**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE CIVIL ENGINEER CENTER**

APR 2 8 2014

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FROM: AFCEC/CIBE - Griffiss
Building 45
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Rome, New York 13441

SUBJECT: Final Site Closure Report, DP013 Building 255 AOC
Former Griffiss Air Force Base, Rome, New York
Contract No. FA8903-10-D-8595, Delivery Order No. 0014
April 2014

1. Enclosed is the "Final Site Closure Report for DP013 Building 255 AOC", for your review and comment.

2. Request concurrence with the recommendation for site closure with unrestricted use at DP013 Building 255 AOC. The draft report was provided on February 11, 2014.

3. During the forty five (45) day Federal Facilities Agreement review period, neither the New York State Department of Environmental Conservation nor the United States Environmental Protection Agency disagreed with the conclusions for site closure with unrestricted use. As required by the Federal Facilities Agreement, a final thirty (30) day review period is being provided for this final document.

4. Request that final concurrence be provided by May 26, 2014.

5. Should you have any questions or concerns please contact me at 315 356 0810 ex 202.



MICHAEL F. MCDERMOTT
Air Force Civil Engineer Center
AFCEC/CIBE - Griffiss

**FINAL**

# SITE CLOSURE REPORT
# LAND USE CONTROL/INSTITUTIONAL CONTROL SITE
# DP013 BUILDING 255 AREA OF CONCERN

## FORMER GRIFFISS AIR FORCE BASE SITE
## ROME, NEW YORK

***Prepared for:***

**Air Force Civil Engineer Center**
**Building 45**
**706 Brooks Road**
**Rome, New York 13441**

***Prepared by:***

**FPM Remediations, Inc.**
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**Contract Number FA8903-10-D-8595/**
**Delivery Order 0014**

**April 2014**

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# LIST OF ACRONYMS

| | |
|---|---|
| ABS | Dermal Absorption Factor |
| AFB | Air Force Base |
| AFCEC | Air Force Civil Engineer Center |
| AOC | Area of Concern |
| ARARs | Applicable or Relevant and Appropriate Requirements |
| ATc | Averaging Time Cancer |
| ATnc | Averaging Time Non-Cancer |
| ATSDR | Agency for Toxic Substances and Disease Registry |
| BW | Body Weight |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| COC | Contaminant of Concern |
| COPC | Chemical of Potential Concern |
| CQCR | Chemical Quality Control Reports |
| CR | Carcinogenic Risk |
| ED | Exposure Duration |
| EF | Exposure Frequency |
| EPC | Exposure Point Concentration |
| ET | Exposure Time |
| ESD | Explanation of Significant Differences |
| FPM | FPM Remediations, Inc. |
| ft bgs | Feet Below Ground Surface |
| HHRA | Human Health Risk Assessment |
| HI | Hazard Index |
| IR | Ingestion Rate |
| IRA | Interim Remedial Action |
| IRIS | Integrated Risk Information System |
| IUR | Inhalation Unit Risk |
| LTM | Long Term Monitoring |
| LUC/IC | Land Use Control/Institutional Control |
| M | Soil to Skin Adherence Factor |
| mg/kg | milligrams per kilograms |
| NFA | No Further Action |
| NYCRR | New York Codes, Rules, and Regulations |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |

# LIST OF ACRONYMS (continued)

| | |
|---|---|
| PCB | Polychlorinated Biphenyls |
| PEF | Particulate Emission Factor |
| ppm | parts per million |
| RfC | Reference Concentration Inhalation |
| RfD | Reference Dose Value |
| RI | Remedial Investigation |
| ROD | Record of Decision |
| SA | Exposed Skin Surface Area |
| SCO | Soil Cleanup Objective |
| SF | Slope Factor |
| SVOC | Semi-Volatile Organic Compound |
| UCL | Upper Confidence Limit |
| UFP QAPP | Uniform Federal Policy Quality Assurance Project Plan |
| USEPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compound |

# 1 INTRODUCTION

FPM Remediations, Inc. (FPM), in association with CAPE, Inc., under contract with the Air Force Civil Engineer Center (AFCEC), conducted site closure activities at the Land Use Control/Institutional Control (LUC/IC) Site DP013 Building 255 Area of Concern (AOC), at the former Griffiss Air Force Base (AFB) in Rome, New York.

## 1.1 Purpose

The Griffiss Local Redevelopment Agency has implemented reuse and redevelopment for the former Griffiss AFB that includes a mixture of commercial, industrial and airport use. The Air Force's initiative to reduce its long-term environmental liabilities and life cycle costs through site closure creates an opportunity to optimize benefits to the local public, the federal government, and the environment. This site is subject to a deed restriction in the form of land use restrictions for non-residential use. An evaluation of the site, including soil sampling, was conducted to determine if residual soil contamination is at levels below the Title 6 - New York Codes, Rules and Regulations (6-NYCRR) Part 375 Residential use Soil Cleanup Objectives (SCOs) [NYSDEC, December 2006] and to obtain site closure with unrestricted reuse at the site.

The site closure activities were conducted in accordance with the Final Site Closure Plan for LUC/IC Sites (CAPE/FPM, March 2013). The Updated 2013 Uniform Federal Policy Quality Assurance Project Plan (UFP QAPP) for Performance Based-Remediation at the Former Griffiss AFB (CAPE/FPM, May 2013) and Health and Safety Plan for Performance Based-Remediation at the Former Griffiss AFB (CAPE/FPM, July 2012) were also used in conjunction with the Site Closure Plan.

# 2 RECORD OF DECISION

The Record of Decision (ROD) for the Building 255 AOC was signed by the Air Force in June 2001 and by the United States Environmental Protection Agency (USEPA) in September 2001. The ROD is provided in Appendix A. Based on the previous investigations and environmental conditions at the site the selected remedy for the Building 255 AOC is no further action (NFA) for soils with LUC/ICs for industrial/commercial use and groundwater use restrictions. However, groundwater use restrictions were removed in spring 2012. The ROD states that:

- The property will be industrial/commercial use unless permission is obtained from the USEPA, New York State Department of Environmental Conservation (NYSDEC), and New York State Department of Health (NYSDOH).

# 3 SITE BACKGROUND

The Building 255 AOC is located in the west-central portion (Parcel F3A) of the former Griffiss AFB. Building 255 was a former vehicle maintenance shop located in the area referred to as Tin City. This building has been demolished. Several suspected drywell locations are associated with the site including several near Building 255 (west and south of building) and other nearby buildings, including Buildings 215/216, 222, and 223 (Figure 1). One drywell west of the former

building and one drywell located south of the former building were removed in 1998. All other drywells associated with the site were not located in previous investigations.

The Remedial Investigation (RI) soil and groundwater sampling conducted in 1994 showed volatile organic compound (VOC), semi-volatile organic compound (SVOC), pesticide, polychlorinated biphenyl (PCB) and metal detections. A risk assessment was conducted for the RI. For human health, contaminants in the soil and groundwater were within the lower end of the acceptable USEPA target risk range for industrial and commercial users (LAW, December 1996).

The soil sampling conducted during the RI included the collection of soil samples from borings positioned within the assumed drywell locations (215SB-1, 216SB-1, 222SB-1, 223SB-1, 230SB-1, 255SB-1, -3, and -5). These borings are illustrated in Figure 1. All samples showed VOC, SVOC, pesticide, PCB and metal detections. When compared to the 6-NYCRR Part 375 Residential use SCOs, all results from borings 216SB-1, 222SB-1, 223SB-1, and 230SB-1 met the residential use SCOs. Metal and/or SVOC concentrations were above the residential use SCOs at the remaining borings. Samples collected at 255SB-3, -5, and 215SB-1 showed total chromium exceedances at 72 parts per million (ppm), 45 ppm and 120 ppm, respectively. SVOCs were exceedances at 255SB-1 and -3. However, all soil boring detections met the 6-NYCRR Part 375 Commercial and Industrial use SCOs.

An Interim Remedial Action (IRA) was performed in 1998 which consisted of asphalt demolition, removal and disposal of the drywell (Drywell 255-1), and soil excavation. The former Drywell 255-1 location is associated with RI soil boring 255SB-5 as shown on Figure 1. Confirmatory sampling conducted in the soil excavation indicated clean-up goals had been met for all contaminants of concern (COCs) excluding chromium as stated in the Closure Certification Report (Ocuto Blacktop and Paving Environmental Services, February 2000). The chromium detection (45 ppm) found in the confirmatory sample collected in the southern wall of the excavation was attributed to background conditions. When compared to the 6-NYCRR Part 375 Residential use SCOs, the concentration was above the SCOs for hexavalent chromium (22 ppm) and trivalent chromium (36 ppm).

An additional drywell, Drywell 255-2, located south of the former building was removed followed by soil excavation in 1998 as part of the Hangar Road extension project. Following removal, the former drywell location was investigated as part of the Expanded Site Investigation and Confirmatory Sampling of Areas of Interest and Drywell/Waste water related Systems (Ecology and Environment, July 1998). Soil samples collected at boring D255-SD01 (Figure 1) showed a total chromium concentration of 43 ppm.

Long-term monitoring (LTM) was conducted at the site from 2001 to 2002 (FPM, August 2003). Groundwater was deemed clean and monitoring ceased at the site in 2002 with regulatory approval. Based on the results from previous sampling and the ROD requirements for the Building 255 AOC, the Air Force submitted an Explanation of Significant Differences (ESD) in 2003 to the USEPA. The document requested the deletion of ROD requirements for the groundwater investigations. The ESD was supported by groundwater monitoring data indicating groundwater Applicable or Relevant and Appropriate Requirements (ARARs) have been met.

The ESD was signed by the USEPA on September 26, 2003 (Air Force, September 2003). The remaining LTM wells at the site were decommissioned in the Round 3 Well Decommissioning event performed in summer/fall 2005 (FPM, January 2006).

A request to remove the groundwater restriction at the site was issued by the Air Force in March 2012. NYSDEC acceptance was provided on April 24, 2012 and USEPA acceptance was provided on May 16, 2012. The NYSDEC acceptance email and USEPA approval letter are provided in Appendix B.

# 4 SITE CLOSURE ACTIVITIES

Site Closure activities included a soil investigation to delineate/confirm the presence of residual soil contamination at the site above 6-NYCRR Part 375 Residential use SCOs. The site closure activities were conducted to obtain site closure with unrestricted reuse at the DP013 Building 255 AOC. Based on the soil investigation results, a human health risk assessment (HHRA) was also conducted. The results of the soil investigation and HHRA are provided below.

## 4.1 Site Investigation

For the purposes of the site investigation, the site was split into four sampling areas based on the previous investigation and removal results. The sampling areas are illustrated in Figures 2 and 3.

Sampling Area 1: This area corresponds with the southern drywell site and previous boring D255-SD01. Nine soil samples were collected from three borings on May 6, 2013 and analyzed for VOCs and metals. Samples were collected from 0 to 4 feet below ground surface (ft bgs), 4 to 8 ft bgs, and 8 to 12 ft bgs intervals at soil boring locations B255SCS-1, -2, and -3 (Figure 2).

Sampling Area 2: This area corresponds with the western drywell site and excavation. Six soil samples were collected from two borings on July 29, 2013 and analyzed for metals. Samples were collected from 0 to 4 ft bgs, 4 to 8 ft bgs, and 8 to 12 ft bgs intervals at soil boring locations B255SCS-7 and -8 (Figure 2). Soil borings B255SCS-7 and -8 were located at the southern wall of the former western drywell excavation.

Sampling Area 3: This area corresponds with the previous borings B255SB-1 and -3. Six soil samples were collected at two borings on July 29, 2013 from the 0 to 4 ft bgs, 4 to 8 ft bgs, and 8 to 12 ft bgs intervals. The soil borings are illustrated on Figure 2. Soil boring B255SCS-9 was positioned at the former 255SB-3 location. Based on the previous investigation results, the three samples collected at B255SCS-9 were analyzed for SVOCs and metals. Soil boring B255SCS-10 was positioned at the former 255SB-1 location. Based on the previous investigation results, the three samples collected at B255SCS-10 were analyzed for SVOCs only.

Sampling Area 4: This area corresponds with the previous boring 215SB-1. Four soil samples were collected at one boring from the 0 to 4 ft bgs, 4 to 8 ft bgs, 8 to 12 ft bgs, and 12 to 16 ft bgs intervals on July 29, 2013. The soil boring, B255SCS-11, is illustrated on Figure 3. Based on the previous investigation results, the samples were analyzed for metals. The additional sampling interval was conducted based on the previous investigation results. Total chromium

was detected above 6-NYCRR Part 375 Residential use SCOs in the 12 to 16 ft bgs interval at 215SB-1 during the RI.

Field screening for visual and olfactory characteristics was conducted prior to sampling at each soil boring location. The results of the soil characterization are provided in the daily chemical quality control reports (CQCRs) in Appendix C.

### 4.2 Site Investigation Sampling Results

Results from the site closure soil sampling showed that all VOC and SVOC concentrations met their respective 6-NYCRR Part 375 Residential use SCOs. In addition, all metals except for chromium met their respective 6-NYCRR Part 375 Residential use SCOs. Elevated chromium concentrations were detected at soil boring locations B255SCS-8 (8 to 12 ft bgs) and B255SCS-11 (12 to 16 ft bgs) at concentrations of 27 milligrams per kilograms (mg/kg) and 24 mg/kg, respectively. The concentrations met the trivalent chromium Residential use SCO of 36 mg/kg but exceeded the hexavalent chromium Residential use SCO of 22 mg/kg. As the chromium detections could not be speciated, the chromium exceedances are based on using the more stringent of the two chromium Residential use SCOs.

Sampling results are presented in Table 1. All field sampling forms are attached in the daily CQCRs in Appendix C. The validated data are attached in Appendix D and the raw lab data are provided in Appendix E.

## 5 HUMAN HEALTH RISK ASSESSMENT

A HHRA was previously conducted for the RI to evaluate potential health risks using an industrial/commercial land use scenario for the site. The RI HHRA results indicated acceptable risks for the identified receptors and pathways (Law, December 1996). A supplemental HHRA was conducted as part of the 2013 site closure activities. This HHRA addressed future residential land use scenario only and used the most recent soil data.

Risk assessment as defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process consists of data evaluation, exposure assessment, toxicity assessment, and risk characterization (USEPA, December 1989). An uncertainty analysis was also completed as part of this risk assessment. The HHRA has been organized as follows:

- Data Evaluation – Ensures that the data are appropriate for use in the HHRA and to identify chemicals of potential concern (COPCs). Chemicals identified as COPCs are the focus of the following components of the risk assessment.
- Exposure Assessment – Identifies potential pathways by which exposure could occur, characterizes the potentially exposed populations (i.e. future residential use) and estimates the magnitude, frequency, and duration of exposures. Results of the assessment are combined with toxicity information to characterize potential risks.
- Toxicity Assessment – Identifies the types of adverse health effects associated with the exposure to the COPCs, lists the available toxicity factors (i.e., reference dose values

[RfDs]), and summarizes the relationship between magnitude of exposure and occurrence of adverse health effects.
- Risk Characterization – Integrates the results of the data evaluation, exposure assessment, and toxicity assessment into quantitative expressions of risk.
- Uncertainty Analysis – Provides an evaluation of the uncertainties that enter the risk assessment at each step of the process in order for regulators, stakeholders, and risk managers to put the risks in proper context.

These components are described briefly in the following sections. Tables prepared in accordance with USEPAs *RAGS, Volume 1, Human Health Evaluation Manual, Part D* were used to screen for COPCs, and to calculate estimated exposures and health risks associated with the COPCs. The tables are summarized in the following sections and presented at the end of the document.

## 5.1 Data Evaluation

The data used in the HHRA consisted of the following:

- Soil samples were collected from the B255 AOC at 8 locations and three or four sampling depths (0 to 4 ft bgs, 4 to 8 ft bgs, 8 to 12 ft bgs and 12 to 16 ft bgs). Four sampling depths only occurred at location B255SCS-11. Samples were analyzed by a Department of Defense Environmental Laboratory Accreditation Program certified laboratory.

Chemical analyses were performed in accordance with USEPA methods for VOCs (SW8260B), SVOCs (SW8270C), and metals (SW6010C). The analytical results were evaluated to assess data usability and laboratory compliance with the analytical methods. The analytical data were reviewed, validated, and evaluated using the criteria specified in the UFP QAPP (FPM, May 2013). The data validation reports are located in Appendix D. All "J" qualified detections (estimated values) were considered as detected concentrations for this HHRA. All undetected results, at the limit of detection (indicated with a "U" qualifier) were retained in the HHRA dataset.

The data evaluation included the calculation of statistics for each dataset evaluated in the HHRA. Basic statistics included frequency of detection, range of positive detections, arithmetic mean, and the most appropriate 95% upper confidence limit (UCL) of the mean. Statistics depended on the data distribution and the skewness, as predicted by USEPA Technical Support Center ProUCL Version 5.0 (USEPA, September 2013a) [results are located in Appendix F]. These statistics were also used in the determination of the exposure point concentration (EPC) selected in the exposure assessment.

### 5.1.1 Chemicals of Potential Concern

The purpose of the screening process is to eliminate chemicals for which no further risk evaluation is needed. COPCs for the HHRA are limited to those chemicals that exceed a selection criterion. For this risk assessment, SCOs and background screening values were used to reduce the number of chemicals and exposure routes considered. The background screening

values used to eliminate COPC were collected from the statewide rural surface soil survey conducted by NYSDOH and NYSDEC (August 2005). The department did not establish a background screening value for chromium (VI) because hexavalent chromium is not a commonly occurring natural form. The premise of this screening step is that risk is typically dominated by a few chemicals and that, although several may actually be detected, the concentration of these chemicals do not contribute to the total risk.

Environmental sampling results were compared to the SCOs and background screening values. The SCO levels represent a risk level of 1 x $10^{-6}$ for carcinogenic effects (i.e., a one-in-one-million excess chance of developing cancer over a lifetime) and a Hazard Index (HI) of 1.0 for non-carcinogenic effects (i.e., adverse non-carcinogenic health effects are not anticipated at or below this exposure concentration). If screening levels exist for a chemical for both carcinogenic and non-carcinogenic effects, the lower of the two values is used as the COPC selection criteria.

Chemicals that were not detected at concentrations exceeding the SCOs and background screening values were not retained as COPCs. Table 2 provides the summary of COPCs for the HHRA. The only detected analyte that is considered a COPC is chromium.

## 5.2 Exposure Assessment

The exposure assessment defines and evaluates the current and potential future exposures experienced by receptor populations. More specifically, an exposure assessment identifies the pathways by which humans are potentially exposed to COPCs, the magnitude of the potential human exposure, and the frequency and duration of exposure. This process involves several steps:

- Characterization of the exposure setting in terms of physical characteristics and the populations that may potentially be exposed to site-related chemicals.
- Identification of potential exposure pathways and receptors.
- Quantification of exposure for each receptor in terms of the amount of chemical that is ingested, inhaled, or absorbed through the skin from all potentially complete exposure pathways.

### 5.2.1 Characterization of Exposure Setting

The Building 255 AOC is located on relatively flat-lying terrain with less than a foot of relief in the west-central portion of the former base. The demolished building was located in an area of low industrial activity which was informally referred to as “Tin City”. The Building 255 AOC is outside the border of the Griffiss International Airport fencing and controls, therefore access is not restricted to the site. Currently the site is maintained for commercial businesses with open grassy areas. Future use of the Building 255 AOC is anticipated to be consistent with current commercial use. However, hypothetical residential development is evaluated.

Human receptors are identified based on hypothetical future land uses and include potential residents. The current land use scenario of industrial/commercial occupational use was adequately assessed during the RI HHRA (Law, December 1996).

### 5.2.2 Contaminants Pathway Analysis

Exposure describes ways that receptors come into contact with a source. Environmental contaminants, such as pesticides, often undergo various processes (i.e., migration) such that media other than the source area can become contaminated. Therefore, all potentially contaminated media (exposure media) were considered at the site.

Vertical soil profiling results indicated that the chromium contamination appears to exist from 8 to 16 ft bgs. The appropriate human receptors to soil exposure were selected for the Building 255 AOC. Human receptors considered for the evaluation included potential residents. A contaminants pathway analysis for the Building 255 AOC is provided in Figure 4. The primary complete exposure pathway for human receptors is ingestion, dermal contact or inhalation during intrusive activities. Surface soil was not evaluated due to the method of sample collection using direct push soil borings from 0 to 4 ft bgs, 4 to 8 ft bgs, 8 to 12 ft bgs and 12 to 16 ft bgs. For the inhalation pathway, chromium is likely to be stuck to particles or dust.

No pathway currently exists for drinking water, since all drinking water is supplied by municipal utilities from off-site. In addition, no pathway exists for subsurface soil to groundwater via infiltration due to the results of the LTM conducted at the site from 2001 to 2002. Groundwater was deemed clean and monitoring ceased at the site in 2002. The pathway between surface water/sediment runoff is considered incomplete since the site has less than a foot of relief and is covered with grass providing sufficient erosion control. The bioaccumulation pathway through vegetation, domestic animals and game/fish/prey to potential residents is also considered incomplete.

### 5.2.3 Quantification of Exposure

Data statistics were used during chromium EPC determination. Data statistics were derived from the USEPA Technical Support Center ProUCL Version 5.0 (USEPA, September 2013a) [results are located in Appendix F]. The most appropriate 95% UCL of the mean was retained as the EPC. This calculated EPC provides a reasonable maximum exposure scenario as an upper bound estimate of risks to individuals in the population. Data statistics were calculated for all soil samples collected from 8 locations at the Building 255 AOC. The EPC was calculated for the total range of depths. Even though the chromium exceedances only occurred from 8 to 16 ft bgs, including the total range of depths creates a larger population size and more accurate data statistics. Also, all range of depths had detections for chromium.

For the primary exposure pathway of ingestion and the contaminant chromium, the calculated EPC is the 95% Student's-t UCL of the mean at 14.32 mg/kg. For the primary exposure pathway of dermal, the EPC for the ingestion pathway was multiplied by the dermal absorption factor (ABS). The ABS for chromium (III) is 1.3% and the ABS for chromium (VI) is 2.5% as referenced from chapter 4 in the USEPA Risk Assessment Guidance for Superfund (Part E,

Supplemental Guidance for Dermal Risk Assessment) (USEPA, July 2004). The more conservative ABS value of 2.5% was used to calculate dermal EPC. Lastly, for the primary exposure pathway of inhalation, the EPC for the ingestion pathway was divided by the particulate emissions factor (PEF). The PEF is 1.36 x $10^{-9}$ $m^3$/kg as referenced from the Wind Erosion Model (Cowherd, 1985).

All HHRA assumptions for frequency and duration of exposure are located in Table 3 and are referenced from the Exposure Factors Handbook: 2011 Edition (USEPA, September 2011).

## 5.3 Toxicity Assessment

Toxicity assessment defines the relationship between the magnitude of exposure and possible severity of adverse health effects, and weighs the quality of available toxicological evidence. In general, chromium (VI) compounds are more toxic than chromium (III) compounds. The most sensitive targets of chromium (VI) are the respiratory, gastrointestinal, hematological and reproductive system. The primary targets for chromium (III) are the respiratory and immunological systems. Chromium allergic dermatitis is typically elicited by dermal contact in sensitized individuals (ATSDR, October 2012).

Reference toxicity values were obtained from the Integrated Risk Information System (IRIS) database (USEPA, updated monthly). Values in this database have been derived by expert toxicologists at USEPA and most values have undergone thorough review and validation both within and outside USEPA. Table 4 lists the toxicity values for chromium. The toxicity value for slope factor (SF) oral and dermal was not available through the IRIS database. Therefore, a tiered approach was used to reference other databases including tier 2 USEPA's provisional peer reviewed toxicity values and tier 3 California EPA, Agency for Toxic Substances and Disease Registry (ATSDR) and USEPA's Health Effects Assessment Summary Table (USEPA, December 2003). None of these databases provided a SF.

Under the previous USEPA guidelines (USEPA, September 1986), chromium (VI) was classified as a Group A - known human carcinogen by the inhalation route of exposure. Carcinogenicity by the oral and dermal routes of exposure could not be determined and was classified as Group D – not classifiable as to human carcinogenicity. Also, chromium (III) was most appropriately designated as Group D for all routes of exposure. Chromium data for carcinogenicity assessment for lifetime exposure has not been updated under the current USEPA guidelines (USEPA, March 2005).

## 5.4 Risk Characterization

Risk characterization combines the results of the previous elements of the risk assessment to evaluate the potential health risks associated with exposure to COPCs. The risk characterization is then used as an integral component in remedial decision making and selection of potential remedies or actions. Table 5 references the HHRA Equations and Models used for the risk characterization (USEPA, December 2002, July 2004, January 2009), Tables 6 through 8 apply the HHRA Equations and Models based on identified pathways and receptors and Table 9 summarizes the cancer risks and non-cancer hazard indices. For the purpose of this risk

assessment, it was assumed that the EPC of chromium existed only for the more toxic chromium (VI) compound. This assumption develops the most conservative risk approach.

### 5.4.1 Non-carcinogenic Health Effects Characterization

The USEPA benchmark level for evaluating non-carcinogenic effects is a HI of 1.0. A HI of 1.0 or less indicates that exposure to potential contaminants is not expected to result in adverse non-carcinogenic health effects.

The cumulative HI for potential residents, including adult residents and child residents, exposed to soil at a depth of 0 to 16 ft bgs at the Building 255 AOC is 0.072 (Table 9). This cumulative HI is below the benchmark value of 1.0. Of the three potential exposure pathways, the greatest potential non-carcinogenic hazard (0.068) was from the incidental ingestion of soil (Tables 6 through 8).

### 5.4.2 Carcinogenic Risk

The USEPA defines the target risk range for exposure to carcinogenic compounds as an excess upper bound lifetime risk within the range $1 \times 10^{-4}$ to $10^{-6}$. This translates to one excess cancer in a population of ten thousand to one excess cancer in a population of one million.

The cumulative carcinogenic risk (CR) associated with exposure by potential residents, including adult residents and child residents, to soil at a depth of 0 to 16 ft bgs at the Building 255 AOC is $2.6 \times 10^{-14}$ (Table 9), less than the USEPA's target risk range. The CR only accounts for the pathway-specific risk for potential residents from fugitive dust (Table 8). Chromium has not been identified as a carcinogen for the oral and dermal pathways.

## 5.5 Uncertainty Analysis

This section presents a brief summary of uncertainties inherent to risk assessments and includes a discussion of how they may affect the quantitative risk estimates and conclusions of the risk analysis. This HHRA was performed in accordance with current USEPA guidance; however, there are varying degrees of uncertainty associated with the HHRA.

Once the risk assessment is completed, the results must be reviewed and evaluated to identify the type and magnitude of uncertainty involved. Reliance on results from a risk assessment without consideration of uncertainties, limitations, and assumptions inherent in the process can be misleading.

Uncertainty in the selection of COPCs is related to the current status of the predictive databases, the grouping of samples, and the procedures used to include or exclude constituents as COPCs. Uncertainty associated with the exposure assessment includes the values used as input variables for a given intake route/scenario, the assumptions made to determine EPCs, and the predictions regarding future land use and population characteristics. Uncertainty in the toxicity assessment includes the quality of the existing toxicity data needed to support dose-response relationships and the weight-of-evidence used for determining the carcinogenicity of COPCs. Uncertainty in

the risk characterization includes the cumulative uncertainty from combining conservative assumptions made in earlier steps of the risk assessment process.

In general, assumptions, which are often based (in part) on safety factors, are made so that the final calculated risks are overestimated.

### 5.5.1 Uncertainty Associated with Data Evaluation

The following issues may contribute to uncertainty in COPC selection:

- Data collection and evaluation;
- The existing database; and
- The screening levels used.

#### 5.5.1.1 Data Collection and Evaluation

The analytical data used in this HHRA was soils data from investigation areas at the Building 255 AOC. These data are subject to uncertainty associated with sampling and analyses and subsequent evaluation.

In this HHRA, it was assumed that samples collected were representative of the area to which various populations may be exposed. The systematic characterization of the investigation areas focused on supplying the data needed to support the risk assessment and remediation decision making process. However, the collected samples may not be completely representative due to biases in sampling and to random variability of samples. Soils are not homogeneously distributed in the environment. While random variability of the media sampled could result in either an over- or under-estimation of site-related chemical concentrations, and thus, site risks, the use of biased data is more likely to over-estimate than under-estimate risks.

#### 5.5.1.2 Existing Databases

Samples were analyzed using Air Force-approved procedures and were subject to data validation procedures to assure that data were suitable for use in decision making. However, sample analyses are subject to uncertainties with precision and accuracy. Uncertainties associated with precision and accuracy of analytical methods are generally random. While these sources of error are typically of low magnitude compared to other sources of uncertainty, they may contribute to an over- or under-estimation of risks. Given that data validation efforts were performed on the data used to support this HHRA in accordance with Air Force and USEPA approved documents then the data used in this risk assessment is of acceptable quality as detailed in Appendix D.

Of the qualified data, many were either "U" qualified, indicating the analyte was undetected at the limit of detection, or "J" qualified, indicating that the analyte was positively identified, but the quantitation is an estimation. All chemical data used in this HHRA were reviewed by a qualified chemist. All data used in this HHRA were found to be of acceptable quality for use in this risk assessment; as such, both "J" and "U" qualified data were used. While there is some uncertainty as to whether these values over- or under-estimate actual concentrations, it is unlikely that any of these reported values greatly exceeded the actual values.

Analytes that were undetected at the limit of detection ("U" qualified) in all samples, and chemicals that were only detected at concentrations below their respective SCOs, were not retained as COPCs. While it is unlikely that major contaminants have been excluded on this basis, exclusion of these undetected chemicals or chemicals with elevated reporting limits could result in an underestimation of risk.

#### 5.5.1.3 Chemicals of Potential Concern Screening Levels

The use of risk-based screening values should ensure that the significant contributors to risk from a site are not eliminated but are retained for risk evaluation. COPC screening values were based on conservative land use scenarios (e.g., residential).

In addition, the toxicity values used in the derivation of project action levels are subject to change, as additional information (e.g., from scientific research) becomes available; these periodic changes in toxicity values may cause the project action levels to change as well.

### 5.5.2 Uncertainty Associated with Exposure Assessment

Uncertainty in the exposure assessment arises because of the methods used to calculate EPCs and the selection of exposure parameters.

#### 5.5.2.1 Exposure Parameters

Selected exposure parameters are generally designed to be conservative so that no actual exposed population will receive greater exposures than those estimated. Exposure parameters were used to encompass the upper and best estimate levels of reasonable maximum exposures. All pathways that could reasonably be completed under the land use scenarios were evaluated quantitatively for their potential to be associated with adverse health effects. There is a high degree of certainty that total exposures are not underestimated for any actual exposed population.

To demonstrate risks associated with residential land use, hypothetical future residents (adult and child) were considered in this HHRA to conservatively evaluate the site. The exposure scenario was developed to describe plausible frequency and duration of exposures for a future resident adult and child.

### 5.5.3 Uncertainty Associated with Toxicity Assessment

In general, the available scientific information is insufficient to provide a thorough understanding of all the potential toxic properties of chemicals to which humans may be exposed. Consequently, varying degrees of uncertainty surround the assessment of adverse health effects in the exposed populations. Sources of uncertainty related directly to toxicity data include:

- Use of dose-response data from experiments on homogeneous sensitive animal populations to predict effects in heterogeneous human populations with a wide range of sensitivities.
- Extrapolation of data from high dose animal studies to low dose human exposures; acute or sub-chronic toxicity studies to chronic exposure scenarios; and one exposure route to another (e.g., from ingestion to dermal absorption).
- Use of single-chemical test data that do not account for multiple exposures or synergistic and antagonistic responses.
- Toxicity values (reference doses and slope factors) are predicted values and have incorporated factors to provide a margin of safety for even the most sensitive subpopulations and likely over-estimate potential risks for all receptors evaluated in this risk assessment.

Based on the above, a high degree of uncertainty may be associated with the toxicity values used in this risk assessment. In an attempt to minimize the consequences of uncertainty, USEPA typically relies on a conservative approach in determining toxicity values. The current USEPA toxicity values used in this risk assessment are likely to over-estimate the potential risk and hazard.

### 5.5.4 Uncertainty in Risk Characterization

Uncertainties associated with risk characterization include the assumption of chemical additively and the basis that the contamination level is consistent over the lifetime of exposure. These uncertainties are inherent in any inferential risk assessment. USEPA-promulgated inputs to the quantitative risk assessment and toxicological indices are calculated to be protective of the human receptor and to err conservatively, so as not to underestimate the potential human health risks.

## 6 CONCLUSION

In previous investigations, two drywells associated with Building 255 were removed followed by soil excavation to reduce residual COCs in site soils. Additional drywells associated with the site were not identified or located in these investigations. However, previous investigations including soil sampling within the suspected drywell locations showed that COCs were below the 6-NYCRR Part 375 Residential use SCOs in all but four areas. In 2013, an additional site investigation was conducted to determine the presence of residual contamination in those four areas. The results showed that all SVOCs and VOCs were below the 6-NYCRR Part 375 Residential use SCOs. In addition, all metals, excluding chromium, were detected below the 6-NYCRR Part 375 Residential use SCOs. The total chromium detections in two soil samples were within an order of magnitude above the hexavalent chromium Residential use SCO but below the trivalent chromium Residential use SCO.

An HHRA was conducted to evaluate potential adverse health effects due to these exceedances. Under hypothetical future residential land use, residential receptors (adult and child) were considered. The exposure pathways evaluated included incidental ingestion of soil, dermal contact with soil, and inhalation of fugitive dusts. The cumulative HI for residents exposed to

subsurface soils was less than 1.0, indicating that exposure to potential contaminants is not expected to result in adverse non-carcinogenic health effects. The cumulative CR for residents exposed to subsurface soils was less than USEPA's target risk range.

# 7 RECOMMENDATIONS

The results of the site closure activities conducted at the Building 255 AOC show few exceedances of 6-NYCRR Part 375 Residential use SCOs for chemical constituents detected in subsurface soil. Based on these findings, the results of the previous RI (Law, December 1996), IRA (Ocuto, February 2000) and the results of this residential HHRA, there appear to be no unacceptable non-carcinogenic and carcinogenic risk from exposure to soil for potential residential receptors. Therefore, it is requested that New York State and USEPA grant permission to remove the remaining deed restrictions at the DP013 Building 255 AOC.

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# Tables

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**Table 1**
**DP013 Building 255 AOC**
**2013 Site Investigation Results (Metals)**

| Sample Location | NYCRR Part 375 Residential use Soil Cleanup Objectives (mg/Kg) | B255SCS-1 | | | B255SCS-2 | | |
|---|---|---|---|---|---|---|---|
| Sample ID | | B255SCS0104AA | B255SCS0108AA | B255SCS0112AA | B255SCS0204AA | B255SCS0208AA | B255SCS0212AA |
| Date of Collection | | 5/6/2013 | 5/6/2013 | 5/6/2013 | 5/6/2013 | 5/6/2013 | 5/6/2013 |
| Sample Depth (ft bgs) | | 0-4 | 4-8 | 8-12 | 0-4 | 4-8 | 8-12 |
| **Metals (mg/Kg)** | | | | | | | |
| **aluminum** | NA | 9800 ♦ | 11,000 | 10,000 | 8,400 | 11,000 | 9,000 |
| **antimony** | NA | U | U | U | U | U | U |
| **arsenic** | 16 | 4.8 | 4 | 3.9 | 5.5 | 3.3 | 3.4 |
| **barium** | 350 | 46 | 86 | 48 | 34 | 66 | 37 |
| **berylium** | 14 | 0.41 J | 0.41 J | 0.49 J | 0.46 J | 0.39 J | 0.39 J |
| **boron - total** | NA | 1.7 J ♦ | 1.2 J | 1.7 J | 2.5 J | 1.8 J | 1.8 J |
| **cadmium** | 2.5 | 0.18 J | 0.23 J | 0.15 J | 0.23 J | 0.31 J | 0.13 J |
| **calcium** | NA | 7,300 | 3,700 | 2,400 | 6,800 | 5,400 | 2,000 |
| **chromium - total** | **22/36*** | 11 ♦ | 13.0 | 15.0 | 11.0 | 12.0 | 12.0 |
| **cobalt** | NA | 7.6 | 6.2 | 6.9 | 7.1 | 6.7 | 5.8 |
| **copper** | 270 | 33.0 | 15 | 29 | 27 | 19 | 27 |
| **iron** | NA | 21,000 | 21,000 | 20,000 | 17,000 | 17,000 | 18,000 |
| **lead** | 400 | 9.4 ♦ | 9.4 | 5.6 | 19 | 14 | 5.7 |
| **magnesium** | NA | 3,700 | 2,200 | 3,900 | 4,100 | 3,300 | 3,700 |
| **manganese** | 2000 | 1300 | 1500 | 1000 | 700 | 950 | 960 |
| **molybdenum** | NA | 0.29 J | 1 J | 1 J | 0.32 J | 0.49 J | 0.63 J |
| **nickel** | 140 | 18 | 11 | 16 | 16 | 12 | 14 |
| **potassium** | NA | 990 | 850 | 1,200 | 1,300 | 990 | 1,100 |
| **selenium** | 36 | U | U | U | U | U | U |
| **silver** | 36 | U | 0.19 J | U | U | U | U |
| **sodium** | NA | U | 170 J | 93 J | U | U | U |
| **strontium** | NA | U | U | U | U | U | U |
| **thallium** | NA | U | U | U | U | U | U |
| **vanadium** | NA | 17 ♦ | 24 | 17 | 17 | 21 | 16 |
| **zinc** | 2200 | 48 ♦ | 52 | 50 | 50 | 58 | 48 |

Notes:
- Exceedance of the 6-NYCRR Part 375 Residential use Soil Cleanup Objectives.
U- Undetected at the Limit of Detection.
J- Estimated: The analyte was positively identfied; the quantitation is an estimation.
NS- Not sampled.
♦- Denotes higher nominal value of duplicate sample result.
*- hexavalent/trivalent
NA- Not available.

**Table 1**
**DP013 Building 255 AOC**
**2013 Site Investigation Results (Metals)**

| Sample Location | NYCRR Part 375 Residential use Soil Cleanup Objectives (mg/Kg) | B255SCS-3 | | | B255SCS-7 | | |
|---|---|---|---|---|---|---|---|
| Sample ID | | B255SCS0304AA | B255SCS0308AA | B255SCS0312AA | B255SCS0704AA | B255SCS0708AA | B255SCS0712AA |
| Date of Collection | | 5/6/2013 | 5/6/2013 | 5/6/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 |
| Sample Depth (ft bgs) | | 0-4 | 4-8 | 8-12 | 0-4 | 4-8 | 8-12 |
| **Metals (mg/Kg)** | | | | | | | |
| **aluminum** | NA | 7,600 | 12,000 | 9,000 | 3,700 | 7,800 | 6,100 |
| **antimony** | NA | U | U | U | U | U | U |
| **arsenic** | 16 | 3.9 | 4.1 | 3.9 | 2.4 J | 5.3 | 4.1 |
| **barium** | 350 | 51 | 35 | 38 | 12 | 34 | 24 |
| **berylium** | 14 | 0.37 J | 0.48 J | 0.39 J | 0.17 J | 0.44 J | 0.37 J |
| **boron - total** | NA | 3 J | 1.8 J | 2.1 J | 1.4 J | 1.6 J | 1.8 J |
| **cadmium** | 2.5 | 0.25 J | 0.2 J | 0.12 J | 0.083 J | 0.17 J | 0.14 J |
| **calcium** | NA | 10,000 | 8,500 | 9,000 | 2000 ♦ | 2,300 | 2,900 |
| **chromium - total** | **22/36*** | 12 | 15 | 12 | 4.2 | 10 | 8.3 |
| **cobalt** | NA | 5.9 | 6.9 | 6.5 | 3.2 | 5.1 | 4.7 |
| **copper** | 270 | 25 | 29 | 34 | 8.5 | 36 | 23 |
| **iron** | NA | 14,000 | 21,000 | 18,000 | 7,200 | 19,000 | 15,000 |
| **lead** | 400 | 36 | 6.9 | 6.1 | 2.2 | 5.5 | 4.7 |
| **magnesium** | NA | 3,100 | 4,500 | 4,200 | 1,700 | 2,700 | 2,600 |
| **manganese** | 2000 | 570 | 900 | 850 | 270 | 1,500 | 670 |
| **molybdenum** | NA | U | 0.8 J | 0.6 J | U | 1 J | 0.27 J |
| **nickel** | 140 | 13 | 19 | 15 | 6.4 | 13 | 9.9 |
| **potassium** | NA | 1,100 | 1,100 | 1,100 | 540 | 660 | 710 |
| **selenium** | 36 | U | U | U | U | U | U |
| **silver** | 36 | U | U | U | U | U | U |
| **sodium** | NA | 62 J | U | U | U | U | U |
| **strontium** | NA | U | U | U | 5.6 | 9.4 | 10 |
| **thallium** | NA | U | U | U | U | U | U |
| **vanadium** | NA | 16 | 20 | 16 | 6.7 | 16 | U |
| **zinc** | 2200 | 54 | 54 | 47 | 15 | 40 | 40 |

Notes:
- Exceedance of the 6-NYCRR Part 375 Residential use Soil Cleanup Objectives.
U- Undetected at the Limit of Detection.
J- Estimated: The analyte was positively identfied; the quantitation is an estimation.
NS- Not sampled.
♦- Denotes higher nominal value of duplicate sample result.
*- hexavalent/trivalent
NA- Not available.

**Table 1**
**DP013 Building 255 AOC**
**2013 Site Investigation Results (Metals)**

| Sample Location | NYCRR Part 375 Residential use Soil Cleanup Objectives (mg/Kg) | B255SCS-8 | | | B255SCS-9 | | |
|---|---|---|---|---|---|---|---|
| Sample ID | | B255SCS0804AA | B255SCS0808AA | B255SCS0812AA | B255SCS0904AA | B255SCS0908AA | B255SCS0912AA |
| Date of Collection | | 7/29/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 |
| Sample Depth (ft bgs) | | 0-4 | 4-8 | 8-12 | 0-4 | 4-8 | 8-12 |
| **Metals (mg/Kg)** | | | | | | | |
| **aluminum** | NA | 5,700 | 3,300 | 5,900 | 7,800 | 12,000 | U |
| **antimony** | NA | U | U | U | U | U | U |
| **arsenic** | 16 | 2.7 | 1.9 J | 5.1 | 5.2 | 4.6 | 4.5 |
| **barium** | 350 | 23 | 11 | 29 | 35 | 68 | 42 |
| **berylium** | 14 | 0.26 J | 0.15 J | 0.3 J | 0.35 J | 0.48 J | 0.42 J |
| **boron - total** | NA | 1.8 J | 1.3 J | 2 J | 2.2 J | 2..1 J | 1.5 J |
| **cadmium** | 2.5 | 0.14 J | 0.069 J | 1 | 0.76 | 0.52 J | 0.19 J |
| **calcium** | NA | 2,700 | 810 | 2,000 | 18,000 | 3,500 | 5,200 |
| **chromium - total** | **22/36*** | 7 | 3.9 | **27** | 11 | 13 | 11 |
| **cobalt** | NA | 4.1 | 2.7 | 5.4 | 6 | 6.7 | 5.3 |
| **copper** | 270 | 13 | 8 | 41 | 33 | 23 | 47 |
| **iron** | NA | 11,000 | 7,200 | 14,000 | 18,000 | 22,000 | 25,000 |
| **lead** | 400 | 14 | 1.5 | 140 | 39 | 16 | 5.5 |
| **magnesium** | NA | 2,200 | 1,500 | 2,500 | 3,500 | 2,800 | 3,200 |
| **manganese** | 2000 | 380 | 240 | 370 | 860 | 1,400 | 1,300 |
| **molybdenum** | NA | U | U | 0.52 J | 0.32 J | 0.68 J | 0.34 J |
| **nickel** | 140 | 9.1 | 5.8 | 11 | 13 | 14 | 13 |
| **potassium** | NA | 720 | 510 | 720 | 810 | 780 | 860 J |
| **selenium** | 36 | U | U | U | U | U | U |
| **silver** | 36 | U | U | U | U | U | U |
| **sodium** | NA | U | U | U | U | 560 J | U |
| **strontium** | NA | 6.3 | 2.9 | 4.1 | 41 | 40 | 10 |
| **thallium** | NA | U | U | U | U | U | U |
| **vanadium** | NA | 12 | 5.9 | 11 | 19 | 24 | 17 |
| **zinc** | 2200 | 33 | 14 | 160 | 57 | 68 | 45 |

Notes:
- Exceedance of the 6-NYCRR Part 375 Residential use Soil Cleanup Objectives.
U- Undetected at the Limit of Detection.
J- Estimated: The analyte was positively identfied; the quantitation is an estimation.
NS- Not sampled.
♦- Denotes higher nominal value of duplicate sample result.
*- hexavalent/trivalent
NA- Not available.

**Table 1**
**DP013 Building 255 AOC**
**2013 Site Investigation Results (Metals)**

| Sample Location | NYCRR Part 375 Residential use Soil Cleanup Objectives (mg/Kg) | B255SCS-10 | | | B255SCS-11 | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | | B255SCS1004AA | B255SCS1008AA | B255SCS1012AA | B255SCS1104AA | B255SCS1108AA | B255SCS1112AA | B255SCS1116AA |
| Date of Collection | | 7/29/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 |
| Sample Depth (ft bgs) | | 0-4 | 4-8 | 8-12 | 0-4 | 4-8 | 8-12 | 12-16 |
| **Metals (mg/Kg)** | | | | | | | | |
| **aluminum** | NA | NS | NS | NS | 6,900 | 9,100 | 8,700 | 8,300 |
| **antimony** | NA | NS | NS | NS | U | U | U | U |
| **arsenic** | 16 | NS | NS | NS | 3.5 | 5.4 | 5.3 | 4.8 |
| **barium** | 350 | NS | NS | NS | 23 | 47 | 43 | 39 |
| **berylium** | 14 | NS | NS | NS | 0.23 J | 0.47 J | 0.38 J | 0.36 J |
| **boron - total** | NA | NS | NS | NS | 1.8 J | 2.9 J | 2.1 J | 1.9 J |
| **cadmium** | 2.5 | NS | NS | NS | 0.22 J | 0.44 J | 0.2 J | 0.21 J |
| **calcium** | NA | NS | NS | NS | 1,800 | 8,400 | 2,500 | 6,500 |
| **chromium - total** | **22/36*** | NS | NS | NS | 8.5 | 17 | 14 | **24** |
| **cobalt** | NA | NS | NS | NS | 5.3 | 7.6 | 7.5 | 6.7 |
| **copper** | 270 | NS | NS | NS | 29 | 63 | 62 | 35 |
| **iron** | NA | NS | NS | NS | 16,000 | 20,000 | 22,000 | 20,000 |
| **lead** | 400 | NS | NS | NS | 8.7 | 18 | 5.8 | 7.1 |
| **magnesium** | NA | NS | NS | NS | 2,800 | 4,000 | 3,900 | 4,000 |
| **manganese** | 2000 | NS | NS | NS | 510 | 620 | 1,500 | 1,300 |
| **molybdenum** | NA | NS | NS | NS | 0.4 J | 0.91 J | 0.6 J | 0.76 J |
| **nickel** | 140 | NS | NS | NS | 13 | 18 | 15 | 15 |
| **potassium** | NA | NS | NS | NS | 830 | 1,100 | 930 | 880 |
| **selenium** | 36 | NS | NS | NS | U | U | U | U |
| **silver** | 36 | NS | NS | NS | U | U | U | U |
| **sodium** | NA | NS | NS | NS | 70 J | U | U | U |
| **strontium** | NA | NS | NS | NS | 5.6 | 32 | 7.6 | 15 |
| **thallium** | NA | NS | NS | NS | U | U | U | U |
| **vanadium** | NA | NS | NS | NS | 14 | 16 | 16 | 16 |
| **zinc** | 2200 | NS | NS | NS | 46 | 67 | 86 | 50 |

Notes:
- Exceedance of the 6-NYCRR Part 375 Residential use Soil Cleanup Objectives.
U- Undetected at the Limit of Detection.
J- Estimated: The analyte was positively identfied; the quantitation is an estimation.
NS- Not sampled.
♦- Denotes higher nominal value of duplicate sample result.
*- hexavalent/trivalent
NA- Not available.

**Table 1**
**DP013 Building 255 AOC**
**2013 Site Investigation Results (VOCs and SVOCs)**

| Sample Location | NYCRR Part 375 Residential use Soil Cleanup Objectives (µg/Kg) | B255SCS-1 | | | B255SCS-2 | | |
|---|---|---|---|---|---|---|---|
| Sample ID | | B255SCS0104AA | B255SCS0108AA | B255SCS0112AA | B255SCS0204AA | B255SCS0208AA | B255SCS0212AA |
| Date of Collection | | 5/7/2013 | 5/7/2013 | 5/7/2013 | 5/7/2013 | 5/7/2013 | 5/7/2013 |
| Sample Depth (ft bgs) | | 0-4 | 4-8 | 8-12 | 0-4 | 4-8 | 8-12 |
| **VOCs (µg/Kg)** | | | | | | | |
| methylene chloride | 51,000 | 4.4 J | 3.8 J | 3.7 J | 4.2 J | 4.7 J | 4.4 J |
| **SVOCs (µg/Kg)** | | | | | | | |
| acenaphthene | 100,000 | NS | NS | NS | NS | NS | NS |
| acenaphthylene | 100,000 | NS | NS | NS | NS | NS | NS |
| anthracene | 100,000 | NS | NS | NS | NS | NS | NS |
| benzo(a)anthracene | 1,000 | NS | NS | NS | NS | NS | NS |
| benzo(a)pyrene | 1,000 | NS | NS | NS | NS | NS | NS |
| benzo(b)fluoranthene | 1,000 | NS | NS | NS | NS | NS | NS |
| benzo(g,h,i)perylene | 1,000 | NS | NS | NS | NS | NS | NS |
| benzo(k)fluoranthene | NA | NS | NS | NS | NS | NS | NS |
| bis(2-ethylhexyl)phthalene | NA | NS | NS | NS | NS | NS | NS |
| chrysene | 1,000 | NS | NS | NS | NS | NS | NS |
| dibenz(a,h)anthracene | NA | NS | NS | NS | NS | NS | NS |
| dimethyl phthalate | NA | NS | NS | NS | NS | NS | NS |
| fluoranthene | 100,000 | NS | NS | NS | NS | NS | NS |
| flourene | NA | NS | NS | NS | NS | NS | NS |
| indeno(1,2,3-c,d)pyrene | 500 | NS | NS | NS | NS | NS | NS |
| phenanthrene | 100,000 | NS | NS | NS | NS | NS | NS |
| pyrene | 100,000 | NS | NS | NS | NS | NS | NS |

Notes:
U- Undetected at the Limit of Detection.
J- Estimated: The analyte was positively identfied; the quantitation is an estimation.
NS- Not sampled.
♦- Denotes higher nominal value of duplicate sample result.
NA- Not available.

**Table 1**
**DP013 Building 255 AOC**
**2013 Site Investigation Results (VOCs and SVOCs)**

| Sample Location | NYCRR Part 375 Residential use Soil Cleanup Objectives (µg/Kg) | B255SCS-3 | | | B255SCS-9 | | |
|---|---|---|---|---|---|---|---|
| Sample ID | | B255SCS0304AA | B255SCS0308AA | B255SCS0312AA | B255SCS0904AA | B255SCS0908AA | B255SCS0912AA |
| Date of Collection | | 5/7/2013 | 5/7/2013 | 5/7/2013 | 7/29/2013 | 7/29/2013 | 7/29/2013 |
| Sample Depth (ft bgs) | | 0-4 | 4-8 | 8-12 | 0-4 | 4-8 | 8-12 |
| **VOCs (µg/Kg)** | | | | | | | |
| methylene chloride | 51,000 | 3.5 J | 4.1 J | 4.1 J | NS | NS | NS |
| **SVOCs (µg/Kg)** | | | | | | | |
| acenaphthene | 100,000 | NS | NS | NS | U | U | U |
| acenaphthylene | 100,000 | NS | NS | NS | 110 J | 31 J | U |
| anthracene | 100,000 | NS | NS | NS | 160 J | U | U |
| benzo(a)anthracene | 1,000 | NS | NS | NS | 530 J | 51 J | U |
| benzo(a)pyrene | 1,000 | NS | NS | NS | 430 J | 62 J | U |
| benzo(b)fluoranthene | 1,000 | NS | NS | NS | 680 J | 89 J | U |
| benzo(g,h,i)perylene | 1,000 | NS | NS | NS | 250 J | 55 J | U |
| benzo(k)fluoranthene | NA | NS | NS | NS | U | U | U |
| bis(2-ethylhexyl)phthalene | NA | NS | NS | NS | U | U | U |
| chrysene | 1,000 | NS | NS | NS | 630 J | 68 J | U |
| dibenz(a,h)anthracene | NA | NS | NS | NS | U | U | U |
| dimethyl phthalate | NA | NS | NS | NS | 400 J | 220 J | 140 J |
| fluoranthene | 100,000 | NS | NS | NS | 1,000 J | 78 J | U |
| flourene | NA | NS | NS | NS | U | U | U |
| indeno(1,2,3-c,d)pyrene | 500 | NS | NS | NS | 260 J | 53 J | U |
| phenanthrene | 100,000 | NS | NS | NS | 810 J | 36 J | U |
| pyrene | 100,000 | NS | NS | NS | 1,200 J | 94 J | U |

Notes:
U- Undetected at the Limit of Detection.
J- Estimated: The analyte was positively identfied; the quantitation is an estimation.
NS- Not sampled.
♦- Denotes higher nominal value of duplicate sample result.
NA- Not available.

**Table 1**
**DP013 Building 255 AOC**
**2013 Site Investigation Results (VOCs and SVOCs)**

| Sample Location | NYCRR Part 375 Residential use Soil Cleanup Objectives (µg/Kg) | B255SCS-10 | | |
|---|---|---|---|---|
| Sample ID | | B255SCS1004AA | B255SCS1008AA | B255SCS1012AA |
| Date of Collection | | 7/29/2013 | 7/29/2013 | 7/29/2013 |
| Sample Depth (ft bgs) | | 0-4 | 4-8 | 8-12 |
| **VOCs (µg/Kg)** | | | | |
| **methylene chloride** | 51,000 | NS | NS | NS |
| **SVOCs (µg/Kg)** | | | | |
| **acenaphthene** | 100,000 | U | 11 J | U |
| **acenaphthylene** | 100,000 | U | 160 J | 21 J |
| **anthracene** | 100,000 | U | 100 J | U |
| **benzo(a)anthracene** | 1,000 | U | 370 | 380 J |
| **benzo(a)pyrene** | 1,000 | U | 420 | 46 J |
| **benzo(b)fluoranthene** | 1,000 | U | 600 M | 75 J |
| **benzo(g,h,i)perylene** | 1,000 | U | 330 J | 39 J |
| **benzo(k)fluoranthene** | NA | U | 220 J | U |
| **bis(2-ethylhexyl)phthalene** | NA | U | 52 J | U |
| **chrysene** | 1,000 | U | 540 | 52 J |
| **dibenz(a,h)anthracene** | NA | U | 58 J | U |
| **dimethyl phthalate** | NA | 350 J | 390 | 190 J |
| **fluoranthene** | 100,000 | U | 690 | 65 J |
| **flourene** | NA | U | 30 J | U |
| **indeno(1,2,3-c,d)pyrene** | 500 | U | 330 J | 30 J |
| **phenanthrene** | 100,000 | 21 J | 330 J | 29 J |
| **pyrene** | 100,000 | 44 J | 900 | 85 J |

Notes:
U- Undetected at the Limit of Detection.
J- Estimated: The analyte was positively identfied; the quantitation is an estimation.
NS- Not sampled.
♦- Denotes higher nominal value of duplicate sample result.
NA- Not available.

**Table 2**
**Summary of COPCs for HHRA**

| Chemical | Frequency Detected | Maximum Concentration (mg/Kg) | Screening Level | Source | Above Screening Level | Background Concentration[a] (µg/kg) | Above Background Level | Above Screening Criteria |
|---|---|---|---|---|---|---|---|---|
| **0 to 16 ft bgs** | | | | | | | | |
| **Chromium (total)** | 22/22 | 27 | 22/36* | NYS | YES | 30** | NO | YES |

Notes:

a- Background Concentration from statewide rural surface soil survey conducted by NYSDOH and NYSDEC (August 2005).

Identified as a COPC and evaluated in the HHRA.

*- hexavalent/trivalent

**- trivalent only

**Table 3**
**HHRA Assumptions**

| Term | Definition | Receptor | |
|---|---|---|---|
| | | Resident Child | Resident Adult |
| ATc | Averaging time cancer (days) | 25550 | 25550 |
| ATnc | Averaging time non-cancer (days) | 2190 | 10950 |
| BW | Body Weight (kg) | 15 | 70 |
| ED | Exposure Duration (years) | 6 | 30 |
| EF | Exposure Frequency (days/yr) | 350 | 350 |
| ET | Exposure Time (outdoor inhalation) (hrs/day) | 10 | 10 |
| IR | Ingestion Rate (mg/day) | 200 | 100 |
| M | Soil to Skin Adherence Factor ($mg/cm^2$-day) | 0.2 | 0.07 |
| SA | Exposed Skin Surface Area ($cm^2$) | 2800 | 5700 |
| ABS | Dermal Absorption Factor (unitless) | 0.025 | 0.025 |
| PEF | Particulate Emission Factor ($m^3/kg$) | 1.36E+09 | 1.36E+09 |

**Table 4**
**Toxicity Values for Chromium**

| Chemical | Toxicity Values | | | | | |
|---|---|---|---|---|---|---|
| | Carcinogenic | | | NonCarcinogenic | | |
| | SFo (mg/kg-day)$^{-1}$ | SFd (mg/kg-day)$^{-1}$ | IUR (ug/m3)$^{-1}$ | RfDo (mg/kg-day) | RfDd (mg/kg-day) | RfC (ug/m$^3$) |
| Chromium (III) | na | na | na | 1.50E+00 | 1.50E+00 | na |
| Chromium (VI) | na | na | 1.20E-02 | 3.00E-03 | 3.00E-03 | 1.00E-01 |

Notes:
na - not available
SFo - Slope Factor Oral
SFd - Slope Factor Dermal
IUR - Inhalation Unit Risk
RfDo - Reference Dose Oral
RfDd - Reference Dose Dermal
RfC - Reference Concentration Inhalation for Particulates

## Table 5
## HHRA Equations and Models

**Soil Ingestion**

*Equation 1:* $$HQ = \frac{CS \times IR \times EF \times ED}{BW \times ATnc \times RfDo}$$

*Equation 2:* $$CR = \frac{CS \times IR \times EF \times ED \times SFo}{BW \times ATc}$$

**Soil Dermal Contact**

*Equation 3:* $$HQ = \frac{CS \times SA \times M \times ABS \times EF \times ED}{BW \times ATnc \times RfDd}$$

*Equation 4:* $$CR = \frac{CS \times SA \times M \times ABS \times EF \times ED \times SFd}{BW \times ATc}$$

**Inhalation of Particulates**

*Equation 5:* $$HQ = \frac{CA \times ET \times EF \times ED}{ATnc \times RfC}$$

*Equation 6:* $$CR = \frac{CA \times ET \times EF \times ED \times IUR}{ATc}$$

**Delivery of Particulate Chemicals from Soil to Air**

*Equation 7:* $$CA = \frac{CS}{PEF}$$

**Table 6**
**HHRA Soil Ingestion Risks**

**Soil Ingestion**

Equation 1: $$HQ = \frac{CS \times IR \times EF \times ED}{BW \times ATnc \times RfDo}$$

Equation 2: $$CR = \frac{CS \times IR \times EF \times ED \times SFo}{BW \times ATc}$$

Adult- Non-Cancer Hazard Indices

| Soil Depth (ft bgs) | CS (mg/kg) | IR (kg/day) | EF (day/yr) | ED (yr) | BW (kg) | ATnc (days) | RfDo (mg/kg-day) | HQ (unitless) |
|---|---|---|---|---|---|---|---|---|
| 0-16 | 14.32 | 1.00E-04 | 350 | 30 | 70 | 10950 | 3.00E-03 | 6.54E-03 |

Child-Non-Cancer Hazard Indices

| Soil Depth (ft bgs) | CS (mg/kg) | IR (kg/day) | EF (day/yr) | ED (yr) | BW (kg) | ATnc (days) | RfDo (mg/kg-day) | HQ (unitless) |
|---|---|---|---|---|---|---|---|---|
| 0-16 | 14.32 | 2.00E-04 | 350 | 6 | 15 | 2190 | 3.00E-03 | 6.10E-02 |

**Table 7**
**HHRA Soil Dermal Risks**

**Soil Dermal**

Equation 3: $$HQ = \frac{CS \times SA \times M \times ABS \times EF \times ED}{BW \times ATnc \times RfDd}$$

Equation 4: $$CR = \frac{CS \times SA \times M \times ABS \times EF \times ED \times SFd}{BW \times ATc}$$

Adult- Non-Cancer Hazard Indices

| Soil Depth (ft bgs) | CS (mg/kg) | SA ($cm^2$) | M ($kg/cm^2$-day) | ABS (unitless) | EF (day/yr) | ED (yr) | BW (kg) | ATnc (days) | RfDd (mg/kg-day) | HQ (unitless) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-16 | 14.32 | 5700 | 7.00E-08 | 0.025 | 350 | 30 | 70 | 10950 | 3.00E-03 | 6.52E-04 |

Child-Non-Cancer Hazard Indices

| Soil Depth (ft bgs) | CS (mg/kg) | SA ($cm^2$) | M ($kg/cm^2$-day) | ABS (unitless) | EF (day/yr) | ED (yr) | BW (kg) | ATnc (days) | RfDd (mg/kg-day) | HQ (unitless) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-16 | 14.32 | 2800 | 2.00E-07 | 0.025 | 350 | 6 | 15 | 2190 | 3.00E-03 | 4.27E-03 |

**Table 8**
**HHRA Soil Inhalation Risks**

**Soil Inhalation**

Equation 5: $HQ = \frac{CA \times ET \times EF \times ED}{ATnc \times RfC}$ Equation 6: $CR = \frac{CA \times ET \times EF \times ED \times IUR}{ATc}$ Equation 7: $CA = \frac{CS}{PEF}$

Adult-Cancer Risks

| Soil Depth (ft bgs) | PEF ($m^3$/kg) | CA (mg/$m^3$) | EF (day/yr) | ED (yr) | ATc (hrs) | ET (hrs/day) | IUR (mg/$m^3$)$^{-1}$ | CR (unitless) |
|---|---|---|---|---|---|---|---|---|
| 0-16 | 1.36E+09 | 1.05E-08 | 350 | 30 | 613200 | 10 | 1.20E-05 | 2.16E-14 |

Child-Cancer Risks

| Soil Depth (ft bgs) | PEF ($m^3$/kg) | CA (mg/$m^3$) | EF (day/yr) | ED (yr) | ATc (hrs) | ET (hrs/day) | IUR (mg/$m^3$)$^{-1}$ | CR (unitless) |
|---|---|---|---|---|---|---|---|---|
| 0-16 | 1.36E+09 | 1.05E-08 | 350 | 6 | 613200 | 10 | 1.20E-05 | 4.33E-15 |

Adult- Non-Cancer Hazard Indices

| Soil Depth (ft bgs) | PEF ($m^3$/kg) | CA (mg/$m^3$) | EF (day/yr) | ED (yr) | ATnc (hrs) | ET (hrs/day) | RfC (mg/$m^3$) | HQ (unitless) |
|---|---|---|---|---|---|---|---|---|
| 0-16 | 1.36E+09 | 1.05E-08 | 350 | 30 | 262800 | 10 | 1.00E-04 | 4.21E-13 |

Child-Non-Cancer Hazard Indices

| Soil Depth (ft bgs) | PEF ($m^3$/kg) | CA (mg/$m^3$) | EF (day/yr) | ED (yr) | ATnc (hrs) | ET (hrs/day) | RfC (mg/$m^3$) | HQ (unitless) |
|---|---|---|---|---|---|---|---|---|
| 0-16 | 1.36E+09 | 1.05E-08 | 350 | 6 | 52560 | 10 | 1.00E-04 | 4.21E-13 |

**Table 9**
**Summary of Cancer Risks and Non-Cancer Hazard Indices**

**Summary of Cancer Risks**

| Exposure Media | Resident-Child Exposure Route | | | Resident-Adult Exposure Route | | | CR |
|---|---|---|---|---|---|---|---|
| Soil Depth (ft bgs) | Ingestion | Dermal | Inhalation | Ingestion | Dermal | Inhalation | |
| 0-16 | -- | -- | 4.3E-15 | -- | -- | 2.2E-14 | 2.6E-14 |

**Sumamry of Non-Cancer Hazard Indices**

| Exposure Media | Resident-Child Exposure Route | | | Resident-Adult Exposure Route | | | HI |
|---|---|---|---|---|---|---|---|
| Soil Depth (ft bgs) | Ingestion | Dermal | Inhalation | Ingestion | Dermal | Inhalation | |
| 0-16 | 6.1E-02 | 4.3E-03 | 4.2E-13 | 6.5E-03 | 6.5E-04 | 4.2E-13 | 7.2E-02 |

Notes:
CR- Carcinogenic Risk
HI- Non-Carcinogenic Hazard Index

# Figures

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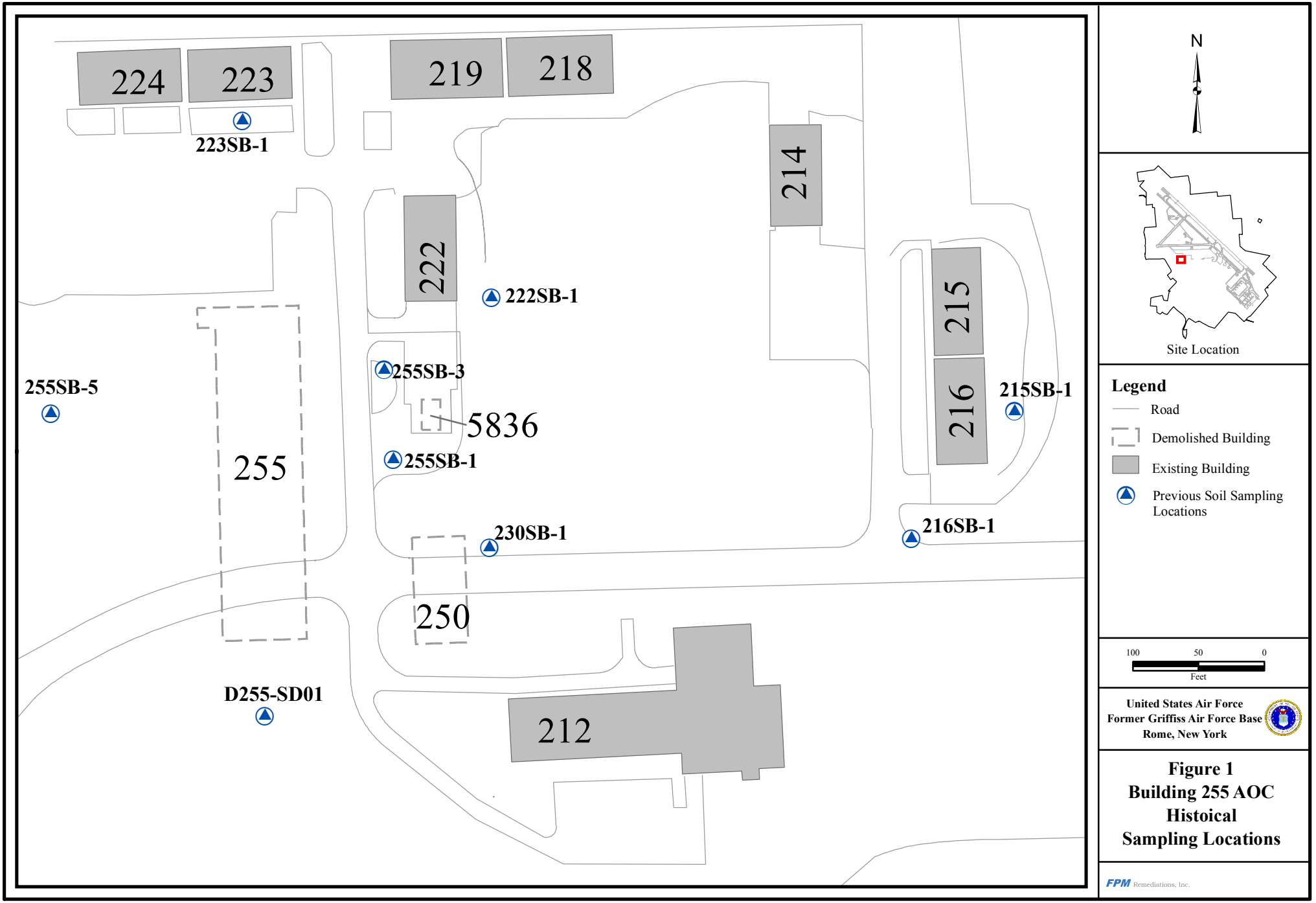


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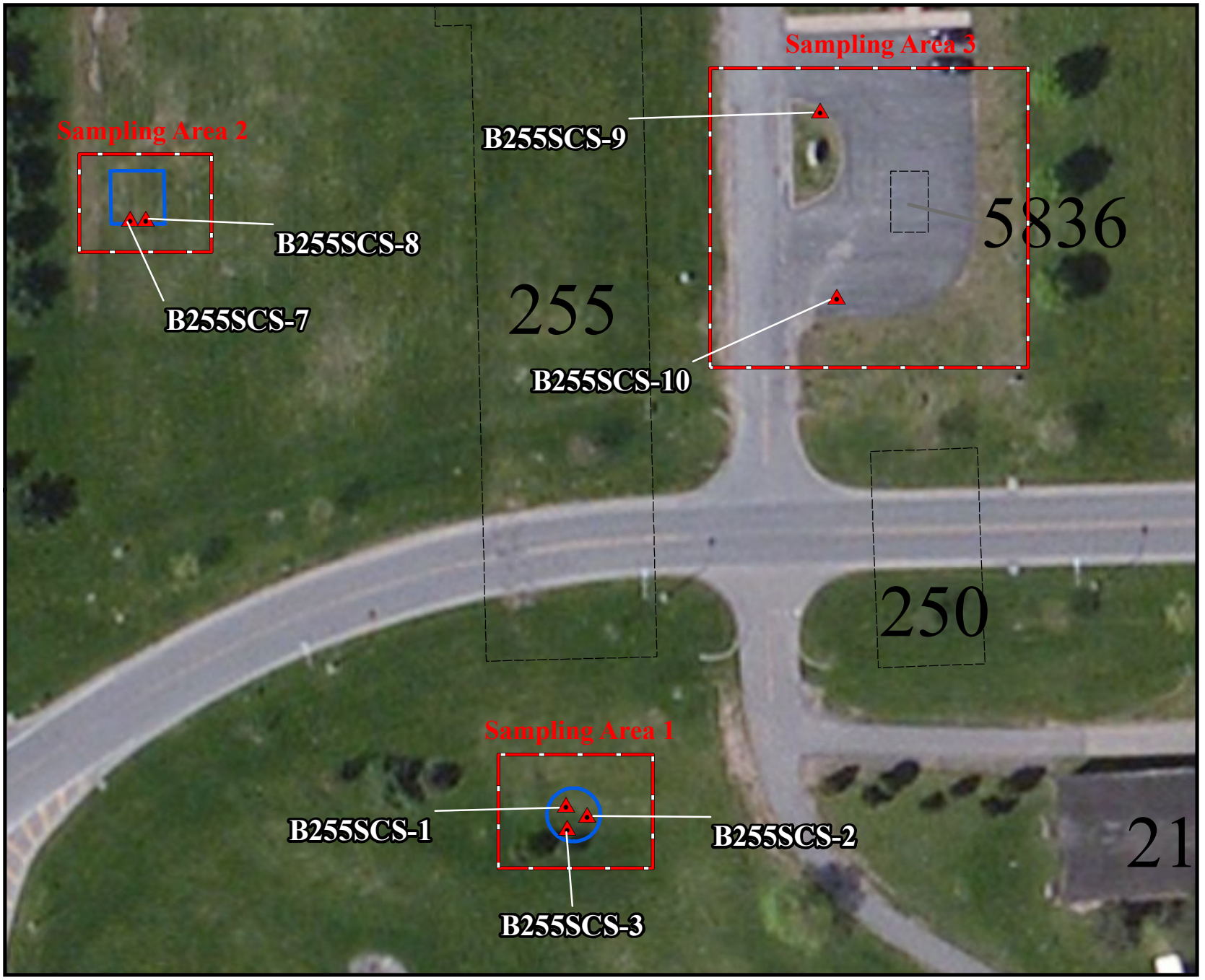


N

Site Location

**Legend**

- Soil Boring Sample Location
- Demolished Facility
- Building 255 AOC Site Boundary
- Sampling Area

50 25 0

Feet

**United States Air Force**
**Former Griffiss Air Force Base**
**Rome, New York**

**Figure 2**
**Building 255 AOC**
**Site Investigation**
**Sampling Locations**
**(Sampling Areas 1, 2, 3)**

FPM Remediations, Inc.

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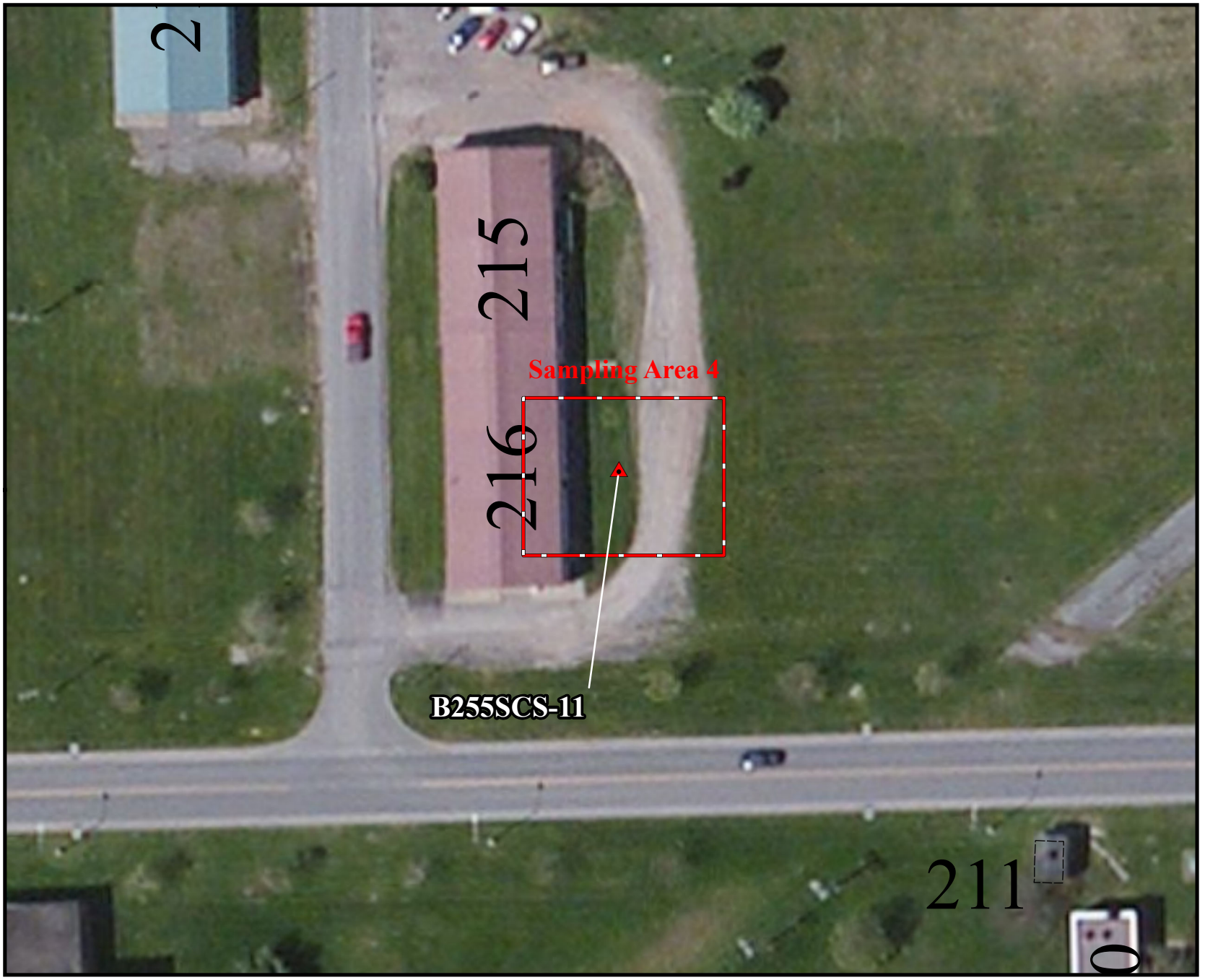


N

Site Location

**Legend**

Soil Boring Sample Location

Sampling Area

50 25 0

Feet

**United States Air Force**
**Former Griffiss Air Force Base**
**Rome, New York**

**Figure 3**
**Building 255 AOC**
**Site Investigation**
**Sampling Locations**
**(Sampling Area 4)**

FPM Remediations, Inc.

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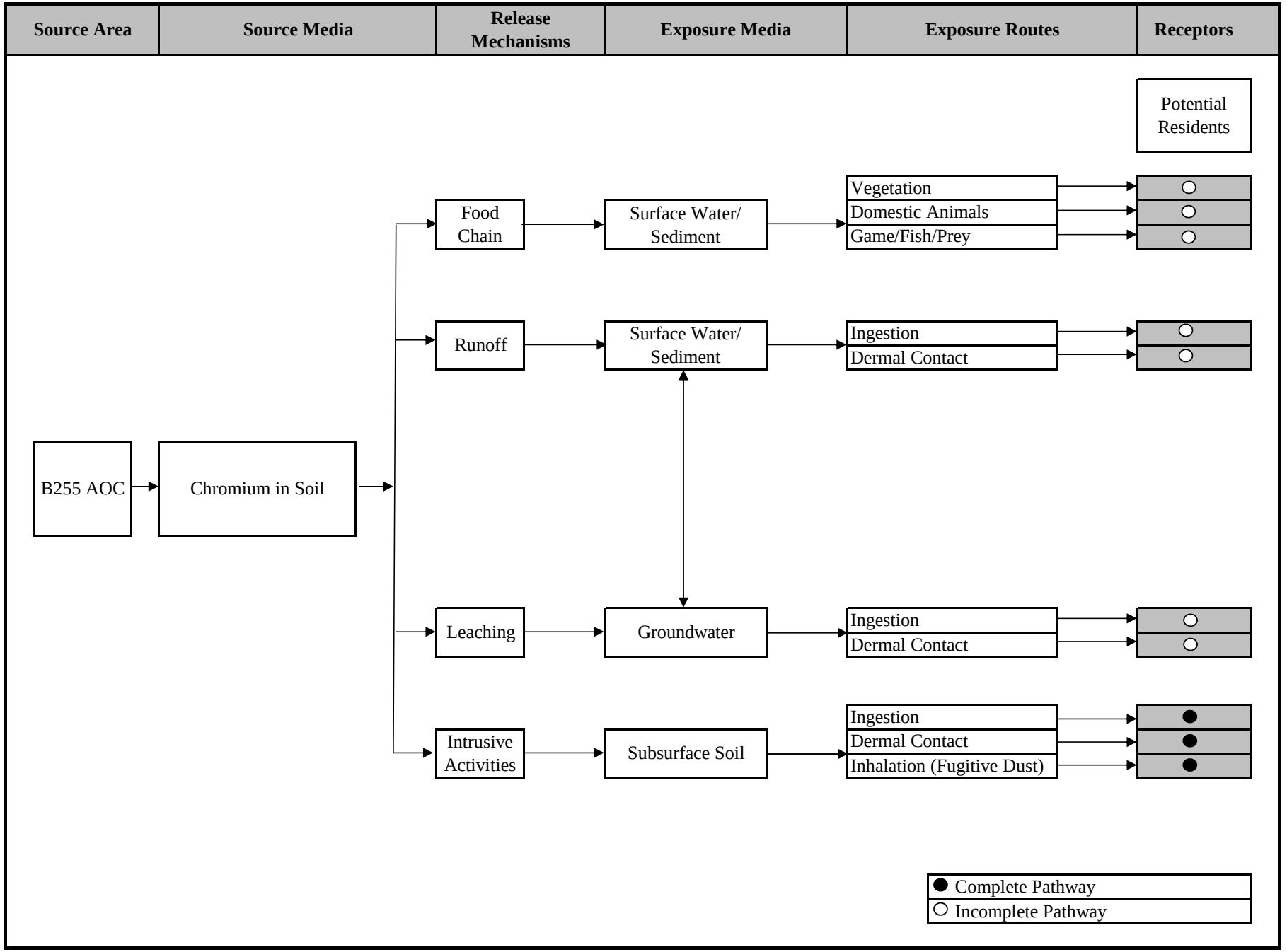
**Figure 4**
**Building 255 AOC Pathway Analysis**



**Appendix A**
**Final Record of Decision for DP013 Building 255 AOC**

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# GRIFFISS AFB
# NEW YORK

# ADMINISTRATIVE RECORD
# COVER SHEET

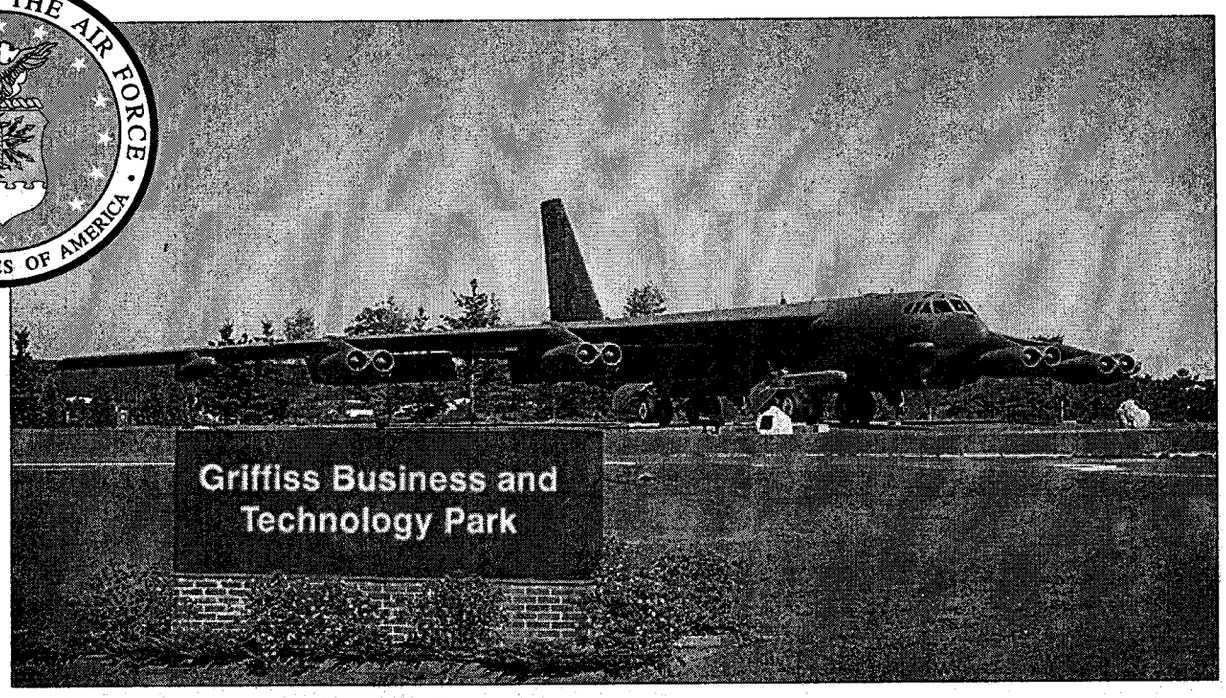
AR File Number 1554

~~17A 88~~
17A 95
94-1082
17 B

# Final Records of Decision for Areas of Concern (AOCs)

## Former Griffiss Air Force Base
## Rome, New York

## June 2001




- Building 20 (SS-23)
- Building 112 (SS-08)
- Building 222 (DP-22)
- Building 255 (DP-13)
- T-9 Storage (SS-25)

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# Final Records of Decision for Areas of Concern (AOCs) at the Former Griffiss Air Force Base Rome, New York

June 2001

AIR FORCE BASE CONVERSION AGENCY

DEPARTMENT OF THE AIR FORCE
AIR FORCE BASE CONVERSION AGENCY

JUN 0 6 2001

MEMORANDUM FOR Ms. Lynn Hancsak
HQ AFBCA/DA- Env Section
4th Floor
1400 Key Blvd
Arlington VA 22209-2802

FROM: AFBCA/DA-Griffiss
Environmental Section
153 Brooks Road
Rome, NY 13441-4105

SUBJECT: Submittal – Final Records of Decision for Area of Concern Sites Building 20, Building 112, Building 222, Building 255, and T-9 at Griffiss AFB

1. Enclosed please find the final Record of Decisions (RODs) for Area of Concern Sites Building 20 (SS-23), Building 112 (SS-08), Building 222 (DP-22), Building 255 (DP-13), and T-9 (SS-25). Please forward to the Director for his signature and send three (3) signed copies to the US Environmental Protection Agency, Region 2.

2. Please note that in Section 1 "Declaration" of the RODs, there are statements to the fact that "Future landowners will be bound through the transfer documents, to the industrial/commercial reuse of the property." If AFBCA policy has been changed such that the AFBCA will not restrict reuse of the property being transferred, these RODs will be null and void and they will have to be reissued to reflect the new policy and undergo the full regulatory and public review process.

3. If you have any questions, please contact Mike Wojnas, 315-330-2275.

MICHAEL F. MCDERMOTT
BRAC Environmental Coordinator

Enclosure:
Final RODs for Area of Concern Sites
Building 20, Building 112, Building 222, Building 255, and T-9

17-A-95
94-7082
17-B 55-08/23/25
DP- 13/22

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

SEP 27 2001

Mr. Albert F. Lowas
Director
AFBCA/DR
1700 North Moore Street, Suite 2300
Arlington, VA 22209-2802

Re: Records of Decision for Five Areas of Concern
Griffiss Air Force Base

Dear Mr. Lowas:

This is to inform you that after considering public comments on the Proposed Plans, Griffiss Air Force Base's responsiveness summary to those comments, the Draft Records of Decision and other supporting documents, the U.S. Environmental Protection Agency (EPA) concurs with the Records of Decision for Building 20, Building 112, Building 222, Building 255, and the T-9 Area. Enclosed is a copy of the signed Records of Decision, which I have co-signed on behalf of EPA.

These Records of Decision address only the above mentioned areas of concern. All other areas of Griffiss Air Force Base are being addressed under separate operable units. Please note that these Records of Decision require certain land use restrictions (e.g., deed restrictions) and are subject to EPA's 5-year review process.

If you have any questions regarding the subject of this letter, please contact me at (212) 637-5000 or have your staff contact Douglas Pocze at (212) 637-4432.

Sincerely,

William J. Muszynski, P.E.
Acting Regional Administrator

enclosure

cc: Erin M. Crotty, NYSDEC w/encl.

001002_UK08_03_01-B0651

# Final Record of Decision for the Building 255 Drywell Area of Concern (DP-13) at the Former Griffiss Air Force Base Rome, New York

June 2001

AIR FORCE BASE CONVERSION AGENCY

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# List of Abbreviations and Acronyms

| | |
|---|---|
| AFB | Air Force Base |
| AFBCA | Air Force Base Conversion Agency |
| AOC | Area of Concern |
| ARAR | Applicable or Relevant and Appropriate Requirement |
| ATSDR | Agency for Toxic Substances and Disease Registry |
| BGS | below ground surface |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| COPC | chemicals of potential concern |
| DFAS | Defense Finance and Accounting Services |
| DoD | Department of Defense |
| EPA | United States Environmental Protection Agency |
| FFA | Federal Facility Agreement |
| GPR | ground-penetrating radar |
| HI | Hazard Index |
| HQ | Hazard Quotient |
| IRP | Installation Restoration Program |
| NCP | National Oil and Hazardous Substances Pollution Contingency Plan |
| NEADS | Northeast Air Defense Sector |
| NPL | National Priorities List |
| NYANG | New York Air National Guard |
| NYCRR | New York Code of Rules and Regulations |
| NYSDEC | New York State Department of Environmental Conservation |
| PCB | polychlorinated biphenyl |
| RAB | Restoration Advisory Board |
| RI | Remedial Investigation |
| ROD | Record of Decision |
| SAC | Strategic Air Command |
| SVOC | semivolatile organic compound |
| TAGM | Technical and Administrative Guidance Memorandum |
| TBC | To-Be-Considered |
| VOC | volatile organic compound |

# 1 Declaration

## 1.1 Site Name and Location

The Building 255 Drywell Area of Concern (AOC) (site identification designation DP-13) is located at the former Griffiss Air Force Base (AFB) in Rome, Oneida County, New York.

## 1.2 Statement of Basis and Purpose

This Record of Decision (ROD) presents the no further action for soil with land use restrictions alternative for the Building 255 Drywell AOC at the former Griffiss AFB. This alternative has been chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (USEPA 1980), as amended by the Superfund Amendment and Reauthorization Act (SARA) (USEPA 1986), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (USEPA 1968). The Air Force Base Conversion Agency (AFBCA), the United States Environmental Protection Agency (EPA), and the New York State Department of Environmental Conservation (NYSDEC) have adopted this ROD through joint agreement. This decision is based on the administrative record file for this site.

## 1.3 Description of Selected Remedy

The selected remedy for the Building 255 Drywell AOC is no further action for soil with land use restrictions for industrial/commercial use. The agencies will perform

joint 5-year reviews to ensure that future land use is in compliance with the transfer documents (deed) and consistent with the risk assessment for industrial/commercial use.

## 1.4 Declaration Statement

The AFBCA, EPA, and NYSDEC have determined that no further action for soil with land use restrictions are warranted for the Building 255 Drywell AOC. An interim remedial action was performed at this site in which the majority of soil contamination found during the remedial investigation was removed. The remaining chemicals detected in the soil do not exceed standards and guidance values and the known source of groundwater contamination has been removed. The concentrations of the contaminants remaining in the site soil following the remedial action do not pose a current or potential threat to public health or the environment provided the property is used for industrial/commercial use with groundwater use restrictions. Groundwater at the Building 255 AOC is being further evaluated as part of the On Base Groundwater AOC Tin City Operable Unit. Future landowners will be bound, through transfer documents (deed), to the industrial/commercial reuse of the property.

## 1.5 Signature of Adoption of the Remedy

On the basis of the remedial investigations performed at the Building 255 Drywell AOC there is no evidence that residual contamination at this site poses a current or future potential threat to human health or the environment when used for industrial/commercial purposes. Future landowners will be bound, through transfer documents (deed), to the industrial/commercial reuse of the property. The New York State Department of Environmental Conservation has concurred with the selected remedial action presented in this Record of Decision.

Albert F. Lowas, Jr.
Director
Air Force Base Conversion Agency

August 20, 2001
Date

William J. Muszynski, P.E.
Acting Regional Administrator
United States Environmental Protection Agency, Region 2

9/27/01
Date

# 2 Decision Summary

## 2.1 Site Name, Location, and Brief Description

The Building 255 Drywell Area of Concern (AOC) (site identification designation DP-13) is located at the former Griffiss Air Force Base (AFB) in Rome, Oneida County, New York.

The Building 255 AOC is located in the west-central portion of the base (see Figure 1). The suspected drywells associated with this site included several near Building 255 and other nearby buildings, including Buildings 215/216, 222, 223, and the former location of Building 230 (see Figure 2).

## 2.2 Site History and Investigation Activities

### The Former Griffiss AFB Operational History

The mission of the former Griffiss AFB varied over the years. The base was activated on February 1, 1942, as Rome Air Depot, with the mission of storage, maintenance, and shipment of material for the U.S. Army Air Corps. Upon creation of the U.S. Air Force in 1947, the depot was renamed Griffiss Air Force Base. The base became an electronics center in 1950, with the transfer of Watson Laboratory Complex (later Rome Laboratory). The 49th Fighter Interceptor Squadron was also added in that year. In June 1951, the Rome Air Development Center was established with the mission of accomplishing applied research, development, and testing of electronic air-ground systems. The Headquarters of the Ground Electronics Engineering Installations Agency was added in

June 1958 to engineer and install ground communications equipment throughout the world. On July 1, 1970, the 416th Bombardment Wing of the Strategic Air Command (SAC) was activated with the mission of maintenance and implementation of both effective air refueling operations and long-range bombardment capability. Griffiss AFB was designated for realignment under the Base Realignment and Closure Act in 1993 and 1995, resulting in deactivation of the 416th Bombardment Wing in September 1995. Rome Laboratory and the Northeast Air Defense Sector (NEADS) will continue to operate at their current locations; the New York Air National Guard (NYANG) operated the runway for the 10th Mountain Division deployments until October 1998, when they were relocated to Fort Drum; and the Defense Finance and Accounting Services (DFAS) has established an operating location at the former Griffiss AFB.

## Environmental Background

As a result of the various national defense missions carried out at the former Griffiss AFB since 1942, hazardous and toxic substances were used and hazardous wastes were generated, stored, or disposed at various sites on the installation. The defense missions involved, among others, procurement, storage, maintenance, and shipping of war materiel; research and development; and aircraft operations and maintenance.

Numerous studies and investigations under the U.S. Department of Defense (DoD) Installation Restoration Program (IRP) have been carried out to locate, assess, and quantify the past toxic and hazardous waste storage, disposal, and spill sites. These investigations included a records search in 1981 (Engineering Science 1981), interviews with base personnel, a field inspection, compilation of an inventory of wastes, evaluation of disposal practices, and an assessment to determine the nature and extent of site contamination; Problem Confirmation and Quantification studies (similar to what is now designated a Site Investigation) in 1982 (Weston 1982) and 1985 (Weston 1985); soil and groundwater analyses in 1986; a base-wide health assessment in 1988 by the U.S. Public Health Service, Agency for Toxic Substances and Disease Registry (ATSDR) (ATSDR 1998); base-specific hydrology investigations in 1989 and 1990 (Geotech 1991); a groundwater investigation in 1991; and site-specific investigations between 1989 and 1993. ATSDR issued a Public Health Assessment for Griffiss AFB, dated October 23, 1995 (ATSDR 1995), and an addendum, dated September 9, 1996.

Pursuant to Section 105 of CERCLA, Griffiss AFB was included on the National Priorities List (NPL) on July 15, 1987. On August 21, 1990, the agencies entered into a Federal Facility Agreement (FFA) under Section 120 of CERCLA.

Under the terms of the agreement, the Air Force was required to prepare and submit numerous reports to NYSDEC and EPA for review and comment. These reports address remedial activities that the Air Force is required to undertake under CERCLA and include identification of Areas of Concern on base; a scope of work for a Remedial Investigation (RI); a work plan for the RI, including a sampling and analysis plan and a quality assurance project plan; a baseline risk assessment; a community relations plan; an RI report; and a work plan and the report for a supplemental investigation. The Air Force delivered the draft-final RI report covering 31 AOCs to EPA and NYSDEC on December 20, 1996 (Law 1996). The draft Closure Certification Report for Interim Remedial Action was delivered on May 24, 2000 (Ocuto 2000).

This ROD for no further action for soil with land use restrictions is based on an evaluation of potential threats to human health and the environment due to contamination in the soil and groundwater, and the performance of interim remedial actions at the Building 255 Drywell AOC. During the RI, a site-specific baseline risk assessment (using appropriate toxicological and exposure assumptions to evaluate cancer risks and non-cancer health hazards) was conducted in order to evaluate the risks posed by detected site contaminants to the reasonably maximally exposed individual under current and future land use assumptions. In the RI report, the concentrations of the contaminants were compared to available standards and guidance values using federal and state environmental and public health laws that were identified as potentially applicable or relevant and appropriate requirements at the site. Chemical-specific ARARs are usually health- or risk-based numerical values or methodologies that result in a numerical value when applied to site-specific conditions. Currently, there are no chemical-specific ARARs for soil (other than for polychlorinated biphenyls [PCBs]), therefore, other non-promulgated federal and state advisories and guidance values, referred to as To-Be-Considereds (TBCs), and background levels of the contaminants in the absence of TBCs, were considered.

## Remedial Investigation

In 1994, an RI was performed (Law 1996). The main objective of the RI was to investigate the nature and extent of environmental contamination from historical releases at the AOC in order to determine whether any further remedial action was necessary to prevent potential threats to human health and the environment that might arise from exposure to site conditions. The RI included a visual survey, a ground-penetrating radar (GPR) survey, and the excavation of three test pits to try to locate the drywell; sampling and analysis of soil and grab groundwater; and installation of eight temporary monitoring wells. Observations from the visual survey included:

**Building 255.** Two features were noted east of Building 255 that may have been drywells associated with the storm water system. These features consisted of two corrugated metal pipes covered by steel grating and filled with gravel. No pipes were visible leading into these structures. No drywell was visibly evident in the parking lot west of Building 255. A storm drain, covered by a manhole and filled with dirt to 4 feet BGS, was assumed to be a drywell associated with Building 255.

**Building 222.** No drywell was evident in the vicinity of this building.

**Building 223.** The area at the suspected drywell location, south of Building 223, was reported by Griffiss AFB personnel to have been frequently excavated to at least 8 feet BGS for optical cable installation and repair. No drywell was reportedly encountered during this construction. The drywell at this location may have been unknowingly excavated or otherwise disturbed during construction activities.

**Former Building 230.** The area at the suspected drywell location east of the former location of Building 230 (now a covered pesticide storage/wash facility) was highly disturbed during construction of the new facility. No drywell was found at this location.

**Building 215/216.** An open surface-water drainage swale directs flow to a corrugated pipe where drainage is diverted beneath the driveway southwest of Building 216. It

was uncertain as to whether this was a drywell; however, this feature was at the location reported to be a drywell. No drywell was evident east of Building 215/216.

There were no anomalies detected during the GPR survey, which was conducted in 1993 at the suspected Building 255 drywell. In 1994, test pits were excavated at Building 222, Building 230, and Building 215/216 in an attempt to confirm the location of the reported drywells. Drywells were not located by any of the test pit activities and all test pits were backfilled.

Eight temporary monitoring wells were installed in August 1994 to collect grab groundwater samples. Six additional temporary wells were installed in April 1995 to collect additional grab groundwater samples. A total of 10 samples were collected. Analysis of the grab groundwater samples indicated the presence of 22 volatile organic compounds (VOCs), 20 semivolatile organic compounds (SVOCs), 34 pesticides, two PCBs, 26 metals, total glycols, cyanide, and petroleum hydrocarbons. The concentrations of 12 VOCs, six SVOCs, two pesticides, one PCB, 18 metals, and petroleum hydrocarbons exceeded the most stringent criteria for groundwater (see Table 1).

Eleven soil borings were drilled in the vicinity of the reported drywell locations. Six borings were associated with known drywell locations and five borings were located downgradient of presumed drywell locations. A total of 63 soil samples were collected. Analysis of the subsurface soil samples indicated the presence of 12 VOCs, 30 SVOCs, 23 pesticides, two PCBs, and 26 metals, as well as cyanide and petroleum hydrocarbons. The concentrations of six VOCs, nine SVOCs, one pesticide, one PCB, and 17 metals exceeded the most stringent criteria for subsurface soil (see Table 2). The high concentrations shown in Table 2 were all measured in one borehole (255SB-5) at a depth greater than 4 feet. This borehole is located near the drywell in the parking lot to the west of Building 255 Drywell. This soil was removed during the interim remedial action.

## Supplemental Investigations

An RI supplemental investigation was performed in 1997 in the Tin City area, which includes the Building 255 Drywell AOC. This investigation included the installation and sampling of two new wells at Building 255. Low levels of chloroform and trichloroethylene were detected in one of the wells, but the concentrations did not exceed the NYSDEC groundwater guidance values.

## 2.3 Highlights of Community Participation

The final proposed plan, indicating no further action for soil with land use restrictions at this site, was released to the public on Friday, February 9, 2001 (AFBCA 2001). The document was made available to the public in both the administrative record file located at Building 255 in the Griffiss Business and Technology Park and in the Information Repository maintained at the Jervis Public Library. The notice announcing the availability of this document was published in the *Rome Sentinel* on Friday, February 9, 2001. A public comment period lasting from February 9, 2001, to March 11, 2001, was set up to encourage public participation in the alternative selection process. In addition, a public meeting was held on March 1, 2001. The AFBCA and the New York State Department of Health were present at the meeting and the AFBCA answered questions about issues at the AOC and the proposal under consideration. A response to the comments received during this period is included in the Responsiveness Summary, which is part of this ROD (see Section 3).

## 2.4 Scope and Role of Site Response Action

The scope of the plan for no further action for soil with land use restrictions for the Building 255 Drywell AOC addresses the soil at the site. The land use restrictions for industrial/commercial use are consistent with the risk assessment performed for occupational workers.

## 2.5 Site Characteristics

The Building 255 AOC is located in the west-central portion of the base (see Figure 1). Building 255 was the Vehicle Maintenance Building. The suspected drywells associated with this site included several near Building 255 and other nearby buildings, including Buildings 215/216, 222, 223, and the former location of Building 230.

Two drywells, which were reportedly located near Building 255 were reportedly stone- and gravel-filled pits measuring approximately 3 feet square by 10 feet deep. The exact location of these two drywells was not known; although they were suspected (but never found) in an area on the east side of the building in the grassed area across Langley Road (see Figure 2). A third drywell was located during a site reconnaissance on the west

side of Building 255 Drywell, beneath a manhole cover in the paved parking lot. The third drywell reportedly received liquid wastes from the Vehicle Maintenance Shop and possibly a small glass repair shop located within Building 255. The quantity of wastes disposed by these facilities was estimated at less than 5 gallons per day. Wastes reportedly disposed included lube oil, engine cleaning compounds, caustics, acids, and paint. Pesticide rinse water, solvents, and other waste liquids generated in small quantities by activities in Buildings 215/216, 222, 223, 230 and 255 may also have been disposed in the Building 255 drywell. Use of this drywell was discontinued in the early 1970s.

The former Griffiss AFB covered approximately 3,552 contiguous acres in the lowlands of the Mohawk River Valley in Rome, Oneida County, New York. Topography within the valley is relatively flat, with elevations on the former Griffiss AFB ranging from 435 to 595 feet above mean sea level. Three Mile Creek, Six Mile Creek (both of which drain into the New York State Barge Canal, located to the south of the base), and several state-designated wetlands are located on the former Griffiss AFB, which is bordered by the Mohawk River on the west. Due to its high average precipitation and predominantly silty sands, the former Griffiss AFB is considered a groundwater recharge zone.

The Building 255 Drywell AOC is located on relatively flat lying terrain with less than 1 foot of relief. This AOC is not located near major natural surface water drainage features. Run-off from the site is channeled into the base drain storm system, which discharges to the Mohawk River. Groundwater has been encountered at depths ranging from 13.5 feet below ground surface (BGS) to 21 feet BGS. Groundwater flows to the south-southeast across the site. Site soil consists of brown, silty fine to coarse sand and gravel to a depth of 19 feet BGS.

## 2.6 Current and Potential Future Site Use

The Building 255 Drywell AOC is currently designated for industrial use. Future land use at this AOC is assumed to be industrial/commercial.

## 2.7 Summary of Site Risks

Site risks were analyzed based on the extent of contamination at the Building 255 Drywell AOC. As part of the RI, a baseline risk assessment was conducted to evaluate

current and future potential risks to human health and the environment associated with contaminants found in the soil and groundwater at the site. The results of this assessment and the interim remedial action were considered when formulating the no further action for soil with land use restrictions proposal.

## Human Health Risk Assessment

A baseline human health risk assessment was conducted during the RI to determine whether chemicals detected at the Building 255 Drywell AOC could pose health risks to individuals under current and proposed future land use. As part of the baseline risk assessment, the following four-step process was used to assess site-related human health risks for a reasonable maximum exposure scenario:

- Hazard Identification—identifies the contaminants of concern at the site based on several factors such as toxicity, frequency of occurrence, and concentration;
- Exposure Assessment—estimates the magnitude of actual and/or potential human exposures, the frequency and duration of these exposures, and the pathway (e.g., ingestion of contaminated soil) by which humans are potentially exposed;
- Toxicity Assessment—determines the types of adverse health effects associated with chemical exposures and the relationship between magnitude of exposure (dose) and severity of adverse effects (response); and
- Risk Characterization—summarizes and combines outputs of the exposure and toxicity assessments to provide a quantitative (e.g., one-in-a-million excess cancer risk and non-cancer Hazard Index value) assessment of site-related risks and a discussion of uncertainties associated with the evaluation of the risks and hazards for the site.

Chemicals of potential concern (COPCs) were selected for use in the risk assessment based on the analytical results and data quality evaluation. All contaminants detected in the soil and groundwater at the site were considered chemicals of potential concern with the exception of inorganics detected at concentrations less than twice the mean background concentrations; iron, magnesium, calcium, potassium, and sodium, which are essential human nutrients; and compounds detected in less than 5% of the total samples (unless they were known human carcinogens). As a class, petroleum hydrocarbons were

not included as a chemical of concern; however, the individual toxic constituents (e.g., benzene, toluene, ethylbenzene) were evaluated.

The human health risk assessment evaluated potential exposure of occupational workers including utility, construction, and industrial workers. The various exposure scenarios for each population are described in Table 3. Intake assumptions, which are based on EPA guidance, are more fully described in the RI.

Quantitative estimates of carcinogenic and noncarcinogenic risks were calculated for the Building 255 Drywell AOC as part of a risk characterization. The risk characterization evaluates potential health risks based on estimated exposure intakes and toxicity values. For carcinogens, risks are estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to the potential carcinogen. The risks of the individual chemicals are summed for each pathway to develop a total risk estimate. The range of acceptable risk is generally considered to be 1 in 10,000 ($1 \times 10^{-4}$) to 1 in 1,000,000 ($1 \times 10^{-6}$) of an individual developing cancer over a 70-year lifetime from exposure to the contaminant(s) under specific exposure assumptions. Therefore, sites with carcinogenic risk below the risk range for a reasonable maximum exposure do not generally require cleanup based upon carcinogenic risk under the NCP.

To assess the overall noncarcinogenic effects posed by more than one contaminant, EPA has developed the Hazard Quotient (HQ) and Hazard Index (HI). The HQ is the ratio of the chronic daily intake of a chemical to the reference dose for the chemical. The reference dose is an estimate (with uncertainty spanning perhaps an order of magnitude or greater) of a daily exposure level for the human population, including sensitive sub-populations, that is likely to be without an appreciable risk of deleterious effects during a portion of a lifetime. The HQs are summed for all contaminants within an exposure pathway (e.g., ingestion of soil) and across pathways to determine the HI. When the HI exceeds 1, there may be concern for potential noncarcinogenic health effects if the contaminants in question are believed to cause similar toxic effects.

EPA bases its decision to conduct site remediation on the risk to human health and the environment. Cleanup actions may be taken when EPA determines that the risk at a site exceeds the cancer risk level of 1 in 10,000 ($1 \times 10^{-4}$) or if the noncarcinogenic HI exceeds a level of 1. Once either of these thresholds has been exceeded, the 1 in

1,000,000 ($1 \times 10^{-6}$) risk level and an HI of 1 or less may be used as the point of departure for determining remediation goals for alternatives.

## Results of Site-Specific Health Risk Assessment

Potential risks from exposure to COPCs at the Building 255 Drywell AOC were evaluated for utility, construction, and industrial workers during the RI, prior to the interim remedial action. The potential carcinogenic and noncarcinogenic risks from exposure to soil and groundwater are summarized below.

## Carcinogenic Risk

The total carcinogenic risk associated with exposure of utility workers to subsurface soil was 2 in 1,000,000 ($2 \times 10^{-6}$), which is within EPA's target risk range. The total carcinogenic risk associated with exposure of construction workers to soil was 1 in 1,000,000 ($1 \times 10^{-6}$), which is within EPA's target risk range. The total carcinogenic risk from exposure to contaminants in groundwater of industrial workers was 5 in 10,000 ($5 \times 10^{-4}$), which is above EPA's target risk range. PAHs and PCBs were the major risk contributors via the inhalation and dermal pathways.

## Noncarcinogenic Risk

The total HI for utility workers exposed to soil was 0.03. The total HI for construction workers exposed to subsurface soil was 0.6. The total HI for industrial workers exposed to constituents in groundwater was 0.8. All HIs for noncarcinogenic effects are below the benchmark level of 1.

Groundwater at the Building 255 Drywell AOC is being further evaluated under On Base Groundwater AOC as part of the Tin City operable unit.

## Uncertainties

Uncertainties exist in many areas of the human health risk assessment process. However, use of conservative variables in intake calculations and health-protective assumptions throughout the entire risk assessment process results in an assessment that is protective of human health and the environment. Examples of uncertainties associated with the risk assessment for this AOC include (1) Chemical samples were collected from

the suspected source of contamination rather than through random sampling, which may result in a potential overestimation of risk; (2) The HIs associated with dermal contact with soil were not quantified for the majority of COPCs, which may lead to underestimation of the overall risk due to dermal contact; (3) The models used in the RI are likely to overestimate exposure point concentrations in air, which would cause an overestimation of risk for the inhalation pathway; (4) It was assumed that groundwater would be used as a potable water source under the industrial use scenario (i.e., showering, ingestion, industrial processes) in the future, which is unlikely since the site has ready access to the existing water supplies at the former base and in the City of Rome. This would result in an overestimation of risk; and (5) Toxicological criteria were not available for all chemicals found at the site, which may result in an underestimation of risk.

### Ecological Risk Assessment

Building 255 Drywell is located in a highly developed portion of the base with little habitat available for ecological receptors. However, potential future exposures to ecological receptors were evaluated and a baseline risk assessment was performed. The assessment modeled risks to the raccoon and short-tailed shrew for exposures to surface soil.

The hazard quotients for both the raccoon and the shrew were less than 1; the potential for adverse impacts to these ecological receptors is considered to be insignificant. Modeling of bioaccumulation to higher order species was not performed, nor was the cumulative effect of multiple contaminants considered; this tends to underestimate the risk to ecological receptors.

Although certain state-listed endangered plants and animals have been observed on or in the vicinity of the base, no threatened and/or endangered species have been identified at this site (Corey 1994). There are no federally listed (U.S. Department of the Interior) threatened or endangered plant or animal species at the former base.

## 2.8 Interim Remedial Action

In 1998, based upon the results of the RI and baseline risk assessment, an interim remedial action was performed to remove contaminated subsurface soil at the drywell located west of the former site of Building 255 (see Figure 3) (Ocuto 2000). It was deter-

mined that the removal of contaminated soil from this location would mitigate the majority of contamination and resulting risk associated with this site. The work consisted primarily of asphalt demolition, removal and disposal of the drywell, soil excavation, confirmation sampling and analysis, transportation and off-site disposal of excavated materials, backfilling and site restoration. Building 255 was demolished prior to remedial actions at the site. A brief summary of this remedial action is provided below.

Remedial action work activities began on July 7, 1998. Equipment was mobilized and work zones were established. The extent of contaminated soil was estimated as an approximately 20 foot square area, centered on the drywell, from a depth of 4 to 14 feet BGS. Excavation of the drywell involved removing the first four feet of clean overburden and stockpiling. All of the remaining material removed from the excavation was assumed contaminated, segregated, and stockpiled on a bermed liner. Two underground pipes, one that came from the Building 255 floor drain to the parking lot drywell, and one of unknown origin, were cut and removed to the edge of the excavation. The remaining pipe ends were plugged and grouted closed. Excavation was completed on July 13, 1998. The estimated volume of soil excavated, stockpiled, and disposed was 192.3 cubic yards.

Confirmatory samples were taken after the removal action was completed to verify the effectiveness of this interim remedial action. The Air Force, EPA, and NYSDEC compared the results of the confirmatory soil samples to the risk-based cleanup goals and NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046: Determination of Soil Cleanup Objectives and Soil Cleanup Levels (NYSDEC 1994). After agreement was reached that the project goals were met, the excavated area was backfilled with the estimated 59.3 cubic yards of clean, stockpiled soil and additional clean material.

Material from the contaminated soil stockpile was loaded for transport to Seneca Meadows Landfill for disposal on September 14, 15, and 16, 1998.

## 2.9 Principal Threat Waste

There are no principal threat wastes at the Building 255 AOC.

## 2.10 Description of the No Further Action for Soil with Land Use Restrictions

No further action for soil with land use restrictions for industrial/commercial use is proposed for the Building 255 Drywell AOC. Five-year reviews will be performed by the Air Force, in conjunction with the EPA and NYSDEC, to ensure that future land use is in compliance with the transfer documents (deed) for industrial/commercial use. The transfer documents will contain the following restrictions to ensure that the reuse of the site is consistent with the risk assessment:

- The property will be designated for industrial/commercial use unless permission is obtained from the EPA, NYSDEC, and the New York State Department of Health; and
- The owner or occupant of the property shall not extract, utilize, consume, or permit to be extracted any water from the subsurface aquifer within the boundary of the property unless such owner or occupant obtains prior written approval from the New York State Department of Health.

As a result of the interim remedial action, the majority of soil contamination found during the RI investigations at this AOC were removed. The remaining chemicals detected in the soil do not exceed standards and guidance values and the known source of the groundwater contamination has been removed. In addition, the baseline risk assessment for industrial/commercial use indicated that the levels of contamination present in the soil prior to remediation fell within or below EPA's acceptable carcinogenic risk range and posed no noncarcinogenic risk to utility, construction, and industrial workers. Therefore, the concentrations of the chemicals remaining in the soil after the completion of the remedial action demonstrate that the remaining site contaminants pose no current or potential threat to public health or the environment. Groundwater at the Building 255 Drywell AOC is being further evaluated as part of the On Base Groundwater AOC Tin City operable unit.

## 2.11 Statutory Determinations

The selected remedy must meet the statutory requirements of CERCLA, Section 121, which are described below.

### Protection of Human Health and the Environment

The plan for no further action for soil with land use restrictions for industrial/commercial use will provide adequate protection from exposure to contaminants by limiting the use of the site in accordance with the risk assessment.

### Compliance with ARARs

Contaminant concentrations in the soil following the interim remedial action comply with the applicable ARARs. Furthermore, land use restrictions for industrial/commercial use will be consistent with the risk assessment, which was performed for occupational workers.

### Cost-Effectiveness

No costs are associated with the selected alternative.

### Utilization of Permanent Solutions and Alternative Treatment Technologies to the Maximum Extent Practicable

Treatment technologies are not included in the selected alternative.

### Preference for Treatment as a Principal Element

Treatment technologies are not included in the selected alternative.

## 2.12 Documentation of Significant Changes

No significant changes have been made to the selected alternative from the time the proposed plan was released for public comment.

**Table 1**
**COMPOUNDS EXCEEDING STANDARDS AND GUIDANCE VALUES**
**BUILDING 255 DRYWELLS**
**GROUNDWATER SAMPLES**

| Compound | Range of Detected Concentrations | Frequency of Detection Above Most Stringent Criterion | Most Stringent Criterion |
|---|---|---|---|
| **Volatiles (µg/L)** | | | |
| 1,2-Dichloroethane | 0.8 - 4 | 2/8 | 0.4 [a] |
| 1,3,5-Trimethylbenzene | 190 D | 1/8 | 5 |
| Benzene | 0.2 J - 3 | 1/8 | 1 [a] |
| Ethylbenzene | 26 | 1/8 | 5 [a] |
| Isopropylbenzene | 15 | 1/8 | 5 [a] |
| m,p-Xylene | 160 D | 1/8 | 5 [a] |
| Naphthalene | 83 D | 1/8 | 10 [b] |
| o-Xylene | 87 D | 1/8 | 5 [a] |
| SEC-butylbenzene | 13 | 1/8 | 5 [a] |
| Toluene | 0.1 J - 780 D | 1/8 | 5 [a] |
| Tricholoethylene | 0.1 J - 7.7 | 3/8 | 3 |
| cis-1,2-Dichlorethylene | 96 D | 1/8 | 5 [a] |
| **SVOCs (µg/L)** | | | |
| Benzo(a)anthracene | 0.06 J - 0.9 J | 4/9 | 0.002 [b] |
| Benzo(a)pyrene | 0.06 J - 0.9 J | 4/9 | 0.002 [b] |
| Benzo(b)fluoranthene | 0.1 J - 1 J | 4/9 | 0.002 [b] |
| Benzo(k)fluoranthene | 0.2 JU - 0.3 J | 3/8 | 0.002 [b] |
| Chrysene | 0.06 J - 1 J | 4/9 | 0.002 [b] |
| Indeno(1,2,3-cd)pyrene | 0.5 J | 1/8 | 0.002 [b] |
| **Pesticides/PCBs (µg/L)** | | | |
| Aldrin | 0.001 J - 0.004 J | 1/9 | 0.002 [c] |
| Dieldrin | 0.001 J - 0.013 J | 1/8 | 0.004 [a] |
| PCB-1260 (Aroclor 1260) | 0.6 J | 1/8 | 0.1 [a] |
| **Metals (mg/L)** | | | |
| Aluminum | 5.22 - 1,420 | 8/8 | 0.05 [d] |
| Antimony | 0.0115 | 1/7 | 0.003 [a] |
| Arsenic | 0.0041 J - 0.19 | 5/8 | 0.025 [a] |
| Barium | 0.039 - 8.19 | 1/8 | 1 [a] |
| Beryllium | 0.00173 J - 0.0592 | 5/8 | 0.003 [b] |
| Cadmium | 0.058 J - 0.149 | 2/8 | 0.005 [a] |
| Chromium | 0.0133 J - 4.87 | 5/8 | 0.05 [a] |
| Copper | 0.055 - 9.43 | 6/8 | 0.2 [a] |
| Iron | 147 - 3,940 | 4/8 | 0.3 [a] |
| Lead | 0.0196 - 4.68 | 8/8 | 0.015 [c] |
| Manganese | 0.693 - 293 | 8/8 | 0.05 [d] |
| Mercury | 0.00005 J - 0.00351 J | 1/8 | 0.0007 [a] |
| Nickel | 0.0186 J - 2.48 | 4/8 | 0.1 [a] |
| Selenium | 0.00083 J - 0.155 | 4/8 | 0.01 [a] |
| Silver | 0.0062 J - 0.161 J | 2/8 | 0.05 [a] |
| Thallium | 0.0044 J - 0.0054 | 2/8 | 0.0005 [b] |
| Zinc | 0.095 - 15.1 | 6/8 | 2 [a] |
| **Wet Chemistry** | | | |
| Petroleum Hydrocarbons | 0.11J -28 | 8/8 | 0.1[a] |

[a] NYSDEC Class GA groundwater standard; June 1998
[b] NYSDEC Class GA groundwater guidances; June 1999
[c] RCRA corrective action levels
[d] Federal secondary maximum contaminat level
[e] Federal primary maximum contaminat level

Key:
D = Indicates compounds identified in an analysis from a diluted sample
J = Estimated concentration*

* Estimated concentrations are typically due to measuring very low levels below the quantitation limit but above the detection limit or due to a quality control concern identified by a data reviewer.

**Table 2**
**COMPOUNDS EXCEEDING STANDARDS AND GUIDANCE VALUES**
**BUILDING 255 DRYWELLS**
**SUBSURFACE SOIL SAMPLES**

| Compound | Range of Detected Concentrations | Frequency of Detection Above Most Stringent Criterion | Most Stringent Criterion |
|---|---|---|---|
| **VOCs (µg/kg)** | | | |
| Acetone | 2 J - 71,000 | 2/63 | 200 [a] |
| Ethylbenzene | 1 J - 46,000 | 2/63 | 5,500 [a] |
| Methylene Chloride | 2 J - 2,100 J | 1/63 | 100 [a] |
| Toluene | 1 J - 550,000 | 5/63 | 1,500 [a] |
| Trichloroethylene (TCE) | 5 J - 13,000 | 1/63 | 700 [a] |
| Xylenes | 1 J - 550,000 | 5/63 | 1,200 [a] |
| **SVOCs (µg/kg)** | | | |
| 1,2-Dichlorobenzene | 19,000 J - 29,000 J | 2/63 | 7,900 [a] |
| Benzo(a)anthracene | 37 J - 1,500 J | 8/63 | 224 [a] |
| Benzo(a)pyrene | 67 J - 1,900 | 21/63 | 61 [a] |
| Benzo(b)fluoranthene | 130 J - 2,300 J | 3/63 | 1,100 [a] |
| Bis(2-ethylhexyl)phthalate | 48 J - 140,000 J | 2/63 | 50,000 [a] |
| Chrysene | 40 J - 6,900 J | 6/63 | 400 [a] |
| Di-n-butyl phthalate | 37 J - 16,000 J | 2/63 | 8,100 [a] |
| Dibenzo(a,h)anthracene | 430 | 1/63 | 14 [a] |
| Naphthalene | 47 J - 520,000 | 2/63 | 13,000 [a] |
| **Pesticides/PCBs (µg/kg)** | | | |
| Endrin | 0.41 J - 109 | 1/64 | 100 [a] |
| PCB-1260 (Aroclor 1260) | 17.4 J - 2,380 | 4/64 | 90 [b] |
| **Metals (mg/kg)** | | | |
| Antimony | 1.8 J -155 | 3/63 | 3.4 [c] |
| Arsenic | 2.1 J - 49 | 35/63 | 4.9 [c] |
| Barium | 11.2 J - 1,420 | 3/63 | 300 [a] |
| Beryllium | 0.076 J - 0.66 | 1/63 | 0.65 [c] |
| Cadmium | 0.22 J - 96.7 | 6/63 | 1.1 [c] |
| Calcium | 579 - 76,700 | 5/63 | 23,800 [c] |
| Total chromium | 5.1 J - 1,690 | 9/63 | 22.6 [c] |
| Cobalt | 3.5 J - 30.6 | 1/63 | 30 [a] |
| Copper | 13 - 4,900 | 11/63 | 43 [c] |
| Lead | 1.8 - 20,000 | 16/63 | 36.2 [c] |
| Magnesium | 1,610 J - 8,540 J | 2/63 | 7,180 [c] |
| Manganese | 160 - 2,210 | 2/63 | 2,110 [c] |
| Mercury | 0.014 J - 1.77 | 5/63 | 0.1 [a] |
| Nickel | 5.98 J - 72.2 | 4/63 | 46.1 [c] |
| Silver | 0.36 J - 13.6 | 13/63 | 1.1 [c] |
| Sodium | 24 J - 443 | 1/63 | 259 [c] |
| Zinc | 23 - 6.730 | 7/63 | 120 [c] |

[a] NYS-recommended soil cleanup objectives
[b] Proposed RCRA corrective action levels
[c] Backgroung screening concentration

Key:
J = Estimated concentration

**Table 3**
**BUILDING 255 DRYWELLS AOC**
**RISK ASSESSMENT EXPOSURE SCENARIOS**

| UTILITY AND CONSTRUCTION WORKERS | INDUSTRIAL WORKER |
|---|---|
| • Inhalation of airborne chemicals<br>• Inhalation of fugitive dust from soils<br>• Incidental ingestion of soil<br>• Dermal contact with soil | • Ingestion of groundwater<br>• Dermal contact with groundwater (during showering)<br>• Inhalation of VOCs from groundwater (during showering) |

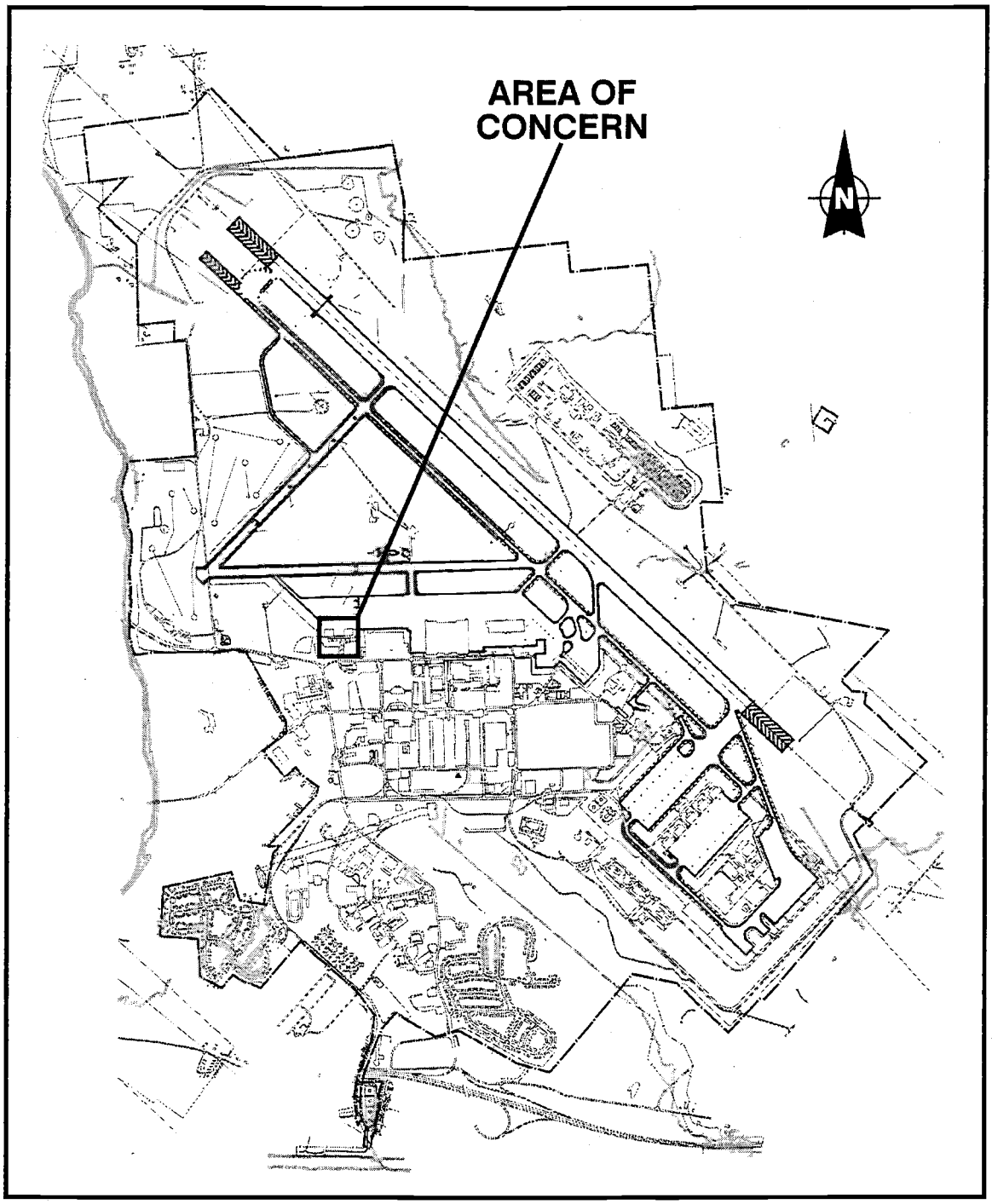


**Figure 1 Building 255 Drywell AOC Location Map**

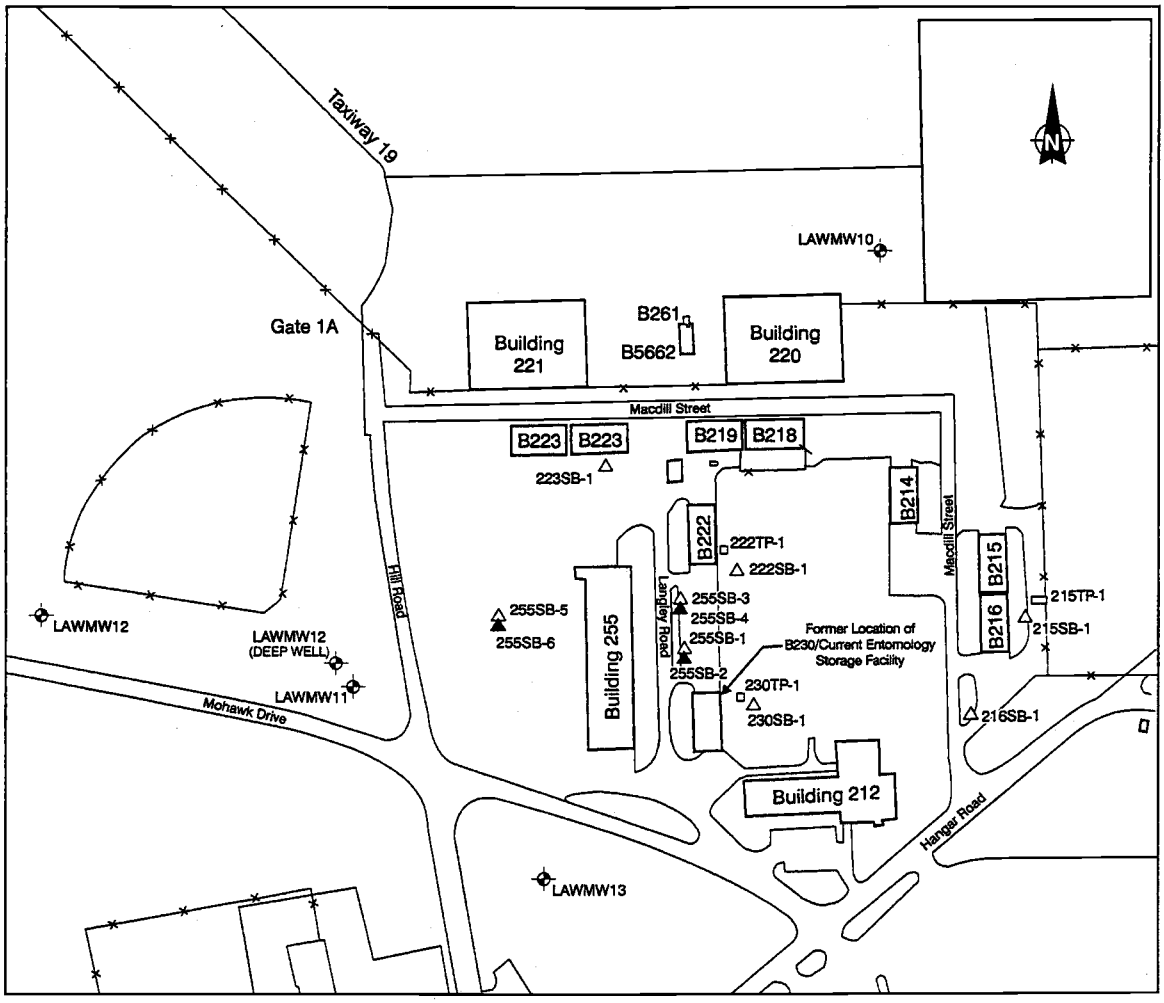


**Figure 2 Building 255 Drywell AOC Site Map**

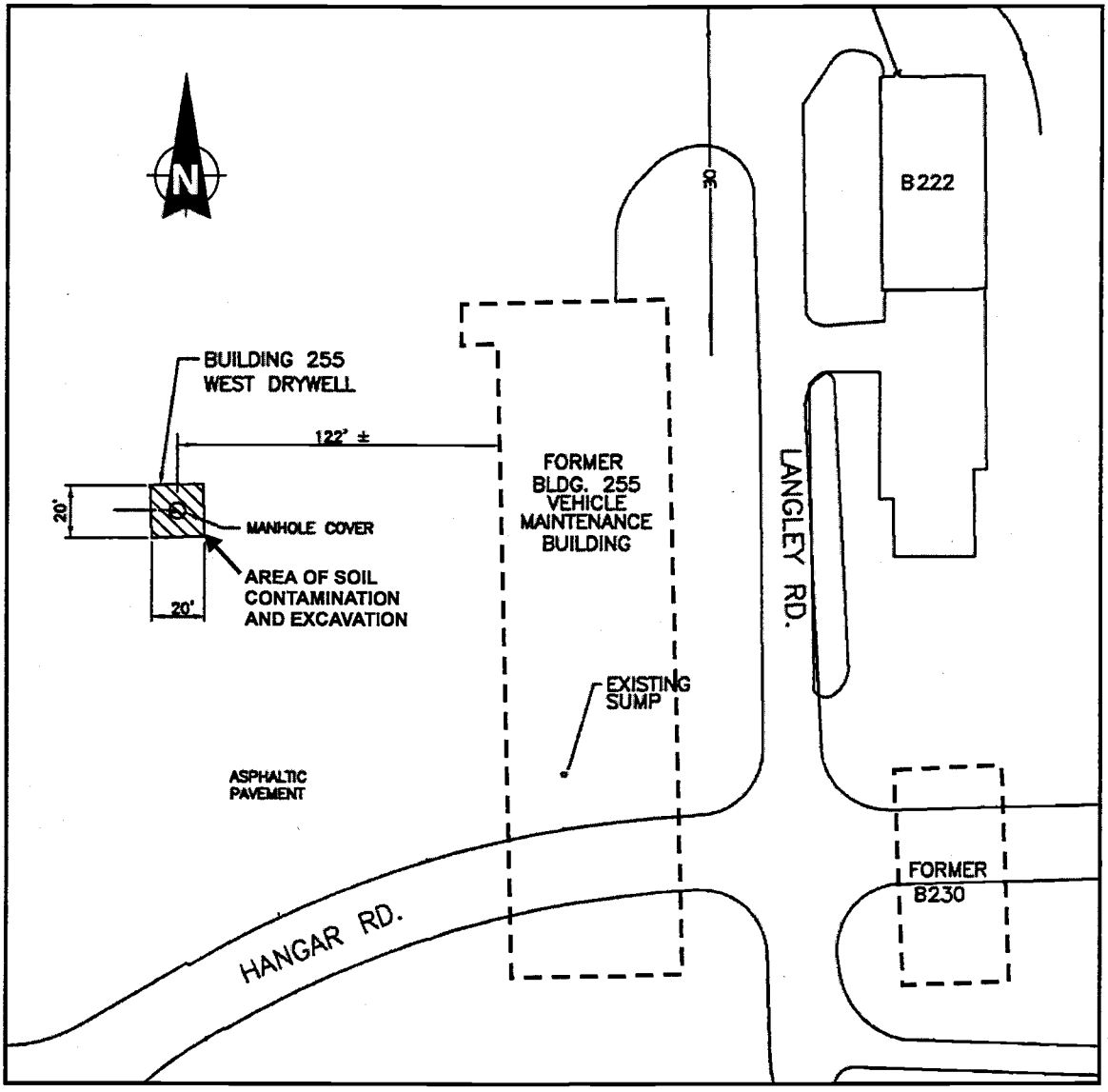


**Figure 3 Building 255 Drywell AOC Interim Remedial Action**

# 3 Responsiveness Summary

On Friday, February 9, 2001, AFBCA, following consultation with and concurrence of the EPA and NYSDEC, released for public comment the proposed plan for no further action for soil with land use restrictions at the Building 255 Drywell AOC at the former Griffiss Air Force Base. The release of the proposed plan initiated the public comment period, which concluded on March 11, 2001.

During the public comment period, a public meeting was held on Thursday, March 1, 2001, at 5:00 p.m. at the Floyd Town Hall located at 8299 Old Floyd Road, Rome, NY. A court reporter recorded the proceedings of the public meeting. A copy of the transcript and attendance list are included in the Administrative Record. The public comment period and the public meeting were intended to elicit public comment on the proposal for remedial action at the site.

This document summarizes and provides responses to the verbal comments received at the public meeting and the written comments received during the public comment period.

**Comment #1 (oral - Carmen Malagisi)**

Mr. Malagisi requested an explanation of the five-year review process and whether there was a termination criteria for the five-year review.

**Response #1**

The five-year review is conducted by the Air Force, in conjunction with the EPA and NYSDEC, to assure that human health and the environment are being protected by the remedial actions being implemented. In this case, the review will ensure that the land use is in compliance with industrial/commercial use, deed restrictions remain in place and that the cleanup standards used in the ROD are still appropriate. During the first five-year review, and any subsequent review, if it is determined that conditions at a portion of the site have improved such that it meets unlimited and unrestricted use, then that portion of the site can be excluded from future review. However, it is the policy of the EPA that five-year reviews be conducted on a site-wide basis whenever any portion of a site requires a review.

**Comment #2 (oral - John Fitzgerald)**

Mr. Fitzgerald asked if it was possible to have only one five-year review.

**Response #2**

At a minimum, one five-year review will be conducted. During that five-year review, it could be decided that no additional reviews are necessary.

**Comment #3 (oral - John Fitzgerald)**

Mr. Fitzgerald asked if there would be a record of when the five-year reviews will occur.

**Response #3**

CERCLA regulations do not require that the public be an active participant in the five-year reviews, but they do require that the results of the five-year reviews be made available to the public in the Information Repository. EPA guidance, however, suggests that the public be consulted during the five-year review process. While the Air Force has an active presence at the former Griffiss AFB, the Restoration Advisory Board (RAB) will be informed of and invited to participate in the five-year reviews.

**Comment #4 (oral - John Fitzgerald)**

For the record, Mr. Fitzgerald noted that he and other residents have concerns about the groundwater, but they understand that those issues will be addressed at a later time.

# 4 References

Agency for Toxic Substances and Diseases Registry (ATSDR), 1995, *Public Health Assessment for Griffiss Air Force Base, Rome, Oneida County, New York*, CERCLIS NY4571924451, prepared for U.S. Department of Health and Human Services, Public Health Service, Albany, New York.

_____, 1988, *Health Assessment for Griffiss Air Force Base, Rome, New York*, prepared for U.S. Department of Health and Human Services, Public Health Service, Albany, New York.

Air Force Base Conversion Agency (AFBCA), February 2001, Proposed Plan Building 255 AOC, Rome, New York.

Corey, Michael, January 1994, *1993 Inventory of Rare Plant Species and Significant Natural Communities at Griffiss Air Force Base in Rome, New York*, prepared for the New York Natural Heritage Program.

Engineering Science, July 1981, *Installation Restoration Program Phase I, Records Search, Hazardous Materials Disposal Site*, prepared for United States Air Force, AFESC/DEVP, Tyndall Air Force Base, Florida.

Geotech, February 1991, *Hydrogeology Study Report, Griffiss AFB, Rome, New York*, Grand Junction, Colorado.

Law Engineering and Environmental Services, Inc., December 1996, *Draft-Final Primary Report, Volume 21, Remedial Investigation, Griffiss Air Force Base, New York*, Contract No. DACA41-92-D-8001, Kennesaw, Georgia.

New York State Department of Environmental Conservation (NYSDEC), 1994, *Technical and Administrative Guidance Memorandum (TAGM) 4046: Determination of Soil Cleanup Objectives and Soil Cleanup Levels*.

Ocuto Blacktop and Paving Environmental Services, February 2000, *Closure Certification Report for Interim Remedial Action at Buildings 20, 112, 222, and 255*, prepared for United States Army Corps of Engineers, Contract No. DACA41-97-C-8001, Rome, New York.

U.S. Environmental Protection Agency (USEPA), 1986, *Superfund Amendments and Reauthoriztion Act (SARA)*, 41 U.S.C. 9601 et seq., Washington D.C.

_____, 1980, *Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)*, 42 U.S.C. s/s 9601 et seq., Washington D.C.

_____, 1968, *National Oil and Hazardous Substances Pollution Contingency Plan (NCP)*, 40 CFR 300, Washington D.C.

Weston, November 1985, *Installation Restoration Program Phase II - Problem Confirmation and Quantification Study Stage 2, Griffiss Air Force Base, Rome, New York*, prepared for United States Air Force, Brooks AFB, Texas.

_____, December 1982, *Installation Restoration Program Phase II - Problem Confirmation and Quantification Study Stage 1, Griffiss Air Force Base, Rome, New York*, prepared for United States Air Force, Brooks AFB, Texas.

# FINAL PAGE

# ADMINISTRATIVE RECORD

# FINAL PAGE

# Appendix B
# Groundwater Restriction Removal Approval

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

May 16, 2012

Mr. Michael McDermott
BRAC Environmental Coordinator
Air Force Real Property Agency
428 Phoenix Drive
Rome, NY 13441-4105

Re: Removal of Groundwater Deed Restrictions
Tin City – Bldg. 214, Bldg. 219, Bldg. 222 & Bldg 255
Former Griffiss AFB, Rome NY

Dear Mr. McDermott:

The U.S. Environmental Protection Agency (EPA) has reviewed your request to remove the groundwater restrictions from the deed(s) at the area known as Tin City, located at the former Griffiss AFB in Rome, New York.

As you are aware, groundwater restrictions and further investigative work were required as part of the selected remedies for certain Areas of Concern (i.e., Bldg. 214; Bldg. 219; Bldg. 222; & Bldg 255) located in the Tin City area. These restrictions and further investigative work were required as part of the remedies and documented in the CERCLA Records of Decision (RODs), dated Sept. 30, 1999 (Bldgs. 214 & 219) and Sept 27, 2001 (Bldgs. 222 & 255).

Since the selection of these remedies, the relevant properties have been transferred and the restrictions were incorporated into the appropriate deeds, and the required additional work has been performed. Based upon this subsequent work, EPA then approved an Explanation of Significant Differences (ESD) concerning the remedy for Bldgs 214, 219, 222 and 255, which is a modification to the selected remedy, which is dated Sept. 26, 2003. The ESD acknowledges that the remedy has achieved NYSDEC Groundwater Standards, and thus EPA approved the removal of the groundwater monitoring requirement from the remedies. Furthermore, annual land use and institutional control certifications were performed, as well as CERCLA-mandated Five-Year reviews, with results indicating that the remedies remain protective of human health and the environment.

Therefore, based upon this information (i.e. the remedies, the ESD, the Five-Year Reviews, the annual land use and institutional control certification reports, and recent Long-Term Monitoring data), EPA concurs with your request to remove the groundwater restrictions from the applicable deed(s). This approval is only for this request and does not applied to any other requirements of the RODs or ESD.

Should you have any questions, please contact Douglas Pocze, of my staff, at (212) 637-4432.

Sincerely,

John S. Malleck, Chief
Federal Facilities Section

## MCDERMOTT, MICHAEL F GS-13 USAF DoD AFCEE/EXC

**From:** Heather Bishop <hlbishop@gw.dec.state.ny.us>
**Sent:** Tuesday, April 24, 2012 1:30 PM
**To:** Pocze.Doug@epamail.epa.gov; MCDERMOTT, MICHAEL F GS-13 USAF DoD AFCEE/EXC
**Cc:** John Swartwout
**Subject:** Re: Groundwater Deed Restriction Removal

Mike,
We (NYSDEC and NYSDOH) have reviewed the request for the deed restriction removal for Tin city and SS017 Lot 69. We have no comments or problems with the request and can go forward with it. Please let me know if you need more information.
Thanks -Heather

Heather Bishop
NYSDEC
Division of Environmental Remediation
Remedial Bureau A
625 Broadway, 11th Floor
Albany, NY 12233-7015
Phone: (518) 402-9692
Fax : (518) 402-9022>>> "MCDERMOTT, MICHAEL F GS-13 USAF DoD AFCEE/EXC" <michael.mcdermott.1@us.af.mil> 3/30/2012 11:11 AM >>> Doug, Heather, Any word on the groundwater deed restriction removal request for Tin city and SS017 Lot 69? I will be in San Antonio next Monday, Tuesday and Wednesday; just like to know where we stand.

"//SIGNED//"
Michael McDermott
Air Force Center for
Engineering and the Environment
Building 770
428 Phoenix Drive
Rome, New York 13441
Phone: 315-356-0810, ext. 202
FAX: 315-356-0816
email: michael.mcdermott.1@us.af.mil

# Appendix C
# Daily Chemical Quality Control Reports

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**Daily Chemical Quality Control Report**

Project/Delivery Order Number: 1015-11-01 Date: 5/6/2013

Project Name/Site Number: Site Closure Sampling at Building 301 AOC / DP012, Building 255 / DP013, Building 214 / SD050, and DP015 / Building 219

Weather conditions: Temperature: 76 F Barometric reading: 30.22
Wind speed and direction: 13 mph
Significant wind changes: none

General description of tasks completed: Soil Sampling with geoprobe.

Explain any departures from the SAP or deviations from approved procedures during the day's field activities: None

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: None

Corrective actions taken or instructions obtained from AFCEE/USACE personnel: No corrective actions necessary.
None

Sampling shipment completed: √ Yes □ No Airbill #: .... .... ....

DCQCR Prepared by: Daniel Baldyga Date: 5/6/13

CQCC Signature: Daniel Baldyga Date: 5/6/13

ATTACHMENTS:

| Checklist | Daily Chemical Quality Control Report Attachments |
|---|---|
| | ✓ Field sampling forms |
| | ✓ Equipment Calibration Log |
| | ✓ Copies of COCs |
| | ✓ SDG Table (See accompanying COCs). |
| | ✓ Daily Health and Safety Meeting Form |

# SOIL / SEDIMENT SAMPLING FORM

Project: 214 SITE CLOSURE Sampled by: MG / JD

Site and Site Code (**SITEID**): 1015 - 11 - 01

Sampling Location ID. (**LOCID**): B214SCS6-2

Date (**LOGDATE**): 5/6/13 Time: 1355

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>2' REC | 0.0' - 0.4' TOPSOIL: LT BROWN, MOIST, SILT, LITTLE GRAVEL.<br>0.4' - 2.0' BROWN, MOIST, F-C GRAVEL, LITTLE SILT, LITTLE SAND |
| 4 - 8<br><br>1.5' REC | 0.0' - 1.5' BROWN, MOIST, F-C GRAVEL, SOME SAND, LITTLE SILT. |
| 8 - 12<br><br>2.5' REC | 0.0' - 2.5' BROWN, MOIST TO WET, F-C GRAVEL, SOME SAND, TR. SILT |

**Comments/Observations:**

Sample Time: 1406 Sample ID: B214SCS0204AA

Sample Time: 1408 Sample ID: B214SCS0208AA

Sample Time: 1411 Sample ID: B214SCS0212AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 214 SITE CLOSURE Sampled by: MG/JD

Site and Site Code (**SITEID**): 1015 - 11 - 01

Sampling Location ID. (**LOCID**): B214SCS-3

Date (**LOGDATE**): 5/6/13 Time: 1345

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>2.3' REC | 0.0' - 0.3' TOPSOIL: D. BROWN, MOIST, SILT, SOME FINE SAND.<br>0.3' - 1.4' BROWN, MOIST, F-M SAND, SOME GRAVEL, TR. SILT<br>1.4 - 2.3' CRUSHED STONE. ~~1.4 - 2.3' [illegible]~~ |
| 4 - 8<br><br>1.5' REC | 0.0' - 0.4' CRUSHED STONE<br>0.4' - 1.5' D. BROWN, MOIST, F-C GRAVEL, SOME SAND TR. SILT |
| 8 - 12<br><br>1.1' REC | 0.0' - 1.1' ~~[illegible]~~ D. BROWN, MOIST TO WET, F-C SAND, SOME GRAVEL, TR. SILT. |

**Comments/Observations:**

Sample Time: 1357 Sample ID: B214SCS0304AA

Sample Time: 1359 Sample ID: B214SCS0308AA

Sample Time: 1403 Sample ID: B214SCS0312AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 214 SITE CLOSURE Sampled by: MG | JD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B214SCS-4

Date (**LOGDATE**): 5/6/13 Time: 1335

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>0.8' REC | 0.0' - 0.6' TOPSOIL: BROWN, DRY, FINE SAND, SOME SILT.<br>0.6' - 0.8' LT. BROWN, MOIST, FINE SAND, TR. (B) |
| 4 - 8<br><br>1.2' REC | 0.0' - 0.3' S.A.A.<br>0.3' - 1.2' D. BROWN, MOIST, F-C GRAVEL, SOME SAND, TR. CLAY |
| 8 - 12<br><br>2.4' REC | 0.0' - 1.2' S.A.A.<br>1.2' - 2.4' D. BROWN, WET, F-C GRAVEL, SOME SAND, TR CLAY |

**Comments/Observations:**

Sample Time: 1345 Sample ID: B214SCS0404AA

Sample Time: 1349 Sample ID: B214SCS0408AA

Sample Time: 1353 Sample ID: B214SCS0412AA/AC

(1355)

# SOIL / SEDIMENT SAMPLING FORM

Project: B 219 CLOSURE Sampled by: MG/JD

Site and Site Code (**SITEID**): 1015 - 11-01

Sampling Location ID. (**LOCID**): B219 SCS - A 1

Date (**LOGDATE**): 5/6/03 Time: 1140

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>1.2' REC | 0' - 0.4' TOPSOIL: LT. BROWN, DRY, SILT, LITTLE GRAVEL, TR SAND.<br>0.4' - 1.2' BROWN, F-C SAND, SOME GRAVEL, TR. CLAY |
| 4 - 8<br><br>1.5' REC | 0' - 1.5' BROWN, MOIST, F-C GRAVEL, SOME SAND, TR. CLAY |
| 8 - 12<br><br>1.5' REC | 0 - 1.5' BROWN, WET, S.A.A. |

**Comments/Observations:**

Sample Time: ~~1153~~ 1153 Sample ID: B219SCS0104AA

Sample Time: ~~1156~~ 1156 Sample ID: B219SCS0108AA

Sample Time: ~~1200~~ 1200 Sample ID: B219 SCS 0112AA

# SOIL / SEDIMENT SAMPLING FORM

Project: B 219 CLOSURE Sampled by: MG LOD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B219SCS - 2

Date (**LOGDATE**): 5/6/13 Time: 1149

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>1.4' REC | 0' - 0.4' TOPSOIL; LT. BROWN, DRY, SILT, LITTLE SAND, TR. SAND.<br>0.4 - 1.4' BROWN, MOIST, F-C GRAVEL, LITTLE SAND, LITTLE SILT |
| 4 - 8<br><br>0.7' REC | 0.0 - 0.7' S.A.A. WET AT BOTTOM 0.1'. |
| 8 - 12<br><br>1.7' REC | 0.0' - 0.8' S.A.A. (MOIST)<br>0.8' - 1.7' BROWN, WET, F-C SAND, SOME GRAVEL, TR. SILT. |

**Comments/Observations:**

Sample Time: 1208 Sample ID: B219SCS0204AA

Sample Time: 1211 Sample ID: B219SCS0208AA

Sample Time: 1215 Sample ID: B219SCS0212AA

# SOIL / SEDIMENT SAMPLING FORM

Project: B219 CLOSURE Sampled by: MA / JD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B219SCS-3

Date (**LOGDATE**): 5/6/13 Time: 1200

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4<br><br>2.2' REC | 0.0'-0.3' TOPSOIL: LT. BROWN, DRY, FINE SAND, SOME SILT, TR GRAVEL<br>0.3'-1.3' BROWN, DRY, F-C SAND, SOME GRAVEL, LITTLE SILT<br>1.3'-1.9' LT BROWN, FINE SAND.<br>1.9'-2.2' BROWN, MOIST, GRAVEL, SOME SAND, TR. CLAY |
| 4-8<br><br>1.0' REC | 0-0.4' LT. BROWN, MOIST, FINE SAND.<br>0.4'-1.0' GRAVEL (F-C), LITTLE CLAY, LITTLE SAND |
| 8-12<br><br>1.8' REC | 0.0-1.8' BROWN, MOIST TO WET, F-C GRAVEL, SOME SAND, TR SILT, TR CLAY |

**Comments/Observations:**

Sample Time: 1217 Sample ID: B219SCS0304AA / AS / AD

Sample Time: 1221 Sample ID: B219SCS0508AA

Sample Time: 1225 Sample ID: B219SCS0312AA

# SOIL / SEDIMENT SAMPLING FORM

Project: B219 CLOSURE Sampled by: MG / JD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B219SCS - 01

Date (**LOGDATE**): 5/6/13 Time: 1129

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>2' REC | 0' - 0.3' TOPSOIL: BROWN, DRY SILT, LITTLE F SAND.<br>0.3' - 0.6' CRUSHED STONE<br>0.6' - 2.0' BROWN, DRY TO MOIST, F-C SAND, SOME GRAVEL, TRACE CLAY |
| 4 - 8<br><br>1.8' REC | 0' - 0.5' COBBLE, CRUSHED STONE.<br>0.5' - 1.8' BROWN, MOIST TO WET, F-C SAND, SOME GRAVEL, LITTLE TO TR. CLAY |
| 8 - 12<br><br>2.5' REC | 0' - 2.3' S.A.A.<br>2.3' - 2.5' SILT (BROWN, WET). |

**Comments/Observations:**

Sample Time: 1140 Sample ID: B219SCS0401AA

Sample Time: 1143 Sample ID: B219SCS0408AA

Sample Time: 1145 Sample ID: B219SCS0412AA / AC (1146)

# SOIL / SEDIMENT SAMPLING FORM

Project: B 219 Closure Sampled by: MA / SD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B219SCS-5

Date (**LOGDATE**): 5/6/13 Time: 1115

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>1.9' REC | 0' - 0.8' TOPSOIL: BROWN, DRY, FINE SAND, SOME SILT, LITTLE GRAVEL.<br>0.8' - 1.9', BROWN, MOIST F-C SAND, SOME GRAVEL, LITTLE CLAY. WET AT 1.6 - 1.9' |
| 4 - 8<br><br>1.3' REC | 0.0 - 1.3' BROWN, WET, F-C GRAVEL, SOME SAND, TR CLAY. |
| 8 - 12<br><br>1.5' REC | 0.0 - 1.5' BROWN, WET, F-C GRAVEL, SOME SAND, LITTLE SILT, TR. CLAY. |

**Comments/Observations:**

Sample Time: 1129 Sample ID: B219SCS0504AA

Sample Time: 1133 Sample ID: B219SCS0508AA

Sample Time: 1137 Sample ID: B219SCS0512AA

# SOIL / SEDIMENT SAMPLING FORM

Project: B219 CLOSURE Sampled by: MG/JD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B219SCS-6

Date (**LOGDATE**): 5/6/13 Time: 1111

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br>2' REC | 0'-0.5' TOPSOIL: BROWN, DRY, SILT, LITTLE F. SAND.<br>0.5'-2.0' BROWN, MOIST, SILTY CLAY, SOME F-C GRAVEL, LITTLE SAND. |
| 4 - 8<br>1.7' REC | 0'-1.3' BROWN, MOIST TO WET, F-C GRAVEL, SOME F-M SAND, TR. CLAY<br>1.3'-1.7' COBBLE FRAGMENTS. |
| 8 - 12<br>2' REC | 0'-2.0' BROWN, MOIST TO WET, F-C SAND, SOME GRAVEL, TR. SILT. |

**Comments/Observations:**

UTILITIES EVERYWHERE, MOVE ~ 2' SOUTH.

Sample Time: 1119 Sample ID: B219SCS0604AA

Sample Time: 1124 Sample ID: B219SCS0608AA

Sample Time: 1127 Sample ID: B219SCS0612AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 255 SITE CLOSURE Sampled by: MG / JD

Site and Site Code (**SITEID**): 1015 - 11 - 01

Sampling Location ID. (**LOCID**): B255SCS - 1

Date (**LOGDATE**): 5/6/13 Time: 1430

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color | |
|---|---|---|
| 0 - 4<br>3.2' REC | 0.0' - 0.3' TOPSOIL: BROWN, MOIST, SILT, LITTLE F. SAND<br>0.3'-0.9' LT. BROWN, MOIST, FINE SAND, LITTLE CLAYEY SILT.<br>0.9' - 1.4' ASPHALT.<br>1.4' - 3.2' BROWN, MOIST, F-C SAND, SOME GRAVEL, TR. SILT | PID: < 110 PPB |
| 4 - 8<br>2.0' REC | 0.0' - 1.2' D-BROWN, MOIST, F SAND, SOME SILTY CLAY, LITTLE GRAVEL.<br>1.2' -2.0' BROWN, MOIST, F-M SAND, SOME GRAVEL, TR. CLAY | < 40 PPB |
| 8 - 12<br>1.8' REC | 0.0' - 1.8' BROWN TO RED BROWN, MOIST, F-C GRAVEL, SOME SAND, TR. TO LITTLE CLAY. | < 40 PPB |

**Comments/Observations:**

NO STAINING OBSERVED, NO ODORS

Sample Time: 1440 Sample ID: B255SCS0104AA/AC (1442)

Sample Time: 1455 Sample ID: B255CS0108AA

Sample Time: 1500 Sample ID: B255CS0112AA

PID: ZERO: 0.0
CAL: 10.2 PPM

# SOIL / SEDIMENT SAMPLING FORM

Project: 255 SITE CLOSURE Sampled by: MG / JD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B255-SCS-2

Date (**LOGDATE**): 5/6/13 Time: 1450

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color | PID |
|---|---|---|
| 0-4<br><br>2.7' REC | 0'-0.5' TOPSOIL: BROWN, DRY, SILT, SOME SAND, LITTLE GRAVEL.<br>0.5'-1.4' LT. BROWN, MOIST, FINE SAND, LITTLE SILT. 1.4-1.5': ASPHALT<br>1.5-2.7' D. BROWN, MOIST, F-C SAND, SOME GRAVEL, TR. CLAY | < 2391 PPb |
| 4-8<br><br>1.3' REC | 0.0'-0.8' D. BROWN, MOIST, F SAND, SOME GRAVEL, LITTLE CLAY<br>0.8'-1.3' LT. BROWN, MOIST, F-C GRAVEL, SOME SAND, LITTLE CLAY. | < 221 PPb |
| 8-12<br><br>1.6' REC | 0.0'-1.2' S.A.A.<br>1.2'-1.5' CRUSHED STONE<br>1.5'-1.6' RUST BROWN, WET, F-C SAND, LITTLE CLAY. | < 451 PPb |

**Comments/Observations:**

NO STAINING OBSERVED. NO ODOR!

Sample Time: 1515 Sample ID: B225SCS0204AA

Sample Time: 1519 Sample ID: B225SCS0208AA

Sample Time: 1525 Sample ID: B225SCS0212AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 255 SITE CLOSURE Sampled by: MA / JD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B255 SCS-3

Date (**LOGDATE**): 5/6/13 Time: 1505

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color | PID |
|---|---|---|
| 0-4<br>2.8' REC | 0'-0.4' TOPSOIL: BROWN, DRY, SILT, TR SAND, TR GRAVEL<br>0.4'-0.9' LT. BROWN, MOIST, F SAND, LITTLE GRAVEL, TR. SILT<br>0.9'-1.8' ASPHALT<br>1.8'-2.8' BROWN, MOIST, F-C SAND, SOME GRAVEL, LITTLE CLAY, TR. SILT | < 146 PPb @ ASPHALT |
| 4-8<br>1.6' REC | 0.0'-0.8' S.A.A.<br>0.8'-0.9' CRUSHED COBBLE<br>0.9'-1.2' BROWN, MOIST, SILTY CLAY, SOME GRAVEL<br>1.2'-1.6' CRUSHED STONE (COBBLE) | < 5 PPb |
| 8-12<br>1.8' REC | 0.8'-1.8' BROWN, MOIST, F-C+ SAND, SOME GRAVEL, LITTLE (-) CLAY.<br>WET AT BOTTOM | < 5 PPb |

**Comments/Observations:**

NO STAINING OBSERVED, NO ODOR.

Sample Time: 1545 Sample ID: B255SCS0304AA

Sample Time: ~~1552~~ 1552 Sample ID: B255SCS0308AA

Sample Time: 1559 Sample ID: B255SCS0312AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 301 CLOSURE Sampled by: MG / JS

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B301SCS-01

Date (**LOGDATE**): 5/6/13 Time: 0940

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br>2.4' REC | 6-6" TOPSOIL, F-M SAND, LITTLE SILT, TR. GRAVEL. DRY, DARK BR.<br>6"-12" TAN, DRY, F-C GRAVEL, SOME F-M SAND, TR. SILT.<br>12"-2.4' DARK BROWN, MOIST, F-C SAND, SOME GRAVEL, TR. CLAY W/ COBBLES<br>TAR @ 1.8' BGS |
| 4 - 8<br>10" REC | 0"-10" BROWN, MOIST, F-C GRAVEL, SOME SAND, TR SILT. |
| 8 - 12<br>3" REC | 0-3" REDDISH BROWN, MOIST TO WET, F-C SAND, SOME GRAVEL, TR. SILT.<br>LARGE COBBLE @ 2' |

**Comments/Observations:**

Sample Time: 0948 Sample ID: B301SCS0104AA

Sample Time: 0955 Sample ID: B301SCS0108AA

Sample Time: 1002 Sample ID: B301SCS0112AA/AC/AS/AD (1008)

# SOIL / SEDIMENT SAMPLING FORM

Project: 301 SITE CLOSURE Sampled by: MG / JD

Site and Site Code (**SITEID**): B 301

Sampling Location ID. (**LOCID**): B301SCS-02

Date (**LOGDATE**): 5/6/13 Time: 1010

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4<br><br>2.5' REC | 0' - 0.9' BROWN, DRY, TOPSOIL: F-C SAND, SOME SILT, LITTLE GRAVEL<br>0.9 - 2.0' DARK BROWN, MOIST, CLAYEY SILT, LITTLE SAND, LITTLE GRAVEL.<br>2.0' - 2.5' RUST ORANGE, MOIST, F-C GRAVEL, LITTLE SAND, TR. SILT. |
| 4 - 8<br><br>1.5' REC | 0' - 0.8' BROWN, MOIST, F-M SAND, SOME GRAVEL, LITTLE SILT.<br>0.8' - 1.2' CRUSHED COBBLE / GRAVEL<br>1.2' - 1.5' BROWN, WET TO MOIST, F-C+ SAND, SOME GRAVEL TR. SILT. |
| 8 - 12<br><br>2' REC | 0' - 0.4' CRUSHED COBBLE / GRAVEL<br>0.4' - 2.0' BROWN / DARK BROWN, WET, F-C+ SAND, SOME GRAVEL, TR. SILT. |

**Comments/Observations:**

ID TIME

Sample ~~Time~~: B301SCS0204AA Sample ~~ID~~: 1025

Sample ~~Time~~: B301SCS0208AA Sample ~~ID~~: 1027

Sample ~~Time~~: B301SCS0212AA Sample ~~ID~~: 1031

# SOIL / SEDIMENT SAMPLING FORM

Project: 301 CLOSURE Sampled by: MG / JD

Site and Site Code (**SITEID**): 1015-11-01

Sampling Location ID. (**LOCID**): B301SCS-03

Date (**LOGDATE**): 5/6/17 Time: 0950

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0 - 4 2.5' REC | 0'-1' BROWN, DRY TOPSOIL: F-M SAND, LITTLE SILT, LITTLE GRAVEL. 1'-1.8' BROWN, DRY, F-M SAND, LITTLE GRAVEL, LITTLE SILT. 1.8'-2.5' DRK BROWN, CLAYEY SILT, LITTLE F SAND, TR. GRAVEL |
| 4 - 8 2' REC | 0'-2' DRK BROWN, MOIST, SILTY CLAY, SOME GRAVEL, TR. TO LITTLE F SAND. |
| 8 - 12 0.5' REC | 0'-0.5' BROWN, WET, F-C GRAVEL, SOME SAND. TR SILT, TR CLAY. |

**Comments/Observations:**

Sample Time: 1012 Sample ID: B301SCS0304AA

Sample Time: 1016 Sample ID: B301SCS0308AA

Sample Time: 1029 Sample ID: B301SCS0312AA

# CHAIN OF CUSTODY RECORD

COC#: _4_ SDG#: 2/3 (Open/Closed) Cooler ID#: _A_

| | | |
|---|---|---|
| Ship to:<br>Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Project Name: Griffiss AFB DP013 Building 255 | Send Results to:<br>Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | Sampler Name: Justin Damann<br>Sampler Signature: | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | VOCs: note 3, 4 oz. jar | Metals: note 4, 4 oz glass jar | VOCs note 3 40mL vials (HCl) | Metals note 4 250 mL poly ($HNO_3$). | Pesticides note 2 1 L amber bottle | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B255SCS0104AA | B255SCS-1 | 5/6 | 1440 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0108AA | B255SCS-1 | 5/6 | 1455 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0112AA | B255SCS-1 | 5/6 | 1500 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0204AA | B255SCS-2 | 5/6 | 1515 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0208AA | B255SCS-2 | 5/6 | 1519 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0212AA | B255SCS-2 | 5/6 | 1525 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0304AA | B255SCS-3 | 5/6 | 1545 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0308AA | B255SCS-3 | 5/6 | 1552 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0312AA | B255SCS-3 | 5/6 | 1559 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0104AC | B255SCS-1 | 5/6 | 1442 | SO | G | FD | 0/0 | 2 | 1 | 1 | | | | |
| 050613AE | FIELDQC | 5/6 | 1630 | WQ | G | EB | 0/0 | 6 | | | 3 | 1 | 2 | |
| 050613AF | FIELDQC | 5/6 | 1530 | WQ | NA | AB | 0/0 | 3 | | | 3 | | | |
| 050613AR | FIELDQC | 5/6 | 0900 | WQ | NA | TB | 0/0 | 3 | | | 3 | | | |

| Sample Condition Upon Receipt at Laboratory: | Cooler Temperature: |
|---|---|
| Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0 | |
| Note 1: Total SVOCs: method SW8270D | |
| Note 2: Total Pesticides: SW8081B | |
| Note 3: Total VOCs: SW8260B | |
| Note 4: Total Metals: SW6010C | |

| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 5/9/13 | #3 Released by: (Sig) | Date: |
|---|---|---|---|---|---|
| Company Name: | Time: | Company Name: FPM | Time: 1630 | Company Name: | Time: |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) R. English | Date: 05-07-13 | #3 Received by: (Sig) | Date: |
| Company Name: FPM | Time: | Company Name: TASyR | Time: 16:30 | Company Name: | Time: |

**MATRIX**
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

**SMCODE**
B = Bailer
G = Grab.
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

# CHAIN OF CUSTODY RECORD

**COC#: _1_ SDG#: 2 (Open/Closed) Cooler ID#: _A_**

| | | |
|---|---|---|
| Ship to:<br>Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Project Name: Griffiss AFB SD050 Building 214<br>Sampler Name: Justin Damann | Send Results to:<br>Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | Sampler Signature: | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | Metals: note 4 4 oz glass jar | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| B214SCS0204AA | B214SCS-2 | 5/6 | 1406 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0208AA | B214SCS-2 | 5/6 | 1408 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0212AA | B214SCS-2 | 5/6 | 1411 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0304AA | B214SCS-3 | 5/6 | 1357 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0308AA | B214SCS-3 | 5/6 | 1359 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0312AA | B214SCS-3 | 5/6 | 1403 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0404AA | B214SCS-4 | 5/6 | 1345 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0408AA | B214SCS-4 | 5/6 | 1349 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0412AA | B214SCS-4 | 5/6 | 1353 | SO | G | N | 0/0 | 1 | 1 | |
| B214SCS0412AC | B214SCS-4 | 5/6 | 1355 | SO | G | FD | 0/0 | 1 | 1 | |

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: Total SVOCs: method SW8270D

Note 2: Total Pesticides: SW8081B

Note 3: Total VOCs: SW8260B

Note 4: Total Metals: SW6010C

| | | | | | |
|---|---|---|---|---|---|
| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 5/7/13 | #3 Released by: (Sig) | Date: |
| Company Name: | Time: | Company Name: FPM | Time: 1630 | Company Name: | Time: |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) | Date: 05-07-13 | #3 Received by: (Sig) | Date: |
| Company Name: FPM | Time: | Company Name: TA Syd | Time: 16:30 | Company Name: | Time: |

**MATRIX**
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

**SMCODE**
B = Bailer
G = Grab.
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

# CHAIN OF CUSTODY RECORD

**COC#: _3_ SDG#: _1_ (Open/Closed) Cooler ID#: _A_**

| | | |
|---|---|---|
| Ship to:<br>Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Project Name: Griffiss AFB DP012 Building 301<br>Sampler Name: Justin Damann<br>Sampler Signature: | Send Results to:<br>Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | Pesticides: note 2, 4 oz glass jar | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| B301SCS0104AA | B301SCS-1 | 5/6 | 0948 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0108AA | B301SCS-1 | 5/6 | 0955 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0112AA | B301SCS-1 | 5/6 | 1002 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0204AA | B301SCS-2 | 5/6 | 1025 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0208AA | B301SCS-2 | 5/6 | 1027 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0212AA | B301SCS-2 | 5/6 | 1031 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0304AA | B301SCS-3 | 5/6 | 1012 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0308AA | B301SCS-3 | 5/6 | 1016 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0312AA | B301SCS-3 | 5/6 | 1029 | SO | G | N | 0/0 | 1 | 1 | |
| B301SCS0112AC | B301SCS-1 | 5/6 | 1008 | SO | G | FD | 0/0 | 1 | 1 | |
| B301SCS0308AS | B301SCS-1 | 5/6 | 1016 | SO | G | MS | 0/0 | 1 | 1 | |
| B301SCS0308AD | B301SCS-1 | 5/6 | 1016 | SO | G | SD | 0/0 | 1 | 1 | |

Sample Condition Upon Receipt at Laboratory:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0 Cooler Temperature:

Note 1: Total SVOCs: method SW8270D

| |
|---|
| Note 2: Total Pesticides: SW8081B |
| Note 3: Total VOCs: SW8260B |
| Note 4: Total Metals: SW6010C |

| | | | | | |
|---|---|---|---|---|---|
| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 5/7/13 | #3 Released by: (Sig) | Date: |
| Company Name: | Time: | Company Name: FPM | Time: 1638 | Company Name: | Time: |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) | Date: 05-07-13 | #3 Received by: (Sig) | Date: |
| Company Name: FPM | Time: | Company Name: TA Sys | Time: 16:30 | Company Name: | Time: |

**MATRIX**
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

**SMCODE**
B = Bailer
G = Grab.
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

# CHAIN OF CUSTODY RECORD

COC#: _2_ SDG#: 1 2 (Open/Closed) Cooler ID#: _A_

| Ship to: | Project Name: Griffiss AFB DP015 Building 219 | Send Results to: |
|---|---|---|
| Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Sampler Name: Justin Damann | Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | Sampler Signature: | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | Metals: note 4 4 oz glass jar | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| B219SCS0104AA | B219SCS-1 | 5/6 | 1153 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0108AA | B219SCS-1 | 5/6 | 1156 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0112AA | B219SCS-1 | 5/6 | 1200 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0204AA | B219SCS-2 | 5/6 | 1208 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0208AA | B219SCS-2 | 5/6 | 1211 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0212AA | B219SCS-2 | 5/6 | 1215 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0304AA | B219SCS-3 | 5/6 | 1217 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0308AA | B219SCS-3 | 5/6 | 1221 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0312AA | B219SCS-3 | 5/6 | 1225 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0404AA | B219SCS-4 | 5/6 | 1140 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0408AA | B219SCS-4 | 5/6 | 1143 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0412AA | B219SCS-4 | 5/6 | 1145 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0504AA | B219SCS-5 | 5/6 | 1129 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0508AA | B219SCS-5 | 5/6 | 1133 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0512AA | B219SCS-5 | 5/6 | 1137 | SO | G | N | 0/0 | 1 | 1 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| B219SCS0604AA | B219SCS-6 | 5/6 | 1119 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0608AA | B219SCS-6 | 5/6 | 1124 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0612AA | B219SCS-6 | 5/6 | 1127 | SO | G | N | 0/0 | 1 | 1 | |
| B219SCS0412AC | B219SCS-4 | 5/6 | 1146 | SO | G | FD | 0/0 | 1 | 1 | |
| B219SCS0304AS | B219SCS-3 | 5/6 | 1217 | SO | G | MS | 0/0 | 1 | 1 | |
| B219SCS0304AD | B219SCS-3 | 5/6 | 1217 | SO | G | SD | 0/0 | 1 | 1 | |

| |
|---|
| Sample Condition Upon Receipt at Laboratory: Cooler Temperature: |
| Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0 |
| Note 1: Total SVOCs: method SW8270D |
| Note 2: Total Pesticides: SW8081B |
| Note 3: Total VOCs: SW8260B |
| Note 4: Total Metals: SW6010C |

| | | | | | |
|---|---|---|---|---|---|
| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 1630 | #3 Released by: (Sig) | Date: |
| Company Name: | Time: | Company Name: FPM | Time: 5-7-13 | Company Name: | Time: |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) R English | Date: 05-07-13 | #3 Received by: (Sig) | Date: |
| Company Name: FPM | Time: | Company Name: TA Sya | Time: 16:30 | Company Name: | Time: |

**MATRIX**
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

**SMCODE**
B = Bailer
G = Grab.
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
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SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

**Daily Health and Safety Meeting Form**

*Date:* 5/6/13 *Time :* 830

*Location:* FPM office (sample room)

*Weather Conditions:* sunny / 70°s

*Meeting Type:* Daily Health and Safety

*Personnel Present:*

Dan Baldyga, Justin Damann, Mike Grifasi, Josh Wenzel

*Visitors Present:* None

*Visitor Training:* None

*PPE Required:* Modified D

*Possible risks, injuries, concerns:*

underground utilities (unmarked), slip/trip/fall, car traffic.

*Anticipated Releases to Environment (if so, describe and detail response action/control measures implemented):*

None

*Property Damage:*

None

*Description (include sequence of events describing step by step how incident happened):*

None

*Analysis for, and Implementation of Corrective/Preventative Procedure to Prevent Future Occurrences (to be formulated by SSHO + FOM, approved by PM, and SSHO implemented):*

None

*Report made by (Name):* Dan Baldyga

*SSHP Organization Title:* Site Safety and Health Officer

**Daily Chemical Quality Control Report**

Project/Delivery Order Number: 1015-11-01 Date: 7/29/2013

Project Name/Site Number: Site Closure Sampling at Building 255/ FDA

Weather conditions: Temperature: 73 F Barometric reading: 30.06
Wind speed and direction: 0-8 mph, W
Significant wind changes: 18 mph

General description of tasks completed: Soil Sampling with geoprobe.

Explain any departures from the SAP or deviations from approved procedures during the day's field activities: None

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: None

Corrective actions taken or instructions obtained from AFCEE/USACE personnel: No corrective actions necessary.
None

Sampling shipment completed: √ Yes □ No Airbill #: …. …. ….

DCQCR Prepared by: Daniel Baldyga Date: 7/19/13

CQCC Signature: Date: 7/19/13

ATTACHMENTS:

| Checklist | Daily Chemical Quality Control Report Attachments |
|---|---|
| | ✓ Field sampling forms |
| | ✓ Equipment Calibration Log |
| | ✓ Copies of COCs |
| | ✓ SDG Table (See accompanying COCs). |
| | ✓ Daily Health and Safety Meeting Form |

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB/JW

Site and Site Code (**SITEID**): B255

Sampling Location ID. (**LOCID**): B255SCS-7

Date (**LOGDATE**): 7/29/13 Time: 1545

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | fine sand with gravel, no odor |
| 4-8 | brown - sand with silt, gravel |
| 8-12 | sand with silt, gravel. |

**Comments/Observations:**

Sample Time: 1550 Sample ID: B255SCS0704AA/AC

Sample Time: 1554 Sample ID: B255SCS0708AA

Sample Time: 1600 Sample ID: B255SCS0712AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: NB / JW

Site and Site Code (**SITEID**): B255

Sampling Location ID. (**LOCID**): B255SCS-8

Date (**LOGDATE**): 7/29/13 Time: 1530

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | fine sand, powder, light brown |
| 4-8 | fine sand, no odor, light brown |
| 8-12 | fine sand, brown to gray, gravel |

**Comments/Observations:**

Sample Time: 1530 Sample ID: B255SCS0804AA

Sample Time: 1535 Sample ID: B255SCS0808AA

Sample Time: 1540 Sample ID: B255SCS0812AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB / JW

Site and Site Code (**SITEID**): B255

Sampling Location ID. (**LOCID**): B255SCS-10

Date (**LOGDATE**): 7/29/13 Time: 1510

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | fine sand - light brown, gravel No odor |
| 4-8 | fine sand with gravel, no odor |
| 8-12 | fine sand with gravel, no odor |

**Comments/Observations:**

Sample Time: 1510 Sample ID: B255SCS1004AA

Sample Time: 1515 Sample ID: B255SCS10D8AA

Sample Time: 1520 Sample ID: B255SCS1012AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB/JW

Site and Site Code (**SITEID**): B255

Sampling Location ID. (**LOCID**): B255SCS-09

Date (**LOGDATE**): 7/29/13 Time: 1445

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | 1 ft recovery brown silt with gravel No odor |
| 4-8 | silty sand with gravel, moist at 8ft bgs No odor. → DB light brown |
| 8-12 | Sand with silt, gravel at 9ft (fine sand at 12 ft bgs to course) |

**Comments/Observations:**

Samples collected in 2 4-oz jars.

Sample Time: 1450 Sample ID: B255SCS0904AA

Sample Time: 1500 Sample ID: B255SCS0908AA

Sample Time: 1505 Sample ID: B255SCS0912AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB / JW

Site and Site Code (**SITEID**): B255

Sampling Location ID. (**LOCID**): B255SCS-11

Date (**LOGDATE**): 7/29/13 Time: 1320

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | silty sand - moist, no odor<br>1.5 ft recovery |
| 4-8 | Silt - dark brown.<br>1 ft recovery, moist, no odor<br>cobbles - |
| 8-12 | No odor - silty with gravel<br>1.5 ft recovery |

**Comments/Observations:** wet, 1.0 ft recovery silty/gravel at bottom 12-16

1st attempt - only 2-inch recovery, moved 1 ft to east of proposed point

Sample Time: 1345 Sample ID: B255SCS1104AA

Sample Time: 1347 Sample ID: B255SCS1108AA

Sample Time: 1359 Sample ID: B255SCS1112AA

Sample Time: 1430 Sample ID: B255SCS1116AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB / JW

Site and Site Code (**SITEID**): FDA

Sampling Location ID. (**LOCID**): FDASCS-20

Date (**LOGDATE**): 7/29/13 Time: 1200

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | - silt to 2ft bgs - dark brown, sand with silt in remainder, gravel. No odor - |
| 4-8 | - only 2ft recovery - sand with silt - gravel at the bottom, no odor |
| 8-12 | - 2ft recovery sand with silt, no odor very little gravel. |

**Comments/Observations:**

Sample Time: 1215 Sample ID: FDASCS2004AA

Sample Time: 1220 Sample ID: FDASCS2008AA

Sample Time: 1225 Sample ID: FDASCS2012AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB/JW

Site and Site Code (**SITEID**): FOA

Sampling Location ID. (**LOCID**): FOASCS-21

Date (**LOGDATE**): 7/29/13 Time: 1135

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | sand & with gravel on top only 2ft of recovery No odor |
| 4-8 | Sand with gravel, no odor only 2ft of recovery |
| 8-12 | 8-inch of recovery - sand light brown No-odor |

**Comments/Observations:**

Sample Time: 1130 Sample ID: FOASCS2104AA

Sample Time: 1132 Sample ID: FOASCS2108AA/AC

Sample Time: 1135 Sample ID: FOASCS2112AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB/JW

Site and Site Code (**SITEID**): FOA

Sampling Location ID. (**LOCID**): FOASCS-19

Date (**LOGDATE**): 1015-11-01 Time: 1055

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | silty with sand, gravel at 1.5-ft no odor / grayish silt with some clay? |
| 4-8 | sand with silt, gravel (not as much as other locs) moist at 6 ft / clay in silt no odor |
| 8-12 | sand with silt (at top) wet at bottom, no odor / some gravel |

**Comments/Observations:**

Sample Time: 1100 Sample ID: FOASCS1904AA DB/AD/AS

Sample Time: 1105 Sample ID: FOASCS1908AA

Sample Time: 1107 Sample ID: FOASCS1912AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB / TW

Site and Site Code (**SITEID**): FDA

Sampling Location ID. (**LOCID**): FDA SCS-18

Date (**LOGDATE**): 7/28/13 Time: _____

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | brown silt / gravel no odor |
| 4-8 | brown silt / gravel - no odor (sand with) |
| 8-12 | brown silty sand / gravel - no odor (sand at bottom) |

**Comments/Observations:**

DB

Sample Time: ~~FP~~ 0950 Sample ID: ~~FDA~~ DB ~~0950~~ FDASC9804AA

Sample Time: 0955 Sample ID: ~~0955~~ FDASCS1808AA

Sample Time: 1000 Sample ID: ~~1000~~ FDASCS1812AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB / JW

Site and Site Code (**SITEID**): FDA

Sampling Location ID. (**LOCID**): FDASCS-15

Date (**LOGDATE**): 7-29-13 Time: 1000

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | No odor - mottled, sand (light) silt gravel |
| 4-8 | 1 ft recovery - gravel silty sand light brown / no odor |
| 8-12 | gravel / 1 ft recovery - wet at bottom sand with silty (less silt than 4-8) |

**Comments/Observations:**

Sample Time: 1010 Sample ID: FDASCS1504AA

Sample Time: 1012 Sample ID: FDASCS1508AA

Sample Time: 1015 Sample ID: FDASCS1512AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB / JW

Site and Site Code (**SITEID**): FPA

Sampling Location ID. (**LOCID**): FOASCS-16

Date (**LOGDATE**): 7-29-13 Time: 1020

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | ~~AA~~ DB gravel, light brown silty with sand / no odor |
| 4-8 | light brown to gray sand with silt (at bottom and wet) gravel |
| 8-12 | gravel / sand with silt / light brown no odor |

**Comments/Observations:**

Sample Time: 1020 Sample ID: FOASCS1604AA

Sample Time: 1022 Sample ID: FOASCS1608AA

Sample Time: 1025 Sample ID: FOASCS1612AA

# SOIL / SEDIMENT SAMPLING FORM

Project: 1015-11-01 Sampled by: DB/JW

Site and Site Code (**SITEID**): FDA

Sampling Location ID. (**LOCID**): FDASCS - 17

Date (**LOGDATE**): ~~DB~~ 7/29/13 Time: 1030

**FIELD OBSERVATIONS:**

| Sample Depth or Interval | Material Description/ Color |
|---|---|
| 0-4 | full core recovery, gravel - brown silt with sand - (gray gravel at 3 ft bgs for 3-inch) |
| 4-8 | full recovery - brown (dark) ~~set~~ sandy silt silt at top (6-inch) rest sand |
| 8-12 | ~~silt~~ Sand with gravel, ~~s~~ silty at top |

**Comments/Observations:**

Sample Time: 1035 Sample ID: FDASCS1704AA/AC

Sample Time: 1038 Sample ID: FDASCS1708AA

Sample Time: 1041 Sample ID: FDASCS1712AA

280-45026 Chain of Custody

# CHAIN OF CUSTODY RECORD

**COC#: _1_ SDG#: _ 294 Cooler ID#: _A_**

| | | |
|---|---|---|
| Ship to:<br>Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Project Name: Griffiss AFB DP013 Building 255<br>Sampler Name: Joshua Wenzel | Send Results to:<br>Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | Sampler Signature: | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | Metals: note 4 4 oz glass jar | SVOCs note 1, 8oz glass jar | Metals note 4 250 mL poly ($HNO_3$). | SVOCs note 1 1 L amber bottle | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B255SCS0704AA | B255SCS-7 | 7/29 | 1550 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0704AC | B255SCS-7 | 7/29 | 1550 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0708AA | B255SCS-7 | 7/29 | 1554 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0712AA | B255SCS-7 | 7/29 | 1600 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0804AA | B255SCS-8 | 7/29 | 1530 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0808AA | B255SCS-8 | 7/29 | 1535 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0812AA | B255SCS-8 | 7/29 | 1540 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0904AA | B255SCS-9 | 7/29 | 1450 | SO | G | N | 0/0 | 2 | 1 | 1 | | | |
| B255SCS0908AA | B255SCS-9 | 7/29 | 1500 | SO | G | N | 0/0 | 2 | 1 | 1 | | | |
| B255SCS0912AA | B255SCS-9 | 7/29 | 1505 | SO | G | N | 0/0 | 2 | 1 | 1 | | | |
| B255SCS1004AA | B255SCS-10 | 7/29 | 1510 | SO | G | N | 0/0 | 1 | | 1 | | | |
| B255SCS1008AA | B255SCS-10 | 7/29 | 1515 | SO | G | N | 0/0 | 1 | | 1 | | | |
| B255SCS1012AA | B255SCS-10 | 7/29 | 1520 | SO | G | N | 0/0 | 1 | | 1 | | | |
| B255SCS1104AA | B255SCS-11 | 7/29 | 1345 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS1108AA | B255SCS-11 | 7/29 | 1347 | SO | G | N | 0/0 | 1 | 1 | | | | |

8-1-13 930

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B255SCS1112AA | B255SCS-11 | 7/29 | 1359 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS1116AA | B255SCS-11 | 7/29 | 1430 | SO | G | N | 0/0 | 1 | 1 | | | | |

| |
|---|
| Sample Condition Upon Receipt at Laboratory: Cooler Temperature: |
| Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0 |
| Note 1: Total SVOCs: method SW8270D |
| Note 2: Total Pesticides: SW8081B |
| Note 3: Total VOCs: SW8260B |
| Note 4: Total Metals: SW6010C |

| | | | | | |
|---|---|---|---|---|---|
| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 7/30/13 | #3 Released by: (Sig) | Date: |
| Company Name: | Time: | Company Name: FPM | Time: 1330 | Company Name: | Time: |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) | Date: 8-1-13 | #3 Received by: (Sig) | Date: |
| Company Name: FPM | Time: | Company Name: TTD | Time: 930 | Company Name: | Time: |

**MATRIX**
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

**SMCODE**
B = Bailer
G = Grab.
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

280-45020 Chain of Custody

# CHAIN OF CUSTODY RECORD

2,13.2
5.2 on pH 8/1/13

**COC#: _1_ SDG#: _293/294 Cooler ID#: _A_**

| | | |
|---|---|---|
| Ship to:<br>Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Project Name: Griffiss AFB SS024 FDA<br>Sampler Name: Joshua Wenzel | Send Results to:<br>Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | Sampler Signature: | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | SVOCs note 1, Metals: note 4, Pesticides: note 2 8 oz glass jar | Metals note 4 250 mL poly ($HNO_3$). | SVOCs note 1 1 L amber bottle | Pesticides note 2 1 L amber bottle | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FDASCS1504AA | FDASCS-15 | 7/29 | 1010 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1508AA | FDASCS-15 | 7/29 | 1012 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1512AA | FDASCS-15 | 7/29 | 1015 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1604AA | FDASCS-16 | 7/29 | 1020 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1608AA | FDASCS-16 | 7/29 | 1022 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1612AA | FDASCS-16 | 7/29 | 1025 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1704AA | FDASCS-17 | 7/29 | 1035 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1704AC | FDASCS-17 | 7/29 | 1035 | SO | G | FD | 0/0 | 1 | 1 | | | | |
| FDASCS1708AA | FDASCS-17 | 7/29 | 1038 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1712AA | FDASCS-17 | 7/29 | 1040 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1804AA | FDASCS-18 | 7/29 | 0950 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1808AA | FDASCS-18 | 7/29 | 0955 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1812AA | FDASCS-18 | 7/29 | 1000 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1904AA | FDASCS-19 | 7/29 | 1100 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1904AS | FDASCS-19 | 7/29 | 1100 | SO | G | MS | 0/0 | 1 | 1 | | | | |



08/26/2013

8-13 930

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FDASCS1904AD | FDASCS-19 | 7/29 | 1100 | SO | G | SD | 0/0 | 1 | 1 | | | | |
| FDASCS1908AA | FDASCS-19 | 7/29 | 1105 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS1912AA | FDASCS-19 | 7/29 | 1107 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS2004AA | FDASCS-20 | 7/29 | 1215 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS2008AA | FDASCS-20 | 7/29 | 1220 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS2012AA | FDASCS-20 | 7/29 | 1225 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS2104AA | FDASCS-21 | 7/29 | 1130 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS2104AC | FDASCS-21 | 7/29 | 1130 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS2108AA | FDASCS-21 | 7/29 | 1132 | SO | G | N | 0/0 | 1 | 1 | | | | |
| FDASCS2112AA | FDASCS-21 | 7/29 | 1135 | SO | G | N | 0/0 | 1 | 1 | | | | |
| 072913AE | FIELDQC | 7/29 | 1645 | WQ | G | EB | 0/0 | 5 | | 1 | 2 | 2 | |



| |
|---|
| Sample Condition Upon Receipt at Laboratory: Cooler Temperature: |
| Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0 |
| Note 1: Total SVOCs: method SW8270D |
| Note 2: Total Pesticides: SW8081B |
| Note 4: Total Metals: SW6010C |

| | | | | | |
|---|---|---|---|---|---|
| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 7/30/13 | #3 Released by: (Sig) | Date: |
| Company Name: | Time: | Company Name: FPM | Time: 1330 | Company Name: | Time: |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) | Date: 8-1-13 | #3 Received by: (Sig) | Date: |
| Company Name: FPM | Time: | Company Name: TAD | Time: 930 | Company Name: | Time: |

**MATRIX**
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**SMCODE**
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SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

**Daily Health and Safety Meeting Form**

*Date:* 7/29/13 *Time :* 0930

*Location:* FPM office (sample room)

*Weather Conditions:* Sun 72°F

*Meeting Type:* Daily Health and Safety

*Personnel Present:*

Dan Baldyga, Josh Wenzel

*Visitors Present:* NONE

*Visitor Training:* NONE

*PPE Required:* Modified D

*Possible risks, injuries, concerns:*

Biological, slip/trip/fall, sunburn/dehydration

*Anticipated Releases to Environment (if so, describe and detail response action/control measures implemented):*

NONE

*Property Damage:*

NONE

*Description (include sequence of events describing step by step how incident happened):*

NONE

*Analysis for, and Implementation of Corrective/Preventative Procedure to Prevent Future Occurrences (to be formulated by SSHO + FOM, approved by PM, and SSHO implemented):*

NONE

*Report made by (Name):* Josh Wenzel

*SSHP Organization Title:* Site Safety and Health Officer

# Appendix D
# Validated Laboratory Results

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# *FPM Remediations*
# *Data Verification and Usability Report*
# *Former Griffiss AFB*
# *Building DP013 255*
# *Contract No. FA8903-10-D-8595, Delivery Order No. 0014*

## *FPM Project No. 1015-11-01*

**TestAmerica Job # 280-42039-1**

| | |
|---|---|
| Laboratory: | TestAmerica Laboratories, Inc. |
| Sample Matrix: | Soil |
| Number of Samples: | 13 |
| Analytical Protocol: | DOD QSM version 4.2, as per project-specific UFP QAPP |
| Data Reviewer: | Connie van Hoesel |
| Sample Date: | May 6, 2013 |

---

## LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

| Sample ID | Date | QC Samples | Date |
|---|---|---|---|
| B255SCS0104AA | 5/6/13 | B255SCS0104AC | |
| B255SCS0108AA | 5/6/13 | 050613AE, 050613AF, 050613AR | |
| B255SCS0112AA | 5/6/13 | | |
| B255SCS0204AA | 5/6/13 | | |
| B255SCS0208AA | 5/6/13 | | |
| B255SCS0212AA | 5/6/13 | | |
| B255SCS0304AA | 5/6/13 | | |
| B255SCS0308AA | 5/6/13 | | |
| B255SCS0312AA | 5/6/13 | | |

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AA – Primary environmental samples
AC – Field duplicate sample
AE – Equipment blank sample
AF – Ambient blank sample
AR – Trip blank sample

## DELIVERABLES

The data deliverable report was per requirements of the DOD QSM, version 4.2, as specified in the project-specific QAPP. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

## ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the sample analyses were per methods as specified in the DOD QSM, version 4.2, with project-specific modifications as listed in the project-specific QAPP. The analytical methods employed included SW-846 8260B, Volatile Organic Compounds (VOCs), and 6010C, Metals.

## VERIFICATION GUIDANCE

The analytical work was performed by TestAmerica Denver in accordance with the DOD QSM, version 4.2, and QC requirements of the respective analytical methods and of the project-specific QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the DOD QSM, and the criteria as listed in the project-specific QAPP.

## QA/QC CRITERIA

The following QA/QC criteria were reviewed for the metals analyses, as applicable:

- Method detection limits and limits of quantitation (DL, LOQ)
- Holding times
- Initial and Continuing calibration summaries
- Method blanks
- Field duplicate results
- Serial dilution results
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Laboratory control samples (LCS)
- Results reported between DL and LOQ (J-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with DOD QSM, version 4.2, and project-specific QAPP criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

***GENERAL NOTES:***

SAMPLE LABELING/CHAIN-OF-CUSTODY

No errors in the chain-of-custody were noted. There were no discrepancies noted between the sample labels and the chain-of-custody, or the cooler contents and the chain-of-custody.

**VOCs**

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The UFP QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above 5x the reporting limits (RL's) and the relative percent differences (RPD's) between the duplicate sample results exceed RPD control limits (20% for water samples, 30% for soil samples). If either the parent or the duplicate sample is less than 5x the RL, then the difference between the parent and duplicate sample must be less than 2x the RL. "J" flags for detects and "UJ" flags for non-detects are required per the QAPP for any exceedances. For these purposes the RL is considered equal to the LOQ.

  The following table summarizes the relative percent differences (RPD's) of field duplicate sample set B255SCS0104AA/AC.

| Sample ID, Normal | Sample ID, Field Duplicate | Analyte | Normal Result (mg/kg) | Field Dup Result (mg/kg) | LOQ (mg/kg) | RPD | Flag Applied | Rationale |
|---|---|---|---|---|---|---|---|---|
| B255SCS0104AA | B255SCS0104AC | Methylene Chloride | 4.4 J | 3.6 J | 5.3, 5.4 | 0.8 | None | Total difference < 2xRL |

  **Corrective Action:** "J" qualifiers were applied to the results, since the RPD's and/or total differences among the sample duplicate set B255SCS0104AA/AC were within QAPP limits.

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

| Type of Calibration Exceedance Affected Analytes | %D/ %RSD | AFCEE QC Limit | Flag Applied | Rationale |
|---|---|---|---|---|
| *CCV 280-174695/3* | | | | |
| Carbon disulfide | ***22.3*** | ±20 | None | %D greater than upper control limit, all results non-detect |

  **Corrective Action**: In accordance with the case narrative, no corrective action was required for the compounds listed in the above table when the %D was above the upper control limit and all associated sample results were non-detect.

**METALS**

- According to the case narrative, the solution used as the interference check standard showed the result for copper at a level greater than the LOD for the analytical batch associated with the field samples. The solution is believed to contain trace impurities of these elements, consistent with those found by the manufacturer of the solution. Using professional judgment, the "Q" qualifiers assigned by the laboratory were removed since the sample results are not due to matrix interference; (the levels in the soil samples were also well above those levels observed in the ICS solution).

| **Metal** | **Level in the ISCA solution 174408/14 (µg/L)** | **LOD (µg/L)** |
|---|---|---|
| Chromium | 1.94 | 1.5 |
| Copper | 4.05 | 3.5 |
| Manganese | 3.94 | 0.5 |
| Vanadium | 2.91 | 2.5 |
| **Metal** | **Level in the ISCA solution 175050/16 (µg/L)** | **LOD (µg/L)** |
| Chromium | 2.15 | 1.5 |
| Copper | 4.47 | 3.5 |
| Vanadium | 4.72 | 2.5 |
| **Metal** | **Level in the ISCA solution 175407/14 (µg/L)** | **LOD (µg/L)** |
| Manganese | 3.82 | 0.5 |

- According to the case narrative, the following sample was analyzed at an initial dilution:

| **Sample** | **Analyte** | **Dilution** |
|---|---|---|
| B255SCS0312AA | Sodium | 1:5 |

The dilution results only are reported and are used in data verification as representing original results.

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The UFP QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above 5x the reporting limits (RL's) and the relative percent differences (RPD's) between the duplicate sample results exceed RPD control limits (20% for water samples, 30% for soil samples). If either the parent or the duplicate sample is less than 5x the RL, then the difference between the parent and duplicate sample must be less than 2x the RL. "J" flags for detects and "UJ" flags for non-detects are required per the QAPP for any exceedances. For these purposes the RL is considered equal to the LOQ.

The following table summarizes the relative percent differences (RPD's) of field duplicate sample set B255SCS0104AA/AC.

| Sample ID, Normal | Sample ID, Field Duplicate | Analyte | Normal Result (mg/kg) | Field Dup Result (mg/kg) | LOQ (mg/kg) | RPD | Flag Applied | Rationale |
|---|---|---|---|---|---|---|---|---|
| B255SCS0104AA | B255SCS0104AC | Aluminum | 9000 | 9800 | 47, 52 | 8.5 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Arsenic | 4.8 | 3.5 | 2.4, 2.6 | 1.3 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Barium | 46 | 33 | 1.9, 2.1 | ***33*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Beryllium | 0.41 J | 0.39 J | 0.47, 0.52 | 0.020 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Boron | 1.6 J | 1.7 J | 9.5, 10 | 0.10 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Cadmium | 0.18 J | 0.17 J | 0.47, 0.52 | 0.010 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Calcium | 7300 | 2000 | 95, 100 | ***114*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Chromium | 10 | 11 | 3.3, 3.6 | 1 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Cobalt | 7.6 | 5.6 | 0.95, 1.0 | ***30*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Copper | 33 | 21 | 4.7, 5.2 | 12 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Iron | 21000 | 17000 | 76, 83 | 21 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Lead | 6.8 | 9.4 | 0.85, 0.93 | ***32*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Magnesium | 3700 | 3400 | 28, 31 | 8.5 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Manganese | 1300 | 540 | 4.3, 4.7 | ***83*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Molybdenum | 0.29 J | 0.52 J | 2.4, 2.6 | 0.23 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Nickel | 18 | 14 | 3.8, 4.1 | 4 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Potassium | 990 | 910 | 280, 310 | 80 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Vanadium | 16 | 17 | 1.9, 2.1 | 1.0 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Zinc | 43 | 48 | 7.6, 8.3 | 11 | None | RPD < 30% |

**Corrective Action:** "J" qualifiers were applied to the results, since the RPD's and/or total differences among the sample duplicate set B255SCS0104AA/AC were within QAPP limits.

## DATA USABILITY RESULTS

### VOCs

Based on the evaluation of all information in the analytical data groups, the results for VOCs are usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

### METALS

Based on the evaluation of all information in the analytical data groups, the results for metals are usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

**DATA USABILITY SUMMARY**

All data in Job # 280-42039-1 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel Date: 7/6/13

***ATTACHMENTS***

- Qualified final data verification results on annotated Lab Sheet 2s

# *FPM Remediations*
# *Data Verification and Usability Report*
# *Former Griffiss AFB*
# *Building DP013 255*
# *Contract No. FA8903-10-D-8595, Delivery Order No. 0014*

## *FPM Project No. 1015-11-01*

**TestAmerica Job # 280-42039-1**

| | |
|---|---|
| Laboratory: | TestAmerica Laboratories, Inc. |
| Sample Matrix: | Soil |
| Number of Samples: | 13 |
| Analytical Protocol: | DOD QSM version 4.2, as per project-specific UFP QAPP |
| Data Reviewer: | Connie van Hoesel |
| Sample Date: | May 6, 2013 |

---

## LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

| Sample ID | Date | QC Samples | Date |
|---|---|---|---|
| B255SCS0104AA | 5/6/13 | B255SCS0104AC | |
| B255SCS0108AA | 5/6/13 | 050613AE, 050613AF, 050613AR | |
| B255SCS0112AA | 5/6/13 | | |
| B255SCS0204AA | 5/6/13 | | |
| B255SCS0208AA | 5/6/13 | | |
| B255SCS0212AA | 5/6/13 | | |
| B255SCS0304AA | 5/6/13 | | |
| B255SCS0308AA | 5/6/13 | | |
| B255SCS0312AA | 5/6/13 | | |

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AA – Primary environmental samples
AC – Field duplicate sample
AE – Equipment blank sample
AF – Ambient blank sample
AR – Trip blank sample

## DELIVERABLES

The data deliverable report was per requirements of the DOD QSM, version 4.2, as specified in the project-specific QAPP. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

## ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the sample analyses were per methods as specified in the DOD QSM, version 4.2, with project-specific modifications as listed in the project-specific QAPP. The analytical methods employed included SW-846 8260B, Volatile Organic Compounds (VOCs), and 6010C, Metals.

## VERIFICATION GUIDANCE

The analytical work was performed by TestAmerica Denver in accordance with the DOD QSM, version 4.2, and QC requirements of the respective analytical methods and of the project-specific QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the DOD QSM, and the criteria as listed in the project-specific QAPP.

## QA/QC CRITERIA

The following QA/QC criteria were reviewed for the metals analyses, as applicable:

- Method detection limits and limits of quantitation (DL, LOQ)
- Holding times
- Initial and Continuing calibration summaries
- Method blanks
- Field duplicate results
- Serial dilution results
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Laboratory control samples (LCS)
- Results reported between DL and LOQ (J-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with DOD QSM, version 4.2, and project-specific QAPP criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

***GENERAL NOTES:***

SAMPLE LABELING/CHAIN-OF-CUSTODY

No errors in the chain-of-custody were noted. There were no discrepancies noted between the sample labels and the chain-of-custody, or the cooler contents and the chain-of-custody.

**VOCs**

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The UFP QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above 5x the reporting limits (RL's) and the relative percent differences (RPD's) between the duplicate sample results exceed RPD control limits (20% for water samples, 30% for soil samples). If either the parent or the duplicate sample is less than 5x the RL, then the difference between the parent and duplicate sample must be less than 2x the RL. "J" flags for detects and "UJ" flags for non-detects are required per the QAPP for any exceedances. For these purposes the RL is considered equal to the LOQ.

  The following table summarizes the relative percent differences (RPD's) of field duplicate sample set B255SCS0104AA/AC.

| Sample ID, Normal | Sample ID, Field Duplicate | Analyte | Normal Result (mg/kg) | Field Dup Result (mg/kg) | LOQ (mg/kg) | RPD | Flag Applied | Rationale |
|---|---|---|---|---|---|---|---|---|
| B255SCS0104AA | B255SCS0104AC | Methylene Chloride | 4.4 J | 3.6 J | 5.3, 5.4 | 0.8 | None | Total difference < 2xRL |

  **Corrective Action:** "J" qualifiers were applied to the results, since the RPD's and/or total differences among the sample duplicate set B255SCS0104AA/AC were within QAPP limits.

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

| Type of Calibration Exceedance Affected Analytes | %D/ %RSD | AFCEE QC Limit | Flag Applied | Rationale |
|---|---|---|---|---|
| *CCV 280-174695/3* | | | | |
| Carbon disulfide | ***22.3*** | ±20 | None | %D greater than upper control limit, all results non-detect |

  **Corrective Action**: In accordance with the case narrative, no corrective action was required for the compounds listed in the above table when the %D was above the upper control limit and all associated sample results were non-detect.

**METALS**

- According to the case narrative, the solution used as the interference check standard showed the result for copper at a level greater than the LOD for the analytical batch associated with the field samples. The solution is believed to contain trace impurities of these elements, consistent with those found by the manufacturer of the solution. Using professional judgment, the "Q" qualifiers assigned by the laboratory were removed since the sample results are not due to matrix interference; (the levels in the soil samples were also well above those levels observed in the ICS solution).

| **Metal** | **Level in the ISCA solution 174408/14 (µg/L)** | **LOD (µg/L)** |
|---|---|---|
| Chromium | 1.94 | 1.5 |
| Copper | 4.05 | 3.5 |
| Manganese | 3.94 | 0.5 |
| Vanadium | 2.91 | 2.5 |
| **Metal** | **Level in the ISCA solution 175050/16 (µg/L)** | **LOD (µg/L)** |
| Chromium | 2.15 | 1.5 |
| Copper | 4.47 | 3.5 |
| Vanadium | 4.72 | 2.5 |
| **Metal** | **Level in the ISCA solution 175407/14 (µg/L)** | **LOD (µg/L)** |
| Manganese | 3.82 | 0.5 |

- According to the case narrative, the following sample was analyzed at an initial dilution:

| **Sample** | **Analyte** | **Dilution** |
|---|---|---|
| B255SCS0312AA | Sodium | 1:5 |

The dilution results only are reported and are used in data verification as representing original results.

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The UFP QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above 5x the reporting limits (RL's) and the relative percent differences (RPD's) between the duplicate sample results exceed RPD control limits (20% for water samples, 30% for soil samples). If either the parent or the duplicate sample is less than 5x the RL, then the difference between the parent and duplicate sample must be less than 2x the RL. "J" flags for detects and "UJ" flags for non-detects are required per the QAPP for any exceedances. For these purposes the RL is considered equal to the LOQ.

The following table summarizes the relative percent differences (RPD's) of field duplicate sample set B255SCS0104AA/AC.

| Sample ID, Normal | Sample ID, Field Duplicate | Analyte | Normal Result (mg/kg) | Field Dup Result (mg/kg) | LOQ (mg/kg) | RPD | Flag Applied | Rationale |
|---|---|---|---|---|---|---|---|---|
| B255SCS0104AA | B255SCS0104AC | Aluminum | 9000 | 9800 | 47, 52 | 8.5 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Arsenic | 4.8 | 3.5 | 2.4, 2.6 | 1.3 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Barium | 46 | 33 | 1.9, 2.1 | ***33*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Beryllium | 0.41 J | 0.39 J | 0.47, 0.52 | 0.020 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Boron | 1.6 J | 1.7 J | 9.5, 10 | 0.10 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Cadmium | 0.18 J | 0.17 J | 0.47, 0.52 | 0.010 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Calcium | 7300 | 2000 | 95, 100 | ***114*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Chromium | 10 | 11 | 3.3, 3.6 | 1 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Cobalt | 7.6 | 5.6 | 0.95, 1.0 | ***30*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Copper | 33 | 21 | 4.7, 5.2 | 12 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Iron | 21000 | 17000 | 76, 83 | 21 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Lead | 6.8 | 9.4 | 0.85, 0.93 | ***32*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Magnesium | 3700 | 3400 | 28, 31 | 8.5 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Manganese | 1300 | 540 | 4.3, 4.7 | ***83*** | J | RPD > 30% |
| B255SCS0104AA | B255SCS0104AC | Molybdenum | 0.29 J | 0.52 J | 2.4, 2.6 | 0.23 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Nickel | 18 | 14 | 3.8, 4.1 | 4 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Potassium | 990 | 910 | 280, 310 | 80 | None | Total difference < 2xRL |
| B255SCS0104AA | B255SCS0104AC | Vanadium | 16 | 17 | 1.9, 2.1 | 1.0 | None | RPD < 30% |
| B255SCS0104AA | B255SCS0104AC | Zinc | 43 | 48 | 7.6, 8.3 | 11 | None | RPD < 30% |

**Corrective Action:** "J" qualifiers were applied to the results, since the RPD's and/or total differences among the sample duplicate set B255SCS0104AA/AC were within QAPP limits.

## DATA USABILITY RESULTS

### VOCs

Based on the evaluation of all information in the analytical data groups, the results for VOCs are usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

### METALS

Based on the evaluation of all information in the analytical data groups, the results for metals are usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

**DATA USABILITY SUMMARY**

All data in Job # 280-42039-1 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel Date: 7/6/13

***ATTACHMENTS***

- Qualified final data verification results on annotated Lab Sheet 2s

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 280-42039-1

Job Description: Griffiss AFB DP013 Bldg 255

For:
FPM Remediations Inc
584 Phoenix Drive
Rome, NY 13441

Attention: Daniel Baldyga

M. Elaine Walker

Approved for release.
Elaine Walker
Project Manager I
5/30/2013 12:37 PM

Elaine Walker, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0156
elaine.walker@testamericainc.com
05/30/2013

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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# CASE NARRATIVE
# Client: FPM Remediations Inc
# Project: Griffiss AFB DP013 Bldg 255
# Report Number: 280-42039-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

Thirteen samples were received on 05/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.1°C and 0.4°C.

Per email from the client on 05/10/2013, the equipment blank received for pesticides analysis was not logged with this delivery group as there were no pesticide field samples received for this site. The pesticide equipment blank (050613AE) was logged with the samples received for DP012 Building 301, reported under a separate delivery group.

**VOLATILE ORGANIC COMPOUNDS (GC-MS) - SOIL**

Samples B255SCS0104AA (280-42039-1), B255SCS0108AA (280-42039-2), B255SCS0112AA (280-42039-3), B255SCS0204AA (280-42039-4), B255SCS0208AA (280-42039-5), B255SCS0212AA (280-42039-6), B255SCS0304AA (280-42039-7), B255SCS0308AA (280-42039-8), B255SCS0312AA (280-42039-9), and B255SCS0104AC (280-42039-10) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/17/2013.

Acetone, Carbon Disulfide, and Methylene Chloride were detected in method blank MB 280-174775/1-A at levels that were above the method detection limits but below the reporting limits. The values should be considered estimates, and have been flagged "J". However, because the result concentrations were less than ½ the respective reporting limits, no corrective action was necessary.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

**VOLATILE ORGANIC COMPOUNDS (GC-MS) - WATER**

Samples 050613AE (280-42039-11), 050613AF (280-42039-12), and 050613AR (280-42039-13) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/11/2013, 05/14/2013 and 05/15/2013.

Methylene Chloride was detected in method blank MB 280-173812/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

Naphthalene was detected in method blank MB 280-174063/35 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP) - SOIL**

Samples B255SCS0104AA (280-42039-1), B255SCS0108AA (280-42039-2), B255SCS0112AA (280-42039-3), B255SCS0204AA (280-42039-4), B255SCS0208AA (280-42039-5), B255SCS0212AA (280-42039-6), B255SCS0304AA (280-42039-7), B255SCS0308AA (280-42039-8), B255SCS0312AA (280-42039-9), and B255SCS0104AC (280-42039-10) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/10/2013 and analyzed on 05/15/2013, 05/16/2013 and 05/17/2013.

Aluminum, Barium, and Boron were detected in method blank MB 280-173661/1-A at levels that were above the method detection limits but below the reporting limits. The values should be considered estimates, and have been flagged "J". However, because the result concentrations were less than ½ the respective reporting limits, no corrective action was necessary.

Sample B255SCS0312AA (280-42039-9) required a dilution prior to analysis. The reporting limits have been adjusted accordingly.

The interference check standard solution (ICSA) associated with prep batch 280-173661 showed results for Chromium, Copper, Manganese, and Vanadium at a level greater than the limit of detection (LOD). It is believed that the solution contains trace impurities of these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for these elements.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP) - WATER**

Sample 050613AE (280-42039-11) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The sample was prepared on 05/17/2013 and 05/23/2013 and analyzed on 05/18/2013, 05/21/2013 and 05/23/2013.

Manganese was detected in method blank MB 280-174378/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

Iron was detected in method blank MB 280-175463/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

The interference check standard solution (ICSA) associated with prep batch 280-174378 showed results for one or more elements at a level greater than the limit of detection (LOD). The initial ICSA results were greater than the LOD for Chromium, Copper, Manganese, and Vanadium. It is believed that the solution contains trace impurities of these elements and that the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for these elements.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples B255SCS0104AA (280-42039-1), B255SCS0108AA (280-42039-2), B255SCS0112AA (280-42039-3), B255SCS0204AA (280-42039-4), B255SCS0208AA (280-42039-5), B255SCS0212AA (280-42039-6), B255SCS0304AA (280-42039-7), B255SCS0308AA (280-42039-8), B255SCS0312AA (280-42039-9), and B255SCS0104AC (280-42039-10) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 05/24/2013.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Analysis Batch Number: 173382

Lab Sample ID: STD02 280-173382/40 IC Client Sample ID:

Date Analyzed: 05/08/13 23:02 Lab File ID: Z4066.D GC Column: DB-624 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Ethyl methacrylate | 8.70 | Split Peak | tinkhams | 05/08/13 23:29 |

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Analysis Batch Number: 173382

Lab Sample ID: ICV 280-173382/38 Client Sample ID:

Date Analyzed: 05/08/13 22:17 Lab File ID: Z4064.D GC Column: DB-624 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.14 | Split Peak | tinkhams | 05/10/13 01:57 |

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Analysis Patch Number: 173382

Lab Sample ID: STD02 280-173382/40 IC Client Sample ID:

Date Analyzed: 05/08/13 23:02 Lab File ID: Z4066.D GC Column: DB-624 ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Ethyl methacrylate | 8.70 | Split Peak | tinkhams | 05/08/13 23:29 |

5/28/13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_7  Analysis Batch Number: 173382

Lab Sample ID: ICV 280-173382/38  Client Sample ID:

Date Analyzed: 05/08/13 22:17  Lab File ID: Z1064.D  GC Column: DB-624  ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.14 | Split Peak | tinkhems | 05/10/13 01:57 |

JH 5/28/13

## SAMPLE SUMMARY

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 280-42039-1 | B255SCS0104AA | Solid | 05/06/2013 1440 | 05/08/2013 0915 |
| 280-42039-2 | B255SCS0108AA | Solid | 05/06/2013 1455 | 05/08/2013 0915 |
| 280-42039-3 | B255SCS0112AA | Solid | 05/06/2013 1500 | 05/08/2013 0915 |
| 280-42039-4 | B255SCS0204AA | Solid | 05/06/2013 1515 | 05/08/2013 0915 |
| 280-42039-5 | B255SCS0208AA | Solid | 05/06/2013 1519 | 05/08/2013 0915 |
| 280-42039-6 | B255SCS0212AA | Solid | 05/06/2013 1525 | 05/08/2013 0915 |
| 280-42039-7 | B255SCS0304AA | Solid | 05/06/2013 1545 | 05/08/2013 0915 |
| 280-42039-8 | B255SCS0308AA | Solid | 05/06/2013 1552 | 05/08/2013 0915 |
| 280-42039-9 | B255SCS0312AA | Solid | 05/06/2013 1559 | 05/08/2013 0915 |
| 280-42039-10FD | B255SCS0104AC | Solid | 05/06/2013 1442 | 05/08/2013 0915 |
| 280-42039-11EB | 050613AE | Water | 05/06/2013 1630 | 05/08/2013 0915 |
| 280-42039-12FB | 050613AF | Water | 05/06/2013 1530 | 05/08/2013 0915 |
| 280-42039-13TB | 050613AR | Water | 05/06/2013 0900 | 05/08/2013 0915 |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-1** | **B255SCS0104AA** | | | | | |
| Methylene Chloride | | 4.4 | J | 5.3 | ug/Kg | 8260B/DoD |
| Aluminum | | 9000 | | 47 | mg/Kg | 6010C |
| Arsenic | | 4.8 | | 2.4 | mg/Kg | 6010C |
| Barium | | 46 | | 1.9 | mg/Kg | 6010C |
| Beryllium | | 0.41 | J | 0.47 | mg/Kg | 6010C |
| Boron | | 1.6 | J | 9.5 | mg/Kg | 6010C |
| Cadmium | | 0.18 | J | 0.47 | mg/Kg | 6010C |
| Calcium | | 7300 | | 95 | mg/Kg | 6010C |
| Chromium | | 10 | Q | 3.3 | mg/Kg | 6010C |
| Cobalt | | 7.6 | | 0.95 | mg/Kg | 6010C |
| Copper | | 33 | Q | 4.7 | mg/Kg | 6010C |
| Iron | | 21000 | | 76 | mg/Kg | 6010C |
| Lead | | 6.8 | | 0.85 | mg/Kg | 6010C |
| Magnesium | | 3700 | | 28 | mg/Kg | 6010C |
| Manganese | | 1300 | Q | 4.3 | mg/Kg | 6010C |
| Molybdenum | | 0.29 | J | 2.4 | mg/Kg | 6010C |
| Nickel | | 18 | | 3.8 | mg/Kg | 6010C |
| Potassium | | 990 | | 280 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 1.9 | mg/Kg | 6010C |
| Zinc | | 43 | | 7.6 | mg/Kg | 6010C |
| Percent Moisture | | 8.8 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-2** | **B255SCS0108AA** | | | | | |
| Methylene Chloride | | 3.8 | J | 5.5 | ug/Kg | 8260B/DoD |
| Aluminum | | 11000 | | 52 | mg/Kg | 6010C |
| Arsenic | | 4.0 | | 2.6 | mg/Kg | 6010C |
| Barium | | 86 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.41 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.2 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.23 | J | 0.52 | mg/Kg | 6010C |
| Calcium | | 3700 | | 100 | mg/Kg | 6010C |
| Chromium | | 13 | Q | 3.7 | mg/Kg | 6010C |
| Cobalt | | 6.2 | | 1.0 | mg/Kg | 6010C |
| Copper | | 15 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 21000 | | 84 | mg/Kg | 6010C |
| Lead | | 9.4 | | 0.94 | mg/Kg | 6010C |
| Magnesium | | 2200 | | 31 | mg/Kg | 6010C |
| Manganese | | 1500 | Q | 4.7 | mg/Kg | 6010C |
| Molybdenum | | 1.0 | J | 2.6 | mg/Kg | 6010C |
| Nickel | | 11 | | 4.2 | mg/Kg | 6010C |
| Potassium | | 850 | | 310 | mg/Kg | 6010C |
| Silver | | 0.19 | J | 1.6 | mg/Kg | 6010C |
| Sodium | | 170 | J | 520 | mg/Kg | 6010C |
| Vanadium | | 24 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 52 | | 8.4 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-3** | **B255SCS0112AA** | | | | | |
| Methylene Chloride | | 3.7 | J | 5.2 | ug/Kg | 8260B/DoD |
| Aluminum | | 10000 | | 52 | mg/Kg | 6010C |
| Arsenic | | 3.9 | | 2.6 | mg/Kg | 6010C |
| Barium | | 48 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.49 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.7 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.15 | J | 0.52 | mg/Kg | 6010C |
| Calcium | | 2400 | | 100 | mg/Kg | 6010C |
| Chromium | | 15 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 6.9 | | 1.0 | mg/Kg | 6010C |
| Copper | | 29 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 20000 | | 83 | mg/Kg | 6010C |
| Lead | | 5.6 | | 0.93 | mg/Kg | 6010C |
| Magnesium | | 3900 | | 31 | mg/Kg | 6010C |
| Manganese | | 1000 | Q | 4.7 | mg/Kg | 6010C |
| Molybdenum | | 1.0 | J | 2.6 | mg/Kg | 6010C |
| Nickel | | 16 | | 4.2 | mg/Kg | 6010C |
| Potassium | | 1200 | | 310 | mg/Kg | 6010C |
| Sodium | | 93 | J | 520 | mg/Kg | 6010C |
| Vanadium | | 17 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 50 | | 8.3 | mg/Kg | 6010C |
| Percent Moisture | | 9.9 | | 0.10 | % | Moisture |
| Percent Solids | | 90 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-4** | **B255SCS0204AA** | | | | | |
| Methylene Chloride | | 4.2 | J | 5.3 | ug/Kg | 8260B/DoD |
| Aluminum | | 8400 | | 51 | mg/Kg | 6010C |
| Arsenic | | 5.5 | | 2.6 | mg/Kg | 6010C |
| Barium | | 34 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.46 | J | 0.51 | mg/Kg | 6010C |
| Boron | | 2.5 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.23 | J | 0.51 | mg/Kg | 6010C |
| Calcium | | 6800 | | 100 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 7.1 | | 1.0 | mg/Kg | 6010C |
| Copper | | 27 | Q | 5.1 | mg/Kg | 6010C |
| Iron | | 17000 | | 82 | mg/Kg | 6010C |
| Lead | | 19 | | 0.92 | mg/Kg | 6010C |
| Magnesium | | 4100 | | 31 | mg/Kg | 6010C |
| Manganese | | 700 | Q | 4.6 | mg/Kg | 6010C |
| Molybdenum | | 0.32 | J | 2.6 | mg/Kg | 6010C |
| Nickel | | 16 | | 4.1 | mg/Kg | 6010C |
| Potassium | | 1300 | | 310 | mg/Kg | 6010C |
| Vanadium | | 17 | Q | 2.0 | mg/Kg | 6010C |
| Zinc | | 50 | | 8.2 | mg/Kg | 6010C |
| Percent Moisture | | 8.4 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-5** | **B255SCS0208AA** | | | | | |
| Methylene Chloride | | 4.7 | J | 5.7 | ug/Kg | 8260B/DoD |
| Aluminum | | 11000 | | 56 | mg/Kg | 6010C |
| Arsenic | | 3.3 | | 2.8 | mg/Kg | 6010C |
| Barium | | 66 | | 2.3 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.56 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.31 | J | 0.56 | mg/Kg | 6010C |
| Calcium | | 5400 | | 110 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 6.7 | | 1.1 | mg/Kg | 6010C |
| Copper | | 19 | Q | 5.6 | mg/Kg | 6010C |
| Iron | | 17000 | | 90 | mg/Kg | 6010C |
| Lead | | 14 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 3300 | | 34 | mg/Kg | 6010C |
| Manganese | | 950 | Q | 5.1 | mg/Kg | 6010C |
| Molybdenum | | 0.49 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 12 | | 4.5 | mg/Kg | 6010C |
| Potassium | | 990 | | 340 | mg/Kg | 6010C |
| Vanadium | | 21 | Q | 2.3 | mg/Kg | 6010C |
| Zinc | | 58 | | 9.0 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-6** | **B255SCS0212AA** | | | | | |
| Methylene Chloride | | 4.4 | J | 5.4 | ug/Kg | 8260B/DoD |
| Aluminum | | 9000 | | 54 | mg/Kg | 6010C |
| Arsenic | | 3.4 | | 2.7 | mg/Kg | 6010C |
| Barium | | 37 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.54 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.13 | J | 0.54 | mg/Kg | 6010C |
| Calcium | | 2000 | | 110 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.8 | mg/Kg | 6010C |
| Cobalt | | 5.8 | | 1.1 | mg/Kg | 6010C |
| Copper | | 27 | Q | 5.4 | mg/Kg | 6010C |
| Iron | | 18000 | | 86 | mg/Kg | 6010C |
| Lead | | 5.7 | | 0.97 | mg/Kg | 6010C |
| Magnesium | | 3700 | | 32 | mg/Kg | 6010C |
| Manganese | | 960 | Q | 4.8 | mg/Kg | 6010C |
| Molybdenum | | 0.63 | J | 2.7 | mg/Kg | 6010C |
| Nickel | | 14 | | 4.3 | mg/Kg | 6010C |
| Potassium | | 1100 | | 320 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 48 | | 8.6 | mg/Kg | 6010C |
| Percent Moisture | | 9.5 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-7** | **B255SCS0304AA** | | | | | |
| Methylene Chloride | | 3.5 | J | 5.3 | ug/Kg | 8260B/DoD |
| Aluminum | | 7600 | | 50 | mg/Kg | 6010C |
| Arsenic | | 3.9 | | 2.5 | mg/Kg | 6010C |
| Barium | | 51 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.37 | J | 0.50 | mg/Kg | 6010C |
| Boron | | 3.0 | J | 9.9 | mg/Kg | 6010C |
| Cadmium | | 0.25 | J | 0.50 | mg/Kg | 6010C |
| Calcium | | 10000 | | 99 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.5 | mg/Kg | 6010C |
| Cobalt | | 5.9 | | 0.99 | mg/Kg | 6010C |
| Copper | | 25 | Q | 5.0 | mg/Kg | 6010C |
| Iron | | 14000 | | 79 | mg/Kg | 6010C |
| Lead | | 36 | | 0.89 | mg/Kg | 6010C |
| Magnesium | | 3100 | | 30 | mg/Kg | 6010C |
| Manganese | | 570 | Q | 4.5 | mg/Kg | 6010C |
| Nickel | | 13 | | 4.0 | mg/Kg | 6010C |
| Potassium | | 1100 | | 300 | mg/Kg | 6010C |
| Sodium | | 62 | J | 500 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 2.0 | mg/Kg | 6010C |
| Zinc | | 54 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 8.4 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-8** | **B255SCS0308AA** | | | | | |
| Methylene Chloride | | 4.1 | J | 5.5 | ug/Kg | 8260B/DoD |
| Aluminum | | 12000 | | 49 | mg/Kg | 6010C |
| Arsenic | | 4.1 | | 2.5 | mg/Kg | 6010C |
| Barium | | 35 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.48 | J | 0.49 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 9.8 | mg/Kg | 6010C |
| Cadmium | | 0.20 | J | 0.49 | mg/Kg | 6010C |
| Calcium | | 8500 | | 98 | mg/Kg | 6010C |
| Chromium | | 15 | Q | 3.4 | mg/Kg | 6010C |
| Cobalt | | 6.9 | | 0.98 | mg/Kg | 6010C |
| Copper | | 29 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 21000 | | 79 | mg/Kg | 6010C |
| Lead | | 6.9 | | 0.88 | mg/Kg | 6010C |
| Magnesium | | 4500 | | 29 | mg/Kg | 6010C |
| Manganese | | 900 | Q | 4.4 | mg/Kg | 6010C |
| Molybdenum | | 0.80 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 19 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 1100 | | 290 | mg/Kg | 6010C |
| Vanadium | | 20 | Q | 2.0 | mg/Kg | 6010C |
| Zinc | | 54 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 11 | | 0.10 | % | Moisture |
| Percent Solids | | 89 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-9** | **B255SCS0312AA** | | | | | |
| Methylene Chloride | | 4.1 | J | 5.4 | ug/Kg | 8260B/DoD |
| Aluminum | | 9000 | | 46 | mg/Kg | 6010C |
| Arsenic | | 3.9 | | 2.3 | mg/Kg | 6010C |
| Barium | | 38 | | 1.8 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.46 | mg/Kg | 6010C |
| Boron | | 2.1 | J | 9.1 | mg/Kg | 6010C |
| Cadmium | | 0.12 | J | 0.46 | mg/Kg | 6010C |
| Calcium | | 9000 | | 91 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.2 | mg/Kg | 6010C |
| Cobalt | | 6.5 | | 0.91 | mg/Kg | 6010C |
| Copper | | 34 | Q | 4.6 | mg/Kg | 6010C |
| Iron | | 18000 | | 73 | mg/Kg | 6010C |
| Lead | | 6.1 | | 0.82 | mg/Kg | 6010C |
| Magnesium | | 4200 | | 27 | mg/Kg | 6010C |
| Manganese | | 850 | Q | 4.1 | mg/Kg | 6010C |
| Molybdenum | | 0.60 | J | 2.3 | mg/Kg | 6010C |
| Nickel | | 15 | | 3.7 | mg/Kg | 6010C |
| Potassium | | 1100 | | 270 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 1.8 | mg/Kg | 6010C |
| Zinc | | 47 | | 7.3 | mg/Kg | 6010C |
| Percent Moisture | | 8.8 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-10FD** | **B255SCS0104AC** | | | | | |
| Methylene Chloride | | 3.6 | J | 5.4 | ug/Kg | 8260B/DoD |
| Aluminum | | 9800 | | 52 | mg/Kg | 6010C |
| Arsenic | | 3.5 | | 2.6 | mg/Kg | 6010C |
| Barium | | 33 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.7 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.17 | J | 0.52 | mg/Kg | 6010C |
| Calcium | | 2000 | | 100 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 5.6 | | 1.0 | mg/Kg | 6010C |
| Copper | | 21 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 17000 | | 83 | mg/Kg | 6010C |
| Lead | | 9.4 | | 0.93 | mg/Kg | 6010C |
| Magnesium | | 3400 | | 31 | mg/Kg | 6010C |
| Manganese | | 540 | Q | 4.7 | mg/Kg | 6010C |
| Nickel | | 14 | | 4.1 | mg/Kg | 6010C |
| Potassium | | 910 | | 310 | mg/Kg | 6010C |
| Vanadium | | 17 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 48 | | 8.3 | mg/Kg | 6010C |
| Percent Moisture | | 9.0 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |
| **280-42039-11EB** | **050613AE** | | | | | |
| Barium | | 0.82 | J | 10 | ug/L | 6010C |
| Iron | | 29 | J | 100 | ug/L | 6010C |
| Manganese | | 0.69 | J Q | 10 | ug/L | 6010C |

## METHOD SUMMARY

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds (GC/MS) | TAL DEN | SW846 8260B/DoD | |
| Purge and Trap | TAL DEN | | SW846 5030B |
| Metals (ICP) | TAL DEN | SW846 6010C | |
| Preparation, Metals | TAL DEN | | SW846 3050B |
| Percent Moisture | TAL DEN | EPA Moisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL DEN | SW846 8260C | |
| Purge and Trap | TAL DEN | | SW846 5030B |
| Metals (ICP) | TAL DEN | SW846 6010C | |
| Preparation, Total Metals | TAL DEN | | SW846 3010A |

**Lab References:**

TAL DEN = TestAmerica Denver

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8260B/DoD | Meier, Greg P | GPM |
| SW846 8260C | Moan, Matthew R | MRM |
| SW846 8260C | Tinkham, Sarah A | SAT |
| SW846 6010C | Bowen, Heidi E | HEB |
| SW846 6010C | Harre, John K | JKH |
| EPA Moisture | Sullivan, Josh | JS |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 05/06/2013 1440
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8495.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.214 g |
| Analysis Date: | 05/17/2013 1023 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.59 | 5.3 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.55 | 5.3 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.64 | 5.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.47 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.93 | 5.3 |
| 1,1-Dichloroethane | | 0.84 | U | 0.22 | 5.3 |
| 1,1-Dichloroethene | | 1.1 | U | 0.62 | 5.3 |
| 1,1-Dichloropropene | | 1.1 | U | 0.57 | 5.3 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.79 | 5.3 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.85 | 5.3 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.77 | 5.3 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.61 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.63 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.47 | 5.3 |
| 1,2-Dichloroethane | | 1.1 | U | 0.74 | 5.3 |
| 1,2-Dichloropropane | | 1.1 | U | 0.58 | 5.3 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.60 | 5.3 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.50 | 5.3 |
| 1,3-Dichloropropane | | 1.1 | U | 0.54 | 5.3 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.82 | 5.3 |
| 1,4-Dioxane | | 84 | U | 59 | 530 |
| 1-Chlorohexane | | 0.84 | U | 0.66 | 5.3 |
| 2,2-Dichloropropane | | 1.1 | U | 0.46 | 5.3 |
| 2-Butanone (MEK) | | 6.7 | U | 1.9 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.54 | 5.3 |
| 2-Hexanone | | 11 | U | 5.1 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.82 | 5.3 |
| 4-Isopropyltoluene | | 1.1 | U | 0.52 | 5.3 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.6 | 21 |
| Acetone | | 11 | U | 5.7 | 21 |
| Benzene | | 1.1 | U | 0.49 | 5.3 |
| Bromobenzene | | 1.1 | U | 0.52 | 5.3 |
| Bromoform | | 0.84 | U | 0.24 | 5.3 |
| Bromomethane | | 1.1 | U | 0.53 | 11 |
| Carbon disulfide | | 1.1 | U | 0.44 | 5.3 |
| Carbon tetrachloride | | 1.1 | U | 0.66 | 5.3 |
| Chlorobenzene | | 1.1 | U | 0.57 | 5.3 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.3 |
| Chlorodibromomethane | | 1.1 | U | 0.60 | 5.3 |
| Chloroethane | | 1.1 | U | 0.94 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.81 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.59 | 5.3 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.3 |
| Cyclohexane | | 1.7 | U | 0.42 | 5.3 |
| Dibromomethane | | 1.1 | U | 0.88 | 5.3 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 05/06/2013 1440
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8495.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.214 g |
| Analysis Date: | 05/17/2013 1023 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.84 | U | 0.23 | 5.3 |
| Dichlorodifluoromethane | | 1.1 | U | 0.55 | 11 |
| Ethylbenzene | | 1.1 | U | 0.70 | 5.3 |
| Ethylene Dibromide | | 1.1 | U | 0.55 | 5.3 |
| Hexachlorobutadiene | | 1.1 | U | 0.58 | 5.3 |
| Isopropylbenzene | | 1.1 | U | 0.62 | 5.3 |
| Methyl acetate | | 4.2 | U | 2.9 | 8.9 |
| Methyl tert-butyl ether | | 1.1 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.84 | U | 0.44 | 5.3 |
| Methylene Chloride | | 4.4 | J | 1.7 | 5.3 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.66 | 5.3 |
| n-Butylbenzene | | 1.1 | U | 0.59 | 5.3 |
| N-Propylbenzene | | 1.1 | U | 0.61 | 5.3 |
| o-Xylene | | 1.1 | U | 0.64 | 5.3 |
| sec-Butylbenzene | | 1.1 | U | 0.81 | 5.3 |
| Styrene | | 1.1 | U | 0.66 | 5.3 |
| tert-Butylbenzene | | 1.1 | U | 0.53 | 5.3 |
| Tetrachloroethene | | 1.1 | U | 0.62 | 5.3 |
| Toluene | | 1.1 | U | 0.73 | 5.3 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.41 | 5.3 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.70 | 5.3 |
| Trichloroethene | | 0.84 | U | 0.24 | 5.3 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.3 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 103 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 110 | | 71 - 126 |
| Toluene-d8 (Surr) | 103 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0108AA

Lab Sample ID: 280-42039-2
Client Matrix: Solid

% Moisture: 14.8

Date Sampled: 05/06/2013 1455
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8496.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.296 g |
| Analysis Date: | 05/17/2013 1043 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.62 | 5.5 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.58 | 5.5 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.68 | 5.5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 22 | U | 0.50 | 22 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.98 | 5.5 |
| 1,1-Dichloroethane | | 0.89 | U | 0.23 | 5.5 |
| 1,1-Dichloroethene | | 1.1 | U | 0.65 | 5.5 |
| 1,1-Dichloropropene | | 1.1 | U | 0.60 | 5.5 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.83 | 5.5 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.90 | 5.5 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.81 | 5.5 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.64 | 5.5 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.66 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.50 | 5.5 |
| 1,2-Dichloroethane | | 1.1 | U | 0.78 | 5.5 |
| 1,2-Dichloropropane | | 1.1 | U | 0.61 | 5.5 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.63 | 5.5 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.53 | 5.5 |
| 1,3-Dichloropropane | | 1.1 | U | 0.57 | 5.5 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.86 | 5.5 |
| 1,4-Dioxane | | 89 | U | 62 | 550 |
| 1-Chlorohexane | | 0.89 | U | 0.70 | 5.5 |
| 2,2-Dichloropropane | | 1.1 | U | 0.49 | 5.5 |
| 2-Butanone (MEK) | | 7.1 | U | 2.0 | 22 |
| 2-Chlorotoluene | | 1.1 | U | 0.57 | 5.5 |
| 2-Hexanone | | 11 | U | 5.4 | 22 |
| 4-Chlorotoluene | | 1.1 | U | 0.86 | 5.5 |
| 4-Isopropyltoluene | | 1.1 | U | 0.54 | 5.5 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.8 | 22 |
| Acetone | | 11 | U | 6.0 | 22 |
| Benzene | | 1.1 | U | 0.52 | 5.5 |
| Bromobenzene | | 1.1 | U | 0.54 | 5.5 |
| Bromoform | | 0.89 | U | 0.25 | 5.5 |
| Bromomethane | | 1.1 | U | 0.55 | 11 |
| Carbon disulfide | | 1.1 | U | 0.47 | 5.5 |
| Carbon tetrachloride | | 1.1 | U | 0.70 | 5.5 |
| Chlorobenzene | | 1.1 | U | 0.60 | 5.5 |
| Chlorobromomethane | | 1.1 | U | 0.33 | 5.5 |
| Chlorodibromomethane | | 1.1 | U | 0.63 | 5.5 |
| Chloroethane | | 1.1 | U | 0.99 | 11 |
| Chloroform | | 1.1 | U | 0.32 | 11 |
| Chloromethane | | 1.1 | U | 0.85 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.62 | 5.5 |
| cis-1,3-Dichloropropene | | 2.2 | U | 1.4 | 5.5 |
| Cyclohexane | | 1.8 | U | 0.44 | 5.5 |
| Dibromomethane | | 1.1 | U | 0.93 | 5.5 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0108AA

Lab Sample ID: 280-42039-2
Client Matrix: Solid

% Moisture: 14.8

Date Sampled: 05/06/2013 1455
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8496.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.296 g |
| Analysis Date: | 05/17/2013 1043 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.89 | U | 0.24 | 5.5 |
| Dichlorodifluoromethane | | 1.1 | U | 0.58 | 11 |
| Ethylbenzene | | 1.1 | U | 0.74 | 5.5 |
| Ethylene Dibromide | | 1.1 | U | 0.58 | 5.5 |
| Hexachlorobutadiene | | 1.1 | U | 0.61 | 5.5 |
| Isopropylbenzene | | 1.1 | U | 0.65 | 5.5 |
| Methyl acetate | | 4.4 | U | 3.0 | 9.4 |
| Methyl tert-butyl ether | | 1.1 | U | 0.38 | 22 |
| Methylcyclohexane | | 0.89 | U | 0.47 | 5.5 |
| Methylene Chloride | | 3.8 | J | 1.8 | 5.5 |
| m-Xylene & p-Xylene | | 2.2 | U | 1.2 | 3.5 |
| Naphthalene | | 1.1 | U | 0.70 | 5.5 |
| n-Butylbenzene | | 1.1 | U | 0.62 | 5.5 |
| N-Propylbenzene | | 1.1 | U | 0.64 | 5.5 |
| o-Xylene | | 1.1 | U | 0.68 | 5.5 |
| sec-Butylbenzene | | 1.1 | U | 0.85 | 5.5 |
| Styrene | | 1.1 | U | 0.70 | 5.5 |
| tert-Butylbenzene | | 1.1 | U | 0.55 | 5.5 |
| Tetrachloroethene | | 1.1 | U | 0.65 | 5.5 |
| Toluene | | 1.1 | U | 0.76 | 5.5 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.43 | 5.5 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.74 | 5.5 |
| Trichloroethene | | 0.89 | U | 0.25 | 5.5 |
| Trichlorofluoromethane | | 2.2 | U | 1.2 | 11 |
| Vinyl chloride | | 2.2 | U | 1.5 | 5.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 96 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 110 | | 71 - 126 |
| Toluene-d8 (Surr) | 101 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0112AA

Lab Sample ID: 280-42039-3
Client Matrix: Solid

% Moisture: 9.9

Date Sampled: 05/06/2013 1500
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8497.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.303 g |
| Analysis Date: | 05/17/2013 1102 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.0 | U | 0.59 | 5.2 |
| 1,1,1-Trichloroethane | | 1.0 | U | 0.54 | 5.2 |
| 1,1,2,2-Tetrachloroethane | | 1.0 | U | 0.64 | 5.2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.47 | 21 |
| 1,1,2-Trichloroethane | | 1.0 | U | 0.92 | 5.2 |
| 1,1-Dichloroethane | | 0.84 | U | 0.22 | 5.2 |
| 1,1-Dichloroethene | | 1.0 | U | 0.62 | 5.2 |
| 1,1-Dichloropropene | | 1.0 | U | 0.57 | 5.2 |
| 1,2,3-Trichlorobenzene | | 1.0 | U | 0.79 | 5.2 |
| 1,2,3-Trichloropropane | | 1.0 | U | 0.85 | 5.2 |
| 1,2,4-Trichlorobenzene | | 1.0 | U | 0.76 | 5.2 |
| 1,2,4-Trimethylbenzene | | 1.0 | U | 0.61 | 5.2 |
| 1,2-Dibromo-3-Chloropropane | | 1.0 | U | 0.63 | 10 |
| 1,2-Dichlorobenzene | | 1.0 | U | 0.47 | 5.2 |
| 1,2-Dichloroethane | | 1.0 | U | 0.73 | 5.2 |
| 1,2-Dichloropropane | | 1.0 | U | 0.58 | 5.2 |
| 1,3,5-Trimethylbenzene | | 1.0 | U | 0.60 | 5.2 |
| 1,3-Dichlorobenzene | | 1.0 | U | 0.50 | 5.2 |
| 1,3-Dichloropropane | | 1.0 | U | 0.53 | 5.2 |
| 1,4-Dichlorobenzene | | 1.0 | U | 0.82 | 5.2 |
| 1,4-Dioxane | | 84 | U | 59 | 520 |
| 1-Chlorohexane | | 0.84 | U | 0.66 | 5.2 |
| 2,2-Dichloropropane | | 1.0 | U | 0.46 | 5.2 |
| 2-Butanone (MEK) | | 6.7 | U | 1.9 | 21 |
| 2-Chlorotoluene | | 1.0 | U | 0.53 | 5.2 |
| 2-Hexanone | | 10 | U | 5.1 | 21 |
| 4-Chlorotoluene | | 1.0 | U | 0.82 | 5.2 |
| 4-Isopropyltoluene | | 1.0 | U | 0.51 | 5.2 |
| 4-Methyl-2-pentanone (MIBK) | | 10 | U | 4.6 | 21 |
| Acetone | | 10 | U | 5.6 | 21 |
| Benzene | | 1.0 | U | 0.49 | 5.2 |
| Bromobenzene | | 1.0 | U | 0.51 | 5.2 |
| Bromoform | | 0.84 | U | 0.24 | 5.2 |
| Bromomethane | | 1.0 | U | 0.52 | 10 |
| Carbon disulfide | | 1.0 | U | 0.44 | 5.2 |
| Carbon tetrachloride | | 1.0 | U | 0.66 | 5.2 |
| Chlorobenzene | | 1.0 | U | 0.57 | 5.2 |
| Chlorobromomethane | | 1.0 | U | 0.31 | 5.2 |
| Chlorodibromomethane | | 1.0 | U | 0.60 | 5.2 |
| Chloroethane | | 1.0 | U | 0.93 | 10 |
| Chloroform | | 1.0 | U | 0.30 | 10 |
| Chloromethane | | 1.0 | U | 0.81 | 10 |
| cis-1,2-Dichloroethene | | 1.0 | U | 0.59 | 5.2 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.2 |
| Cyclohexane | | 1.7 | U | 0.42 | 5.2 |
| Dibromomethane | | 1.0 | U | 0.88 | 5.2 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0112AA**

Lab Sample ID: 280-42039-3
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 05/06/2013 1500
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8497.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.303 g |
| Analysis Date: | 05/17/2013 1102 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.84 | U | 0.23 | 5.2 |
| Dichlorodifluoromethane | | 1.0 | U | 0.54 | 10 |
| Ethylbenzene | | 1.0 | U | 0.70 | 5.2 |
| Ethylene Dibromide | | 1.0 | U | 0.54 | 5.2 |
| Hexachlorobutadiene | | 1.0 | U | 0.58 | 5.2 |
| Isopropylbenzene | | 1.0 | U | 0.62 | 5.2 |
| Methyl acetate | | 4.2 | U | 2.9 | 8.9 |
| Methyl tert-butyl ether | | 1.0 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.84 | U | 0.44 | 5.2 |
| Methylene Chloride | | 3.7 | J | 1.7 | 5.2 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.3 |
| Naphthalene | | 1.0 | U | 0.66 | 5.2 |
| n-Butylbenzene | | 1.0 | U | 0.59 | 5.2 |
| N-Propylbenzene | | 1.0 | U | 0.61 | 5.2 |
| o-Xylene | | 1.0 | U | 0.64 | 5.2 |
| sec-Butylbenzene | | 1.0 | U | 0.81 | 5.2 |
| Styrene | | 1.0 | U | 0.66 | 5.2 |
| tert-Butylbenzene | | 1.0 | U | 0.52 | 5.2 |
| Tetrachloroethene | | 1.0 | U | 0.62 | 5.2 |
| Toluene | | 1.0 | U | 0.72 | 5.2 |
| trans-1,2-Dichloroethene | | 1.0 | U | 0.41 | 5.2 |
| trans-1,3-Dichloropropene | | 1.0 | U | 0.70 | 5.2 |
| Trichloroethene | | 0.84 | U | 0.24 | 5.2 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 10 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.2 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 96 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 112 | | 71 - 126 |
| Toluene-d8 (Surr) | 99 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0204AA

Lab Sample ID: 280-42039-4
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 05/06/2013 1515
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8498.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.120 g |
| Analysis Date: | 05/17/2013 1121 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.3 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.55 | 5.3 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.65 | 5.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.48 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.94 | 5.3 |
| 1,1-Dichloroethane | | 0.85 | U | 0.22 | 5.3 |
| 1,1-Dichloroethene | | 1.1 | U | 0.63 | 5.3 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.3 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.80 | 5.3 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.86 | 5.3 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.78 | 5.3 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.62 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.64 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.48 | 5.3 |
| 1,2-Dichloroethane | | 1.1 | U | 0.75 | 5.3 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.3 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.61 | 5.3 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.51 | 5.3 |
| 1,3-Dichloropropane | | 1.1 | U | 0.54 | 5.3 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.83 | 5.3 |
| 1,4-Dioxane | | 85 | U | 60 | 530 |
| 1-Chlorohexane | | 0.85 | U | 0.67 | 5.3 |
| 2,2-Dichloropropane | | 1.1 | U | 0.47 | 5.3 |
| 2-Butanone (MEK) | | 6.8 | U | 2.0 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.54 | 5.3 |
| 2-Hexanone | | 11 | U | 5.2 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.83 | 5.3 |
| 4-Isopropyltoluene | | 1.1 | U | 0.52 | 5.3 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.6 | 21 |
| Acetone | | 11 | U | 5.7 | 21 |
| Benzene | | 1.1 | U | 0.50 | 5.3 |
| Bromobenzene | | 1.1 | U | 0.52 | 5.3 |
| Bromoform | | 0.85 | U | 0.25 | 5.3 |
| Bromomethane | | 1.1 | U | 0.53 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.3 |
| Carbon tetrachloride | | 1.1 | U | 0.67 | 5.3 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.3 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.3 |
| Chlorodibromomethane | | 1.1 | U | 0.61 | 5.3 |
| Chloroethane | | 1.1 | U | 0.95 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.82 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.3 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.3 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.3 |
| Dibromomethane | | 1.1 | U | 0.90 | 5.3 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0204AA**

Lab Sample ID: 280-42039-4
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 05/06/2013 1515
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8498.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.120 g |
| Analysis Date: | 05/17/2013 1121 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.85 | U | 0.23 | 5.3 |
| Dichlorodifluoromethane | | 1.1 | U | 0.55 | 11 |
| Ethylbenzene | | 1.1 | U | 0.71 | 5.3 |
| Ethylene Dibromide | | 1.1 | U | 0.55 | 5.3 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.3 |
| Isopropylbenzene | | 1.1 | U | 0.63 | 5.3 |
| Methyl acetate | | 4.3 | U | 2.9 | 9.1 |
| Methyl tert-butyl ether | | 1.1 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.85 | U | 0.45 | 5.3 |
| Methylene Chloride | | 4.2 | J | 1.7 | 5.3 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.67 | 5.3 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.3 |
| N-Propylbenzene | | 1.1 | U | 0.62 | 5.3 |
| o-Xylene | | 1.1 | U | 0.65 | 5.3 |
| sec-Butylbenzene | | 1.1 | U | 0.82 | 5.3 |
| Styrene | | 1.1 | U | 0.67 | 5.3 |
| tert-Butylbenzene | | 1.1 | U | 0.53 | 5.3 |
| Tetrachloroethene | | 1.1 | U | 0.63 | 5.3 |
| Toluene | | 1.1 | U | 0.74 | 5.3 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.3 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.71 | 5.3 |
| Trichloroethene | | 0.85 | U | 0.25 | 5.3 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.3 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 100 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 112 | | 71 - 126 |
| Toluene-d8 (Surr) | 101 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0208AA

Lab Sample ID: 280-42039-5
Client Matrix: Solid

% Moisture: 14.7

Date Sampled: 05/06/2013 1519
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

Analysis Method: 8260B/DoD
Prep Method: 5030B
Dilution: 1.0
Analysis Date: 05/17/2013 1141
Prep Date: 05/17/2013 0600

Analysis Batch: 280-174695
Prep Batch: 280-174775

Instrument ID: VMS_G2
Lab File ID: g2_8499.D
Initial Weight/Volume: 5.104 g
Final Weight/Volume: 5 mL

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.64 | 5.7 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.60 | 5.7 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.70 | 5.7 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 23 | U | 0.52 | 23 |
| 1,1,2-Trichloroethane | | 1.1 | U | 1.0 | 5.7 |
| 1,1-Dichloroethane | | 0.92 | U | 0.24 | 5.7 |
| 1,1-Dichloroethene | | 1.1 | U | 0.68 | 5.7 |
| 1,1-Dichloropropene | | 1.1 | U | 0.62 | 5.7 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.86 | 5.7 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.93 | 5.7 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.84 | 5.7 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.67 | 5.7 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.69 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.52 | 5.7 |
| 1,2-Dichloroethane | | 1.1 | U | 0.80 | 5.7 |
| 1,2-Dichloropropane | | 1.1 | U | 0.63 | 5.7 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.65 | 5.7 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.55 | 5.7 |
| 1,3-Dichloropropane | | 1.1 | U | 0.59 | 5.7 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.90 | 5.7 |
| 1,4-Dioxane | | 92 | U | 64 | 570 |
| 1-Chlorohexane | | 0.92 | U | 0.72 | 5.7 |
| 2,2-Dichloropropane | | 1.1 | U | 0.51 | 5.7 |
| 2-Butanone (MEK) | | 7.4 | U | 2.1 | 23 |
| 2-Chlorotoluene | | 1.1 | U | 0.59 | 5.7 |
| 2-Hexanone | | 11 | U | 5.6 | 23 |
| 4-Chlorotoluene | | 1.1 | U | 0.90 | 5.7 |
| 4-Isopropyltoluene | | 1.1 | U | 0.56 | 5.7 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 5.0 | 23 |
| Acetone | | 11 | U | 6.2 | 23 |
| Benzene | | 1.1 | U | 0.54 | 5.7 |
| Bromobenzene | | 1.1 | U | 0.56 | 5.7 |
| Bromoform | | 0.92 | U | 0.26 | 5.7 |
| Bromomethane | | 1.1 | U | 0.57 | 11 |
| Carbon disulfide | | 1.1 | U | 0.48 | 5.7 |
| Carbon tetrachloride | | 1.1 | U | 0.72 | 5.7 |
| Chlorobenzene | | 1.1 | U | 0.62 | 5.7 |
| Chlorobromomethane | | 1.1 | U | 0.34 | 5.7 |
| Chlorodibromomethane | | 1.1 | U | 0.65 | 5.7 |
| Chloroethane | | 1.1 | U | 1.0 | 11 |
| Chloroform | | 1.1 | U | 0.33 | 11 |
| Chloromethane | | 1.1 | U | 0.88 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.64 | 5.7 |
| cis-1,3-Dichloropropene | | 2.3 | U | 1.5 | 5.7 |
| Cyclohexane | | 1.8 | U | 0.46 | 5.7 |
| Dibromomethane | | 1.1 | U | 0.97 | 5.7 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0208AA**

Lab Sample ID: 280-42039-5
Client Matrix: Solid

% Moisture: 14.7

Date Sampled: 05/06/2013 1519
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8499.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.104 g |
| Analysis Date: | 05/17/2013 1141 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.92 | U | 0.25 | 5.7 |
| Dichlorodifluoromethane | | 1.1 | U | 0.60 | 11 |
| Ethylbenzene | | 1.1 | U | 0.77 | 5.7 |
| Ethylene Dibromide | | 1.1 | U | 0.60 | 5.7 |
| Hexachlorobutadiene | | 1.1 | U | 0.63 | 5.7 |
| Isopropylbenzene | | 1.1 | U | 0.68 | 5.7 |
| Methyl acetate | | 4.6 | U | 3.2 | 9.8 |
| Methyl tert-butyl ether | | 1.1 | U | 0.39 | 23 |
| Methylcyclohexane | | 0.92 | U | 0.48 | 5.7 |
| Methylene Chloride | | 4.7 | J | 1.8 | 5.7 |
| m-Xylene & p-Xylene | | 2.3 | U | 1.2 | 3.7 |
| Naphthalene | | 1.1 | U | 0.72 | 5.7 |
| n-Butylbenzene | | 1.1 | U | 0.64 | 5.7 |
| N-Propylbenzene | | 1.1 | U | 0.67 | 5.7 |
| o-Xylene | | 1.1 | U | 0.70 | 5.7 |
| sec-Butylbenzene | | 1.1 | U | 0.88 | 5.7 |
| Styrene | | 1.1 | U | 0.72 | 5.7 |
| tert-Butylbenzene | | 1.1 | U | 0.57 | 5.7 |
| Tetrachloroethene | | 1.1 | U | 0.68 | 5.7 |
| Toluene | | 1.1 | U | 0.79 | 5.7 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.45 | 5.7 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.77 | 5.7 |
| Trichloroethene | | 0.92 | U | 0.26 | 5.7 |
| Trichlorofluoromethane | | 2.3 | U | 1.2 | 11 |
| Vinyl chloride | | 2.3 | U | 1.5 | 5.7 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 105 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 71 - 126 |
| Toluene-d8 (Surr) | 104 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0212AA**

Lab Sample ID: 280-42039-6
Client Matrix: Solid

% Moisture: 9.5

Date Sampled: 05/06/2013 1525
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8500.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.112 g |
| Analysis Date: | 05/17/2013 1200 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.4 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.56 | 5.4 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.66 | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 22 | U | 0.49 | 22 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.95 | 5.4 |
| 1,1-Dichloroethane | | 0.86 | U | 0.23 | 5.4 |
| 1,1-Dichloroethene | | 1.1 | U | 0.64 | 5.4 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.4 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.81 | 5.4 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.88 | 5.4 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.79 | 5.4 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.63 | 5.4 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.65 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.49 | 5.4 |
| 1,2-Dichloroethane | | 1.1 | U | 0.76 | 5.4 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.4 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.62 | 5.4 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.52 | 5.4 |
| 1,3-Dichloropropane | | 1.1 | U | 0.55 | 5.4 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.84 | 5.4 |
| 1,4-Dioxane | | 86 | U | 61 | 540 |
| 1-Chlorohexane | | 0.86 | U | 0.68 | 5.4 |
| 2,2-Dichloropropane | | 1.1 | U | 0.48 | 5.4 |
| 2-Butanone (MEK) | | 6.9 | U | 2.0 | 22 |
| 2-Chlorotoluene | | 1.1 | U | 0.55 | 5.4 |
| 2-Hexanone | | 11 | U | 5.3 | 22 |
| 4-Chlorotoluene | | 1.1 | U | 0.84 | 5.4 |
| 4-Isopropyltoluene | | 1.1 | U | 0.53 | 5.4 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.7 | 22 |
| Acetone | | 11 | U | 5.8 | 22 |
| Benzene | | 1.1 | U | 0.51 | 5.4 |
| Bromobenzene | | 1.1 | U | 0.53 | 5.4 |
| Bromoform | | 0.86 | U | 0.25 | 5.4 |
| Bromomethane | | 1.1 | U | 0.54 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.4 |
| Carbon tetrachloride | | 1.1 | U | 0.68 | 5.4 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.4 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.4 |
| Chlorodibromomethane | | 1.1 | U | 0.62 | 5.4 |
| Chloroethane | | 1.1 | U | 0.96 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.83 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.4 |
| cis-1,3-Dichloropropene | | 2.2 | U | 1.4 | 5.4 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.4 |
| Dibromomethane | | 1.1 | U | 0.91 | 5.4 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0212AA**

Lab Sample ID: 280-42039-6
Client Matrix: Solid

% Moisture: 9.5

Date Sampled: 05/06/2013 1525
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8500.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.112 g |
| Analysis Date: | 05/17/2013 1200 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.86 | U | 0.24 | 5.4 |
| Dichlorodifluoromethane | | 1.1 | U | 0.56 | 11 |
| Ethylbenzene | | 1.1 | U | 0.72 | 5.4 |
| Ethylene Dibromide | | 1.1 | U | 0.56 | 5.4 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.4 |
| Isopropylbenzene | | 1.1 | U | 0.64 | 5.4 |
| Methyl acetate | | 4.3 | U | 3.0 | 9.2 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 22 |
| Methylcyclohexane | | 0.86 | U | 0.45 | 5.4 |
| Methylene Chloride | | 4.4 | J | 1.7 | 5.4 |
| m-Xylene & p-Xylene | | 2.2 | U | 1.1 | 3.5 |
| Naphthalene | | 1.1 | U | 0.68 | 5.4 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.4 |
| N-Propylbenzene | | 1.1 | U | 0.63 | 5.4 |
| o-Xylene | | 1.1 | U | 0.66 | 5.4 |
| sec-Butylbenzene | | 1.1 | U | 0.83 | 5.4 |
| Styrene | | 1.1 | U | 0.68 | 5.4 |
| tert-Butylbenzene | | 1.1 | U | 0.54 | 5.4 |
| Tetrachloroethene | | 1.1 | U | 0.64 | 5.4 |
| Toluene | | 1.1 | U | 0.75 | 5.4 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.4 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.72 | 5.4 |
| Trichloroethene | | 0.86 | U | 0.25 | 5.4 |
| Trichlorofluoromethane | | 2.2 | U | 1.1 | 11 |
| Vinyl chloride | | 2.2 | U | 1.4 | 5.4 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 99 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 105 | | 71 - 126 |
| Toluene-d8 (Surr) | 102 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0304AA

Lab Sample ID: 280-42039-7
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 05/06/2013 1545
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8501.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.178 g |
| Analysis Date: | 05/17/2013 1219 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.59 | 5.3 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.55 | 5.3 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.64 | 5.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.47 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.93 | 5.3 |
| 1,1-Dichloroethane | | 0.84 | U | 0.22 | 5.3 |
| 1,1-Dichloroethene | | 1.1 | U | 0.62 | 5.3 |
| 1,1-Dichloropropene | | 1.1 | U | 0.57 | 5.3 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.79 | 5.3 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.85 | 5.3 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.77 | 5.3 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.61 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.63 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.47 | 5.3 |
| 1,2-Dichloroethane | | 1.1 | U | 0.74 | 5.3 |
| 1,2-Dichloropropane | | 1.1 | U | 0.58 | 5.3 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.60 | 5.3 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.51 | 5.3 |
| 1,3-Dichloropropane | | 1.1 | U | 0.54 | 5.3 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.82 | 5.3 |
| 1,4-Dioxane | | 84 | U | 59 | 530 |
| 1-Chlorohexane | | 0.84 | U | 0.66 | 5.3 |
| 2,2-Dichloropropane | | 1.1 | U | 0.46 | 5.3 |
| 2-Butanone (MEK) | | 6.7 | U | 1.9 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.54 | 5.3 |
| 2-Hexanone | | 11 | U | 5.2 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.82 | 5.3 |
| 4-Isopropyltoluene | | 1.1 | U | 0.52 | 5.3 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.6 | 21 |
| Acetone | | 11 | U | 5.7 | 21 |
| Benzene | | 1.1 | U | 0.50 | 5.3 |
| Bromobenzene | | 1.1 | U | 0.52 | 5.3 |
| Bromoform | | 0.84 | U | 0.24 | 5.3 |
| Bromomethane | | 1.1 | U | 0.53 | 11 |
| Carbon disulfide | | 1.1 | U | 0.44 | 5.3 |
| Carbon tetrachloride | | 1.1 | U | 0.66 | 5.3 |
| Chlorobenzene | | 1.1 | U | 0.57 | 5.3 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.3 |
| Chlorodibromomethane | | 1.1 | U | 0.60 | 5.3 |
| Chloroethane | | 1.1 | U | 0.94 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.81 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.59 | 5.3 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.3 |
| Cyclohexane | | 1.7 | U | 0.42 | 5.3 |
| Dibromomethane | | 1.1 | U | 0.89 | 5.3 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0304AA**

Lab Sample ID: 280-42039-7
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 05/06/2013 1545
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8501.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.178 g |
| Analysis Date: | 05/17/2013 1219 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.84 | U | 0.23 | 5.3 |
| Dichlorodifluoromethane | | 1.1 | U | 0.55 | 11 |
| Ethylbenzene | | 1.1 | U | 0.71 | 5.3 |
| Ethylene Dibromide | | 1.1 | U | 0.55 | 5.3 |
| Hexachlorobutadiene | | 1.1 | U | 0.58 | 5.3 |
| Isopropylbenzene | | 1.1 | U | 0.62 | 5.3 |
| Methyl acetate | | 4.2 | U | 2.9 | 9.0 |
| Methyl tert-butyl ether | | 1.1 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.84 | U | 0.44 | 5.3 |
| Methylene Chloride | | 3.5 | J | 1.7 | 5.3 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.66 | 5.3 |
| n-Butylbenzene | | 1.1 | U | 0.59 | 5.3 |
| N-Propylbenzene | | 1.1 | U | 0.61 | 5.3 |
| o-Xylene | | 1.1 | U | 0.64 | 5.3 |
| sec-Butylbenzene | | 1.1 | U | 0.81 | 5.3 |
| Styrene | | 1.1 | U | 0.66 | 5.3 |
| tert-Butylbenzene | | 1.1 | U | 0.53 | 5.3 |
| Tetrachloroethene | | 1.1 | U | 0.62 | 5.3 |
| Toluene | | 1.1 | U | 0.73 | 5.3 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.41 | 5.3 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.71 | 5.3 |
| Trichloroethene | | 0.84 | U | 0.24 | 5.3 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.3 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 98 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 109 | | 71 - 126 |
| Toluene-d8 (Surr) | 102 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0308AA

Lab Sample ID: 280-42039-8
Client Matrix: Solid

% Moisture: 10.7

Date Sampled: 05/06/2013 1552
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8502.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.097 g |
| Analysis Date: | 05/17/2013 1239 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.61 | 5.5 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.57 | 5.5 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.67 | 5.5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 22 | U | 0.49 | 22 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.97 | 5.5 |
| 1,1-Dichloroethane | | 0.88 | U | 0.23 | 5.5 |
| 1,1-Dichloroethene | | 1.1 | U | 0.65 | 5.5 |
| 1,1-Dichloropropene | | 1.1 | U | 0.59 | 5.5 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.82 | 5.5 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.89 | 5.5 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.80 | 5.5 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.64 | 5.5 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.66 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.49 | 5.5 |
| 1,2-Dichloroethane | | 1.1 | U | 0.77 | 5.5 |
| 1,2-Dichloropropane | | 1.1 | U | 0.60 | 5.5 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.63 | 5.5 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.53 | 5.5 |
| 1,3-Dichloropropane | | 1.1 | U | 0.56 | 5.5 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.86 | 5.5 |
| 1,4-Dioxane | | 88 | U | 62 | 550 |
| 1-Chlorohexane | | 0.88 | U | 0.69 | 5.5 |
| 2,2-Dichloropropane | | 1.1 | U | 0.48 | 5.5 |
| 2-Butanone (MEK) | | 7.0 | U | 2.0 | 22 |
| 2-Chlorotoluene | | 1.1 | U | 0.56 | 5.5 |
| 2-Hexanone | | 11 | U | 5.4 | 22 |
| 4-Chlorotoluene | | 1.1 | U | 0.86 | 5.5 |
| 4-Isopropyltoluene | | 1.1 | U | 0.54 | 5.5 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.8 | 22 |
| Acetone | | 11 | U | 5.9 | 22 |
| Benzene | | 1.1 | U | 0.52 | 5.5 |
| Bromobenzene | | 1.1 | U | 0.54 | 5.5 |
| Bromoform | | 0.88 | U | 0.25 | 5.5 |
| Bromomethane | | 1.1 | U | 0.55 | 11 |
| Carbon disulfide | | 1.1 | U | 0.46 | 5.5 |
| Carbon tetrachloride | | 1.1 | U | 0.69 | 5.5 |
| Chlorobenzene | | 1.1 | U | 0.59 | 5.5 |
| Chlorobromomethane | | 1.1 | U | 0.33 | 5.5 |
| Chlorodibromomethane | | 1.1 | U | 0.63 | 5.5 |
| Chloroethane | | 1.1 | U | 0.98 | 11 |
| Chloroform | | 1.1 | U | 0.32 | 11 |
| Chloromethane | | 1.1 | U | 0.85 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.61 | 5.5 |
| cis-1,3-Dichloropropene | | 2.2 | U | 1.4 | 5.5 |
| Cyclohexane | | 1.8 | U | 0.44 | 5.5 |
| Dibromomethane | | 1.1 | U | 0.92 | 5.5 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0308AA**

Lab Sample ID: 280-42039-8
Client Matrix: Solid

% Moisture: 10.7

Date Sampled: 05/06/2013 1552
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8502.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.097 g |
| Analysis Date: | 05/17/2013 1239 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.88 | U | 0.24 | 5.5 |
| Dichlorodifluoromethane | | 1.1 | U | 0.57 | 11 |
| Ethylbenzene | | 1.1 | U | 0.74 | 5.5 |
| Ethylene Dibromide | | 1.1 | U | 0.57 | 5.5 |
| Hexachlorobutadiene | | 1.1 | U | 0.60 | 5.5 |
| Isopropylbenzene | | 1.1 | U | 0.65 | 5.5 |
| Methyl acetate | | 4.4 | U | 3.0 | 9.3 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 22 |
| Methylcyclohexane | | 0.88 | U | 0.46 | 5.5 |
| Methylene Chloride | | 4.1 | J | 1.8 | 5.5 |
| m-Xylene & p-Xylene | | 2.2 | U | 1.1 | 3.5 |
| Naphthalene | | 1.1 | U | 0.69 | 5.5 |
| n-Butylbenzene | | 1.1 | U | 0.61 | 5.5 |
| N-Propylbenzene | | 1.1 | U | 0.64 | 5.5 |
| o-Xylene | | 1.1 | U | 0.67 | 5.5 |
| sec-Butylbenzene | | 1.1 | U | 0.85 | 5.5 |
| Styrene | | 1.1 | U | 0.69 | 5.5 |
| tert-Butylbenzene | | 1.1 | U | 0.55 | 5.5 |
| Tetrachloroethene | | 1.1 | U | 0.65 | 5.5 |
| Toluene | | 1.1 | U | 0.76 | 5.5 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.43 | 5.5 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.74 | 5.5 |
| Trichloroethene | | 0.88 | U | 0.25 | 5.5 |
| Trichlorofluoromethane | | 2.2 | U | 1.1 | 11 |
| Vinyl chloride | | 2.2 | U | 1.5 | 5.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 98 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 71 - 126 |
| Toluene-d8 (Surr) | 103 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0312AA**

Lab Sample ID: 280-42039-9
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 05/06/2013 1559
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8503.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.099 g |
| Analysis Date: | 05/17/2013 1258 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.4 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.56 | 5.4 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.66 | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.48 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.95 | 5.4 |
| 1,1-Dichloroethane | | 0.86 | U | 0.23 | 5.4 |
| 1,1-Dichloroethene | | 1.1 | U | 0.63 | 5.4 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.4 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.81 | 5.4 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.87 | 5.4 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.78 | 5.4 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.62 | 5.4 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.64 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.48 | 5.4 |
| 1,2-Dichloroethane | | 1.1 | U | 0.75 | 5.4 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.4 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.61 | 5.4 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.52 | 5.4 |
| 1,3-Dichloropropane | | 1.1 | U | 0.55 | 5.4 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.84 | 5.4 |
| 1,4-Dioxane | | 86 | U | 60 | 540 |
| 1-Chlorohexane | | 0.86 | U | 0.68 | 5.4 |
| 2,2-Dichloropropane | | 1.1 | U | 0.47 | 5.4 |
| 2-Butanone (MEK) | | 6.9 | U | 2.0 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.55 | 5.4 |
| 2-Hexanone | | 11 | U | 5.3 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.84 | 5.4 |
| 4-Isopropyltoluene | | 1.1 | U | 0.53 | 5.4 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.7 | 21 |
| Acetone | | 11 | U | 5.8 | 21 |
| Benzene | | 1.1 | U | 0.51 | 5.4 |
| Bromobenzene | | 1.1 | U | 0.53 | 5.4 |
| Bromoform | | 0.86 | U | 0.25 | 5.4 |
| Bromomethane | | 1.1 | U | 0.54 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.4 |
| Carbon tetrachloride | | 1.1 | U | 0.68 | 5.4 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.4 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.4 |
| Chlorodibromomethane | | 1.1 | U | 0.61 | 5.4 |
| Chloroethane | | 1.1 | U | 0.96 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.83 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.4 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.4 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.4 |
| Dibromomethane | | 1.1 | U | 0.90 | 5.4 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0312AA**

Lab Sample ID: 280-42039-9 | Date Sampled: 05/06/2013 1559
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8503.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.099 g |
| Analysis Date: | 05/17/2013 1258 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.86 | U | 0.24 | 5.4 |
| Dichlorodifluoromethane | | 1.1 | U | 0.56 | 11 |
| Ethylbenzene | | 1.1 | U | 0.72 | 5.4 |
| Ethylene Dibromide | | 1.1 | U | 0.56 | 5.4 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.4 |
| Isopropylbenzene | | 1.1 | U | 0.63 | 5.4 |
| Methyl acetate | | 4.3 | U | 3.0 | 9.1 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 21 |
| Methylcyclohexane | | 0.86 | U | 0.45 | 5.4 |
| Methylene Chloride | | 4.1 | J | 1.7 | 5.4 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.68 | 5.4 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.4 |
| N-Propylbenzene | | 1.1 | U | 0.62 | 5.4 |
| o-Xylene | | 1.1 | U | 0.66 | 5.4 |
| sec-Butylbenzene | | 1.1 | U | 0.83 | 5.4 |
| Styrene | | 1.1 | U | 0.68 | 5.4 |
| tert-Butylbenzene | | 1.1 | U | 0.54 | 5.4 |
| Tetrachloroethene | | 1.1 | U | 0.63 | 5.4 |
| Toluene | | 1.1 | U | 0.74 | 5.4 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.4 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.72 | 5.4 |
| Trichloroethene | | 0.86 | U | 0.25 | 5.4 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.4 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 98 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 108 | | 71 - 126 |
| Toluene-d8 (Surr) | 100 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0104AC

Lab Sample ID: 280-42039-10FD
Client Matrix: Solid

% Moisture: 9.0

Date Sampled: 05/06/2013 1442
Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8504.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.116 g |
| Analysis Date: | 05/17/2013 1318 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.4 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.56 | 5.4 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.65 | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.48 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.94 | 5.4 |
| 1,1-Dichloroethane | | 0.86 | U | 0.23 | 5.4 |
| 1,1-Dichloroethene | | 1.1 | U | 0.63 | 5.4 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.4 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.81 | 5.4 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.87 | 5.4 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.78 | 5.4 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.62 | 5.4 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.64 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.48 | 5.4 |
| 1,2-Dichloroethane | | 1.1 | U | 0.75 | 5.4 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.4 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.61 | 5.4 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.52 | 5.4 |
| 1,3-Dichloropropane | | 1.1 | U | 0.55 | 5.4 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.84 | 5.4 |
| 1,4-Dioxane | | 86 | U | 60 | 540 |
| 1-Chlorohexane | | 0.86 | U | 0.68 | 5.4 |
| 2,2-Dichloropropane | | 1.1 | U | 0.47 | 5.4 |
| 2-Butanone (MEK) | | 6.9 | U | 2.0 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.55 | 5.4 |
| 2-Hexanone | | 11 | U | 5.3 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.84 | 5.4 |
| 4-Isopropyltoluene | | 1.1 | U | 0.53 | 5.4 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.7 | 21 |
| Acetone | | 11 | U | 5.8 | 21 |
| Benzene | | 1.1 | U | 0.50 | 5.4 |
| Bromobenzene | | 1.1 | U | 0.53 | 5.4 |
| Bromoform | | 0.86 | U | 0.25 | 5.4 |
| Bromomethane | | 1.1 | U | 0.54 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.4 |
| Carbon tetrachloride | | 1.1 | U | 0.68 | 5.4 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.4 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.4 |
| Chlorodibromomethane | | 1.1 | U | 0.61 | 5.4 |
| Chloroethane | | 1.1 | U | 0.96 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.83 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.4 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.4 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.4 |
| Dibromomethane | | 1.1 | U | 0.90 | 5.4 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0104AC

Lab Sample ID: 280-42039-10FD

Client Matrix: Solid

% Moisture: 9.0

Date Sampled: 05/06/2013 1442

Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8504.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.116 g |
| Analysis Date: | 05/17/2013 1318 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.86 | U | 0.24 | 5.4 |
| Dichlorodifluoromethane | | 1.1 | U | 0.56 | 11 |
| Ethylbenzene | | 1.1 | U | 0.72 | 5.4 |
| Ethylene Dibromide | | 1.1 | U | 0.56 | 5.4 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.4 |
| Isopropylbenzene | | 1.1 | U | 0.63 | 5.4 |
| Methyl acetate | | 4.3 | U | 3.0 | 9.1 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 21 |
| Methylcyclohexane | | 0.86 | U | 0.45 | 5.4 |
| Methylene Chloride | | 3.6 | J | 1.7 | 5.4 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.68 | 5.4 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.4 |
| N-Propylbenzene | | 1.1 | U | 0.62 | 5.4 |
| o-Xylene | | 1.1 | U | 0.65 | 5.4 |
| sec-Butylbenzene | | 1.1 | U | 0.83 | 5.4 |
| Styrene | | 1.1 | U | 0.68 | 5.4 |
| tert-Butylbenzene | | 1.1 | U | 0.54 | 5.4 |
| Tetrachloroethene | | 1.1 | U | 0.63 | 5.4 |
| Toluene | | 1.1 | U | 0.74 | 5.4 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.4 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.72 | 5.4 |
| Trichloroethene | | 0.86 | U | 0.25 | 5.4 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.4 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 100 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 107 | | 71 - 126 |
| Toluene-d8 (Surr) | 103 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AE**

Lab Sample ID: 280-42039-11EB
Client Matrix: Water

Date Sampled: 05/06/2013 1630
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4205.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/11/2013 0656 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/11/2013 0656 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AE**

Lab Sample ID: 280-42039-11EB
Client Matrix: Water

Date Sampled: 05/06/2013 1630
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4205.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/11/2013 0656 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/11/2013 0656 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 85 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 85 | | 85 - 115 |
| Toluene-d8 (Surr) | 88 | | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** 050613AF

Lab Sample ID: 280-42039-12FB

Client Matrix: Water

Date Sampled: 05/06/2013 1530

Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4289.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/14/2013 0111 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/14/2013 0111 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** 050613AF

Lab Sample ID: 280-42039-12FB

Client Matrix: Water

Date Sampled: 05/06/2013 1530

Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4289.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/14/2013 0111 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/14/2013 0111 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 95 | | 85 - 115 |
| Toluene-d8 (Surr) | 99 | | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AR**

Lab Sample ID: 280-42039-13TB
Client Matrix: Water

Date Sampled: 05/06/2013 0900
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | g2_8406.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2349 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2349 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AR**

Lab Sample ID: 280-42039-13TB
Client Matrix: Water

Date Sampled: 05/06/2013 0900
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | g2_8406.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2349 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2349 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 112 | | 85 - 115 |
| Toluene-d8 (Surr) | 104 | | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 05/06/2013 1440
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 05/15/2013 1045 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9000 | | 1.5 | 47 |
| Antimony | | 0.57 | U | 0.36 | 1.9 |
| Arsenic | | 4.8 | | 0.62 | 2.4 |
| Barium | | 46 | J | 0.072 | 1.9 |
| Beryllium | | 0.41 | J | 0.031 | 0.47 |
| Boron | | 1.6 | J | 0.93 | 9.5 |
| Cadmium | | 0.18 | J | 0.039 | 0.47 |
| Chromium | | 10 | ~~J~~ | 0.055 | 3.3 |
| Cobalt | | 7.6 | J | 0.095 | 0.95 |
| Copper | | 33 | ~~J~~ | 0.21 | 4.7 |
| Lead | | 6.8 | J | 0.26 | 0.85 |
| Magnesium | | 3700 | | 3.5 | 28 |
| Manganese | | 1300 | ~~J~~ J | 0.095 | 4.3 |
| Molybdenum | | 0.29 | J | 0.25 | 2.4 |
| Nickel | | 18 | | 0.12 | 3.8 |
| Potassium | | 990 | | 39 | 280 |
| Selenium | | 1.1 | U | 0.81 | 2.8 |
| Silver | | 0.19 | U | 0.15 | 1.4 |
| Thallium | | 1.1 | U | 0.61 | 2.8 |
| Vanadium | | 16 | ~~J~~ | 0.089 | 1.9 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 05/16/2013 1443 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 7300 | J | 13 | 95 |
| Iron | | 21000 | | 3.6 | 76 |
| Sodium | | 95 | U | 56 | 470 |
| Zinc | | 43 | | 0.38 | 7.6 |

CMT 9/8/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0108AA**

Lab Sample ID: 280-42039-2
Client Matrix: Solid

% Moisture: 14.8

Date Sampled: 05/06/2013 1455
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 05/15/2013 1047 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 11000 | | 1.6 | 52 |
| Antimony | | 0.63 | U | 0.40 | 2.1 |
| Arsenic | | 4.0 | | 0.69 | 2.6 |
| Barium | | 86 | | 0.080 | 2.1 |
| Beryllium | | 0.41 | J | 0.035 | 0.52 |
| Boron | | 1.2 | J | 1.0 | 10 |
| Cadmium | | 0.23 | J | 0.043 | 0.52 |
| Chromium | | 13 | | 0.061 | 3.7 |
| Cobalt | | 6.2 | | 0.10 | 1.0 |
| Copper | | 15 | | 0.23 | 5.2 |
| Lead | | 9.4 | | 0.28 | 0.94 |
| Magnesium | | 2200 | | 3.9 | 31 |
| Manganese | | 1500 | | 0.10 | 4.7 |
| Molybdenum | | 1.0 | J | 0.27 | 2.6 |
| Nickel | | 11 | | 0.13 | 4.2 |
| Potassium | | 850 | | 43 | 310 |
| Selenium | | 1.3 | U | 0.90 | 3.1 |
| Silver | | 0.19 | J | 0.17 | 1.6 |
| Thallium | | 1.3 | U | 0.68 | 3.1 |
| Vanadium | | 24 | | 0.099 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 05/16/2013 1445 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 3700 | | 15 | 100 |
| Iron | | 21000 | | 4.0 | 84 |
| Sodium | | 170 | J | 62 | 520 |
| Zinc | | 52 | | 0.42 | 8.4 |

CLH 7/8/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0112AA

Lab Sample ID: 280-42039-3
Client Matrix: Solid

% Moisture: 9.9

Date Sampled: 05/06/2013 1500
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/15/2013 1050 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 10000 | | 1.6 | 52 |
| Antimony | | 0.62 | U | 0.39 | 2.1 |
| Arsenic | | 3.9 | | 0.68 | 2.6 |
| Barium | | 48 | | 0.079 | 2.1 |
| Beryllium | | 0.49 | J | 0.034 | 0.52 |
| Boron | | 1.7 | J | 1.0 | 10 |
| Cadmium | | 0.15 | J | 0.043 | 0.52 |
| Chromium | | 15 | | 0.060 | 3.6 |
| Cobalt | | 6.9 | | 0.10 | 1.0 |
| Copper | | 29 | | 0.23 | 5.2 |
| Lead | | 5.6 | | 0.28 | 0.93 |
| Magnesium | | 3900 | | 3.8 | 31 |
| Manganese | | 1000 | | 0.10 | 4.7 |
| Molybdenum | | 1.0 | J | 0.27 | 2.6 |
| Nickel | | 16 | | 0.13 | 4.2 |
| Potassium | | 1200 | | 43 | 310 |
| Selenium | | 1.2 | U | 0.89 | 3.1 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Thallium | | 1.2 | U | 0.67 | 3.1 |
| Vanadium | | 17 | | 0.098 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/16/2013 1448 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 2400 | | 15 | 100 |
| Iron | | 20000 | | 3.9 | 83 |
| Sodium | | 93 | J | 61 | 520 |
| Zinc | | 50 | | 0.41 | 8.3 |

cvtt
7/8/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0204AA**

Lab Sample ID: 280-42039-4
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 05/06/2013 1515
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/15/2013 1052 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 8400 | | 1.6 | 51 |
| Antimony | | 0.61 | U | 0.39 | 2.0 |
| Arsenic | | 5.5 | | 0.67 | 2.6 |
| Barium | | 34 | | 0.078 | 2.0 |
| Beryllium | | 0.46 | J | 0.034 | 0.51 |
| Boron | | 2.5 | J | 1.0 | 10 |
| Cadmium | | 0.23 | J | 0.042 | 0.51 |
| Chromium | | 11 | ~~Q~~ | 0.059 | 3.6 |
| Cobalt | | 7.1 | | 0.10 | 1.0 |
| Copper | | 27 | ~~Q~~ | 0.22 | 5.1 |
| Lead | | 19 | | 0.28 | 0.92 |
| Magnesium | | 4100 | | 3.8 | 31 |
| Manganese | | 700 | ~~Q~~ | 0.10 | 4.6 |
| Molybdenum | | 0.32 | J | 0.27 | 2.6 |
| Nickel | | 16 | | 0.13 | 4.1 |
| Potassium | | 1300 | | 42 | 310 |
| Selenium | | 1.2 | U | 0.88 | 3.1 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.66 | 3.1 |
| Vanadium | | 17 | ~~Q~~ | 0.096 | 2.0 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/16/2013 1500 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 6800 | | 14 | 100 |
| Iron | | 17000 | | 3.9 | 82 |
| Sodium | | 100 | U | 60 | 510 |
| Zinc | | 50 | | 0.41 | 8.2 |

CWH
7/8/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0208AA

Lab Sample ID: 280-42039-5
Client Matrix: Solid

% Moisture: 14.7

Date Sampled: 05/06/2013 1519
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Analysis Date: | 05/15/2013 1104 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 11000 | | 1.7 | 56 |
| Antimony | | 0.68 | U | 0.43 | 2.3 |
| Arsenic | | 3.3 | | 0.74 | 2.8 |
| Barium | | 66 | | 0.086 | 2.3 |
| Beryllium | | 0.39 | J | 0.037 | 0.56 |
| Boron | | 1.8 | J | 1.1 | 11 |
| Cadmium | | 0.31 | J | 0.046 | 0.56 |
| Chromium | | 12 | | 0.065 | 3.9 |
| Cobalt | | 6.7 | | 0.11 | 1.1 |
| Copper | | 19 | | 0.24 | 5.6 |
| Lead | | 14 | | 0.30 | 1.0 |
| Magnesium | | 3300 | | 4.2 | 34 |
| Manganese | | 950 | | 0.11 | 5.1 |
| Molybdenum | | 0.49 | J | 0.29 | 2.8 |
| Nickel | | 12 | | 0.14 | 4.5 |
| Potassium | | 990 | | 46 | 340 |
| Selenium | | 1.4 | U | 0.97 | 3.4 |
| Silver | | 0.23 | U | 0.18 | 1.7 |
| Thallium | | 1.4 | U | 0.73 | 3.4 |
| Vanadium | | 21 | | 0.11 | 2.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Analysis Date: | 05/16/2013 1502 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 5400 | | 16 | 110 |
| Iron | | 17000 | | 4.3 | 90 |
| Sodium | | 110 | U | 67 | 560 |
| Zinc | | 58 | | 0.45 | 9.0 |

CLH
7/8/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0212AA

Lab Sample ID: 280-42039-6
Client Matrix: Solid

% Moisture: 9.5

Date Sampled: 05/06/2013 1525
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.03 g |
| Analysis Date: | 05/15/2013 1107 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9000 | | 1.7 | 54 |
| Antimony | | 0.64 | U | 0.41 | 2.1 |
| Arsenic | | 3.4 | | 0.71 | 2.7 |
| Barium | | 37 | | 0.081 | 2.1 |
| Beryllium | | 0.39 | J | 0.035 | 0.54 |
| Boron | | 1.8 | J | 1.1 | 11 |
| Cadmium | | 0.13 | J | 0.044 | 0.54 |
| Chromium | | 12 | ~~Q~~ | 0.062 | 3.8 |
| Cobalt | | 5.8 | | 0.11 | 1.1 |
| Copper | | 27 | ~~Q~~ | 0.23 | 5.4 |
| Lead | | 5.7 | | 0.29 | 0.97 |
| Magnesium | | 3700 | | 4.0 | 32 |
| Manganese | | 960 | ~~Q~~ | 0.11 | 4.8 |
| Molybdenum | | 0.63 | J | 0.28 | 2.7 |
| Nickel | | 14 | | 0.13 | 4.3 |
| Potassium | | 1100 | | 44 | 320 |
| Selenium | | 1.3 | U | 0.92 | 3.2 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Thallium | | 1.3 | U | 0.70 | 3.2 |
| Vanadium | | 16 | ~~Q~~ | 0.10 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.03 g |
| Analysis Date: | 05/16/2013 1504 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 2000 | | 15 | 110 |
| Iron | | 18000 | | 4.1 | 86 |
| Sodium | | 110 | U | 63 | 540 |
| Zinc | | 48 | | 0.43 | 8.6 |

alt
7/8/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0304AA**

Lab Sample ID: 280-42039-7
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 05/06/2013 1545
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 05/15/2013 1109 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 7600 | | 1.5 | 50 |
| Antimony | | 0.60 | U | 0.38 | 2.0 |
| Arsenic | | 3.9 | | 0.66 | 2.5 |
| Barium | | 51 | | 0.075 | 2.0 |
| Beryllium | | 0.37 | J | 0.033 | 0.50 |
| Boron | | 3.0 | J | 0.97 | 9.9 |
| Cadmium | | 0.25 | J | 0.041 | 0.50 |
| Chromium | | 12 | | 0.058 | 3.5 |
| Cobalt | | 5.9 | | 0.099 | 0.99 |
| Copper | | 25 | | 0.22 | 5.0 |
| Lead | | 36 | | 0.27 | 0.89 |
| Magnesium | | 3100 | | 3.7 | 30 |
| Manganese | | 570 | | 0.099 | 4.5 |
| Molybdenum | | 0.50 | U | 0.26 | 2.5 |
| Nickel | | 13 | | 0.12 | 4.0 |
| Potassium | | 1100 | | 41 | 300 |
| Selenium | | 1.2 | U | 0.85 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.65 | 3.0 |
| Vanadium | | 16 | | 0.093 | 2.0 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 05/16/2013 1507 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 10000 | | 14 | 99 |
| Iron | | 14000 | | 3.8 | 79 |
| Sodium | | 62 | J | 59 | 500 |
| Zinc | | 54 | | 0.40 | 7.9 |

cwt
7/8/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0308AA**

Lab Sample ID: 280-42039-8
Client Matrix: Solid

% Moisture: 10.7

Date Sampled: 05/06/2013 1552
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 05/15/2013 1112 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 12000 | | 1.5 | 49 |
| Antimony | | 0.59 | U | 0.37 | 2.0 |
| Arsenic | | 4.1 | | 0.65 | 2.5 |
| Barium | | 35 | | 0.075 | 2.0 |
| Beryllium | | 0.48 | J | 0.032 | 0.49 |
| Boron | | 1.8 | J | 0.96 | 9.8 |
| Cadmium | | 0.20 | J | 0.040 | 0.49 |
| Chromium | | 15 | | 0.057 | 3.4 |
| Cobalt | | 6.9 | | 0.098 | 0.98 |
| Copper | | 29 | | 0.21 | 4.9 |
| Lead | | 6.9 | | 0.27 | 0.88 |
| Magnesium | | 4500 | | 3.6 | 29 |
| Manganese | | 900 | | 0.098 | 4.4 |
| Molybdenum | | 0.80 | J | 0.26 | 2.5 |
| Nickel | | 19 | | 0.12 | 3.9 |
| Potassium | | 1100 | | 40 | 290 |
| Selenium | | 1.2 | U | 0.84 | 2.9 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.64 | 2.9 |
| Vanadium | | 20 | | 0.092 | 2.0 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 05/16/2013 1509 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 8500 | | 14 | 98 |
| Iron | | 21000 | | 3.7 | 79 |
| Sodium | | 98 | U | 58 | 490 |
| Zinc | | 54 | | 0.39 | 7.9 |

9/18/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0312AA

Lab Sample ID: 280-42039-9
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 05/06/2013 1559
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.20 g |
| Analysis Date: | 05/15/2013 1114 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9000 | | 1.4 | 46 |
| Antimony | | 0.55 | U | 0.35 | 1.8 |
| Arsenic | | 3.9 | | 0.60 | 2.3 |
| Barium | | 38 | | 0.069 | 1.8 |
| Beryllium | | 0.39 | J | 0.030 | 0.46 |
| Boron | | 2.1 | J | 0.90 | 9.1 |
| Cadmium | | 0.12 | J | 0.037 | 0.46 |
| Chromium | | 12 | ~~Ø~~ | 0.053 | 3.2 |
| Cobalt | | 6.5 | | 0.091 | 0.91 |
| Copper | | 34 | ~~Ø~~ | 0.20 | 4.6 |
| Lead | | 6.1 | | 0.25 | 0.82 |
| Magnesium | | 4200 | | 3.4 | 27 |
| Manganese | | 850 | ~~Ø~~ | 0.091 | 4.1 |
| Molybdenum | | 0.60 | J | 0.24 | 2.3 |
| Nickel | | 15 | | 0.11 | 3.7 |
| Potassium | | 1100 | | 37 | 270 |
| Selenium | | 1.1 | U | 0.79 | 2.7 |
| Silver | | 0.18 | U | 0.15 | 1.4 |
| Thallium | | 1.1 | U | 0.59 | 2.7 |
| Vanadium | | 16 | ~~Ø~~ | 0.086 | 1.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.20 g |
| Analysis Date: | 05/16/2013 1512 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 9000 | | 13 | 91 |
| Iron | | 18000 | | 3.5 | 73 |
| Zinc | | 47 | | 0.36 | 7.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174937 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051713.asc |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.20 g |
| Analysis Date: | 05/17/2013 1301 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

CMK 7/8/13

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Sodium | | 460 | U | 270 | 2300 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AE**

Lab Sample ID: 280-42039-11EB

Client Matrix: Water

Date Sampled: 05/06/2013 1630

Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Prep Method: | 3010A | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1533 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Aluminum | 31 | U | 18 | 300 |
| Antimony | 8.0 | U | 3.1 | 20 |
| Arsenic | 12 | U | 4.4 | 25 |
| Barium | 0.82 | J | 0.58 | 10 |
| Beryllium | 0.50 | U | 0.47 | 1.5 |
| Cadmium | 0.80 | U | 0.45 | 5.0 |
| Calcium | 80 | U | 35 | 1000 |
| Chromium | 1.5 | U Ø | 0.66 | 15 |
| Cobalt | 2.0 | U | 1.2 | 15 |
| Copper | 3.5 | U Ø | 1.4 | 15 |
| Lead | 5.0 | U | 2.6 | 15 |
| Magnesium | 25 | U | 11 | 500 |
| Molybdenum | 7.0 | U | 3.1 | 30 |
| Nickel | 3.0 | U | 1.3 | 40 |
| Potassium | 250 | U | 240 | 3000 |
| Selenium | 12 | U | 4.9 | 22 |
| Silver | 2.0 | U | 0.93 | 15 |
| Thallium | 12 | U | 4.9 | 40 |
| Vanadium | 2.5 | U Ø | 1.1 | 15 |
| Zinc | 13 | U | 4.5 | 150 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Prep Method: | 3010A | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1459 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Boron | 7.0 | U | 4.4 | 100 |
| Manganese | 0.69 | J Ø | 0.25 | 10 |
| Sodium | 250 | U | 92 | 5000 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Prep Method: | 3010A | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1625 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Iron | 29 | J | 22 | 100 |

9/5/13

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** B255SCS0104AC

Lab Sample ID: 280-42039-10FD
Client Matrix: Solid

% Moisture: 9.0

Date Sampled: 05/06/2013 1442
Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 05/15/2013 1116 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9800 | | 1.6 | 52 |
| Antimony | | 0.62 | U | 0.39 | 2.1 |
| Arsenic | | 3.5 | | 0.68 | 2.6 |
| Barium | | 33 | J | 0.079 | 2.1 |
| Beryllium | | 0.39 | J | 0.034 | 0.52 |
| Boron | | 1.7 | J | 1.0 | 10 |
| Cadmium | | 0.17 | J | 0.042 | 0.52 |
| Chromium | | 11 | J | 0.060 | 3.6 |
| Cobalt | | 5.6 | J | 0.10 | 1.0 |
| Copper | | 21 | J | 0.22 | 5.2 |
| Lead | | 9.4 | J | 0.28 | 0.93 |
| Magnesium | | 3400 | | 3.8 | 31 |
| Manganese | | 540 | J | 0.10 | 4.7 |
| Molybdenum | | 0.52 | U | 0.27 | 2.6 |
| Nickel | | 14 | | 0.13 | 4.1 |
| Potassium | | 910 | | 42 | 310 |
| Selenium | | 1.2 | U | 0.89 | 3.1 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Thallium | | 1.2 | U | 0.67 | 3.1 |
| Vanadium | | 17 | J | 0.097 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 05/16/2013 1514 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 2000 | J | 15 | 100 |
| Iron | | 17000 | | 3.9 | 83 |
| Sodium | | 100 | U | 61 | 520 |
| Zinc | | 48 | | 0.41 | 8.3 |

7/8/13

**General Chemistry**

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1
Client Matrix: Solid

Date Sampled: 05/06/2013 1440
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.8 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0108AA**

Lab Sample ID: 280-42039-2
Client Matrix: Solid

Date Sampled: 05/06/2013 1455
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0112AA**

Lab Sample ID: 280-42039-3
Client Matrix: Solid

Date Sampled: 05/06/2013 1500
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 9.9 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 90 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0204AA**

Lab Sample ID: 280-42039-4
Client Matrix: Solid

Date Sampled: 05/06/2013 1515
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.4 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-175935 | | Analysis Date: 05/24/2013 1315 | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-175935 | | Analysis Date: 05/24/2013 1315 | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0208AA**

Lab Sample ID: 280-42039-5
Client Matrix: Solid

Date Sampled: 05/06/2013 1519
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0212AA**

Lab Sample ID: 280-42039-6
Client Matrix: Solid

Date Sampled: 05/06/2013 1525
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 9.5 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-42039-1

General Chemistry

**Client Sample ID:** **B255SCS0304AA**

Lab Sample ID: 280-42039-7
Client Matrix: Solid

Date Sampled: 05/06/2013 1545
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.4 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0308AA**

Lab Sample ID: 280-42039-8
Client Matrix: Solid

Date Sampled: 05/06/2013 1552
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 11 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-175935 | | Analysis Date: 05/24/2013 1315 | | | | DryWt Corrected: N |
| Percent Solids | 89 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-175935 | | Analysis Date: 05/24/2013 1315 | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0312AA**

Lab Sample ID: 280-42039-9
Client Matrix: Solid

Date Sampled: 05/06/2013 1559
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.8 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0104AC**

Lab Sample ID: 280-42039-10FD
Client Matrix: Solid

Date Sampled: 05/06/2013 1442
Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 9.0 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

# *FPM Remediations, Inc.*
# *Data Verification and Usability Report*
# *FORMER GRIFFISS AIR FORCE BASE*
# *Site Building 255*
# *Contract No. Contract No. FA8903-10-D-8595, Delivery Order No. 0014*

## *FPM Project No. 1005-11-01*

**TestAmerica Job # 280-45026-1**

| | |
|---|---|
| Laboratory: | TestAmerica Laboratories, Inc. |
| Sample Matrix: | Soil |
| Number of Samples: | 17 |
| Analytical Protocol: | DOD QSM Final Version 4.2, as per project-specific UFP QAPP |
| Data Reviewer: | Connie van Hoesel |
| Sample Date: | July 29, 2013 |

## LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

| Sample ID | Date | QC Samples | Date |
|---|---|---|---|
| B255SCS0704AA | 7/29/13 | B255SCS0704AC | 7/29/13 |
| B255SCS0708AA | 7/29/13 | | |
| B255SCS0712AA | 7/29/13 | | |
| B255SCS0804AA | 7/29/13 | | |
| B255SCS0808AA | 7/29/13 | | |
| B255SCS0812AA | 7/29/13 | | |
| B255SCS0904AA | 7/29/13 | | |
| B255SCS0908AA | 7/29/13 | | |
| B255SCS0912AA | 7/29/13 | | |
| B255SCS1004AA | 7/29/13 | | |
| B255SCS1008AA | 7/29/13 | | |
| B255SCS1012AA | 7/29/13 | | |
| B255SCS1104AA | 7/29/13 | | |
| B255SCS1108AA | 7/29/13 | | |
| B255SCS1112AA | 7/29/13 | | |
| B255SCS1116AA | 7/29/13 | | |

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.

## DELIVERABLES

The data deliverable report was per requirements of the DOD QSM, Final Version 4.2, as specified in the project-specific UFP QAPP. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

## ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the sample analyses were per methods as specified in the DOD QSM, Final Version 4.2, with project-specific modifications as listed in the project-specific UFP QAPP. The analytical methods employed included SW-846: Semivolatile Organic Compounds (SVOCs) by Method 8270C, and Metals by Method 6010C.

## VERIFICATION GUIDANCE

The analytical work was performed by Microbac Laboratories, Inc. in accordance with the DOD QSM, Final Version 4.2, as specified in the project-specific UFP QAPP. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the project-specific UFP QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the DOD QSM, Final Version 4.2, and the criteria as listed in the project-specific UFP QAPP.

## QA/QC CRITERIA

The following QA/QC criteria were reviewed for the SVOCs analyses, as applicable:

- Limits of Detection and Limits of Quantitation (LOD, LOQ)
- Holding times
- GC/MS tune performance
- Initial and Continuing calibration summaries
- Method blanks
- Trip blank (VOCs only)
- Field duplicate results
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between LOD and LOQ (J-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)

- Case narrative and deliverables compliance
- Tentatively identified compounds (TICs)

The following QA/QC criteria were reviewed for the metals analyses, as applicable:

- LODs and LOQs
- Holding times
- GC/MS tune performance
- Initial and Continuing calibration summaries
- Method blanks
- ICP interference check sample analysis
- Field duplicate results
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Laboratory control samples (LCS)
- ICP serial dilution analysis
- Results reported between LOD and LOQ (J-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with DOD QSM, Final Version 4.2 and project-specific UFP QAPP criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

***GENERAL NOTES:***

SAMPLE LABELING/CHAIN-OF-CUSTODY

No errors in the chain-of-custody were noted. There were no discrepancies noted between the sample labels and the chain-of-custody, or the cooler contents and the chain-of-custody.

MS/MSD

For all analyses, the lab performed matrix spike and matrix spike duplicate samples for an internal quality control sample. Since these samples were not requested by the client in the chain-of-custody, no action was taken for the MS/MSD criterion.

REPORTING LIMITS

In accordance with the UFP QAPP, some quality control criteria (field duplicate and blank evaluations), required comparison to the reporting limit (RL). For this project, the RL was assumed to be equal to the LOQ.

## SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

- According to the case narrative, the following sample was analyzed at initial dilution due to the nature of the sample matrix (viscosity of the extract):

| Sample | Dilution |
|---|---|
| B255SCS0904AA | 1:4 |

The dilution results only are reported and are used in data verification as representing original results. The case narrative describes that these samples were analyzed at dilution due to extract appearance.

## METALS (ICP)

- According to the case narrative, the following samples were analyzed at dilution:

| Sample | Dilution | Analytes |
|---|---|---|
| B255SCS0912AA | 1:5 | Aluminum, barium, beryllium, calcium, iron, manganese, potassium, sodium, strontium |
| B255SCS0708AA | 1:5 | Manganese |
| B255SCS0908AA | 1:5 | Manganese |
| B255SCS1112AA | 1:5 | Manganese |
| B255SCS1116AA | 1:5 | Manganese |

The dilution results only are reported these analytes and are used in data verification as presenting original results. The case narrative describes samples were analyzed at dilution to obtain results within the linear range.

- According to the case narrative, the ICSA solution for prep batch 280-186959 reported cadmium, chromium, copper, manganese, and strontium above the LOD. The laboratory contacted the manufacturer, and the source of these analytes is suspected to be trace impurities of the element in the solution, rather than an artifact of matrix interference. The laboratory applied "Q" flags for all associated results. Using professional judgment, the "Q" flags were removed and the unqualified results are deemed usable.

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above 5x the LOQ and the relative percent differences (RPDs) between the duplicate sample results exceed RPD control limits (30% for aqueous samples). If either the parent or the duplicate sample is less than 5x the LOQ, then the difference between the parent and duplicate sample must be less than 2x the LOQ. "J" flags for detects and "UJ" flags for non-detects are required per the QAPP for any exceedances.

  The following table summarizes the RPDs/total differences of field duplicate sample set B255SCS0704AA/AC:

| Sample ID, Normal | Sample ID, Field Duplicate | Analyte | Normal Result (mg/kg) | Field Dup Result (mg/kg) | LOQ | RPD or ±differ-ence | Flag Applied | Rationale |
|---|---|---|---|---|---|---|---|---|
| B255SCS0704AA | B255SCS0704AC | Arsenic | 2.4 J | 2.0 J | 2.7, 2.5 | 0.4 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Aluminum | 3700 | 3200 | 54, 50 | 14.5 | None | RPD < 30% |
| B255SCS0704AA | B255SCS0704AC | Barium | 12 | 10 | 2.1, 2.0 | 18.2 | None | RPD < 30% |
| B255SCS0704AA | B255SCS0704AC | Beryllium | 0.17 J | 0.14 J | 0.54, 0.50 | 0.03 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Boron | 1.4 J | 1.3 J | 11, 10 | 0.1 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Cadmium | 0.083 J | 0.052 J | 0.54, 0.50 | 0.031 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Calcium | 1900 | 2000 | 110, 100 | 5.1 | None | RPD < 30% |
| B255SCS0704AA | B255SCS0704AC | Chromium | 4.2 | 3.8 | 3.8, 3.5 | 0.4 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Cobalt | 3.2 | 2.6 | 1.1, 1.0 | 0.6 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Copper | 8.5 | 8.2 | 5.4, 5.0 | 0.3 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Iron | 7900 | 7000 | 86, 80 | 12.1 | None | RPD < 30% |
| B255SCS0704AA | B255SCS0704AC | Lead | 2.2 | 1.8 | 0.97, 0.90 | 0.4 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Magnesium | 1700 | 1500 | 32, 30 | 12.5 | None | RPD < 30% |
| B255SCS0704AA | B255SCS0704AC | Manganese | 270 | 240 | 4.8, 4.5 | 11.8 | None | RPD < 30% |
| B255SCS0704AA | B255SCS0704AC | Nickel | 6.4 | 5.7 | 4.3, 4.0 | 0.7 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Potassium | 540 | 490 | 320, 300 | 50 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Strontium | 5.6 | 4.7 | 1.6, 1.5 | 0.9 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Vanadium | 6.7 | 5.8 | 2.1, 2.0 | 0.9 | None | Difference < 2x LOQ |
| B255SCS0704AA | B255SCS0704AC | Zinc | 15 | 14 | 8.6, 8.0 | 1.0 | None | Difference < 2x LOQ |

**Corrective Action:** There were no RPD or difference exceedances for duplicate sample set B255SCS0704AA/AC.

- According to the case narrative, the low level calibration check standard (280-187483/81) associated with batch 280-186959 recovered outside the ±20% control criteria (at +37%). Using professional judgment, since associated detections were greater than 10x the RL, the method blank was non-detect for aluminum, and the LCS recovered within the established control limits, no flagging is deemed required. The laboratory applied "Q" flags for all

associated results. Using professional judgment, the “Q” flags were removed and the unqualified results are deemed usable.

## DATA USABILITY RESULTS

### SVOCs

Based on the evaluation of all information in the analytical data groups, the results for SVOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

### Metals (ICP)

Based on the evaluation of all information in the analytical data groups, the results for metals are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

**DATA USABILITY SUMMARY**

All data in Job # 280-45026-1 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel Date: 11/5/13

***ATTACHMENTS***

- Chains of Custody
- Lab's Case Narratives
- Qualified final data verification results on annotated Lab Sheet 2s

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 280-45026-1

Job Description: Griffiss AFB DP013 Bldg 255

For:
FPM Remediations Inc
584 Phoenix Drive
Rome, NY 13441

Attention: Daniel Baldyga

M. Elaine Walker

Approved for release.
Elaine M Walker
Project Manager I
8/26/2013 2:08 PM

Elaine M Walker, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0156
elaine.walker@testamericainc.com
08/26/2013

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y  Analysis Batch Number: 179033

Lab Sample ID: ICIS 280-179033/2  Client Sample ID:

Date Analyzed: 06/17/13 07:29  Lab File ID: Y5008.D  GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.58 | Split Peak | hoffmanm | 06/17/13 11:07 |
| Indeno[1,2,3-cd]pyrene | 18.53 | Split Peak | hoffmanm | 06/17/13 11:07 |

Lab Sample ID: IC 280-179033/3  Client Sample ID:

Date Analyzed: 06/17/13 07:55  Lab File ID: Y5009.D  GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzoic acid | 4.95 | Wrong peak | hoffmanm | 06/17/13 11:45 |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:45 |

Lab Sample ID: IC 280-179033/4  Client Sample ID:

Date Analyzed: 06/17/13 08:22  Lab File ID: Y5010.D  GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:46 |

Lab Sample ID: IC 280-179033/5  Client Sample ID:

Date Analyzed: 06/17/13 08:48  Lab File ID: Y5011.D  GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.51 | Shouldering | hoffmanm | 06/17/13 11:47 |

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 179033

Lab Sample ID: IC 280-179033/7 Client Sample ID:

Date Analyzed: 06/17/13 09:40 Lab File ID: Y5013.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:49 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Split Peak | hoffmanm | 06/17/13 11:49 |

Lab Sample ID: IC 280-179033/8 Client Sample ID:

Date Analyzed: 06/17/13 10:06 Lab File ID: Y5014.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:51 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Shouldering | hoffmanm | 06/17/13 11:51 |

Lab Sample ID: IC 280-179033/9 Client Sample ID:

Date Analyzed: 06/17/13 10:33 Lab File ID: Y5015.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.60 | Split Peak | hoffmanm | 06/17/13 11:53 |
| Indeno[1,2,3-cd]pyrene | 18.56 | Shouldering | hoffmanm | 06/17/13 11:53 |

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y  Analysis Batch Number: 185961

Lab Sample ID: IC 280-185961/2  Client Sample ID:

Date Analyzed: 08/06/13 08:19  Lab File ID: Y5634.D  GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:41 |

Lab Sample ID: IC 280-185961/3  Client Sample ID:

Date Analyzed: 08/06/13 08:45  Lab File ID: Y5635.D  GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:42 |

Lab Sample ID: IC 280-185961/4  Client Sample ID:

Date Analyzed: 08/06/13 09:12  Lab File ID: Y5636.D  GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:43 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 187134

Lab Sample ID: CCV 280-187134/4 Client Sample ID:

Date Analyzed: 08/14/13 10:50 Lab File ID: Y5754.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/14/13 11:32 |

Lab Sample ID: LCS 280-186667/2-A Client Sample ID:

Date Analyzed: 08/14/13 14:22 Lab File ID: Y5762.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.54 | Split Peak | hoffmanm | 08/15/13 09:36 |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/15/13 09:36 |

Lab Sample ID: 280-45026-9 Client Sample ID: B255SCS0908AA

Date Analyzed: 08/14/13 20:06 Lab File ID: Y5775.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.94 | Shouldering | hoffmanm | 08/15/13 09:52 |
| Benzo[k]fluoranthene | 14.03 | Shouldering | hoffmanm | 08/15/13 09:52 |

Lab Sample ID: 280-45026-11 Client Sample ID: B255SCS1004AA

Date Analyzed: 08/14/13 20:59 Lab File ID: Y5777.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[a]pyrene | 14.88 | Split Peak | hoffmanm | 08/15/13 09:53 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 187134

Lab Sample ID: 280-45026-12 Client Sample ID: B255SCS1008AA

Date Analyzed: 08/14/13 21:25 Lab File ID: Y5778.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.95 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Benzo[k]fluoranthene | 14.00 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Dibenz(a,h)anthracene | 18.44 | Split Peak | hoffmanm | 08/15/13 09:55 |

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

GDM 8/14/13

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y  Analysis Batch Number: 179033

Lab Sample ID: ICIS 280-179033/2  Client Sample ID:

Date Analyzed: 06/17/13 07:29  Lab File ID: Y5008.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.58 | Split Peak | hoffmanm | 06/17/13 11:07 |
| Indeno[1,2,3-cd]pyrene | 18.53 | Split Peak | hoffmanm | 06/17/13 11:07 |

Lab Sample ID: IC 280-179033/3  Client Sample ID:

Date Analyzed: 06/17/13 07:55  Lab File ID: Y5009.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzoic acid | 4.95 | Wrong peak | hoffmanm | 06/17/13 11:45 |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:45 |

Lab Sample ID: IC 280-179033/4  Client Sample ID:

Date Analyzed: 06/17/13 08:22  Lab File ID: Y5010.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:46 |

Lab Sample ID: IC 280-179033/5  Client Sample ID:

Date Analyzed: 06/17/13 08:48  Lab File ID: Y5011.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.51 | Shouldering | hoffmanm | 06/17/13 11:47 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

gpm 8/16/13

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 179033

Lab Sample ID: IC 280-179033/7 Client Sample ID:

Date Analyzed: 06/17/13 09:40 Lab File ID: Y5013.D GC Column: Vf-5MS ID: 0.25 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:49 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Split Peak | hoffmanm | 06/17/13 11:49 |

Lab Sample ID: IC 280-179033/8 Client Sample ID:

Date Analyzed: 06/17/13 10:06 Lab File ID: Y5014.D GC Column: Vf-5MS ID: 0.25 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:51 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Shouldering | hoffmanm | 06/17/13 11:51 |

Lab Sample ID: IC 280-179033/9 Client Sample ID:

Date Analyzed: 06/17/13 10:33 Lab File ID: Y5015.D GC Column: Vf-5MS ID: 0.25 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.60 | Split Peak | hoffmanm | 06/17/13 11:53 |
| Indeno[1,2,3-cd]pyrene | 18.56 | Shouldering | hoffmanm | 06/17/13 11:53 |

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

3270
8/16/13

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 185961

Lab Sample ID: IC 280-185961/2 Client Sample ID:

Date Analyzed: 08/06/13 08:19 Lab File ID: Y5634.D GC Column: Vf-5MS ID: 0.25 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:41 |

Lab Sample ID: IC 280-185961/3 Client Sample ID:

Date Analyzed: 08/06/13 08:45 Lab File ID: Y5635.D GC Column: Vf-5MS ID: 0.25 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:42 |

Lab Sample ID: IC 280-185961/4 Client Sample ID:

Date Analyzed: 08/06/13 09:12 Lab File ID: Y5636.D GC Column: Vf-5MS ID: 0.25 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:43 |

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

DBD 8/16/13

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y  Analysis Batch Number: 187134

Lab Sample ID: CCV 280-187134/4  Client Sample ID:

Date Analyzed: 08/14/13 10:50  Lab File ID: Y5754.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/14/13 11:32 |

Lab Sample ID: LCS 280-186667/2-A  Client Sample ID:

Date Analyzed: 08/14/13 14:22  Lab File ID: Y5762.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.54 | Split Peak | hoffmanm | 08/15/13 09:36 |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/15/13 09:36 |

Lab Sample ID: 280-45026-9  Client Sample ID: B255SCS0908AA

Date Analyzed: 08/14/13 20:06  Lab File ID: Y5775.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.94 | Shouldering | hoffmanm | 08/15/13 09:52 |
| Benzo[k]fluoranthene | 14.03 | Shouldering | hoffmanm | 08/15/13 09:52 |

Lab Sample ID: 280-45026-11  Client Sample ID: B255SCS1004AA

Date Analyzed: 08/14/13 20:59  Lab File ID: Y5777.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[a]pyrene | 14.88 | Split Peak | hoffmanm | 08/15/13 09:53 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

DAD 8/16/13

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 187134

Lab Sample ID: 280-45026-12 Client Sample ID: B255SCS1008AA

Date Analyzed: 08/14/13 21:25 Lab File ID: Y5778.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.95 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Benzo[k]fluoranthene | 14.00 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Dibenz(a,h)anthracene | 18.44 | Split Peak | hoffmanm | 08/15/13 09:55 |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-2** | **B255SCS0704AC** | | | | | |
| Aluminum | | 3200 | | 50 | mg/Kg | 6010C |
| Arsenic | | 2.0 | J | 2.5 | mg/Kg | 6010C |
| Barium | | 10 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.14 | J | 0.50 | mg/Kg | 6010C |
| Boron | | 1.3 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.052 | J Q | 0.50 | mg/Kg | 6010C |
| Calcium | | 2000 | | 100 | mg/Kg | 6010C |
| Chromium | | 3.8 | Q | 3.5 | mg/Kg | 6010C |
| Cobalt | | 2.6 | | 1.0 | mg/Kg | 6010C |
| Copper | | 8.2 | Q | 5.0 | mg/Kg | 6010C |
| Iron | | 7000 | | 80 | mg/Kg | 6010C |
| Lead | | 1.8 | | 0.90 | mg/Kg | 6010C |
| Magnesium | | 1500 | | 30 | mg/Kg | 6010C |
| Manganese | | 240 | Q | 4.5 | mg/Kg | 6010C |
| Nickel | | 5.7 | | 4.0 | mg/Kg | 6010C |
| Potassium | | 490 | | 300 | mg/Kg | 6010C |
| Strontium | | 4.7 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 5.8 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 14 | | 8.0 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-3** | **B255SCS0708AA** | | | | | |
| Aluminum | | 7800 | | 55 | mg/Kg | 6010C |
| Arsenic | | 5.3 | | 2.8 | mg/Kg | 6010C |
| Barium | | 34 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.44 | J | 0.55 | mg/Kg | 6010C |
| Boron | | 1.6 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.17 | J Q | 0.55 | mg/Kg | 6010C |
| Calcium | | 2300 | | 110 | mg/Kg | 6010C |
| Chromium | | 10 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 5.1 | | 1.1 | mg/Kg | 6010C |
| Copper | | 36 | Q | 5.5 | mg/Kg | 6010C |
| Iron | | 19000 | | 89 | mg/Kg | 6010C |
| Lead | | 5.5 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 2700 | | 33 | mg/Kg | 6010C |
| Manganese | | 1500 | Q D | 25 | mg/Kg | 6010C |
| Molybdenum | | 1.0 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 13 | | 4.4 | mg/Kg | 6010C |
| Potassium | | 660 | | 330 | mg/Kg | 6010C |
| Strontium | | 9.4 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 14 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 34 | | 8.9 | mg/Kg | 6010C |
| Percent Moisture | | 14 | | 0.10 | % | Moisture |
| Percent Solids | | 86 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-4** | **B255SCS0712AA** | | | | | |
| Aluminum | | 6100 | | 51 | mg/Kg | 6010C |
| Arsenic | | 4.1 | | 2.5 | mg/Kg | 6010C |
| Barium | | 24 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.37 | J | 0.51 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.14 | J Q | 0.51 | mg/Kg | 6010C |
| Calcium | | 2900 | | 100 | mg/Kg | 6010C |
| Chromium | | 8.3 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 4.7 | | 1.0 | mg/Kg | 6010C |
| Copper | | 23 | Q | 5.1 | mg/Kg | 6010C |
| Iron | | 15000 | | 81 | mg/Kg | 6010C |
| Lead | | 4.7 | | 0.91 | mg/Kg | 6010C |
| Magnesium | | 2600 | | 30 | mg/Kg | 6010C |
| Manganese | | 670 | Q | 4.6 | mg/Kg | 6010C |
| Molybdenum | | 0.27 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 9.9 | | 4.1 | mg/Kg | 6010C |
| Potassium | | 710 | | 300 | mg/Kg | 6010C |
| Strontium | | 10 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 16 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 40 | | 8.1 | mg/Kg | 6010C |
| Percent Moisture | | 12 | | 0.10 | % | Moisture |
| Percent Solids | | 88 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-5** | **B255SCS0804AA** | | | | | |
| Aluminum | | 5700 | | 52 | mg/Kg | 6010C |
| Arsenic | | 2.7 | | 2.6 | mg/Kg | 6010C |
| Barium | | 23 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.26 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.14 | J Q | 0.52 | mg/Kg | 6010C |
| Calcium | | 2700 | | 100 | mg/Kg | 6010C |
| Chromium | | 7.0 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 4.1 | | 1.0 | mg/Kg | 6010C |
| Copper | | 13 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 11000 | | 83 | mg/Kg | 6010C |
| Lead | | 14 | | 0.94 | mg/Kg | 6010C |
| Magnesium | | 2200 | | 31 | mg/Kg | 6010C |
| Manganese | | 380 | Q | 4.7 | mg/Kg | 6010C |
| Nickel | | 9.1 | | 4.2 | mg/Kg | 6010C |
| Potassium | | 720 | | 310 | mg/Kg | 6010C |
| Strontium | | 6.3 | Q | 1.6 | mg/Kg | 6010C |
| Vanadium | | 12 | | 2.1 | mg/Kg | 6010C |
| Zinc | | 33 | | 8.3 | mg/Kg | 6010C |
| Percent Moisture | | 19 | | 0.10 | % | Moisture |
| Percent Solids | | 81 | | 0.10 | % | Moisture |
| **280-45026-6** | **B255SCS0808AA** | | | | | |
| Aluminum | | 3300 | | 55 | mg/Kg | 6010C |
| Arsenic | | 1.9 | J | 2.8 | mg/Kg | 6010C |
| Barium | | 11 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.15 | J | 0.55 | mg/Kg | 6010C |
| Boron | | 1.3 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.069 | J Q | 0.55 | mg/Kg | 6010C |
| Calcium | | 810 | | 110 | mg/Kg | 6010C |
| Chromium | | 3.9 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 2.7 | | 1.1 | mg/Kg | 6010C |
| Copper | | 8.0 | Q | 5.5 | mg/Kg | 6010C |
| Iron | | 7200 | | 88 | mg/Kg | 6010C |
| Lead | | 1.5 | | 0.99 | mg/Kg | 6010C |
| Magnesium | | 1400 | | 33 | mg/Kg | 6010C |
| Manganese | | 240 | Q | 5.0 | mg/Kg | 6010C |
| Nickel | | 5.8 | | 4.4 | mg/Kg | 6010C |
| Potassium | | 510 | | 330 | mg/Kg | 6010C |
| Strontium | | 2.9 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 5.9 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 14 | | 8.8 | mg/Kg | 6010C |
| Percent Moisture | | 10 | | 0.10 | % | Moisture |
| Percent Solids | | 90 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-7** | **B255SCS0812AA** | | | | | |
| Aluminum | | 5900 | | 49 | mg/Kg | 6010C |
| Arsenic | | 5.1 | | 2.5 | mg/Kg | 6010C |
| Barium | | 29 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.30 | J | 0.49 | mg/Kg | 6010C |
| Boron | | 2.0 | J | 9.9 | mg/Kg | 6010C |
| Cadmium | | 1.0 | Q | 0.49 | mg/Kg | 6010C |
| Calcium | | 2000 | | 99 | mg/Kg | 6010C |
| Chromium | | 27 | Q | 3.5 | mg/Kg | 6010C |
| Cobalt | | 5.4 | | 0.99 | mg/Kg | 6010C |
| Copper | | 41 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 14000 | | 79 | mg/Kg | 6010C |
| Lead | | 140 | | 0.89 | mg/Kg | 6010C |
| Magnesium | | 2500 | | 30 | mg/Kg | 6010C |
| Manganese | | 370 | Q | 4.4 | mg/Kg | 6010C |
| Molybdenum | | 0.52 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 11 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 720 | | 300 | mg/Kg | 6010C |
| Strontium | | 4.1 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 11 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 160 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 11 | | 0.10 | % | Moisture |
| Percent Solids | | 89 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-8** | **B255SCS0904AA** | | | | | |
| Acenaphthylene | | 110 | J | 1500 | ug/Kg | 8270D/DoD |
| Anthracene | | 160 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 530 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 430 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 680 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 250 | J | 1500 | ug/Kg | 8270D/DoD |
| Chrysene | | 630 | J | 1500 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 400 | J | 1500 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 1000 | J | 1500 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 260 | J | 1500 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 810 | J | 1500 | ug/Kg | 8270D/DoD |
| Pyrene | | 1200 | J | 1900 | ug/Kg | 8270D/DoD |
| Aluminum | | 7800 | | 55 | mg/Kg | 6010C |
| Arsenic | | 5.2 | | 2.8 | mg/Kg | 6010C |
| Barium | | 35 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.35 | J | 0.55 | mg/Kg | 6010C |
| Boron | | 2.2 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.76 | Q | 0.55 | mg/Kg | 6010C |
| Calcium | | 18000 | | 110 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 6.0 | | 1.1 | mg/Kg | 6010C |
| Copper | | 33 | Q | 5.5 | mg/Kg | 6010C |
| Iron | | 18000 | | 88 | mg/Kg | 6010C |
| Lead | | 39 | | 0.99 | mg/Kg | 6010C |
| Magnesium | | 3500 | | 33 | mg/Kg | 6010C |
| Manganese | | 860 | Q | 5.0 | mg/Kg | 6010C |
| Molybdenum | | 0.32 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 13 | | 4.4 | mg/Kg | 6010C |
| Potassium | | 810 | | 330 | mg/Kg | 6010C |
| Strontium | | 41 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 19 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 57 | | 8.8 | mg/Kg | 6010C |
| Percent Moisture | | 16 | | 0.10 | % | Moisture |
| Percent Solids | | 84 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-9** | **B255SCS0908AA** | | | | | |
| Acenaphthylene | | 31 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 51 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 62 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 89 | J M | 370 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 55 | J | 370 | ug/Kg | 8270D/DoD |
| Chrysene | | 68 | J | 370 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 220 | J | 370 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 78 | J | 370 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 53 | J | 370 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 36 | J | 370 | ug/Kg | 8270D/DoD |
| Pyrene | | 94 | J | 450 | ug/Kg | 8270D/DoD |
| Aluminum | | 12000 | Q | 58 | mg/Kg | 6010C |
| Arsenic | | 4.6 | | 2.9 | mg/Kg | 6010C |
| Barium | | 68 | | 2.3 | mg/Kg | 6010C |
| Beryllium | | 0.48 | J | 0.58 | mg/Kg | 6010C |
| Boron | | 2.1 | J | 12 | mg/Kg | 6010C |
| Cadmium | | 0.52 | J Q | 0.58 | mg/Kg | 6010C |
| Calcium | | 3500 | | 120 | mg/Kg | 6010C |
| Chromium | | 13 | Q | 4.1 | mg/Kg | 6010C |
| Cobalt | | 6.7 | | 1.2 | mg/Kg | 6010C |
| Copper | | 23 | Q | 5.8 | mg/Kg | 6010C |
| Iron | | 22000 | | 93 | mg/Kg | 6010C |
| Lead | | 16 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 2800 | | 35 | mg/Kg | 6010C |
| Manganese | | 1400 | Q D | 26 | mg/Kg | 6010C |
| Molybdenum | | 0.68 | J | 2.9 | mg/Kg | 6010C |
| Nickel | | 14 | | 4.6 | mg/Kg | 6010C |
| Potassium | | 780 | | 350 | mg/Kg | 6010C |
| Sodium | | 560 | J | 580 | mg/Kg | 6010C |
| Strontium | | 40 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 24 | | 2.3 | mg/Kg | 6010C |
| Zinc | | 68 | | 9.3 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-10** | **B255SCS0912AA** | | | | | |
| Dimethyl phthalate | | 140 | J | 350 | ug/Kg | 8270D/DoD |
| Aluminum | | 10000 | Q D | 250 | mg/Kg | 6010C |
| Arsenic | | 4.5 | | 2.5 | mg/Kg | 6010C |
| Barium | | 42 | D | 9.8 | mg/Kg | 6010C |
| Beryllium | | 0.42 | J D | 2.5 | mg/Kg | 6010C |
| Boron | | 1.5 | J | 9.8 | mg/Kg | 6010C |
| Cadmium | | 0.19 | J Q | 0.49 | mg/Kg | 6010C |
| Calcium | | 5200 | D | 490 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.4 | mg/Kg | 6010C |
| Cobalt | | 5.3 | | 0.98 | mg/Kg | 6010C |
| Copper | | 47 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 25000 | D | 390 | mg/Kg | 6010C |
| Lead | | 5.5 | | 0.89 | mg/Kg | 6010C |
| Magnesium | | 3200 | | 30 | mg/Kg | 6010C |
| Manganese | | 1300 | Q D | 22 | mg/Kg | 6010C |
| Molybdenum | | 0.34 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 13 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 860 | J D | 1500 | mg/Kg | 6010C |
| Strontium | | 10 | Q D | 7.4 | mg/Kg | 6010C |
| Vanadium | | 17 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 45 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 7.6 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |
| **280-45026-11** | **B255SCS1004AA** | | | | | |
| Dimethyl phthalate | | 350 | J | 370 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 21 | J | 370 | ug/Kg | 8270D/DoD |
| Pyrene | | 44 | J | 450 | ug/Kg | 8270D/DoD |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-12** | **B255SCS1008AA** | | | | | |
| Acenaphthene | | 11 | J | 350 | ug/Kg | 8270D/DoD |
| Acenaphthylene | | 160 | J | 350 | ug/Kg | 8270D/DoD |
| Anthracene | | 100 | J | 350 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 370 | | 350 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 420 | | 350 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 600 | M | 350 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 330 | J | 350 | ug/Kg | 8270D/DoD |
| Benzo[k]fluoranthene | | 220 | J M | 350 | ug/Kg | 8270D/DoD |
| Bis(2-ethylhexyl) phthalate | | 52 | J | 350 | ug/Kg | 8270D/DoD |
| Chrysene | | 540 | | 350 | ug/Kg | 8270D/DoD |
| Dibenz(a,h)anthracene | | 58 | J M | 350 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 390 | | 350 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 690 | | 350 | ug/Kg | 8270D/DoD |
| Fluorene | | 30 | J | 350 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 330 | J | 350 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 330 | J | 350 | ug/Kg | 8270D/DoD |
| Pyrene | | 900 | | 420 | ug/Kg | 8270D/DoD |
| Percent Moisture | | 12 | | 0.10 | % | Moisture |
| Percent Solids | | 88 | | 0.10 | % | Moisture |
| **280-45026-13** | **B255SCS1012AA** | | | | | |
| Acenaphthylene | | 21 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 38 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 46 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 75 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 39 | J | 370 | ug/Kg | 8270D/DoD |
| Chrysene | | 52 | J | 370 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 190 | J | 370 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 65 | J | 370 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 30 | J | 370 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 29 | J | 370 | ug/Kg | 8270D/DoD |
| Pyrene | | 85 | J | 440 | ug/Kg | 8270D/DoD |
| Percent Moisture | | 13 | | 0.10 | % | Moisture |
| Percent Solids | | 87 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-14** | **B255SCS1104AA** | | | | | |
| Aluminum | | 6900 | Q | 46 | mg/Kg | 6010C |
| Arsenic | | 3.5 | | 2.3 | mg/Kg | 6010C |
| Barium | | 23 | | 1.8 | mg/Kg | 6010C |
| Beryllium | | 0.34 | J | 0.46 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 9.1 | mg/Kg | 6010C |
| Cadmium | | 0.22 | J Q | 0.46 | mg/Kg | 6010C |
| Calcium | | 1800 | | 91 | mg/Kg | 6010C |
| Chromium | | 9.5 | Q | 3.2 | mg/Kg | 6010C |
| Cobalt | | 5.3 | | 0.91 | mg/Kg | 6010C |
| Copper | | 29 | Q | 4.6 | mg/Kg | 6010C |
| Iron | | 16000 | | 73 | mg/Kg | 6010C |
| Lead | | 8.7 | | 0.82 | mg/Kg | 6010C |
| Magnesium | | 2800 | | 27 | mg/Kg | 6010C |
| Manganese | | 510 | Q | 4.1 | mg/Kg | 6010C |
| Molybdenum | | 0.40 | J | 2.3 | mg/Kg | 6010C |
| Nickel | | 13 | | 3.7 | mg/Kg | 6010C |
| Potassium | | 830 | | 270 | mg/Kg | 6010C |
| Sodium | | 70 | J | 460 | mg/Kg | 6010C |
| Strontium | | 5.6 | Q | 1.4 | mg/Kg | 6010C |
| Vanadium | | 14 | | 1.8 | mg/Kg | 6010C |
| Zinc | | 46 | | 7.3 | mg/Kg | 6010C |
| Percent Moisture | | 8.0 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-15** | **B255SCS1108AA** | | | | | |
| Aluminum | | 9100 | Q | 54 | mg/Kg | 6010C |
| Arsenic | | 5.4 | | 2.7 | mg/Kg | 6010C |
| Barium | | 47 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.47 | J | 0.54 | mg/Kg | 6010C |
| Boron | | 2.9 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.44 | J Q | 0.54 | mg/Kg | 6010C |
| Calcium | | 8400 | | 110 | mg/Kg | 6010C |
| Chromium | | 17 | Q | 3.8 | mg/Kg | 6010C |
| Cobalt | | 7.6 | | 1.1 | mg/Kg | 6010C |
| Copper | | 63 | Q | 5.4 | mg/Kg | 6010C |
| Iron | | 20000 | | 87 | mg/Kg | 6010C |
| Lead | | 18 | | 0.98 | mg/Kg | 6010C |
| Magnesium | | 4000 | | 33 | mg/Kg | 6010C |
| Manganese | | 620 | Q | 4.9 | mg/Kg | 6010C |
| Molybdenum | | 0.91 | J | 2.7 | mg/Kg | 6010C |
| Nickel | | 18 | | 4.3 | mg/Kg | 6010C |
| Potassium | | 1100 | | 330 | mg/Kg | 6010C |
| Strontium | | 32 | Q | 1.6 | mg/Kg | 6010C |
| Vanadium | | 16 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 67 | | 8.7 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-16** | **B255SCS1112AA** | | | | | |
| Aluminum | | 8700 | Q | 56 | mg/Kg | 6010C |
| Arsenic | | 5.3 | | 2.8 | mg/Kg | 6010C |
| Barium | | 43 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.38 | J | 0.56 | mg/Kg | 6010C |
| Boron | | 2.1 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.20 | J Q | 0.56 | mg/Kg | 6010C |
| Calcium | | 2500 | | 110 | mg/Kg | 6010C |
| Chromium | | 14 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 7.5 | | 1.1 | mg/Kg | 6010C |
| Copper | | 62 | Q | 5.6 | mg/Kg | 6010C |
| Iron | | 22000 | | 90 | mg/Kg | 6010C |
| Lead | | 5.8 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 3900 | | 34 | mg/Kg | 6010C |
| Manganese | | 1500 | Q D | 25 | mg/Kg | 6010C |
| Molybdenum | | 0.60 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 15 | | 4.5 | mg/Kg | 6010C |
| Potassium | | 930 | | 340 | mg/Kg | 6010C |
| Strontium | | 7.6 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 16 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 86 | | 9.0 | mg/Kg | 6010C |
| Percent Moisture | | 12 | | 0.10 | % | Moisture |
| Percent Solids | | 88 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-17** | **B255SCS1116AA** | | | | | |
| Aluminum | | 8300 | Q | 49 | mg/Kg | 6010C |
| Arsenic | | 4.8 | | 2.4 | mg/Kg | 6010C |
| Barium | | 39 | | 1.9 | mg/Kg | 6010C |
| Beryllium | | 0.36 | J | 0.49 | mg/Kg | 6010C |
| Boron | | 1.9 | J | 9.7 | mg/Kg | 6010C |
| Cadmium | | 0.21 | J Q | 0.49 | mg/Kg | 6010C |
| Calcium | | 6500 | | 97 | mg/Kg | 6010C |
| Chromium | | 24 | Q | 3.4 | mg/Kg | 6010C |
| Cobalt | | 6.7 | | 0.97 | mg/Kg | 6010C |
| Copper | | 35 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 20000 | | 78 | mg/Kg | 6010C |
| Lead | | 7.1 | | 0.88 | mg/Kg | 6010C |
| Magnesium | | 4000 | | 29 | mg/Kg | 6010C |
| Manganese | | 1300 | Q D | 22 | mg/Kg | 6010C |
| Molybdenum | | 0.76 | J | 2.4 | mg/Kg | 6010C |
| Nickel | | 15 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 880 | | 290 | mg/Kg | 6010C |
| Strontium | | 15 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 16 | | 1.9 | mg/Kg | 6010C |
| Zinc | | 50 | | 7.8 | mg/Kg | 6010C |
| Percent Moisture | | 11 | | 0.10 | % | Moisture |
| Percent Solids | | 89 | | 0.10 | % | Moisture |

# METHOD SUMMARY

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Semivolatile Organic Compounds (GC/MS) | TAL DEN | SW846 8270D/DoD | |
| Ultrasonic Extraction | TAL DEN | | SW846 3550C |
| Metals (ICP) | TAL DEN | SW846 6010C | |
| Preparation, Metals | TAL DEN | | SW846 3050B |
| Percent Moisture | TAL DEN | EPA Moisture | |

**Lab References:**

TAL DEN = TestAmerica Denver

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Client: FPM Remediations Inc

Job Number: 280-45026-1

General Chemistry

**Client Sample ID:** **B255SCS0704AC**

Lab Sample ID: 280-45026-2
Client Matrix: Solid

Date Sampled: 07/29/2013 1550
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0708AA**

Lab Sample ID: 280-45026-3
Client Matrix: Solid

Date Sampled: 07/29/2013 1554
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 14 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 86 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-45026-1

General Chemistry

**Client Sample ID:** **B255SCS0712AA**

Lab Sample ID: 280-45026-4
Client Matrix: Solid

Date Sampled: 07/29/2013 1600
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 88 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-45026-1

General Chemistry

**Client Sample ID:** **B255SCS0804AA**

Lab Sample ID: 280-45026-5
Client Matrix: Solid

Date Sampled: 07/29/2013 1530
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 19 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 81 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0808AA**

Lab Sample ID: 280-45026-6
Client Matrix: Solid

Date Sampled: 07/29/2013 1535
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 10 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-187361 | Analysis Date: 08/15/2013 1122 | | | | | | DryWt Corrected: N |
| Percent Solids | 90 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-187361 | Analysis Date: 08/15/2013 1122 | | | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**General Chemistry**

**Client Sample ID:** **B255SCS0812AA**

Lab Sample ID: 280-45026-7

Client Matrix: Solid

Date Sampled: 07/29/2013 1540

Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 11 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 89 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS0904AA**

Lab Sample ID: 280-45026-8
Client Matrix: Solid

Date Sampled: 07/29/2013 1450
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 16 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 84 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0908AA**

Lab Sample ID: 280-45026-9
Client Matrix: Solid

Date Sampled: 07/29/2013 1500
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-186980 | | Analysis Date: 08/13/2013 1103 | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-186980 | | Analysis Date: 08/13/2013 1103 | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-45026-1

General Chemistry

**Client Sample ID:** **B255SCS0912AA**

Lab Sample ID: 280-45026-10
Client Matrix: Solid

Date Sampled: 07/29/2013 1505
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 7.6 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-186980 | | Analysis Date: 08/13/2013 1103 | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-186980 | | Analysis Date: 08/13/2013 1103 | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1004AA**

Lab Sample ID: 280-45026-11

Client Matrix: Solid

Date Sampled: 07/29/2013 1510

Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS1008AA**

Lab Sample ID: 280-45026-12
Client Matrix: Solid

Date Sampled: 07/29/2013 1515
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 88 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1012AA**

Lab Sample ID: 280-45026-13
Client Matrix: Solid

Date Sampled: 07/29/2013 1520
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 13 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 87 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS1104AA**

Lab Sample ID: 280-45026-14
Client Matrix: Solid

Date Sampled: 07/29/2013 1345
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.0 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1108AA**

Lab Sample ID: 280-45026-15
Client Matrix: Solid

Date Sampled: 07/29/2013 1347
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS1112AA**

Lab Sample ID: 280-45026-16
Client Matrix: Solid

Date Sampled: 07/29/2013 1359
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-186980 | | Analysis Date: 08/13/2013 1103 | | | | DryWt Corrected: N |
| Percent Solids | 88 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| | Analysis Batch: 280-186980 | | Analysis Date: 08/13/2013 1103 | | | | DryWt Corrected: N |

General Chemistry

**Client Sample ID:** **B255SCS1116AA**

Lab Sample ID: 280-45026-17
Client Matrix: Solid

Date Sampled: 07/29/2013 1430
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 11 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 89 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0704AA**

Lab Sample ID: 280-45026-1
Client Matrix: Solid

Date Sampled: 07/29/2013 1550
Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS1116AA

Lab Sample ID: 280-45026-17
Client Matrix: Solid

% Moisture: 11.4

Date Sampled: 07/29/2013 1430
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 0150 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.58 | U | 0.37 | 1.9 |
| Arsenic | | 4.8 | | 0.64 | 2.4 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 1857 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 8300 | Ø | 1.5 | 49 |
| Barium | | 39 | | 0.074 | 1.9 |
| Beryllium | | 0.36 | J | 0.032 | 0.49 |
| Boron | | 1.9 | J | 0.95 | 9.7 |
| Cadmium | | 0.21 | J Ø | 0.040 | 0.49 |
| Calcium | | 6500 | | 14 | 97 |
| Chromium | | 24 | Ø | 0.056 | 3.4 |
| Cobalt | | 6.7 | | 0.097 | 0.97 |
| Copper | | 35 | Ø | 0.21 | 4.9 |
| Iron | | 20000 | | 3.7 | 78 |
| Lead | | 7.1 | | 0.26 | 0.88 |
| Magnesium | | 4000 | | 3.6 | 29 |
| Molybdenum | | 0.76 | J | 0.25 | 2.4 |
| Nickel | | 15 | | 0.12 | 3.9 |
| Potassium | | 880 | | 40 | 290 |
| Selenium | | 1.2 | U | 0.84 | 2.9 |
| Silver | | 0.19 | U | 0.16 | 1.5 |
| Sodium | | 97 | U | 57 | 490 |
| Strontium | | 15 | Ø | 0.035 | 1.5 |
| Thallium | | 1.2 | U | 0.63 | 2.9 |
| Vanadium | | 16 | | 0.092 | 1.9 |
| Zinc | | 50 | | 0.39 | 7.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 1900 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

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| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1300 | Ø Ø | 0.49 | 22 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1112AA**

Lab Sample ID: 280-45026-16
Client Matrix: Solid

% Moisture: 11.9

Date Sampled: 07/29/2013 1359
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

Analysis Method: 6010C
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 08/15/2013 0148
Prep Date: 08/14/2013 1300

Analysis Batch: 280-187287
Prep Batch: 280-186959

Instrument ID: MT_025
Lab File ID: 25A5081413.asc
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 100 mL

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.67 | U | 0.43 | 2.2 |
| Arsenic | | 5.3 | | 0.74 | 2.8 |

Analysis Method: 6010C
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 08/15/2013 1853
Prep Date: 08/14/2013 1300

Analysis Batch: 280-187483
Prep Batch: 280-186959

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 100 mL

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 8700 | | 1.7 | 56 |
| Barium | | 43 | | 0.085 | 2.2 |
| Beryllium | | 0.38 | J | 0.037 | 0.56 |
| Boron | | 2.1 | J | 1.1 | 11 |
| Cadmium | | 0.20 | J | 0.046 | 0.56 |
| Calcium | | 2500 | | 16 | 110 |
| Chromium | | 14 | | 0.065 | 3.9 |
| Cobalt | | 7.5 | | 0.11 | 1.1 |
| Copper | | 62 | | 0.24 | 5.6 |
| Iron | | 22000 | | 4.3 | 90 |
| Lead | | 5.8 | | 0.30 | 1.0 |
| Magnesium | | 3900 | | 4.2 | 34 |
| Molybdenum | | 0.60 | J | 0.29 | 2.8 |
| Nickel | | 15 | | 0.14 | 4.5 |
| Potassium | | 930 | | 46 | 340 |
| Selenium | | 1.3 | U | 0.97 | 3.4 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 66 | 560 |
| Strontium | | 7.6 | | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.73 | 3.4 |
| Vanadium | | 16 | | 0.11 | 2.2 |
| Zinc | | 86 | | 0.45 | 9.0 |

Analysis Method: 6010C
Prep Method: 3050B
Dilution: 5.0
Analysis Date: 08/15/2013 1855
Prep Date: 08/14/2013 1300

Analysis Batch: 280-187483
Prep Batch: 280-186959

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 100 mL

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1500 | | 0.56 | 25 |

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Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1108AA**

Lab Sample ID: 280-45026-15
Client Matrix: Solid

% Moisture: 14.8

Date Sampled: 07/29/2013 1347
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 0146 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.65 | U | 0.41 | 2.2 |
| Arsenic | | 5.4 | | 0.72 | 2.7 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 1850 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9100 | ~~Ø~~ | 1.7 | 54 |
| Barium | | 47 | | 0.083 | 2.2 |
| Beryllium | | 0.47 | J | 0.036 | 0.54 |
| Boron | | 2.9 | J | 1.1 | 11 |
| Cadmium | | 0.44 | J ~~Ø~~ | 0.045 | 0.54 |
| Calcium | | 8400 | | 15 | 110 |
| Chromium | | 17 | ~~Ø~~ | 0.063 | 3.8 |
| Cobalt | | 7.6 | | 0.11 | 1.1 |
| Copper | | 63 | ~~Ø~~ | 0.24 | 5.4 |
| Iron | | 20000 | | 4.1 | 87 |
| Lead | | 18 | | 0.29 | 0.98 |
| Magnesium | | 4000 | | 4.0 | 33 |
| Manganese | | 620 | ~~Ø~~ | 0.11 | 4.9 |
| Molybdenum | | 0.91 | J | 0.28 | 2.7 |
| Nickel | | 18 | | 0.13 | 4.3 |
| Potassium | | 1100 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.93 | 3.3 |
| Silver | | 0.22 | U | 0.17 | 1.6 |
| Sodium | | 110 | U | 64 | 540 |
| Strontium | | 32 | ~~Ø~~ | 0.039 | 1.6 |
| Thallium | | 1.3 | U | 0.71 | 3.3 |
| Vanadium | | 16 | | 0.10 | 2.2 |
| Zinc | | 67 | | 0.43 | 8.7 |

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Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS1104AA

Lab Sample ID: 280-45026-14
Client Matrix: Solid

% Moisture: 8.0

Date Sampled: 07/29/2013 1345
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 0144 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.55 | U | 0.35 | 1.8 |
| Arsenic | | 3.5 | | 0.60 | 2.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 1848 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 6900 | ~~Q~~ | 1.4 | 46 |
| Barium | | 23 | | 0.069 | 1.8 |
| Beryllium | | 0.34 | J | 0.030 | 0.46 |
| Boron | | 1.8 | J | 0.89 | 9.1 |
| Cadmium | | 0.22 | J ~~Q~~ | 0.037 | 0.46 |
| Calcium | | 1800 | | 13 | 91 |
| Chromium | | 9.5 | ~~Q~~ | 0.053 | 3.2 |
| Cobalt | | 5.3 | | 0.091 | 0.91 |
| Copper | | 29 | ~~Q~~ | 0.20 | 4.6 |
| Iron | | 16000 | | 3.5 | 73 |
| Lead | | 8.7 | | 0.25 | 0.82 |
| Magnesium | | 2800 | | 3.4 | 27 |
| Manganese | | 510 | ~~Q~~ | 0.091 | 4.1 |
| Molybdenum | | 0.40 | J | 0.24 | 2.3 |
| Nickel | | 13 | | 0.11 | 3.7 |
| Potassium | | 830 | | 37 | 270 |
| Selenium | | 1.1 | U | 0.79 | 2.7 |
| Silver | | 0.18 | U | 0.15 | 1.4 |
| Sodium | | 70 | J | 54 | 460 |
| Strontium | | 5.6 | ~~Q~~ | 0.033 | 1.4 |
| Thallium | | 1.1 | U | 0.59 | 2.7 |
| Vanadium | | 14 | | 0.086 | 1.8 |
| Zinc | | 46 | | 0.36 | 7.3 |

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11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0912AA**

Lab Sample ID: 280-45026-10
Client Matrix: Solid

% Moisture: 7.6

Date Sampled: 07/29/2013 1505
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 0141 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.59 | U | 0.37 | 2.0 |
| Arsenic | | 4.5 | | 0.65 | 2.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 1843 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Boron | | 1.5 | J | 0.96 | 9.8 |
| Cadmium | | 0.19 | J | 0.040 | 0.49 |
| Chromium | | 11 | | 0.057 | 3.4 |
| Cobalt | | 5.3 | | 0.098 | 0.98 |
| Copper | | 47 | | 0.21 | 4.9 |
| Lead | | 5.5 | | 0.27 | 0.89 |
| Magnesium | | 3200 | | 3.6 | 30 |
| Molybdenum | | 0.34 | J | 0.26 | 2.5 |
| Nickel | | 13 | | 0.12 | 3.9 |
| Selenium | | 1.2 | U | 0.85 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.64 | 3.0 |
| Vanadium | | 17 | | 0.093 | 2.0 |
| Zinc | | 45 | | 0.39 | 7.9 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 1846 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 10000 | | 7.6 | 250 |
| Barium | | 42 | | 0.37 | 9.8 |
| Beryllium | | 0.42 | J | 0.16 | 2.5 |
| Calcium | | 5200 | | 69 | 490 |
| Iron | | 25000 | | 19 | 390 |
| Manganese | | 1300 | | 0.49 | 22 |
| Potassium | | 860 | J | 200 | 1500 |
| Sodium | | 490 | U | 290 | 2500 |
| Strontium | | 10 | | 0.18 | 7.4 |

mt 11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS0908AA

Lab Sample ID: 280-45026-9
Client Matrix: Solid

% Moisture: 14.6

Date Sampled: 07/29/2013 1500
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 0139 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.70 | U | 0.44 | 2.3 |
| Arsenic | | 4.6 | | 0.77 | 2.9 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1839 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 12000 | ~~Ø~~ | 1.8 | 58 |
| Barium | | 68 | | 0.088 | 2.3 |
| Beryllium | | 0.48 | J | 0.038 | 0.58 |
| Boron | | 2.1 | J | 1.1 | 12 |
| Cadmium | | 0.52 | J~~Ø~~ | 0.048 | 0.58 |
| Calcium | | 3500 | | 16 | 120 |
| Chromium | | 13 | ~~Ø~~ | 0.067 | 4.1 |
| Cobalt | | 6.7 | | 0.12 | 1.2 |
| Copper | | 23 | ~~Ø~~ | 0.25 | 5.8 |
| Iron | | 22000 | | 4.4 | 93 |
| Lead | | 16 | | 0.31 | 1.0 |
| Magnesium | | 2800 | | 4.3 | 35 |
| Molybdenum | | 0.68 | J | 0.30 | 2.9 |
| Nickel | | 14 | | 0.14 | 4.6 |
| Potassium | | 780 | | 48 | 350 |
| Selenium | | 1.4 | U | 1.0 | 3.5 |
| Silver | | 0.23 | U | 0.19 | 1.7 |
| Sodium | | 560 | J | 68 | 580 |
| Strontium | | 40 | ~~Ø~~ | 0.042 | 1.7 |
| Thallium | | 1.4 | U | 0.75 | 3.5 |
| Vanadium | | 24 | | 0.11 | 2.3 |
| Zinc | | 68 | | 0.46 | 9.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1841 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1400 | ~~Ø~~ | 0.58 | 26 |

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Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0904AA**

Lab Sample ID: 280-45026-8
Client Matrix: Solid

% Moisture: 16.1

Date Sampled: 07/29/2013 1450
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 0137 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.66 | U | 0.42 | 2.2 |
| Arsenic | | 5.2 | | 0.73 | 2.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 1828 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 7800 | | 1.7 | 55 |
| Barium | | 35 | | 0.084 | 2.2 |
| Beryllium | | 0.35 | J | 0.036 | 0.55 |
| Boron | | 2.2 | J | 1.1 | 11 |
| Cadmium | | 0.76 | ~~Ø~~ | 0.045 | 0.55 |
| Calcium | | 18000 | | 16 | 110 |
| Chromium | | 11 | ~~Ø~~ | 0.064 | 3.9 |
| Cobalt | | 6.0 | | 0.11 | 1.1 |
| Copper | | 33 | ~~Ø~~ | 0.24 | 5.5 |
| Iron | | 18000 | | 4.2 | 88 |
| Lead | | 39 | | 0.30 | 0.99 |
| Magnesium | | 3500 | | 4.1 | 33 |
| Manganese | | 860 | ~~Ø~~ | 0.11 | 5.0 |
| Molybdenum | | 0.32 | J | 0.29 | 2.8 |
| Nickel | | 13 | | 0.14 | 4.4 |
| Potassium | | 810 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.95 | 3.3 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 65 | 550 |
| Strontium | | 41 | ~~Ø~~ | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.72 | 3.3 |
| Vanadium | | 19 | | 0.10 | 2.2 |
| Zinc | | 57 | | 0.44 | 8.8 |

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11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0812AA**

Lab Sample ID: 280-45026-7
Client Matrix: Solid

% Moisture: 11.1

Date Sampled: 07/29/2013 1540
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 08/15/2013 0125 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.59 | U | 0.37 | 2.0 |
| Arsenic | | 5.1 | | 0.65 | 2.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 08/15/2013 1825 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 5900 | | 1.5 | 49 |
| Barium | | 29 | | 0.075 | 2.0 |
| Beryllium | | 0.30 | J | 0.033 | 0.49 |
| Boron | | 2.0 | J | 0.97 | 9.9 |
| Cadmium | | 1.0 | | 0.040 | 0.49 |
| Calcium | | 2000 | | 14 | 99 |
| Chromium | | 27 | | 0.057 | 3.5 |
| Cobalt | | 5.4 | | 0.099 | 0.99 |
| Copper | | 41 | | 0.21 | 4.9 |
| Iron | | 14000 | | 3.7 | 79 |
| Lead | | 140 | | 0.27 | 0.89 |
| Magnesium | | 2500 | | 3.6 | 30 |
| Manganese | | 370 | | 0.099 | 4.4 |
| Molybdenum | | 0.52 | J | 0.26 | 2.5 |
| Nickel | | 11 | | 0.12 | 3.9 |
| Potassium | | 720 | | 40 | 300 |
| Selenium | | 1.2 | U | 0.85 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Sodium | | 99 | U | 58 | 490 |
| Strontium | | 4.1 | | 0.036 | 1.5 |
| Thallium | | 1.2 | U | 0.64 | 3.0 |
| Vanadium | | 11 | | 0.093 | 2.0 |
| Zinc | | 160 | | 0.39 | 7.9 |

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11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0808AA**

Lab Sample ID: 280-45026-6
Client Matrix: Solid
% Moisture: 10.4

Date Sampled: 07/29/2013 1535
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 0123 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.66 | U | 0.42 | 2.2 |
| Arsenic | | 1.9 | J | 0.73 | 2.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1823 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 3300 | | 1.7 | 55 |
| Barium | | 11 | | 0.084 | 2.2 |
| Beryllium | | 0.15 | J | 0.036 | 0.55 |
| Boron | | 1.3 | J | 1.1 | 11 |
| Cadmium | | 0.069 | J | 0.045 | 0.55 |
| Calcium | | 810 | | 16 | 110 |
| Chromium | | 3.9 | | 0.064 | 3.9 |
| Cobalt | | 2.7 | | 0.11 | 1.1 |
| Copper | | 8.0 | | 0.24 | 5.5 |
| Iron | | 7200 | | 4.2 | 88 |
| Lead | | 1.5 | | 0.30 | 0.99 |
| Magnesium | | 1400 | | 4.1 | 33 |
| Manganese | | 240 | | 0.11 | 5.0 |
| Molybdenum | | 0.55 | U | 0.29 | 2.8 |
| Nickel | | 5.8 | | 0.14 | 4.4 |
| Potassium | | 510 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.95 | 3.3 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 65 | 550 |
| Strontium | | 2.9 | | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.72 | 3.3 |
| Vanadium | | 5.9 | | 0.10 | 2.2 |
| Zinc | | 14 | | 0.44 | 8.8 |

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Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0804AA**

Lab Sample ID: 280-45026-5
Client Matrix: Solid

% Moisture: 19.3

Date Sampled: 07/29/2013 1530
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 0121 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.62 | U | 0.40 | 2.1 |
| Arsenic | | 2.7 | | 0.69 | 2.6 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 1821 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 5700 | | 1.6 | 52 |
| Barium | | 23 | | 0.079 | 2.1 |
| Beryllium | | 0.26 | J | 0.034 | 0.52 |
| Boron | | 1.8 | J | 1.0 | 10 |
| Cadmium | | 0.14 | J | 0.043 | 0.52 |
| Calcium | | 2700 | | 15 | 100 |
| Chromium | | 7.0 | | 0.060 | 3.6 |
| Cobalt | | 4.1 | | 0.10 | 1.0 |
| Copper | | 13 | | 0.23 | 5.2 |
| Iron | | 11000 | | 4.0 | 83 |
| Lead | | 14 | | 0.28 | 0.94 |
| Magnesium | | 2200 | | 3.9 | 31 |
| Manganese | | 380 | | 0.10 | 4.7 |
| Molybdenum | | 0.52 | U | 0.27 | 2.6 |
| Nickel | | 9.1 | | 0.13 | 4.2 |
| Potassium | | 720 | | 43 | 310 |
| Selenium | | 1.2 | U | 0.90 | 3.1 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Sodium | | 100 | U | 61 | 520 |
| Strontium | | 6.3 | | 0.037 | 1.6 |
| Thallium | | 1.2 | U | 0.68 | 3.1 |
| Vanadium | | 12 | | 0.098 | 2.1 |
| Zinc | | 33 | | 0.41 | 8.3 |

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Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0712AA**

Lab Sample ID: 280-45026-4
Client Matrix: Solid

% Moisture: 12.0

Date Sampled: 07/29/2013 1600
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 08/15/2013 0118 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 6100 | | 1.6 | 51 |
| Antimony | | 0.61 | U | 0.39 | 2.0 |
| Arsenic | | 4.1 | | 0.67 | 2.5 |
| Barium | | 24 | | 0.077 | 2.0 |
| Beryllium | | 0.37 | J | 0.034 | 0.51 |
| Calcium | | 2900 | | 14 | 100 |
| Iron | | 15000 | | 3.9 | 81 |
| Potassium | | 710 | | 42 | 300 |
| Sodium | | 100 | U | 60 | 510 |
| Strontium | | 10 | | 0.037 | 1.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 08/15/2013 1818 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Boron | | 1.8 | J | 0.99 | 10 |
| Cadmium | | 0.14 | J | 0.042 | 0.51 |
| Chromium | | 8.3 | | 0.059 | 3.6 |
| Cobalt | | 4.7 | | 0.10 | 1.0 |
| Copper | | 23 | | 0.22 | 5.1 |
| Lead | | 4.7 | | 0.27 | 0.91 |
| Magnesium | | 2600 | | 3.8 | 30 |
| Manganese | | 670 | | 0.10 | 4.6 |
| Molybdenum | | 0.27 | J | 0.26 | 2.5 |
| Nickel | | 9.9 | | 0.12 | 4.1 |
| Selenium | | 1.2 | U | 0.87 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.66 | 3.0 |
| Vanadium | | 16 | | 0.095 | 2.0 |
| Zinc | | 40 | | 0.40 | 8.1 |

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Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS0708AA

Lab Sample ID: 280-45026-3
Client Matrix: Solid

% Moisture: 14.1

Date Sampled: 07/29/2013 1554
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

Analysis Method: 6010C
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 08/15/2013 0116
Prep Date: 08/14/2013 1300

Analysis Batch: 280-187287
Prep Batch: 280-186959

Instrument ID: MT_025
Lab File ID: 25A5081413.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.66 | U | 0.42 | 2.2 |
| Arsenic | | 5.3 | | 0.73 | 2.8 |

Analysis Method: 6010C
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 08/15/2013 1814
Prep Date: 08/14/2013 1300

Analysis Batch: 280-187483
Prep Batch: 280-186959

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 7800 | | 1.7 | 55 |
| Barium | | 34 | | 0.084 | 2.2 |
| Beryllium | | 0.44 | J | 0.037 | 0.55 |
| Boron | | 1.6 | J | 1.1 | 11 |
| Cadmium | | 0.17 | J | 0.045 | 0.55 |
| Calcium | | 2300 | | 16 | 110 |
| Chromium | | 10 | | 0.064 | 3.9 |
| Cobalt | | 5.1 | | 0.11 | 1.1 |
| Copper | | 36 | | 0.24 | 5.5 |
| Iron | | 19000 | | 4.2 | 89 |
| Lead | | 5.5 | | 0.30 | 1.0 |
| Magnesium | | 2700 | | 4.1 | 33 |
| Molybdenum | | 1.0 | J | 0.29 | 2.8 |
| Nickel | | 13 | | 0.14 | 4.4 |
| Potassium | | 660 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.95 | 3.3 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 65 | 550 |
| Strontium | | 9.4 | | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.72 | 3.3 |
| Vanadium | | 14 | | 0.10 | 2.2 |
| Zinc | | 34 | | 0.44 | 8.9 |

Analysis Method: 6010C
Prep Method: 3050B
Dilution: 5.0
Analysis Date: 08/15/2013 1816
Prep Date: 08/14/2013 1300

Analysis Batch: 280-187483
Prep Batch: 280-186959

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1500 | | 0.55 | 25 |

mlt 11/4/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS0704AC

Lab Sample ID: 280-45026-2
Client Matrix: Solid

% Moisture: 15.0

Date Sampled: 07/29/2013 1550
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.18 g |
| Analysis Date: | 08/15/2013 0114 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.60 | U | 0.38 | 2.0 |
| Arsenic | | 2.0 | J | 0.66 | 2.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.18 g |
| Analysis Date: | 08/15/2013 1811 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 3200 | | 1.5 | 50 |
| Barium | | 10 | | 0.076 | 2.0 |
| Beryllium | | 0.14 | J | 0.033 | 0.50 |
| Boron | | 1.3 | J | 0.98 | 10 |
| Cadmium | | 0.052 | J | 0.041 | 0.50 |
| Calcium | | 2000 | | 14 | 100 |
| Chromium | | 3.8 | | 0.058 | 3.5 |
| Cobalt | | 2.6 | | 0.10 | 1.0 |
| Copper | | 8.2 | | 0.22 | 5.0 |
| Iron | | 7000 | | 3.8 | 80 |
| Lead | | 1.8 | | 0.27 | 0.90 |
| Magnesium | | 1500 | | 3.7 | 30 |
| Manganese | | 240 | | 0.10 | 4.5 |
| Molybdenum | | 0.50 | U | 0.26 | 2.5 |
| Nickel | | 5.7 | | 0.12 | 4.0 |
| Potassium | | 490 | | 41 | 300 |
| Selenium | | 1.2 | U | 0.86 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Sodium | | 100 | U | 59 | 500 |
| Strontium | | 4.7 | | 0.036 | 1.5 |
| Thallium | | 1.2 | U | 0.65 | 3.0 |
| Vanadium | | 5.8 | | 0.094 | 2.0 |
| Zinc | | 14 | | 0.40 | 8.0 |

11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0704AA**

Lab Sample ID: 280-45026-1
Client Matrix: Solid

% Moisture: 15.3

Date Sampled: 07/29/2013 1550
Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 0111 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.64 | U | 0.41 | 2.1 |
| Arsenic | | 2.4 | J | 0.71 | 2.7 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 1809 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 3700 | | 1.7 | 54 |
| Barium | | 12 | | 0.082 | 2.1 |
| Beryllium | | 0.17 | J | 0.035 | 0.54 |
| Boron | | 1.4 | J | 1.1 | 11 |
| Cadmium | | 0.083 | J | 0.044 | 0.54 |
| Calcium | | 1900 | | 15 | 110 |
| Chromium | | 4.2 | | 0.062 | 3.8 |
| Cobalt | | 3.2 | | 0.11 | 1.1 |
| Copper | | 8.5 | | 0.23 | 5.4 |
| Iron | | 7900 | | 4.1 | 86 |
| Lead | | 2.2 | | 0.29 | 0.97 |
| Magnesium | | 1700 | | 4.0 | 32 |
| Manganese | | 270 | | 0.11 | 4.8 |
| Molybdenum | | 0.54 | U | 0.28 | 2.7 |
| Nickel | | 6.4 | | 0.13 | 4.3 |
| Potassium | | 540 | | 44 | 320 |
| Selenium | | 1.3 | U | 0.92 | 3.2 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Sodium | | 110 | U | 63 | 540 |
| Strontium | | 5.6 | | 0.039 | 1.6 |
| Thallium | | 1.3 | U | 0.70 | 3.2 |
| Vanadium | | 6.7 | | 0.10 | 2.1 |
| Zinc | | 15 | | 0.43 | 8.6 |

CLK
11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS1012AA

Lab Sample ID: 280-45026-13
Client Matrix: Solid

% Moisture: 13.4

Date Sampled: 07/29/2013 1520
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5779.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2152 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 37 | U | 11 | 370 |
| Bis(2-chloroethoxy)methane | | 73 | U | 25 | 370 |
| Bis(2-chloroethyl)ether | | 37 | U | 18 | 370 |
| Bis(2-ethylhexyl) phthalate | | 73 | U | 51 | 370 |
| Butyl benzyl phthalate | | 73 | U | 48 | 370 |
| Caprolactam | | 370 | U | 120 | 1800 |
| Carbazole | | 74 | U | 40 | 370 |
| Chrysene | | 52 | J | 30 | 370 |
| Dibenz(a,h)anthracene | | 37 | U | 21 | 370 |
| Dibenzofuran | | 37 | U | 22 | 370 |
| Diethyl phthalate | | 37 | U | 29 | 730 |
| Dimethyl phthalate | | 190 | J | 25 | 370 |
| Di-n-butyl phthalate | | 37 | U | 32 | 370 |
| Di-n-octyl phthalate | | 73 | U | 16 | 370 |
| Fluoranthene | | 65 | J | 40 | 370 |
| Fluorene | | 37 | U | 20 | 370 |
| Hexachlorobenzene | | 73 | U | 32 | 370 |
| Hexachlorobutadiene | | 73 | U | 11 | 370 |
| Hexachlorocyclopentadiene | | 73 | U | 55 | 1900 |
| Hexachloroethane | | 37 | U | 24 | 370 |
| Indeno[1,2,3-cd]pyrene | | 30 | J | 24 | 370 |
| Isophorone | | 37 | U | 19 | 370 |
| Naphthalene | | 73 | U | 34 | 370 |
| Nitrobenzene | | 37 | U | 24 | 370 |
| N-Nitrosodimethylamine | | 73 | U | 41 | 580 |
| N-Nitrosodi-n-propylamine | | 73 | U | 34 | 370 |
| N-Nitrosodiphenylamine | | 37 | U | 23 | 370 |
| N-Nitrosopyrrolidine | | 140 | U | 71 | 370 |
| Pentachlorophenol | | 740 | U | 370 | 1800 |
| Phenanthrene | | 29 | J | 19 | 370 |
| Phenol | | 37 | U | 20 | 370 |
| Pyrene | | 85 | J | 13 | 440 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 87 | | 35 - 125 |
| 2-Fluorobiphenyl | 84 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 80 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | | 35 - 100 |
| Phenol-d5 (Surr) | 85 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 93 | | 30 - 125 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1012AA**

Lab Sample ID: 280-45026-13
Client Matrix: Solid

% Moisture: 13.4

Date Sampled: 07/29/2013 1520
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5779.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2152 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 180 | U | 55 | 370 |
| 1,2,4,5-Tetrachlorobenzene | | 74 | U | 54 | 370 |
| 1,2,4-Trichlorobenzene | | 37 | U | 31 | 370 |
| 1,2-Dichlorobenzene | | 37 | U | 24 | 370 |
| 1,2-Diphenylhydrazine | | 37 | U | 24 | 370 |
| 1,3-Dichlorobenzene | | 37 | U | 13 | 370 |
| 1,4-Dichlorobenzene | | 37 | U | 15 | 370 |
| 2,2'-oxybis[1-chloropropane] | | 37 | U | 25 | 370 |
| 2,3,4,6-Tetrachlorophenol | | 180 | U | 150 | 1800 |
| 2,4,5-Trichlorophenol | | 140 | U | 11 | 370 |
| 2,4,6-Trichlorophenol | | 73 | U | 11 | 370 |
| 2,4-Dichlorophenol | | 73 | U | 11 | 370 |
| 2,4-Dimethylphenol | | 140 | U | 73 | 370 |
| 2,4-Dinitrophenol | | 740 | U | 370 | 1800 |
| 2,4-Dinitrotoluene | | 140 | U | 73 | 370 |
| 2,6-Dichlorophenol | | 140 | U | 76 | 370 |
| 2,6-Dinitrotoluene | | 73 | U | 31 | 370 |
| 2-Chloronaphthalene | | 37 | U | 11 | 370 |
| 2-Chlorophenol | | 37 | U | 23 | 370 |
| 2-Methylnaphthalene | | 37 | U | 21 | 370 |
| 2-Methylphenol | | 37 | U | 14 | 370 |
| 2-Nitroaniline | | 73 | U | 55 | 1800 |
| 2-Nitrophenol | | 73 | U | 11 | 370 |
| 3 & 4 Methylphenol | | 73 | U | 37 | 370 |
| 3,3'-Dichlorobenzidine | | 370 | U | 100 | 1800 |
| 3-Nitroaniline | | 150 | U | 81 | 1800 |
| 4,6-Dinitro-2-methylphenol | | 730 | U | 370 | 1800 |
| 4-Bromophenyl phenyl ether | | 37 | U | 21 | 370 |
| 4-Chloro-3-methylphenol | | 140 | U | 73 | 370 |
| 4-Chloroaniline | | 140 | U | 91 | 370 |
| 4-Chlorophenyl phenyl ether | | 73 | U | 23 | 370 |
| 4-Nitroaniline | | 140 | U | 80 | 1800 |
| 4-Nitrophenol | | 370 | U | 110 | 1800 |
| Acenaphthene | | 19 | U | 11 | 370 |
| Acenaphthylene | | 21 | J | 19 | 370 |
| Acetophenone | | 37 | U | 22 | 370 |
| Anthracene | | 37 | U | 19 | 370 |
| Atrazine | | 140 | U | 41 | 370 |
| Benzaldehyde | | 74 | U | 43 | 370 |
| Benzidine | | 4400 | U | 1100 | 4400 |
| Benzo[a]anthracene | | 38 | J | 22 | 370 |
| Benzo[a]pyrene | | 46 | J | 22 | 370 |
| Benzo[b]fluoranthene | | 75 | J | 29 | 370 |
| Benzo[g,h,i]perylene | | 39 | J | 18 | 370 |
| Benzo[k]fluoranthene | | 73 | U | 44 | 370 |
| Benzoic acid | | 730 | U | 370 | 1800 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1008AA**

Lab Sample ID: 280-45026-12
Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 07/29/2013 1515
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5778.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 32.6 g |
| Analysis Date: | 08/14/2013 2125 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 35 | U | 11 | 350 |
| Bis(2-chloroethoxy)methane | | 69 | U | 24 | 350 |
| Bis(2-chloroethyl)ether | | 35 | U | 17 | 350 |
| Bis(2-ethylhexyl) phthalate | | 52 | J | 48 | 350 |
| Butyl benzyl phthalate | | 69 | U | 45 | 350 |
| Caprolactam | | 350 | U | 110 | 1700 |
| Carbazole | | 70 | U | 38 | 350 |
| Chrysene | | 540 | | 28 | 350 |
| Dibenz(a,h)anthracene | | 58 | J M | 20 | 350 |
| Dibenzofuran | | 35 | U | 21 | 350 |
| Diethyl phthalate | | 35 | U | 27 | 690 |
| Dimethyl phthalate | | 390 | | 24 | 350 |
| Di-n-butyl phthalate | | 35 | U | 30 | 350 |
| Di-n-octyl phthalate | | 69 | U | 15 | 350 |
| Fluoranthene | | 690 | | 38 | 350 |
| Fluorene | | 30 | J | 19 | 350 |
| Hexachlorobenzene | | 69 | U | 30 | 350 |
| Hexachlorobutadiene | | 69 | U | 11 | 350 |
| Hexachlorocyclopentadiene | | 69 | U | 53 | 1800 |
| Hexachloroethane | | 35 | U | 22 | 350 |
| Indeno[1,2,3-cd]pyrene | | 330 | J | 23 | 350 |
| Isophorone | | 35 | U | 18 | 350 |
| Naphthalene | | 69 | U | 33 | 350 |
| Nitrobenzene | | 35 | U | 23 | 350 |
| N-Nitrosodimethylamine | | 69 | U | 39 | 550 |
| N-Nitrosodi-n-propylamine | | 69 | U | 33 | 350 |
| N-Nitrosodiphenylamine | | 35 | U | 22 | 350 |
| N-Nitrosopyrrolidine | | 140 | U | 67 | 350 |
| Pentachlorophenol | | 700 | U | 350 | 1700 |
| Phenanthrene | | 330 | J | 18 | 350 |
| Phenol | | 35 | U | 19 | 350 |
| Pyrene | | 900 | | 13 | 420 |

CLK 11/5/13

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 92 | | 35 - 125 |
| 2-Fluorobiphenyl | 86 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 81 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 79 | | 35 - 100 |
| Phenol-d5 (Surr) | 86 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 96 | | 30 - 125 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1008AA**

Lab Sample ID: 280-45026-12
Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 07/29/2013 1515
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5778.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 32.6 g |
| Analysis Date: | 08/14/2013 2125 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 180 | U | 53 | 350 |
| 1,2,4,5-Tetrachlorobenzene | | 70 | U | 51 | 350 |
| 1,2,4-Trichlorobenzene | | 35 | U | 29 | 350 |
| 1,2-Dichlorobenzene | | 35 | U | 23 | 350 |
| 1,2-Diphenylhydrazine | | 35 | U | 23 | 350 |
| 1,3-Dichlorobenzene | | 35 | U | 13 | 350 |
| 1,4-Dichlorobenzene | | 35 | U | 14 | 350 |
| 2,2'-oxybis[1-chloropropane] | | 35 | U | 24 | 350 |
| 2,3,4,6-Tetrachlorophenol | | 180 | U | 140 | 1700 |
| 2,4,5-Trichlorophenol | | 140 | U | 11 | 350 |
| 2,4,6-Trichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dimethylphenol | | 140 | U | 69 | 350 |
| 2,4-Dinitrophenol | | 700 | U | 350 | 1700 |
| 2,4-Dinitrotoluene | | 140 | U | 69 | 350 |
| 2,6-Dichlorophenol | | 140 | U | 72 | 350 |
| 2,6-Dinitrotoluene | | 69 | U | 29 | 350 |
| 2-Chloronaphthalene | | 35 | U | 11 | 350 |
| 2-Chlorophenol | | 35 | U | 22 | 350 |
| 2-Methylnaphthalene | | 35 | U | 20 | 350 |
| 2-Methylphenol | | 35 | U | 14 | 350 |
| 2-Nitroaniline | | 69 | U | 53 | 1700 |
| 2-Nitrophenol | | 69 | U | 11 | 350 |
| 3 & 4 Methylphenol | | 69 | U | 35 | 350 |
| 3,3'-Dichlorobenzidine | | 350 | U | 95 | 1700 |
| 3-Nitroaniline | | 140 | U | 77 | 1700 |
| 4,6-Dinitro-2-methylphenol | | 690 | U | 350 | 1700 |
| 4-Bromophenyl phenyl ether | | 35 | U | 20 | 350 |
| 4-Chloro-3-methylphenol | | 140 | U | 69 | 350 |
| 4-Chloroaniline | | 140 | U | 86 | 350 |
| 4-Chlorophenyl phenyl ether | | 69 | U | 22 | 350 |
| 4-Nitroaniline | | 140 | U | 76 | 1700 |
| 4-Nitrophenol | | 350 | U | 100 | 1700 |
| Acenaphthene | | 11 | J | 11 | 350 |
| Acenaphthylene | | 160 | J | 18 | 350 |
| Acetophenone | | 35 | U | 21 | 350 |
| Anthracene | | 100 | J | 18 | 350 |
| Atrazine | | 140 | U | 39 | 350 |
| Benzaldehyde | | 70 | U | 41 | 350 |
| Benzidine | | 4200 | U | 1000 | 4200 |
| Benzo[a]anthracene | | 370 | | 21 | 350 |
| Benzo[a]pyrene | | 420 | | 21 | 350 |
| Benzo[b]fluoranthene | | 600 | M | 28 | 350 |
| Benzo[g,h,i]perylene | | 330 | J | 17 | 350 |
| Benzo[k]fluoranthene | | 220 | J M | 42 | 350 |
| Benzoic acid | | 690 | U | 350 | 1700 |

cdt 11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1004AA**

Lab Sample ID: 280-45026-11
Client Matrix: Solid

% Moisture: 15.4

Date Sampled: 07/29/2013 1510
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5777.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2059 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 37 | U | 11 | 370 |
| Bis(2-chloroethoxy)methane | | 75 | U | 26 | 370 |
| Bis(2-chloroethyl)ether | | 37 | U | 19 | 370 |
| Bis(2-ethylhexyl) phthalate | | 75 | U | 52 | 370 |
| Butyl benzyl phthalate | | 75 | U | 49 | 370 |
| Caprolactam | | 370 | U | 120 | 1800 |
| Carbazole | | 76 | U | 41 | 370 |
| Chrysene | | 37 | U | 31 | 370 |
| Dibenz(a,h)anthracene | | 37 | U | 22 | 370 |
| Dibenzofuran | | 37 | U | 23 | 370 |
| Diethyl phthalate | | 37 | U | 29 | 750 |
| Dimethyl phthalate | | 350 | J | 26 | 370 |
| Di-n-butyl phthalate | | 37 | U | 33 | 370 |
| Di-n-octyl phthalate | | 75 | U | 16 | 370 |
| Fluoranthene | | 75 | U | 41 | 370 |
| Fluorene | | 37 | U | 20 | 370 |
| Hexachlorobenzene | | 75 | U | 33 | 370 |
| Hexachlorobutadiene | | 75 | U | 11 | 370 |
| Hexachlorocyclopentadiene | | 75 | U | 57 | 1900 |
| Hexachloroethane | | 37 | U | 24 | 370 |
| Indeno[1,2,3-cd]pyrene | | 37 | U | 25 | 370 |
| Isophorone | | 37 | U | 19 | 370 |
| Naphthalene | | 75 | U | 35 | 370 |
| Nitrobenzene | | 37 | U | 25 | 370 |
| N-Nitrosodimethylamine | | 75 | U | 42 | 590 |
| N-Nitrosodi-n-propylamine | | 75 | U | 35 | 370 |
| N-Nitrosodiphenylamine | | 37 | U | 24 | 370 |
| N-Nitrosopyrrolidine | | 150 | U | 73 | 370 |
| Pentachlorophenol | | 760 | U | 370 | 1800 |
| Phenanthrene | | 21 | J | 19 | 370 |
| Phenol | | 37 | U | 20 | 370 |
| Pyrene | | 44 | J | 14 | 450 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 84 | | 35 - 125 |
| 2-Fluorobiphenyl | 80 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 79 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | | 35 - 100 |
| Phenol-d5 (Surr) | 81 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 91 | | 30 - 125 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1004AA**

Lab Sample ID: 280-45026-11
Client Matrix: Solid

% Moisture: 15.4

Date Sampled: 07/29/2013 1510
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5777.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2059 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 190 | U | 57 | 370 |
| 1,2,4,5-Tetrachlorobenzene | | 76 | U | 56 | 370 |
| 1,2,4-Trichlorobenzene | | 37 | U | 32 | 370 |
| 1,2-Dichlorobenzene | | 37 | U | 25 | 370 |
| 1,2-Diphenylhydrazine | | 37 | U | 25 | 370 |
| 1,3-Dichlorobenzene | | 37 | U | 14 | 370 |
| 1,4-Dichlorobenzene | | 37 | U | 15 | 370 |
| 2,2'-oxybis[1-chloropropane] | | 37 | U | 26 | 370 |
| 2,3,4,6-Tetrachlorophenol | | 190 | U | 160 | 1800 |
| 2,4,5-Trichlorophenol | | 150 | U | 11 | 370 |
| 2,4,6-Trichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dimethylphenol | | 150 | U | 75 | 370 |
| 2,4-Dinitrophenol | | 760 | U | 380 | 1800 |
| 2,4-Dinitrotoluene | | 150 | U | 75 | 370 |
| 2,6-Dichlorophenol | | 150 | U | 78 | 370 |
| 2,6-Dinitrotoluene | | 75 | U | 32 | 370 |
| 2-Chloronaphthalene | | 37 | U | 11 | 370 |
| 2-Chlorophenol | | 37 | U | 24 | 370 |
| 2-Methylnaphthalene | | 37 | U | 22 | 370 |
| 2-Methylphenol | | 37 | U | 15 | 370 |
| 2-Nitroaniline | | 75 | U | 57 | 1800 |
| 2-Nitrophenol | | 75 | U | 11 | 370 |
| 3 & 4 Methylphenol | | 75 | U | 37 | 370 |
| 3,3'-Dichlorobenzidine | | 370 | U | 100 | 1800 |
| 3-Nitroaniline | | 150 | U | 83 | 1800 |
| 4,6-Dinitro-2-methylphenol | | 750 | U | 370 | 1800 |
| 4-Bromophenyl phenyl ether | | 37 | U | 22 | 370 |
| 4-Chloro-3-methylphenol | | 150 | U | 75 | 370 |
| 4-Chloroaniline | | 150 | U | 93 | 370 |
| 4-Chlorophenyl phenyl ether | | 75 | U | 24 | 370 |
| 4-Nitroaniline | | 150 | U | 82 | 1800 |
| 4-Nitrophenol | | 370 | U | 110 | 1800 |
| Acenaphthene | | 19 | U | 12 | 370 |
| Acenaphthylene | | 37 | U | 19 | 370 |
| Acetophenone | | 37 | U | 23 | 370 |
| Anthracene | | 37 | U | 19 | 370 |
| Atrazine | | 150 | U | 42 | 370 |
| Benzaldehyde | | 76 | U | 44 | 370 |
| Benzidine | | 4500 | U | 1100 | 4500 |
| Benzo[a]anthracene | | 37 | U | 23 | 370 |
| Benzo[a]pyrene | | 37 | U | 23 | 370 |
| Benzo[b]fluoranthene | | 37 | U | 30 | 370 |
| Benzo[g,h,i]perylene | | 37 | U | 18 | 370 |
| Benzo[k]fluoranthene | | 75 | U | 45 | 370 |
| Benzoic acid | | 750 | U | 370 | 1800 |

CMT 11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0912AA**

Lab Sample ID: 280-45026-10
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 07/29/2013 1505
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5776.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.9 g |
| Analysis Date: | 08/14/2013 2032 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 35 | U | 11 | 350 |
| Bis(2-chloroethoxy)methane | | 69 | U | 24 | 350 |
| Bis(2-chloroethyl)ether | | 35 | U | 17 | 350 |
| Bis(2-ethylhexyl) phthalate | | 69 | U | 48 | 350 |
| Butyl benzyl phthalate | | 69 | U | 45 | 350 |
| Caprolactam | | 350 | U | 110 | 1700 |
| Carbazole | | 70 | U | 38 | 350 |
| Chrysene | | 35 | U | 28 | 350 |
| Dibenz(a,h)anthracene | | 35 | U | 20 | 350 |
| Dibenzofuran | | 35 | U | 21 | 350 |
| Diethyl phthalate | | 35 | U | 27 | 690 |
| Dimethyl phthalate | | 140 | J | 24 | 350 |
| Di-n-butyl phthalate | | 35 | U | 30 | 350 |
| Di-n-octyl phthalate | | 69 | U | 15 | 350 |
| Fluoranthene | | 69 | U | 38 | 350 |
| Fluorene | | 35 | U | 19 | 350 |
| Hexachlorobenzene | | 69 | U | 30 | 350 |
| Hexachlorobutadiene | | 69 | U | 11 | 350 |
| Hexachlorocyclopentadiene | | 69 | U | 53 | 1800 |
| Hexachloroethane | | 35 | U | 22 | 350 |
| Indeno[1,2,3-cd]pyrene | | 35 | U | 23 | 350 |
| Isophorone | | 35 | U | 18 | 350 |
| Naphthalene | | 69 | U | 33 | 350 |
| Nitrobenzene | | 35 | U | 23 | 350 |
| N-Nitrosodimethylamine | | 69 | U | 39 | 550 |
| N-Nitrosodi-n-propylamine | | 69 | U | 33 | 350 |
| N-Nitrosodiphenylamine | | 35 | U | 22 | 350 |
| N-Nitrosopyrrolidine | | 140 | U | 67 | 350 |
| Pentachlorophenol | | 700 | U | 350 | 1700 |
| Phenanthrene | | 35 | U | 18 | 350 |
| Phenol | | 35 | U | 19 | 350 |
| Pyrene | | 35 | U | 13 | 420 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 85 | | 35 - 125 |
| 2-Fluorobiphenyl | 86 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 82 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 82 | | 35 - 100 |
| Phenol-d5 (Surr) | 87 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 93 | | 30 - 125 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS0912AA

Lab Sample ID: 280-45026-10
Client Matrix: Solid

% Moisture: 7.6

Date Sampled: 07/29/2013 1505
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5776.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.9 g |
| Analysis Date: | 08/14/2013 2032 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 180 | U | 53 | 350 |
| 1,2,4,5-Tetrachlorobenzene | | 70 | U | 51 | 350 |
| 1,2,4-Trichlorobenzene | | 35 | U | 29 | 350 |
| 1,2-Dichlorobenzene | | 35 | U | 23 | 350 |
| 1,2-Diphenylhydrazine | | 35 | U | 23 | 350 |
| 1,3-Dichlorobenzene | | 35 | U | 13 | 350 |
| 1,4-Dichlorobenzene | | 35 | U | 14 | 350 |
| 2,2'-oxybis[1-chloropropane] | | 35 | U | 24 | 350 |
| 2,3,4,6-Tetrachlorophenol | | 180 | U | 140 | 1700 |
| 2,4,5-Trichlorophenol | | 140 | U | 11 | 350 |
| 2,4,6-Trichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dimethylphenol | | 140 | U | 69 | 350 |
| 2,4-Dinitrophenol | | 700 | U | 350 | 1700 |
| 2,4-Dinitrotoluene | | 140 | U | 69 | 350 |
| 2,6-Dichlorophenol | | 140 | U | 73 | 350 |
| 2,6-Dinitrotoluene | | 69 | U | 29 | 350 |
| 2-Chloronaphthalene | | 35 | U | 11 | 350 |
| 2-Chlorophenol | | 35 | U | 22 | 350 |
| 2-Methylnaphthalene | | 35 | U | 20 | 350 |
| 2-Methylphenol | | 35 | U | 14 | 350 |
| 2-Nitroaniline | | 69 | U | 53 | 1700 |
| 2-Nitrophenol | | 69 | U | 11 | 350 |
| 3 & 4 Methylphenol | | 69 | U | 35 | 350 |
| 3,3'-Dichlorobenzidine | | 350 | U | 95 | 1700 |
| 3-Nitroaniline | | 140 | U | 77 | 1700 |
| 4,6-Dinitro-2-methylphenol | | 690 | U | 350 | 1700 |
| 4-Bromophenyl phenyl ether | | 35 | U | 20 | 350 |
| 4-Chloro-3-methylphenol | | 140 | U | 69 | 350 |
| 4-Chloroaniline | | 140 | U | 86 | 350 |
| 4-Chlorophenyl phenyl ether | | 69 | U | 22 | 350 |
| 4-Nitroaniline | | 140 | U | 76 | 1700 |
| 4-Nitrophenol | | 350 | U | 100 | 1700 |
| Acenaphthene | | 18 | U | 11 | 350 |
| Acenaphthylene | | 35 | U | 18 | 350 |
| Acetophenone | | 35 | U | 21 | 350 |
| Anthracene | | 35 | U | 18 | 350 |
| Atrazine | | 140 | U | 39 | 350 |
| Benzaldehyde | | 70 | U | 41 | 350 |
| Benzidine | | 4200 | U | 1000 | 4200 |
| Benzo[a]anthracene | | 35 | U | 21 | 350 |
| Benzo[a]pyrene | | 35 | U | 21 | 350 |
| Benzo[b]fluoranthene | | 35 | U | 28 | 350 |
| Benzo[g,h,i]perylene | | 35 | U | 17 | 350 |
| Benzo[k]fluoranthene | | 69 | U | 42 | 350 |
| Benzoic acid | | 690 | U | 350 | 1700 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0908AA**

Lab Sample ID: 280-45026-9
Client Matrix: Solid

% Moisture: 14.6

Date Sampled: 07/29/2013 1500
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5775.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.0 g |
| Analysis Date: | 08/14/2013 2006 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 37 | U | 11 | 370 |
| Bis(2-chloroethoxy)methane | | 75 | U | 26 | 370 |
| Bis(2-chloroethyl)ether | | 37 | U | 19 | 370 |
| Bis(2-ethylhexyl) phthalate | | 75 | U | 52 | 370 |
| Butyl benzyl phthalate | | 75 | U | 49 | 370 |
| Caprolactam | | 370 | U | 120 | 1800 |
| Carbazole | | 76 | U | 41 | 370 |
| Chrysene | | 68 | J | 31 | 370 |
| Dibenz(a,h)anthracene | | 37 | U | 22 | 370 |
| Dibenzofuran | | 37 | U | 23 | 370 |
| Diethyl phthalate | | 37 | U | 29 | 750 |
| Dimethyl phthalate | | 220 | J | 26 | 370 |
| Di-n-butyl phthalate | | 37 | U | 33 | 370 |
| Di-n-octyl phthalate | | 75 | U | 16 | 370 |
| Fluoranthene | | 78 | J | 41 | 370 |
| Fluorene | | 37 | U | 20 | 370 |
| Hexachlorobenzene | | 75 | U | 33 | 370 |
| Hexachlorobutadiene | | 75 | U | 11 | 370 |
| Hexachlorocyclopentadiene | | 75 | U | 57 | 1900 |
| Hexachloroethane | | 37 | U | 24 | 370 |
| Indeno[1,2,3-cd]pyrene | | 53 | J | 25 | 370 |
| Isophorone | | 37 | U | 19 | 370 |
| Naphthalene | | 75 | U | 35 | 370 |
| Nitrobenzene | | 37 | U | 25 | 370 |
| N-Nitrosodimethylamine | | 75 | U | 42 | 590 |
| N-Nitrosodi-n-propylamine | | 75 | U | 35 | 370 |
| N-Nitrosodiphenylamine | | 37 | U | 24 | 370 |
| N-Nitrosopyrrolidine | | 150 | U | 73 | 370 |
| Pentachlorophenol | | 760 | U | 370 | 1800 |
| Phenanthrene | | 36 | J | 19 | 370 |
| Phenol | | 37 | U | 20 | 370 |
| Pyrene | | 94 | J | 14 | 450 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 90 | | 35 - 125 |
| 2-Fluorobiphenyl | 86 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 80 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | | 35 - 100 |
| Phenol-d5 (Surr) | 87 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 97 | | 30 - 125 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0908AA**

Lab Sample ID: 280-45026-9
Client Matrix: Solid

% Moisture: 14.6

Date Sampled: 07/29/2013 1500
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5775.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.0 g |
| Analysis Date: | 08/14/2013 2006 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 190 | U | 57 | 370 |
| 1,2,4,5-Tetrachlorobenzene | | 76 | U | 56 | 370 |
| 1,2,4-Trichlorobenzene | | 37 | U | 32 | 370 |
| 1,2-Dichlorobenzene | | 37 | U | 25 | 370 |
| 1,2-Diphenylhydrazine | | 37 | U | 25 | 370 |
| 1,3-Dichlorobenzene | | 37 | U | 14 | 370 |
| 1,4-Dichlorobenzene | | 37 | U | 15 | 370 |
| 2,2'-oxybis[1-chloropropane] | | 37 | U | 26 | 370 |
| 2,3,4,6-Tetrachlorophenol | | 190 | U | 160 | 1800 |
| 2,4,5-Trichlorophenol | | 150 | U | 11 | 370 |
| 2,4,6-Trichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dimethylphenol | | 150 | U | 75 | 370 |
| 2,4-Dinitrophenol | | 760 | U | 380 | 1800 |
| 2,4-Dinitrotoluene | | 150 | U | 75 | 370 |
| 2,6-Dichlorophenol | | 150 | U | 78 | 370 |
| 2,6-Dinitrotoluene | | 75 | U | 32 | 370 |
| 2-Chloronaphthalene | | 37 | U | 11 | 370 |
| 2-Chlorophenol | | 37 | U | 24 | 370 |
| 2-Methylnaphthalene | | 37 | U | 22 | 370 |
| 2-Methylphenol | | 37 | U | 15 | 370 |
| 2-Nitroaniline | | 75 | U | 57 | 1800 |
| 2-Nitrophenol | | 75 | U | 11 | 370 |
| 3 & 4 Methylphenol | | 75 | U | 37 | 370 |
| 3,3'-Dichlorobenzidine | | 370 | U | 100 | 1800 |
| 3-Nitroaniline | | 150 | U | 83 | 1800 |
| 4,6-Dinitro-2-methylphenol | | 750 | U | 370 | 1800 |
| 4-Bromophenyl phenyl ether | | 37 | U | 22 | 370 |
| 4-Chloro-3-methylphenol | | 150 | U | 75 | 370 |
| 4-Chloroaniline | | 150 | U | 93 | 370 |
| 4-Chlorophenyl phenyl ether | | 75 | U | 24 | 370 |
| 4-Nitroaniline | | 150 | U | 82 | 1800 |
| 4-Nitrophenol | | 370 | U | 110 | 1800 |
| Acenaphthene | | 19 | U | 12 | 370 |
| Acenaphthylene | | 31 | J | 19 | 370 |
| Acetophenone | | 37 | U | 23 | 370 |
| Anthracene | | 37 | U | 19 | 370 |
| Atrazine | | 150 | U | 42 | 370 |
| Benzaldehyde | | 76 | U | 44 | 370 |
| Benzidine | | 4500 | U | 1100 | 4500 |
| Benzo[a]anthracene | | 51 | J | 23 | 370 |
| Benzo[a]pyrene | | 62 | J | 23 | 370 |
| Benzo[b]fluoranthene | | 89 | J M | 30 | 370 |
| Benzo[g,h,i]perylene | | 55 | J | 18 | 370 |
| Benzo[k]fluoranthene | | 75 | U M | 45 | 370 |
| Benzoic acid | | 750 | U | 370 | 1800 |

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11/5/13

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS0904AA

Lab Sample ID: 280-45026-8
Client Matrix: Solid

% Moisture: 16.1

Date Sampled: 07/29/2013 1450
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5774.D |
| Dilution: | 4.0 | | | Initial Weight/Volume: | 30.5 g |
| Analysis Date: | 08/14/2013 1939 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 150 | U | 47 | 1500 |
| Bis(2-chloroethoxy)methane | | 310 | U | 110 | 1500 |
| Bis(2-chloroethyl)ether | | 150 | U | 78 | 1500 |
| Bis(2-ethylhexyl) phthalate | | 310 | U | 220 | 1500 |
| Butyl benzyl phthalate | | 310 | U | 200 | 1500 |
| Caprolactam | | 1500 | U | 500 | 7500 |
| Carbazole | | 310 | U | 170 | 1500 |
| Chrysene | | 630 | J | 130 | 1500 |
| Dibenz(a,h)anthracene | | 150 | U | 89 | 1500 |
| Dibenzofuran | | 150 | U | 94 | 1500 |
| Diethyl phthalate | | 150 | U | 120 | 3100 |
| Dimethyl phthalate | | 400 | J | 110 | 1500 |
| Di-n-butyl phthalate | | 150 | U | 140 | 1500 |
| Di-n-octyl phthalate | | 310 | U | 68 | 1500 |
| Fluoranthene | | 1000 | J | 170 | 1500 |
| Fluorene | | 150 | U | 84 | 1500 |
| Hexachlorobenzene | | 310 | U | 140 | 1500 |
| Hexachlorobutadiene | | 310 | U | 47 | 1500 |
| Hexachlorocyclopentadiene | | 310 | U | 230 | 8000 |
| Hexachloroethane | | 150 | U | 100 | 1500 |
| Indeno[1,2,3-cd]pyrene | | 260 | J | 100 | 1500 |
| Isophorone | | 150 | U | 80 | 1500 |
| Naphthalene | | 310 | U | 150 | 1500 |
| Nitrobenzene | | 150 | U | 100 | 1500 |
| N-Nitrosodimethylamine | | 310 | U | 170 | 2400 |
| N-Nitrosodi-n-propylamine | | 310 | U | 150 | 1500 |
| N-Nitrosodiphenylamine | | 150 | U | 98 | 1500 |
| N-Nitrosopyrrolidine | | 610 | U | 300 | 1500 |
| Pentachlorophenol | | 3100 | U | 1500 | 7500 |
| Phenanthrene | | 810 | J | 80 | 1500 |
| Phenol | | 150 | U | 84 | 1500 |
| Pyrene | | 1200 | J | 57 | 1900 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 80 | D | 35 - 125 |
| 2-Fluorobiphenyl | 85 | D | 45 - 105 |
| 2-Fluorophenol (Surr) | 78 | D | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | D | 35 - 100 |
| Phenol-d5 (Surr) | 84 | D | 40 - 100 |
| Terphenyl-d14 (Surr) | 89 | D | 30 - 125 |

## METHOD / ANALYST SUMMARY

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8270D/DoD | Hoffman, Michael G | MGH |
| SW846 6010C | Harre, John K | JKH |
| EPA Moisture | McKittrick, Ian B | IBM |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Client Sample ID:** B255SCS0904AA

Lab Sample ID: 280-45026-8
Client Matrix: Solid

% Moisture: 16.1

Date Sampled: 07/29/2013 1450
Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5774.D |
| Dilution: | 4.0 | | | Initial Weight/Volume: | 30.5 g |
| Analysis Date: | 08/14/2013 1939 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 780 | U | 230 | 1500 |
| 1,2,4,5-Tetrachlorobenzene | | 310 | U | 230 | 1500 |
| 1,2,4-Trichlorobenzene | | 150 | U | 130 | 1500 |
| 1,2-Dichlorobenzene | | 150 | U | 100 | 1500 |
| 1,2-Diphenylhydrazine | | 150 | U | 100 | 1500 |
| 1,3-Dichlorobenzene | | 150 | U | 56 | 1500 |
| 1,4-Dichlorobenzene | | 150 | U | 64 | 1500 |
| 2,2'-oxybis[1-chloropropane] | | 150 | U | 110 | 1500 |
| 2,3,4,6-Tetrachlorophenol | | 780 | U | 640 | 7500 |
| 2,4,5-Trichlorophenol | | 610 | U | 47 | 1500 |
| 2,4,6-Trichlorophenol | | 310 | U | 47 | 1500 |
| 2,4-Dichlorophenol | | 310 | U | 47 | 1500 |
| 2,4-Dimethylphenol | | 610 | U | 310 | 1500 |
| 2,4-Dinitrophenol | | 3100 | U | 1600 | 7500 |
| 2,4-Dinitrotoluene | | 610 | U | 310 | 1500 |
| 2,6-Dichlorophenol | | 610 | U | 320 | 1500 |
| 2,6-Dinitrotoluene | | 310 | U | 130 | 1500 |
| 2-Chloronaphthalene | | 150 | U | 47 | 1500 |
| 2-Chlorophenol | | 150 | U | 98 | 1500 |
| 2-Methylnaphthalene | | 150 | U | 89 | 1500 |
| 2-Methylphenol | | 150 | U | 61 | 1500 |
| 2-Nitroaniline | | 310 | U | 230 | 7500 |
| 2-Nitrophenol | | 310 | U | 47 | 1500 |
| 3 & 4 Methylphenol | | 310 | U | 150 | 1500 |
| 3,3'-Dichlorobenzidine | | 1500 | U | 420 | 7500 |
| 3-Nitroaniline | | 620 | U | 340 | 7500 |
| 4,6-Dinitro-2-methylphenol | | 3100 | U | 1500 | 7500 |
| 4-Bromophenyl phenyl ether | | 150 | U | 89 | 1500 |
| 4-Chloro-3-methylphenol | | 610 | U | 310 | 1500 |
| 4-Chloroaniline | | 610 | U | 380 | 1500 |
| 4-Chlorophenyl phenyl ether | | 310 | U | 98 | 1500 |
| 4-Nitroaniline | | 610 | U | 340 | 7500 |
| 4-Nitrophenol | | 1500 | U | 450 | 7500 |
| Acenaphthene | | 80 | U | 48 | 1500 |
| Acenaphthylene | | 110 | J | 80 | 1500 |
| Acetophenone | | 150 | U | 94 | 1500 |
| Anthracene | | 160 | J | 80 | 1500 |
| Atrazine | | 610 | U | 170 | 1500 |
| Benzaldehyde | | 310 | U | 180 | 1500 |
| Benzidine | | 19000 | U | 4600 | 19000 |
| Benzo[a]anthracene | | 530 | J | 94 | 1500 |
| Benzo[a]pyrene | | 430 | J | 94 | 1500 |
| Benzo[b]fluoranthene | | 680 | J | 120 | 1500 |
| Benzo[g,h,i]perylene | | 250 | J | 75 | 1500 |
| Benzo[k]fluoranthene | | 310 | U | 190 | 1500 |
| Benzoic acid | | 3100 | U | 1500 | 7500 |

(280-45026-8), B255SCS0908AA (280-45026-9), B255SCS0912AA (280-45026-10), B255SCS1004AA (280-45026-11), B255SCS1008AA (280-45026-12), B255SCS1012AA (280-45026-13), B255SCS1104AA (280-45026-14), B255SCS1108AA (280-45026-15), B255SCS1112AA (280-45026-16), and B255SCS1116AA (280-45026-17) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 08/13/2013 and 08/15/2013.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

# CASE NARRATIVE
## Client: FPM Remediations Inc
## Project: Griffiss AFB DP013 Bldg 255
## Report Number: 280-45026-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**
Seventeen samples were received on 08/01/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.1°C, 3.2°C, and 5.2°C.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**
Samples B255SCS0904AA (280-45026-8), B255SCS0908AA (280-45026-9), B255SCS0912AA (280-45026-10), B255SCS1004AA (280-45026-11), B255SCS1008AA (280-45026-12), and B255SCS1012AA (280-45026-13) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/09/2013 and analyzed on 08/14/2013.

Dimethyl phthalate was detected in method blank MB 280-186667/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

Sample B255SCS0904AA (280-45026-8) required a dilution prior to analysis due to the nature of the sample matrix (viscosity of the extract). The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP)**
Samples B255SCS0704AA (280-45026-1), B255SCS0704AC (280-45026-2), B255SCS0708AA (280-45026-3), B255SCS0712AA (280-45026-4), B255SCS0804AA (280-45026-5), B255SCS0808AA (280-45026-6), B255SCS0812AA (280-45026-7), B255SCS0904AA (280-45026-8), B255SCS0908AA (280-45026-9), B255SCS0912AA (280-45026-10), B255SCS1104AA (280-45026-14), B255SCS1108AA (280-45026-15), B255SCS1112AA (280-45026-16), and B255SCS1116AA (280-45026-17) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/14/2013 and analyzed on 08/15/2013.

Samples B255SCS0708AA (280-45026-3), B255SCS0908AA (280-45026-9), B255SCS1112AA (280-45026-16), and B255SCS1116AA (280-45026-17) required dilutions prior to analysis to bring the concentration of Manganese within the daily calibration range. Internal Standard failures occurred at a 1x dilution. The reporting limits have been adjusted accordingly.

Sample B255SCS0912AA (280-45026-10) required a dilution prior to analysis due to the nature of the sample matrix. The reporting limits have been adjusted accordingly.

The CCVL associated with prep batch 280-186959 recovered above the established control criteria for Aluminum. The associated samples contained detections for this analyte greater than 10x the RL, the Method Blank was non-detect for Aluminum, and the LCS recovered within the established control limits; therefore the data have been reported.

The analysis of the ICSA solution, which is used as the interference check standard, shows results for Cadmium, Chromium, Copper, Manganese, and Strontium at a level greater than the LOD for prep batch 280-186959. We believe that the solution contains trace impurities of these elements and that the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for these elements.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**
Samples B255SCS0704AA (280-45026-1), B255SCS0704AC (280-45026-2), B255SCS0708AA (280-45026-3), B255SCS0712AA (280-45026-4), B255SCS0804AA (280-45026-5), B255SCS0808AA (280-45026-6), B255SCS0812AA (280-45026-7), B255SCS0904AA

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-1** | **B255SCS0704AA** | | | | | |
| Aluminum | | 3700 | | 54 | mg/Kg | 6010C |
| Arsenic | | 2.4 | J | 2.7 | mg/Kg | 6010C |
| Barium | | 12 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.17 | J | 0.54 | mg/Kg | 6010C |
| Boron | | 1.4 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.083 | J Q | 0.54 | mg/Kg | 6010C |
| Calcium | | 1900 | | 110 | mg/Kg | 6010C |
| Chromium | | 4.2 | Q | 3.8 | mg/Kg | 6010C |
| Cobalt | | 3.2 | | 1.1 | mg/Kg | 6010C |
| Copper | | 8.5 | Q | 5.4 | mg/Kg | 6010C |
| Iron | | 7900 | | 86 | mg/Kg | 6010C |
| Lead | | 2.2 | | 0.97 | mg/Kg | 6010C |
| Magnesium | | 1700 | | 32 | mg/Kg | 6010C |
| Manganese | | 270 | Q | 4.8 | mg/Kg | 6010C |
| Nickel | | 6.4 | | 4.3 | mg/Kg | 6010C |
| Potassium | | 540 | | 320 | mg/Kg | 6010C |
| Strontium | | 5.6 | Q | 1.6 | mg/Kg | 6010C |
| Vanadium | | 6.7 | | 2.1 | mg/Kg | 6010C |
| Zinc | | 15 | | 8.6 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## SAMPLE SUMMARY

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 280-45026-1 | B255SCS0704AA | Solid | 07/29/2013 1550 | 08/01/2013 0930 |
| 280-45026-2 | B255SCS0704AC | Solid | 07/29/2013 1550 | 08/01/2013 0930 |
| 280-45026-3 | B255SCS0708AA | Solid | 07/29/2013 1554 | 08/01/2013 0930 |
| 280-45026-4 | B255SCS0712AA | Solid | 07/29/2013 1600 | 08/01/2013 0930 |
| 280-45026-5 | B255SCS0804AA | Solid | 07/29/2013 1530 | 08/01/2013 0930 |
| 280-45026-6 | B255SCS0808AA | Solid | 07/29/2013 1535 | 08/01/2013 0930 |
| 280-45026-7 | B255SCS0812AA | Solid | 07/29/2013 1540 | 08/01/2013 0930 |
| 280-45026-8 | B255SCS0904AA | Solid | 07/29/2013 1450 | 08/01/2013 0930 |
| 280-45026-9 | B255SCS0908AA | Solid | 07/29/2013 1500 | 08/01/2013 0930 |
| 280-45026-10 | B255SCS0912AA | Solid | 07/29/2013 1505 | 08/01/2013 0930 |
| 280-45026-11 | B255SCS1004AA | Solid | 07/29/2013 1510 | 08/01/2013 0930 |
| 280-45026-12 | B255SCS1008AA | Solid | 07/29/2013 1515 | 08/01/2013 0930 |
| 280-45026-13 | B255SCS1012AA | Solid | 07/29/2013 1520 | 08/01/2013 0930 |
| 280-45026-14 | B255SCS1104AA | Solid | 07/29/2013 1345 | 08/01/2013 0930 |
| 280-45026-15 | B255SCS1108AA | Solid | 07/29/2013 1347 | 08/01/2013 0930 |
| 280-45026-16 | B255SCS1112AA | Solid | 07/29/2013 1359 | 08/01/2013 0930 |
| 280-45026-17 | B255SCS1116AA | Solid | 07/29/2013 1430 | 08/01/2013 0930 |

# Appendix E
# Raw Laboratory Results

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 280-42039-1

Job Description: Griffiss AFB DP013 Bldg 255

For:
FPM Remediations Inc
584 Phoenix Drive
Rome, NY 13441

Attention: Daniel Baldyga

M. Elaine Walker

Approved for release.
Elaine Walker
Project Manager I
5/30/2013 12:37 PM

Elaine Walker, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0156
elaine.walker@testamericainc.com
05/30/2013

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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# CASE NARRATIVE
# Client: FPM Remediations Inc
# Project: Griffiss AFB DP013 Bldg 255
# Report Number: 280-42039-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

Thirteen samples were received on 05/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.1ºC and 0.4ºC.

Per email from the client on 05/10/2013, the equipment blank received for pesticides analysis was not logged with this delivery group as there were no pesticide field samples received for this site. The pesticide equipment blank (050613AE) was logged with the samples received for DP012 Building 301, reported under a separate delivery group.

**VOLATILE ORGANIC COMPOUNDS (GC-MS) - SOIL**

Samples B255SCS0104AA (280-42039-1), B255SCS0108AA (280-42039-2), B255SCS0112AA (280-42039-3), B255SCS0204AA (280-42039-4), B255SCS0208AA (280-42039-5), B255SCS0212AA (280-42039-6), B255SCS0304AA (280-42039-7), B255SCS0308AA (280-42039-8), B255SCS0312AA (280-42039-9), and B255SCS0104AC (280-42039-10) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/17/2013.

Acetone, Carbon Disulfide, and Methylene Chloride were detected in method blank MB 280-174775/1-A at levels that were above the method detection limits but below the reporting limits. The values should be considered estimates, and have been flagged “J”. However, because the result concentrations were less than ½ the respective reporting limits, no corrective action was necessary.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

**VOLATILE ORGANIC COMPOUNDS (GC-MS) - WATER**

Samples 050613AE (280-42039-11), 050613AF (280-42039-12), and 050613AR (280-42039-13) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/11/2013, 05/14/2013 and 05/15/2013.

Methylene Chloride was detected in method blank MB 280-173812/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

Naphthalene was detected in method blank MB 280-174063/35 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP) - SOIL**

Samples B255SCS0104AA (280-42039-1), B255SCS0108AA (280-42039-2), B255SCS0112AA (280-42039-3), B255SCS0204AA (280-42039-4), B255SCS0208AA (280-42039-5), B255SCS0212AA (280-42039-6), B255SCS0304AA (280-42039-7), B255SCS0308AA (280-42039-8), B255SCS0312AA (280-42039-9), and B255SCS0104AC (280-42039-10) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/10/2013 and analyzed on 05/15/2013, 05/16/2013 and 05/17/2013.

Aluminum, Barium, and Boron were detected in method blank MB 280-173661/1-A at levels that were above the method detection limits but below the reporting limits. The values should be considered estimates, and have been flagged “J”. However, because the result concentrations were less than ½ the respective reporting limits, no corrective action was necessary.

Sample B255SCS0312AA (280-42039-9) required a dilution prior to analysis. The reporting limits have been adjusted accordingly.

The interference check standard solution (ICSA) associated with prep batch 280-173661 showed results for Chromium, Copper, Manganese, and Vanadium at a level greater than the limit of detection (LOD). It is believed that the solution contains trace impurities of these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for these elements.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP) - WATER**

Sample 050613AE (280-42039-11) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The sample was prepared on 05/17/2013 and 05/23/2013 and analyzed on 05/18/2013, 05/21/2013 and 05/23/2013.

Manganese was detected in method blank MB 280-174378/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

Iron was detected in method blank MB 280-175463/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

The interference check standard solution (ICSA) associated with prep batch 280-174378 showed results for one or more elements at a level greater than the limit of detection (LOD). The initial ICSA results were greater than the LOD for Chromium, Copper, Manganese, and Vanadium. It is believed that the solution contains trace impurities of these elements and that the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for these elements.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples B255SCS0104AA (280-42039-1), B255SCS0108AA (280-42039-2), B255SCS0112AA (280-42039-3), B255SCS0204AA (280-42039-4), B255SCS0208AA (280-42039-5), B255SCS0212AA (280-42039-6), B255SCS0304AA (280-42039-7), B255SCS0308AA (280-42039-8), B255SCS0312AA (280-42039-9), and B255SCS0104AC (280-42039-10) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 05/24/2013.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Analysis Batch Number: 173382

Lab Sample ID: STD02 280-173382/40 IC Client Sample ID:

Date Analyzed: 05/08/13 23:02 Lab File ID: Z4066.D GC Column: DB-624 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Ethyl methacrylate | 8.70 | Split Peak | tinkhams | 05/08/13 23:29 |

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Analysis Batch Number: 173382

Lab Sample ID: ICV 280-173382/38 Client Sample ID:

Date Analyzed: 05/08/13 22:17 Lab File ID: Z4064.D GC Column: DB-624 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.14 | Split Peak | tinkhams | 05/10/13 01:57 |

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Analysis Batch Number: 173382

Lab Sample ID: STD02 280-173382/40 IC Client Sample ID:

Date Analyzed: 05/08/13 23:02 Lab File ID: Z4066.D GC Column: DB-624 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Ethyl methacrylate | 8.70 | Split Peak | tinkhams | 05/08/13 23:29 |

5/29/13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Analysis Batch Number: 173382

Lab Sample ID: ICV 280-173382/38 Client Sample ID:

Date Analyzed: 05/08/13 22:17 Lab File ID: Z4064.D GC Column: DB-624 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.14 | Split Peak | tinkhams | 05/10/13 01:57 |

5/29/13

## SAMPLE SUMMARY

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 280-42039-1 | B255SCS0104AA | Solid | 05/06/2013 1440 | 05/08/2013 0915 |
| 280-42039-2 | B255SCS0108AA | Solid | 05/06/2013 1455 | 05/08/2013 0915 |
| 280-42039-3 | B255SCS0112AA | Solid | 05/06/2013 1500 | 05/08/2013 0915 |
| 280-42039-4 | B255SCS0204AA | Solid | 05/06/2013 1515 | 05/08/2013 0915 |
| 280-42039-5 | B255SCS0208AA | Solid | 05/06/2013 1519 | 05/08/2013 0915 |
| 280-42039-6 | B255SCS0212AA | Solid | 05/06/2013 1525 | 05/08/2013 0915 |
| 280-42039-7 | B255SCS0304AA | Solid | 05/06/2013 1545 | 05/08/2013 0915 |
| 280-42039-8 | B255SCS0308AA | Solid | 05/06/2013 1552 | 05/08/2013 0915 |
| 280-42039-9 | B255SCS0312AA | Solid | 05/06/2013 1559 | 05/08/2013 0915 |
| 280-42039-10FD | B255SCS0104AC | Solid | 05/06/2013 1442 | 05/08/2013 0915 |
| 280-42039-11EB | 050613AE | Water | 05/06/2013 1630 | 05/08/2013 0915 |
| 280-42039-12FB | 050613AF | Water | 05/06/2013 1530 | 05/08/2013 0915 |
| 280-42039-13TB | 050613AR | Water | 05/06/2013 0900 | 05/08/2013 0915 |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-1** | **B255SCS0104AA** | | | | | |
| Methylene Chloride | | 4.4 | J | 5.3 | ug/Kg | 8260B/DoD |
| Aluminum | | 9000 | | 47 | mg/Kg | 6010C |
| Arsenic | | 4.8 | | 2.4 | mg/Kg | 6010C |
| Barium | | 46 | | 1.9 | mg/Kg | 6010C |
| Beryllium | | 0.41 | J | 0.47 | mg/Kg | 6010C |
| Boron | | 1.6 | J | 9.5 | mg/Kg | 6010C |
| Cadmium | | 0.18 | J | 0.47 | mg/Kg | 6010C |
| Calcium | | 7300 | | 95 | mg/Kg | 6010C |
| Chromium | | 10 | Q | 3.3 | mg/Kg | 6010C |
| Cobalt | | 7.6 | | 0.95 | mg/Kg | 6010C |
| Copper | | 33 | Q | 4.7 | mg/Kg | 6010C |
| Iron | | 21000 | | 76 | mg/Kg | 6010C |
| Lead | | 6.8 | | 0.85 | mg/Kg | 6010C |
| Magnesium | | 3700 | | 28 | mg/Kg | 6010C |
| Manganese | | 1300 | Q | 4.3 | mg/Kg | 6010C |
| Molybdenum | | 0.29 | J | 2.4 | mg/Kg | 6010C |
| Nickel | | 18 | | 3.8 | mg/Kg | 6010C |
| Potassium | | 990 | | 280 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 1.9 | mg/Kg | 6010C |
| Zinc | | 43 | | 7.6 | mg/Kg | 6010C |
| Percent Moisture | | 8.8 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-2** | **B255SCS0108AA** | | | | | |
| Methylene Chloride | | 3.8 | J | 5.5 | ug/Kg | 8260B/DoD |
| Aluminum | | 11000 | | 52 | mg/Kg | 6010C |
| Arsenic | | 4.0 | | 2.6 | mg/Kg | 6010C |
| Barium | | 86 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.41 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.2 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.23 | J | 0.52 | mg/Kg | 6010C |
| Calcium | | 3700 | | 100 | mg/Kg | 6010C |
| Chromium | | 13 | Q | 3.7 | mg/Kg | 6010C |
| Cobalt | | 6.2 | | 1.0 | mg/Kg | 6010C |
| Copper | | 15 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 21000 | | 84 | mg/Kg | 6010C |
| Lead | | 9.4 | | 0.94 | mg/Kg | 6010C |
| Magnesium | | 2200 | | 31 | mg/Kg | 6010C |
| Manganese | | 1500 | Q | 4.7 | mg/Kg | 6010C |
| Molybdenum | | 1.0 | J | 2.6 | mg/Kg | 6010C |
| Nickel | | 11 | | 4.2 | mg/Kg | 6010C |
| Potassium | | 850 | | 310 | mg/Kg | 6010C |
| Silver | | 0.19 | J | 1.6 | mg/Kg | 6010C |
| Sodium | | 170 | J | 520 | mg/Kg | 6010C |
| Vanadium | | 24 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 52 | | 8.4 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-3** | **B255SCS0112AA** | | | | | |
| Methylene Chloride | | 3.7 | J | 5.2 | ug/Kg | 8260B/DoD |
| Aluminum | | 10000 | | 52 | mg/Kg | 6010C |
| Arsenic | | 3.9 | | 2.6 | mg/Kg | 6010C |
| Barium | | 48 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.49 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.7 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.15 | J | 0.52 | mg/Kg | 6010C |
| Calcium | | 2400 | | 100 | mg/Kg | 6010C |
| Chromium | | 15 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 6.9 | | 1.0 | mg/Kg | 6010C |
| Copper | | 29 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 20000 | | 83 | mg/Kg | 6010C |
| Lead | | 5.6 | | 0.93 | mg/Kg | 6010C |
| Magnesium | | 3900 | | 31 | mg/Kg | 6010C |
| Manganese | | 1000 | Q | 4.7 | mg/Kg | 6010C |
| Molybdenum | | 1.0 | J | 2.6 | mg/Kg | 6010C |
| Nickel | | 16 | | 4.2 | mg/Kg | 6010C |
| Potassium | | 1200 | | 310 | mg/Kg | 6010C |
| Sodium | | 93 | J | 520 | mg/Kg | 6010C |
| Vanadium | | 17 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 50 | | 8.3 | mg/Kg | 6010C |
| Percent Moisture | | 9.9 | | 0.10 | % | Moisture |
| Percent Solids | | 90 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-4** | **B255SCS0204AA** | | | | | |
| Methylene Chloride | | 4.2 | J | 5.3 | ug/Kg | 8260B/DoD |
| Aluminum | | 8400 | | 51 | mg/Kg | 6010C |
| Arsenic | | 5.5 | | 2.6 | mg/Kg | 6010C |
| Barium | | 34 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.46 | J | 0.51 | mg/Kg | 6010C |
| Boron | | 2.5 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.23 | J | 0.51 | mg/Kg | 6010C |
| Calcium | | 6800 | | 100 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 7.1 | | 1.0 | mg/Kg | 6010C |
| Copper | | 27 | Q | 5.1 | mg/Kg | 6010C |
| Iron | | 17000 | | 82 | mg/Kg | 6010C |
| Lead | | 19 | | 0.92 | mg/Kg | 6010C |
| Magnesium | | 4100 | | 31 | mg/Kg | 6010C |
| Manganese | | 700 | Q | 4.6 | mg/Kg | 6010C |
| Molybdenum | | 0.32 | J | 2.6 | mg/Kg | 6010C |
| Nickel | | 16 | | 4.1 | mg/Kg | 6010C |
| Potassium | | 1300 | | 310 | mg/Kg | 6010C |
| Vanadium | | 17 | Q | 2.0 | mg/Kg | 6010C |
| Zinc | | 50 | | 8.2 | mg/Kg | 6010C |
| Percent Moisture | | 8.4 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-5** | **B255SCS0208AA** | | | | | |
| Methylene Chloride | | 4.7 | J | 5.7 | ug/Kg | 8260B/DoD |
| Aluminum | | 11000 | | 56 | mg/Kg | 6010C |
| Arsenic | | 3.3 | | 2.8 | mg/Kg | 6010C |
| Barium | | 66 | | 2.3 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.56 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.31 | J | 0.56 | mg/Kg | 6010C |
| Calcium | | 5400 | | 110 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 6.7 | | 1.1 | mg/Kg | 6010C |
| Copper | | 19 | Q | 5.6 | mg/Kg | 6010C |
| Iron | | 17000 | | 90 | mg/Kg | 6010C |
| Lead | | 14 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 3300 | | 34 | mg/Kg | 6010C |
| Manganese | | 950 | Q | 5.1 | mg/Kg | 6010C |
| Molybdenum | | 0.49 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 12 | | 4.5 | mg/Kg | 6010C |
| Potassium | | 990 | | 340 | mg/Kg | 6010C |
| Vanadium | | 21 | Q | 2.3 | mg/Kg | 6010C |
| Zinc | | 58 | | 9.0 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-6** | **B255SCS0212AA** | | | | | |
| Methylene Chloride | | 4.4 | J | 5.4 | ug/Kg | 8260B/DoD |
| Aluminum | | 9000 | | 54 | mg/Kg | 6010C |
| Arsenic | | 3.4 | | 2.7 | mg/Kg | 6010C |
| Barium | | 37 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.54 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.13 | J | 0.54 | mg/Kg | 6010C |
| Calcium | | 2000 | | 110 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.8 | mg/Kg | 6010C |
| Cobalt | | 5.8 | | 1.1 | mg/Kg | 6010C |
| Copper | | 27 | Q | 5.4 | mg/Kg | 6010C |
| Iron | | 18000 | | 86 | mg/Kg | 6010C |
| Lead | | 5.7 | | 0.97 | mg/Kg | 6010C |
| Magnesium | | 3700 | | 32 | mg/Kg | 6010C |
| Manganese | | 960 | Q | 4.8 | mg/Kg | 6010C |
| Molybdenum | | 0.63 | J | 2.7 | mg/Kg | 6010C |
| Nickel | | 14 | | 4.3 | mg/Kg | 6010C |
| Potassium | | 1100 | | 320 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 48 | | 8.6 | mg/Kg | 6010C |
| Percent Moisture | | 9.5 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-7** | **B255SCS0304AA** | | | | | |
| Methylene Chloride | | 3.5 | J | 5.3 | ug/Kg | 8260B/DoD |
| Aluminum | | 7600 | | 50 | mg/Kg | 6010C |
| Arsenic | | 3.9 | | 2.5 | mg/Kg | 6010C |
| Barium | | 51 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.37 | J | 0.50 | mg/Kg | 6010C |
| Boron | | 3.0 | J | 9.9 | mg/Kg | 6010C |
| Cadmium | | 0.25 | J | 0.50 | mg/Kg | 6010C |
| Calcium | | 10000 | | 99 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.5 | mg/Kg | 6010C |
| Cobalt | | 5.9 | | 0.99 | mg/Kg | 6010C |
| Copper | | 25 | Q | 5.0 | mg/Kg | 6010C |
| Iron | | 14000 | | 79 | mg/Kg | 6010C |
| Lead | | 36 | | 0.89 | mg/Kg | 6010C |
| Magnesium | | 3100 | | 30 | mg/Kg | 6010C |
| Manganese | | 570 | Q | 4.5 | mg/Kg | 6010C |
| Nickel | | 13 | | 4.0 | mg/Kg | 6010C |
| Potassium | | 1100 | | 300 | mg/Kg | 6010C |
| Sodium | | 62 | J | 500 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 2.0 | mg/Kg | 6010C |
| Zinc | | 54 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 8.4 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-8** | **B255SCS0308AA** | | | | | |
| Methylene Chloride | | 4.1 | J | 5.5 | ug/Kg | 8260B/DoD |
| Aluminum | | 12000 | | 49 | mg/Kg | 6010C |
| Arsenic | | 4.1 | | 2.5 | mg/Kg | 6010C |
| Barium | | 35 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.48 | J | 0.49 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 9.8 | mg/Kg | 6010C |
| Cadmium | | 0.20 | J | 0.49 | mg/Kg | 6010C |
| Calcium | | 8500 | | 98 | mg/Kg | 6010C |
| Chromium | | 15 | Q | 3.4 | mg/Kg | 6010C |
| Cobalt | | 6.9 | | 0.98 | mg/Kg | 6010C |
| Copper | | 29 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 21000 | | 79 | mg/Kg | 6010C |
| Lead | | 6.9 | | 0.88 | mg/Kg | 6010C |
| Magnesium | | 4500 | | 29 | mg/Kg | 6010C |
| Manganese | | 900 | Q | 4.4 | mg/Kg | 6010C |
| Molybdenum | | 0.80 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 19 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 1100 | | 290 | mg/Kg | 6010C |
| Vanadium | | 20 | Q | 2.0 | mg/Kg | 6010C |
| Zinc | | 54 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 11 | | 0.10 | % | Moisture |
| Percent Solids | | 89 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-9** | **B255SCS0312AA** | | | | | |
| Methylene Chloride | | 4.1 | J | 5.4 | ug/Kg | 8260B/DoD |
| Aluminum | | 9000 | | 46 | mg/Kg | 6010C |
| Arsenic | | 3.9 | | 2.3 | mg/Kg | 6010C |
| Barium | | 38 | | 1.8 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.46 | mg/Kg | 6010C |
| Boron | | 2.1 | J | 9.1 | mg/Kg | 6010C |
| Cadmium | | 0.12 | J | 0.46 | mg/Kg | 6010C |
| Calcium | | 9000 | | 91 | mg/Kg | 6010C |
| Chromium | | 12 | Q | 3.2 | mg/Kg | 6010C |
| Cobalt | | 6.5 | | 0.91 | mg/Kg | 6010C |
| Copper | | 34 | Q | 4.6 | mg/Kg | 6010C |
| Iron | | 18000 | | 73 | mg/Kg | 6010C |
| Lead | | 6.1 | | 0.82 | mg/Kg | 6010C |
| Magnesium | | 4200 | | 27 | mg/Kg | 6010C |
| Manganese | | 850 | Q | 4.1 | mg/Kg | 6010C |
| Molybdenum | | 0.60 | J | 2.3 | mg/Kg | 6010C |
| Nickel | | 15 | | 3.7 | mg/Kg | 6010C |
| Potassium | | 1100 | | 270 | mg/Kg | 6010C |
| Vanadium | | 16 | Q | 1.8 | mg/Kg | 6010C |
| Zinc | | 47 | | 7.3 | mg/Kg | 6010C |
| Percent Moisture | | 8.8 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-42039-10FD** | **B255SCS0104AC** | | | | | |
| Methylene Chloride | | 3.6 | J | 5.4 | ug/Kg | 8260B/DoD |
| Aluminum | | 9800 | | 52 | mg/Kg | 6010C |
| Arsenic | | 3.5 | | 2.6 | mg/Kg | 6010C |
| Barium | | 33 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.39 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.7 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.17 | J | 0.52 | mg/Kg | 6010C |
| Calcium | | 2000 | | 100 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 5.6 | | 1.0 | mg/Kg | 6010C |
| Copper | | 21 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 17000 | | 83 | mg/Kg | 6010C |
| Lead | | 9.4 | | 0.93 | mg/Kg | 6010C |
| Magnesium | | 3400 | | 31 | mg/Kg | 6010C |
| Manganese | | 540 | Q | 4.7 | mg/Kg | 6010C |
| Nickel | | 14 | | 4.1 | mg/Kg | 6010C |
| Potassium | | 910 | | 310 | mg/Kg | 6010C |
| Vanadium | | 17 | Q | 2.1 | mg/Kg | 6010C |
| Zinc | | 48 | | 8.3 | mg/Kg | 6010C |
| Percent Moisture | | 9.0 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |
| **280-42039-11EB** | **050613AE** | | | | | |
| Barium | | 0.82 | J | 10 | ug/L | 6010C |
| Iron | | 29 | J | 100 | ug/L | 6010C |
| Manganese | | 0.69 | J Q | 10 | ug/L | 6010C |

# METHOD SUMMARY

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds (GC/MS) | TAL DEN | SW846 8260B/DoD | |
| Purge and Trap | TAL DEN | | SW846 5030B |
| Metals (ICP) | TAL DEN | SW846 6010C | |
| Preparation, Metals | TAL DEN | | SW846 3050B |
| Percent Moisture | TAL DEN | EPA Moisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL DEN | SW846 8260C | |
| Purge and Trap | TAL DEN | | SW846 5030B |
| Metals (ICP) | TAL DEN | SW846 6010C | |
| Preparation, Total Metals | TAL DEN | | SW846 3010A |

**Lab References:**

TAL DEN = TestAmerica Denver

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: FPM Remediations Inc

Job Number: 280-42039-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8260B/DoD | Meier, Greg P | GPM |
| SW846 8260C | Moan, Matthew R | MRM |
| SW846 8260C | Tinkham, Sarah A | SAT |
| SW846 6010C | Bowen, Heidi E | HEB |
| SW846 6010C | Harre, John K | JKH |
| EPA Moisture | Sullivan, Josh | JS |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1 | Date Sampled: 05/06/2013 1440
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8495.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.214 g |
| Analysis Date: | 05/17/2013 1023 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.59 | 5.3 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.55 | 5.3 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.64 | 5.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.47 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.93 | 5.3 |
| 1,1-Dichloroethane | | 0.84 | U | 0.22 | 5.3 |
| 1,1-Dichloroethene | | 1.1 | U | 0.62 | 5.3 |
| 1,1-Dichloropropene | | 1.1 | U | 0.57 | 5.3 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.79 | 5.3 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.85 | 5.3 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.77 | 5.3 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.61 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.63 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.47 | 5.3 |
| 1,2-Dichloroethane | | 1.1 | U | 0.74 | 5.3 |
| 1,2-Dichloropropane | | 1.1 | U | 0.58 | 5.3 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.60 | 5.3 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.50 | 5.3 |
| 1,3-Dichloropropane | | 1.1 | U | 0.54 | 5.3 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.82 | 5.3 |
| 1,4-Dioxane | | 84 | U | 59 | 530 |
| 1-Chlorohexane | | 0.84 | U | 0.66 | 5.3 |
| 2,2-Dichloropropane | | 1.1 | U | 0.46 | 5.3 |
| 2-Butanone (MEK) | | 6.7 | U | 1.9 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.54 | 5.3 |
| 2-Hexanone | | 11 | U | 5.1 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.82 | 5.3 |
| 4-Isopropyltoluene | | 1.1 | U | 0.52 | 5.3 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.6 | 21 |
| Acetone | | 11 | U | 5.7 | 21 |
| Benzene | | 1.1 | U | 0.49 | 5.3 |
| Bromobenzene | | 1.1 | U | 0.52 | 5.3 |
| Bromoform | | 0.84 | U | 0.24 | 5.3 |
| Bromomethane | | 1.1 | U | 0.53 | 11 |
| Carbon disulfide | | 1.1 | U | 0.44 | 5.3 |
| Carbon tetrachloride | | 1.1 | U | 0.66 | 5.3 |
| Chlorobenzene | | 1.1 | U | 0.57 | 5.3 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.3 |
| Chlorodibromomethane | | 1.1 | U | 0.60 | 5.3 |
| Chloroethane | | 1.1 | U | 0.94 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.81 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.59 | 5.3 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.3 |
| Cyclohexane | | 1.7 | U | 0.42 | 5.3 |
| Dibromomethane | | 1.1 | U | 0.88 | 5.3 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1 | Date Sampled: 05/06/2013 1440
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8495.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.214 g |
| Analysis Date: | 05/17/2013 1023 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.84 | U | 0.23 | 5.3 |
| Dichlorodifluoromethane | | 1.1 | U | 0.55 | 11 |
| Ethylbenzene | | 1.1 | U | 0.70 | 5.3 |
| Ethylene Dibromide | | 1.1 | U | 0.55 | 5.3 |
| Hexachlorobutadiene | | 1.1 | U | 0.58 | 5.3 |
| Isopropylbenzene | | 1.1 | U | 0.62 | 5.3 |
| Methyl acetate | | 4.2 | U | 2.9 | 8.9 |
| Methyl tert-butyl ether | | 1.1 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.84 | U | 0.44 | 5.3 |
| Methylene Chloride | | 4.4 | J | 1.7 | 5.3 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.66 | 5.3 |
| n-Butylbenzene | | 1.1 | U | 0.59 | 5.3 |
| N-Propylbenzene | | 1.1 | U | 0.61 | 5.3 |
| o-Xylene | | 1.1 | U | 0.64 | 5.3 |
| sec-Butylbenzene | | 1.1 | U | 0.81 | 5.3 |
| Styrene | | 1.1 | U | 0.66 | 5.3 |
| tert-Butylbenzene | | 1.1 | U | 0.53 | 5.3 |
| Tetrachloroethene | | 1.1 | U | 0.62 | 5.3 |
| Toluene | | 1.1 | U | 0.73 | 5.3 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.41 | 5.3 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.70 | 5.3 |
| Trichloroethene | | 0.84 | U | 0.24 | 5.3 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.3 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 103 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 110 | | 71 - 126 |
| Toluene-d8 (Surr) | 103 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0108AA**

Lab Sample ID: 280-42039-2 | Date Sampled: 05/06/2013 1455
Client Matrix: Solid | % Moisture: 14.8 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8496.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.296 g |
| Analysis Date: | 05/17/2013 1043 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.62 | 5.5 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.58 | 5.5 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.68 | 5.5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 22 | U | 0.50 | 22 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.98 | 5.5 |
| 1,1-Dichloroethane | | 0.89 | U | 0.23 | 5.5 |
| 1,1-Dichloroethene | | 1.1 | U | 0.65 | 5.5 |
| 1,1-Dichloropropene | | 1.1 | U | 0.60 | 5.5 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.83 | 5.5 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.90 | 5.5 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.81 | 5.5 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.64 | 5.5 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.66 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.50 | 5.5 |
| 1,2-Dichloroethane | | 1.1 | U | 0.78 | 5.5 |
| 1,2-Dichloropropane | | 1.1 | U | 0.61 | 5.5 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.63 | 5.5 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.53 | 5.5 |
| 1,3-Dichloropropane | | 1.1 | U | 0.57 | 5.5 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.86 | 5.5 |
| 1,4-Dioxane | | 89 | U | 62 | 550 |
| 1-Chlorohexane | | 0.89 | U | 0.70 | 5.5 |
| 2,2-Dichloropropane | | 1.1 | U | 0.49 | 5.5 |
| 2-Butanone (MEK) | | 7.1 | U | 2.0 | 22 |
| 2-Chlorotoluene | | 1.1 | U | 0.57 | 5.5 |
| 2-Hexanone | | 11 | U | 5.4 | 22 |
| 4-Chlorotoluene | | 1.1 | U | 0.86 | 5.5 |
| 4-Isopropyltoluene | | 1.1 | U | 0.54 | 5.5 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.8 | 22 |
| Acetone | | 11 | U | 6.0 | 22 |
| Benzene | | 1.1 | U | 0.52 | 5.5 |
| Bromobenzene | | 1.1 | U | 0.54 | 5.5 |
| Bromoform | | 0.89 | U | 0.25 | 5.5 |
| Bromomethane | | 1.1 | U | 0.55 | 11 |
| Carbon disulfide | | 1.1 | U | 0.47 | 5.5 |
| Carbon tetrachloride | | 1.1 | U | 0.70 | 5.5 |
| Chlorobenzene | | 1.1 | U | 0.60 | 5.5 |
| Chlorobromomethane | | 1.1 | U | 0.33 | 5.5 |
| Chlorodibromomethane | | 1.1 | U | 0.63 | 5.5 |
| Chloroethane | | 1.1 | U | 0.99 | 11 |
| Chloroform | | 1.1 | U | 0.32 | 11 |
| Chloromethane | | 1.1 | U | 0.85 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.62 | 5.5 |
| cis-1,3-Dichloropropene | | 2.2 | U | 1.4 | 5.5 |
| Cyclohexane | | 1.8 | U | 0.44 | 5.5 |
| Dibromomethane | | 1.1 | U | 0.93 | 5.5 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0108AA**

Lab Sample ID: 280-42039-2 | Date Sampled: 05/06/2013 1455
Client Matrix: Solid | % Moisture: 14.8 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8496.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.296 g |
| Analysis Date: | 05/17/2013 1043 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.89 | U | 0.24 | 5.5 |
| Dichlorodifluoromethane | | 1.1 | U | 0.58 | 11 |
| Ethylbenzene | | 1.1 | U | 0.74 | 5.5 |
| Ethylene Dibromide | | 1.1 | U | 0.58 | 5.5 |
| Hexachlorobutadiene | | 1.1 | U | 0.61 | 5.5 |
| Isopropylbenzene | | 1.1 | U | 0.65 | 5.5 |
| Methyl acetate | | 4.4 | U | 3.0 | 9.4 |
| Methyl tert-butyl ether | | 1.1 | U | 0.38 | 22 |
| Methylcyclohexane | | 0.89 | U | 0.47 | 5.5 |
| Methylene Chloride | | 3.8 | J | 1.8 | 5.5 |
| m-Xylene & p-Xylene | | 2.2 | U | 1.2 | 3.5 |
| Naphthalene | | 1.1 | U | 0.70 | 5.5 |
| n-Butylbenzene | | 1.1 | U | 0.62 | 5.5 |
| N-Propylbenzene | | 1.1 | U | 0.64 | 5.5 |
| o-Xylene | | 1.1 | U | 0.68 | 5.5 |
| sec-Butylbenzene | | 1.1 | U | 0.85 | 5.5 |
| Styrene | | 1.1 | U | 0.70 | 5.5 |
| tert-Butylbenzene | | 1.1 | U | 0.55 | 5.5 |
| Tetrachloroethene | | 1.1 | U | 0.65 | 5.5 |
| Toluene | | 1.1 | U | 0.76 | 5.5 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.43 | 5.5 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.74 | 5.5 |
| Trichloroethene | | 0.89 | U | 0.25 | 5.5 |
| Trichlorofluoromethane | | 2.2 | U | 1.2 | 11 |
| Vinyl chloride | | 2.2 | U | 1.5 | 5.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 96 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 110 | | 71 - 126 |
| Toluene-d8 (Surr) | 101 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0112AA**

Lab Sample ID: 280-42039-3 | Date Sampled: 05/06/2013 1500
Client Matrix: Solid | % Moisture: 9.9 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8497.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.303 g |
| Analysis Date: | 05/17/2013 1102 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.0 | U | 0.59 | 5.2 |
| 1,1,1-Trichloroethane | | 1.0 | U | 0.54 | 5.2 |
| 1,1,2,2-Tetrachloroethane | | 1.0 | U | 0.64 | 5.2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.47 | 21 |
| 1,1,2-Trichloroethane | | 1.0 | U | 0.92 | 5.2 |
| 1,1-Dichloroethane | | 0.84 | U | 0.22 | 5.2 |
| 1,1-Dichloroethene | | 1.0 | U | 0.62 | 5.2 |
| 1,1-Dichloropropene | | 1.0 | U | 0.57 | 5.2 |
| 1,2,3-Trichlorobenzene | | 1.0 | U | 0.79 | 5.2 |
| 1,2,3-Trichloropropane | | 1.0 | U | 0.85 | 5.2 |
| 1,2,4-Trichlorobenzene | | 1.0 | U | 0.76 | 5.2 |
| 1,2,4-Trimethylbenzene | | 1.0 | U | 0.61 | 5.2 |
| 1,2-Dibromo-3-Chloropropane | | 1.0 | U | 0.63 | 10 |
| 1,2-Dichlorobenzene | | 1.0 | U | 0.47 | 5.2 |
| 1,2-Dichloroethane | | 1.0 | U | 0.73 | 5.2 |
| 1,2-Dichloropropane | | 1.0 | U | 0.58 | 5.2 |
| 1,3,5-Trimethylbenzene | | 1.0 | U | 0.60 | 5.2 |
| 1,3-Dichlorobenzene | | 1.0 | U | 0.50 | 5.2 |
| 1,3-Dichloropropane | | 1.0 | U | 0.53 | 5.2 |
| 1,4-Dichlorobenzene | | 1.0 | U | 0.82 | 5.2 |
| 1,4-Dioxane | | 84 | U | 59 | 520 |
| 1-Chlorohexane | | 0.84 | U | 0.66 | 5.2 |
| 2,2-Dichloropropane | | 1.0 | U | 0.46 | 5.2 |
| 2-Butanone (MEK) | | 6.7 | U | 1.9 | 21 |
| 2-Chlorotoluene | | 1.0 | U | 0.53 | 5.2 |
| 2-Hexanone | | 10 | U | 5.1 | 21 |
| 4-Chlorotoluene | | 1.0 | U | 0.82 | 5.2 |
| 4-Isopropyltoluene | | 1.0 | U | 0.51 | 5.2 |
| 4-Methyl-2-pentanone (MIBK) | | 10 | U | 4.6 | 21 |
| Acetone | | 10 | U | 5.6 | 21 |
| Benzene | | 1.0 | U | 0.49 | 5.2 |
| Bromobenzene | | 1.0 | U | 0.51 | 5.2 |
| Bromoform | | 0.84 | U | 0.24 | 5.2 |
| Bromomethane | | 1.0 | U | 0.52 | 10 |
| Carbon disulfide | | 1.0 | U | 0.44 | 5.2 |
| Carbon tetrachloride | | 1.0 | U | 0.66 | 5.2 |
| Chlorobenzene | | 1.0 | U | 0.57 | 5.2 |
| Chlorobromomethane | | 1.0 | U | 0.31 | 5.2 |
| Chlorodibromomethane | | 1.0 | U | 0.60 | 5.2 |
| Chloroethane | | 1.0 | U | 0.93 | 10 |
| Chloroform | | 1.0 | U | 0.30 | 10 |
| Chloromethane | | 1.0 | U | 0.81 | 10 |
| cis-1,2-Dichloroethene | | 1.0 | U | 0.59 | 5.2 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.2 |
| Cyclohexane | | 1.7 | U | 0.42 | 5.2 |
| Dibromomethane | | 1.0 | U | 0.88 | 5.2 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0112AA**

Lab Sample ID: 280-42039-3 | Date Sampled: 05/06/2013 1500
Client Matrix: Solid | % Moisture: 9.9 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8497.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.303 g |
| Analysis Date: | 05/17/2013 1102 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.84 | U | 0.23 | 5.2 |
| Dichlorodifluoromethane | | 1.0 | U | 0.54 | 10 |
| Ethylbenzene | | 1.0 | U | 0.70 | 5.2 |
| Ethylene Dibromide | | 1.0 | U | 0.54 | 5.2 |
| Hexachlorobutadiene | | 1.0 | U | 0.58 | 5.2 |
| Isopropylbenzene | | 1.0 | U | 0.62 | 5.2 |
| Methyl acetate | | 4.2 | U | 2.9 | 8.9 |
| Methyl tert-butyl ether | | 1.0 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.84 | U | 0.44 | 5.2 |
| Methylene Chloride | | 3.7 | J | 1.7 | 5.2 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.3 |
| Naphthalene | | 1.0 | U | 0.66 | 5.2 |
| n-Butylbenzene | | 1.0 | U | 0.59 | 5.2 |
| N-Propylbenzene | | 1.0 | U | 0.61 | 5.2 |
| o-Xylene | | 1.0 | U | 0.64 | 5.2 |
| sec-Butylbenzene | | 1.0 | U | 0.81 | 5.2 |
| Styrene | | 1.0 | U | 0.66 | 5.2 |
| tert-Butylbenzene | | 1.0 | U | 0.52 | 5.2 |
| Tetrachloroethene | | 1.0 | U | 0.62 | 5.2 |
| Toluene | | 1.0 | U | 0.72 | 5.2 |
| trans-1,2-Dichloroethene | | 1.0 | U | 0.41 | 5.2 |
| trans-1,3-Dichloropropene | | 1.0 | U | 0.70 | 5.2 |
| Trichloroethene | | 0.84 | U | 0.24 | 5.2 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 10 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.2 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 96 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 112 | | 71 - 126 |
| Toluene-d8 (Surr) | 99 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0204AA**

Lab Sample ID: 280-42039-4 | Date Sampled: 05/06/2013 1515
Client Matrix: Solid | % Moisture: 8.4 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8498.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.120 g |
| Analysis Date: | 05/17/2013 1121 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.3 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.55 | 5.3 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.65 | 5.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.48 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.94 | 5.3 |
| 1,1-Dichloroethane | | 0.85 | U | 0.22 | 5.3 |
| 1,1-Dichloroethene | | 1.1 | U | 0.63 | 5.3 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.3 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.80 | 5.3 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.86 | 5.3 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.78 | 5.3 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.62 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.64 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.48 | 5.3 |
| 1,2-Dichloroethane | | 1.1 | U | 0.75 | 5.3 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.3 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.61 | 5.3 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.51 | 5.3 |
| 1,3-Dichloropropane | | 1.1 | U | 0.54 | 5.3 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.83 | 5.3 |
| 1,4-Dioxane | | 85 | U | 60 | 530 |
| 1-Chlorohexane | | 0.85 | U | 0.67 | 5.3 |
| 2,2-Dichloropropane | | 1.1 | U | 0.47 | 5.3 |
| 2-Butanone (MEK) | | 6.8 | U | 2.0 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.54 | 5.3 |
| 2-Hexanone | | 11 | U | 5.2 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.83 | 5.3 |
| 4-Isopropyltoluene | | 1.1 | U | 0.52 | 5.3 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.6 | 21 |
| Acetone | | 11 | U | 5.7 | 21 |
| Benzene | | 1.1 | U | 0.50 | 5.3 |
| Bromobenzene | | 1.1 | U | 0.52 | 5.3 |
| Bromoform | | 0.85 | U | 0.25 | 5.3 |
| Bromomethane | | 1.1 | U | 0.53 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.3 |
| Carbon tetrachloride | | 1.1 | U | 0.67 | 5.3 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.3 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.3 |
| Chlorodibromomethane | | 1.1 | U | 0.61 | 5.3 |
| Chloroethane | | 1.1 | U | 0.95 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.82 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.3 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.3 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.3 |
| Dibromomethane | | 1.1 | U | 0.90 | 5.3 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0204AA**

Lab Sample ID: 280-42039-4 | Date Sampled: 05/06/2013 1515
Client Matrix: Solid | % Moisture: 8.4 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8498.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.120 g |
| Analysis Date: | 05/17/2013 1121 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.85 | U | 0.23 | 5.3 |
| Dichlorodifluoromethane | | 1.1 | U | 0.55 | 11 |
| Ethylbenzene | | 1.1 | U | 0.71 | 5.3 |
| Ethylene Dibromide | | 1.1 | U | 0.55 | 5.3 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.3 |
| Isopropylbenzene | | 1.1 | U | 0.63 | 5.3 |
| Methyl acetate | | 4.3 | U | 2.9 | 9.1 |
| Methyl tert-butyl ether | | 1.1 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.85 | U | 0.45 | 5.3 |
| Methylene Chloride | | 4.2 | J | 1.7 | 5.3 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.67 | 5.3 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.3 |
| N-Propylbenzene | | 1.1 | U | 0.62 | 5.3 |
| o-Xylene | | 1.1 | U | 0.65 | 5.3 |
| sec-Butylbenzene | | 1.1 | U | 0.82 | 5.3 |
| Styrene | | 1.1 | U | 0.67 | 5.3 |
| tert-Butylbenzene | | 1.1 | U | 0.53 | 5.3 |
| Tetrachloroethene | | 1.1 | U | 0.63 | 5.3 |
| Toluene | | 1.1 | U | 0.74 | 5.3 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.3 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.71 | 5.3 |
| Trichloroethene | | 0.85 | U | 0.25 | 5.3 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.3 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 100 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 112 | | 71 - 126 |
| Toluene-d8 (Surr) | 101 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0208AA**

Lab Sample ID: 280-42039-5 | Date Sampled: 05/06/2013 1519
Client Matrix: Solid | % Moisture: 14.7 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8499.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.104 g |
| Analysis Date: | 05/17/2013 1141 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.64 | 5.7 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.60 | 5.7 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.70 | 5.7 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 23 | U | 0.52 | 23 |
| 1,1,2-Trichloroethane | | 1.1 | U | 1.0 | 5.7 |
| 1,1-Dichloroethane | | 0.92 | U | 0.24 | 5.7 |
| 1,1-Dichloroethene | | 1.1 | U | 0.68 | 5.7 |
| 1,1-Dichloropropene | | 1.1 | U | 0.62 | 5.7 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.86 | 5.7 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.93 | 5.7 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.84 | 5.7 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.67 | 5.7 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.69 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.52 | 5.7 |
| 1,2-Dichloroethane | | 1.1 | U | 0.80 | 5.7 |
| 1,2-Dichloropropane | | 1.1 | U | 0.63 | 5.7 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.65 | 5.7 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.55 | 5.7 |
| 1,3-Dichloropropane | | 1.1 | U | 0.59 | 5.7 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.90 | 5.7 |
| 1,4-Dioxane | | 92 | U | 64 | 570 |
| 1-Chlorohexane | | 0.92 | U | 0.72 | 5.7 |
| 2,2-Dichloropropane | | 1.1 | U | 0.51 | 5.7 |
| 2-Butanone (MEK) | | 7.4 | U | 2.1 | 23 |
| 2-Chlorotoluene | | 1.1 | U | 0.59 | 5.7 |
| 2-Hexanone | | 11 | U | 5.6 | 23 |
| 4-Chlorotoluene | | 1.1 | U | 0.90 | 5.7 |
| 4-Isopropyltoluene | | 1.1 | U | 0.56 | 5.7 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 5.0 | 23 |
| Acetone | | 11 | U | 6.2 | 23 |
| Benzene | | 1.1 | U | 0.54 | 5.7 |
| Bromobenzene | | 1.1 | U | 0.56 | 5.7 |
| Bromoform | | 0.92 | U | 0.26 | 5.7 |
| Bromomethane | | 1.1 | U | 0.57 | 11 |
| Carbon disulfide | | 1.1 | U | 0.48 | 5.7 |
| Carbon tetrachloride | | 1.1 | U | 0.72 | 5.7 |
| Chlorobenzene | | 1.1 | U | 0.62 | 5.7 |
| Chlorobromomethane | | 1.1 | U | 0.34 | 5.7 |
| Chlorodibromomethane | | 1.1 | U | 0.65 | 5.7 |
| Chloroethane | | 1.1 | U | 1.0 | 11 |
| Chloroform | | 1.1 | U | 0.33 | 11 |
| Chloromethane | | 1.1 | U | 0.88 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.64 | 5.7 |
| cis-1,3-Dichloropropene | | 2.3 | U | 1.5 | 5.7 |
| Cyclohexane | | 1.8 | U | 0.46 | 5.7 |
| Dibromomethane | | 1.1 | U | 0.97 | 5.7 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0208AA**

Lab Sample ID: 280-42039-5 | Date Sampled: 05/06/2013 1519
Client Matrix: Solid | % Moisture: 14.7 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8499.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.104 g |
| Analysis Date: | 05/17/2013 1141 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.92 | U | 0.25 | 5.7 |
| Dichlorodifluoromethane | | 1.1 | U | 0.60 | 11 |
| Ethylbenzene | | 1.1 | U | 0.77 | 5.7 |
| Ethylene Dibromide | | 1.1 | U | 0.60 | 5.7 |
| Hexachlorobutadiene | | 1.1 | U | 0.63 | 5.7 |
| Isopropylbenzene | | 1.1 | U | 0.68 | 5.7 |
| Methyl acetate | | 4.6 | U | 3.2 | 9.8 |
| Methyl tert-butyl ether | | 1.1 | U | 0.39 | 23 |
| Methylcyclohexane | | 0.92 | U | 0.48 | 5.7 |
| Methylene Chloride | | 4.7 | J | 1.8 | 5.7 |
| m-Xylene & p-Xylene | | 2.3 | U | 1.2 | 3.7 |
| Naphthalene | | 1.1 | U | 0.72 | 5.7 |
| n-Butylbenzene | | 1.1 | U | 0.64 | 5.7 |
| N-Propylbenzene | | 1.1 | U | 0.67 | 5.7 |
| o-Xylene | | 1.1 | U | 0.70 | 5.7 |
| sec-Butylbenzene | | 1.1 | U | 0.88 | 5.7 |
| Styrene | | 1.1 | U | 0.72 | 5.7 |
| tert-Butylbenzene | | 1.1 | U | 0.57 | 5.7 |
| Tetrachloroethene | | 1.1 | U | 0.68 | 5.7 |
| Toluene | | 1.1 | U | 0.79 | 5.7 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.45 | 5.7 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.77 | 5.7 |
| Trichloroethene | | 0.92 | U | 0.26 | 5.7 |
| Trichlorofluoromethane | | 2.3 | U | 1.2 | 11 |
| Vinyl chloride | | 2.3 | U | 1.5 | 5.7 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 105 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 71 - 126 |
| Toluene-d8 (Surr) | 104 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0212AA**

Lab Sample ID: 280-42039-6 | Date Sampled: 05/06/2013 1525
Client Matrix: Solid | % Moisture: 9.5 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8500.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.112 g |
| Analysis Date: | 05/17/2013 1200 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.4 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.56 | 5.4 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.66 | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 22 | U | 0.49 | 22 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.95 | 5.4 |
| 1,1-Dichloroethane | | 0.86 | U | 0.23 | 5.4 |
| 1,1-Dichloroethene | | 1.1 | U | 0.64 | 5.4 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.4 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.81 | 5.4 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.88 | 5.4 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.79 | 5.4 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.63 | 5.4 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.65 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.49 | 5.4 |
| 1,2-Dichloroethane | | 1.1 | U | 0.76 | 5.4 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.4 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.62 | 5.4 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.52 | 5.4 |
| 1,3-Dichloropropane | | 1.1 | U | 0.55 | 5.4 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.84 | 5.4 |
| 1,4-Dioxane | | 86 | U | 61 | 540 |
| 1-Chlorohexane | | 0.86 | U | 0.68 | 5.4 |
| 2,2-Dichloropropane | | 1.1 | U | 0.48 | 5.4 |
| 2-Butanone (MEK) | | 6.9 | U | 2.0 | 22 |
| 2-Chlorotoluene | | 1.1 | U | 0.55 | 5.4 |
| 2-Hexanone | | 11 | U | 5.3 | 22 |
| 4-Chlorotoluene | | 1.1 | U | 0.84 | 5.4 |
| 4-Isopropyltoluene | | 1.1 | U | 0.53 | 5.4 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.7 | 22 |
| Acetone | | 11 | U | 5.8 | 22 |
| Benzene | | 1.1 | U | 0.51 | 5.4 |
| Bromobenzene | | 1.1 | U | 0.53 | 5.4 |
| Bromoform | | 0.86 | U | 0.25 | 5.4 |
| Bromomethane | | 1.1 | U | 0.54 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.4 |
| Carbon tetrachloride | | 1.1 | U | 0.68 | 5.4 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.4 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.4 |
| Chlorodibromomethane | | 1.1 | U | 0.62 | 5.4 |
| Chloroethane | | 1.1 | U | 0.96 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.83 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.4 |
| cis-1,3-Dichloropropene | | 2.2 | U | 1.4 | 5.4 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.4 |
| Dibromomethane | | 1.1 | U | 0.91 | 5.4 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0212AA**

Lab Sample ID: 280-42039-6 | Date Sampled: 05/06/2013 1525
Client Matrix: Solid | % Moisture: 9.5 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8500.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.112 g |
| Analysis Date: | 05/17/2013 1200 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.86 | U | 0.24 | 5.4 |
| Dichlorodifluoromethane | | 1.1 | U | 0.56 | 11 |
| Ethylbenzene | | 1.1 | U | 0.72 | 5.4 |
| Ethylene Dibromide | | 1.1 | U | 0.56 | 5.4 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.4 |
| Isopropylbenzene | | 1.1 | U | 0.64 | 5.4 |
| Methyl acetate | | 4.3 | U | 3.0 | 9.2 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 22 |
| Methylcyclohexane | | 0.86 | U | 0.45 | 5.4 |
| Methylene Chloride | | 4.4 | J | 1.7 | 5.4 |
| m-Xylene & p-Xylene | | 2.2 | U | 1.1 | 3.5 |
| Naphthalene | | 1.1 | U | 0.68 | 5.4 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.4 |
| N-Propylbenzene | | 1.1 | U | 0.63 | 5.4 |
| o-Xylene | | 1.1 | U | 0.66 | 5.4 |
| sec-Butylbenzene | | 1.1 | U | 0.83 | 5.4 |
| Styrene | | 1.1 | U | 0.68 | 5.4 |
| tert-Butylbenzene | | 1.1 | U | 0.54 | 5.4 |
| Tetrachloroethene | | 1.1 | U | 0.64 | 5.4 |
| Toluene | | 1.1 | U | 0.75 | 5.4 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.4 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.72 | 5.4 |
| Trichloroethene | | 0.86 | U | 0.25 | 5.4 |
| Trichlorofluoromethane | | 2.2 | U | 1.1 | 11 |
| Vinyl chloride | | 2.2 | U | 1.4 | 5.4 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 99 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 105 | | 71 - 126 |
| Toluene-d8 (Surr) | 102 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0304AA**

Lab Sample ID: 280-42039-7 | Date Sampled: 05/06/2013 1545
Client Matrix: Solid | % Moisture: 8.4 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8501.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.178 g |
| Analysis Date: | 05/17/2013 1219 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.59 | 5.3 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.55 | 5.3 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.64 | 5.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.47 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.93 | 5.3 |
| 1,1-Dichloroethane | | 0.84 | U | 0.22 | 5.3 |
| 1,1-Dichloroethene | | 1.1 | U | 0.62 | 5.3 |
| 1,1-Dichloropropene | | 1.1 | U | 0.57 | 5.3 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.79 | 5.3 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.85 | 5.3 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.77 | 5.3 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.61 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.63 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.47 | 5.3 |
| 1,2-Dichloroethane | | 1.1 | U | 0.74 | 5.3 |
| 1,2-Dichloropropane | | 1.1 | U | 0.58 | 5.3 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.60 | 5.3 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.51 | 5.3 |
| 1,3-Dichloropropane | | 1.1 | U | 0.54 | 5.3 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.82 | 5.3 |
| 1,4-Dioxane | | 84 | U | 59 | 530 |
| 1-Chlorohexane | | 0.84 | U | 0.66 | 5.3 |
| 2,2-Dichloropropane | | 1.1 | U | 0.46 | 5.3 |
| 2-Butanone (MEK) | | 6.7 | U | 1.9 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.54 | 5.3 |
| 2-Hexanone | | 11 | U | 5.2 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.82 | 5.3 |
| 4-Isopropyltoluene | | 1.1 | U | 0.52 | 5.3 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.6 | 21 |
| Acetone | | 11 | U | 5.7 | 21 |
| Benzene | | 1.1 | U | 0.50 | 5.3 |
| Bromobenzene | | 1.1 | U | 0.52 | 5.3 |
| Bromoform | | 0.84 | U | 0.24 | 5.3 |
| Bromomethane | | 1.1 | U | 0.53 | 11 |
| Carbon disulfide | | 1.1 | U | 0.44 | 5.3 |
| Carbon tetrachloride | | 1.1 | U | 0.66 | 5.3 |
| Chlorobenzene | | 1.1 | U | 0.57 | 5.3 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.3 |
| Chlorodibromomethane | | 1.1 | U | 0.60 | 5.3 |
| Chloroethane | | 1.1 | U | 0.94 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.81 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.59 | 5.3 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.3 |
| Cyclohexane | | 1.7 | U | 0.42 | 5.3 |
| Dibromomethane | | 1.1 | U | 0.89 | 5.3 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0304AA**

Lab Sample ID: 280-42039-7 | Date Sampled: 05/06/2013 1545
Client Matrix: Solid | % Moisture: 8.4 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8501.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.178 g |
| Analysis Date: | 05/17/2013 1219 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.84 | U | 0.23 | 5.3 |
| Dichlorodifluoromethane | | 1.1 | U | 0.55 | 11 |
| Ethylbenzene | | 1.1 | U | 0.71 | 5.3 |
| Ethylene Dibromide | | 1.1 | U | 0.55 | 5.3 |
| Hexachlorobutadiene | | 1.1 | U | 0.58 | 5.3 |
| Isopropylbenzene | | 1.1 | U | 0.62 | 5.3 |
| Methyl acetate | | 4.2 | U | 2.9 | 9.0 |
| Methyl tert-butyl ether | | 1.1 | U | 0.36 | 21 |
| Methylcyclohexane | | 0.84 | U | 0.44 | 5.3 |
| Methylene Chloride | | 3.5 | J | 1.7 | 5.3 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.66 | 5.3 |
| n-Butylbenzene | | 1.1 | U | 0.59 | 5.3 |
| N-Propylbenzene | | 1.1 | U | 0.61 | 5.3 |
| o-Xylene | | 1.1 | U | 0.64 | 5.3 |
| sec-Butylbenzene | | 1.1 | U | 0.81 | 5.3 |
| Styrene | | 1.1 | U | 0.66 | 5.3 |
| tert-Butylbenzene | | 1.1 | U | 0.53 | 5.3 |
| Tetrachloroethene | | 1.1 | U | 0.62 | 5.3 |
| Toluene | | 1.1 | U | 0.73 | 5.3 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.41 | 5.3 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.71 | 5.3 |
| Trichloroethene | | 0.84 | U | 0.24 | 5.3 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.3 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 98 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 109 | | 71 - 126 |
| Toluene-d8 (Surr) | 102 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0308AA**

Lab Sample ID: 280-42039-8 | Date Sampled: 05/06/2013 1552
Client Matrix: Solid | % Moisture: 10.7 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8502.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.097 g |
| Analysis Date: | 05/17/2013 1239 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.61 | 5.5 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.57 | 5.5 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.67 | 5.5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 22 | U | 0.49 | 22 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.97 | 5.5 |
| 1,1-Dichloroethane | | 0.88 | U | 0.23 | 5.5 |
| 1,1-Dichloroethene | | 1.1 | U | 0.65 | 5.5 |
| 1,1-Dichloropropene | | 1.1 | U | 0.59 | 5.5 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.82 | 5.5 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.89 | 5.5 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.80 | 5.5 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.64 | 5.5 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.66 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.49 | 5.5 |
| 1,2-Dichloroethane | | 1.1 | U | 0.77 | 5.5 |
| 1,2-Dichloropropane | | 1.1 | U | 0.60 | 5.5 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.63 | 5.5 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.53 | 5.5 |
| 1,3-Dichloropropane | | 1.1 | U | 0.56 | 5.5 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.86 | 5.5 |
| 1,4-Dioxane | | 88 | U | 62 | 550 |
| 1-Chlorohexane | | 0.88 | U | 0.69 | 5.5 |
| 2,2-Dichloropropane | | 1.1 | U | 0.48 | 5.5 |
| 2-Butanone (MEK) | | 7.0 | U | 2.0 | 22 |
| 2-Chlorotoluene | | 1.1 | U | 0.56 | 5.5 |
| 2-Hexanone | | 11 | U | 5.4 | 22 |
| 4-Chlorotoluene | | 1.1 | U | 0.86 | 5.5 |
| 4-Isopropyltoluene | | 1.1 | U | 0.54 | 5.5 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.8 | 22 |
| Acetone | | 11 | U | 5.9 | 22 |
| Benzene | | 1.1 | U | 0.52 | 5.5 |
| Bromobenzene | | 1.1 | U | 0.54 | 5.5 |
| Bromoform | | 0.88 | U | 0.25 | 5.5 |
| Bromomethane | | 1.1 | U | 0.55 | 11 |
| Carbon disulfide | | 1.1 | U | 0.46 | 5.5 |
| Carbon tetrachloride | | 1.1 | U | 0.69 | 5.5 |
| Chlorobenzene | | 1.1 | U | 0.59 | 5.5 |
| Chlorobromomethane | | 1.1 | U | 0.33 | 5.5 |
| Chlorodibromomethane | | 1.1 | U | 0.63 | 5.5 |
| Chloroethane | | 1.1 | U | 0.98 | 11 |
| Chloroform | | 1.1 | U | 0.32 | 11 |
| Chloromethane | | 1.1 | U | 0.85 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.61 | 5.5 |
| cis-1,3-Dichloropropene | | 2.2 | U | 1.4 | 5.5 |
| Cyclohexane | | 1.8 | U | 0.44 | 5.5 |
| Dibromomethane | | 1.1 | U | 0.92 | 5.5 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0308AA**

Lab Sample ID: 280-42039-8 | Date Sampled: 05/06/2013 1552
Client Matrix: Solid | % Moisture: 10.7 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8502.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.097 g |
| Analysis Date: | 05/17/2013 1239 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.88 | U | 0.24 | 5.5 |
| Dichlorodifluoromethane | | 1.1 | U | 0.57 | 11 |
| Ethylbenzene | | 1.1 | U | 0.74 | 5.5 |
| Ethylene Dibromide | | 1.1 | U | 0.57 | 5.5 |
| Hexachlorobutadiene | | 1.1 | U | 0.60 | 5.5 |
| Isopropylbenzene | | 1.1 | U | 0.65 | 5.5 |
| Methyl acetate | | 4.4 | U | 3.0 | 9.3 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 22 |
| Methylcyclohexane | | 0.88 | U | 0.46 | 5.5 |
| Methylene Chloride | | 4.1 | J | 1.8 | 5.5 |
| m-Xylene & p-Xylene | | 2.2 | U | 1.1 | 3.5 |
| Naphthalene | | 1.1 | U | 0.69 | 5.5 |
| n-Butylbenzene | | 1.1 | U | 0.61 | 5.5 |
| N-Propylbenzene | | 1.1 | U | 0.64 | 5.5 |
| o-Xylene | | 1.1 | U | 0.67 | 5.5 |
| sec-Butylbenzene | | 1.1 | U | 0.85 | 5.5 |
| Styrene | | 1.1 | U | 0.69 | 5.5 |
| tert-Butylbenzene | | 1.1 | U | 0.55 | 5.5 |
| Tetrachloroethene | | 1.1 | U | 0.65 | 5.5 |
| Toluene | | 1.1 | U | 0.76 | 5.5 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.43 | 5.5 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.74 | 5.5 |
| Trichloroethene | | 0.88 | U | 0.25 | 5.5 |
| Trichlorofluoromethane | | 2.2 | U | 1.1 | 11 |
| Vinyl chloride | | 2.2 | U | 1.5 | 5.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 98 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 71 - 126 |
| Toluene-d8 (Surr) | 103 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0312AA**

Lab Sample ID: 280-42039-9 | Date Sampled: 05/06/2013 1559
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8503.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.099 g |
| Analysis Date: | 05/17/2013 1258 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.4 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.56 | 5.4 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.66 | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.48 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.95 | 5.4 |
| 1,1-Dichloroethane | | 0.86 | U | 0.23 | 5.4 |
| 1,1-Dichloroethene | | 1.1 | U | 0.63 | 5.4 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.4 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.81 | 5.4 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.87 | 5.4 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.78 | 5.4 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.62 | 5.4 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.64 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.48 | 5.4 |
| 1,2-Dichloroethane | | 1.1 | U | 0.75 | 5.4 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.4 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.61 | 5.4 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.52 | 5.4 |
| 1,3-Dichloropropane | | 1.1 | U | 0.55 | 5.4 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.84 | 5.4 |
| 1,4-Dioxane | | 86 | U | 60 | 540 |
| 1-Chlorohexane | | 0.86 | U | 0.68 | 5.4 |
| 2,2-Dichloropropane | | 1.1 | U | 0.47 | 5.4 |
| 2-Butanone (MEK) | | 6.9 | U | 2.0 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.55 | 5.4 |
| 2-Hexanone | | 11 | U | 5.3 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.84 | 5.4 |
| 4-Isopropyltoluene | | 1.1 | U | 0.53 | 5.4 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.7 | 21 |
| Acetone | | 11 | U | 5.8 | 21 |
| Benzene | | 1.1 | U | 0.51 | 5.4 |
| Bromobenzene | | 1.1 | U | 0.53 | 5.4 |
| Bromoform | | 0.86 | U | 0.25 | 5.4 |
| Bromomethane | | 1.1 | U | 0.54 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.4 |
| Carbon tetrachloride | | 1.1 | U | 0.68 | 5.4 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.4 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.4 |
| Chlorodibromomethane | | 1.1 | U | 0.61 | 5.4 |
| Chloroethane | | 1.1 | U | 0.96 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.83 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.4 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.4 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.4 |
| Dibromomethane | | 1.1 | U | 0.90 | 5.4 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0312AA**

Lab Sample ID: 280-42039-9 | Date Sampled: 05/06/2013 1559
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8503.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.099 g |
| Analysis Date: | 05/17/2013 1258 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.86 | U | 0.24 | 5.4 |
| Dichlorodifluoromethane | | 1.1 | U | 0.56 | 11 |
| Ethylbenzene | | 1.1 | U | 0.72 | 5.4 |
| Ethylene Dibromide | | 1.1 | U | 0.56 | 5.4 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.4 |
| Isopropylbenzene | | 1.1 | U | 0.63 | 5.4 |
| Methyl acetate | | 4.3 | U | 3.0 | 9.1 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 21 |
| Methylcyclohexane | | 0.86 | U | 0.45 | 5.4 |
| Methylene Chloride | | 4.1 | J | 1.7 | 5.4 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.68 | 5.4 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.4 |
| N-Propylbenzene | | 1.1 | U | 0.62 | 5.4 |
| o-Xylene | | 1.1 | U | 0.66 | 5.4 |
| sec-Butylbenzene | | 1.1 | U | 0.83 | 5.4 |
| Styrene | | 1.1 | U | 0.68 | 5.4 |
| tert-Butylbenzene | | 1.1 | U | 0.54 | 5.4 |
| Tetrachloroethene | | 1.1 | U | 0.63 | 5.4 |
| Toluene | | 1.1 | U | 0.74 | 5.4 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.4 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.72 | 5.4 |
| Trichloroethene | | 0.86 | U | 0.25 | 5.4 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.4 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 98 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 108 | | 71 - 126 |
| Toluene-d8 (Surr) | 100 | | 85 - 115 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AC**

Lab Sample ID: 280-42039-10FD | Date Sampled: 05/06/2013 1442
Client Matrix: Solid | % Moisture: 9.0 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8504.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.116 g |
| Analysis Date: | 05/17/2013 1318 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 1.1 | U | 0.60 | 5.4 |
| 1,1,1-Trichloroethane | | 1.1 | U | 0.56 | 5.4 |
| 1,1,2,2-Tetrachloroethane | | 1.1 | U | 0.65 | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 21 | U | 0.48 | 21 |
| 1,1,2-Trichloroethane | | 1.1 | U | 0.94 | 5.4 |
| 1,1-Dichloroethane | | 0.86 | U | 0.23 | 5.4 |
| 1,1-Dichloroethene | | 1.1 | U | 0.63 | 5.4 |
| 1,1-Dichloropropene | | 1.1 | U | 0.58 | 5.4 |
| 1,2,3-Trichlorobenzene | | 1.1 | U | 0.81 | 5.4 |
| 1,2,3-Trichloropropane | | 1.1 | U | 0.87 | 5.4 |
| 1,2,4-Trichlorobenzene | | 1.1 | U | 0.78 | 5.4 |
| 1,2,4-Trimethylbenzene | | 1.1 | U | 0.62 | 5.4 |
| 1,2-Dibromo-3-Chloropropane | | 1.1 | U | 0.64 | 11 |
| 1,2-Dichlorobenzene | | 1.1 | U | 0.48 | 5.4 |
| 1,2-Dichloroethane | | 1.1 | U | 0.75 | 5.4 |
| 1,2-Dichloropropane | | 1.1 | U | 0.59 | 5.4 |
| 1,3,5-Trimethylbenzene | | 1.1 | U | 0.61 | 5.4 |
| 1,3-Dichlorobenzene | | 1.1 | U | 0.52 | 5.4 |
| 1,3-Dichloropropane | | 1.1 | U | 0.55 | 5.4 |
| 1,4-Dichlorobenzene | | 1.1 | U | 0.84 | 5.4 |
| 1,4-Dioxane | | 86 | U | 60 | 540 |
| 1-Chlorohexane | | 0.86 | U | 0.68 | 5.4 |
| 2,2-Dichloropropane | | 1.1 | U | 0.47 | 5.4 |
| 2-Butanone (MEK) | | 6.9 | U | 2.0 | 21 |
| 2-Chlorotoluene | | 1.1 | U | 0.55 | 5.4 |
| 2-Hexanone | | 11 | U | 5.3 | 21 |
| 4-Chlorotoluene | | 1.1 | U | 0.84 | 5.4 |
| 4-Isopropyltoluene | | 1.1 | U | 0.53 | 5.4 |
| 4-Methyl-2-pentanone (MIBK) | | 11 | U | 4.7 | 21 |
| Acetone | | 11 | U | 5.8 | 21 |
| Benzene | | 1.1 | U | 0.50 | 5.4 |
| Bromobenzene | | 1.1 | U | 0.53 | 5.4 |
| Bromoform | | 0.86 | U | 0.25 | 5.4 |
| Bromomethane | | 1.1 | U | 0.54 | 11 |
| Carbon disulfide | | 1.1 | U | 0.45 | 5.4 |
| Carbon tetrachloride | | 1.1 | U | 0.68 | 5.4 |
| Chlorobenzene | | 1.1 | U | 0.58 | 5.4 |
| Chlorobromomethane | | 1.1 | U | 0.32 | 5.4 |
| Chlorodibromomethane | | 1.1 | U | 0.61 | 5.4 |
| Chloroethane | | 1.1 | U | 0.96 | 11 |
| Chloroform | | 1.1 | U | 0.31 | 11 |
| Chloromethane | | 1.1 | U | 0.83 | 11 |
| cis-1,2-Dichloroethene | | 1.1 | U | 0.60 | 5.4 |
| cis-1,3-Dichloropropene | | 2.1 | U | 1.4 | 5.4 |
| Cyclohexane | | 1.7 | U | 0.43 | 5.4 |
| Dibromomethane | | 1.1 | U | 0.90 | 5.4 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AC**

Lab Sample ID: 280-42039-10FD | Date Sampled: 05/06/2013 1442
Client Matrix: Solid | % Moisture: 9.0 | Date Received: 05/08/2013 0915

**8260B/DoD Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B/DoD | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | 280-174775 | Lab File ID: | g2_8504.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.116 g |
| Analysis Date: | 05/17/2013 1318 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Dichlorobromomethane | | 0.86 | U | 0.24 | 5.4 |
| Dichlorodifluoromethane | | 1.1 | U | 0.56 | 11 |
| Ethylbenzene | | 1.1 | U | 0.72 | 5.4 |
| Ethylene Dibromide | | 1.1 | U | 0.56 | 5.4 |
| Hexachlorobutadiene | | 1.1 | U | 0.59 | 5.4 |
| Isopropylbenzene | | 1.1 | U | 0.63 | 5.4 |
| Methyl acetate | | 4.3 | U | 3.0 | 9.1 |
| Methyl tert-butyl ether | | 1.1 | U | 0.37 | 21 |
| Methylcyclohexane | | 0.86 | U | 0.45 | 5.4 |
| Methylene Chloride | | 3.6 | J | 1.7 | 5.4 |
| m-Xylene & p-Xylene | | 2.1 | U | 1.1 | 3.4 |
| Naphthalene | | 1.1 | U | 0.68 | 5.4 |
| n-Butylbenzene | | 1.1 | U | 0.60 | 5.4 |
| N-Propylbenzene | | 1.1 | U | 0.62 | 5.4 |
| o-Xylene | | 1.1 | U | 0.65 | 5.4 |
| sec-Butylbenzene | | 1.1 | U | 0.83 | 5.4 |
| Styrene | | 1.1 | U | 0.68 | 5.4 |
| tert-Butylbenzene | | 1.1 | U | 0.54 | 5.4 |
| Tetrachloroethene | | 1.1 | U | 0.63 | 5.4 |
| Toluene | | 1.1 | U | 0.74 | 5.4 |
| trans-1,2-Dichloroethene | | 1.1 | U | 0.42 | 5.4 |
| trans-1,3-Dichloropropene | | 1.1 | U | 0.72 | 5.4 |
| Trichloroethene | | 0.86 | U | 0.25 | 5.4 |
| Trichlorofluoromethane | | 2.1 | U | 1.1 | 11 |
| Vinyl chloride | | 2.1 | U | 1.4 | 5.4 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 100 | | 85 - 120 |
| Dibromofluoromethane (Surr) | 107 | | 71 - 126 |
| Toluene-d8 (Surr) | 103 | | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AE**

Lab Sample ID: 280-42039-11EB
Client Matrix: Water

Date Sampled: 05/06/2013 1630
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4205.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/11/2013 0656 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/11/2013 0656 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AE**

Lab Sample ID: 280-42039-11EB
Client Matrix: Water

Date Sampled: 05/06/2013 1630
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4205.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/11/2013 0656 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/11/2013 0656 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 85 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 85 | | 85 - 115 |
| Toluene-d8 (Surr) | 88 | | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AF**

Lab Sample ID: 280-42039-12FB
Client Matrix: Water

Date Sampled: 05/06/2013 1530
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4289.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/14/2013 0111 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/14/2013 0111 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AF**

Lab Sample ID: 280-42039-12FB
Client Matrix: Water

Date Sampled: 05/06/2013 1530
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | Z4289.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/14/2013 0111 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/14/2013 0111 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 95 | | 85 - 115 |
| Toluene-d8 (Surr) | 99 | | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AR**

Lab Sample ID: 280-42039-13TB
Client Matrix: Water

Date Sampled: 05/06/2013 0900
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | g2_8406.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2349 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2349 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Client Sample ID:** **050613AR**

Lab Sample ID: 280-42039-13TB
Client Matrix: Water

Date Sampled: 05/06/2013 0900
Date Received: 05/08/2013 0915

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | g2_8406.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2349 | | | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2349 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | | 75 - 120 |
| Dibromofluoromethane (Surr) | 112 | | 85 - 115 |
| Toluene-d8 (Surr) | 104 | | 85 - 120 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1 | Date Sampled: 05/06/2013 1440
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 05/15/2013 1045 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9000 | | 1.5 | 47 |
| Antimony | | 0.57 | U | 0.36 | 1.9 |
| Arsenic | | 4.8 | | 0.62 | 2.4 |
| Barium | | 46 | | 0.072 | 1.9 |
| Beryllium | | 0.41 | J | 0.031 | 0.47 |
| Boron | | 1.6 | J | 0.93 | 9.5 |
| Cadmium | | 0.18 | J | 0.039 | 0.47 |
| Chromium | | 10 | Q | 0.055 | 3.3 |
| Cobalt | | 7.6 | | 0.095 | 0.95 |
| Copper | | 33 | Q | 0.21 | 4.7 |
| Lead | | 6.8 | | 0.26 | 0.85 |
| Magnesium | | 3700 | | 3.5 | 28 |
| Manganese | | 1300 | Q | 0.095 | 4.3 |
| Molybdenum | | 0.29 | J | 0.25 | 2.4 |
| Nickel | | 18 | | 0.12 | 3.8 |
| Potassium | | 990 | | 39 | 280 |
| Selenium | | 1.1 | U | 0.81 | 2.8 |
| Silver | | 0.19 | U | 0.15 | 1.4 |
| Thallium | | 1.1 | U | 0.61 | 2.8 |
| Vanadium | | 16 | Q | 0.089 | 1.9 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 05/16/2013 1443 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 7300 | | 13 | 95 |
| Iron | | 21000 | | 3.6 | 76 |
| Sodium | | 95 | U | 56 | 470 |
| Zinc | | 43 | | 0.38 | 7.6 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0108AA**

Lab Sample ID: 280-42039-2 | Date Sampled: 05/06/2013 1455
Client Matrix: Solid | % Moisture: 14.8 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 05/15/2013 1047 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 11000 | | 1.6 | 52 |
| Antimony | | 0.63 | U | 0.40 | 2.1 |
| Arsenic | | 4.0 | | 0.69 | 2.6 |
| Barium | | 86 | | 0.080 | 2.1 |
| Beryllium | | 0.41 | J | 0.035 | 0.52 |
| Boron | | 1.2 | J | 1.0 | 10 |
| Cadmium | | 0.23 | J | 0.043 | 0.52 |
| Chromium | | 13 | Q | 0.061 | 3.7 |
| Cobalt | | 6.2 | | 0.10 | 1.0 |
| Copper | | 15 | Q | 0.23 | 5.2 |
| Lead | | 9.4 | | 0.28 | 0.94 |
| Magnesium | | 2200 | | 3.9 | 31 |
| Manganese | | 1500 | Q | 0.10 | 4.7 |
| Molybdenum | | 1.0 | J | 0.27 | 2.6 |
| Nickel | | 11 | | 0.13 | 4.2 |
| Potassium | | 850 | | 43 | 310 |
| Selenium | | 1.3 | U | 0.90 | 3.1 |
| Silver | | 0.19 | J | 0.17 | 1.6 |
| Thallium | | 1.3 | U | 0.68 | 3.1 |
| Vanadium | | 24 | Q | 0.099 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 05/16/2013 1445 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 3700 | | 15 | 100 |
| Iron | | 21000 | | 4.0 | 84 |
| Sodium | | 170 | J | 62 | 520 |
| Zinc | | 52 | | 0.42 | 8.4 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0112AA**

Lab Sample ID: 280-42039-3 | Date Sampled: 05/06/2013 1500
Client Matrix: Solid | % Moisture: 9.9 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/15/2013 1050 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 10000 | | 1.6 | 52 |
| Antimony | | 0.62 | U | 0.39 | 2.1 |
| Arsenic | | 3.9 | | 0.68 | 2.6 |
| Barium | | 48 | | 0.079 | 2.1 |
| Beryllium | | 0.49 | J | 0.034 | 0.52 |
| Boron | | 1.7 | J | 1.0 | 10 |
| Cadmium | | 0.15 | J | 0.043 | 0.52 |
| Chromium | | 15 | Q | 0.060 | 3.6 |
| Cobalt | | 6.9 | | 0.10 | 1.0 |
| Copper | | 29 | Q | 0.23 | 5.2 |
| Lead | | 5.6 | | 0.28 | 0.93 |
| Magnesium | | 3900 | | 3.8 | 31 |
| Manganese | | 1000 | Q | 0.10 | 4.7 |
| Molybdenum | | 1.0 | J | 0.27 | 2.6 |
| Nickel | | 16 | | 0.13 | 4.2 |
| Potassium | | 1200 | | 43 | 310 |
| Selenium | | 1.2 | U | 0.89 | 3.1 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Thallium | | 1.2 | U | 0.67 | 3.1 |
| Vanadium | | 17 | Q | 0.098 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/16/2013 1448 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 2400 | | 15 | 100 |
| Iron | | 20000 | | 3.9 | 83 |
| Sodium | | 93 | J | 61 | 520 |
| Zinc | | 50 | | 0.41 | 8.3 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0204AA**

Lab Sample ID: 280-42039-4 | Date Sampled: 05/06/2013 1515
Client Matrix: Solid | % Moisture: 8.4 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/15/2013 1052 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 8400 | | 1.6 | 51 |
| Antimony | | 0.61 | U | 0.39 | 2.0 |
| Arsenic | | 5.5 | | 0.67 | 2.6 |
| Barium | | 34 | | 0.078 | 2.0 |
| Beryllium | | 0.46 | J | 0.034 | 0.51 |
| Boron | | 2.5 | J | 1.0 | 10 |
| Cadmium | | 0.23 | J | 0.042 | 0.51 |
| Chromium | | 11 | Q | 0.059 | 3.6 |
| Cobalt | | 7.1 | | 0.10 | 1.0 |
| Copper | | 27 | Q | 0.22 | 5.1 |
| Lead | | 19 | | 0.28 | 0.92 |
| Magnesium | | 4100 | | 3.8 | 31 |
| Manganese | | 700 | Q | 0.10 | 4.6 |
| Molybdenum | | 0.32 | J | 0.27 | 2.6 |
| Nickel | | 16 | | 0.13 | 4.1 |
| Potassium | | 1300 | | 42 | 310 |
| Selenium | | 1.2 | U | 0.88 | 3.1 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.66 | 3.1 |
| Vanadium | | 17 | Q | 0.096 | 2.0 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.07 g |
| Analysis Date: | 05/16/2013 1500 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 6800 | | 14 | 100 |
| Iron | | 17000 | | 3.9 | 82 |
| Sodium | | 100 | U | 60 | 510 |
| Zinc | | 50 | | 0.41 | 8.2 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0208AA**

Lab Sample ID: 280-42039-5 | Date Sampled: 05/06/2013 1519
Client Matrix: Solid | % Moisture: 14.7 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Analysis Date: | 05/15/2013 1104 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 11000 | | 1.7 | 56 |
| Antimony | | 0.68 | U | 0.43 | 2.3 |
| Arsenic | | 3.3 | | 0.74 | 2.8 |
| Barium | | 66 | | 0.086 | 2.3 |
| Beryllium | | 0.39 | J | 0.037 | 0.56 |
| Boron | | 1.8 | J | 1.1 | 11 |
| Cadmium | | 0.31 | J | 0.046 | 0.56 |
| Chromium | | 12 | Q | 0.065 | 3.9 |
| Cobalt | | 6.7 | | 0.11 | 1.1 |
| Copper | | 19 | Q | 0.24 | 5.6 |
| Lead | | 14 | | 0.30 | 1.0 |
| Magnesium | | 3300 | | 4.2 | 34 |
| Manganese | | 950 | Q | 0.11 | 5.1 |
| Molybdenum | | 0.49 | J | 0.29 | 2.8 |
| Nickel | | 12 | | 0.14 | 4.5 |
| Potassium | | 990 | | 46 | 340 |
| Selenium | | 1.4 | U | 0.97 | 3.4 |
| Silver | | 0.23 | U | 0.18 | 1.7 |
| Thallium | | 1.4 | U | 0.73 | 3.4 |
| Vanadium | | 21 | Q | 0.11 | 2.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Analysis Date: | 05/16/2013 1502 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 5400 | | 16 | 110 |
| Iron | | 17000 | | 4.3 | 90 |
| Sodium | | 110 | U | 67 | 560 |
| Zinc | | 58 | | 0.45 | 9.0 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0212AA**

Lab Sample ID: 280-42039-6 | Date Sampled: 05/06/2013 1525
Client Matrix: Solid | % Moisture: 9.5 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.03 g |
| Analysis Date: | 05/15/2013 1107 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9000 | | 1.7 | 54 |
| Antimony | | 0.64 | U | 0.41 | 2.1 |
| Arsenic | | 3.4 | | 0.71 | 2.7 |
| Barium | | 37 | | 0.081 | 2.1 |
| Beryllium | | 0.39 | J | 0.035 | 0.54 |
| Boron | | 1.8 | J | 1.1 | 11 |
| Cadmium | | 0.13 | J | 0.044 | 0.54 |
| Chromium | | 12 | Q | 0.062 | 3.8 |
| Cobalt | | 5.8 | | 0.11 | 1.1 |
| Copper | | 27 | Q | 0.23 | 5.4 |
| Lead | | 5.7 | | 0.29 | 0.97 |
| Magnesium | | 3700 | | 4.0 | 32 |
| Manganese | | 960 | Q | 0.11 | 4.8 |
| Molybdenum | | 0.63 | J | 0.28 | 2.7 |
| Nickel | | 14 | | 0.13 | 4.3 |
| Potassium | | 1100 | | 44 | 320 |
| Selenium | | 1.3 | U | 0.92 | 3.2 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Thallium | | 1.3 | U | 0.70 | 3.2 |
| Vanadium | | 16 | Q | 0.10 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.03 g |
| Analysis Date: | 05/16/2013 1504 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 2000 | | 15 | 110 |
| Iron | | 18000 | | 4.1 | 86 |
| Sodium | | 110 | U | 63 | 540 |
| Zinc | | 48 | | 0.43 | 8.6 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0304AA**

Lab Sample ID: 280-42039-7 | Date Sampled: 05/06/2013 1545
Client Matrix: Solid | % Moisture: 8.4 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 05/15/2013 1109 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 7600 | | 1.5 | 50 |
| Antimony | | 0.60 | U | 0.38 | 2.0 |
| Arsenic | | 3.9 | | 0.66 | 2.5 |
| Barium | | 51 | | 0.075 | 2.0 |
| Beryllium | | 0.37 | J | 0.033 | 0.50 |
| Boron | | 3.0 | J | 0.97 | 9.9 |
| Cadmium | | 0.25 | J | 0.041 | 0.50 |
| Chromium | | 12 | Q | 0.058 | 3.5 |
| Cobalt | | 5.9 | | 0.099 | 0.99 |
| Copper | | 25 | Q | 0.22 | 5.0 |
| Lead | | 36 | | 0.27 | 0.89 |
| Magnesium | | 3100 | | 3.7 | 30 |
| Manganese | | 570 | Q | 0.099 | 4.5 |
| Molybdenum | | 0.50 | U | 0.26 | 2.5 |
| Nickel | | 13 | | 0.12 | 4.0 |
| Potassium | | 1100 | | 41 | 300 |
| Selenium | | 1.2 | U | 0.85 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.65 | 3.0 |
| Vanadium | | 16 | Q | 0.093 | 2.0 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 05/16/2013 1507 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 10000 | | 14 | 99 |
| Iron | | 14000 | | 3.8 | 79 |
| Sodium | | 62 | J | 59 | 500 |
| Zinc | | 54 | | 0.40 | 7.9 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0308AA**

Lab Sample ID: 280-42039-8 | Date Sampled: 05/06/2013 1552
Client Matrix: Solid | % Moisture: 10.7 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 05/15/2013 1112 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 12000 | | 1.5 | 49 |
| Antimony | | 0.59 | U | 0.37 | 2.0 |
| Arsenic | | 4.1 | | 0.65 | 2.5 |
| Barium | | 35 | | 0.075 | 2.0 |
| Beryllium | | 0.48 | J | 0.032 | 0.49 |
| Boron | | 1.8 | J | 0.96 | 9.8 |
| Cadmium | | 0.20 | J | 0.040 | 0.49 |
| Chromium | | 15 | Q | 0.057 | 3.4 |
| Cobalt | | 6.9 | | 0.098 | 0.98 |
| Copper | | 29 | Q | 0.21 | 4.9 |
| Lead | | 6.9 | | 0.27 | 0.88 |
| Magnesium | | 4500 | | 3.6 | 29 |
| Manganese | | 900 | Q | 0.098 | 4.4 |
| Molybdenum | | 0.80 | J | 0.26 | 2.5 |
| Nickel | | 19 | | 0.12 | 3.9 |
| Potassium | | 1100 | | 40 | 290 |
| Selenium | | 1.2 | U | 0.84 | 2.9 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.64 | 2.9 |
| Vanadium | | 20 | Q | 0.092 | 2.0 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 05/16/2013 1509 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 8500 | | 14 | 98 |
| Iron | | 21000 | | 3.7 | 79 |
| Sodium | | 98 | U | 58 | 490 |
| Zinc | | 54 | | 0.39 | 7.9 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0312AA**

Lab Sample ID: 280-42039-9 | Date Sampled: 05/06/2013 1559
Client Matrix: Solid | % Moisture: 8.8 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.20 g |
| Analysis Date: | 05/15/2013 1114 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9000 | | 1.4 | 46 |
| Antimony | | 0.55 | U | 0.35 | 1.8 |
| Arsenic | | 3.9 | | 0.60 | 2.3 |
| Barium | | 38 | | 0.069 | 1.8 |
| Beryllium | | 0.39 | J | 0.030 | 0.46 |
| Boron | | 2.1 | J | 0.90 | 9.1 |
| Cadmium | | 0.12 | J | 0.037 | 0.46 |
| Chromium | | 12 | Q | 0.053 | 3.2 |
| Cobalt | | 6.5 | | 0.091 | 0.91 |
| Copper | | 34 | Q | 0.20 | 4.6 |
| Lead | | 6.1 | | 0.25 | 0.82 |
| Magnesium | | 4200 | | 3.4 | 27 |
| Manganese | | 850 | Q | 0.091 | 4.1 |
| Molybdenum | | 0.60 | J | 0.24 | 2.3 |
| Nickel | | 15 | | 0.11 | 3.7 |
| Potassium | | 1100 | | 37 | 270 |
| Selenium | | 1.1 | U | 0.79 | 2.7 |
| Silver | | 0.18 | U | 0.15 | 1.4 |
| Thallium | | 1.1 | U | 0.59 | 2.7 |
| Vanadium | | 16 | Q | 0.086 | 1.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.20 g |
| Analysis Date: | 05/16/2013 1512 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 9000 | | 13 | 91 |
| Iron | | 18000 | | 3.5 | 73 |
| Zinc | | 47 | | 0.36 | 7.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174937 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051713.asc |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.20 g |
| Analysis Date: | 05/17/2013 1301 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Sodium | | 460 | U | 270 | 2300 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **B255SCS0104AC**

Lab Sample ID: 280-42039-10FD | Date Sampled: 05/06/2013 1442
Client Matrix: Solid | % Moisture: 9.0 | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 05/15/2013 1116 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9800 | | 1.6 | 52 |
| Antimony | | 0.62 | U | 0.39 | 2.1 |
| Arsenic | | 3.5 | | 0.68 | 2.6 |
| Barium | | 33 | | 0.079 | 2.1 |
| Beryllium | | 0.39 | J | 0.034 | 0.52 |
| Boron | | 1.7 | J | 1.0 | 10 |
| Cadmium | | 0.17 | J | 0.042 | 0.52 |
| Chromium | | 11 | Q | 0.060 | 3.6 |
| Cobalt | | 5.6 | | 0.10 | 1.0 |
| Copper | | 21 | Q | 0.22 | 5.2 |
| Lead | | 9.4 | | 0.28 | 0.93 |
| Magnesium | | 3400 | | 3.8 | 31 |
| Manganese | | 540 | Q | 0.10 | 4.7 |
| Molybdenum | | 0.52 | U | 0.27 | 2.6 |
| Nickel | | 14 | | 0.13 | 4.1 |
| Potassium | | 910 | | 42 | 310 |
| Selenium | | 1.2 | U | 0.89 | 3.1 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Thallium | | 1.2 | U | 0.67 | 3.1 |
| Vanadium | | 17 | Q | 0.097 | 2.1 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Prep Method: | 3050B | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 05/16/2013 1514 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Calcium | | 2000 | | 15 | 100 |
| Iron | | 17000 | | 3.9 | 83 |
| Sodium | | 100 | U | 61 | 520 |
| Zinc | | 48 | | 0.41 | 8.3 |

Client: FPM Remediations Inc | Job Number: 280-42039-1

**Client Sample ID:** **050613AE**

Lab Sample ID: 280-42039-11EB | Date Sampled: 05/06/2013 1630
Client Matrix: Water | Date Received: 05/08/2013 0915

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Prep Method: | 3010A | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1533 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Aluminum | 31 | U | 18 | 300 |
| Antimony | 8.0 | U | 3.1 | 20 |
| Arsenic | 12 | U | 4.4 | 25 |
| Barium | 0.82 | J | 0.58 | 10 |
| Beryllium | 0.50 | U | 0.47 | 1.5 |
| Cadmium | 0.80 | U | 0.45 | 5.0 |
| Calcium | 80 | U | 35 | 1000 |
| Chromium | 1.5 | U Q | 0.66 | 15 |
| Cobalt | 2.0 | U | 1.2 | 15 |
| Copper | 3.5 | U Q | 1.4 | 15 |
| Lead | 5.0 | U | 2.6 | 15 |
| Magnesium | 25 | U | 11 | 500 |
| Molybdenum | 7.0 | U | 3.1 | 30 |
| Nickel | 3.0 | U | 1.3 | 40 |
| Potassium | 250 | U | 240 | 3000 |
| Selenium | 12 | U | 4.9 | 22 |
| Silver | 2.0 | U | 0.93 | 15 |
| Thallium | 12 | U | 4.9 | 40 |
| Vanadium | 2.5 | U Q | 1.1 | 15 |
| Zinc | 13 | U | 4.5 | 150 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Prep Method: | 3010A | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1459 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Boron | 7.0 | U | 4.4 | 100 |
| Manganese | 0.69 | J Q | 0.25 | 10 |
| Sodium | 250 | U | 92 | 5000 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Prep Method: | 3010A | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1625 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |

| Analyte | Result (ug/L) | Qualifier | DL | LOQ |
|---|---|---|---|---|
| Iron | 29 | J | 22 | 100 |

**General Chemistry**

**Client Sample ID:** **B255SCS0104AA**

Lab Sample ID: 280-42039-1 Date Sampled: 05/06/2013 1440
Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.8 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0108AA**

Lab Sample ID: 280-42039-2 Date Sampled: 05/06/2013 1455
Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0112AA**

Lab Sample ID: 280-42039-3 Date Sampled: 05/06/2013 1500

Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 9.9 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 90 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0204AA**

Lab Sample ID: 280-42039-4 Date Sampled: 05/06/2013 1515
Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.4 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0208AA**

Lab Sample ID: 280-42039-5 Date Sampled: 05/06/2013 1519
Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0212AA**

Lab Sample ID: 280-42039-6 Date Sampled: 05/06/2013 1525

Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 9.5 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0304AA**

Lab Sample ID: 280-42039-7 Date Sampled: 05/06/2013 1545
Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.4 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0308AA**

Lab Sample ID: 280-42039-8 Date Sampled: 05/06/2013 1552

Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 11 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 89 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0312AA**

Lab Sample ID: 280-42039-9 Date Sampled: 05/06/2013 1559
Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.8 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0104AC**

Lab Sample ID: 280-42039-10FD Date Sampled: 05/06/2013 1442
Client Matrix: Solid Date Received: 05/08/2013 0915

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 9.0 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-175935 | Analysis Date: 05/24/2013 1315 | | | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-42039-1

## Surrogate Recovery Report

**8260B/DoD Volatile Organic Compounds (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample ID | DBFM %Rec | DCA %Rec | TOL %Rec | BFB %Rec |
|---|---|---|---|---|---|
| 280-42039-1 | B255SCS0104AA | 110 | 101 | 103 | 103 |
| 280-42039-2 | B255SCS0108AA | 110 | 105 | 101 | 96 |
| 280-42039-3 | B255SCS0112AA | 112 | 105 | 99 | 96 |
| 280-42039-4 | B255SCS0204AA | 112 | 102 | 101 | 100 |
| 280-42039-5 | B255SCS0208AA | 106 | 97 | 104 | 105 |
| 280-42039-6 | B255SCS0212AA | 105 | 95 | 102 | 99 |
| 280-42039-7 | B255SCS0304AA | 109 | 105 | 102 | 98 |
| 280-42039-8 | B255SCS0308AA | 106 | 97 | 103 | 98 |
| 280-42039-9 | B255SCS0312AA | 108 | 101 | 100 | 98 |
| 280-42039-10 | B255SCS0104AC | 107 | 99 | 103 | 100 |
| MB 280-174775/1-A | | 109 | 100 | 100 | 95 |
| LCS 280-174775/2-A | | 111 | 101 | 101 | 97 |

| Surrogate | Acceptance Limits |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 71-126 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 61-129 |
| TOL = Toluene-d8 (Surr) | 85-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 85-120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

## Surrogate Recovery Report

**8260C Volatile Organic Compounds (GC/MS)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | DBFM %Rec | DCA %Rec | TOL %Rec | BFB %Rec |
|---|---|---|---|---|---|
| 280-42039-11 | 050613AE | 85 | 81 | 88 | 85 |
| 280-42039-12 | 050613AF | 95 | 92 | 99 | 97 |
| 280-42039-13 | 050613AR | 112 | 113 | 104 | 97 |
| MB 280-173812/6 | | 97 | 91 | 100 | 99 |
| MB 280-174063/35 | | 95 | 92 | 101 | 98 |
| MB 280-174465/6 | | 114 | 117 | 104 | 97 |
| LCS 280-173812/5 | | 92 | 90 | 101 | 94 |
| LCS 280-174063/34 | | 94 | 94 | 105 | 98 |
| LCS 280-174465/5 | | 114 | 118 | 102 | 97 |

| Surrogate | Acceptance Limits |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 85-115 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 70-120 |
| TOL = Toluene-d8 (Surr) | 85-120 |
| BFB = 4-Bromofluorobenzene (Surr) | 75-120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Method Blank - Batch: 280-174775**

**Method: 8260B/DoD**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174775/1-A | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Client Matrix: | Solid | Prep Batch: | 280-174775 | Lab File ID: | g2_8492.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 05/17/2013 0921 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.56 | 5.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.52 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.61 | 5.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20 | U | 0.45 | 20 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.88 | 5.0 |
| 1,1-Dichloroethane | 0.80 | U | 0.21 | 5.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.59 | 5.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.54 | 5.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.75 | 5.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.81 | 5.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.73 | 5.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.58 | 5.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.60 | 10 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.45 | 5.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.70 | 5.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.55 | 5.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.57 | 5.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.48 | 5.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.51 | 5.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.78 | 5.0 |
| 1,4-Dioxane | 80 | U | 56 | 500 |
| 1-Chlorohexane | 0.80 | U | 0.63 | 5.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.44 | 5.0 |
| 2-Butanone (MEK) | 6.4 | U | 1.8 | 20 |
| 2-Chlorotoluene | 1.0 | U | 0.51 | 5.0 |
| 2-Hexanone | 10 | U | 4.9 | 20 |
| 4-Chlorotoluene | 1.0 | U | 0.78 | 5.0 |
| 4-Isopropyltoluene | 1.0 | U | 0.49 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 4.4 | 20 |
| Acetone | 7.90 | J | 5.4 | 20 |
| Benzene | 1.0 | U | 0.47 | 5.0 |
| Bromobenzene | 1.0 | U | 0.49 | 5.0 |
| Bromoform | 0.80 | U | 0.23 | 5.0 |
| Bromomethane | 1.0 | U | 0.50 | 10 |
| Carbon disulfide | 0.669 | J | 0.42 | 5.0 |
| Carbon tetrachloride | 1.0 | U | 0.63 | 5.0 |
| Chlorobenzene | 1.0 | U | 0.54 | 5.0 |
| Chlorobromomethane | 1.0 | U | 0.30 | 5.0 |
| Chlorodibromomethane | 1.0 | U | 0.57 | 5.0 |
| Chloroethane | 1.0 | U | 0.89 | 10 |
| Chloroform | 1.0 | U | 0.29 | 10 |
| Chloromethane | 1.0 | U | 0.77 | 10 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.56 | 5.0 |
| cis-1,3-Dichloropropene | 2.0 | U | 1.3 | 5.0 |
| Cyclohexane | 1.6 | U | 0.40 | 5.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Method Blank - Batch: 280-174775**

**Method: 8260B/DoD**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174775/1-A | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Client Matrix: | Solid | Prep Batch: | 280-174775 | Lab File ID: | g2_8492.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 05/17/2013 0921 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Dibromomethane | 1.0 | U | 0.84 | 5.0 |
| Dichlorobromomethane | 0.80 | U | 0.22 | 5.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.52 | 10 |
| Ethylbenzene | 1.0 | U | 0.67 | 5.0 |
| Ethylene Dibromide | 1.0 | U | 0.52 | 5.0 |
| Hexachlorobutadiene | 1.0 | U | 0.55 | 5.0 |
| Isopropylbenzene | 1.0 | U | 0.59 | 5.0 |
| Methyl acetate | 4.0 | U | 2.8 | 8.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.34 | 20 |
| Methylcyclohexane | 0.80 | U | 0.42 | 5.0 |
| Methylene Chloride | 2.16 | J | 1.6 | 5.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.0 | 3.2 |
| Naphthalene | 1.0 | U | 0.63 | 5.0 |
| n-Butylbenzene | 1.0 | U | 0.56 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.58 | 5.0 |
| o-Xylene | 1.0 | U | 0.61 | 5.0 |
| sec-Butylbenzene | 1.0 | U | 0.77 | 5.0 |
| Styrene | 1.0 | U | 0.63 | 5.0 |
| tert-Butylbenzene | 1.0 | U | 0.50 | 5.0 |
| Tetrachloroethene | 1.0 | U | 0.59 | 5.0 |
| Toluene | 1.0 | U | 0.69 | 5.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.39 | 5.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.67 | 5.0 |
| Trichloroethene | 0.80 | U | 0.23 | 5.0 |
| Trichlorofluoromethane | 2.0 | U | 1.0 | 10 |
| Vinyl chloride | 2.0 | U | 1.3 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 100 | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 95 | 85 - 120 |
| Dibromofluoromethane (Surr) | 109 | 71 - 126 |
| Toluene-d8 (Surr) | 100 | 85 - 115 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-174775**

**Method: 8260B/DoD**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174775/2-A | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Client Matrix: | Solid | Prep Batch: | 280-174775 | Lab File ID: | g2_8491.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 05/17/2013 0902 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 50.0 | 47.3 | 95 | 75 - 125 | |
| 1,1,1-Trichloroethane | 50.0 | 55.5 | 111 | 70 - 135 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.8 | 96 | 55 - 130 | |
| 1,1,2-Trichloroethane | 50.0 | 50.5 | 101 | 60 - 125 | |
| 1,1-Dichloroethane | 50.0 | 50.9 | 102 | 75 - 125 | |
| 1,1-Dichloroethene | 50.0 | 55.0 | 110 | 65 - 135 | |
| 1,1-Dichloropropene | 50.0 | 48.6 | 97 | 70 - 135 | |
| 1,2,3-Trichlorobenzene | 50.0 | 46.8 | 94 | 60 - 135 | |
| 1,2,3-Trichloropropane | 50.0 | 47.3 | 95 | 65 - 130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 48.6 | 97 | 65 - 130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 49.3 | 99 | 65 - 135 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 48.7 | 97 | 40 - 135 | |
| 1,2-Dichlorobenzene | 50.0 | 49.3 | 99 | 75 - 120 | |
| 1,2-Dichloroethane | 50.0 | 50.4 | 101 | 70 - 135 | |
| 1,2-Dichloropropane | 50.0 | 49.9 | 100 | 70 - 120 | |
| 1,3,5-Trimethylbenzene | 50.0 | 47.1 | 94 | 65 - 135 | |
| 1,3-Dichlorobenzene | 50.0 | 50.0 | 100 | 70 - 125 | |
| 1,3-Dichloropropane | 50.0 | 46.5 | 93 | 75 - 125 | |
| 1,4-Dichlorobenzene | 50.0 | 49.9 | 100 | 70 - 125 | |
| 2,2-Dichloropropane | 50.0 | 55.0 | 110 | 65 - 135 | |
| 2-Butanone (MEK) | 200 | 222 | 111 | 30 - 160 | |
| 2-Chlorotoluene | 50.0 | 49.6 | 99 | 70 - 130 | |
| 2-Hexanone | 200 | 186 | 93 | 45 - 145 | |
| 4-Chlorotoluene | 50.0 | 50.1 | 100 | 75 - 125 | |
| 4-Isopropyltoluene | 50.0 | 47.0 | 94 | 75 - 135 | |
| 4-Methyl-2-pentanone (MIBK) | 200 | 193 | 97 | 45 - 145 | |
| Acetone | 200 | 173 | 87 | 20 - 160 | |
| Benzene | 50.0 | 50.7 | 101 | 75 - 125 | |
| Bromobenzene | 50.0 | 49.0 | 98 | 65 - 120 | |
| Bromoform | 50.0 | 43.9 | 88 | 55 - 135 | |
| Bromomethane | 50.0 | 45.4 | 91 | 30 - 160 | |
| Carbon disulfide | 50.0 | 50.0 | 100 | 45 - 160 | |
| Carbon tetrachloride | 50.0 | 53.3 | 107 | 65 - 135 | |
| Chlorobenzene | 50.0 | 49.3 | 99 | 75 - 125 | |
| Chlorobromomethane | 50.0 | 53.8 | 108 | 70 - 125 | |
| Chlorodibromomethane | 50.0 | 50.5 | 101 | 65 - 130 | |
| Chloroethane | 50.0 | 47.7 | 95 | 40 - 155 | |
| Chloroform | 50.0 | 52.2 | 104 | 70 - 125 | |
| Chloromethane | 50.0 | 47.4 | 95 | 50 - 130 | |
| cis-1,2-Dichloroethene | 50.0 | 52.8 | 106 | 65 - 125 | |
| cis-1,3-Dichloropropene | 50.0 | 46.6 | 93 | 70 - 125 | |
| Dibromomethane | 50.0 | 51.6 | 103 | 75 - 130 | |
| Dichlorobromomethane | 50.0 | 51.4 | 103 | 70 - 130 | |
| Dichlorodifluoromethane | 50.0 | 45.0 | 90 | 35 - 135 | |
| Ethylbenzene | 50.0 | 49.9 | 100 | 75 - 125 | |
| Ethylene Dibromide | 50.0 | 48.7 | 97 | 70 - 125 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-174775**

**Method: 8260B/DoD**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174775/2-A | Analysis Batch: | 280-174695 | Instrument ID: | VMS_G2 |
| Client Matrix: | Solid | Prep Batch: | 280-174775 | Lab File ID: | g2_8491.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 05/17/2013 0902 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/17/2013 0600 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 50.0 | 47.5 | 95 | 55 - 140 | |
| Isopropylbenzene | 50.0 | 49.8 | 100 | 75 - 130 | |
| Methyl tert-butyl ether | 50.0 | 53.5 | 107 | 67 - 119 | |
| Methylene Chloride | 50.0 | 45.2 | 90 | 55 - 140 | |
| m-Xylene & p-Xylene | 100 | 100 | 100 | 80 - 125 | |
| Naphthalene | 50.0 | 45.6 | 91 | 40 - 125 | |
| n-Butylbenzene | 50.0 | 49.3 | 99 | 65 - 140 | |
| N-Propylbenzene | 50.0 | 49.5 | 99 | 65 - 135 | |
| o-Xylene | 50.0 | 50.1 | 100 | 75 - 125 | |
| sec-Butylbenzene | 50.0 | 48.1 | 96 | 65 - 130 | |
| Styrene | 50.0 | 49.9 | 100 | 75 - 125 | |
| tert-Butylbenzene | 50.0 | 50.4 | 101 | 65 - 130 | |
| Tetrachloroethene | 50.0 | 51.4 | 103 | 65 - 140 | |
| Toluene | 50.0 | 52.4 | 105 | 70 - 125 | |
| trans-1,2-Dichloroethene | 50.0 | 55.3 | 111 | 65 - 135 | |
| trans-1,3-Dichloropropene | 50.0 | 47.1 | 94 | 65 - 125 | |
| Trichloroethene | 50.0 | 51.7 | 103 | 75 - 125 | |
| Trichlorofluoromethane | 50.0 | 51.3 | 103 | 25 - 185 | |
| Vinyl chloride | 50.0 | 48.0 | 96 | 60 - 125 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 101 | 61 - 129 |
| 4-Bromofluorobenzene (Surr) | 97 | 85 - 120 |
| Dibromofluoromethane (Surr) | 111 | 71 - 126 |
| Toluene-d8 (Surr) | 101 | 85 - 115 |

**Method Blank - Batch: 280-173812** **Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-173812/6 | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4178.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/10/2013 2057 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/10/2013 2057 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Method Blank - Batch: 280-173812**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-173812/6 | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4178.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/10/2013 2057 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/10/2013 2057 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.607 | J | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 91 | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 99 | 75 - 120 |
| Dibromofluoromethane (Surr) | 97 | 85 - 115 |
| Toluene-d8 (Surr) | 100 | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-173812**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-173812/5 | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4177.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/10/2013 2035 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/10/2013 2035 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.70 | 94 | 80 - 130 | |
| 1,1,1-Trichloroethane | 5.00 | 4.77 | 95 | 65 - 130 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.79 | 96 | 65 - 130 | |
| 1,1,2-Trichloroethane | 5.00 | 4.60 | 92 | 75 - 125 | |
| 1,1-Dichloroethane | 5.00 | 4.52 | 90 | 70 - 135 | |
| 1,1-Dichloroethene | 5.00 | 5.61 | 112 | 70 - 130 | |
| 1,1-Dichloropropene | 5.00 | 4.41 | 88 | 75 - 130 | |
| 1,2,3-Trichlorobenzene | 5.00 | 4.56 | 91 | 55 - 140 | |
| 1,2,3-Trichloropropane | 5.00 | 4.66 | 93 | 75 - 125 | |
| 1,2,4-Trichlorobenzene | 5.00 | 4.76 | 95 | 65 - 135 | |
| 1,2,4-Trimethylbenzene | 5.00 | 4.63 | 93 | 75 - 130 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.57 | 91 | 50 - 130 | J |
| 1,2-Dichlorobenzene | 5.00 | 4.82 | 96 | 70 - 120 | |
| 1,2-Dichloroethane | 5.00 | 4.63 | 93 | 70 - 130 | |
| 1,2-Dichloropropane | 5.00 | 4.62 | 92 | 75 - 125 | |
| 1,3,5-Trimethylbenzene | 5.00 | 4.73 | 95 | 75 - 130 | |
| 1,3-Dichlorobenzene | 5.00 | 4.72 | 94 | 75 - 125 | |
| 1,3-Dichloropropane | 5.00 | 4.63 | 93 | 75 - 125 | |
| 1,4-Dichlorobenzene | 5.00 | 4.85 | 97 | 75 - 125 | |
| 2,2-Dichloropropane | 5.00 | 4.76 | 95 | 70 - 135 | |
| 2-Butanone (MEK) | 20.0 | 17.2 | 86 | 30 - 150 | |
| 2-Chlorotoluene | 5.00 | 5.34 | 107 | 75 - 125 | |
| 2-Hexanone | 20.0 | 18.1 | 91 | 55 - 130 | |
| 4-Chlorotoluene | 5.00 | 4.74 | 95 | 75 - 130 | |
| 4-Isopropyltoluene | 5.00 | 4.56 | 91 | 75 - 130 | |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 18.3 | 92 | 60 - 135 | |
| Acetone | 20.0 | 23.2 | 116 | 40 - 140 | |
| Benzene | 5.00 | 4.66 | 93 | 80 - 120 | |
| Bromobenzene | 5.00 | 4.77 | 95 | 75 - 125 | |
| Bromoform | 5.00 | 4.77 | 95 | 70 - 130 | |
| Bromomethane | 5.00 | 4.50 | 90 | 30 - 145 | |
| Carbon disulfide | 5.00 | 4.85 | 97 | 35 - 160 | |
| Carbon tetrachloride | 5.00 | 4.74 | 95 | 65 - 140 | |
| Chlorobenzene | 5.00 | 4.83 | 97 | 80 - 120 | |
| Chlorobromomethane | 5.00 | 4.75 | 95 | 65 - 130 | |
| Chlorodibromomethane | 5.00 | 4.74 | 95 | 60 - 135 | |
| Chloroethane | 5.00 | 4.51 | 90 | 60 - 135 | |
| Chloroform | 5.00 | 4.66 | 93 | 65 - 135 | |
| Chloromethane | 5.00 | 3.84 | 77 | 40 - 125 | |
| cis-1,2-Dichloroethene | 5.00 | 4.71 | 94 | 70 - 125 | |
| cis-1,3-Dichloropropene | 5.00 | 4.74 | 95 | 70 - 130 | |
| Dibromomethane | 5.00 | 4.65 | 93 | 75 - 125 | |
| Dichlorobromomethane | 5.00 | 4.66 | 93 | 75 - 120 | |
| Dichlorodifluoromethane | 5.00 | 4.42 | 88 | 30 - 155 | |
| Ethylbenzene | 5.00 | 4.72 | 94 | 75 - 125 | |
| Ethylene Dibromide | 5.00 | 4.72 | 94 | 80 - 120 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-173812**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-173812/5 | Analysis Batch: | 280-173812 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4177.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/10/2013 2035 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/10/2013 2035 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 5.00 | 4.91 | 98 | 50 - 140 | |
| Isopropylbenzene | 5.00 | 4.72 | 94 | 75 - 125 | |
| Methyl tert-butyl ether | 5.00 | 4.99 | 100 | 65 - 125 | J |
| Methylene Chloride | 5.00 | 5.70 | 114 | 55 - 140 | |
| m-Xylene & p-Xylene | 10.0 | 9.40 | 94 | 75 - 130 | |
| Naphthalene | 5.00 | 4.18 | 84 | 55 - 140 | |
| n-Butylbenzene | 5.00 | 4.64 | 93 | 70 - 135 | |
| N-Propylbenzene | 5.00 | 4.66 | 93 | 70 - 130 | |
| o-Xylene | 5.00 | 4.67 | 93 | 80 - 120 | |
| sec-Butylbenzene | 5.00 | 4.72 | 94 | 70 - 125 | |
| Styrene | 5.00 | 4.72 | 94 | 65 - 135 | |
| tert-Butylbenzene | 5.00 | 4.68 | 94 | 70 - 130 | |
| Tetrachloroethene | 5.00 | 4.96 | 99 | 45 - 150 | |
| Toluene | 5.00 | 4.67 | 93 | 75 - 120 | |
| trans-1,2-Dichloroethene | 5.00 | 4.96 | 99 | 60 - 140 | |
| trans-1,3-Dichloropropene | 5.00 | 4.73 | 95 | 55 - 140 | |
| Trichloroethene | 5.00 | 4.61 | 92 | 70 - 125 | |
| Trichlorofluoromethane | 5.00 | 4.71 | 94 | 60 - 145 | |
| Vinyl chloride | 5.00 | 4.90 | 98 | 50 - 145 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 90 | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 94 | 75 - 120 |
| Dibromofluoromethane (Surr) | 92 | 85 - 115 |
| Toluene-d8 (Surr) | 101 | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Method Blank - Batch: 280-174063**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174063/35 | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4284.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/13/2013 2321 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/13/2013 2321 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Method Blank - Batch: 280-174063**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174063/35 | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4284.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/13/2013 2321 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/13/2013 2321 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.230 | J | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 92 | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 98 | 75 - 120 |
| Dibromofluoromethane (Surr) | 95 | 85 - 115 |
| Toluene-d8 (Surr) | 101 | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-174063**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174063/34 | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4283.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/13/2013 2259 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/13/2013 2259 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.39 | 88 | 80 - 130 | |
| 1,1,1-Trichloroethane | 5.00 | 4.46 | 89 | 65 - 130 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.62 | 92 | 65 - 130 | |
| 1,1,2-Trichloroethane | 5.00 | 4.38 | 88 | 75 - 125 | |
| 1,1-Dichloroethane | 5.00 | 4.26 | 85 | 70 - 135 | |
| 1,1-Dichloroethene | 5.00 | 5.24 | 105 | 70 - 130 | |
| 1,1-Dichloropropene | 5.00 | 4.21 | 84 | 75 - 130 | |
| 1,2,3-Trichlorobenzene | 5.00 | 4.23 | 85 | 55 - 140 | |
| 1,2,3-Trichloropropane | 5.00 | 4.34 | 87 | 75 - 125 | |
| 1,2,4-Trichlorobenzene | 5.00 | 4.49 | 90 | 65 - 135 | |
| 1,2,4-Trimethylbenzene | 5.00 | 4.32 | 86 | 75 - 130 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.35 | 87 | 50 - 130 | J |
| 1,2-Dichlorobenzene | 5.00 | 4.39 | 88 | 70 - 120 | |
| 1,2-Dichloroethane | 5.00 | 4.43 | 89 | 70 - 130 | |
| 1,2-Dichloropropane | 5.00 | 4.42 | 88 | 75 - 125 | |
| 1,3,5-Trimethylbenzene | 5.00 | 4.43 | 89 | 75 - 130 | |
| 1,3-Dichlorobenzene | 5.00 | 4.43 | 89 | 75 - 125 | |
| 1,3-Dichloropropane | 5.00 | 4.46 | 89 | 75 - 125 | |
| 1,4-Dichlorobenzene | 5.00 | 4.59 | 92 | 75 - 125 | |
| 2,2-Dichloropropane | 5.00 | 4.53 | 91 | 70 - 135 | |
| 2-Butanone (MEK) | 20.0 | 18.0 | 90 | 30 - 150 | |
| 2-Chlorotoluene | 5.00 | 5.01 | 100 | 75 - 125 | |
| 2-Hexanone | 20.0 | 20.6 | 103 | 55 - 130 | |
| 4-Chlorotoluene | 5.00 | 4.43 | 89 | 75 - 130 | |
| 4-Isopropyltoluene | 5.00 | 4.30 | 86 | 75 - 130 | |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 19.3 | 97 | 60 - 135 | |
| Acetone | 20.0 | 23.3 | 116 | 40 - 140 | |
| Benzene | 5.00 | 4.46 | 89 | 80 - 120 | |
| Bromobenzene | 5.00 | 4.41 | 88 | 75 - 125 | |
| Bromoform | 5.00 | 4.41 | 88 | 70 - 130 | |
| Bromomethane | 5.00 | 3.79 | 76 | 30 - 145 | |
| Carbon disulfide | 5.00 | 4.31 | 86 | 35 - 160 | |
| Carbon tetrachloride | 5.00 | 4.45 | 89 | 65 - 140 | |
| Chlorobenzene | 5.00 | 4.52 | 90 | 80 - 120 | |
| Chlorobromomethane | 5.00 | 4.45 | 89 | 65 - 130 | |
| Chlorodibromomethane | 5.00 | 4.53 | 91 | 60 - 135 | |
| Chloroethane | 5.00 | 4.26 | 85 | 60 - 135 | |
| Chloroform | 5.00 | 4.45 | 89 | 65 - 135 | |
| Chloromethane | 5.00 | 3.42 | 68 | 40 - 125 | |
| cis-1,2-Dichloroethene | 5.00 | 4.44 | 89 | 70 - 125 | |
| cis-1,3-Dichloropropene | 5.00 | 4.49 | 90 | 70 - 130 | |
| Dibromomethane | 5.00 | 4.39 | 88 | 75 - 125 | |
| Dichlorobromomethane | 5.00 | 4.43 | 89 | 75 - 120 | |
| Dichlorodifluoromethane | 5.00 | 3.89 | 78 | 30 - 155 | |
| Ethylbenzene | 5.00 | 4.49 | 90 | 75 - 125 | |
| Ethylene Dibromide | 5.00 | 4.37 | 87 | 80 - 120 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-174063**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174063/34 | Analysis Batch: | 280-174063 | Instrument ID: | VMS_Z |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | Z4283.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/13/2013 2259 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/13/2013 2259 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 5.00 | 4.66 | 93 | 50 - 140 | |
| Isopropylbenzene | 5.00 | 4.43 | 89 | 75 - 125 | |
| Methyl tert-butyl ether | 5.00 | 4.71 | 94 | 65 - 125 | J |
| Methylene Chloride | 5.00 | 4.67 | 93 | 55 - 140 | J |
| m-Xylene & p-Xylene | 10.0 | 8.94 | 89 | 75 - 130 | |
| Naphthalene | 5.00 | 4.16 | 83 | 55 - 140 | |
| n-Butylbenzene | 5.00 | 4.47 | 89 | 70 - 135 | |
| N-Propylbenzene | 5.00 | 4.34 | 87 | 70 - 130 | |
| o-Xylene | 5.00 | 4.39 | 88 | 80 - 120 | |
| sec-Butylbenzene | 5.00 | 4.55 | 91 | 70 - 125 | |
| Styrene | 5.00 | 4.54 | 91 | 65 - 135 | |
| tert-Butylbenzene | 5.00 | 4.40 | 88 | 70 - 130 | |
| Tetrachloroethene | 5.00 | 4.59 | 92 | 45 - 150 | |
| Toluene | 5.00 | 4.43 | 89 | 75 - 120 | |
| trans-1,2-Dichloroethene | 5.00 | 4.63 | 93 | 60 - 140 | |
| trans-1,3-Dichloropropene | 5.00 | 4.56 | 91 | 55 - 140 | |
| Trichloroethene | 5.00 | 4.43 | 89 | 70 - 125 | |
| Trichlorofluoromethane | 5.00 | 4.18 | 84 | 60 - 145 | |
| Vinyl chloride | 5.00 | 4.05 | 81 | 50 - 145 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 94 | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 98 | 75 - 120 |
| Dibromofluoromethane (Surr) | 94 | 85 - 115 |
| Toluene-d8 (Surr) | 105 | 85 - 120 |

**Method Blank - Batch: 280-174465** **Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174465/6 | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | g2_8398.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2112 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2112 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.20 | U | 0.17 | 1.0 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 0.40 | U | 0.20 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 0.79 | 3.0 |
| 1,1,2-Trichloroethane | 0.40 | U | 0.32 | 1.0 |
| 1,1-Dichloroethane | 0.20 | U | 0.16 | 1.0 |
| 1,1-Dichloroethene | 0.20 | U | 0.14 | 1.0 |
| 1,1-Dichloropropene | 0.40 | U | 0.15 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.40 | U | 0.18 | 1.0 |
| 1,2,3-Trichloropropane | 0.80 | U | 0.77 | 3.0 |
| 1,2,4-Trichlorobenzene | 0.80 | U | 0.32 | 1.0 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.14 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.6 | U | 0.81 | 5.0 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 0.20 | U | 0.13 | 1.0 |
| 1,2-Dichloropropane | 0.20 | U | 0.13 | 1.0 |
| 1,3,5-Trimethylbenzene | 0.40 | U | 0.14 | 1.0 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.16 | 1.0 |
| 1,3-Dichloropropane | 0.20 | U | 0.15 | 1.0 |
| 1,4-Dichlorobenzene | 0.40 | U | 0.16 | 1.0 |
| 1,4-Dioxane | 80 | U | 71 | 220 |
| 1-Chlorohexane | 0.20 | U | 0.17 | 1.0 |
| 2,2-Dichloropropane | 0.40 | U | 0.20 | 1.0 |
| 2-Butanone (MEK) | 3.2 | U | 1.8 | 6.0 |
| 2-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 2-Hexanone | 3.2 | U | 1.4 | 5.0 |
| 4-Chlorotoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Isopropyltoluene | 0.40 | U | 0.17 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 1.0 | 5.0 |
| Acetone | 6.4 | U | 1.9 | 10 |
| Benzene | 0.20 | U | 0.16 | 1.0 |
| Bromobenzene | 0.20 | U | 0.17 | 1.0 |
| Bromoform | 0.40 | U | 0.19 | 1.0 |
| Bromomethane | 0.40 | U | 0.21 | 2.0 |
| Carbon disulfide | 0.80 | U | 0.45 | 2.0 |
| Carbon tetrachloride | 0.40 | U | 0.19 | 2.0 |
| Chlorobenzene | 0.20 | U | 0.17 | 1.0 |
| Chlorobromomethane | 0.20 | U | 0.10 | 1.0 |
| Chlorodibromomethane | 0.40 | U | 0.17 | 1.0 |
| Chloroethane | 1.6 | U | 0.41 | 2.0 |
| Chloroform | 0.20 | U | 0.16 | 1.0 |
| Chloromethane | 0.80 | U | 0.30 | 2.0 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.16 | 1.0 |
| Cyclohexane | 0.40 | U | 0.28 | 2.0 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Method Blank - Batch: 280-174465**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174465/6 | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | g2_8398.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2112 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2112 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Dibromomethane | 0.40 | U | 0.17 | 1.0 |
| Dichlorobromomethane | 0.20 | U | 0.17 | 1.0 |
| Dichlorodifluoromethane | 0.80 | U | 0.31 | 2.0 |
| Ethylbenzene | 0.20 | U | 0.16 | 1.0 |
| Ethylene Dibromide | 0.20 | U | 0.18 | 1.0 |
| Hexachlorobutadiene | 0.40 | U | 0.36 | 1.0 |
| Isopropylbenzene | 0.40 | U | 0.19 | 1.0 |
| Methyl acetate | 2.0 | U | 1.6 | 5.0 |
| Methyl tert-butyl ether | 0.40 | U | 0.25 | 5.0 |
| Methylcyclohexane | 0.40 | U | 0.36 | 2.0 |
| Methylene Chloride | 0.40 | U | 0.32 | 5.0 |
| m-Xylene & p-Xylene | 0.80 | U | 0.34 | 2.0 |
| Naphthalene | 0.80 | U | 0.22 | 1.0 |
| n-Butylbenzene | 0.40 | U | 0.32 | 1.0 |
| N-Propylbenzene | 0.20 | U | 0.16 | 1.0 |
| o-Xylene | 0.40 | U | 0.19 | 1.0 |
| sec-Butylbenzene | 0.40 | U | 0.17 | 1.0 |
| Styrene | 0.40 | U | 0.17 | 1.0 |
| tert-Butylbenzene | 0.40 | U | 0.16 | 1.0 |
| Tetrachloroethene | 0.40 | U | 0.20 | 1.0 |
| Toluene | 0.40 | U | 0.17 | 1.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.15 | 1.0 |
| trans-1,3-Dichloropropene | 0.40 | U | 0.19 | 1.0 |
| Trichloroethene | 0.20 | U | 0.16 | 1.0 |
| Trichlorofluoromethane | 0.80 | U | 0.29 | 2.0 |
| Vinyl chloride | 0.40 | U | 0.10 | 1.5 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 117 | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | 75 - 120 |
| Dibromofluoromethane (Surr) | 114 | 85 - 115 |
| Toluene-d8 (Surr) | 104 | 85 - 120 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-174465**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174465/5 | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | g2_8397.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2053 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2053 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.91 | 98 | 80 - 130 | |
| 1,1,1-Trichloroethane | 5.00 | 5.13 | 103 | 65 - 130 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.98 | 100 | 65 - 130 | |
| 1,1,2-Trichloroethane | 5.00 | 5.03 | 101 | 75 - 125 | |
| 1,1-Dichloroethane | 5.00 | 4.97 | 99 | 70 - 135 | |
| 1,1-Dichloroethene | 5.00 | 5.78 | 116 | 70 - 130 | |
| 1,1-Dichloropropene | 5.00 | 4.69 | 94 | 75 - 130 | |
| 1,2,3-Trichlorobenzene | 5.00 | 4.92 | 98 | 55 - 140 | |
| 1,2,3-Trichloropropane | 5.00 | 5.07 | 101 | 75 - 125 | |
| 1,2,4-Trichlorobenzene | 5.00 | 4.95 | 99 | 65 - 135 | |
| 1,2,4-Trimethylbenzene | 5.00 | 4.78 | 96 | 75 - 130 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.69 | 94 | 50 - 130 | J |
| 1,2-Dichlorobenzene | 5.00 | 4.99 | 100 | 70 - 120 | |
| 1,2-Dichloroethane | 5.00 | 5.04 | 101 | 70 - 130 | |
| 1,2-Dichloropropane | 5.00 | 4.86 | 97 | 75 - 125 | |
| 1,3,5-Trimethylbenzene | 5.00 | 4.84 | 97 | 75 - 130 | |
| 1,3-Dichlorobenzene | 5.00 | 5.00 | 100 | 75 - 125 | |
| 1,3-Dichloropropane | 5.00 | 4.91 | 98 | 75 - 125 | |
| 1,4-Dichlorobenzene | 5.00 | 4.97 | 99 | 75 - 125 | |
| 2,2-Dichloropropane | 5.00 | 5.11 | 102 | 70 - 135 | |
| 2-Butanone (MEK) | 20.0 | 22.1 | 111 | 30 - 150 | |
| 2-Chlorotoluene | 5.00 | 4.76 | 95 | 75 - 125 | |
| 2-Hexanone | 20.0 | 17.7 | 89 | 55 - 130 | |
| 4-Chlorotoluene | 5.00 | 4.96 | 99 | 75 - 130 | |
| 4-Isopropyltoluene | 5.00 | 4.72 | 94 | 75 - 130 | |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 18.8 | 94 | 60 - 135 | |
| Acetone | 20.0 | 21.1 | 105 | 40 - 140 | |
| Benzene | 5.00 | 4.89 | 98 | 80 - 120 | |
| Bromobenzene | 5.00 | 5.06 | 101 | 75 - 125 | |
| Bromoform | 5.00 | 4.83 | 97 | 70 - 130 | |
| Bromomethane | 5.00 | 4.91 | 98 | 30 - 145 | |
| Carbon disulfide | 5.00 | 3.14 | 63 | 35 - 160 | |
| Carbon tetrachloride | 5.00 | 5.02 | 100 | 65 - 140 | |
| Chlorobenzene | 5.00 | 4.94 | 99 | 80 - 120 | |
| Chlorobromomethane | 5.00 | 5.00 | 100 | 65 - 130 | |
| Chlorodibromomethane | 5.00 | 5.02 | 100 | 60 - 135 | |
| Chloroethane | 5.00 | 4.94 | 99 | 60 - 135 | |
| Chloroform | 5.00 | 4.98 | 100 | 65 - 135 | |
| Chloromethane | 5.00 | 4.84 | 97 | 40 - 125 | |
| cis-1,2-Dichloroethene | 5.00 | 4.94 | 99 | 70 - 125 | |
| cis-1,3-Dichloropropene | 5.00 | 4.82 | 96 | 70 - 130 | |
| Dibromomethane | 5.00 | 5.12 | 102 | 75 - 125 | |
| Dichlorobromomethane | 5.00 | 4.92 | 98 | 75 - 120 | |
| Dichlorodifluoromethane | 5.00 | 4.74 | 95 | 30 - 155 | |
| Ethylbenzene | 5.00 | 4.89 | 98 | 75 - 125 | |
| Ethylene Dibromide | 5.00 | 5.03 | 101 | 80 - 120 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-174465**

**Method: 8260C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174465/5 | Analysis Batch: | 280-174465 | Instrument ID: | VMS_G2 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | g2_8397.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 05/15/2013 2053 | Units: | ug/L | Final Weight/Volume: | 20 mL |
| Prep Date: | 05/15/2013 2053 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 5.00 | 4.91 | 98 | 50 - 140 | |
| Isopropylbenzene | 5.00 | 4.91 | 98 | 75 - 125 | |
| Methyl tert-butyl ether | 5.00 | 5.24 | 105 | 65 - 125 | |
| Methylene Chloride | 5.00 | 5.01 | 100 | 55 - 140 | |
| m-Xylene & p-Xylene | 10.0 | 10.0 | 100 | 75 - 130 | |
| Naphthalene | 5.00 | 4.68 | 94 | 55 - 140 | |
| n-Butylbenzene | 5.00 | 4.77 | 95 | 70 - 135 | |
| N-Propylbenzene | 5.00 | 4.68 | 94 | 70 - 130 | |
| o-Xylene | 5.00 | 4.84 | 97 | 80 - 120 | |
| sec-Butylbenzene | 5.00 | 4.91 | 98 | 70 - 125 | |
| Styrene | 5.00 | 4.95 | 99 | 65 - 135 | |
| tert-Butylbenzene | 5.00 | 4.79 | 96 | 70 - 130 | |
| Tetrachloroethene | 5.00 | 5.09 | 102 | 45 - 150 | |
| Toluene | 5.00 | 5.13 | 103 | 75 - 120 | |
| trans-1,2-Dichloroethene | 5.00 | 5.12 | 102 | 60 - 140 | |
| trans-1,3-Dichloropropene | 5.00 | 5.04 | 101 | 55 - 140 | |
| Trichloroethene | 5.00 | 4.91 | 98 | 70 - 125 | |
| Trichlorofluoromethane | 5.00 | 5.10 | 102 | 60 - 145 | |
| Vinyl chloride | 5.00 | 4.89 | 98 | 50 - 145 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 118 | 70 - 120 |
| 4-Bromofluorobenzene (Surr) | 97 | 75 - 120 |
| Dibromofluoromethane (Surr) | 114 | 85 - 115 |
| Toluene-d8 (Surr) | 102 | 85 - 120 |

**Method Blank - Batch: 280-173661** **Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-173661/1-A | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Client Matrix: | Solid | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 05/15/2013 1007 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Aluminum | 2.92 | J | 1.5 | 47 |
| Antimony | 0.57 | U | 0.36 | 1.9 |
| Arsenic | 0.94 | U | 0.62 | 2.4 |
| Barium | 0.118 | J | 0.072 | 1.9 |
| Beryllium | 0.066 | U | 0.031 | 0.47 |
| Boron | 1.21 | J | 0.92 | 9.4 |
| Cadmium | 0.094 | U | 0.039 | 0.47 |
| Calcium | 19 | U | 13 | 94 |
| Chromium | 0.14 | U Q | 0.055 | 3.3 |
| Cobalt | 0.19 | U | 0.094 | 0.94 |
| Copper | 0.47 | U Q | 0.20 | 4.7 |
| Iron | 4.7 | U | 3.6 | 75 |
| Lead | 0.75 | U | 0.25 | 0.85 |
| Magnesium | 4.7 | U | 3.5 | 28 |
| Manganese | 0.14 | U Q | 0.094 | 4.2 |
| Molybdenum | 0.47 | U | 0.25 | 2.4 |
| Nickel | 0.19 | U | 0.12 | 3.8 |
| Potassium | 47 | U | 39 | 280 |
| Selenium | 1.1 | U | 0.81 | 2.8 |
| Silver | 0.19 | U | 0.15 | 1.4 |
| Thallium | 1.1 | U | 0.61 | 2.8 |
| Vanadium | 0.19 | U Q | 0.089 | 1.9 |

**Method Blank - Batch: 280-173661** **Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-173661/1-A | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Client Matrix: | Solid | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 05/16/2013 1404 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Sodium | 94 | U | 56 | 470 |
| Zinc | 0.75 | U | 0.38 | 7.5 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-173661**

**Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-173661/2-A | Analysis Batch: | 280-174408 | Instrument ID: | MT_026 |
| Client Matrix: | Solid | Prep Batch: | 280-173661 | Lab File ID: | 26E051413.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.04 g |
| Analysis Date: | 05/15/2013 1009 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Aluminum | 192 | 187 | 97 | 80 - 120 | |
| Antimony | 48.1 | 48.4 | 101 | 80 - 120 | |
| Arsenic | 96.2 | 98.3 | 102 | 80 - 120 | |
| Barium | 192 | 197 | 103 | 80 - 120 | |
| Beryllium | 4.81 | 4.64 | 96 | 80 - 120 | |
| Boron | 96.2 | 110 | 115 | 80 - 120 | |
| Cadmium | 9.62 | 9.99 | 104 | 80 - 120 | |
| Calcium | 4810 | 4790 | 100 | 80 - 120 | |
| Chromium | 19.2 | 19.2 | 100 | 80 - 120 | Q |
| Cobalt | 48.1 | 48.3 | 101 | 80 - 120 | |
| Copper | 24.0 | 24.1 | 100 | 80 - 120 | Q |
| Iron | 96.2 | 96.5 | 100 | 80 - 120 | |
| Lead | 48.1 | 48.0 | 100 | 80 - 120 | |
| Magnesium | 4810 | 5030 | 105 | 80 - 120 | |
| Manganese | 48.1 | 49.2 | 102 | 80 - 120 | Q |
| Molybdenum | 96.2 | 93.9 | 98 | 80 - 120 | |
| Nickel | 48.1 | 48.0 | 100 | 80 - 120 | |
| Potassium | 4810 | 4970 | 103 | 80 - 120 | |
| Selenium | 192 | 195 | 101 | 80 - 120 | |
| Silver | 4.81 | 5.33 | 111 | 80 - 120 | |
| Thallium | 192 | 186 | 97 | 80 - 120 | |
| Vanadium | 48.1 | 48.8 | 102 | 80 - 120 | Q |

**Lab Control Sample - Batch: 280-173661**

**Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-173661/2-A | Analysis Batch: | 280-174753 | Instrument ID: | MT_026 |
| Client Matrix: | Solid | Prep Batch: | 280-173661 | Lab File ID: | 26a051613.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.04 g |
| Analysis Date: | 05/16/2013 1407 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 05/10/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Sodium | 4810 | 4960 | 103 | 80 - 120 | |
| Zinc | 48.1 | 44.7 | 93 | 80 - 120 | |

**Method Blank - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174378/1-A | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1528 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Aluminum | 31 | U | 18 | 300 |
| Antimony | 8.0 | U | 3.1 | 20 |
| Arsenic | 12 | U | 4.4 | 25 |
| Barium | 1.5 | U | 0.58 | 10 |
| Beryllium | 0.50 | U | 0.47 | 1.5 |
| Cadmium | 0.80 | U | 0.45 | 5.0 |
| Calcium | 80 | U | 35 | 1000 |
| Chromium | 1.5 | U Q | 0.66 | 15 |
| Cobalt | 2.0 | U | 1.2 | 15 |
| Copper | 3.5 | U Q | 1.4 | 15 |
| Lead | 5.0 | U | 2.6 | 15 |
| Magnesium | 25 | U | 11 | 500 |
| Molybdenum | 7.0 | U | 3.1 | 30 |
| Nickel | 3.0 | U | 1.3 | 40 |
| Potassium | 250 | U | 240 | 3000 |
| Selenium | 12 | U | 4.9 | 22 |
| Silver | 2.0 | U | 0.93 | 15 |
| Thallium | 12 | U | 4.9 | 40 |
| Vanadium | 2.5 | U Q | 1.1 | 15 |
| Zinc | 13 | U | 4.5 | 150 |

**Method Blank - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-174378/1-A | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1454 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Boron | 7.0 | U | 4.4 | 100 |
| Manganese | 0.440 | J Q | 0.25 | 10 |
| Sodium | 250 | U | 92 | 5000 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Lab Control Sample - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174378/2-A | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1531 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Aluminum | 2000 | 2030 | 101 | 80 - 120 | |
| Antimony | 500 | 526 | 105 | 80 - 120 | |
| Arsenic | 1000 | 1010 | 101 | 80 - 120 | |
| Barium | 2000 | 2060 | 103 | 80 - 120 | |
| Beryllium | 50.0 | 50.9 | 102 | 80 - 120 | |
| Cadmium | 100 | 106 | 106 | 80 - 120 | |
| Calcium | 50000 | 50600 | 101 | 80 - 120 | |
| Chromium | 200 | 205 | 103 | 80 - 120 | Q |
| Cobalt | 500 | 509 | 102 | 80 - 120 | |
| Copper | 250 | 260 | 104 | 80 - 120 | Q |
| Lead | 500 | 511 | 102 | 80 - 120 | |
| Magnesium | 50000 | 51400 | 103 | 80 - 120 | |
| Molybdenum | 1000 | 1040 | 104 | 80 - 120 | |
| Nickel | 500 | 508 | 102 | 80 - 120 | |
| Potassium | 50000 | 53500 | 107 | 80 - 120 | |
| Selenium | 2000 | 2080 | 104 | 80 - 120 | |
| Silver | 50.0 | 53.8 | 108 | 80 - 120 | |
| Thallium | 2000 | 2080 | 104 | 80 - 120 | |
| Vanadium | 500 | 515 | 103 | 80 - 120 | Q |
| Zinc | 500 | 509 | 102 | 80 - 120 | |

**Lab Control Sample - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-174378/2-A | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1457 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Boron | 1000 | 974 | 97 | 86 - 110 | |
| Manganese | 500 | 506 | 101 | 80 - 120 | Q |
| Sodium | 50000 | 52000 | 104 | 80 - 120 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Post Digestion Spike - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1542 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|---|---|
| Aluminum | 31 | U | 1000 | 1050 | 105 | 75 - 125 | |
| Antimony | 8.0 | U | 100 | 107 | 107 | 75 - 125 | |
| Arsenic | 12 | U | 200 | 201 | 100 | 75 - 125 | |
| Barium | 0.82 | J | 100 | 106 | 105 | 75 - 125 | |
| Beryllium | 0.50 | U | 50.0 | 51.3 | 103 | 75 - 125 | |
| Cadmium | 0.80 | U | 50.0 | 53.0 | 106 | 75 - 125 | |
| Calcium | 80 | U | 20000 | 20400 | 102 | 75 - 125 | |
| Chromium | 1.5 | U | 50.0 | 52.3 | 105 | 75 - 125 | Q |
| Cobalt | 2.0 | U | 50.0 | 52.4 | 105 | 75 - 125 | |
| Copper | 3.5 | U | 50.0 | 54.4 | 109 | 75 - 125 | Q |
| Lead | 5.0 | U | 100 | 107 | 107 | 75 - 125 | |
| Magnesium | 25 | U | 20000 | 20700 | 104 | 75 - 125 | |
| Molybdenum | 7.0 | U | 50.0 | 54.1 | 108 | 75 - 125 | |
| Nickel | 3.0 | U | 50.0 | 51.6 | 103 | 75 - 125 | |
| Potassium | 250 | U | 20000 | 21600 | 108 | 75 - 125 | |
| Selenium | 12 | U | 200 | 205 | 103 | 75 - 125 | |
| Silver | 2.0 | U | 50.0 | 51.9 | 104 | 75 - 125 | |
| Thallium | 12 | U | 200 | 214 | 107 | 75 - 125 | |
| Vanadium | 2.5 | U | 50.0 | 52.8 | 106 | 75 - 125 | Q |
| Zinc | 13 | U | 200 | 213 | 107 | 75 - 125 | |

**Post Digestion Spike - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1508 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|---|---|
| Boron | 7.0 | U | 100 | 102 | 102 | 75 - 125 | |
| Manganese | 0.69 | J | 50.0 | 53.4 | 105 | 75 - 125 | Q |
| Sodium | 250 | U | 20000 | 21300 | 106 | 75 - 125 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1538 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1540 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Aluminum | 103 | 101 | 80 - 120 | 2 | 20 | | |
| Antimony | 108 | 106 | 80 - 120 | 1 | 20 | | |
| Arsenic | 102 | 101 | 80 - 120 | 2 | 20 | | |
| Barium | 104 | 102 | 80 - 120 | 1 | 20 | | |
| Beryllium | 103 | 101 | 80 - 120 | 2 | 20 | | |
| Cadmium | 107 | 106 | 80 - 120 | 1 | 20 | | |
| Calcium | 103 | 101 | 80 - 120 | 1 | 20 | | |
| Chromium | 104 | 102 | 80 - 120 | 2 | 20 | Q | Q |
| Cobalt | 104 | 102 | 80 - 120 | 2 | 20 | | |
| Copper | 104 | 103 | 80 - 120 | 1 | 20 | Q | Q |
| Lead | 104 | 102 | 80 - 120 | 2 | 20 | | |
| Magnesium | 103 | 102 | 80 - 120 | 1 | 20 | | |
| Molybdenum | 105 | 105 | 80 - 120 | 1 | 20 | | |
| Nickel | 103 | 101 | 80 - 120 | 1 | 20 | | |
| Potassium | 108 | 107 | 80 - 120 | 1 | 20 | | |
| Selenium | 106 | 104 | 80 - 120 | 2 | 20 | | |
| Silver | 110 | 108 | 80 - 120 | 2 | 20 | | |
| Thallium | 106 | 104 | 80 - 120 | 2 | 20 | | |
| Vanadium | 104 | 102 | 80 - 120 | 1 | 20 | Q | Q |
| Zinc | 102 | 102 | 80 - 120 | 1 | 20 | | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1504 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1506 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Boron | 97 | 98 | 87 - 113 | 1 | 20 | | |
| Manganese | 99 | 100 | 80 - 120 | 1 | 20 | Q | Q |
| Sodium | 102 | 101 | 80 - 120 | 1 | 20 | | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 280-42039-11 | Units: | ug/L | MSD Lab Sample ID: | 280-42039-11 |
| Client Matrix: | Water | | | Client Matrix: | Water |
| Dilution: | 1.0 | | | Dilution: | 1.0 |
| Analysis Date: | 05/18/2013 1538 | | | Analysis Date: | 05/18/2013 1540 |
| Prep Date: | 05/17/2013 0730 | | | Prep Date: | 05/17/2013 0730 |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 31 | U | 2000 | 2000 | 2060 | | 2030 | |
| Antimony | 8.0 | U | 500 | 500 | 538 | | 531 | |
| Arsenic | 12 | U | 1000 | 1000 | 1020 | | 1010 | |
| Barium | 0.82 | J | 2000 | 2000 | 2080 | | 2050 | |
| Beryllium | 0.50 | U | 50.0 | 50.0 | 51.6 | | 50.4 | |
| Cadmium | 0.80 | U | 100 | 100 | 107 | | 106 | |
| Calcium | 80 | U | 50000 | 50000 | 51300 | | 50600 | |
| Chromium | 1.5 | U | 200 | 200 | 208 | Q | 204 | Q |
| Cobalt | 2.0 | U | 500 | 500 | 518 | | 508 | |
| Copper | 3.5 | U | 250 | 250 | 260 | Q | 257 | Q |
| Lead | 5.0 | U | 500 | 500 | 519 | | 510 | |
| Magnesium | 25 | U | 50000 | 50000 | 51500 | | 51000 | |
| Molybdenum | 7.0 | U | 1000 | 1000 | 1050 | | 1050 | |
| Nickel | 3.0 | U | 500 | 500 | 514 | | 506 | |
| Potassium | 250 | U | 50000 | 50000 | 54200 | | 53600 | |
| Selenium | 12 | U | 2000 | 2000 | 2110 | | 2070 | |
| Silver | 2.0 | U | 50.0 | 50.0 | 54.9 | | 54.1 | |
| Thallium | 12 | U | 2000 | 2000 | 2110 | | 2080 | |
| Vanadium | 2.5 | U | 500 | 500 | 518 | Q | 511 | Q |
| Zinc | 13 | U | 500 | 500 | 512 | | 508 | |

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 280-42039-11 | Units: | ug/L | MSD Lab Sample ID: | 280-42039-11 |
| Client Matrix: | Water | | | Client Matrix: | Water |
| Dilution: | 1.0 | | | Dilution: | 1.0 |
| Analysis Date: | 05/21/2013 1504 | | | Analysis Date: | 05/21/2013 1506 |
| Prep Date: | 05/17/2013 0730 | | | Prep Date: | 05/17/2013 0730 |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Boron | 7.0 | U | 1000 | 1000 | 971 | | 983 | |
| Manganese | 0.69 | J | 500 | 500 | 497 | Q | 499 | Q |
| Sodium | 250 | U | 50000 | 50000 | 50900 | | 50700 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Serial Dilution - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175050 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26b051813.asc |
| Dilution: | 5.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/18/2013 1535 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | | Result | %Diff | Limit | Qual |
|---|---|---|---|---|---|---|
| Aluminum | 31 | U | 160 | NC | 10 | U |
| Antimony | 8.0 | U | 40 | NC | 10 | U |
| Arsenic | 12 | U | 60 | NC | 10 | U |
| Barium | 0.82 | J | 3.45 | NC | 10 | J D |
| Beryllium | 0.50 | U | 2.5 | NC | 10 | U |
| Cadmium | 0.80 | U | 4.0 | NC | 10 | U |
| Calcium | 80 | U | 400 | NC | 10 | U |
| Chromium | 1.5 | U | 7.5 | NC | 10 | U Q |
| Cobalt | 2.0 | U | 10 | NC | 10 | U |
| Copper | 3.5 | U | 18 | NC | 10 | U Q |
| Lead | 5.0 | U | 25 | NC | 10 | U |
| Magnesium | 25 | U | 130 | NC | 10 | U |
| Molybdenum | 7.0 | U | 35 | NC | 10 | U |
| Nickel | 3.0 | U | 15 | NC | 10 | U |
| Potassium | 250 | U | 1300 | NC | 10 | U |
| Selenium | 12 | U | 60 | NC | 10 | U |
| Silver | 2.0 | U | 10 | NC | 10 | U |
| Thallium | 12 | U | 60 | NC | 10 | U |
| Vanadium | 2.5 | U | 13 | NC | 10 | U Q |
| Zinc | 13 | U | 65 | NC | 10 | U |

**Serial Dilution - Batch: 280-174378**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175407 | Instrument ID: | MT_026 |
| Client Matrix: | Water | Prep Batch: | 280-174378 | Lab File ID: | 26A052113.asc |
| Dilution: | 5.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/21/2013 1501 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/17/2013 0730 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | | Result | %Diff | Limit | Qual |
|---|---|---|---|---|---|---|
| Boron | 7.0 | U | 35 | NC | 10 | U |
| Manganese | 0.69 | J | 1.70 | NC | 10 | J Q D |
| Sodium | 250 | U | 1300 | NC | 10 | U |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Method Blank - Batch: 280-175463**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-175463/1-A | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Client Matrix: | Water | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1621 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Iron | 30.3 | J | 22 | 100 |

**Lab Control Sample - Batch: 280-175463**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-175463/2-A | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Client Matrix: | Water | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1623 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Iron | 1000 | 960 | 96 | 80 - 120 | |

**Post Digestion Spike - Batch: 280-175463**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Client Matrix: | Water | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1634 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|---|---|
| Iron | 29 | J | 1000 | 1050 | 102 | 75 - 125 | |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 280-175463**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Client Matrix: | Water | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1630 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Client Matrix: | Water | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1632 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Iron | 105 | 86 | 80 - 120 | 19 | 20 | | |

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 280-175463**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 280-42039-11 | Units: | ug/L | MSD Lab Sample ID: | 280-42039-11 |
| Client Matrix: | Water | | | Client Matrix: | Water |
| Dilution: | 1.0 | | | Dilution: | 1.0 |
| Analysis Date: | 05/23/2013 1630 | | | Analysis Date: | 05/23/2013 1632 |
| Prep Date: | 05/23/2013 0700 | | | Prep Date: | 05/23/2013 0700 |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | MSD Result/Qual |
|---|---|---|---|---|---|---|
| Iron | 29 | J | 1000 | 1000 | 1080 | 891 |

**Serial Dilution - Batch: 280-175463**

**Method: 6010C**
**Preparation: 3010A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-42039-11 | Analysis Batch: | 280-175815 | Instrument ID: | MT_025 |
| Client Matrix: | Water | Prep Batch: | 280-175463 | Lab File ID: | 25A2052313.asc |
| Dilution: | 5.0 | Leach Batch: | N/A | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 05/23/2013 1628 | Units: | ug/L | Final Weight/Volume: | 50 mL |
| Prep Date: | 05/23/2013 0700 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | | Result | %Diff | Limit | Qual |
|---|---|---|---|---|---|---|
| Iron | 29 | J | 147 | NC | 10 | J D |

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Duplicate - Batch: 280-175935**

**Method: Moisture**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-42039-10 | Analysis Batch: | 280-175935 | Instrument ID: | No Equipment |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | |
| Analysis Date: | 05/24/2013 1315 | Units: | % | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---|---|---|---|---|---|
| Percent Moisture | 9.0 | 9.3 | 3 | 20 | |
| Percent Solids | 91 | 91 | 0.3 | 20 | |

## DATA REPORTING QUALIFIERS

Client: FPM Remediations Inc Job Number: 280-42039-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | J | Estimated: The analyte was positively identified; the quantitation is an estimation |
| | U | Undetected at the Limit of Detection. |
| Metals | | |
| | J | Estimated: The analyte was positively identified; the quantitation is an estimation |
| | Q | One or more quality control criteria failed. |
| | D | The reported value is from a dilution. |
| | U | Undetected at the Limit of Detection. |

Client: FPM Remediations Inc

Job Number: 280-42039-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS VOA** | | | | | |
| **Analysis Batch:280-173812** | | | | | |
| LCS 280-173812/5 | Lab Control Sample | T | Water | 8260C | |
| MB 280-173812/6 | Method Blank | T | Water | 8260C | |
| 280-42039-11EB | 050613AE | T | Water | 8260C | |
| **Analysis Batch:280-174063** | | | | | |
| LCS 280-174063/34 | Lab Control Sample | T | Water | 8260C | |
| MB 280-174063/35 | Method Blank | T | Water | 8260C | |
| 280-42039-12FB | 050613AF | T | Water | 8260C | |
| **Analysis Batch:280-174465** | | | | | |
| LCS 280-174465/5 | Lab Control Sample | T | Water | 8260C | |
| MB 280-174465/6 | Method Blank | T | Water | 8260C | |
| 280-42039-13TB | 050613AR | T | Water | 8260C | |
| **Analysis Batch:280-174695** | | | | | |
| LCS 280-174775/2-A | Lab Control Sample | T | Solid | 8260B/DoD | 280-174775 |
| MB 280-174775/1-A | Method Blank | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-1 | B255SCS0104AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-2 | B255SCS0108AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-3 | B255SCS0112AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-4 | B255SCS0204AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-5 | B255SCS0208AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-6 | B255SCS0212AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-7 | B255SCS0304AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-8 | B255SCS0308AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-9 | B255SCS0312AA | T | Solid | 8260B/DoD | 280-174775 |
| 280-42039-10FD | B255SCS0104AC | T | Solid | 8260B/DoD | 280-174775 |
| **Prep Batch: 280-174775** | | | | | |
| LCS 280-174775/2-A | Lab Control Sample | T | Solid | 5030B | |
| MB 280-174775/1-A | Method Blank | T | Solid | 5030B | |
| 280-42039-1 | B255SCS0104AA | T | Solid | 5030B | |
| 280-42039-2 | B255SCS0108AA | T | Solid | 5030B | |
| 280-42039-3 | B255SCS0112AA | T | Solid | 5030B | |
| 280-42039-4 | B255SCS0204AA | T | Solid | 5030B | |
| 280-42039-5 | B255SCS0208AA | T | Solid | 5030B | |
| 280-42039-6 | B255SCS0212AA | T | Solid | 5030B | |
| 280-42039-7 | B255SCS0304AA | T | Solid | 5030B | |
| 280-42039-8 | B255SCS0308AA | T | Solid | 5030B | |
| 280-42039-9 | B255SCS0312AA | T | Solid | 5030B | |
| 280-42039-10FD | B255SCS0104AC | T | Solid | 5030B | |

**Report Basis**

T = Total

Client: FPM Remediations Inc

Job Number: 280-42039-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 280-173661** | | | | | |
| LCS 280-173661/2-A | Lab Control Sample | T | Solid | 3050B | |
| MB 280-173661/1-A | Method Blank | T | Solid | 3050B | |
| 280-42039-1 | B255SCS0104AA | T | Solid | 3050B | |
| 280-42039-2 | B255SCS0108AA | T | Solid | 3050B | |
| 280-42039-3 | B255SCS0112AA | T | Solid | 3050B | |
| 280-42039-4 | B255SCS0204AA | T | Solid | 3050B | |
| 280-42039-5 | B255SCS0208AA | T | Solid | 3050B | |
| 280-42039-6 | B255SCS0212AA | T | Solid | 3050B | |
| 280-42039-7 | B255SCS0304AA | T | Solid | 3050B | |
| 280-42039-8 | B255SCS0308AA | T | Solid | 3050B | |
| 280-42039-9 | B255SCS0312AA | T | Solid | 3050B | |
| 280-42039-10FD | B255SCS0104AC | T | Solid | 3050B | |
| **Prep Batch: 280-174378** | | | | | |
| LCS 280-174378/2-A | Lab Control Sample | T | Water | 3010A | |
| MB 280-174378/1-A | Method Blank | T | Water | 3010A | |
| 280-42039-11EB | 050613AE | T | Water | 3010A | |
| 280-42039-11MS | Matrix Spike | T | Water | 3010A | |
| 280-42039-11MSD | Matrix Spike Duplicate | T | Water | 3010A | |
| **Analysis Batch:280-174408** | | | | | |
| LCS 280-173661/2-A | Lab Control Sample | T | Solid | 6010C | 280-173661 |
| MB 280-173661/1-A | Method Blank | T | Solid | 6010C | 280-173661 |
| 280-42039-1 | B255SCS0104AA | T | Solid | 6010C | 280-173661 |
| 280-42039-2 | B255SCS0108AA | T | Solid | 6010C | 280-173661 |
| 280-42039-3 | B255SCS0112AA | T | Solid | 6010C | 280-173661 |
| 280-42039-4 | B255SCS0204AA | T | Solid | 6010C | 280-173661 |
| 280-42039-5 | B255SCS0208AA | T | Solid | 6010C | 280-173661 |
| 280-42039-6 | B255SCS0212AA | T | Solid | 6010C | 280-173661 |
| 280-42039-7 | B255SCS0304AA | T | Solid | 6010C | 280-173661 |
| 280-42039-8 | B255SCS0308AA | T | Solid | 6010C | 280-173661 |
| 280-42039-9 | B255SCS0312AA | T | Solid | 6010C | 280-173661 |
| 280-42039-10FD | B255SCS0104AC | T | Solid | 6010C | 280-173661 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:280-174753** | | | | | |
| LCS 280-173661/2-A | Lab Control Sample | T | Solid | 6010C | 280-173661 |
| MB 280-173661/1-A | Method Blank | T | Solid | 6010C | 280-173661 |
| 280-42039-1 | B255SCS0104AA | T | Solid | 6010C | 280-173661 |
| 280-42039-2 | B255SCS0108AA | T | Solid | 6010C | 280-173661 |
| 280-42039-3 | B255SCS0112AA | T | Solid | 6010C | 280-173661 |
| 280-42039-4 | B255SCS0204AA | T | Solid | 6010C | 280-173661 |
| 280-42039-5 | B255SCS0208AA | T | Solid | 6010C | 280-173661 |
| 280-42039-6 | B255SCS0212AA | T | Solid | 6010C | 280-173661 |
| 280-42039-7 | B255SCS0304AA | T | Solid | 6010C | 280-173661 |
| 280-42039-8 | B255SCS0308AA | T | Solid | 6010C | 280-173661 |
| 280-42039-9 | B255SCS0312AA | T | Solid | 6010C | 280-173661 |
| 280-42039-10FD | B255SCS0104AC | T | Solid | 6010C | 280-173661 |
| **Analysis Batch:280-174937** | | | | | |
| 280-42039-9 | B255SCS0312AA | T | Solid | 6010C | 280-173661 |
| **Analysis Batch:280-175050** | | | | | |
| LCS 280-174378/2-A | Lab Control Sample | T | Water | 6010C | 280-174378 |
| MB 280-174378/1-A | Method Blank | T | Water | 6010C | 280-174378 |
| 280-42039-11EB | 050613AE | T | Water | 6010C | 280-174378 |
| 280-42039-11MS | Matrix Spike | T | Water | 6010C | 280-174378 |
| 280-42039-11MSD | Matrix Spike Duplicate | T | Water | 6010C | 280-174378 |
| **Analysis Batch:280-175407** | | | | | |
| LCS 280-174378/2-A | Lab Control Sample | T | Water | 6010C | 280-174378 |
| MB 280-174378/1-A | Method Blank | T | Water | 6010C | 280-174378 |
| 280-42039-11EB | 050613AE | T | Water | 6010C | 280-174378 |
| 280-42039-11MS | Matrix Spike | T | Water | 6010C | 280-174378 |
| 280-42039-11MSD | Matrix Spike Duplicate | T | Water | 6010C | 280-174378 |
| **Prep Batch: 280-175463** | | | | | |
| LCS 280-175463/2-A | Lab Control Sample | T | Water | 3010A | |
| MB 280-175463/1-A | Method Blank | T | Water | 3010A | |
| 280-42039-11EB | 050613AE | T | Water | 3010A | |
| 280-42039-11MS | Matrix Spike | T | Water | 3010A | |
| 280-42039-11MSD | Matrix Spike Duplicate | T | Water | 3010A | |
| **Analysis Batch:280-175815** | | | | | |
| LCS 280-175463/2-A | Lab Control Sample | T | Water | 6010C | 280-175463 |
| MB 280-175463/1-A | Method Blank | T | Water | 6010C | 280-175463 |
| 280-42039-11EB | 050613AE | T | Water | 6010C | 280-175463 |
| 280-42039-11MS | Matrix Spike | T | Water | 6010C | 280-175463 |
| 280-42039-11MSD | Matrix Spike Duplicate | T | Water | 6010C | 280-175463 |

Client: FPM Remediations Inc

Job Number: 280-42039-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Report Basis** | | | | | |
| T = Total | | | | | |
| **General Chemistry** | | | | | |
| **Analysis Batch:280-175935** | | | | | |
| 280-42039-1 | B255SCS0104AA | T | Solid | Moisture | |
| 280-42039-2 | B255SCS0108AA | T | Solid | Moisture | |
| 280-42039-3 | B255SCS0112AA | T | Solid | Moisture | |
| 280-42039-4 | B255SCS0204AA | T | Solid | Moisture | |
| 280-42039-5 | B255SCS0208AA | T | Solid | Moisture | |
| 280-42039-6 | B255SCS0212AA | T | Solid | Moisture | |
| 280-42039-7 | B255SCS0304AA | T | Solid | Moisture | |
| 280-42039-8 | B255SCS0308AA | T | Solid | Moisture | |
| 280-42039-9 | B255SCS0312AA | T | Solid | Moisture | |
| 280-42039-10FD | B255SCS0104AC | T | Solid | Moisture | |
| 280-42039-10DU | Duplicate | T | Solid | Moisture | |
| **Report Basis** | | | | | |
| T = Total | | | | | |

Client: FPM Remediations Inc Job Number: 280-42039-1

## Laboratory Chronicle

**Lab ID: 280-42039-1** **Client ID: B255SCS0104AA**

Sample Date/Time: 05/06/2013 14:40 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-1-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-1-A | | 280-174695 | 280-174775 | 05/17/2013 10:23 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-1-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-1-A | | 280-174408 | 280-173661 | 05/15/2013 10:45 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-1-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-1-A | | 280-174753 | 280-173661 | 05/16/2013 14:43 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-1 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-2** **Client ID: B255SCS0108AA**

Sample Date/Time: 05/06/2013 14:55 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-2-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-2-A | | 280-174695 | 280-174775 | 05/17/2013 10:43 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-2-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-2-A | | 280-174408 | 280-173661 | 05/15/2013 10:47 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-2-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-2-A | | 280-174753 | 280-173661 | 05/16/2013 14:45 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-2 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-3** **Client ID: B255SCS0112AA**

Sample Date/Time: 05/06/2013 15:00 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-3-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-3-A | | 280-174695 | 280-174775 | 05/17/2013 11:02 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-3-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-3-A | | 280-174408 | 280-173661 | 05/15/2013 10:50 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-3-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-3-A | | 280-174753 | 280-173661 | 05/16/2013 14:48 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-3 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

Client: FPM Remediations Inc Job Number: 280-42039-1

## Laboratory Chronicle

**Lab ID: 280-42039-4** **Client ID: B255SCS0204AA**

Sample Date/Time: 05/06/2013 15:15 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-4-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-4-A | | 280-174695 | 280-174775 | 05/17/2013 11:21 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-4-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-4-A | | 280-174408 | 280-173661 | 05/15/2013 10:52 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-4-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-4-A | | 280-174753 | 280-173661 | 05/16/2013 15:00 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-4 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-5** **Client ID: B255SCS0208AA**

Sample Date/Time: 05/06/2013 15:19 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-5-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-5-A | | 280-174695 | 280-174775 | 05/17/2013 11:41 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-5-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-5-A | | 280-174408 | 280-173661 | 05/15/2013 11:04 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-5-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-5-A | | 280-174753 | 280-173661 | 05/16/2013 15:02 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-5 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-6** **Client ID: B255SCS0212AA**

Sample Date/Time: 05/06/2013 15:25 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-6-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-6-A | | 280-174695 | 280-174775 | 05/17/2013 12:00 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-6-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-6-A | | 280-174408 | 280-173661 | 05/15/2013 11:07 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-6-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-6-A | | 280-174753 | 280-173661 | 05/16/2013 15:04 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-6 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

Client: FPM Remediations Inc Job Number: 280-42039-1

## Laboratory Chronicle

**Lab ID: 280-42039-7** **Client ID: B255SCS0304AA**

Sample Date/Time: 05/06/2013 15:45 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-7-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-7-A | | 280-174695 | 280-174775 | 05/17/2013 12:19 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-7-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-7-A | | 280-174408 | 280-173661 | 05/15/2013 11:09 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-7-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-7-A | | 280-174753 | 280-173661 | 05/16/2013 15:07 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-7 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-8** **Client ID: B255SCS0308AA**

Sample Date/Time: 05/06/2013 15:52 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-8-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-8-A | | 280-174695 | 280-174775 | 05/17/2013 12:39 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-8-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-8-A | | 280-174408 | 280-173661 | 05/15/2013 11:12 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-8-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-8-A | | 280-174753 | 280-173661 | 05/16/2013 15:09 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-8 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-9** **Client ID: B255SCS0312AA**

Sample Date/Time: 05/06/2013 15:59 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-9-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-9-A | | 280-174695 | 280-174775 | 05/17/2013 12:58 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-9-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-9-A | | 280-174408 | 280-173661 | 05/15/2013 11:14 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-9-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-9-A | | 280-174753 | 280-173661 | 05/16/2013 15:12 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-9-A ^5 | | 280-174937 | 280-173661 | 05/10/2013 13:00 | 5 | TAL DEN | RC |
| A:6010C | 280-42039-A-9-A ^5 | | 280-174937 | 280-173661 | 05/17/2013 13:01 | 5 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-9 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

Client: FPM Remediations Inc Job Number: 280-42039-1

## Laboratory Chronicle

**Lab ID: 280-42039-10** **Client ID: B255SCS0104AC**

Sample Date/Time: 05/06/2013 14:42 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-B-10-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | 280-42039-B-10-A | | 280-174695 | 280-174775 | 05/17/2013 13:18 | 1 | TAL DEN | GPM |
| P:3050B | 280-42039-A-10-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-10-A | | 280-174408 | 280-173661 | 05/15/2013 11:16 | 1 | TAL DEN | HEB |
| P:3050B | 280-42039-A-10-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-A-10-A | | 280-174753 | 280-173661 | 05/16/2013 15:14 | 1 | TAL DEN | HEB |
| A:Moisture | 280-42039-B-10 | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-10 DU** **Client ID: B255SCS0104AC**

Sample Date/Time: 05/06/2013 14:42 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| A:Moisture | 280-42039-B-10 DU | | 280-175935 | | 05/24/2013 13:15 | 1 | TAL DEN | JS |

**Lab ID: 280-42039-11** **Client ID: 050613AE**

Sample Date/Time: 05/06/2013 16:30 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-D-11 | | 280-173812 | | 05/11/2013 06:56 | 1 | TAL DEN | SAT |
| A:8260C | 280-42039-D-11 | | 280-173812 | | 05/11/2013 06:56 | 1 | TAL DEN | SAT |
| P:3010A | 280-42039-F-11-A | | 280-175050 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-A | | 280-175050 | 280-174378 | 05/18/2013 15:33 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-A | | 280-175407 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-A | | 280-175407 | 280-174378 | 05/21/2013 14:59 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-D | | 280-175815 | 280-175463 | 05/23/2013 07:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-F-11-D | | 280-175815 | 280-175463 | 05/23/2013 16:25 | 1 | TAL DEN | JKH |

**Lab ID: 280-42039-11 MS** **Client ID: 050613AE**

Sample Date/Time: 05/06/2013 16:30 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3010A | 280-42039-F-11-B MS | | 280-175050 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-B MS | | 280-175050 | 280-174378 | 05/18/2013 15:38 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-B MS | | 280-175407 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-B MS | | 280-175407 | 280-174378 | 05/21/2013 15:04 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-E MS | | 280-175815 | 280-175463 | 05/23/2013 07:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-F-11-E MS | | 280-175815 | 280-175463 | 05/23/2013 16:30 | 1 | TAL DEN | JKH |

Client: FPM Remediations Inc Job Number: 280-42039-1

## Laboratory Chronicle

**Lab ID:** 280-42039-11 MSD **Client ID:** 050613AE

Sample Date/Time: 05/06/2013 16:30 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3010A | 280-42039-F-11-C MSD | | 280-175050 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-C MSD | | 280-175050 | 280-174378 | 05/18/2013 15:40 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-C MSD | | 280-175407 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-C MSD | | 280-175407 | 280-174378 | 05/21/2013 15:06 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-F MSD | | 280-175815 | 280-175463 | 05/23/2013 07:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-F-11-F MSD | | 280-175815 | 280-175463 | 05/23/2013 16:32 | 1 | TAL DEN | JKH |

**Lab ID:** 280-42039-11 SD **Client ID:** 050613AE

Sample Date/Time: 05/06/2013 16:30 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3010A | 280-42039-F-11-A SD ^5 | | 280-175050 | 280-174378 | 05/17/2013 07:30 | 5 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-A SD ^5 | | 280-175050 | 280-174378 | 05/18/2013 15:35 | 5 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-A PDS | | 280-175050 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-A PDS | | 280-175050 | 280-174378 | 05/18/2013 15:42 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-A SD ^5 | | 280-175407 | 280-174378 | 05/17/2013 07:30 | 5 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-A SD ^5 | | 280-175407 | 280-174378 | 05/21/2013 15:01 | 5 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-A PDS | | 280-175407 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | 280-42039-F-11-A PDS | | 280-175407 | 280-174378 | 05/21/2013 15:08 | 1 | TAL DEN | HEB |
| P:3010A | 280-42039-F-11-D SD ^5 | | 280-175815 | 280-175463 | 05/23/2013 07:00 | 5 | TAL DEN | RC |
| A:6010C | 280-42039-F-11-D SD ^5 | | 280-175815 | 280-175463 | 05/23/2013 16:28 | 5 | TAL DEN | JKH |
| P:3010A | 280-42039-F-11-D PDS | | 280-175815 | 280-175463 | 05/23/2013 07:00 | 1 | TAL DEN | RC |
| A:6010C | 280-42039-F-11-D PDS | | 280-175815 | 280-175463 | 05/23/2013 16:34 | 1 | TAL DEN | JKH |

**Lab ID:** 280-42039-12 **Client ID:** 050613AF

Sample Date/Time: 05/06/2013 15:30 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-C-12 | | 280-174063 | | 05/14/2013 01:11 | 1 | TAL DEN | SAT |
| A:8260C | 280-42039-C-12 | | 280-174063 | | 05/14/2013 01:11 | 1 | TAL DEN | SAT |

Client: FPM Remediations Inc

Job Number: 280-42039-1

## Laboratory Chronicle

**Lab ID:** 280-42039-13 **Client ID:** 050613AR

Sample Date/Time: 05/06/2013 09:00 Received Date/Time: 05/08/2013 09:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | 280-42039-C-13 | | 280-174465 | | 05/15/2013 23:49 | 1 | TAL DEN | MRM |
| A:8260C | 280-42039-C-13 | | 280-174465 | | 05/15/2013 23:49 | 1 | TAL DEN | MRM |

**Lab ID:** MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | MB 280-174775/1-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | MB 280-174775/1-A | | 280-174695 | 280-174775 | 05/17/2013 09:21 | 1 | TAL DEN | GPM |
| P:5030B | MB 280-173812/6 | | 280-173812 | | 05/10/2013 20:57 | 1 | TAL DEN | SAT |
| A:8260C | MB 280-173812/6 | | 280-173812 | | 05/10/2013 20:57 | 1 | TAL DEN | SAT |
| P:5030B | MB 280-174063/35 | | 280-174063 | | 05/13/2013 23:21 | 1 | TAL DEN | SAT |
| A:8260C | MB 280-174063/35 | | 280-174063 | | 05/13/2013 23:21 | 1 | TAL DEN | SAT |
| P:5030B | MB 280-174465/6 | | 280-174465 | | 05/15/2013 21:12 | 1 | TAL DEN | MRM |
| A:8260C | MB 280-174465/6 | | 280-174465 | | 05/15/2013 21:12 | 1 | TAL DEN | MRM |
| P:3050B | MB 280-173661/1-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | MB 280-173661/1-A | | 280-174408 | 280-173661 | 05/15/2013 10:07 | 1 | TAL DEN | HEB |
| P:3050B | MB 280-173661/1-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | MB 280-173661/1-A | | 280-174753 | 280-173661 | 05/16/2013 14:04 | 1 | TAL DEN | HEB |
| P:3010A | MB 280-174378/1-A | | 280-175050 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | MB 280-174378/1-A | | 280-175050 | 280-174378 | 05/18/2013 15:28 | 1 | TAL DEN | HEB |
| P:3010A | MB 280-174378/1-A | | 280-175407 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | MB 280-174378/1-A | | 280-175407 | 280-174378 | 05/21/2013 14:54 | 1 | TAL DEN | HEB |
| P:3010A | MB 280-175463/1-A | | 280-175815 | 280-175463 | 05/23/2013 07:00 | 1 | TAL DEN | RC |
| A:6010C | MB 280-175463/1-A | | 280-175815 | 280-175463 | 05/23/2013 16:21 | 1 | TAL DEN | JKH |

Client: FPM Remediations Inc

Job Number: 280-42039-1

## Laboratory Chronicle

**Lab ID:** LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5030B | LCS 280-174775/2-A | | 280-174695 | 280-174775 | 05/17/2013 06:00 | 1 | TAL DEN | GPM |
| A:8260B/DoD | LCS 280-174775/2-A | | 280-174695 | 280-174775 | 05/17/2013 09:02 | 1 | TAL DEN | GPM |
| P:5030B | LCS 280-173812/5 | | 280-173812 | | 05/10/2013 20:35 | 1 | TAL DEN | SAT |
| A:8260C | LCS 280-173812/5 | | 280-173812 | | 05/10/2013 20:35 | 1 | TAL DEN | SAT |
| P:5030B | LCS 280-174063/34 | | 280-174063 | | 05/13/2013 22:59 | 1 | TAL DEN | SAT |
| A:8260C | LCS 280-174063/34 | | 280-174063 | | 05/13/2013 22:59 | 1 | TAL DEN | SAT |
| P:5030B | LCS 280-174465/5 | | 280-174465 | | 05/15/2013 20:53 | 1 | TAL DEN | MRM |
| A:8260C | LCS 280-174465/5 | | 280-174465 | | 05/15/2013 20:53 | 1 | TAL DEN | MRM |
| P:3050B | LCS 280-173661/2-A | | 280-174408 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | LCS 280-173661/2-A | | 280-174408 | 280-173661 | 05/15/2013 10:09 | 1 | TAL DEN | HEB |
| P:3050B | LCS 280-173661/2-A | | 280-174753 | 280-173661 | 05/10/2013 13:00 | 1 | TAL DEN | RC |
| A:6010C | LCS 280-173661/2-A | | 280-174753 | 280-173661 | 05/16/2013 14:07 | 1 | TAL DEN | HEB |
| P:3010A | LCS 280-174378/2-A | | 280-175050 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | LCS 280-174378/2-A | | 280-175050 | 280-174378 | 05/18/2013 15:31 | 1 | TAL DEN | HEB |
| P:3010A | LCS 280-174378/2-A | | 280-175407 | 280-174378 | 05/17/2013 07:30 | 1 | TAL DEN | JA |
| A:6010C | LCS 280-174378/2-A | | 280-175407 | 280-174378 | 05/21/2013 14:57 | 1 | TAL DEN | HEB |
| P:3010A | LCS 280-175463/2-A | | 280-175815 | 280-175463 | 05/23/2013 07:00 | 1 | TAL DEN | RC |
| A:6010C | LCS 280-175463/2-A | | 280-175815 | 280-175463 | 05/23/2013 16:23 | 1 | TAL DEN | JKH |

**Lab References:**

TAL DEN = TestAmerica Denver

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **Alt As Se Zn_00002** | 03/01/14 | 05/14/13 | 5%5%HNO3HCL, Lot See Reagent Log | 1000 mL | 1000 As_00009 | 0.015 mL | Arsenic | 0.015 ppm |
| | | | | | 1000 Se_00007 | 0.015 mL | Selenium | 0.015 ppm |
| | | | | | 1000 Zn_00006 | 0.02 mL | Zinc | 0.02 ppm |
| .1000 As_00009 | 03/01/14 | Inorganic Venture, Lot F2-AS02083 | | | (Purchased Reagent) | | Arsenic | 1000 mg/L |
| .1000 Se_00007 | 05/01/14 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| .1000 Zn_00006 | 04/01/14 | Inorganic Ventures, Lot F2-ZN02075 | | | (Purchased Reagent) | | Zinc | 1000 mg/L |
| **Alt CRI_00038** | 10/01/13 | 05/17/13 | 5%5%HNO3HCL, Lot See Reagent Log | 1000 mL | 1000 As_00009 | 0.02 mL | Arsenic | 0.02 ppm |
| | | | | | 1000 Pb_00011 | 0.009 mL | Lead | 0.009 ppm |
| | | | | | 1000 Se_00007 | 0.015 mL | Selenium | 0.015 ppm |
| | | | | | 1000 Zn_00006 | 0.02 mL | Zinc | 0.02 ppm |
| .1000 As_00009 | 03/01/14 | Inorganic Venture, Lot F2-AS02083 | | | (Purchased Reagent) | | Arsenic | 1000 mg/L |
| .1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| .1000 Se_00007 | 05/01/14 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| .1000 Zn_00006 | 04/01/14 | Inorganic Ventures, Lot F2-ZN02075 | | | (Purchased Reagent) | | Zinc | 1000 mg/L |
| **Alt Fe Pb Zn_00003** | 10/01/13 | 05/18/13 | 5%5%HNO3HCL, Lot See Reagent Log | 1000 mL | 1000 Pb_00011 | 0.009 mL | Lead | 0.009 ppm |
| | | | | | 1000 Zn_00006 | 0.02 mL | Zinc | 0.02 ppm |
| | | | | | 10000 Fe_00008 | 0.006 mL | Iron | 0.06 ppm |
| .1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| .1000 Zn_00006 | 04/01/14 | Inorganic Ventures, Lot F2-ZN02075 | | | (Purchased Reagent) | | Zinc | 1000 mg/L |
| .10000 Fe_00008 | 01/01/14 | Inorganic Ventures, Lot F2-FE04007 | | | (Purchased Reagent) | | Iron | 10000 mg/L |
| **Alt Pb Sb Zn_00003** | 10/01/13 | 05/16/13 | 5%5%HNO3HCL, Lot See Reagent Log | 1000 mL | 1000 Pb_00011 | 0.009 mL | Lead | 0.009 ppm |
| | | | | | 1000 Sb_00007 | 0.02 mL | Antimony | 0.02 ppm |
| | | | | | 1000 Zn_00006 | 0.02 mL | Zinc | 0.02 ppm |
| .1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| .1000 Sb_00007 | 10/01/13 | Inorganic Ventures, Lot F2-SB03010 | | | (Purchased Reagent) | | Antimony | 1000 mg/L |
| .1000 Zn_00006 | 04/01/14 | Inorganic Ventures, Lot F2-ZN02075 | | | (Purchased Reagent) | | Zinc | 1000 mg/L |
| **Alt Pb Tl Zn_00001** | 10/01/13 | 05/21/13 | 5%5%HNO3HCL, Lot See Reagent Log | 1000 mL | 1000 Pb_00011 | 0.009 mL | Lead | 0.009 ppm |
| | | | | | 1000 Tl_00006 | 0.02 mL | Thallium | 0.02 ppm |
| | | | | | 1000 Zn_00006 | 0.02 mL | Zinc | 0.02 ppm |
| .1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| .1000 Tl_00006 | 10/01/13 | Inorganic Ventures, Lot E2-TL01124 | | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| .1000 Zn_00006 | 04/01/14 | Inorganic Ventures, Lot F2-ZN02075 | | | (Purchased Reagent) | | Zinc | 1000 mg/L |
| **ALT Se_00046** | 10/01/13 | 05/23/13 | 5% HNO3/5%HCl, Lot see reagent log | 1000 mL | 1000 Se_00006 | 0.02 mL | Selenium | 0.02 mg/L |
| .1000 Se_00006 | 10/01/13 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| **ICP CCVH_00263** | 08/01/13 | 05/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL2A_00173 | 250 mL | Aluminum | 50 mg/L |
| | | | | | | | Iron | 50 mg/L |
| | | | | | | | Sodium | 250 mg/L |
| .ICP ICAL2A_00173 | 08/01/13 | 05/11/13 | 5%HCl/5% HNO3, Lot see reagent log | 1000 mL | 10000 Al_00008 | 10 mL | Aluminum | 100 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | 10000 Fe_00008 | 10 mL | Iron | 100 mg/L |
| | | | | | 10000 Na_00023 | 50 mL | Sodium | 500 mg/L |
| ..10000 Al_00008 | 01/01/14 | Inorganic Ventures, Lot F2-AL04115 | | | (Purchased Reagent) | | Aluminum | 10000 mg/L |
| ..10000 Fe_00008 | 01/01/14 | Inorganic Ventures, Lot F2-FE04007 | | | (Purchased Reagent) | | Iron | 10000 mg/L |
| ..10000 Na_00023 | 03/01/14 | Inorganic Ventures, Lot F2-NA03103 | | | (Purchased Reagent) | | Sodium | 10000 mg/L |
| **ICP CCVH_00264** | 08/01/13 | 05/17/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL2A_00174 | 250 mL | Aluminum | 50 mg/L |
| | | | | | | | Iron | 50 mg/L |
| | | | | | | | Sodium | 250 mg/L |
| .ICP ICAL2A_00174 | 08/01/13 | 05/17/13 | 5%HCl/5% HNO3, Lot see reagent log | 1000 mL | 10000 Al_00008 | 10 mL | Aluminum | 100 mg/L |
| | | | | | 10000 Fe_00008 | 10 mL | Iron | 100 mg/L |
| | | | | | 10000 Na_00023 | 50 mL | Sodium | 500 mg/L |
| ..10000 Al_00008 | 01/01/14 | Inorganic Ventures, Lot F2-AL04115 | | | (Purchased Reagent) | | Aluminum | 10000 mg/L |
| ..10000 Fe_00008 | 01/01/14 | Inorganic Ventures, Lot F2-FE04007 | | | (Purchased Reagent) | | Iron | 10000 mg/L |
| ..10000 Na_00023 | 03/01/14 | Inorganic Ventures, Lot F2-NA03103 | | | (Purchased Reagent) | | Sodium | 10000 mg/L |
| **ICP CCVH_00265** | 08/01/13 | 05/23/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL2A_00175 | 250 mL | Aluminum | 50 mg/L |
| | | | | | | | Iron | 50 mg/L |
| | | | | | | | Sodium | 250 mg/L |
| .ICP ICAL2A_00175 | 08/01/13 | 05/23/13 | 5%HCl/5% HNO3, Lot see reagent log | 1000 mL | 10000 Al_00008 | 10 mL | Aluminum | 100 mg/L |
| | | | | | 10000 Fe_00008 | 10 mL | Iron | 100 mg/L |
| | | | | | 10000 Na_00023 | 50 mL | Sodium | 500 mg/L |
| ..10000 Al_00008 | 01/01/14 | Inorganic Ventures, Lot F2-AL04115 | | | (Purchased Reagent) | | Aluminum | 10000 mg/L |
| ..10000 Fe_00008 | 01/01/14 | Inorganic Ventures, Lot F2-FE04007 | | | (Purchased Reagent) | | Iron | 10000 mg/L |
| ..10000 Na_00023 | 03/01/14 | Inorganic Ventures, Lot F2-NA03103 | | | (Purchased Reagent) | | Sodium | 10000 mg/L |
| **ICP CCVL_00311** | 09/01/13 | 05/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL1A_00288 | 250 mL | Arsenic | 1 mg/L |
| | | | | | | | Lead | 1 mg/L |
| | | | | | | | Antimony | 1 mg/L |
| | | | | | | | Selenium | 1 mg/L |
| | | | | | | | Thallium | 1 mg/L |
| | | | | | | | Molybdenum | 0.5 mg/L |
| | | | | | | | Aluminum | 0.5 mg/L |
| | | | | | | | Barium | 0.5 mg/L |
| | | | | | | | Beryllium | 0.5 mg/L |
| | | | | | | | Boron | 0.5 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 5 mg/L |
| | | | | | | | Chromium | 0.5 mg/L |
| | | | | | | | Cobalt | 0.5 mg/L |
| | | | | | | | Copper | 0.5 mg/L |
| | | | | | | | Iron | 2.5 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 0.5 mg/L |
| | | | | | | | Nickel | 0.5 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Potassium | 50 mg/L |
| | | | | | | | Silver | 0.5 mg/L |
| | | | | | | | Sodium | 5 mg/L |
| | | | | | | | Vanadium | 0.5 mg/L |
| | | | | | | | Zinc | 0.5 mg/L |
| .ICP ICAL1A_00288 | 09/01/13 | 05/11/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | 1000 As_00008 | 1 mL | Arsenic | 2 mg/L |
| | | | | | 1000 Pb_00011 | 1 mL | Lead | 2 mg/L |
| | | | | | 1000 Sb_00007 | 1 mL | Antimony | 2 mg/L |
| | | | | | 1000 Se_00006 | 1 mL | Selenium | 2 mg/L |
| | | | | | 1000 Tl_00006 | 1 mL | Thallium | 2 mg/L |
| | | | | | Icp cal std 2_00006 | 5 mL | Molybdenum | 1 mg/L |
| | | | | | Icp cal std 3_00006 | 5 mL | Aluminum | 1 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 1 mg/L |
| | | | | | | | Cadmium | 1 mg/L |
| | | | | | | | Calcium | 10 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1 mg/L |
| | | | | | | | Iron | 5 mg/L |
| | | | | | | | Magnesium | 40 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 1 mg/L |
| | | | | | | | Potassium | 100 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 10 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 1 mg/L |
| ..1000 As_00008 | 09/01/13 | Inorganic Venture, Lot F2-AS02083 | | | (Purchased Reagent) | | Arsenic | 1000 mg/L |
| ..1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| ..1000 Sb_00007 | 10/01/13 | Inorganic Ventures, Lot F2-SB03010 | | | (Purchased Reagent) | | Antimony | 1000 mg/L |
| ..1000 Se_00006 | 10/01/13 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| ..1000 Tl_00006 | 10/01/13 | Inorganic Ventures, Lot E2-TL01124 | | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| ..Icp cal std 2_00006 | 11/01/13 | Inorganic Ventures, Lot E2-meb407033 | | | (Purchased Reagent) | | Molybdenum | 100 mg/L |
| ..Icp cal std 3_00006 | 11/01/13 | Inorganic Ventures, Lot F2-meb443149 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 100 mg/L |
| | | | | | | | Beryllium | 100 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 100 mg/L |
| | | | | | | | Calcium | 1000 mg/L |
| | | | | | | | Chromium | 100 mg/L |
| | | | | | | | Cobalt | 100 mg/L |
| | | | | | | | Copper | 100 mg/L |
| | | | | | | | Iron | 500 mg/L |
| | | | | | | | Magnesium | 4000 mg/L |
| | | | | | | | Manganese | 100 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Nickel | 100 mg/L |
| | | | | | | | Potassium | 10000 mg/L |
| | | | | | | | Silver | 100 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 100 mg/L |
| | | | | | | | Zinc | 100 mg/L |
| **ICP CCVL_00312** | 09/01/13 | 05/17/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL1A_00289 | 250 mL | Arsenic | 1 mg/L |
| | | | | | | | Lead | 1 mg/L |
| | | | | | | | Antimony | 1 mg/L |
| | | | | | | | Selenium | 1 mg/L |
| | | | | | | | Thallium | 1 mg/L |
| | | | | | | | Molybdenum | 0.5 mg/L |
| | | | | | | | Aluminum | 0.5 mg/L |
| | | | | | | | Barium | 0.5 mg/L |
| | | | | | | | Beryllium | 0.5 mg/L |
| | | | | | | | Boron | 0.5 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 5 mg/L |
| | | | | | | | Chromium | 0.5 mg/L |
| | | | | | | | Cobalt | 0.5 mg/L |
| | | | | | | | Copper | 0.5 mg/L |
| | | | | | | | Iron | 2.5 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 0.5 mg/L |
| | | | | | | | Nickel | 0.5 mg/L |
| | | | | | | | Potassium | 50 mg/L |
| | | | | | | | Silver | 0.5 mg/L |
| | | | | | | | Sodium | 5 mg/L |
| | | | | | | | Vanadium | 0.5 mg/L |
| | | | | | | | Zinc | 0.5 mg/L |
| .ICP ICAL1A_00289 | 09/01/13 | 05/17/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | 1000 As_00008 | 1 mL | Arsenic | 2 mg/L |
| | | | | | 1000 Pb_00011 | 1 mL | Lead | 2 mg/L |
| | | | | | 1000 Sb_00007 | 1 mL | Antimony | 2 mg/L |
| | | | | | 1000 Se_00006 | 1 mL | Selenium | 2 mg/L |
| | | | | | 1000 Tl_00006 | 1 mL | Thallium | 2 mg/L |
| | | | | | Icp cal std 2_00006 | 5 mL | Molybdenum | 1 mg/L |
| | | | | | Icp cal std 3_00006 | 5 mL | Aluminum | 1 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 1 mg/L |
| | | | | | | | Cadmium | 1 mg/L |
| | | | | | | | Calcium | 10 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1 mg/L |
| | | | | | | | Iron | 5 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Magnesium | 40 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 1 mg/L |
| | | | | | | | Potassium | 100 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 10 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 1 mg/L |
| ..1000 As_00008 | 09/01/13 | Inorganic Venture, Lot F2-AS02083 | | | (Purchased Reagent) | | Arsenic | 1000 mg/L |
| ..1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| ..1000 Sb_00007 | 10/01/13 | Inorganic Ventures, Lot F2-SB03010 | | | (Purchased Reagent) | | Antimony | 1000 mg/L |
| ..1000 Se_00006 | 10/01/13 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| ..1000 Tl_00006 | 10/01/13 | Inorganic Ventures, Lot E2-TL01124 | | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| ..Icp cal std 2_00006 | 11/01/13 | Inorganic Ventures, Lot E2-meb407033 | | | (Purchased Reagent) | | Molybdenum | 100 mg/L |
| ..Icp cal std 3_00006 | 11/01/13 | Inorganic Ventures, Lot F2-meb443149 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 100 mg/L |
| | | | | | | | Beryllium | 100 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 100 mg/L |
| | | | | | | | Calcium | 1000 mg/L |
| | | | | | | | Chromium | 100 mg/L |
| | | | | | | | Cobalt | 100 mg/L |
| | | | | | | | Copper | 100 mg/L |
| | | | | | | | Iron | 500 mg/L |
| | | | | | | | Magnesium | 4000 mg/L |
| | | | | | | | Manganese | 100 mg/L |
| | | | | | | | Nickel | 100 mg/L |
| | | | | | | | Potassium | 10000 mg/L |
| | | | | | | | Silver | 100 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 100 mg/L |
| | | | | | | | Zinc | 100 mg/L |
| **ICP CCVL_00313** | 09/01/13 | 05/22/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL1A_00290 | 250 mL | Arsenic | 1 mg/L |
| | | | | | | | Lead | 1 mg/L |
| | | | | | | | Antimony | 1 mg/L |
| | | | | | | | Selenium | 1 mg/L |
| | | | | | | | Thallium | 1 mg/L |
| | | | | | | | Molybdenum | 0.5 mg/L |
| | | | | | | | Aluminum | 0.5 mg/L |
| | | | | | | | Barium | 0.5 mg/L |
| | | | | | | | Beryllium | 0.5 mg/L |
| | | | | | | | Boron | 0.5 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 5 mg/L |
| | | | | | | | Chromium | 0.5 mg/L |
| | | | | | | | Cobalt | 0.5 mg/L |
| | | | | | | | Copper | 0.5 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Iron | 2.5 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 0.5 mg/L |
| | | | | | | | Nickel | 0.5 mg/L |
| | | | | | | | Potassium | 50 mg/L |
| | | | | | | | Silver | 0.5 mg/L |
| | | | | | | | Sodium | 5 mg/L |
| | | | | | | | Vanadium | 0.5 mg/L |
| | | | | | | | Zinc | 0.5 mg/L |
| .ICP ICAL1A_00290 | 09/01/13 | 05/22/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | 1000 As_00008 | 1 mL | Arsenic | 2 mg/L |
| | | | | | 1000 Pb_00011 | 1 mL | Lead | 2 mg/L |
| | | | | | 1000 Sb_00007 | 1 mL | Antimony | 2 mg/L |
| | | | | | 1000 Se_00006 | 1 mL | Selenium | 2 mg/L |
| | | | | | 1000 Tl_00006 | 1 mL | Thallium | 2 mg/L |
| | | | | | Icp cal std 2_00006 | 5 mL | Molybdenum | 1 mg/L |
| | | | | | Icp cal std 3_00006 | 5 mL | Aluminum | 1 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 1 mg/L |
| | | | | | | | Cadmium | 1 mg/L |
| | | | | | | | Calcium | 10 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1 mg/L |
| | | | | | | | Iron | 5 mg/L |
| | | | | | | | Magnesium | 40 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 1 mg/L |
| | | | | | | | Potassium | 100 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 10 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 1 mg/L |
| ..1000 As_00008 | 09/01/13 | Inorganic Venture, Lot F2-AS02083 | | | (Purchased Reagent) | | Arsenic | 1000 mg/L |
| ..1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| ..1000 Sb_00007 | 10/01/13 | Inorganic Ventures, Lot F2-SB03010 | | | (Purchased Reagent) | | Antimony | 1000 mg/L |
| ..1000 Se_00006 | 10/01/13 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| ..1000 Tl_00006 | 10/01/13 | Inorganic Ventures, Lot E2-TL01124 | | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| ..Icp cal std 2_00006 | 11/01/13 | Inorganic Ventures, Lot E2-meb407033 | | | (Purchased Reagent) | | Molybdenum | 100 mg/L |
| ..Icp cal std 3_00006 | 11/01/13 | Inorganic Ventures, Lot F2-meb443149 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 100 mg/L |
| | | | | | | | Beryllium | 100 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 100 mg/L |
| | | | | | | | Calcium | 1000 mg/L |
| | | | | | | | Chromium | 100 mg/L |
| | | | | | | | Cobalt | 100 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Copper | 100 mg/L |
| | | | | | | | Iron | 500 mg/L |
| | | | | | | | Magnesium | 4000 mg/L |
| | | | | | | | Manganese | 100 mg/L |
| | | | | | | | Nickel | 100 mg/L |
| | | | | | | | Potassium | 10000 mg/L |
| | | | | | | | Silver | 100 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 100 mg/L |
| | | | | | | | Zinc | 100 mg/L |
| **ICP ICSA_00072** | 01/01/14 | 05/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 250 mL | Icp stk ICSA_00007 | 25 mL | Aluminum | 500 mg/L |
| | | | | | | | Calcium | 500 mg/L |
| | | | | | | | Iron | 200 mg/L |
| | | | | | | | Magnesium | 500 mg/L |
| .Icp stk ICSA_00007 | 01/01/14 | Inorganic Ventures, Lot F2-MEB414132 | | | (Purchased Reagent) | | Aluminum | 5000 mg/L |
| | | | | | | | Calcium | 5000 mg/L |
| | | | | | | | Iron | 2000 mg/L |
| | | | | | | | Magnesium | 5000 mg/L |
| **ICP ICSAB_00065** | 07/31/13 | 05/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 250 mL | 1000 Zr_00005 | 0.25 mL | Zr | 1 mg/L |
| | | | | | 10000 Si_00008 | 0.25 mL | Si | 10 mg/L |
| | | | | | | | SiO2 | 21.4 mg/L |
| | | | | | 10000 Th_00004 | 0.05 mL | Th | 2 mg/L |
| | | | | | ANALYTES B_00006 | 2.5 mL | Barium | 0.5 mg/L |
| | | | | | | | Beryllium | 0.5 mg/L |
| | | | | | | | Cadmium | 1 mg/L |
| | | | | | | | Chromium | 0.5 mg/L |
| | | | | | | | Cobalt | 0.5 mg/L |
| | | | | | | | Copper | 0.5 mg/L |
| | | | | | | | Lead | 1 mg/L |
| | | | | | | | Manganese | 0.5 mg/L |
| | | | | | | | Nickel | 1 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Vanadium | 0.5 mg/L |
| | | | | | | | Zinc | 1 mg/L |
| | | | | | ICP ISAB 1B_00005 | 2.5 mL | Thallium | 10 mg/L |
| | | | | | ICP ISAB STD1_00005 | 2.5 mL | Antimony | 1 mg/L |
| | | | | | | | Arsenic | 2 mg/L |
| | | | | | | | Boron | 2 mg/L |
| | | | | | | | Li | 1 mg/L |
| | | | | | | | Molybdenum | 1 mg/L |
| | | | | | | | P | 2 mg/L |
| | | | | | | | Potassium | 50 mg/L |
| | | | | | | | Selenium | 5 mg/L |
| | | | | | | | Sodium | 50 mg/L |
| | | | | | | | Sr | 1 mg/L |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | ICP ISAB STD2_00005 | 2.5 mL | Sn | 10 mg/L |
| | | | | | | | Ti | 1 mg/L |
| | | | | | Icp stk ICSA_00007 | 25 mL | Aluminum | 500 mg/L |
| | | | | | | | Calcium | 500 mg/L |
| | | | | | | | Iron | 200 mg/L |
| | | | | | | | Magnesium | 500 mg/L |
| .1000 Zr_00005 | 04/01/14 | | Spex, Lot F2-ZR01094 | | (Purchased Reagent) | | Zr | 1000 mg/L |
| .10000 Si_00008 | 04/01/14 | | Inorganic ventures, Lot F2-SI03018 | | (Purchased Reagent) | | Si | 10000 mg/L |
| | | | | | | | SiO2 | 21400 mg/L |
| .10000 Th_00004 | 01/01/14 | | Inorganic Ventures, Lot D2-TH01080 | | (Purchased Reagent) | | Th | 10000 mg/L |
| .ANALYTES B_00006 | 12/30/13 | | SPEX, Lot 7-166YPY | | (Purchased Reagent) | | Barium | 50 mg/L |
| | | | | | | | Beryllium | 50 mg/L |
| | | | | | | | Cadmium | 100 mg/L |
| | | | | | | | Chromium | 50 mg/L |
| | | | | | | | Cobalt | 50 mg/L |
| | | | | | | | Copper | 50 mg/L |
| | | | | | | | Lead | 100 mg/L |
| | | | | | | | Manganese | 50 mg/L |
| | | | | | | | Nickel | 100 mg/L |
| | | | | | | | Silver | 100 mg/L |
| | | | | | | | Vanadium | 50 mg/L |
| | | | | | | | Zinc | 100 mg/L |
| .ICP ISAB 1B_00005 | 04/11/14 | | High Purity, Lot 1309814 | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| .ICP ISAB STD1_00005 | 04/11/14 | | High Purity, Lot 1309813 | | (Purchased Reagent) | | Antimony | 100 mg/L |
| | | | | | | | Arsenic | 200 mg/L |
| | | | | | | | Boron | 200 mg/L |
| | | | | | | | Li | 100 mg/L |
| | | | | | | | Molybdenum | 100 mg/L |
| | | | | | | | P | 200 mg/L |
| | | | | | | | Potassium | 5000 mg/L |
| | | | | | | | Selenium | 500 mg/L |
| | | | | | | | Sodium | 5000 mg/L |
| | | | | | | | Sr | 100 mg/L |
| .ICP ISAB STD2_00005 | 04/11/14 | | High Purity, Lot 1309815 | | (Purchased Reagent) | | Sn | 1000 mg/L |
| | | | | | | | Ti | 100 mg/L |
| .Icp stk ICSA_00007 | 01/01/14 | | Inorganic Ventures, Lot F2-MEB414132 | | (Purchased Reagent) | | Aluminum | 5000 mg/L |
| | | | | | | | Calcium | 5000 mg/L |
| | | | | | | | Iron | 2000 mg/L |
| | | | | | | | Magnesium | 5000 mg/L |
| **ICP ICVH_00111** | 07/31/13 | 05/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 200 mL | Icp ICVH_00101 | 2 mL | Aluminum | 40 mg/L |
| | | | | | | | Iron | 80 mg/L |
| | | | | | | | Sodium | 40 mg/L |
| .Icp ICVH_00101 | 01/02/14 | | High Purity, Lot 1236313 | | (Purchased Reagent) | | Aluminum | 4000 mg/L |
| | | | | | | | Iron | 8000 mg/L |
| | | | | | | | Sodium | 4000 mg/L |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **ICP ICVL_00089** | 03/07/14 | 05/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 200 mL | Icp ICVL A_00005 | 2 mL | Aluminum | 0.25 mg/L |
| | | | | | | | Arsenic | 0.25 mg/L |
| | | | | | | | Barium | 0.25 mg/L |
| | | | | | | | Beryllium | 0.25 mg/L |
| | | | | | | | Boron | 0.25 mg/L |
| | | | | | | | Cadmium | 0.25 mg/L |
| | | | | | | | Calcium | 2 mg/L |
| | | | | | | | Chromium | 0.25 mg/L |
| | | | | | | | Cobalt | 0.25 mg/L |
| | | | | | | | Copper | 0.25 mg/L |
| | | | | | | | Iron | 0.25 mg/L |
| | | | | | | | Lead | 0.25 mg/L |
| | | | | | | | Magnesium | 10 mg/L |
| | | | | | | | Manganese | 0.25 mg/L |
| | | | | | | | Nickel | 0.25 mg/L |
| | | | | | | | Potassium | 20 mg/L |
| | | | | | | | Selenium | 0.5 mg/L |
| | | | | | | | Sodium | 2 mg/L |
| | | | | | | | Thallium | 0.5 mg/L |
| | | | | | | | Vanadium | 0.25 mg/L |
| | | | | | | | Zinc | 0.25 mg/L |
| | | | | | Icp ICVL B_00005 | 2 mL | Antimony | 0.25 mg/L |
| | | | | | | | Molybdenum | 0.25 mg/L |
| | | | | | | | Silver | 0.25 mg/L |
| .Icp ICVL A_00005 | 03/07/14 | | High Purity, Lot 1306335 | | (Purchased Reagent) | | Aluminum | 25 mg/L |
| | | | | | | | Arsenic | 25 mg/L |
| | | | | | | | Barium | 25 mg/L |
| | | | | | | | Beryllium | 25 mg/L |
| | | | | | | | Boron | 25 mg/L |
| | | | | | | | Cadmium | 25 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 25 mg/L |
| | | | | | | | Cobalt | 25 mg/L |
| | | | | | | | Copper | 25 mg/L |
| | | | | | | | Iron | 25 mg/L |
| | | | | | | | Lead | 25 mg/L |
| | | | | | | | Magnesium | 1000 mg/L |
| | | | | | | | Manganese | 25 mg/L |
| | | | | | | | Nickel | 25 mg/L |
| | | | | | | | Potassium | 2000 mg/L |
| | | | | | | | Selenium | 50 mg/L |
| | | | | | | | Sodium | 200 mg/L |
| | | | | | | | Thallium | 50 mg/L |
| | | | | | | | Vanadium | 25 mg/L |
| | | | | | | | Zinc | 25 mg/L |
| .Icp ICVL B_00005 | 03/07/14 | | HIGH PURITY, Lot 1306324 | | (Purchased Reagent) | | Antimony | 25 mg/L |
| | | | | | | | Molybdenum | 25 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Silver | 25 mg/L |
| **ICP LLCCV_00879** | 05/15/13 | 05/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00016 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Arsenic | 0.015 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00008 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00016 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453017 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Arsenic | 1.5 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 100 mg/L |
| | | | | | | | Thallium | 1.5 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 2 mg/L |
| .ICP LLCCV-2_00008 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453018 | | | (Purchased Reagent) | | Antimony | 1 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP LLCCV_00881** | 05/17/13 | 05/16/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00016 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Arsenic | 0.015 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00008 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00016 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453017 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Arsenic | 1.5 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 100 mg/L |
| | | | | | | | Thallium | 1.5 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 2 mg/L |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .ICP LLCCV-2_00008 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453018 | | | (Purchased Reagent) | | Antimony | 1 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP LLCCV_00882** | 05/18/13 | 05/17/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00016 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Arsenic | 0.015 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00008 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00016 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453017 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Arsenic | 1.5 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 100 mg/L |
| | | | | | | | Thallium | 1.5 mg/L |
| | | | | | | | Vanadium | 1 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Zinc | 2 mg/L |
| .ICP LLCCV-2_00008 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453018 | | | (Purchased Reagent) | | Antimony | 1 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP LLCCV_00883** | 05/19/13 | 05/18/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00016 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Arsenic | 0.015 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00008 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00016 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453017 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Arsenic | 1.5 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 100 mg/L |
| | | | | | | | Thallium | 1.5 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 2 mg/L |
| .ICP LLCCV-2_00008 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453018 | | | (Purchased Reagent) | | Antimony | 1 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP LLCCV_00885** | 05/22/13 | 05/21/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00016 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Arsenic | 0.015 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00008 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00016 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453017 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Arsenic | 1.5 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 100 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Thallium | 1.5 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 2 mg/L |
| .ICP LLCCV-2_00008 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453018 | | | (Purchased Reagent) | | Antimony | 1 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP LLCCV_00887** | 05/24/13 | 05/23/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00016 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Arsenic | 0.015 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00008 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00016 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453017 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Arsenic | 1.5 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Sodium | 100 mg/L |
| | | | | | | | Thallium | 1.5 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 2 mg/L |
| .ICP LLCCV-2_00008 | 01/01/14 | Inorganic Ventures, Lot F2-MEB453018 | | | (Purchased Reagent) | | Antimony | 1 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP PDS 1_00005** | 12/01/13 | Inorganic Ventures, Lot F2-MEB450027 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Arsenic | 20 mg/L |
| | | | | | | | Barium | 10 mg/L |
| | | | | | | | Beryllium | 5 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 2000 mg/L |
| | | | | | | | Chromium | 5 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 5 mg/L |
| | | | | | | | Iron | 100 mg/L |
| | | | | | | | Lead | 10 mg/L |
| | | | | | | | Magnesium | 2000 mg/L |
| | | | | | | | Manganese | 5 mg/L |
| | | | | | | | Nickel | 5 mg/L |
| | | | | | | | Potassium | 2000 mg/L |
| | | | | | | | Selenium | 20 mg/L |
| | | | | | | | Silver | 5 mg/L |
| | | | | | | | Sodium | 2000 mg/L |
| | | | | | | | Thallium | 20 mg/L |
| | | | | | | | Vanadium | 5 mg/L |
| | | | | | | | Zinc | 20 mg/L |
| **ICP PDS 2_00005** | 12/01/13 | Inorganic Ventures, Lot E2-MEB402025 | | | (Purchased Reagent) | | Antimony | 10 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 5 mg/L |
| **ICP RL STD_00897** | 05/15/13 | 05/14/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00005 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00004 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Iron | 0.03 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00005 | 0.1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Lead | 0.003 mg/L |
| | | | | | | | Thallium | 0.01 mg/L |
| .ICP RL STD 2A_00005 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425129 | | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00004 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425130 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Iron | 30 mg/L |
| | | | | | | | Magnesium | 200 mg/L |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| .ICP RLSTD 1A_00005 | 07/01/13 | Inorganic Ventures, Lot E2-MEB381083 | | | (Purchased Reagent) | | Antimony | 10 mg/L |
| | | | | | | | Lead | 3 mg/L |
| | | | | | | | Thallium | 10 mg/L |
| **ICP RL STD_00899** | 05/17/13 | 05/16/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00005 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00004 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Iron | 0.03 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00005 | 0.1 mL | Arsenic | 0.01 mg/L |
| | | | | | | | Selenium | 0.01 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Thallium | 0.01 mg/L |
| .ICP RL STD 2A_00005 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425129 | | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00004 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425130 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Iron | 30 mg/L |
| | | | | | | | Magnesium | 200 mg/L |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| .ICP RLSTD 1A_00005 | 07/01/13 | Inorganic Ventures, Lot E2-MEB381083 | | | (Purchased Reagent) | | Arsenic | 10 mg/L |
| | | | | | | | Selenium | 10 mg/L |
| | | | | | | | Thallium | 10 mg/L |
| **ICP RL STD_00900** | 05/18/13 | 05/17/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00005 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00004 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Iron | 0.03 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00005 | 0.1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Thallium | 0.01 mg/L |
| .ICP RL STD 2A_00005 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425129 | | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00004 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425130 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Iron | 30 mg/L |
| | | | | | | | Magnesium | 200 mg/L |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| .ICP RLSTD 1A_00005 | 07/01/13 | Inorganic Ventures, Lot E2-MEB381083 | | | (Purchased Reagent) | | Antimony | 10 mg/L |
| | | | | | | | Thallium | 10 mg/L |
| **ICP RL STD_00901** | 05/19/13 | 05/18/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00005 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00004 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00005 | 0.1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Arsenic | 0.01 mg/L |
| | | | | | | | Selenium | 0.01 mg/L |
| | | | | | | | Thallium | 0.01 mg/L |
| .ICP RL STD 2A_00005 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425129 | | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00004 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425130 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Magnesium | 200 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| .ICP RLSTD 1A_00005 | 07/01/13 | Inorganic Ventures, Lot E2-MEB381083 | | | (Purchased Reagent) | | Antimony | 10 mg/L |
| | | | | | | | Arsenic | 10 mg/L |
| | | | | | | | Selenium | 10 mg/L |
| | | | | | | | Thallium | 10 mg/L |
| **ICP RL STD_00903** | 05/22/13 | 05/21/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00005 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00004 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Iron | 0.03 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00005 | 0.1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Arsenic | 0.01 mg/L |
| | | | | | | | Selenium | 0.01 mg/L |
| .ICP RL STD 2A_00005 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425129 | | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00004 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425130 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Iron | 30 mg/L |
| | | | | | | | Magnesium | 200 mg/L |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| .ICP RLSTD 1A_00005 | 07/01/13 | Inorganic Ventures, Lot E2-MEB381083 | | | (Purchased Reagent) | | Antimony | 10 mg/L |
| | | | | | | | Arsenic | 10 mg/L |
| | | | | | | | Selenium | 10 mg/L |
| **ICP RL STD_00905** | 05/24/13 | 05/23/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00005 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00004 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Iron | 0.03 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00005 | 0.1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Arsenic | 0.01 mg/L |
| | | | | | | | Lead | 0.003 mg/L |
| | | | | | | | Thallium | 0.01 mg/L |
| .ICP RL STD 2A_00005 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425129 | | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00004 | 07/01/13 | Inorganic Ventures, Lot F2-MEB425130 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Iron | 30 mg/L |
| | | | | | | | Magnesium | 200 mg/L |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| .ICP RLSTD 1A_00005 | 07/01/13 | Inorganic Ventures, Lot E2-MEB381083 | | | (Purchased Reagent) | | Antimony | 10 mg/L |
| | | | | | | | Arsenic | 10 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Lead | 3 mg/L |
| | | | | | | | Thallium | 10 mg/L |
| **ICP SPK 2A_00059** | 05/01/14 | Inorganic Ventures, Lot G2-MEB455133 | | | (Purchased Reagent) | | Antimony | 50 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Molybdenum | 100 mg/L |
| | | | | | | | Si | 1000 mg/L |
| | | | | | | | SiO2 | 2140 mg/L |
| | | | | | | | Sn | 200 mg/L |
| | | | | | | | Ti | 100 mg/L |
| | | | | | | | Zr | 50 mg/L |
| **ICP SPK 3A_00061** | 05/01/14 | Inorganic Ventures, Lot G2-MEB465153 | | | (Purchased Reagent) | | Aluminum | 200 mg/L |
| | | | | | | | Arsenic | 100 mg/L |
| | | | | | | | Barium | 200 mg/L |
| | | | | | | | Beryllium | 5 mg/L |
| | | | | | | | Bi | 200 mg/L |
| | | | | | | | Cadmium | 10 mg/L |
| | | | | | | | Calcium | 5000 mg/L |
| | | | | | | | Chromium | 20 mg/L |
| | | | | | | | Cobalt | 50 mg/L |
| | | | | | | | Copper | 25 mg/L |
| | | | | | | | Iron | 100 mg/L |
| | | | | | | | Lead | 50 mg/L |
| | | | | | | | Li | 100 mg/L |
| | | | | | | | Magnesium | 5000 mg/L |
| | | | | | | | Manganese | 50 mg/L |
| | | | | | | | Nickel | 50 mg/L |
| | | | | | | | P | 1000 mg/L |
| | | | | | | | Potassium | 5000 mg/L |
| | | | | | | | Selenium | 200 mg/L |
| | | | | | | | Silver | 5 mg/L |
| | | | | | | | Sodium | 5000 mg/L |
| | | | | | | | Sr | 100 mg/L |
| | | | | | | | Th | 100 mg/L |
| | | | | | | | Thallium | 200 mg/L |
| | | | | | | | U | 200 mg/L |
| | | | | | | | Vanadium | 50 mg/L |
| | | | | | | | Zinc | 50 mg/L |
| **MV-2 Cleve_00013** | 04/29/13 | 10/29/12 | P&T Methanol, Lot Dg596 | 10 mL | MV-861206_00018 | 200 uL | 2-Chloroethyl vinyl ether | 40 ug/mL |
| .MV-861206_00018 | 05/31/14 | Supelco, Lot LB85080 | | | (Purchased Reagent) | | 2-Chloroethyl vinyl ether | 2000 ug/mL |
| **MV-2 Cleve_00014** | 09/20/13 | 03/20/13 | P&T Methanol, Lot Dh247 | 10 mL | MV-861206_00019 | 200 uL | 2-Chloroethyl vinyl ether | 40 ug/mL |
| .MV-861206_00019 | 05/31/14 | Supelco, Lot LB85080 | | | (Purchased Reagent) | | 2-Chloroethyl vinyl ether | 2000 ug/mL |
| **MV-524 A_00017** | 05/30/13 | 03/22/13 | Methanol, Lot dh379 | 10 mL | MV-DWM589N_00055 | 200 uL | 1,1,1,2-Tetrachloroethane | 40 ug/mL |
| | | | | | | | 1,1,1-Trichloroethane | 40 ug/mL |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 40 ug/mL |
| | | | | | | | 1,1,2-Trichloroethane | 40 ug/mL |
| | | | | | | | 1,1-Dichloroethane | 40 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,1-Dichloroethene | 40 ug/mL |
| | | | | | | | 1,1-Dichloropropene | 40 ug/mL |
| | | | | | | | 1,2,3-Trichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2,3-Trichloropropane | 40 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2,4-Trimethylbenzene | 40 ug/mL |
| | | | | | | | 1,2-Dibromo-3-Chloropropane | 40 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2-Dichloroethane | 40 ug/mL |
| | | | | | | | 1,2-Dichloropropane | 40 ug/mL |
| | | | | | | | 1,3,5-Trimethylbenzene | 40 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 1,3-Dichloropropane | 40 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 2,2-Dichloropropane | 40 ug/mL |
| | | | | | | | 2-Chlorotoluene | 40 ug/mL |
| | | | | | | | 4-Chlorotoluene | 40 ug/mL |
| | | | | | | | 4-Isopropyltoluene | 40 ug/mL |
| | | | | | | | Benzene | 40 ug/mL |
| | | | | | | | Bromobenzene | 40 ug/mL |
| | | | | | | | Bromoform | 40 ug/mL |
| | | | | | | | Carbon tetrachloride | 40 ug/mL |
| | | | | | | | Chlorobenzene | 40 ug/mL |
| | | | | | | | Chlorobromomethane | 40 ug/mL |
| | | | | | | | Chlorodibromomethane | 40 ug/mL |
| | | | | | | | Chloroform | 40 ug/mL |
| | | | | | | | cis-1,2-Dichloroethene | 40 ug/mL |
| | | | | | | | cis-1,3-Dichloropropene | 40 ug/mL |
| | | | | | | | Dibromomethane | 40 ug/mL |
| | | | | | | | Dichlorobromomethane | 40 ug/mL |
| | | | | | | | Ethylbenzene | 40 ug/mL |
| | | | | | | | Ethylene Dibromide | 40 ug/mL |
| | | | | | | | Hexachlorobutadiene | 40 ug/mL |
| | | | | | | | Isopropylbenzene | 40 ug/mL |
| | | | | | | | m-Xylene & p-Xylene | 80 ug/mL |
| | | | | | | | Methylene Chloride | 40 ug/mL |
| | | | | | | | n-Butylbenzene | 40 ug/mL |
| | | | | | | | N-Propylbenzene | 40 ug/mL |
| | | | | | | | Naphthalene | 40 ug/mL |
| | | | | | | | o-Xylene | 40 ug/mL |
| | | | | | | | sec-Butylbenzene | 40 ug/mL |
| | | | | | | | Styrene | 40 ug/mL |
| | | | | | | | tert-Butylbenzene | 40 ug/mL |
| | | | | | | | Tetrachloroethene | 40 ug/mL |
| | | | | | | | Toluene | 40 ug/mL |
| | | | | | | | trans-1,2-Dichloroethene | 40 ug/mL |
| | | | | | | | trans-1,3-Dichloropropene | 40 ug/mL |
| | | | | | | | Trichloroethene | 40 ug/mL |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MV-EPA1208_00039 | 400 uL | 1-Chlorohexane | 40 ug/mL |
| | | | | | MV-STS440_00045 | 200 uL | Methyl tert-butyl ether | 40 ug/mL |
| .MV-DWM589N_00055 | 11/30/14 | Ultra Scientific, Lot CG-3339 | | | (Purchased Reagent) | | 1,1,1,2-Tetrachloroethane | 2000 ug/mL |
| | | | | | | | 1,1,1-Trichloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2-Trichloroethane | 2000 ug/mL |
| | | | | | | | 1,1-Dichloroethane | 2000 ug/mL |
| | | | | | | | 1,1-Dichloroethene | 2000 ug/mL |
| | | | | | | | 1,1-Dichloropropene | 2000 ug/mL |
| | | | | | | | 1,2,3-Trichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2,3-Trichloropropane | 2000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2,4-Trimethylbenzene | 2000 ug/mL |
| | | | | | | | 1,2-Dibromo-3-Chloropropane | 2000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2-Dichloroethane | 2000 ug/mL |
| | | | | | | | 1,2-Dichloropropane | 2000 ug/mL |
| | | | | | | | 1,3,5-Trimethylbenzene | 2000 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,3-Dichloropropane | 2000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 2,2-Dichloropropane | 2000 ug/mL |
| | | | | | | | 2-Chlorotoluene | 2000 ug/mL |
| | | | | | | | 4-Chlorotoluene | 2000 ug/mL |
| | | | | | | | 4-Isopropyltoluene | 2000 ug/mL |
| | | | | | | | Benzene | 2000 ug/mL |
| | | | | | | | Bromobenzene | 2000 ug/mL |
| | | | | | | | Bromoform | 2000 ug/mL |
| | | | | | | | Carbon tetrachloride | 2000 ug/mL |
| | | | | | | | Chlorobenzene | 2000 ug/mL |
| | | | | | | | Chlorobromomethane | 2000 ug/mL |
| | | | | | | | Chlorodibromomethane | 2000 ug/mL |
| | | | | | | | Chloroform | 2000 ug/mL |
| | | | | | | | cis-1,2-Dichloroethene | 2000 ug/mL |
| | | | | | | | cis-1,3-Dichloropropene | 2000 ug/mL |
| | | | | | | | Dibromomethane | 2000 ug/mL |
| | | | | | | | Dichlorobromomethane | 2000 ug/mL |
| | | | | | | | Ethylbenzene | 2000 ug/mL |
| | | | | | | | Ethylene Dibromide | 2000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 2000 ug/mL |
| | | | | | | | Isopropylbenzene | 2000 ug/mL |
| | | | | | | | m-Xylene & p-Xylene | 4000 ug/mL |
| | | | | | | | Methylene Chloride | 2000 ug/mL |
| | | | | | | | n-Butylbenzene | 2000 ug/mL |
| | | | | | | | N-Propylbenzene | 2000 ug/mL |
| | | | | | | | Naphthalene | 2000 ug/mL |
| | | | | | | | o-Xylene | 2000 ug/mL |
| | | | | | | | sec-Butylbenzene | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Styrene | 2000 ug/mL |
| | | | | | | | tert-Butylbenzene | 2000 ug/mL |
| | | | | | | | Tetrachloroethene | 2000 ug/mL |
| | | | | | | | Toluene | 2000 ug/mL |
| | | | | | | | trans-1,2-Dichloroethene | 2000 ug/mL |
| | | | | | | | trans-1,3-Dichloropropene | 2000 ug/mL |
| | | | | | | | Trichloroethene | 2000 ug/mL |
| .MV-EPA1208_00039 | 05/30/15 | Ultra Scientific, Lot CJ-1332 | | | (Purchased Reagent) | | 1-Chlorohexane | 1000 ug/mL |
| .MV-STS440_00045 | 01/31/15 | Ultra, Lot cg-4444 | | | (Purchased Reagent) | | Methyl tert-butyl ether | 2000 ug/mL |
| **MV-524ICVA_00005** | 05/30/13 | 03/22/13 | Methanol, Lot dh379 | 10 mL | MV-DWM589N_00055 | 200 uL | 1,1,1,2-Tetrachloroethane | 40 ug/mL |
| | | | | | | | 1,1,1-Trichloroethane | 40 ug/mL |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 40 ug/mL |
| | | | | | | | 1,1,2-Trichloroethane | 40 ug/mL |
| | | | | | | | 1,1-Dichloroethane | 40 ug/mL |
| | | | | | | | 1,1-Dichloroethene | 40 ug/mL |
| | | | | | | | 1,1-Dichloropropene | 40 ug/mL |
| | | | | | | | 1,2,3-Trichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2,3-Trichloropropane | 40 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2,4-Trimethylbenzene | 40 ug/mL |
| | | | | | | | 1,2-Dibromo-3-Chloropropane | 40 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2-Dichloroethane | 40 ug/mL |
| | | | | | | | 1,2-Dichloropropane | 40 ug/mL |
| | | | | | | | 1,3,5-Trimethylbenzene | 40 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 1,3-Dichloropropane | 40 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 2,2-Dichloropropane | 40 ug/mL |
| | | | | | | | 2-Chlorotoluene | 40 ug/mL |
| | | | | | | | 4-Chlorotoluene | 40 ug/mL |
| | | | | | | | 4-Isopropyltoluene | 40 ug/mL |
| | | | | | | | Benzene | 40 ug/mL |
| | | | | | | | Bromobenzene | 40 ug/mL |
| | | | | | | | Bromoform | 40 ug/mL |
| | | | | | | | Carbon tetrachloride | 40 ug/mL |
| | | | | | | | Chlorobenzene | 40 ug/mL |
| | | | | | | | Chlorobromomethane | 40 ug/mL |
| | | | | | | | Chlorodibromomethane | 40 ug/mL |
| | | | | | | | Chloroform | 40 ug/mL |
| | | | | | | | cis-1,2-Dichloroethene | 40 ug/mL |
| | | | | | | | cis-1,3-Dichloropropene | 40 ug/mL |
| | | | | | | | Dibromomethane | 40 ug/mL |
| | | | | | | | Dichlorobromomethane | 40 ug/mL |
| | | | | | | | Ethylbenzene | 40 ug/mL |
| | | | | | | | Ethylene Dibromide | 40 ug/mL |
| | | | | | | | Hexachlorobutadiene | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Isopropylbenzene | 40 ug/mL |
| | | | | | | | m-Xylene & p-Xylene | 80 ug/mL |
| | | | | | | | Methylene Chloride | 40 ug/mL |
| | | | | | | | n-Butylbenzene | 40 ug/mL |
| | | | | | | | N-Propylbenzene | 40 ug/mL |
| | | | | | | | Naphthalene | 40 ug/mL |
| | | | | | | | o-Xylene | 40 ug/mL |
| | | | | | | | sec-Butylbenzene | 40 ug/mL |
| | | | | | | | Styrene | 40 ug/mL |
| | | | | | | | tert-Butylbenzene | 40 ug/mL |
| | | | | | | | Tetrachloroethene | 40 ug/mL |
| | | | | | | | Toluene | 40 ug/mL |
| | | | | | | | trans-1,2-Dichloroethene | 40 ug/mL |
| | | | | | | | trans-1,3-Dichloropropene | 40 ug/mL |
| | | | | | | | Trichloroethene | 40 ug/mL |
| | | | | | MV-EPA1208_00039 | 400 uL | 1-Chlorohexane | 40 ug/mL |
| .MV-DWM589N_00055 | 11/30/14 | Ultra Scientific, Lot CG-3339 | | | (Purchased Reagent) | | 1,1,1,2-Tetrachloroethane | 2000 ug/mL |
| | | | | | | | 1,1,1-Trichloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2-Trichloroethane | 2000 ug/mL |
| | | | | | | | 1,1-Dichloroethane | 2000 ug/mL |
| | | | | | | | 1,1-Dichloroethene | 2000 ug/mL |
| | | | | | | | 1,1-Dichloropropene | 2000 ug/mL |
| | | | | | | | 1,2,3-Trichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2,3-Trichloropropane | 2000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2,4-Trimethylbenzene | 2000 ug/mL |
| | | | | | | | 1,2-Dibromo-3-Chloropropane | 2000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2-Dichloroethane | 2000 ug/mL |
| | | | | | | | 1,2-Dichloropropane | 2000 ug/mL |
| | | | | | | | 1,3,5-Trimethylbenzene | 2000 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,3-Dichloropropane | 2000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 2,2-Dichloropropane | 2000 ug/mL |
| | | | | | | | 2-Chlorotoluene | 2000 ug/mL |
| | | | | | | | 4-Chlorotoluene | 2000 ug/mL |
| | | | | | | | 4-Isopropyltoluene | 2000 ug/mL |
| | | | | | | | Benzene | 2000 ug/mL |
| | | | | | | | Bromobenzene | 2000 ug/mL |
| | | | | | | | Bromoform | 2000 ug/mL |
| | | | | | | | Carbon tetrachloride | 2000 ug/mL |
| | | | | | | | Chlorobenzene | 2000 ug/mL |
| | | | | | | | Chlorobromomethane | 2000 ug/mL |
| | | | | | | | Chlorodibromomethane | 2000 ug/mL |
| | | | | | | | Chloroform | 2000 ug/mL |
| | | | | | | | cis-1,2-Dichloroethene | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | cis-1,3-Dichloropropene | 2000 ug/mL |
| | | | | | | | Dibromomethane | 2000 ug/mL |
| | | | | | | | Dichlorobromomethane | 2000 ug/mL |
| | | | | | | | Ethylbenzene | 2000 ug/mL |
| | | | | | | | Ethylene Dibromide | 2000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 2000 ug/mL |
| | | | | | | | Isopropylbenzene | 2000 ug/mL |
| | | | | | | | m-Xylene & p-Xylene | 4000 ug/mL |
| | | | | | | | Methylene Chloride | 2000 ug/mL |
| | | | | | | | n-Butylbenzene | 2000 ug/mL |
| | | | | | | | N-Propylbenzene | 2000 ug/mL |
| | | | | | | | Naphthalene | 2000 ug/mL |
| | | | | | | | o-Xylene | 2000 ug/mL |
| | | | | | | | sec-Butylbenzene | 2000 ug/mL |
| | | | | | | | Styrene | 2000 ug/mL |
| | | | | | | | tert-Butylbenzene | 2000 ug/mL |
| | | | | | | | Tetrachloroethene | 2000 ug/mL |
| | | | | | | | Toluene | 2000 ug/mL |
| | | | | | | | trans-1,2-Dichloroethene | 2000 ug/mL |
| | | | | | | | trans-1,3-Dichloropropene | 2000 ug/mL |
| | | | | | | | Trichloroethene | 2000 ug/mL |
| .MV-EPA1208_00039 | 05/30/15 | Ultra Scientific, Lot CJ-1332 | | | (Purchased Reagent) | | 1-Chlorohexane | 1000 ug/mL |
| **MV-624 A_00021** | 10/02/13 | 04/02/13 | Methanol, Lot dh247 | 10 mL | MV-30462_00013 | 200 uL | 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 ug/mL |
| | | | | | MV-567117_00003 | 200 uL | Carbon disulfide | 40 ug/mL |
| .MV-30462_00013 | 11/30/13 | Restek, Lot A087209 | | | (Purchased Reagent) | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2000 ug/mL |
| .MV-567117_00003 | 05/31/14 | RESTEK, Lot A088372 | | | (Purchased Reagent) | | Carbon disulfide | 2000 ug/mL |
| **MV-Acetates_00005** | 02/28/13 | 02/01/13 | P&T Methanol, Lot Df247 | 10 mL | MV-cus14016_00006 | 200 uL | Ethyl acetate | 80 ug/mL |
| | | | | | | | Methyl acetate | 200 ug/mL |
| | | | | | | | Vinyl acetate | 80 ug/mL |
| .MV-cus14016_00006 | 02/28/13 | ULTRA, Lot CJ-3692 | | | (Purchased Reagent) | | Ethyl acetate | 4000 ug/mL |
| | | | | | | | Methyl acetate | 10000 ug/mL |
| | | | | | | | Vinyl acetate | 4000 ug/mL |
| **MV-Acetates_00006** | 06/30/13 | 03/01/13 | P&T Methanol, Lot Df247 | 10 mL | MV-cus14016_00010 | 200 uL | Ethyl acetate | 80 ug/mL |
| | | | | | | | Methyl acetate | 200 ug/mL |
| | | | | | | | Vinyl acetate | 80 ug/mL |
| .MV-cus14016_00010 | 06/30/13 | ULTRA, Lot Ck-0447 | | | (Purchased Reagent) | | Ethyl acetate | 4000 ug/mL |
| | | | | | | | Methyl acetate | 10000 ug/mL |
| | | | | | | | Vinyl acetate | 4000 ug/mL |
| **MV-Acetates_00007** | 06/30/13 | 05/07/13 | P&T Methanol, Lot dh379 | 10 mL | MV-cus14016_00011 | 200 uL | Ethyl acetate | 80 ug/mL |
| | | | | | | | Methyl acetate | 200 ug/mL |
| | | | | | | | Vinyl acetate | 80 ug/mL |
| .MV-cus14016_00011 | 06/30/13 | ULTRA, Lot Ck-0447 | | | (Purchased Reagent) | | Ethyl acetate | 4000 ug/mL |
| | | | | | | | Methyl acetate | 10000 ug/mL |
| | | | | | | | Vinyl acetate | 4000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **MV-ARCH SS A_00002** | 09/08/13 | 03/08/13 | P&T Methanol, Lot dh457 | 10 mL | MV-567650_00001 | 1 mL | 1,2-Dichloroethane-d4 (Surr) | 250 ug/mL |
| | | | | | | | 4-Bromofluorobenzene (Surr) | 250 ug/mL |
| | | | | | | | Dibromofluoromethane (Surr) | 250 ug/mL |
| | | | | | | | Toluene-d8 (Surr) | 250 ug/mL |
| .MV-567650_00001 | 12/31/17 | | Restek, Lot A092213 | | (Purchased Reagent) | | 1,2-Dichloroethane-d4 (Surr) | 2500 ug/mL |
| | | | | | | | 4-Bromofluorobenzene (Surr) | 2500 ug/mL |
| | | | | | | | Dibromofluoromethane (Surr) | 2500 ug/mL |
| | | | | | | | Toluene-d8 (Surr) | 2500 ug/mL |
| **MV-Archon IS_00542** | 05/21/13 | | Supelco, Lot LB91482 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 250 ug/mL |
| | | | | | | | Chlorobenzene-d5 | 250 ug/mL |
| | | | | | | | Fluorobenzene | 250 ug/mL |
| **MV-Archon SS_00677** | 06/14/13 | | Restek, Lot A087857 | | (Purchased Reagent) | | 1,2-Dichloroethane-d4 (Surr) | 250 ug/mL |
| | | | | | | | 4-Bromofluorobenzene (Surr) | 250 ug/mL |
| | | | | | | | Dibromofluoromethane (Surr) | 250 ug/mL |
| | | | | | | | Toluene-d8 (Surr) | 250 ug/mL |
| **MV-Gas/Ket A_00003** | 06/30/13 | 04/09/13 | P&T Methanol, Lot DH247 | 10 mL | MV-567642_00004 | 160 uL | 2-Butanone (MEK) | 160 ug/mL |
| | | | | | | | 2-Hexanone | 160 ug/mL |
| | | | | | | | 4-Methyl-2-pentanone (MIBK) | 160 ug/mL |
| | | | | | | | Acetone | 160 ug/mL |
| | | | | | MV-567644_00004 | 400 uL | Acrolein | 400 ug/mL |
| | | | | | MV-567644_00005 | 400 uL | Acrolein | 400 ug/mL |
| | | | | | MV-567645_00004 | 200 uL | Bromomethane | 40 ug/mL |
| | | | | | | | Chloroethane | 40 ug/mL |
| | | | | | | | Chloromethane | 40 ug/mL |
| | | | | | | | Dichlorodifluoromethane | 40 ug/mL |
| | | | | | | | Trichlorofluoromethane | 40 ug/mL |
| | | | | | | | Vinyl chloride | 40 ug/mL |
| | | | | | MV-567648_00004 | 400 uL | Cyclohexanone | 1600 ug/mL |
| | | | | | MV-567648_00005 | 400 uL | Cyclohexanone | 1600 ug/mL |
| .MV-567642_00004 | 02/28/16 | | RESTEK, Lot A093365 | | (Purchased Reagent) | | 2-Butanone (MEK) | 10000 ug/mL |
| | | | | | | | 2-Hexanone | 10000 ug/mL |
| | | | | | | | 4-Methyl-2-pentanone (MIBK) | 10000 ug/mL |
| | | | | | | | Acetone | 10000 ug/mL |
| .MV-567644_00004 | 06/30/13 | | RESTEK, Lot A093659 | | (Purchased Reagent) | | Acrolein | 5000 ug/mL |
| .MV-567644_00005 | 06/30/13 | | RESTEK, Lot A093659 | | (Purchased Reagent) | | Acrolein | 5000 ug/mL |
| .MV-567645_00004 | 02/28/15 | | RESTEK, Lot A093341 | | (Purchased Reagent) | | Bromomethane | 2000 ug/mL |
| | | | | | | | Chloroethane | 2000 ug/mL |
| | | | | | | | Chloromethane | 2000 ug/mL |
| | | | | | | | Dichlorodifluoromethane | 2000 ug/mL |
| | | | | | | | Trichlorofluoromethane | 2000 ug/mL |
| | | | | | | | Vinyl chloride | 2000 ug/mL |
| .MV-567648_00004 | 02/29/16 | | RESTEK, Lot A093361 | | (Purchased Reagent) | | Cyclohexanone | 20000 ug/mL |
| .MV-567648_00005 | 02/29/16 | | RESTEK, Lot A093361 | | (Purchased Reagent) | | Cyclohexanone | 20000 ug/mL |
| **MV-Main_00028** | 06/22/13 | 12/31/12 | P&T Methanol, Lot dh247 | 10 mL | MV-1-Ch Hex_00011 | 10.5 uL | 1-Chlorohexane | 39.3356 ug/mL |
| | | | | | MV-502111_00029 | 200 uL | 1,1,1,2-Tetrachloroethane | 40 ug/mL |
| | | | | | | | 1,1,1-Trichloroethane | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 40 ug/mL |
| | | | | | | | 1,1,2-Trichloroethane | 40 ug/mL |
| | | | | | | | 1,1-Dichloroethane | 40 ug/mL |
| | | | | | | | 1,1-Dichloroethene | 40 ug/mL |
| | | | | | | | 1,1-Dichloropropene | 40 ug/mL |
| | | | | | | | 1,2,3-Trichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2,3-Trichloropropane | 40 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2,4-Trimethylbenzene | 40 ug/mL |
| | | | | | | | 1,2-Dibromo-3-Chloropropane | 40 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 1,2-Dichloroethane | 40 ug/mL |
| | | | | | | | 1,2-Dichloropropane | 40 ug/mL |
| | | | | | | | 1,3,5-Trimethylbenzene | 40 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 1,3-Dichloropropane | 40 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 40 ug/mL |
| | | | | | | | 2,2-Dichloropropane | 40 ug/mL |
| | | | | | | | 2-Chlorotoluene | 40 ug/mL |
| | | | | | | | 4-Chlorotoluene | 40 ug/mL |
| | | | | | | | 4-Isopropyltoluene | 40 ug/mL |
| | | | | | | | Benzene | 40 ug/mL |
| | | | | | | | Bromobenzene | 40 ug/mL |
| | | | | | | | Bromoform | 40 ug/mL |
| | | | | | | | Carbon tetrachloride | 40 ug/mL |
| | | | | | | | Chlorobenzene | 40 ug/mL |
| | | | | | | | Chlorobromomethane | 40 ug/mL |
| | | | | | | | Chlorodibromomethane | 40 ug/mL |
| | | | | | | | Chloroform | 40 ug/mL |
| | | | | | | | cis-1,2-Dichloroethene | 40 ug/mL |
| | | | | | | | cis-1,3-Dichloropropene | 40 ug/mL |
| | | | | | | | Dibromomethane | 40 ug/mL |
| | | | | | | | Dichlorobromomethane | 40 ug/mL |
| | | | | | | | Ethylbenzene | 40 ug/mL |
| | | | | | | | Ethylene Dibromide | 40 ug/mL |
| | | | | | | | Hexachlorobutadiene | 40 ug/mL |
| | | | | | | | Isopropylbenzene | 40 ug/mL |
| | | | | | | | m-Xylene & p-Xylene | 80 ug/mL |
| | | | | | | | Methylene Chloride | 40 ug/mL |
| | | | | | | | n-Butylbenzene | 40 ug/mL |
| | | | | | | | N-Propylbenzene | 40 ug/mL |
| | | | | | | | Naphthalene | 40 ug/mL |
| | | | | | | | o-Xylene | 40 ug/mL |
| | | | | | | | sec-Butylbenzene | 40 ug/mL |
| | | | | | | | Styrene | 40 ug/mL |
| | | | | | | | tert-Butylbenzene | 40 ug/mL |
| | | | | | | | Tetrachloroethene | 40 ug/mL |
| | | | | | | | Toluene | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | trans-1,2-Dichloroethene | 40 ug/mL |
| | | | | | | | trans-1,3-Dichloropropene | 40 ug/mL |
| | | | | | | | Trichloroethene | 40 ug/mL |
| | | | | | MV-506052_00030 | 200 uL | Iodomethane | 40 ug/mL |
| | | | | | MV-861145_00028 | 200 uL | 2-Chloro-1,3-butadiene | 40 ug/mL |
| | | | | | MV-CUS11338_00037 | 500 uL | 1,4-Dioxane | 2000 ug/mL |
| | | | | | | | 2-Methyl-2-propanol | 800 ug/mL |
| | | | | | | | Acetonitrile | 400 ug/mL |
| | | | | | | | Acrylonitrile | 400 ug/mL |
| | | | | | | | Ethanol | 2000 ug/mL |
| | | | | | | | Isobutyl alcohol | 800 ug/mL |
| | | | | | | | Isopropyl ether | 200 ug/mL |
| | | | | | | | Methacrylonitrile | 400 ug/mL |
| | | | | | | | Propionitrile | 400 ug/mL |
| | | | | | MV-CUS11338_00038 | 500 uL | 1,4-Dioxane | 2000 ug/mL |
| | | | | | | | 2-Methyl-2-propanol | 800 ug/mL |
| | | | | | | | Acetonitrile | 400 ug/mL |
| | | | | | | | Acrylonitrile | 400 ug/mL |
| | | | | | | | Ethanol | 2000 ug/mL |
| | | | | | | | Isobutyl alcohol | 800 ug/mL |
| | | | | | | | Isopropyl ether | 200 ug/mL |
| | | | | | | | Methacrylonitrile | 400 ug/mL |
| | | | | | | | Propionitrile | 400 ug/mL |
| .MV-1-Ch Hex_00011 | 06/22/13 | 12/28/12 | P&T Methanol, Lot dh247 | 5 mL | MV-442258_00003 | 0.1875 g | 1-Chlorohexane | 37462.5 ug/mL |
| ..MV-442258_00003 | 11/30/14 | | Supelco, Lot LB89038v | | (Purchased Reagent) | | 1-Chlorohexane | 0.999 mL/mL |
| .MV-502111_00029 | 05/31/14 | | Supelco, Lot LB92760 | | (Purchased Reagent) | | 1,1,1,2-Tetrachloroethane | 2000 ug/mL |
| | | | | | | | 1,1,1-Trichloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2-Trichloroethane | 2000 ug/mL |
| | | | | | | | 1,1-Dichloroethane | 2000 ug/mL |
| | | | | | | | 1,1-Dichloroethene | 2000 ug/mL |
| | | | | | | | 1,1-Dichloropropene | 2000 ug/mL |
| | | | | | | | 1,2,3-Trichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2,3-Trichloropropane | 2000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2,4-Trimethylbenzene | 2000 ug/mL |
| | | | | | | | 1,2-Dibromo-3-Chloropropane | 2000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,2-Dichloroethane | 2000 ug/mL |
| | | | | | | | 1,2-Dichloropropane | 2000 ug/mL |
| | | | | | | | 1,3,5-Trimethylbenzene | 2000 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 1,3-Dichloropropane | 2000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 2000 ug/mL |
| | | | | | | | 2,2-Dichloropropane | 2000 ug/mL |
| | | | | | | | 2-Chlorotoluene | 2000 ug/mL |
| | | | | | | | 4-Chlorotoluene | 2000 ug/mL |
| | | | | | | | 4-Isopropyltoluene | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzene | 2000 ug/mL |
| | | | | | | | Bromobenzene | 2000 ug/mL |
| | | | | | | | Bromoform | 2000 ug/mL |
| | | | | | | | Carbon tetrachloride | 2000 ug/mL |
| | | | | | | | Chlorobenzene | 2000 ug/mL |
| | | | | | | | Chlorobromomethane | 2000 ug/mL |
| | | | | | | | Chlorodibromomethane | 2000 ug/mL |
| | | | | | | | Chloroform | 2000 ug/mL |
| | | | | | | | cis-1,2-Dichloroethene | 2000 ug/mL |
| | | | | | | | cis-1,3-Dichloropropene | 2000 ug/mL |
| | | | | | | | Dibromomethane | 2000 ug/mL |
| | | | | | | | Dichlorobromomethane | 2000 ug/mL |
| | | | | | | | Ethylbenzene | 2000 ug/mL |
| | | | | | | | Ethylene Dibromide | 2000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 2000 ug/mL |
| | | | | | | | Isopropylbenzene | 2000 ug/mL |
| | | | | | | | m-Xylene & p-Xylene | 4000 ug/mL |
| | | | | | | | Methylene Chloride | 2000 ug/mL |
| | | | | | | | n-Butylbenzene | 2000 ug/mL |
| | | | | | | | N-Propylbenzene | 2000 ug/mL |
| | | | | | | | Naphthalene | 2000 ug/mL |
| | | | | | | | o-Xylene | 2000 ug/mL |
| | | | | | | | sec-Butylbenzene | 2000 ug/mL |
| | | | | | | | Styrene | 2000 ug/mL |
| | | | | | | | tert-Butylbenzene | 2000 ug/mL |
| | | | | | | | Tetrachloroethene | 2000 ug/mL |
| | | | | | | | Toluene | 2000 ug/mL |
| | | | | | | | trans-1,2-Dichloroethene | 2000 ug/mL |
| | | | | | | | trans-1,3-Dichloropropene | 2000 ug/mL |
| | | | | | | | Trichloroethene | 2000 ug/mL |
| .MV-506052_00030 | 08/30/13 | | Supelco, Lot LB94320 | | (Purchased Reagent) | | Iodomethane | 2000 ug/mL |
| .MV-861145_00028 | 08/31/13 | | Supelco, Lot LB94169 | | (Purchased Reagent) | | 2-Chloro-1,3-butadiene | 2000 ug/mL |
| .MV-CUS11338_00037 | 11/30/13 | | Ultra, Lot CH-3475 | | (Purchased Reagent) | | 1,4-Dioxane | 20000 ug/mL |
| | | | | | | | 2-Methyl-2-propanol | 8000 ug/mL |
| | | | | | | | Acetonitrile | 4000 ug/mL |
| | | | | | | | Acrylonitrile | 4000 ug/mL |
| | | | | | | | Ethanol | 20000 ug/mL |
| | | | | | | | Isobutyl alcohol | 8000 ug/mL |
| | | | | | | | Isopropyl ether | 2000 ug/mL |
| | | | | | | | Methacrylonitrile | 4000 ug/mL |
| | | | | | | | Propionitrile | 4000 ug/mL |
| .MV-CUS11338_00038 | 11/30/13 | | Ultra, Lot CH-3475 | | (Purchased Reagent) | | 1,4-Dioxane | 20000 ug/mL |
| | | | | | | | 2-Methyl-2-propanol | 8000 ug/mL |
| | | | | | | | Acetonitrile | 4000 ug/mL |
| | | | | | | | Acrylonitrile | 4000 ug/mL |
| | | | | | | | Ethanol | 20000 ug/mL |
| | | | | | | | Isobutyl alcohol | 8000 ug/mL |
| | | | | | | | Isopropyl ether | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methacrylonitrile | 4000 ug/mL |
| | | | | | | | Propionitrile | 4000 ug/mL |
| **MV-SecSrc B_00011** | 10/16/13 | 04/17/13 | P&T Methanol, Lot Dh247 | 10 mL | MV-567467_00002 | 1 mL | 1,4-Dioxane | 2000.2 ug/mL |
| .MV-567467_00002 | 04/30/15 | | RESTEK, Lot A091172 | | (Purchased Reagent) | | 1,4-Dioxane | 20002 ug/mL |
| **MV-SecSrc B_00012** | 05/16/13 | 10/16/12 | P&T Methanol, Lot DG596 | 10 mL | MV-567467_00001 | 1000 uL | 1,4-Dioxane | 2000.2 ug/mL |
| .MV-567467_00001 | 04/30/15 | | RESTEK, Lot A091172 | | (Purchased Reagent) | | 1,4-Dioxane | 20002 ug/mL |
| **MV-SS GasKe_00026** | 09/26/13 | 03/26/13 | P&T Methanol, Lot DH247 | 10 mL | MV-30006_00051 | 320 uL | 2-Butanone (MEK) | 160 ug/mL |
| | | | | | | | 2-Hexanone | 160 ug/mL |
| | | | | | | | 4-Methyl-2-pentanone (MIBK) | 160 ug/mL |
| | | | | | | | Acetone | 160 ug/mL |
| | | | | | MV-5s06036_00026 | 200 uL | Bromomethane | 40 ug/mL |
| | | | | | | | Chloroethane | 40 ug/mL |
| | | | | | | | Chloromethane | 40 ug/mL |
| | | | | | | | Dichlorodifluoromethane | 40 ug/mL |
| | | | | | | | Trichlorofluoromethane | 40 ug/mL |
| | | | | | | | Vinyl chloride | 40 ug/mL |
| .MV-30006_00051 | 07/31/15 | | Restek, Lot A087941 | | (Purchased Reagent) | | 2-Butanone (MEK) | 5000 ug/mL |
| | | | | | | | 2-Hexanone | 5000 ug/mL |
| | | | | | | | 4-Methyl-2-pentanone (MIBK) | 5000 ug/mL |
| | | | | | | | Acetone | 5000 ug/mL |
| .MV-5s06036_00026 | 04/30/15 | | Supelco, Lot LB94493 | | (Purchased Reagent) | | Bromomethane | 2000 ug/mL |
| | | | | | | | Chloroethane | 2000 ug/mL |
| | | | | | | | Chloromethane | 2000 ug/mL |
| | | | | | | | Dichlorodifluoromethane | 2000 ug/mL |
| | | | | | | | Trichlorofluoromethane | 2000 ug/mL |
| | | | | | | | Vinyl chloride | 2000 ug/mL |
| **MV-SS Supp_00016** | 04/30/13 | 01/31/13 | P&T Methanol, Lot DH247 | 10 mL | MV-21543479_00001 | 200 uL | 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 ug/mL |
| | | | | | | | Carbon disulfide | 40 ug/mL |
| | | | | | | | Cyclohexane | 40 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 40 ug/mL |
| | | | | | | | Methylcyclohexane | 40 ug/mL |
| .MV-21543479_00001 | 06/30/13 | | Supelco, Lot LB93638 | | (Purchased Reagent) | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2000 ug/mL |
| | | | | | | | Carbon disulfide | 2000 ug/mL |
| | | | | | | | Cyclohexane | 2000 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 2000 ug/mL |
| | | | | | | | Methylcyclohexane | 2000 ug/mL |
| **MV-SS Supp_00018** | 05/30/13 | 01/31/13 | P&T Methanol, Lot DH247 | 10 mL | MV-21543479_00001 | 200 uL | 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 ug/mL |
| | | | | | | | Carbon disulfide | 40 ug/mL |
| | | | | | | | Cyclohexane | 40 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 40 ug/mL |
| | | | | | | | Methylcyclohexane | 40 ug/mL |
| .MV-21543479_00001 | 06/30/13 | | Supelco, Lot LB93638 | | (Purchased Reagent) | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2000 ug/mL |
| | | | | | | | Carbon disulfide | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cyclohexane | 2000 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 2000 ug/mL |
| | | | | | | | Methylcyclohexane | 2000 ug/mL |
| **MV-SSAcetates_00001** | 07/31/13 | 02/01/13 | P&T Methanol, Lot DF247 | 10 mL | MV-562811_00018 | 200 uL | Methyl acetate | 200 ug/mL |
| .MV-562811_00018 | 03/31/14 | | RESTEK, Lot A091016 | | (Purchased Reagent) | | Methyl acetate | 10000 ug/mL |
| **MV-Supp Std_00029** | 04/30/13 | 01/28/13 | P&T Methanol, Lot DH247 | 10 mL | MV-21322197_00026 | 1000 uL | Propene oxide | 2000 ug/mL |
| | | | | | MV-21322197_00027 | 1000 uL | Propene oxide | 2000 ug/mL |
| | | | | | MV-2butanol_00006 | 400 uL | sec-Butyl Alcohol | 1456.68 ug/mL |
| | | | | | MV-CUS14015_00005 | 200 uL | 1,1,1-Trifluoro-2,2-dichloroethane | 40 ug/mL |
| | | | | | | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 ug/mL |
| | | | | | | | 2-Nitropropane | 40 ug/mL |
| | | | | | | | 2-Pentanone | 160 ug/mL |
| | | | | | | | 3-Chloro-1-propene | 40 ug/mL |
| | | | | | | | Carbon disulfide | 40 ug/mL |
| | | | | | | | cis-1,4-Dichloro-2-butene | 40 ug/mL |
| | | | | | | | Cyclohexane | 40 ug/mL |
| | | | | | | | Dichlorofluoromethane | 40 ug/mL |
| | | | | | | | Ethyl ether | 40 ug/mL |
| | | | | | | | Ethyl methacrylate | 80 ug/mL |
| | | | | | | | Hexane | 40 ug/mL |
| | | | | | | | Isopropyl alcohol | 800 ug/mL |
| | | | | | | | Methyl methacrylate | 80 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 40 ug/mL |
| | | | | | | | Methylcyclohexane | 40 ug/mL |
| | | | | | | | Tert-amyl methyl ether | 200 ug/mL |
| | | | | | | | Tert-butyl ethyl ether | 200 ug/mL |
| | | | | | | | Tetrahydrofuran | 80 ug/mL |
| | | | | | | | trans-1,4-Dichloro-2-butene | 40 ug/mL |
| .MV-21322197_00026 | 12/31/13 | | Supelco, Lot LB97402 | | (Purchased Reagent) | | Propene oxide | 10000 ug/mL |
| .MV-21322197_00027 | 12/31/13 | | Supelco, Lot LB97402 | | (Purchased Reagent) | | Propene oxide | 10000 ug/mL |
| .MV-2butanol_00006 | 04/30/13 | 01/28/13 | P&T Methanol, Lot DH247 | 5 mL | MV-294810_00001 | 0.183 g | sec-Butyl Alcohol | 36417 ug/mL |
| ..MV-294810_00001 | 04/30/13 | | Supelco, Lot 50296kkv | | (Purchased Reagent) | | sec-Butyl Alcohol | 0.995 mL/mL |
| .MV-CUS14015_00005 | 07/31/13 | | Ultra, Lot CJ-2219 | | (Purchased Reagent) | | 1,1,1-Trifluoro-2,2-dichloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2000 ug/mL |
| | | | | | | | 2-Nitropropane | 2000 ug/mL |
| | | | | | | | 2-Pentanone | 8000 ug/mL |
| | | | | | | | 3-Chloro-1-propene | 2000 ug/mL |
| | | | | | | | Carbon disulfide | 2000 ug/mL |
| | | | | | | | cis-1,4-Dichloro-2-butene | 2000 ug/mL |
| | | | | | | | Cyclohexane | 2000 ug/mL |
| | | | | | | | Dichlorofluoromethane | 2000 ug/mL |
| | | | | | | | Ethyl ether | 2000 ug/mL |
| | | | | | | | Ethyl methacrylate | 4000 ug/mL |
| | | | | | | | Hexane | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Isopropyl alcohol | 40000 ug/mL |
| | | | | | | | Methyl methacrylate | 4000 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 2000 ug/mL |
| | | | | | | | Methylcyclohexane | 2000 ug/mL |
| | | | | | | | Tert-amyl methyl ether | 10000 ug/mL |
| | | | | | | | Tert-butyl ethyl ether | 10000 ug/mL |
| | | | | | | | Tetrahydrofuran | 4000 ug/mL |
| | | | | | | | trans-1,4-Dichloro-2-butene | 2000 ug/mL |
| **MV-Supp Std_00034** | 04/30/13 | 04/02/13 | P&T Methanol, Lot DH247 | 10 mL | MV-21322197_00028 | 1 mL | Propene oxide | 2000 ug/mL |
| | | | | | MV-21322197_00029 | 1 mL | Propene oxide | 2000 ug/mL |
| | | | | | MV-21543479_00004 | 200 uL | 1,1,1-Trifluoro-2,2-dichloroethane | 40 ug/mL |
| | | | | | | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 ug/mL |
| | | | | | | | 2-Nitropropane | 40 ug/mL |
| | | | | | | | 2-Pentanone | 160 ug/mL |
| | | | | | | | 3-Chloro-1-propene | 40 ug/mL |
| | | | | | | | Carbon disulfide | 40 ug/mL |
| | | | | | | | cis-1,4-Dichloro-2-butene | 40 ug/mL |
| | | | | | | | Cyclohexane | 40 ug/mL |
| | | | | | | | Dichlorofluoromethane | 40 ug/mL |
| | | | | | | | Ethyl ether | 40 ug/mL |
| | | | | | | | Ethyl methacrylate | 80 ug/mL |
| | | | | | | | Hexane | 40 ug/mL |
| | | | | | | | Isopropyl alcohol | 800 ug/mL |
| | | | | | | | Methyl methacrylate | 80 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 40 ug/mL |
| | | | | | | | Methylcyclohexane | 40 ug/mL |
| | | | | | | | Tert-amyl methyl ether | 200 ug/mL |
| | | | | | | | Tert-butyl ethyl ether | 200 ug/mL |
| | | | | | | | Tetrahydrofuran | 80 ug/mL |
| | | | | | | | trans-1,4-Dichloro-2-butene | 40 ug/mL |
| | | | | | MV-2butanol_00006 | 400 uL | sec-Butyl Alcohol | 1456.68 ug/mL |
| .MV-21322197_00028 | 12/31/13 | | Supelco, Lot LB97402 | | (Purchased Reagent) | | Propene oxide | 10000 ug/mL |
| .MV-21322197_00029 | 12/31/13 | | Supelco, Lot LB97402 | | (Purchased Reagent) | | Propene oxide | 10000 ug/mL |
| .MV-21543479_00004 | 06/30/13 | | Supelco, Lot LB93638 | | (Purchased Reagent) | | 1,1,1-Trifluoro-2,2-dichloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2000 ug/mL |
| | | | | | | | 2-Nitropropane | 2000 ug/mL |
| | | | | | | | 2-Pentanone | 8000 ug/mL |
| | | | | | | | 3-Chloro-1-propene | 2000 ug/mL |
| | | | | | | | Carbon disulfide | 2000 ug/mL |
| | | | | | | | cis-1,4-Dichloro-2-butene | 2000 ug/mL |
| | | | | | | | Cyclohexane | 2000 ug/mL |
| | | | | | | | Dichlorofluoromethane | 2000 ug/mL |
| | | | | | | | Ethyl ether | 2000 ug/mL |
| | | | | | | | Ethyl methacrylate | 4000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexane | 2000 ug/mL |
| | | | | | | | Isopropyl alcohol | 40000 ug/mL |
| | | | | | | | Methyl methacrylate | 4000 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 2000 ug/mL |
| | | | | | | | Methylcyclohexane | 2000 ug/mL |
| | | | | | | | Tert-amyl methyl ether | 10000 ug/mL |
| | | | | | | | Tert-butyl ethyl ether | 10000 ug/mL |
| | | | | | | | Tetrahydrofuran | 4000 ug/mL |
| | | | | | | | trans-1,4-Dichloro-2-butene | 2000 ug/mL |
| .MV-2butanol_00006 | 04/30/13 | 01/28/13 | P&T Methanol, Lot DH247 | 5 mL | MV-294810_00001 | 0.183 g | sec-Butyl Alcohol | 36417 ug/mL |
| ..MV-294810_00001 | 04/30/13 | | Supelco, Lot 50296kkv | | (Purchased Reagent) | | sec-Butyl Alcohol | 0.995 mL/mL |
| **MV-Supp Std_00035** | 06/30/13 | 04/02/13 | P&T Methanol, Lot DH247 | 10 mL | MV-21322197_00028 | 1 mL | Propene oxide | 2000 ug/mL |
| | | | | | MV-21322197_00029 | 1 mL | Propene oxide | 2000 ug/mL |
| | | | | | MV-21543479_00004 | 200 uL | 1,1,1-Trifluoro-2,2-dichloroethane | 40 ug/mL |
| | | | | | | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 ug/mL |
| | | | | | | | 2-Nitropropane | 40 ug/mL |
| | | | | | | | 2-Pentanone | 160 ug/mL |
| | | | | | | | 3-Chloro-1-propene | 40 ug/mL |
| | | | | | | | Carbon disulfide | 40 ug/mL |
| | | | | | | | cis-1,4-Dichloro-2-butene | 40 ug/mL |
| | | | | | | | Cyclohexane | 40 ug/mL |
| | | | | | | | Dichlorofluoromethane | 40 ug/mL |
| | | | | | | | Ethyl ether | 40 ug/mL |
| | | | | | | | Ethyl methacrylate | 80 ug/mL |
| | | | | | | | Hexane | 40 ug/mL |
| | | | | | | | Isopropyl alcohol | 800 ug/mL |
| | | | | | | | Methyl methacrylate | 80 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 40 ug/mL |
| | | | | | | | Methylcyclohexane | 40 ug/mL |
| | | | | | | | Tert-amyl methyl ether | 200 ug/mL |
| | | | | | | | Tert-butyl ethyl ether | 200 ug/mL |
| | | | | | | | Tetrahydrofuran | 80 ug/mL |
| | | | | | | | trans-1,4-Dichloro-2-butene | 40 ug/mL |
| | | | | | MV-2butanol_00006 | 400 uL | sec-Butyl Alcohol | 1456.68 ug/mL |
| .MV-21322197_00028 | 12/31/13 | | Supelco, Lot LB97402 | | (Purchased Reagent) | | Propene oxide | 10000 ug/mL |
| .MV-21322197_00029 | 12/31/13 | | Supelco, Lot LB97402 | | (Purchased Reagent) | | Propene oxide | 10000 ug/mL |
| .MV-21543479_00004 | 06/30/13 | | Supelco, Lot LB93638 | | (Purchased Reagent) | | 1,1,1-Trifluoro-2,2-dichloroethane | 2000 ug/mL |
| | | | | | | | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2000 ug/mL |
| | | | | | | | 2-Nitropropane | 2000 ug/mL |
| | | | | | | | 2-Pentanone | 8000 ug/mL |
| | | | | | | | 3-Chloro-1-propene | 2000 ug/mL |
| | | | | | | | Carbon disulfide | 2000 ug/mL |
| | | | | | | | cis-1,4-Dichloro-2-butene | 2000 ug/mL |
| | | | | | | | Cyclohexane | 2000 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dichlorofluoromethane | 2000 ug/mL |
| | | | | | | | Ethyl ether | 2000 ug/mL |
| | | | | | | | Ethyl methacrylate | 4000 ug/mL |
| | | | | | | | Hexane | 2000 ug/mL |
| | | | | | | | Isopropyl alcohol | 40000 ug/mL |
| | | | | | | | Methyl methacrylate | 4000 ug/mL |
| | | | | | | | Methyl tert-butyl ether | 2000 ug/mL |
| | | | | | | | Methylcyclohexane | 2000 ug/mL |
| | | | | | | | Tert-amyl methyl ether | 10000 ug/mL |
| | | | | | | | Tert-butyl ethyl ether | 10000 ug/mL |
| | | | | | | | Tetrahydrofuran | 4000 ug/mL |
| | | | | | | | trans-1,4-Dichloro-2-butene | 2000 ug/mL |
| .MV-2butanol_00006 | 04/30/13 | 01/28/13 | P&T Methanol, Lot DH247 | 5 mL | MV-294810_00001 | 0.183 g | sec-Butyl Alcohol | 36417 ug/mL |
| ..MV-294810_00001 | 04/30/13 | Supelco, Lot 50296kkv | | | (Purchased Reagent) | | sec-Butyl Alcohol | 0.995 mL/mL |

# Certification Summary

Client: FPM Remediations Inc
Project/Site: Griffiss AFB DP013 Bldg 255

TestAmerica Job ID: 280-42039-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica Denver | A2LA | DoD ELAP | | 2907.01 |
| TestAmerica Denver | A2LA | ISO/IEC 17025 | | 2907.01 |
| TestAmerica Denver | Alaska (UST) | State Program | 10 | UST-30 |
| TestAmerica Denver | Arizona | State Program | 9 | AZ0713 |
| TestAmerica Denver | Arkansas DEQ | State Program | 6 | 88-0687 |
| TestAmerica Denver | California | State Program | 9 | 2513 |
| TestAmerica Denver | Colorado | State Program | 8 | N/A |
| TestAmerica Denver | Connecticut | State Program | 1 | PH-0686 |
| TestAmerica Denver | Florida | NELAP | 4 | E87667 |
| TestAmerica Denver | Idaho | State Program | 10 | CO00026 |
| TestAmerica Denver | Illinois | NELAP | 5 | 200017 |
| TestAmerica Denver | Iowa | State Program | 7 | 370 |
| TestAmerica Denver | Kansas | NELAP | 7 | E-10166 |
| TestAmerica Denver | Louisiana | NELAP | 6 | 30785 |
| TestAmerica Denver | Maine | State Program | 1 | CO0002 |
| TestAmerica Denver | Maryland | State Program | 3 | 268 |
| TestAmerica Denver | Minnesota | NELAP | 5 | 8-999-405 |
| TestAmerica Denver | Nevada | State Program | 9 | CO0026 |
| TestAmerica Denver | New Hampshire | NELAP | 1 | 205310 |
| TestAmerica Denver | New Jersey | NELAP | 2 | CO004 |
| TestAmerica Denver | New Mexico | State Program | 6 | CO00026 |
| TestAmerica Denver | New York | NELAP | 2 | 11964 |
| TestAmerica Denver | North Carolina DENR | State Program | 4 | 358 |
| TestAmerica Denver | North Dakota | State Program | 8 | R-034 |
| TestAmerica Denver | Oklahoma | State Program | 6 | 8614 |
| TestAmerica Denver | Oregon | NELAP | 10 | CO200001 |
| TestAmerica Denver | Pennsylvania | NELAP | 3 | 68-00664 |
| TestAmerica Denver | South Carolina | State Program | 4 | 72002 |
| TestAmerica Denver | Texas | NELAP | 6 | T104704183-08-TX |
| TestAmerica Denver | USDA | Federal | | P330-08-00036 |
| TestAmerica Denver | Utah | NELAP | 8 | QUAN5 |
| TestAmerica Denver | Virginia | NELAP | 3 | 460232 |
| TestAmerica Denver | Washington | State Program | 10 | C583 |
| TestAmerica Denver | West Virginia DEP | State Program | 3 | 354 |
| TestAmerica Denver | Wisconsin | State Program | 5 | 999615430 |
| TestAmerica Denver | Wyoming (UST) | A2LA | 8 | |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method 8260B DOD

## Volatile Organic Compounds (GC/MS) by Method 8260B/DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.25 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| B255SCS0104AA | 280-42039-1 | 110 | 101 | 103 | 103 |
| B255SCS0108AA | 280-42039-2 | 110 | 105 | 101 | 96 |
| B255SCS0112AA | 280-42039-3 | 112 | 105 | 99 | 96 |
| B255SCS0204AA | 280-42039-4 | 112 | 102 | 101 | 100 |
| B255SCS0208AA | 280-42039-5 | 106 | 97 | 104 | 105 |
| B255SCS0212AA | 280-42039-6 | 105 | 95 | 102 | 99 |
| B255SCS0304AA | 280-42039-7 | 109 | 105 | 102 | 98 |
| B255SCS0308AA | 280-42039-8 | 106 | 97 | 103 | 98 |
| B255SCS0312AA | 280-42039-9 | 108 | 101 | 100 | 98 |
| B255SCS0104AC | 280-42039-10 | 107 | 99 | 103 | 100 |
| | MB 280-174775/1-A | 109 | 100 | 100 | 95 |
| | LCS 280-174775/2-A | 111 | 101 | 101 | 97 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 71-126 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 61-129 |
| TOL = Toluene-d8 (Surr) | 85-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 85-120 |

# Column to be used to flag recovery values

FORM II 8260B/DoD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| 050613AE | 280-42039-11 | 85 | 81 | 88 | 85 |
| 050613AF | 280-42039-12 | 95 | 92 | 99 | 97 |
| 050613AR | 280-42039-13 | 112 | 113 | 104 | 97 |
| | MB 280-173812/6 | 97 | 91 | 100 | 99 |
| | MB 280-174063/35 | 95 | 92 | 101 | 98 |
| | MB 280-174465/6 | 114 | 117 | 104 | 97 |
| | LCS 280-173812/5 | 92 | 90 | 101 | 94 |
| | LCS 280-174063/34 | 94 | 94 | 105 | 98 |
| | LCS 280-174465/5 | 114 | 118 | 102 | 97 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 85-115 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 70-120 |
| TOL = Toluene-d8 (Surr) | 85-120 |
| BFB = 4-Bromofluorobenzene (Surr) | 75-120 |

# Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: g2_8491.D

Lab ID: LCS 280-174775/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 50.0 | 47.3 | 95 | 75-125 | |
| 1,1,1-Trichloroethane | 50.0 | 55.5 | 111 | 70-135 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.8 | 96 | 55-130 | |
| 1,1,2-Trichloroethane | 50.0 | 50.5 | 101 | 60-125 | |
| 1,1-Dichloroethane | 50.0 | 50.9 | 102 | 75-125 | |
| 1,1-Dichloroethene | 50.0 | 55.0 | 110 | 65-135 | |
| 1,1-Dichloropropene | 50.0 | 48.6 | 97 | 70-135 | |
| 1,2,3-Trichlorobenzene | 50.0 | 46.8 | 94 | 60-135 | |
| 1,2,3-Trichloropropane | 50.0 | 47.3 | 95 | 65-130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 48.6 | 97 | 65-130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 49.3 | 99 | 65-135 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 48.7 | 97 | 40-135 | |
| 1,2-Dichlorobenzene | 50.0 | 49.3 | 99 | 75-120 | |
| 1,2-Dichloroethane | 50.0 | 50.4 | 101 | 70-135 | |
| 1,2-Dichloropropane | 50.0 | 49.9 | 100 | 70-120 | |
| 1,3,5-Trimethylbenzene | 50.0 | 47.1 | 94 | 65-135 | |
| 1,3-Dichlorobenzene | 50.0 | 50.0 | 100 | 70-125 | |
| 1,3-Dichloropropane | 50.0 | 46.5 | 93 | 75-125 | |
| 1,4-Dichlorobenzene | 50.0 | 49.9 | 100 | 70-125 | |
| 2,2-Dichloropropane | 50.0 | 55.0 | 110 | 65-135 | |
| 2-Butanone (MEK) | 200 | 222 | 111 | 30-160 | |
| 2-Chlorotoluene | 50.0 | 49.6 | 99 | 70-130 | |
| 2-Hexanone | 200 | 186 | 93 | 45-145 | |
| 4-Chlorotoluene | 50.0 | 50.1 | 100 | 75-125 | |
| 4-Isopropyltoluene | 50.0 | 47.0 | 94 | 75-135 | |
| 4-Methyl-2-pentanone (MIBK) | 200 | 193 | 97 | 45-145 | |
| Acetone | 200 | 173 | 87 | 20-160 | |
| Benzene | 50.0 | 50.7 | 101 | 75-125 | |
| Bromobenzene | 50.0 | 49.0 | 98 | 65-120 | |
| Bromoform | 50.0 | 43.9 | 88 | 55-135 | |
| Bromomethane | 50.0 | 45.4 | 91 | 30-160 | |
| Carbon disulfide | 50.0 | 50.0 | 100 | 45-160 | |
| Carbon tetrachloride | 50.0 | 53.3 | 107 | 65-135 | |
| Chlorobenzene | 50.0 | 49.3 | 99 | 75-125 | |
| Chlorobromomethane | 50.0 | 53.8 | 108 | 70-125 | |
| Chlorodibromomethane | 50.0 | 50.5 | 101 | 65-130 | |
| Chloroethane | 50.0 | 47.7 | 95 | 40-155 | |
| Chloroform | 50.0 | 52.2 | 104 | 70-125 | |
| Chloromethane | 50.0 | 47.4 | 95 | 50-130 | |
| cis-1,2-Dichloroethene | 50.0 | 52.8 | 106 | 65-125 | |
| cis-1,3-Dichloropropene | 50.0 | 46.6 | 93 | 70-125 | |
| Dibromomethane | 50.0 | 51.6 | 103 | 75-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: g2_8491.D

Lab ID: LCS 280-174775/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorobromomethane | 50.0 | 51.4 | 103 | 70-130 | |
| Dichlorodifluoromethane | 50.0 | 45.0 | 90 | 35-135 | |
| Ethylbenzene | 50.0 | 49.9 | 100 | 75-125 | |
| Ethylene Dibromide | 50.0 | 48.7 | 97 | 70-125 | |
| Hexachlorobutadiene | 50.0 | 47.5 | 95 | 55-140 | |
| Isopropylbenzene | 50.0 | 49.8 | 100 | 75-130 | |
| Methyl tert-butyl ether | 50.0 | 53.5 | 107 | 67-119 | |
| Methylene Chloride | 50.0 | 45.2 | 90 | 55-140 | |
| m-Xylene & p-Xylene | 100 | 100 | 100 | 80-125 | |
| Naphthalene | 50.0 | 45.6 | 91 | 40-125 | |
| n-Butylbenzene | 50.0 | 49.3 | 99 | 65-140 | |
| N-Propylbenzene | 50.0 | 49.5 | 99 | 65-135 | |
| o-Xylene | 50.0 | 50.1 | 100 | 75-125 | |
| sec-Butylbenzene | 50.0 | 48.1 | 96 | 65-130 | |
| Styrene | 50.0 | 49.9 | 100 | 75-125 | |
| tert-Butylbenzene | 50.0 | 50.4 | 101 | 65-130 | |
| Tetrachloroethene | 50.0 | 51.4 | 103 | 65-140 | |
| Toluene | 50.0 | 52.4 | 105 | 70-125 | |
| trans-1,2-Dichloroethene | 50.0 | 55.3 | 111 | 65-135 | |
| trans-1,3-Dichloropropene | 50.0 | 47.1 | 94 | 65-125 | |
| Trichloroethene | 50.0 | 51.7 | 103 | 75-125 | |
| Trichlorofluoromethane | 50.0 | 51.3 | 103 | 25-185 | |
| Vinyl chloride | 50.0 | 48.0 | 96 | 60-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Z4177.D

Lab ID: LCS 280-173812/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.70 | 94 | 80-130 | |
| 1,1,1-Trichloroethane | 5.00 | 4.77 | 95 | 65-130 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.79 | 96 | 65-130 | |
| 1,1,2-Trichloroethane | 5.00 | 4.60 | 92 | 75-125 | |
| 1,1-Dichloroethane | 5.00 | 4.52 | 90 | 70-135 | |
| 1,1-Dichloroethene | 5.00 | 5.61 | 112 | 70-130 | |
| 1,1-Dichloropropene | 5.00 | 4.41 | 88 | 75-130 | |
| 1,2,3-Trichlorobenzene | 5.00 | 4.56 | 91 | 55-140 | |
| 1,2,3-Trichloropropane | 5.00 | 4.66 | 93 | 75-125 | |
| 1,2,4-Trichlorobenzene | 5.00 | 4.76 | 95 | 65-135 | |
| 1,2,4-Trimethylbenzene | 5.00 | 4.63 | 93 | 75-130 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.57 J | 91 | 50-130 | |
| 1,2-Dichlorobenzene | 5.00 | 4.82 | 96 | 70-120 | |
| 1,2-Dichloroethane | 5.00 | 4.63 | 93 | 70-130 | |
| 1,2-Dichloropropane | 5.00 | 4.62 | 92 | 75-125 | |
| 1,3,5-Trimethylbenzene | 5.00 | 4.73 | 95 | 75-130 | |
| 1,3-Dichlorobenzene | 5.00 | 4.72 | 94 | 75-125 | |
| 1,3-Dichloropropane | 5.00 | 4.63 | 93 | 75-125 | |
| 1,4-Dichlorobenzene | 5.00 | 4.85 | 97 | 75-125 | |
| 2,2-Dichloropropane | 5.00 | 4.76 | 95 | 70-135 | |
| 2-Butanone (MEK) | 20.0 | 17.2 | 86 | 30-150 | |
| 2-Chlorotoluene | 5.00 | 5.34 | 107 | 75-125 | |
| 2-Hexanone | 20.0 | 18.1 | 91 | 55-130 | |
| 4-Chlorotoluene | 5.00 | 4.74 | 95 | 75-130 | |
| 4-Isopropyltoluene | 5.00 | 4.56 | 91 | 75-130 | |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 18.3 | 92 | 60-135 | |
| Acetone | 20.0 | 23.2 | 116 | 40-140 | |
| Benzene | 5.00 | 4.66 | 93 | 80-120 | |
| Bromobenzene | 5.00 | 4.77 | 95 | 75-125 | |
| Bromoform | 5.00 | 4.77 | 95 | 70-130 | |
| Bromomethane | 5.00 | 4.50 | 90 | 30-145 | |
| Carbon disulfide | 5.00 | 4.85 | 97 | 35-160 | |
| Carbon tetrachloride | 5.00 | 4.74 | 95 | 65-140 | |
| Chlorobenzene | 5.00 | 4.83 | 97 | 80-120 | |
| Chlorobromomethane | 5.00 | 4.75 | 95 | 65-130 | |
| Chlorodibromomethane | 5.00 | 4.74 | 95 | 60-135 | |
| Chloroethane | 5.00 | 4.51 | 90 | 60-135 | |
| Chloroform | 5.00 | 4.66 | 93 | 65-135 | |
| Chloromethane | 5.00 | 3.84 | 77 | 40-125 | |
| cis-1,2-Dichloroethene | 5.00 | 4.71 | 94 | 70-125 | |
| cis-1,3-Dichloropropene | 5.00 | 4.74 | 95 | 70-130 | |
| Dibromomethane | 5.00 | 4.65 | 93 | 75-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Z4177.D

Lab ID: LCS 280-173812/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorobromomethane | 5.00 | 4.66 | 93 | 75-120 | |
| Dichlorodifluoromethane | 5.00 | 4.42 | 88 | 30-155 | |
| Ethylbenzene | 5.00 | 4.72 | 94 | 75-125 | |
| Ethylene Dibromide | 5.00 | 4.72 | 94 | 80-120 | |
| Hexachlorobutadiene | 5.00 | 4.91 | 98 | 50-140 | |
| Isopropylbenzene | 5.00 | 4.72 | 94 | 75-125 | |
| Methyl tert-butyl ether | 5.00 | 4.99 J | 100 | 65-125 | |
| Methylene Chloride | 5.00 | 5.70 | 114 | 55-140 | |
| m-Xylene & p-Xylene | 10.0 | 9.40 | 94 | 75-130 | |
| Naphthalene | 5.00 | 4.18 | 84 | 55-140 | |
| n-Butylbenzene | 5.00 | 4.64 | 93 | 70-135 | |
| N-Propylbenzene | 5.00 | 4.66 | 93 | 70-130 | |
| o-Xylene | 5.00 | 4.67 | 93 | 80-120 | |
| sec-Butylbenzene | 5.00 | 4.72 | 94 | 70-125 | |
| Styrene | 5.00 | 4.72 | 94 | 65-135 | |
| tert-Butylbenzene | 5.00 | 4.68 | 94 | 70-130 | |
| Tetrachloroethene | 5.00 | 4.96 | 99 | 45-150 | |
| Toluene | 5.00 | 4.67 | 93 | 75-120 | |
| trans-1,2-Dichloroethene | 5.00 | 4.96 | 99 | 60-140 | |
| trans-1,3-Dichloropropene | 5.00 | 4.73 | 95 | 55-140 | |
| Trichloroethene | 5.00 | 4.61 | 92 | 70-125 | |
| Trichlorofluoromethane | 5.00 | 4.71 | 94 | 60-145 | |
| Vinyl chloride | 5.00 | 4.90 | 98 | 50-145 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Z4283.D

Lab ID: LCS 280-174063/34 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.39 | 88 | 80-130 | |
| 1,1,1-Trichloroethane | 5.00 | 4.46 | 89 | 65-130 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.62 | 92 | 65-130 | |
| 1,1,2-Trichloroethane | 5.00 | 4.38 | 88 | 75-125 | |
| 1,1-Dichloroethane | 5.00 | 4.26 | 85 | 70-135 | |
| 1,1-Dichloroethene | 5.00 | 5.24 | 105 | 70-130 | |
| 1,1-Dichloropropene | 5.00 | 4.21 | 84 | 75-130 | |
| 1,2,3-Trichlorobenzene | 5.00 | 4.23 | 85 | 55-140 | |
| 1,2,3-Trichloropropane | 5.00 | 4.34 | 87 | 75-125 | |
| 1,2,4-Trichlorobenzene | 5.00 | 4.49 | 90 | 65-135 | |
| 1,2,4-Trimethylbenzene | 5.00 | 4.32 | 86 | 75-130 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.35 J | 87 | 50-130 | |
| 1,2-Dichlorobenzene | 5.00 | 4.39 | 88 | 70-120 | |
| 1,2-Dichloroethane | 5.00 | 4.43 | 89 | 70-130 | |
| 1,2-Dichloropropane | 5.00 | 4.42 | 88 | 75-125 | |
| 1,3,5-Trimethylbenzene | 5.00 | 4.43 | 89 | 75-130 | |
| 1,3-Dichlorobenzene | 5.00 | 4.43 | 89 | 75-125 | |
| 1,3-Dichloropropane | 5.00 | 4.46 | 89 | 75-125 | |
| 1,4-Dichlorobenzene | 5.00 | 4.59 | 92 | 75-125 | |
| 2,2-Dichloropropane | 5.00 | 4.53 | 91 | 70-135 | |
| 2-Butanone (MEK) | 20.0 | 18.0 | 90 | 30-150 | |
| 2-Chlorotoluene | 5.00 | 5.01 | 100 | 75-125 | |
| 2-Hexanone | 20.0 | 20.6 | 103 | 55-130 | |
| 4-Chlorotoluene | 5.00 | 4.43 | 89 | 75-130 | |
| 4-Isopropyltoluene | 5.00 | 4.30 | 86 | 75-130 | |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 19.3 | 97 | 60-135 | |
| Acetone | 20.0 | 23.3 | 116 | 40-140 | |
| Benzene | 5.00 | 4.46 | 89 | 80-120 | |
| Bromobenzene | 5.00 | 4.41 | 88 | 75-125 | |
| Bromoform | 5.00 | 4.41 | 88 | 70-130 | |
| Bromomethane | 5.00 | 3.79 | 76 | 30-145 | |
| Carbon disulfide | 5.00 | 4.31 | 86 | 35-160 | |
| Carbon tetrachloride | 5.00 | 4.45 | 89 | 65-140 | |
| Chlorobenzene | 5.00 | 4.52 | 90 | 80-120 | |
| Chlorobromomethane | 5.00 | 4.45 | 89 | 65-130 | |
| Chlorodibromomethane | 5.00 | 4.53 | 91 | 60-135 | |
| Chloroethane | 5.00 | 4.26 | 85 | 60-135 | |
| Chloroform | 5.00 | 4.45 | 89 | 65-135 | |
| Chloromethane | 5.00 | 3.42 | 68 | 40-125 | |
| cis-1,2-Dichloroethene | 5.00 | 4.44 | 89 | 70-125 | |
| cis-1,3-Dichloropropene | 5.00 | 4.49 | 90 | 70-130 | |
| Dibromomethane | 5.00 | 4.39 | 88 | 75-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Z4283.D

Lab ID: LCS 280-174063/34 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorobromomethane | 5.00 | 4.43 | 89 | 75-120 | |
| Dichlorodifluoromethane | 5.00 | 3.89 | 78 | 30-155 | |
| Ethylbenzene | 5.00 | 4.49 | 90 | 75-125 | |
| Ethylene Dibromide | 5.00 | 4.37 | 87 | 80-120 | |
| Hexachlorobutadiene | 5.00 | 4.66 | 93 | 50-140 | |
| Isopropylbenzene | 5.00 | 4.43 | 89 | 75-125 | |
| Methyl tert-butyl ether | 5.00 | 4.71 J | 94 | 65-125 | |
| Methylene Chloride | 5.00 | 4.67 J | 93 | 55-140 | |
| m-Xylene & p-Xylene | 10.0 | 8.94 | 89 | 75-130 | |
| Naphthalene | 5.00 | 4.16 | 83 | 55-140 | |
| n-Butylbenzene | 5.00 | 4.47 | 89 | 70-135 | |
| N-Propylbenzene | 5.00 | 4.34 | 87 | 70-130 | |
| o-Xylene | 5.00 | 4.39 | 88 | 80-120 | |
| sec-Butylbenzene | 5.00 | 4.55 | 91 | 70-125 | |
| Styrene | 5.00 | 4.54 | 91 | 65-135 | |
| tert-Butylbenzene | 5.00 | 4.40 | 88 | 70-130 | |
| Tetrachloroethene | 5.00 | 4.59 | 92 | 45-150 | |
| Toluene | 5.00 | 4.43 | 89 | 75-120 | |
| trans-1,2-Dichloroethene | 5.00 | 4.63 | 93 | 60-140 | |
| trans-1,3-Dichloropropene | 5.00 | 4.56 | 91 | 55-140 | |
| Trichloroethene | 5.00 | 4.43 | 89 | 70-125 | |
| Trichlorofluoromethane | 5.00 | 4.18 | 84 | 60-145 | |
| Vinyl chloride | 5.00 | 4.05 | 81 | 50-145 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_8397.D

Lab ID: LCS 280-174465/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.00 | 4.91 | 98 | 80-130 | |
| 1,1,1-Trichloroethane | 5.00 | 5.13 | 103 | 65-130 | |
| 1,1,2,2-Tetrachloroethane | 5.00 | 4.98 | 100 | 65-130 | |
| 1,1,2-Trichloroethane | 5.00 | 5.03 | 101 | 75-125 | |
| 1,1-Dichloroethane | 5.00 | 4.97 | 99 | 70-135 | |
| 1,1-Dichloroethene | 5.00 | 5.78 | 116 | 70-130 | |
| 1,1-Dichloropropene | 5.00 | 4.69 | 94 | 75-130 | |
| 1,2,3-Trichlorobenzene | 5.00 | 4.92 | 98 | 55-140 | |
| 1,2,3-Trichloropropane | 5.00 | 5.07 | 101 | 75-125 | |
| 1,2,4-Trichlorobenzene | 5.00 | 4.95 | 99 | 65-135 | |
| 1,2,4-Trimethylbenzene | 5.00 | 4.78 | 96 | 75-130 | |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.69 J | 94 | 50-130 | |
| 1,2-Dichlorobenzene | 5.00 | 4.99 | 100 | 70-120 | |
| 1,2-Dichloroethane | 5.00 | 5.04 | 101 | 70-130 | |
| 1,2-Dichloropropane | 5.00 | 4.86 | 97 | 75-125 | |
| 1,3,5-Trimethylbenzene | 5.00 | 4.84 | 97 | 75-130 | |
| 1,3-Dichlorobenzene | 5.00 | 5.00 | 100 | 75-125 | |
| 1,3-Dichloropropane | 5.00 | 4.91 | 98 | 75-125 | |
| 1,4-Dichlorobenzene | 5.00 | 4.97 | 99 | 75-125 | |
| 2,2-Dichloropropane | 5.00 | 5.11 | 102 | 70-135 | |
| 2-Butanone (MEK) | 20.0 | 22.1 | 111 | 30-150 | |
| 2-Chlorotoluene | 5.00 | 4.76 | 95 | 75-125 | |
| 2-Hexanone | 20.0 | 17.7 | 89 | 55-130 | |
| 4-Chlorotoluene | 5.00 | 4.96 | 99 | 75-130 | |
| 4-Isopropyltoluene | 5.00 | 4.72 | 94 | 75-130 | |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 18.8 | 94 | 60-135 | |
| Acetone | 20.0 | 21.1 | 105 | 40-140 | |
| Benzene | 5.00 | 4.89 | 98 | 80-120 | |
| Bromobenzene | 5.00 | 5.06 | 101 | 75-125 | |
| Bromoform | 5.00 | 4.83 | 97 | 70-130 | |
| Bromomethane | 5.00 | 4.91 | 98 | 30-145 | |
| Carbon disulfide | 5.00 | 3.14 | 63 | 35-160 | |
| Carbon tetrachloride | 5.00 | 5.02 | 100 | 65-140 | |
| Chlorobenzene | 5.00 | 4.94 | 99 | 80-120 | |
| Chlorobromomethane | 5.00 | 5.00 | 100 | 65-130 | |
| Chlorodibromomethane | 5.00 | 5.02 | 100 | 60-135 | |
| Chloroethane | 5.00 | 4.94 | 99 | 60-135 | |
| Chloroform | 5.00 | 4.98 | 100 | 65-135 | |
| Chloromethane | 5.00 | 4.84 | 97 | 40-125 | |
| cis-1,2-Dichloroethene | 5.00 | 4.94 | 99 | 70-125 | |
| cis-1,3-Dichloropropene | 5.00 | 4.82 | 96 | 70-130 | |
| Dibromomethane | 5.00 | 5.12 | 102 | 75-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_8397.D

Lab ID: LCS 280-174465/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorobromomethane | 5.00 | 4.92 | 98 | 75-120 | |
| Dichlorodifluoromethane | 5.00 | 4.74 | 95 | 30-155 | |
| Ethylbenzene | 5.00 | 4.89 | 98 | 75-125 | |
| Ethylene Dibromide | 5.00 | 5.03 | 101 | 80-120 | |
| Hexachlorobutadiene | 5.00 | 4.91 | 98 | 50-140 | |
| Isopropylbenzene | 5.00 | 4.91 | 98 | 75-125 | |
| Methyl tert-butyl ether | 5.00 | 5.24 | 105 | 65-125 | |
| Methylene Chloride | 5.00 | 5.01 | 100 | 55-140 | |
| m-Xylene & p-Xylene | 10.0 | 10.0 | 100 | 75-130 | |
| Naphthalene | 5.00 | 4.68 | 94 | 55-140 | |
| n-Butylbenzene | 5.00 | 4.77 | 95 | 70-135 | |
| N-Propylbenzene | 5.00 | 4.68 | 94 | 70-130 | |
| o-Xylene | 5.00 | 4.84 | 97 | 80-120 | |
| sec-Butylbenzene | 5.00 | 4.91 | 98 | 70-125 | |
| Styrene | 5.00 | 4.95 | 99 | 65-135 | |
| tert-Butylbenzene | 5.00 | 4.79 | 96 | 70-130 | |
| Tetrachloroethene | 5.00 | 5.09 | 102 | 45-150 | |
| Toluene | 5.00 | 5.13 | 103 | 75-120 | |
| trans-1,2-Dichloroethene | 5.00 | 5.12 | 102 | 60-140 | |
| trans-1,3-Dichloropropene | 5.00 | 5.04 | 101 | 55-140 | |
| Trichloroethene | 5.00 | 4.91 | 98 | 70-125 | |
| Trichlorofluoromethane | 5.00 | 5.10 | 102 | 60-145 | |
| Vinyl chloride | 5.00 | 4.89 | 98 | 50-145 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_8492.D Lab Sample ID: MB 280-174775/1-A

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: VMS_G2 Date Analyzed: 05/17/2013 09:21

GC Column: DB-624 (60.25) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 280-174775/2-A | g2_8491.D | 05/17/2013 09:02 |
| B255SCS0104AA | 280-42039-1 | g2_8495.D | 05/17/2013 10:23 |
| B255SCS0108AA | 280-42039-2 | g2_8496.D | 05/17/2013 10:43 |
| B255SCS0112AA | 280-42039-3 | g2_8497.D | 05/17/2013 11:02 |
| B255SCS0204AA | 280-42039-4 | g2_8498.D | 05/17/2013 11:21 |
| B255SCS0208AA | 280-42039-5 | g2_8499.D | 05/17/2013 11:41 |
| B255SCS0212AA | 280-42039-6 | g2_8500.D | 05/17/2013 12:00 |
| B255SCS0304AA | 280-42039-7 | g2_8501.D | 05/17/2013 12:19 |
| B255SCS0308AA | 280-42039-8 | g2_8502.D | 05/17/2013 12:39 |
| B255SCS0312AA | 280-42039-9 | g2_8503.D | 05/17/2013 12:58 |
| B255SCS0104AC | 280-42039-10 | g2_8504.D | 05/17/2013 13:18 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: Z4178.D Lab Sample ID: MB 280-173812/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_Z Date Analyzed: 05/10/2013 20:57

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 280-173812/5 | Z4177.D | 05/10/2013 20:35 |
| 050613AE | 280-42039-11 | Z4205.D | 05/11/2013 06:56 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: Z4284.D Lab Sample ID: MB 280-174063/35

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_Z Date Analyzed: 05/13/2013 23:21

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 280-174063/34 | Z4283.D | 05/13/2013 22:59 |
| 050613AF | 280-42039-12 | Z4289.D | 05/14/2013 01:11 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_8398.D Lab Sample ID: MB 280-174465/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_G2 Date Analyzed: 05/15/2013 21:12

GC Column: DB-624 (60.25) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 280-174465/5 | g2_8397.D | 05/15/2013 20:53 |
| 050613AR | 280-42039-13 | g2_8406.D | 05/15/2013 23:49 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_5567.D BFB Injection Date: 02/28/2013

Instrument ID: VMS_G2 BFB Injection Time: 07:37

Analysis Batch No.: 162427

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 18.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.8 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 70.7 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.1 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 68.5 | (96.9)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.6 | (6.7)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 280-162427/16 | g2_5575.D | 02/28/2013 | 10:31 |
| | IC 280-162427/17 | g2_5576.D | 02/28/2013 | 10:49 |
| | IC 280-162427/18 | g2_5577.D | 02/28/2013 | 11:08 |
| | ICIS 280-162427/19 | g2_5578.D | 02/28/2013 | 11:27 |
| | IC 280-162427/20 | g2_5579.D | 02/28/2013 | 11:46 |
| | IC 280-162427/21 | g2_5580.D | 02/28/2013 | 12:04 |
| | ICV 280-162427/23 | g2_5583.D | 02/28/2013 | 13:12 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_7662.D BFB Injection Date: 04/30/2013

Instrument ID: VMS_G2 BFB Injection Time: 18:16

Analysis Batch No.: 171996

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 18.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 46.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.7 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 68.6 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.2 | (7.6)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 66.7 | (97.2)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.6 | (6.9)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD01 280-171996/4 | g2_7665.D | 04/30/2013 | 19:18 |
| | STD02 280-171996/5 | g2_7666.D | 04/30/2013 | 19:37 |
| | STD05 280-171996/6 | g2_7667.D | 04/30/2013 | 19:56 |
| | ICIS 280-171996/7 | g2_7668.D | 04/30/2013 | 20:15 |
| | STD30 280-171996/8 | g2_7669.D | 04/30/2013 | 20:34 |
| | STD60 280-171996/9 | g2_7670.D | 04/30/2013 | 20:53 |
| | ICV 280-171996/10 | g2_7671.D | 04/30/2013 | 21:13 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_8117.D BFB Injection Date: 05/09/2013

Instrument ID: VMS_G2 BFB Injection Time: 19:10

Analysis Batch No.: 173584

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 20.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.7 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.2 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 74.6 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.4 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 71.8 | (96.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.4 | (6.2)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD001 280-173584/2 | g2_8118.D | 05/09/2013 | 19:32 |
| | STD002 280-173584/5 | g2_8119.D | 05/09/2013 | 19:51 |
| | STD005 280-173584/6 | g2_8120.D | 05/09/2013 | 20:11 |
| | STD010 280-173584/7 | g2_8121.D | 05/09/2013 | 20:30 |
| | STD020 280-173584/8 | g2_8122.D | 05/09/2013 | 20:49 |
| | STD050 280-173584/9 | g2_8123.D | 05/09/2013 | 21:09 |
| | STD100 280-173584/10 | g2_8124.D | 05/09/2013 | 21:28 |
| | STD200 280-173584/11 | g2_8125.D | 05/09/2013 | 21:47 |
| | STD001 280-173584/12 | g2_8127.D | 05/09/2013 | 22:26 |
| | STD002 280-173584/13 | g2_8128.D | 05/09/2013 | 22:45 |
| | STD005 280-173584/14 | g2_8129.D | 05/09/2013 | 23:04 |
| | STD010 280-173584/15 | g2_8130.D | 05/09/2013 | 23:24 |
| | STD020 280-173584/16 | g2_8131.D | 05/09/2013 | 23:43 |
| | ICIS 280-173584/17 | g2_8132.D | 05/10/2013 | 00:02 |
| | STD100 280-173584/18 | g2_8133.D | 05/10/2013 | 00:22 |
| | STD200 280-173584/19 | g2_8134.D | 05/10/2013 | 00:41 |
| | ICV 280-173584/20 | g2_8135.D | 05/10/2013 | 01:01 |
| | ICV 280-173584/21 | g2_8136.D | 05/10/2013 | 01:20 |
| | STD005 280-173584/22 | g2_8137.D | 05/10/2013 | 01:39 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_8117.D BFB Injection Date: 05/09/2013

Instrument ID: VMS_G2 BFB Injection Time: 19:10

Analysis Batch No.: 173584

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 20.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.7 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.2 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 74.6 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.4 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 71.8 | (96.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.4 | (6.2)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD010 280-173584/23 | g2_8138.D | 05/10/2013 | 01:58 |
| | STD020 280-173584/24 | g2_8139.D | 05/10/2013 | 02:18 |
| | STD050 280-173584/25 | g2_8140.D | 05/10/2013 | 02:37 |
| | STD100 280-173584/26 | g2_8141.D | 05/10/2013 | 02:56 |
| | STD200 280-173584/27 | g2_8142.D | 05/10/2013 | 03:16 |
| | ICV 280-173584/28 | g2_8143.D | 05/10/2013 | 03:35 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_8146.D BFB Injection Date: 05/10/2013

Instrument ID: VMS_G2 BFB Injection Time: 07:11

Analysis Batch No.: 173622

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 19.5 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.1 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.8 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 76.5 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.8 | (7.6)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 74.1 | (96.9)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.9 | (6.6)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 280-173622/9 | g2_8149.D | 05/10/2013 | 08:14 |
| | IC 280-173622/10 | g2_8150.D | 05/10/2013 | 08:33 |
| | IC 280-173622/11 | g2_8151.D | 05/10/2013 | 08:52 |
| | IC 280-173622/12 | g2_8152.D | 05/10/2013 | 09:12 |
| | IC 280-173622/13 | g2_8153.D | 05/10/2013 | 09:31 |
| | IC 280-173622/14 | g2_8154.D | 05/10/2013 | 09:51 |
| | IC 280-173622/15 | g2_8155.D | 05/10/2013 | 10:10 |
| | ICV 280-173622/16 | g2_8157.D | 05/10/2013 | 11:22 |
| | ICV 280-173622/17 | g2_8160.D | 05/10/2013 | 12:20 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_8393.D BFB Injection Date: 05/15/2013

Instrument ID: VMS_G2 BFB Injection Time: 19:32

Analysis Batch No.: 174465

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.0 | |
| 75 | 30.0 - 60.0 % of mass 95 | 52.7 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 9.0 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 73.3 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.2 | (7.1)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 72.5 | (99.0)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.4 | (7.5)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 280-174465/4 | g2_8394.D | 05/15/2013 | 19:54 |
| | CCV 280-174465/2 | g2_8395.D | 05/15/2013 | 20:14 |
| | CCV 280-174465/3 | g2_8396.D | 05/15/2013 | 20:33 |
| | LCS 280-174465/5 | g2_8397.D | 05/15/2013 | 20:53 |
| | MB 280-174465/6 | g2_8398.D | 05/15/2013 | 21:12 |
| 050613AR | 280-42039-13 | g2_8406.D | 05/15/2013 | 23:49 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: g2_8485.D BFB Injection Date: 05/17/2013

Instrument ID: VMS_G2 BFB Injection Time: 07:05

Analysis Batch No.: 174695

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 20.2 | |
| 75 | 30.0 - 60.0 % of mass 95 | 52.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 78.6 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.7 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 76.5 | (97.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.3 | (7.0)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 280-174695/2 | g2_8486.D | 05/17/2013 | 07:14 |
| | CCV 280-174695/3 | g2_8487.D | 05/17/2013 | 07:33 |
| | CCV 280-174695/4 | g2_8488.D | 05/17/2013 | 07:53 |
| | CCV 280-174695/5 | g2_8489.D | 05/17/2013 | 08:23 |
| | LCS 280-174775/2-A | g2_8491.D | 05/17/2013 | 09:02 |
| | MB 280-174775/1-A | g2_8492.D | 05/17/2013 | 09:21 |
| B255SCS0104AA | 280-42039-1 | g2_8495.D | 05/17/2013 | 10:23 |
| B255SCS0108AA | 280-42039-2 | g2_8496.D | 05/17/2013 | 10:43 |
| B255SCS0112AA | 280-42039-3 | g2_8497.D | 05/17/2013 | 11:02 |
| B255SCS0204AA | 280-42039-4 | g2_8498.D | 05/17/2013 | 11:21 |
| B255SCS0208AA | 280-42039-5 | g2_8499.D | 05/17/2013 | 11:41 |
| B255SCS0212AA | 280-42039-6 | g2_8500.D | 05/17/2013 | 12:00 |
| B255SCS0304AA | 280-42039-7 | g2_8501.D | 05/17/2013 | 12:19 |
| B255SCS0308AA | 280-42039-8 | g2_8502.D | 05/17/2013 | 12:39 |
| B255SCS0312AA | 280-42039-9 | g2_8503.D | 05/17/2013 | 12:58 |
| B255SCS0104AC | 280-42039-10 | g2_8504.D | 05/17/2013 | 13:18 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: Z3797.D BFB Injection Date: 05/01/2013

Instrument ID: VMS_Z BFB Injection Time: 19:59

Analysis Batch No.: 172220

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 20.3 | |
| 75 | 30.0 - 60.0 % of mass 95 | 47.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.1 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 65.0 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.7 | (7.2)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 63.2 | (97.2)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.2 | (6.7)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD1 280-172220/35 | Z3802.D | 05/01/2013 | 21:57 |
| | STD2 280-172220/36 | Z3803.D | 05/01/2013 | 22:19 |
| | STD5 280-172220/37 | Z3804.D | 05/01/2013 | 22:42 |
| | ICIS 280-172220/38 | Z3805.D | 05/01/2013 | 23:04 |
| | STD30 280-172220/39 | Z3806.D | 05/01/2013 | 23:26 |
| | STD60 280-172220/40 | Z3807.D | 05/01/2013 | 23:48 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: Z4053.D BFB Injection Date: 05/08/2013

Instrument ID: VMS_Z BFB Injection Time: 18:11

Analysis Batch No.: 173382

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 18.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 44.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 72.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.7 | (7.9)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 70.5 | (97.7)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.3 | (6.1)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD003 280-173382/7 | Z4056.D | 05/08/2013 | 19:19 |
| | STD01 280-173382/32 | Z4057.D | 05/08/2013 | 19:41 |
| | STD02 280-173382/33 | Z4058.D | 05/08/2013 | 20:04 |
| | STD05 280-173382/34 | Z4059.D | 05/08/2013 | 20:26 |
| | STD10 280-173382/35 | Z4060.D | 05/08/2013 | 20:48 |
| | STD30 280-173382/36 | Z4061.D | 05/08/2013 | 21:11 |
| | STD60 280-173382/37 | Z4062.D | 05/08/2013 | 21:33 |
| | ICV 280-173382/38 | Z4064.D | 05/08/2013 | 22:17 |
| | STD01 280-173382/39 | Z4065.D | 05/08/2013 | 22:40 |
| | STD02 280-173382/40 | Z4066.D | 05/08/2013 | 23:02 |
| | STD05 280-173382/41 | Z4067.D | 05/08/2013 | 23:24 |
| | ICIS 280-173382/42 | Z4068.D | 05/08/2013 | 23:46 |
| | STD30 280-173382/43 | Z4069.D | 05/09/2013 | 00:09 |
| | STD60 280-173382/44 | Z4070.D | 05/09/2013 | 00:31 |
| | STD01 280-173382/45 | Z4071.D | 05/09/2013 | 00:53 |
| | STD02 280-173382/46 | Z4072.D | 05/09/2013 | 01:15 |
| | STD05 280-173382/47 | Z4073.D | 05/09/2013 | 01:37 |
| | STD10 280-173382/48 | Z4074.D | 05/09/2013 | 02:00 |
| | STD30 280-173382/49 | Z4075.D | 05/09/2013 | 02:22 |
| | STD60 280-173382/50 | Z4076.D | 05/09/2013 | 02:44 |
| | ICV 280-173382/51 | Z4077.D | 05/09/2013 | 03:06 |
| | ICV 280-173382/52 | Z4078.D | 05/09/2013 | 03:28 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: Z4173.D BFB Injection Date: 05/10/2013

Instrument ID: VMS_Z BFB Injection Time: 19:02

Analysis Batch No.: 173812

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 18.8 | |
| 75 | 30.0 - 60.0 % of mass 95 | 44.5 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.0 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 75.7 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.5 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 73.1 | (96.6)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.9 | (6.6)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 280-173812/2 | Z4174.D | 05/10/2013 | 19:28 |
| | CCV 280-173812/3 | Z4175.D | 05/10/2013 | 19:50 |
| | CCV 280-173812/4 | Z4176.D | 05/10/2013 | 20:12 |
| | LCS 280-173812/5 | Z4177.D | 05/10/2013 | 20:35 |
| | MB 280-173812/6 | Z4178.D | 05/10/2013 | 20:57 |
| 050613AE | 280-42039-11 | Z4205.D | 05/11/2013 | 06:56 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab File ID: Z4279.D BFB Injection Date: 05/13/2013

Instrument ID: VMS_Z BFB Injection Time: 21:31

Analysis Batch No.: 174063

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 19.0 | |
| 75 | 30.0 - 60.0 % of mass 95 | 44.9 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.0 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 72.0 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.1 | (7.1)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 69.6 | (96.6)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.6 | (6.6)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 280-174063/2 | Z4280.D | 05/13/2013 | 21:52 |
| | CCV 280-174063/3 | Z4281.D | 05/13/2013 | 22:15 |
| | CCV 280-174063/4 | Z4282.D | 05/13/2013 | 22:37 |
| | LCS 280-174063/34 | Z4283.D | 05/13/2013 | 22:59 |
| | MB 280-174063/35 | Z4284.D | 05/13/2013 | 23:21 |
| 050613AF | 280-42039-12 | Z4289.D | 05/14/2013 | 01:11 |

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Sample No.: ICIS 280-162427/19 Date Analyzed: 02/28/2013 11:27

Instrument ID: VMS_G2 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): g2_5578.D Heated Purge: (Y/N) N

Calibration ID: 12959

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1469270 | 7.66 | 274738 | 9.92 | 380831 | 11.75 |
| UPPER LIMIT | | 2938540 | 8.16 | 549476 | 10.42 | 761662 | 12.25 |
| LOWER LIMIT | | 734635 | 7.16 | 137369 | 9.42 | 190416 | 11.25 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 280-162427/23 | | 1074772 | 7.66 | 192738 | 9.92 | 299703 | 11.76 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B/DOD

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Sample No.: ICIS 280-173584/17 Date Analyzed: 05/10/2013 00:02

Instrument ID: VMS_G2 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): g2_8132.D Heated Purge: (Y/N) Y

Calibration ID: 14003

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 2249337 | 7.65 | 499715 | 9.91 | 733289 | 11.74 |
| UPPER LIMIT | | 4498674 | 8.15 | 999430 | 10.41 | 1466578 | 12.24 |
| LOWER LIMIT | | 1124669 | 7.15 | 249858 | 9.41 | 366645 | 11.24 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 280-173584/20 | | 2344615 | 7.65 | 522743 | 9.91 | 787849 | 11.74 |
| ICV 280-173584/21 | | 2230349 | 7.65 | 488568 | 9.91 | 730324 | 11.74 |
| ICV 280-173584/28 | | 2032897 | 7.65 | 451314 | 9.91 | 689095 | 11.74 |
| CCV 280-174695/2 | | 2534584 | 7.64 | 606802 | 9.91 | 951315 | 11.74 |
| CCV 280-174695/4 | | 2476278 | 7.65 | 583327 | 9.91 | 884420 | 11.74 |
| CCV 280-174695/5 | | 2537557 | 7.64 | 589044 | 9.91 | 933653 | 11.74 |
| 280-42039-1 | B255SCS0104AA | 2485558 | 7.65 | 577321 | 9.91 | 809741 | 11.74 |
| 280-42039-2 | B255SCS0108AA | 2486334 | 7.65 | 592386 | 9.91 | 921527 | 11.74 |
| 280-42039-3 | B255SCS0112AA | 2419877 | 7.65 | 592540 | 9.91 | 909195 | 11.74 |
| 280-42039-4 | B255SCS0204AA | 2316270 | 7.65 | 547054 | 9.91 | 777713 | 11.74 |
| 280-42039-5 | B255SCS0208AA | 2443596 | 7.65 | 538773 | 9.91 | 719964 | 11.74 |
| 280-42039-6 | B255SCS0212AA | 2436641 | 7.65 | 550400 | 9.91 | 799444 | 11.74 |
| 280-42039-7 | B255SCS0304AA | 2522974 | 7.65 | 577187 | 9.91 | 894203 | 11.74 |
| 280-42039-8 | B255SCS0308AA | 2525257 | 7.65 | 563811 | 9.91 | 828403 | 11.74 |
| 280-42039-9 | B255SCS0312AA | 2355254 | 7.65 | 545150 | 9.91 | 811912 | 11.74 |
| 280-42039-10 | B255SCS0104AC | 2399456 | 7.65 | 543909 | 9.91 | 791424 | 11.75 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B/DOD

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Sample No.: ICIS 280-171996/7 Date Analyzed: 04/30/2013 20:15

Instrument ID: VMS_G2 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): g2_7668.D Heated Purge: (Y/N) N

Calibration ID: 13824

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1820175 | 7.65 | 353573 | 9.91 | 447117 | 11.74 |
| UPPER LIMIT | | 3640350 | 8.15 | 707146 | 10.41 | 894234 | 12.24 |
| LOWER LIMIT | | 910088 | 7.15 | 176787 | 9.41 | 223559 | 11.24 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 280-162427/23 | | 1074772 | 7.66 | 192738 | 9.92 | 299703 | 11.76 |
| ICV 280-171996/10 | | 1808667 | 7.65 | 357013 | 9.91 | 449461 | 11.74 |
| ICV 280-173622/16 | | 1849013 | 7.65 | 377576 | 9.92 | 521934 | 11.75 |
| CCV 280-174465/4 | | 1815137 | 7.65 | 371231 | 9.92 | 500348 | 11.75 |
| CCV 280-174465/2 | | 1843185 | 7.65 | 377728 | 9.92 | 520518 | 11.75 |
| CCV 280-174465/3 | | 1892603 | 7.65 | 386326 | 9.92 | 509547 | 11.75 |
| LCS 280-174465/5 | | 1867555 | 7.65 | 385867 | 9.92 | 534956 | 11.75 |
| MB 280-174465/6 | | 1770779 | 7.65 | 363804 | 9.92 | 488026 | 11.75 |
| 280-42039-13 | 050613AR | 1701888 | 7.64 | 348503 | 9.92 | 447016 | 11.75 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Sample No.: ICIS 280-173382/42 Date Analyzed: 05/08/2013 23:46

Instrument ID: VMS_Z GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): Z4068.D Heated Purge: (Y/N) N

Calibration ID: 13943

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1155286 | 5.82 | 248306 | 10.37 | 434004 | 14.44 |
| UPPER LIMIT | | 2310572 | 6.32 | 496612 | 10.87 | 868008 | 14.94 |
| LOWER LIMIT | | 577643 | 5.32 | 124153 | 9.87 | 217002 | 13.94 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 280-173382/38 | | 1097387 | 5.82 | 232411 | 10.37 | 410523 | 14.44 |
| ICV 280-173382/51 | | 1166907 | 5.83 | 246776 | 10.35 | 432282 | 14.42 |
| ICV 280-173382/52 | | 1145364 | 5.83 | 244573 | 10.35 | 431594 | 14.42 |
| CCV 280-173812/2 | | 1494653 | 5.84 | 305938 | 10.37 | 557351 | 14.44 |
| CCV 280-173812/3 | | 1476527 | 5.84 | 312401 | 10.37 | 558525 | 14.44 |
| CCV 280-173812/4 | | 1432800 | 5.82 | 306700 | 10.37 | 540154 | 14.44 |
| LCS 280-173812/5 | | 1386122 | 5.84 | 287955 | 10.37 | 522641 | 14.44 |
| MB 280-173812/6 | | 1387828 | 5.84 | 297433 | 10.37 | 521283 | 14.44 |
| 280-42039-11 | 050613AE | 1390297 | 5.83 | 302153 | 10.35 | 535869 | 14.42 |
| CCV 280-174063/2 | | 1413761 | 5.85 | 294363 | 10.37 | 541161 | 14.44 |
| CCV 280-174063/3 | | 1455250 | 5.84 | 311468 | 10.37 | 555040 | 14.44 |
| CCV 280-174063/4 | | 1385440 | 5.84 | 298655 | 10.37 | 530642 | 14.44 |
| LCS 280-174063/34 | | 1443234 | 5.84 | 300688 | 10.37 | 548633 | 14.44 |
| MB 280-174063/35 | | 1444825 | 5.83 | 306603 | 10.37 | 549946 | 14.43 |
| 280-42039-12 | 050613AF | 1463850 | 5.83 | 317642 | 10.37 | 562479 | 14.42 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0104AA | Lab Sample ID: 280-42039-1

Matrix: Solid | Lab File ID: g2_8495.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 14:40

Sample wt/vol: 5.214(g) | Date Analyzed: 05/17/2013 10:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.8 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.3 | 1.1 | 0.55 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.3 | 1.1 | 0.64 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 21 | U | 21 | 21 | 0.47 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.3 | 1.1 | 0.93 |
| 75-34-3 | 1,1-Dichloroethane | 0.84 | U | 5.3 | 0.84 | 0.22 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.3 | 1.1 | 0.57 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.79 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.3 | 1.1 | 0.85 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.77 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.61 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.63 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.47 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.3 | 1.1 | 0.74 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.58 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.60 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.50 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.54 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.82 |
| 123-91-1 | 1,4-Dioxane | 84 | U | 530 | 84 | 59 |
| 544-10-5 | 1-Chlorohexane | 0.84 | U | 5.3 | 0.84 | 0.66 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.46 |
| 78-93-3 | 2-Butanone (MEK) | 6.7 | U | 21 | 6.7 | 1.9 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.3 | 1.1 | 0.54 |
| 591-78-6 | 2-Hexanone | 11 | U | 21 | 11 | 5.1 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.3 | 1.1 | 0.82 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.3 | 1.1 | 0.52 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 21 | 11 | 4.6 |
| 67-64-1 | Acetone | 11 | U | 21 | 11 | 5.7 |
| 71-43-2 | Benzene | 1.1 | U | 5.3 | 1.1 | 0.49 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.3 | 1.1 | 0.52 |
| 75-25-2 | Bromoform | 0.84 | U | 5.3 | 0.84 | 0.24 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.53 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.3 | 1.1 | 0.44 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0104AA | Lab Sample ID: 280-42039-1

Matrix: Solid | Lab File ID: g2_8495.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 14:40

Sample wt/vol: 5.214(g) | Date Analyzed: 05/17/2013 10:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.8 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.3 | 1.1 | 0.66 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.57 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.3 | 1.1 | 0.32 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.3 | 1.1 | 0.60 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.94 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.31 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.81 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.1 | U | 5.3 | 2.1 | 1.4 |
| 110-82-7 | Cyclohexane | 1.7 | U | 5.3 | 1.7 | 0.42 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.3 | 1.1 | 0.88 |
| 75-27-4 | Dichlorobromomethane | 0.84 | U | 5.3 | 0.84 | 0.23 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.55 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.70 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.3 | 1.1 | 0.55 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.3 | 1.1 | 0.58 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 79-20-9 | Methyl acetate | 4.2 | U | 8.9 | 4.2 | 2.9 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 21 | 1.1 | 0.36 |
| 108-87-2 | Methylcyclohexane | 0.84 | U | 5.3 | 0.84 | 0.44 |
| 75-09-2 | Methylene Chloride | 4.4 | J | 5.3 | 3.4 | 1.7 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.1 | U | 3.4 | 2.1 | 1.1 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.3 | 1.1 | 0.66 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.3 | 1.1 | 0.61 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.3 | 1.1 | 0.64 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.81 |
| 100-42-5 | Styrene | 1.1 | U | 5.3 | 1.1 | 0.66 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.53 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 108-88-3 | Toluene | 1.1 | U | 5.3 | 1.1 | 0.73 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.3 | 1.1 | 0.70 |
| 79-01-6 | Trichloroethene | 0.84 | U | 5.3 | 0.84 | 0.24 |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U | 11 | 2.1 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.1 | U | 5.3 | 2.1 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0104AA Lab Sample ID: 280-42039-1

Matrix: Solid Lab File ID: g2_8495.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 14:40

Sample wt/vol: 5.214(g) Date Analyzed: 05/17/2013 10:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.8 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 103 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 110 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 103 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8495.D
Lims ID: 280-42039-B-1-A Client ID: B255SCS0104AA
Inject. Date: 17-May-2013 10:23:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-1-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 10
Lims Batch ID: 174695 Lims Sample ID: 9
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 11:42:15

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2485558 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 86 | 577321 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 96 | 809741 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 58 | 622560 | 60.3 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 731856 | 55.6 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2466270 | 56.5 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 88 | 799744 | 56.4 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 95 | 14564 | 3.22 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 91 | 64717 | 4.16 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | 19 |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | 19 |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | 19 |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

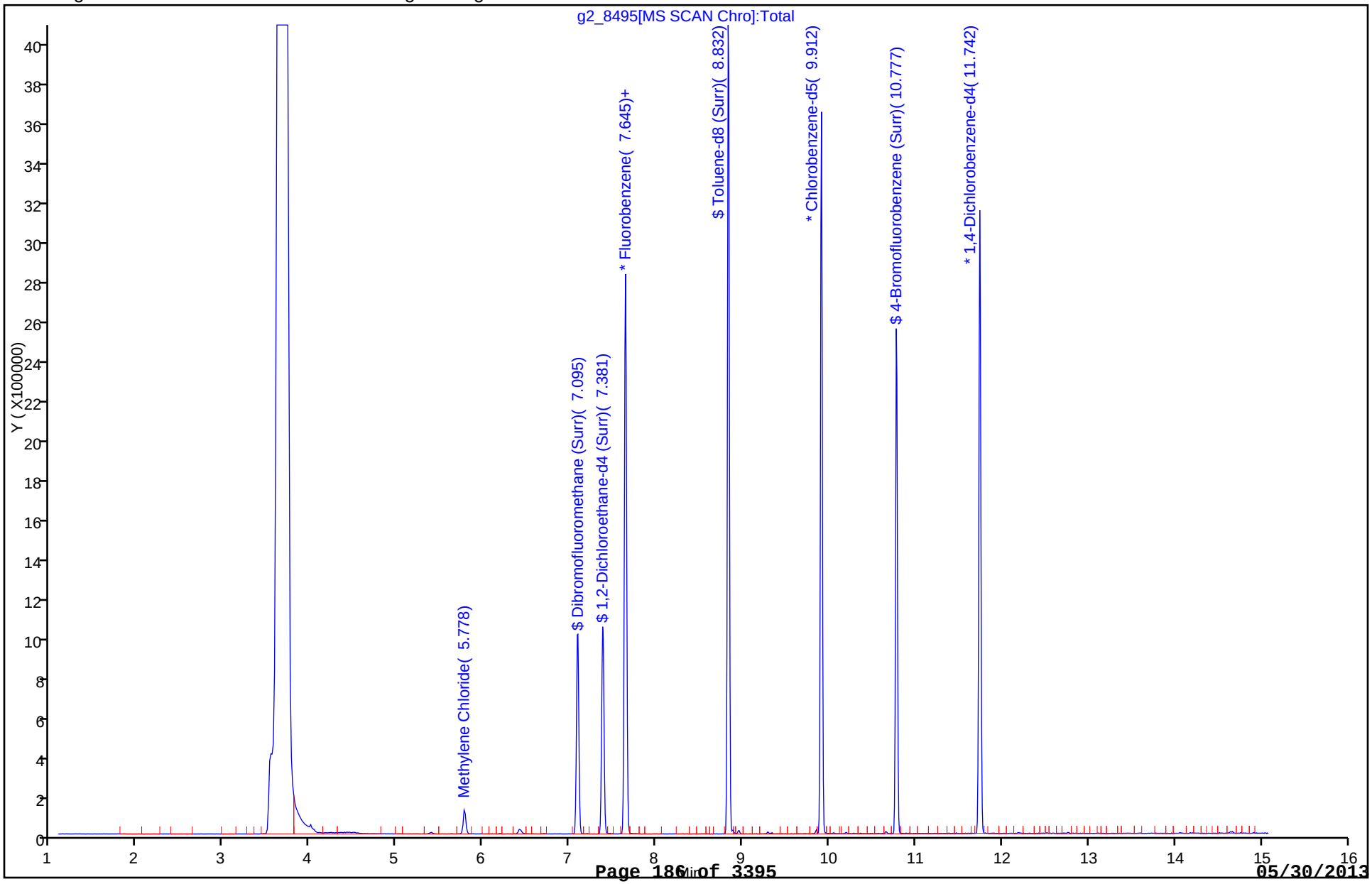
Report Date: 18-May-2013 06:26:36 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8495.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 10:23:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0104AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 9 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



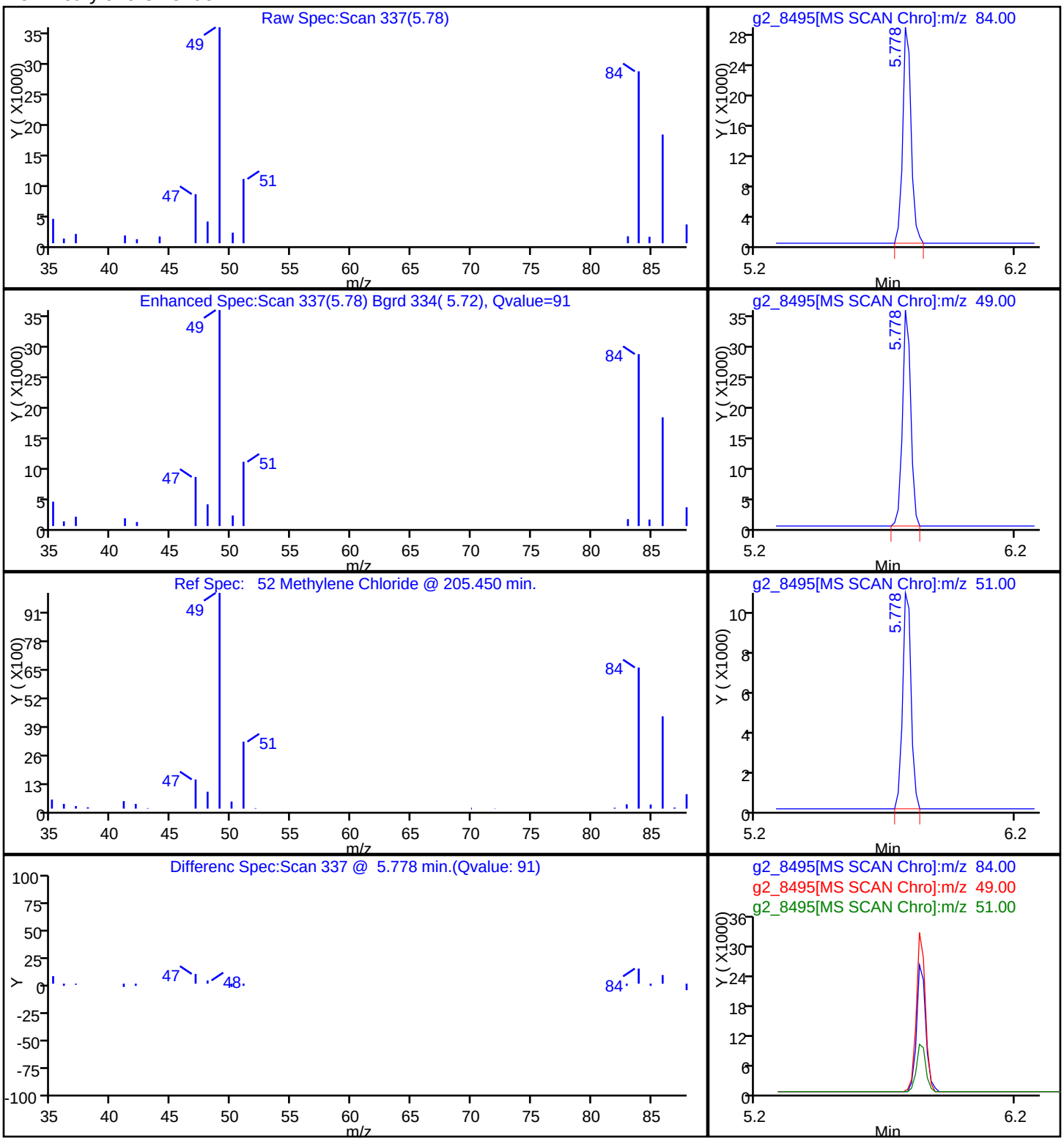
Report Date: 18-May-2013 06:26:36 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8495.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 10:23:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0104AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 9 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0108AA | Lab Sample ID: 280-42039-2

Matrix: Solid | Lab File ID: g2_8496.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 14:55

Sample wt/vol: 5.296(g) | Date Analyzed: 05/17/2013 10:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 14.8 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.5 | 1.1 | 0.62 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.5 | 1.1 | 0.58 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.5 | 1.1 | 0.68 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 22 | U | 22 | 22 | 0.50 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.5 | 1.1 | 0.98 |
| 75-34-3 | 1,1-Dichloroethane | 0.89 | U | 5.5 | 0.89 | 0.23 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.5 | 1.1 | 0.65 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.5 | 1.1 | 0.60 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.83 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.5 | 1.1 | 0.90 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.81 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.5 | 1.1 | 0.64 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.66 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.50 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.5 | 1.1 | 0.78 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.5 | 1.1 | 0.61 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.5 | 1.1 | 0.63 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.53 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.5 | 1.1 | 0.57 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.86 |
| 123-91-1 | 1,4-Dioxane | 89 | U | 550 | 89 | 62 |
| 544-10-5 | 1-Chlorohexane | 0.89 | U | 5.5 | 0.89 | 0.70 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.5 | 1.1 | 0.49 |
| 78-93-3 | 2-Butanone (MEK) | 7.1 | U | 22 | 7.1 | 2.0 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.5 | 1.1 | 0.57 |
| 591-78-6 | 2-Hexanone | 11 | U | 22 | 11 | 5.4 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.5 | 1.1 | 0.86 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.5 | 1.1 | 0.54 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 22 | 11 | 4.8 |
| 67-64-1 | Acetone | 11 | U | 22 | 11 | 6.0 |
| 71-43-2 | Benzene | 1.1 | U | 5.5 | 1.1 | 0.52 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.5 | 1.1 | 0.54 |
| 75-25-2 | Bromoform | 0.89 | U | 5.5 | 0.89 | 0.25 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.55 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.5 | 1.1 | 0.47 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0108AA | Lab Sample ID: 280-42039-2

Matrix: Solid | Lab File ID: g2_8496.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 14:55

Sample wt/vol: 5.296(g) | Date Analyzed: 05/17/2013 10:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 14.8 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.5 | 1.1 | 0.70 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.60 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.5 | 1.1 | 0.33 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.5 | 1.1 | 0.63 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.99 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.32 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.85 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.5 | 1.1 | 0.62 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.2 | U | 5.5 | 2.2 | 1.4 |
| 110-82-7 | Cyclohexane | 1.8 | U | 5.5 | 1.8 | 0.44 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.5 | 1.1 | 0.93 |
| 75-27-4 | Dichlorobromomethane | 0.89 | U | 5.5 | 0.89 | 0.24 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.58 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.5 | 1.1 | 0.74 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.5 | 1.1 | 0.58 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.5 | 1.1 | 0.61 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.5 | 1.1 | 0.65 |
| 79-20-9 | Methyl acetate | 4.4 | U | 9.4 | 4.4 | 3.0 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 22 | 1.1 | 0.38 |
| 108-87-2 | Methylcyclohexane | 0.89 | U | 5.5 | 0.89 | 0.47 |
| 75-09-2 | Methylene Chloride | 3.8 | J | 5.5 | 3.5 | 1.8 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.2 | U | 3.5 | 2.2 | 1.2 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.5 | 1.1 | 0.70 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.5 | 1.1 | 0.62 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.5 | 1.1 | 0.64 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.5 | 1.1 | 0.68 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.5 | 1.1 | 0.85 |
| 100-42-5 | Styrene | 1.1 | U | 5.5 | 1.1 | 0.70 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.5 | 1.1 | 0.55 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.5 | 1.1 | 0.65 |
| 108-88-3 | Toluene | 1.1 | U | 5.5 | 1.1 | 0.76 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.5 | 1.1 | 0.43 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.5 | 1.1 | 0.74 |
| 79-01-6 | Trichloroethene | 0.89 | U | 5.5 | 0.89 | 0.25 |
| 75-69-4 | Trichlorofluoromethane | 2.2 | U | 11 | 2.2 | 1.2 |
| 75-01-4 | Vinyl chloride | 2.2 | U | 5.5 | 2.2 | 1.5 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0108AA Lab Sample ID: 280-42039-2

Matrix: Solid Lab File ID: g2_8496.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 14:55

Sample wt/vol: 5.296(g) Date Analyzed: 05/17/2013 10:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 14.8 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 96 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 110 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8496.D
Lims ID: 280-42039-B-2-A Client ID: B255SCS0108AA
Inject. Date: 17-May-2013 10:43:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-2-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 11
Lims Batch ID: 174695 Lims Sample ID: 10
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 11:45:03

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2486334 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 86 | 592386 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 96 | 921527 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 58 | 625699 | 60.6 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.388 | 7.374 | 0.014 | 98 | 757415 | 57.6 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2489324 | 55.6 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 849589 | 52.7 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.415 | 5.387 | 0.029 | 85 | 15671 | 3.47 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 88 | 53129 | 3.42 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | 19 |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | 19 |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

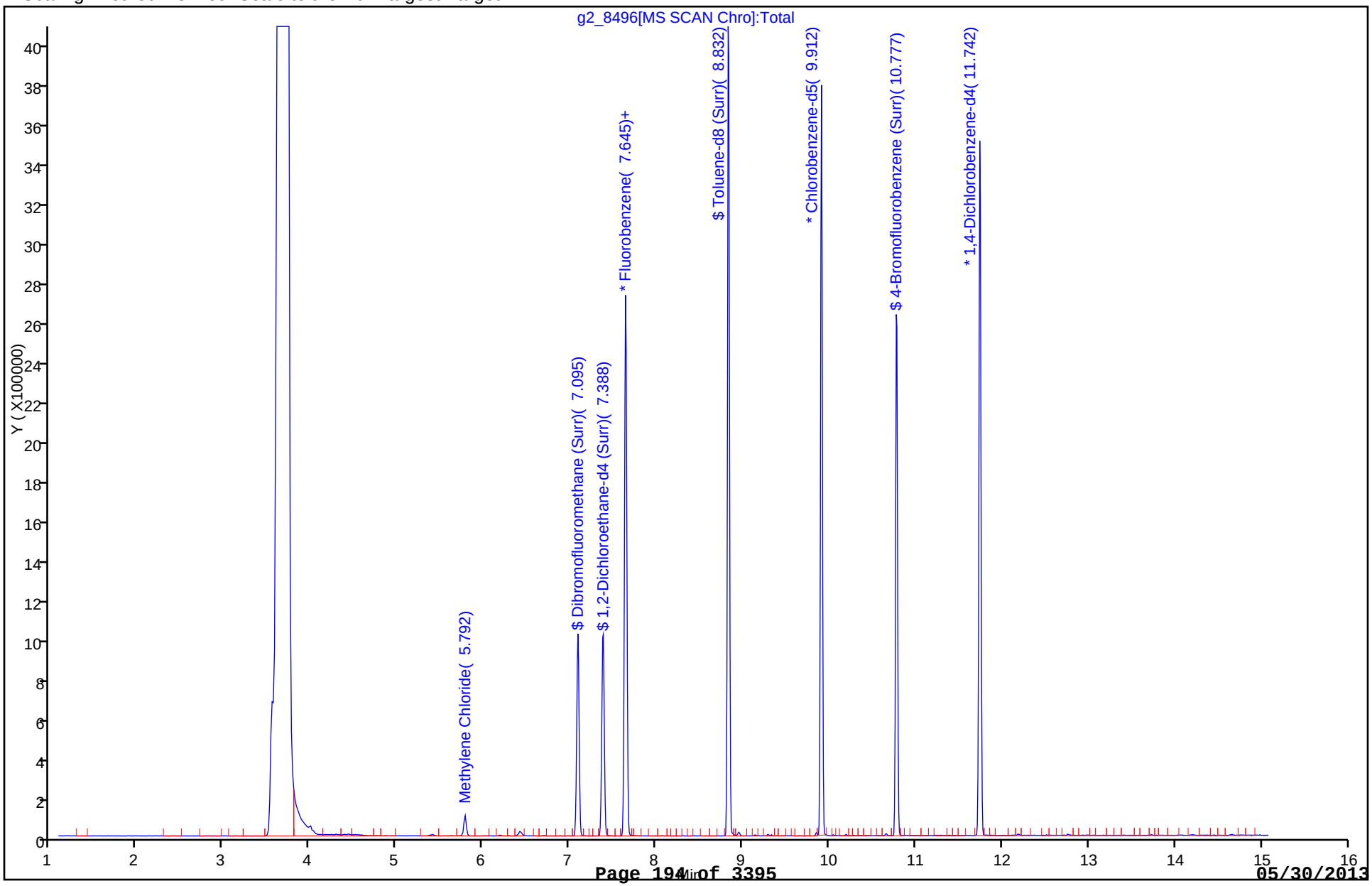
Report Date: 18-May-2013 06:26:37 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8496.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 10:43:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0108AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 10 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



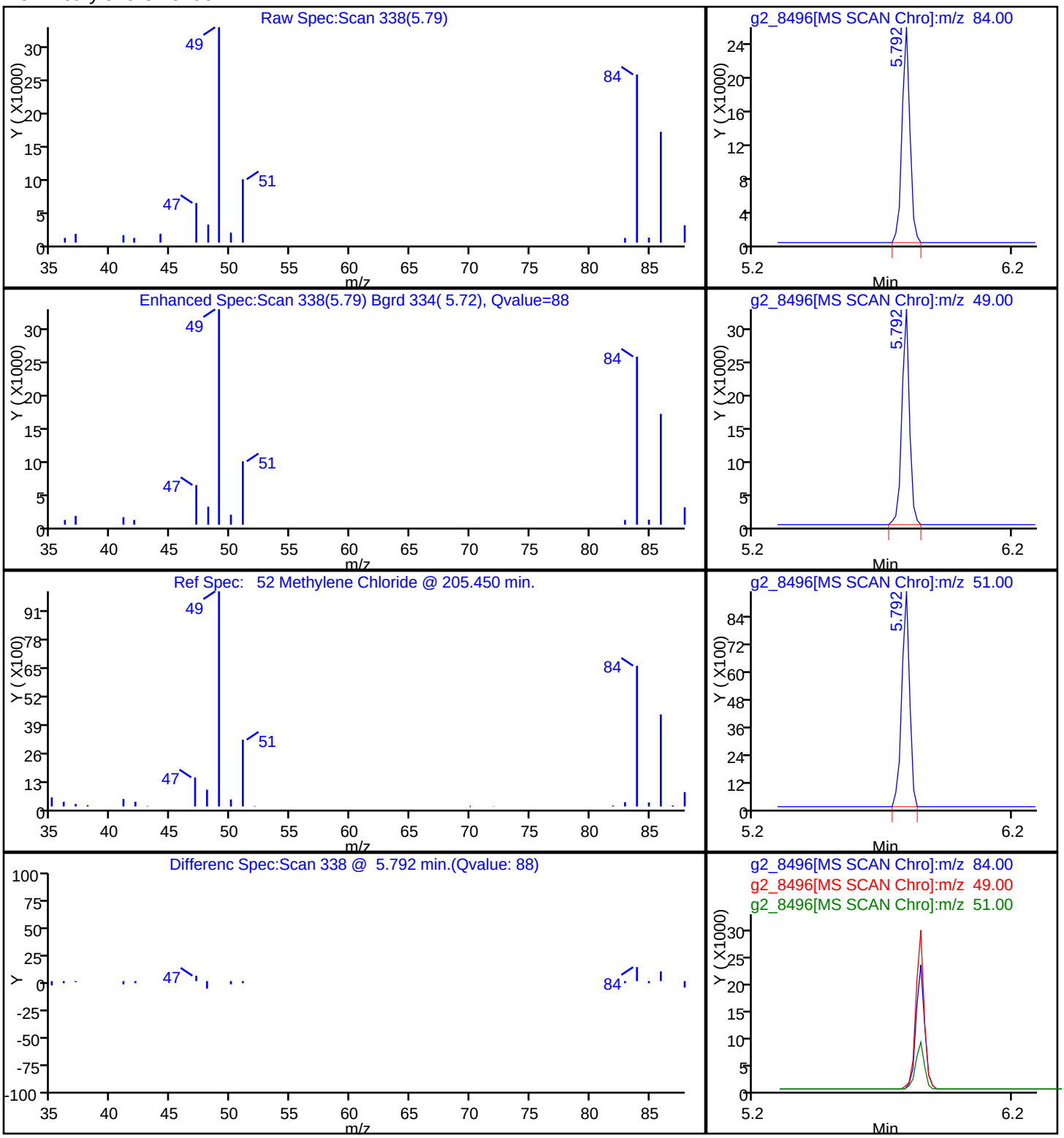
Report Date: 18-May-2013 06:26:37 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8496.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 10:43:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0108AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 10 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0112AA | Lab Sample ID: 280-42039-3

Matrix: Solid | Lab File ID: g2_8497.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:00

Sample wt/vol: 5.303(g) | Date Analyzed: 05/17/2013 11:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.9 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 5.2 | 1.0 | 0.59 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 5.2 | 1.0 | 0.54 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 5.2 | 1.0 | 0.64 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 21 | U | 21 | 21 | 0.47 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 5.2 | 1.0 | 0.92 |
| 75-34-3 | 1,1-Dichloroethane | 0.84 | U | 5.2 | 0.84 | 0.22 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 5.2 | 1.0 | 0.62 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 5.2 | 1.0 | 0.57 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 5.2 | 1.0 | 0.79 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 5.2 | 1.0 | 0.85 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 5.2 | 1.0 | 0.76 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 5.2 | 1.0 | 0.61 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 10 | 1.0 | 0.63 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 5.2 | 1.0 | 0.47 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 5.2 | 1.0 | 0.73 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 5.2 | 1.0 | 0.58 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 5.2 | 1.0 | 0.60 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 5.2 | 1.0 | 0.50 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 5.2 | 1.0 | 0.53 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 5.2 | 1.0 | 0.82 |
| 123-91-1 | 1,4-Dioxane | 84 | U | 520 | 84 | 59 |
| 544-10-5 | 1-Chlorohexane | 0.84 | U | 5.2 | 0.84 | 0.66 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 5.2 | 1.0 | 0.46 |
| 78-93-3 | 2-Butanone (MEK) | 6.7 | U | 21 | 6.7 | 1.9 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 5.2 | 1.0 | 0.53 |
| 591-78-6 | 2-Hexanone | 10 | U | 21 | 10 | 5.1 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 5.2 | 1.0 | 0.82 |
| 99-87-6 | 4-Isopropyltoluene | 1.0 | U | 5.2 | 1.0 | 0.51 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 10 | U | 21 | 10 | 4.6 |
| 67-64-1 | Acetone | 10 | U | 21 | 10 | 5.6 |
| 71-43-2 | Benzene | 1.0 | U | 5.2 | 1.0 | 0.49 |
| 108-86-1 | Bromobenzene | 1.0 | U | 5.2 | 1.0 | 0.51 |
| 75-25-2 | Bromoform | 0.84 | U | 5.2 | 0.84 | 0.24 |
| 74-83-9 | Bromomethane | 1.0 | U | 10 | 1.0 | 0.52 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 5.2 | 1.0 | 0.44 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0112AA | Lab Sample ID: 280-42039-3

Matrix: Solid | Lab File ID: g2_8497.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:00

Sample wt/vol: 5.303(g) | Date Analyzed: 05/17/2013 11:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.9 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 5.2 | 1.0 | 0.66 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 5.2 | 1.0 | 0.57 |
| 74-97-5 | Chlorobromomethane | 1.0 | U | 5.2 | 1.0 | 0.31 |
| 124-48-1 | Chlorodibromomethane | 1.0 | U | 5.2 | 1.0 | 0.60 |
| 75-00-3 | Chloroethane | 1.0 | U | 10 | 1.0 | 0.93 |
| 67-66-3 | Chloroform | 1.0 | U | 10 | 1.0 | 0.30 |
| 74-87-3 | Chloromethane | 1.0 | U | 10 | 1.0 | 0.81 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 5.2 | 1.0 | 0.59 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.1 | U | 5.2 | 2.1 | 1.4 |
| 110-82-7 | Cyclohexane | 1.7 | U | 5.2 | 1.7 | 0.42 |
| 74-95-3 | Dibromomethane | 1.0 | U | 5.2 | 1.0 | 0.88 |
| 75-27-4 | Dichlorobromomethane | 0.84 | U | 5.2 | 0.84 | 0.23 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 10 | 1.0 | 0.54 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 5.2 | 1.0 | 0.70 |
| 106-93-4 | Ethylene Dibromide | 1.0 | U | 5.2 | 1.0 | 0.54 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 5.2 | 1.0 | 0.58 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 5.2 | 1.0 | 0.62 |
| 79-20-9 | Methyl acetate | 4.2 | U | 8.9 | 4.2 | 2.9 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 21 | 1.0 | 0.36 |
| 108-87-2 | Methylcyclohexane | 0.84 | U | 5.2 | 0.84 | 0.44 |
| 75-09-2 | Methylene Chloride | 3.7 | J | 5.2 | 3.3 | 1.7 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.1 | U | 3.3 | 2.1 | 1.1 |
| 91-20-3 | Naphthalene | 1.0 | U | 5.2 | 1.0 | 0.66 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 5.2 | 1.0 | 0.59 |
| 103-65-1 | N-Propylbenzene | 1.0 | U | 5.2 | 1.0 | 0.61 |
| 95-47-6 | o-Xylene | 1.0 | U | 5.2 | 1.0 | 0.64 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 5.2 | 1.0 | 0.81 |
| 100-42-5 | Styrene | 1.0 | U | 5.2 | 1.0 | 0.66 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 5.2 | 1.0 | 0.52 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 5.2 | 1.0 | 0.62 |
| 108-88-3 | Toluene | 1.0 | U | 5.2 | 1.0 | 0.72 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 5.2 | 1.0 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 5.2 | 1.0 | 0.70 |
| 79-01-6 | Trichloroethene | 0.84 | U | 5.2 | 0.84 | 0.24 |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U | 10 | 2.1 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.1 | U | 5.2 | 2.1 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0112AA Lab Sample ID: 280-42039-3

Matrix: Solid Lab File ID: g2_8497.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 15:00

Sample wt/vol: 5.303(g) Date Analyzed: 05/17/2013 11:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.9 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 96 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 112 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8497.D
Lims ID: 280-42039-B-3-A Client ID: B255SCS0112AA
Inject. Date: 17-May-2013 11:02:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-3-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 12
Lims Batch ID: 174695 Lims Sample ID: 11
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 11:45:27

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2419877 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 85 | 592540 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 96 | 909195 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 58 | 616639 | 61.4 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.388 | 7.374 | 0.014 | 98 | 740631 | 57.8 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.839 | 8.832 | 0.007 | 93 | 2437743 | 54.5 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 841100 | 52.9 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 79 | 13823 | 3.14 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 90 | 53898 | 3.56 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

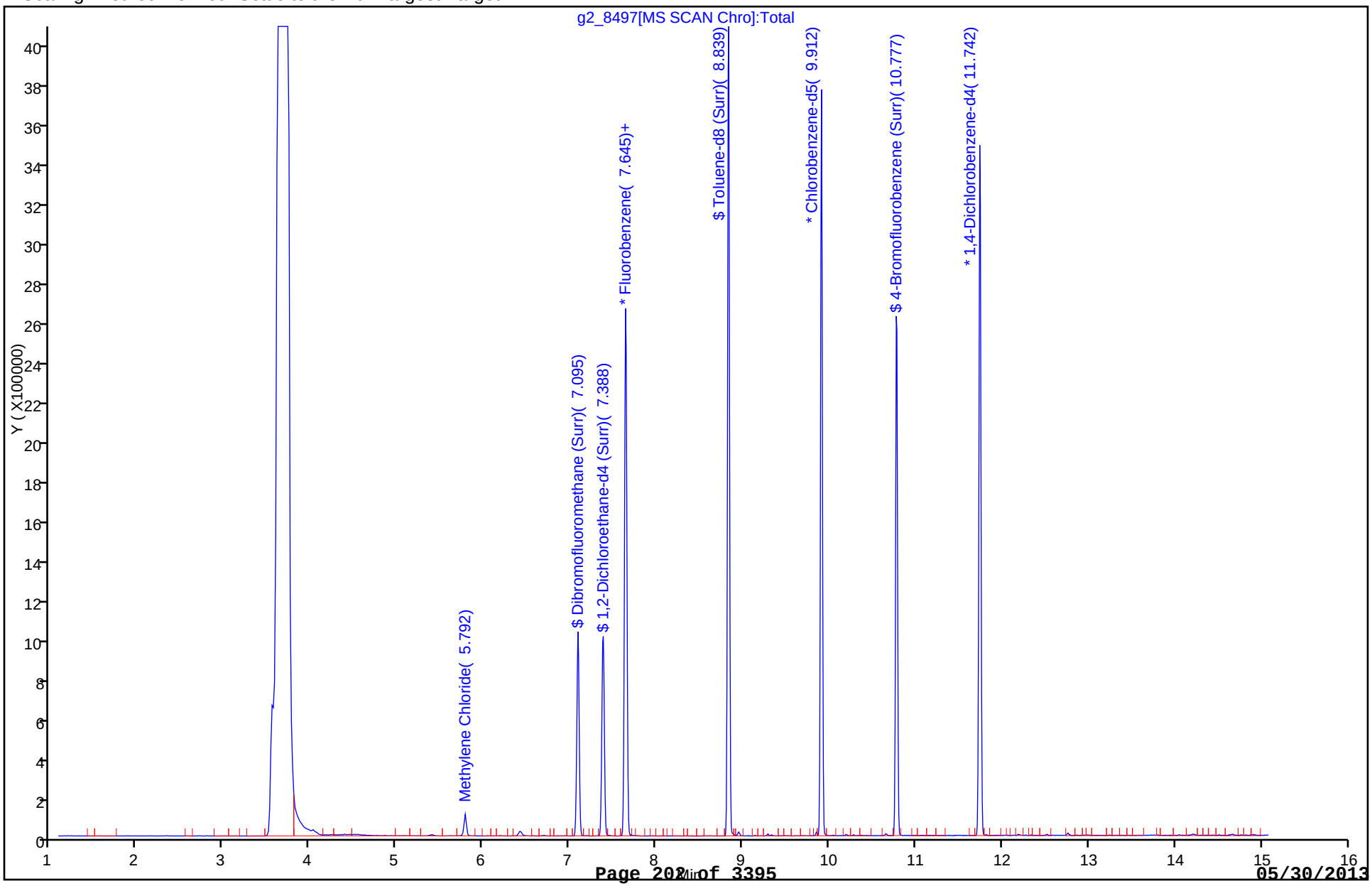
Report Date: 18-May-2013 06:26:38 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8497.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 11:02:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0112AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 11 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



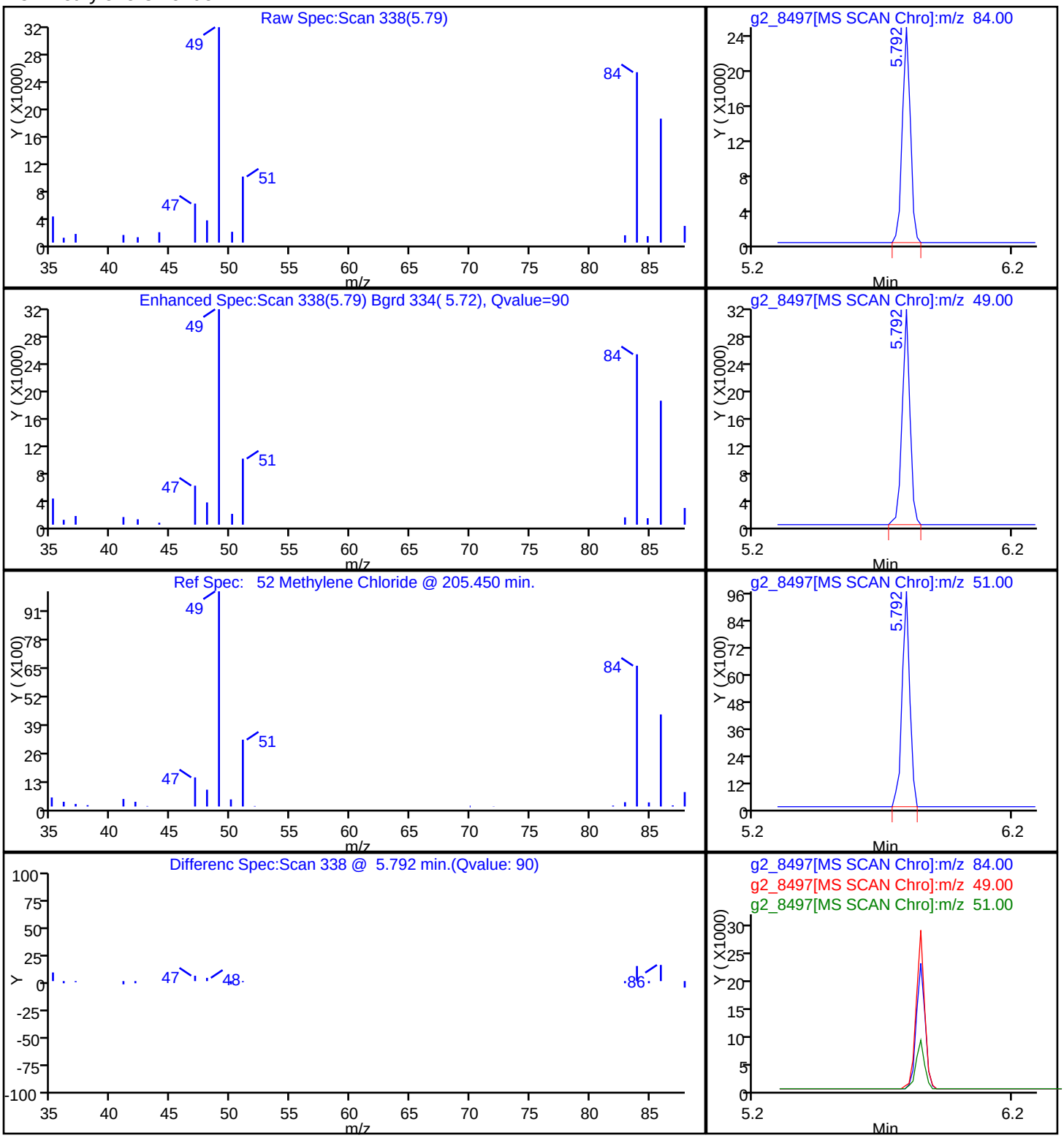
Report Date: 18-May-2013 06:26:38 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8497.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 11:02:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0112AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 11 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0204AA | Lab Sample ID: 280-42039-4

Matrix: Solid | Lab File ID: g2_8498.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:15

Sample wt/vol: 5.120(g) | Date Analyzed: 05/17/2013 11:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.4 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.3 | 1.1 | 0.60 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.3 | 1.1 | 0.55 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.3 | 1.1 | 0.65 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 21 | U | 21 | 21 | 0.48 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.3 | 1.1 | 0.94 |
| 75-34-3 | 1,1-Dichloroethane | 0.85 | U | 5.3 | 0.85 | 0.22 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.63 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.3 | 1.1 | 0.58 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.80 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.3 | 1.1 | 0.86 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.78 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.64 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.48 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.3 | 1.1 | 0.75 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.61 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.51 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.54 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.83 |
| 123-91-1 | 1,4-Dioxane | 85 | U | 530 | 85 | 60 |
| 544-10-5 | 1-Chlorohexane | 0.85 | U | 5.3 | 0.85 | 0.67 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.47 |
| 78-93-3 | 2-Butanone (MEK) | 6.8 | U | 21 | 6.8 | 2.0 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.3 | 1.1 | 0.54 |
| 591-78-6 | 2-Hexanone | 11 | U | 21 | 11 | 5.2 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.3 | 1.1 | 0.83 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.3 | 1.1 | 0.52 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 21 | 11 | 4.6 |
| 67-64-1 | Acetone | 11 | U | 21 | 11 | 5.7 |
| 71-43-2 | Benzene | 1.1 | U | 5.3 | 1.1 | 0.50 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.3 | 1.1 | 0.52 |
| 75-25-2 | Bromoform | 0.85 | U | 5.3 | 0.85 | 0.25 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.53 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.3 | 1.1 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0204AA | Lab Sample ID: 280-42039-4

Matrix: Solid | Lab File ID: g2_8498.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:15

Sample wt/vol: 5.120(g) | Date Analyzed: 05/17/2013 11:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.4 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.3 | 1.1 | 0.67 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.58 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.3 | 1.1 | 0.32 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.3 | 1.1 | 0.61 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.95 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.31 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.82 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.60 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.1 | U | 5.3 | 2.1 | 1.4 |
| 110-82-7 | Cyclohexane | 1.7 | U | 5.3 | 1.7 | 0.43 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.3 | 1.1 | 0.90 |
| 75-27-4 | Dichlorobromomethane | 0.85 | U | 5.3 | 0.85 | 0.23 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.55 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.71 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.3 | 1.1 | 0.55 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.3 | 1.1 | 0.63 |
| 79-20-9 | Methyl acetate | 4.3 | U | 9.1 | 4.3 | 2.9 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 21 | 1.1 | 0.36 |
| 108-87-2 | Methylcyclohexane | 0.85 | U | 5.3 | 0.85 | 0.45 |
| 75-09-2 | Methylene Chloride | 4.2 | J | 5.3 | 3.4 | 1.7 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.1 | U | 3.4 | 2.1 | 1.1 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.3 | 1.1 | 0.67 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.60 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.3 | 1.1 | 0.65 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.82 |
| 100-42-5 | Styrene | 1.1 | U | 5.3 | 1.1 | 0.67 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.53 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.3 | 1.1 | 0.63 |
| 108-88-3 | Toluene | 1.1 | U | 5.3 | 1.1 | 0.74 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.42 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.3 | 1.1 | 0.71 |
| 79-01-6 | Trichloroethene | 0.85 | U | 5.3 | 0.85 | 0.25 |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U | 11 | 2.1 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.1 | U | 5.3 | 2.1 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0204AA Lab Sample ID: 280-42039-4

Matrix: Solid Lab File ID: g2_8498.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 15:15

Sample wt/vol: 5.120(g) Date Analyzed: 05/17/2013 11:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.4 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 112 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8498.D
Lims ID: 280-42039-B-4-A Client ID: B255SCS0204AA
Inject. Date: 17-May-2013 11:21:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-4-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 13
Lims Batch ID: 174695 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 12:37:29

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2316270 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 86 | 547054 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.743 | 11.743 | -0.001 | 96 | 777713 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 58 | 591136 | 61.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 690406 | 56.3 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2307293 | 55.8 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 745348 | 54.8 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 77 | 13252 | 3.15 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 89 | 56828 | 3.92 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | 19 |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | 19 |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | 19 |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

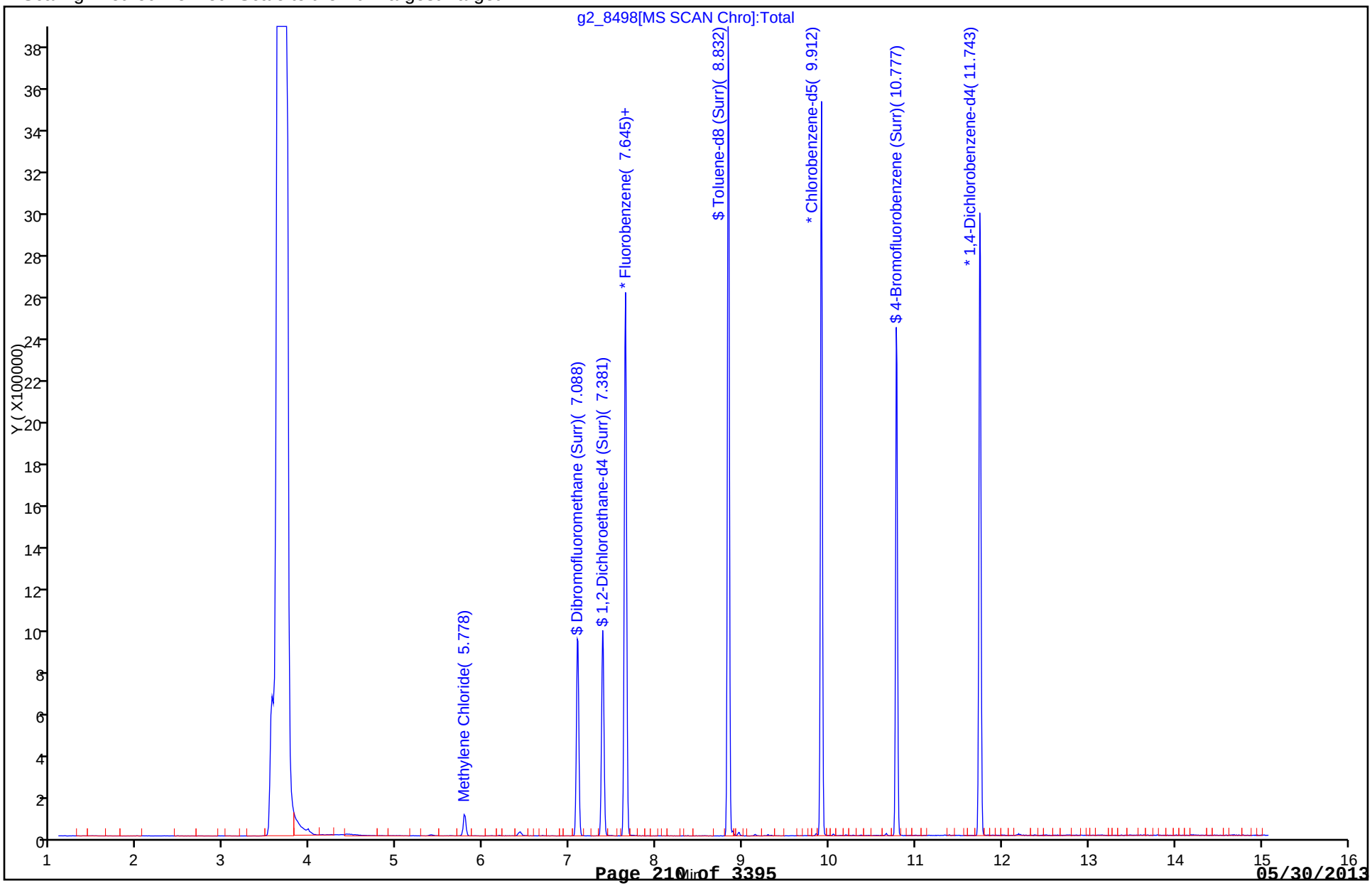
Report Date: 18-May-2013 06:26:38 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8498.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 11:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0204AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 12 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

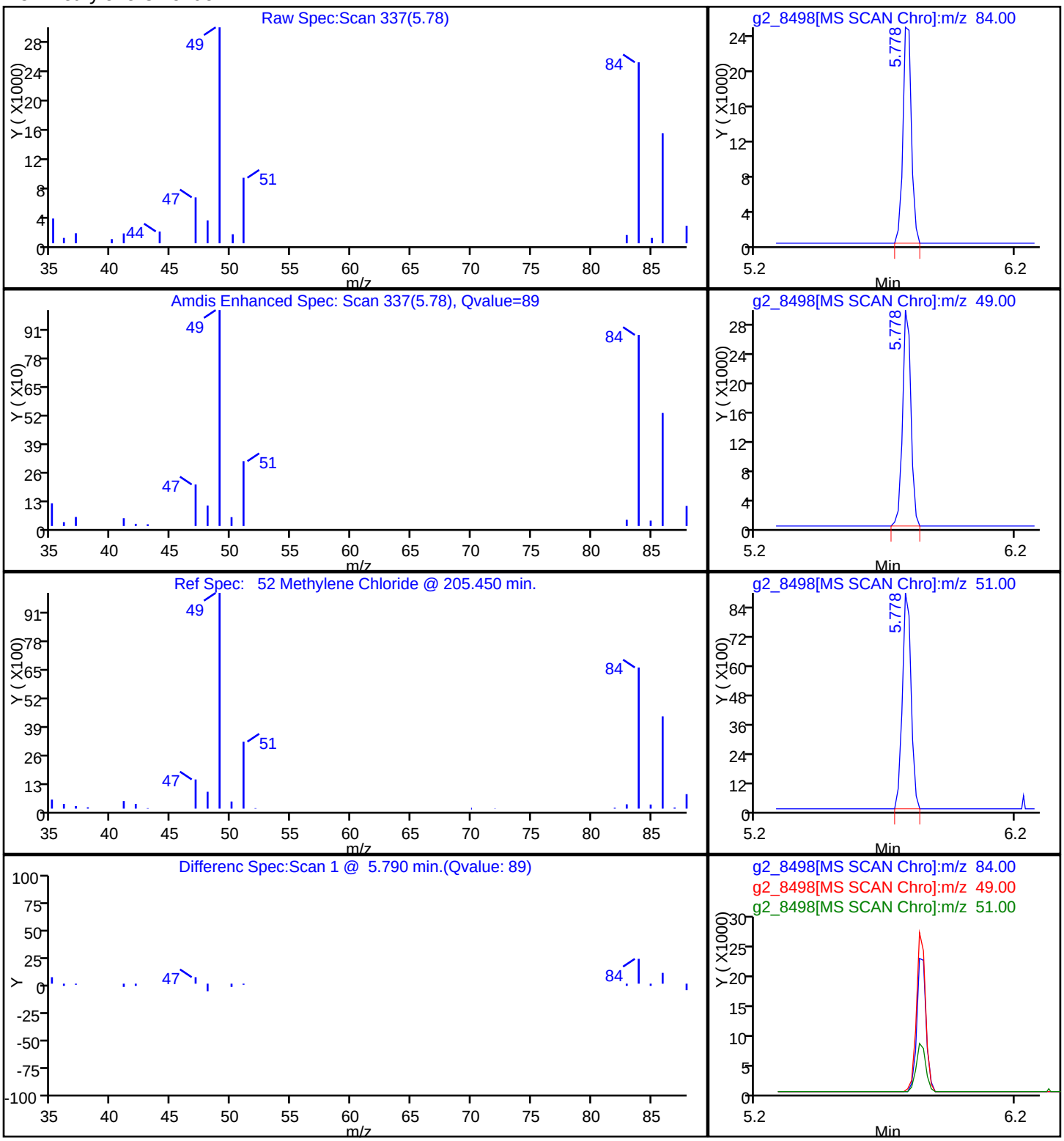


Report Date: 18-May-2013 06:26:38 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8498.D | | |
| Injection Date: | 17-May-2013 11:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0204AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 12 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0208AA | Lab Sample ID: 280-42039-5

Matrix: Solid | Lab File ID: g2_8499.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:19

Sample wt/vol: 5.104(g) | Date Analyzed: 05/17/2013 11:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 14.7 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.7 | 1.1 | 0.64 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.7 | 1.1 | 0.60 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.7 | 1.1 | 0.70 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 23 | U | 23 | 23 | 0.52 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.7 | 1.1 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 0.92 | U | 5.7 | 0.92 | 0.24 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.7 | 1.1 | 0.68 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.7 | 1.1 | 0.62 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.7 | 1.1 | 0.86 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.7 | 1.1 | 0.93 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.7 | 1.1 | 0.84 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.7 | 1.1 | 0.67 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.69 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.7 | 1.1 | 0.52 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.7 | 1.1 | 0.80 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.7 | 1.1 | 0.63 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.7 | 1.1 | 0.65 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.7 | 1.1 | 0.55 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.7 | 1.1 | 0.59 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.7 | 1.1 | 0.90 |
| 123-91-1 | 1,4-Dioxane | 92 | U | 570 | 92 | 64 |
| 544-10-5 | 1-Chlorohexane | 0.92 | U | 5.7 | 0.92 | 0.72 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.7 | 1.1 | 0.51 |
| 78-93-3 | 2-Butanone (MEK) | 7.4 | U | 23 | 7.4 | 2.1 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.7 | 1.1 | 0.59 |
| 591-78-6 | 2-Hexanone | 11 | U | 23 | 11 | 5.6 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.7 | 1.1 | 0.90 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.7 | 1.1 | 0.56 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 23 | 11 | 5.0 |
| 67-64-1 | Acetone | 11 | U | 23 | 11 | 6.2 |
| 71-43-2 | Benzene | 1.1 | U | 5.7 | 1.1 | 0.54 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.7 | 1.1 | 0.56 |
| 75-25-2 | Bromoform | 0.92 | U | 5.7 | 0.92 | 0.26 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.57 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.7 | 1.1 | 0.48 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0208AA | Lab Sample ID: 280-42039-5

Matrix: Solid | Lab File ID: g2_8499.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:19

Sample wt/vol: 5.104(g) | Date Analyzed: 05/17/2013 11:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 14.7 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.7 | 1.1 | 0.72 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.7 | 1.1 | 0.62 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.7 | 1.1 | 0.34 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.7 | 1.1 | 0.65 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 1.0 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.33 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.88 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.7 | 1.1 | 0.64 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.3 | U | 5.7 | 2.3 | 1.5 |
| 110-82-7 | Cyclohexane | 1.8 | U | 5.7 | 1.8 | 0.46 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.7 | 1.1 | 0.97 |
| 75-27-4 | Dichlorobromomethane | 0.92 | U | 5.7 | 0.92 | 0.25 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.60 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.7 | 1.1 | 0.77 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.7 | 1.1 | 0.60 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.7 | 1.1 | 0.63 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.7 | 1.1 | 0.68 |
| 79-20-9 | Methyl acetate | 4.6 | U | 9.8 | 4.6 | 3.2 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 23 | 1.1 | 0.39 |
| 108-87-2 | Methylcyclohexane | 0.92 | U | 5.7 | 0.92 | 0.48 |
| 75-09-2 | Methylene Chloride | 4.7 | J | 5.7 | 3.7 | 1.8 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.3 | U | 3.7 | 2.3 | 1.2 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.7 | 1.1 | 0.72 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.7 | 1.1 | 0.64 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.7 | 1.1 | 0.67 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.7 | 1.1 | 0.70 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.7 | 1.1 | 0.88 |
| 100-42-5 | Styrene | 1.1 | U | 5.7 | 1.1 | 0.72 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.7 | 1.1 | 0.57 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.7 | 1.1 | 0.68 |
| 108-88-3 | Toluene | 1.1 | U | 5.7 | 1.1 | 0.79 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.7 | 1.1 | 0.45 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.7 | 1.1 | 0.77 |
| 79-01-6 | Trichloroethene | 0.92 | U | 5.7 | 0.92 | 0.26 |
| 75-69-4 | Trichlorofluoromethane | 2.3 | U | 11 | 2.3 | 1.2 |
| 75-01-4 | Vinyl chloride | 2.3 | U | 5.7 | 2.3 | 1.5 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0208AA Lab Sample ID: 280-42039-5

Matrix: Solid Lab File ID: g2_8499.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 15:19

Sample wt/vol: 5.104(g) Date Analyzed: 05/17/2013 11:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 14.7 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 106 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 104 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8499.D
Lims ID: 280-42039-B-5-A Client ID: B255SCS0208AA
Inject. Date: 17-May-2013 11:41:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-5-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 174695 Lims Sample ID: 13
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 12:37:54

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2443596 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 84 | 538773 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.743 | 11.743 | 0.0 | 96 | 719964 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 58 | 593594 | 58.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 687744 | 53.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2325536 | 57.1 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 729901 | 57.9 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 77 | 12134 | 2.73 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 85 | 62088 | 4.06 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | 19 |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

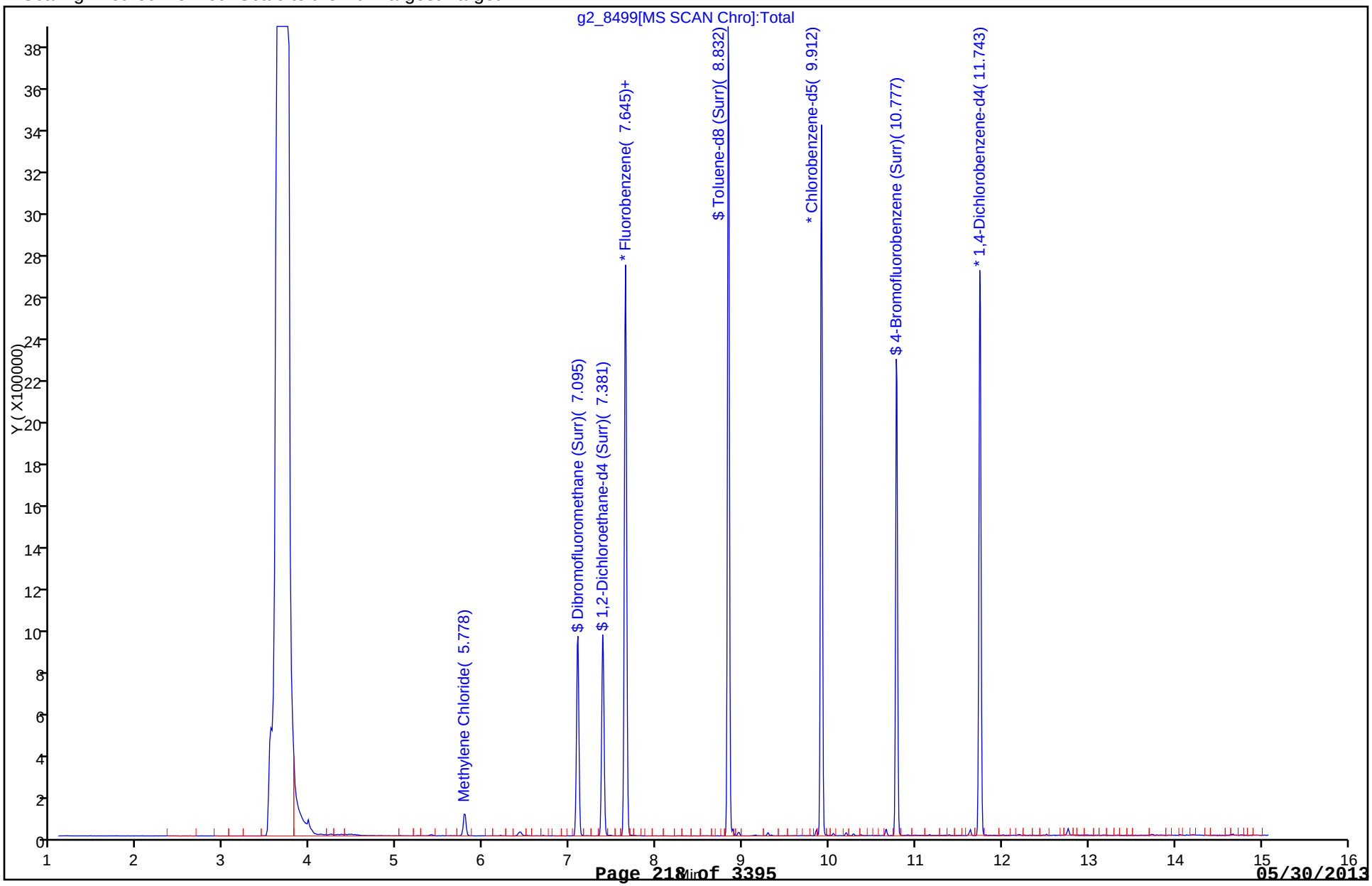
Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

Report Date: 18-May-2013 06:26:39 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8499.D | | |
| Injection Date: | 17-May-2013 11:41:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0208AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 13 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

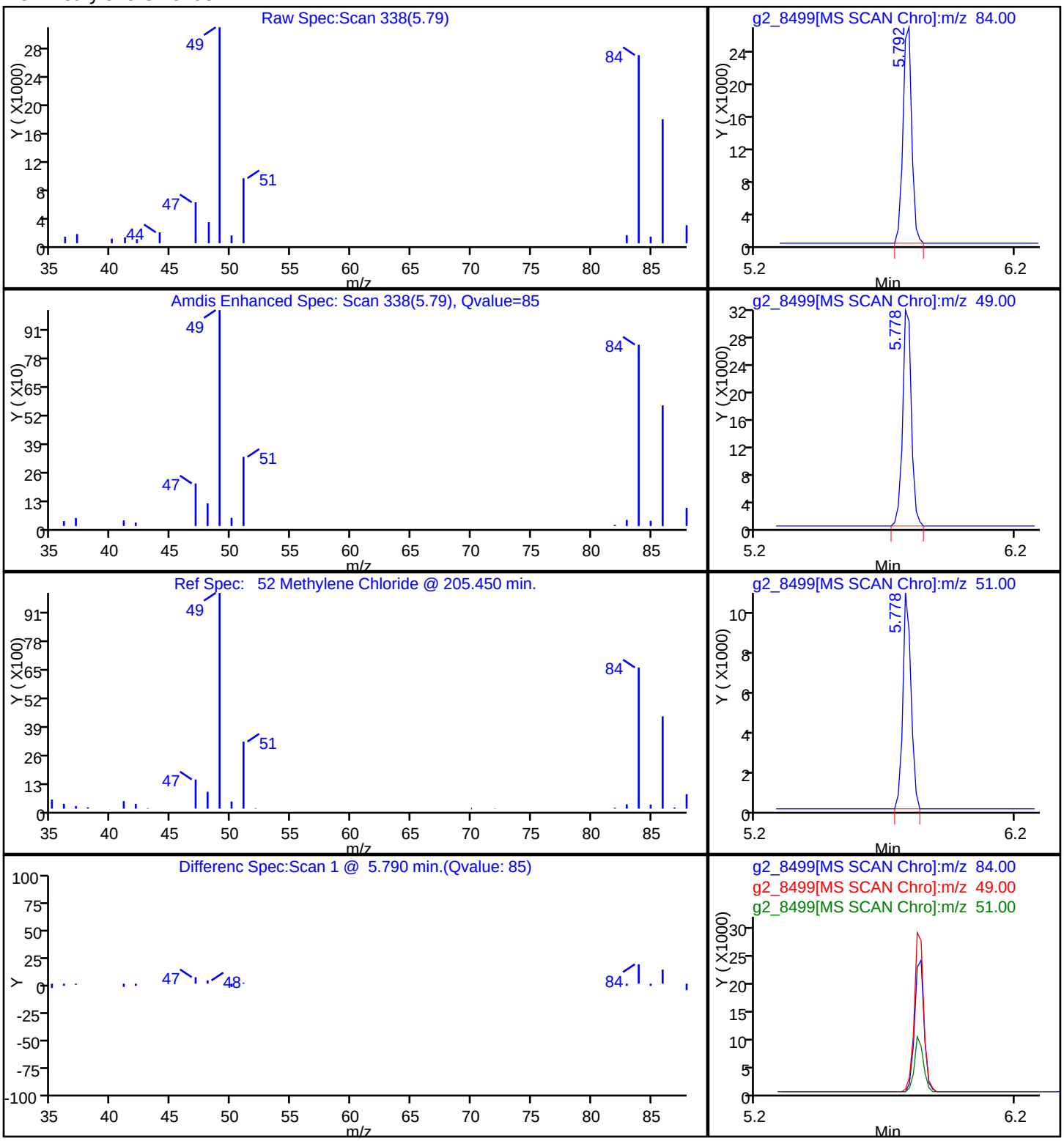


Report Date: 18-May-2013 06:26:39 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8499.D | | |
| Injection Date: | 17-May-2013 11:41:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0208AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 13 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0212AA | Lab Sample ID: 280-42039-6

Matrix: Solid | Lab File ID: g2_8500.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:25

Sample wt/vol: 5.112(g) | Date Analyzed: 05/17/2013 12:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.5 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.4 | 1.1 | 0.56 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.4 | 1.1 | 0.66 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 22 | U | 22 | 22 | 0.49 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.4 | 1.1 | 0.95 |
| 75-34-3 | 1,1-Dichloroethane | 0.86 | U | 5.4 | 0.86 | 0.23 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.64 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.4 | 1.1 | 0.58 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.81 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.4 | 1.1 | 0.88 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.79 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.65 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.49 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.4 | 1.1 | 0.76 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.59 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.62 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.52 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.55 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.84 |
| 123-91-1 | 1,4-Dioxane | 86 | U | 540 | 86 | 61 |
| 544-10-5 | 1-Chlorohexane | 0.86 | U | 5.4 | 0.86 | 0.68 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.48 |
| 78-93-3 | 2-Butanone (MEK) | 6.9 | U | 22 | 6.9 | 2.0 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.4 | 1.1 | 0.55 |
| 591-78-6 | 2-Hexanone | 11 | U | 22 | 11 | 5.3 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.4 | 1.1 | 0.84 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.4 | 1.1 | 0.53 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 22 | 11 | 4.7 |
| 67-64-1 | Acetone | 11 | U | 22 | 11 | 5.8 |
| 71-43-2 | Benzene | 1.1 | U | 5.4 | 1.1 | 0.51 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.4 | 1.1 | 0.53 |
| 75-25-2 | Bromoform | 0.86 | U | 5.4 | 0.86 | 0.25 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.54 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.4 | 1.1 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0212AA | Lab Sample ID: 280-42039-6

Matrix: Solid | Lab File ID: g2_8500.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:25

Sample wt/vol: 5.112(g) | Date Analyzed: 05/17/2013 12:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.5 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.58 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.4 | 1.1 | 0.32 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.4 | 1.1 | 0.62 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.96 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.31 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.83 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.2 | U | 5.4 | 2.2 | 1.4 |
| 110-82-7 | Cyclohexane | 1.7 | U | 5.4 | 1.7 | 0.43 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.4 | 1.1 | 0.91 |
| 75-27-4 | Dichlorobromomethane | 0.86 | U | 5.4 | 0.86 | 0.24 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.56 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.72 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.4 | 1.1 | 0.56 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.4 | 1.1 | 0.59 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.4 | 1.1 | 0.64 |
| 79-20-9 | Methyl acetate | 4.3 | U | 9.2 | 4.3 | 3.0 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 22 | 1.1 | 0.37 |
| 108-87-2 | Methylcyclohexane | 0.86 | U | 5.4 | 0.86 | 0.45 |
| 75-09-2 | Methylene Chloride | 4.4 | J | 5.4 | 3.5 | 1.7 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.2 | U | 3.5 | 2.2 | 1.1 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.4 | 1.1 | 0.66 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.83 |
| 100-42-5 | Styrene | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.54 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.4 | 1.1 | 0.64 |
| 108-88-3 | Toluene | 1.1 | U | 5.4 | 1.1 | 0.75 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.42 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.4 | 1.1 | 0.72 |
| 79-01-6 | Trichloroethene | 0.86 | U | 5.4 | 0.86 | 0.25 |
| 75-69-4 | Trichlorofluoromethane | 2.2 | U | 11 | 2.2 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.2 | U | 5.4 | 2.2 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0212AA Lab Sample ID: 280-42039-6

Matrix: Solid Lab File ID: g2_8500.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 15:25

Sample wt/vol: 5.112(g) Date Analyzed: 05/17/2013 12:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.5 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 99 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 102 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8500.D
Lims ID: 280-42039-B-6-A Client ID: B255SCS0212AA
Inject. Date: 17-May-2013 12:00:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-6-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 15
Lims Batch ID: 174695 Lims Sample ID: 14
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 12:38:06

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2436641 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 85 | 550400 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 96 | 799444 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 63 | 583248 | 57.6 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 673312 | 52.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.839 | 8.832 | 0.007 | 93 | 2323354 | 55.9 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 88 | 761876 | 54.5 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 81 | 14281 | 3.23 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 86 | 62206 | 4.08 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

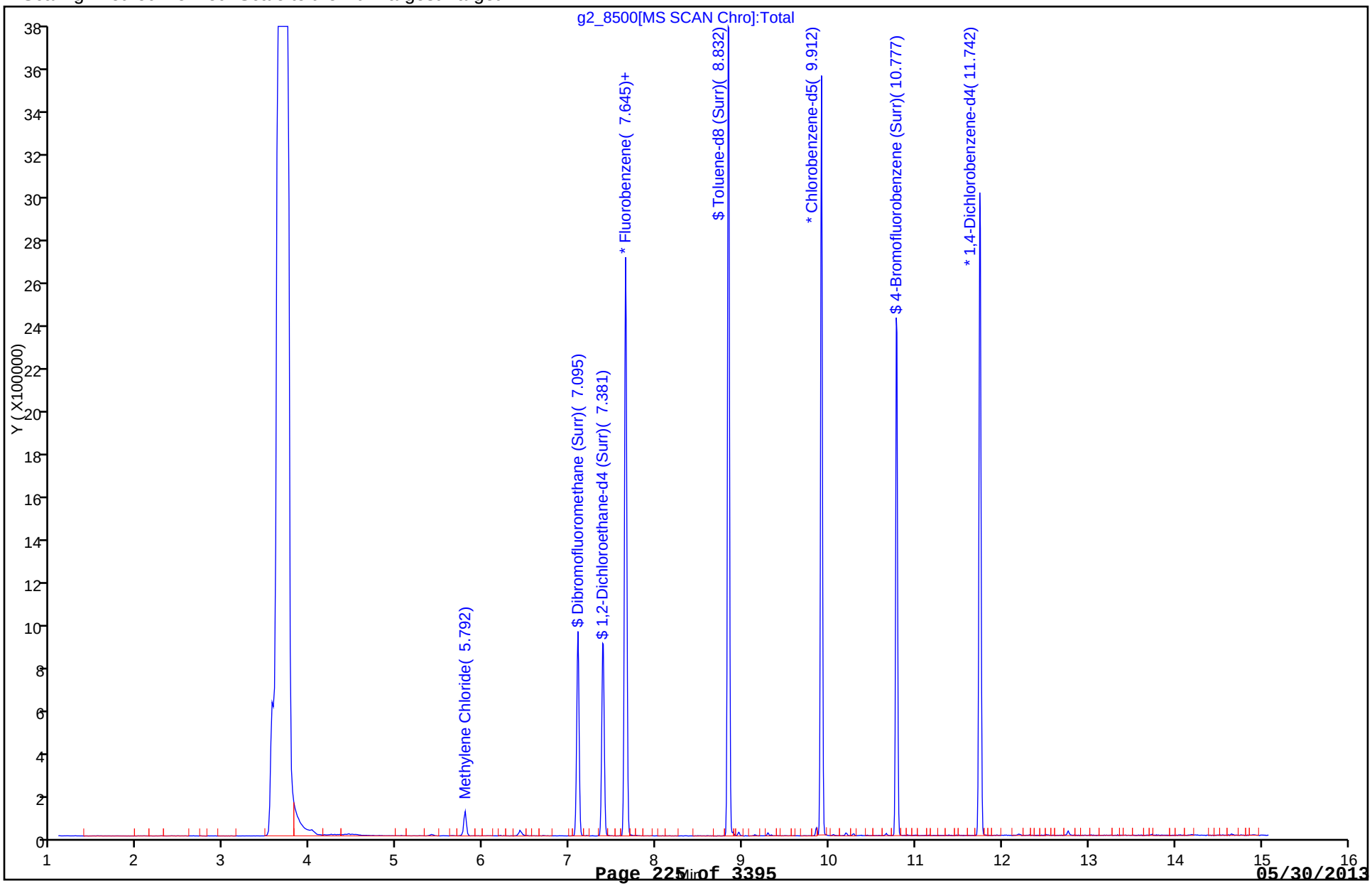
Report Date: 18-May-2013 06:26:40 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8500.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 12:00:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0212AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 14 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

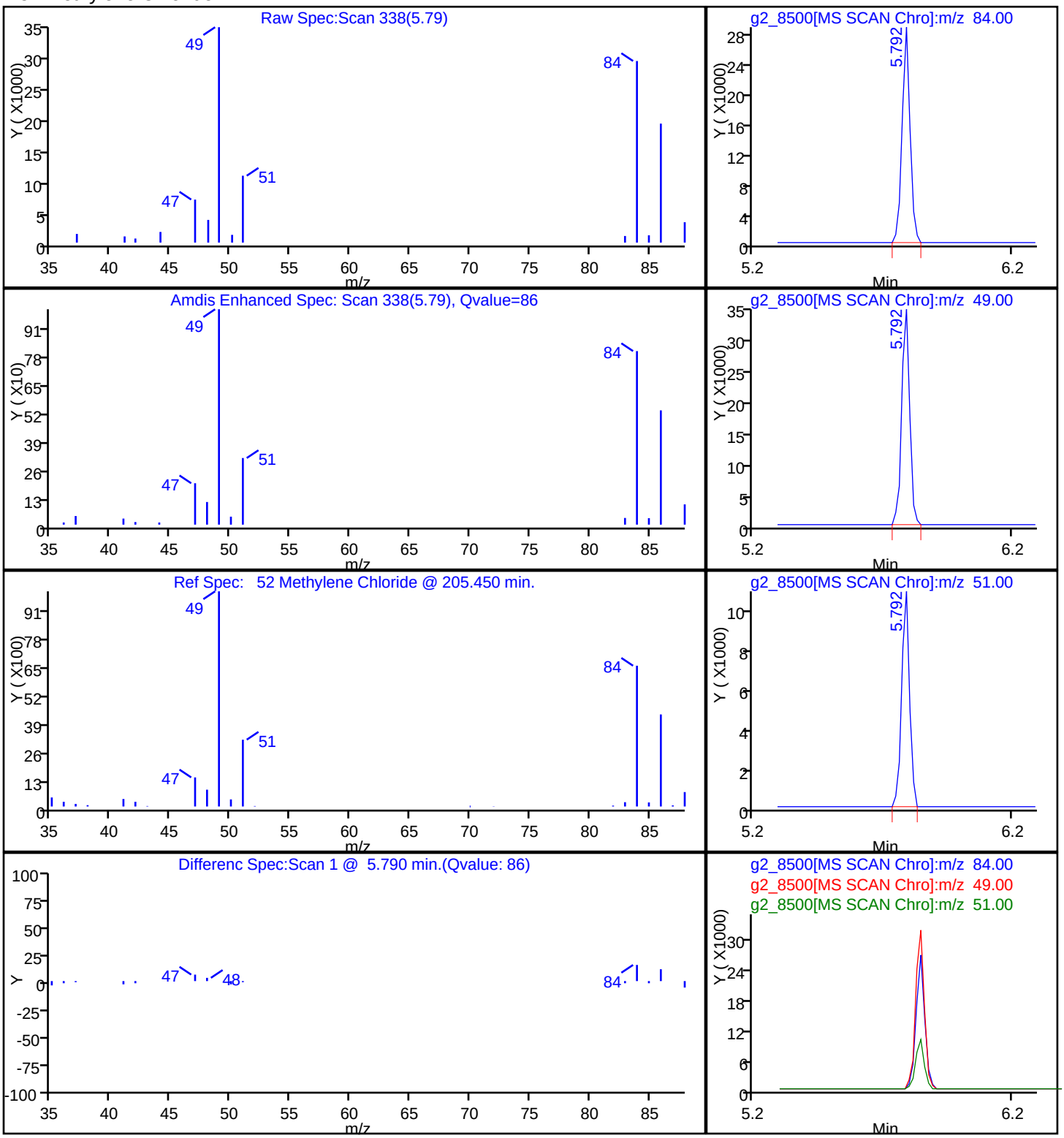


Report Date: 18-May-2013 06:26:40 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8500.D | | |
| Injection Date: | 17-May-2013 12:00:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0212AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 14 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0304AA | Lab Sample ID: 280-42039-7

Matrix: Solid | Lab File ID: g2_8501.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:45

Sample wt/vol: 5.178(g) | Date Analyzed: 05/17/2013 12:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.4 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.3 | 1.1 | 0.55 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.3 | 1.1 | 0.64 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 21 | U | 21 | 21 | 0.47 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.3 | 1.1 | 0.93 |
| 75-34-3 | 1,1-Dichloroethane | 0.84 | U | 5.3 | 0.84 | 0.22 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.3 | 1.1 | 0.57 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.79 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.3 | 1.1 | 0.85 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.77 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.61 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.63 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.47 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.3 | 1.1 | 0.74 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.58 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.60 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.51 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.54 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.82 |
| 123-91-1 | 1,4-Dioxane | 84 | U | 530 | 84 | 59 |
| 544-10-5 | 1-Chlorohexane | 0.84 | U | 5.3 | 0.84 | 0.66 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.3 | 1.1 | 0.46 |
| 78-93-3 | 2-Butanone (MEK) | 6.7 | U | 21 | 6.7 | 1.9 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.3 | 1.1 | 0.54 |
| 591-78-6 | 2-Hexanone | 11 | U | 21 | 11 | 5.2 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.3 | 1.1 | 0.82 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.3 | 1.1 | 0.52 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 21 | 11 | 4.6 |
| 67-64-1 | Acetone | 11 | U | 21 | 11 | 5.7 |
| 71-43-2 | Benzene | 1.1 | U | 5.3 | 1.1 | 0.50 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.3 | 1.1 | 0.52 |
| 75-25-2 | Bromoform | 0.84 | U | 5.3 | 0.84 | 0.24 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.53 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.3 | 1.1 | 0.44 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0304AA | Lab Sample ID: 280-42039-7

Matrix: Solid | Lab File ID: g2_8501.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:45

Sample wt/vol: 5.178(g) | Date Analyzed: 05/17/2013 12:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.4 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.3 | 1.1 | 0.66 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.3 | 1.1 | 0.57 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.3 | 1.1 | 0.32 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.3 | 1.1 | 0.60 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.94 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.31 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.81 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.1 | U | 5.3 | 2.1 | 1.4 |
| 110-82-7 | Cyclohexane | 1.7 | U | 5.3 | 1.7 | 0.42 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.3 | 1.1 | 0.89 |
| 75-27-4 | Dichlorobromomethane | 0.84 | U | 5.3 | 0.84 | 0.23 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.55 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.3 | 1.1 | 0.71 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.3 | 1.1 | 0.55 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.3 | 1.1 | 0.58 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 79-20-9 | Methyl acetate | 4.2 | U | 9.0 | 4.2 | 2.9 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 21 | 1.1 | 0.36 |
| 108-87-2 | Methylcyclohexane | 0.84 | U | 5.3 | 0.84 | 0.44 |
| 75-09-2 | Methylene Chloride | 3.5 | J | 5.3 | 3.4 | 1.7 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.1 | U | 3.4 | 2.1 | 1.1 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.3 | 1.1 | 0.66 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.59 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.3 | 1.1 | 0.61 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.3 | 1.1 | 0.64 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.81 |
| 100-42-5 | Styrene | 1.1 | U | 5.3 | 1.1 | 0.66 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.3 | 1.1 | 0.53 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.3 | 1.1 | 0.62 |
| 108-88-3 | Toluene | 1.1 | U | 5.3 | 1.1 | 0.73 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.3 | 1.1 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.3 | 1.1 | 0.71 |
| 79-01-6 | Trichloroethene | 0.84 | U | 5.3 | 0.84 | 0.24 |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U | 11 | 2.1 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.1 | U | 5.3 | 2.1 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0304AA | Lab Sample ID: 280-42039-7

Matrix: Solid | Lab File ID: g2_8501.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:45

Sample wt/vol: 5.178(g) | Date Analyzed: 05/17/2013 12:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.4 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 109 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 102 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8501.D
Lims ID: 280-42039-B-7-A Client ID: B255SCS0304AA
Inject. Date: 17-May-2013 12:19:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-7-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 16
Lims Batch ID: 174695 Lims Sample ID: 15
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 12:41:22

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2522974 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 85 | 577187 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 95 | 894203 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 62 | 626943 | 59.8 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 769479 | 57.6 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2435611 | 55.9 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 842479 | 53.8 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.001 | 78 | 9102 | 1.99 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 88 | 51803 | 3.28 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

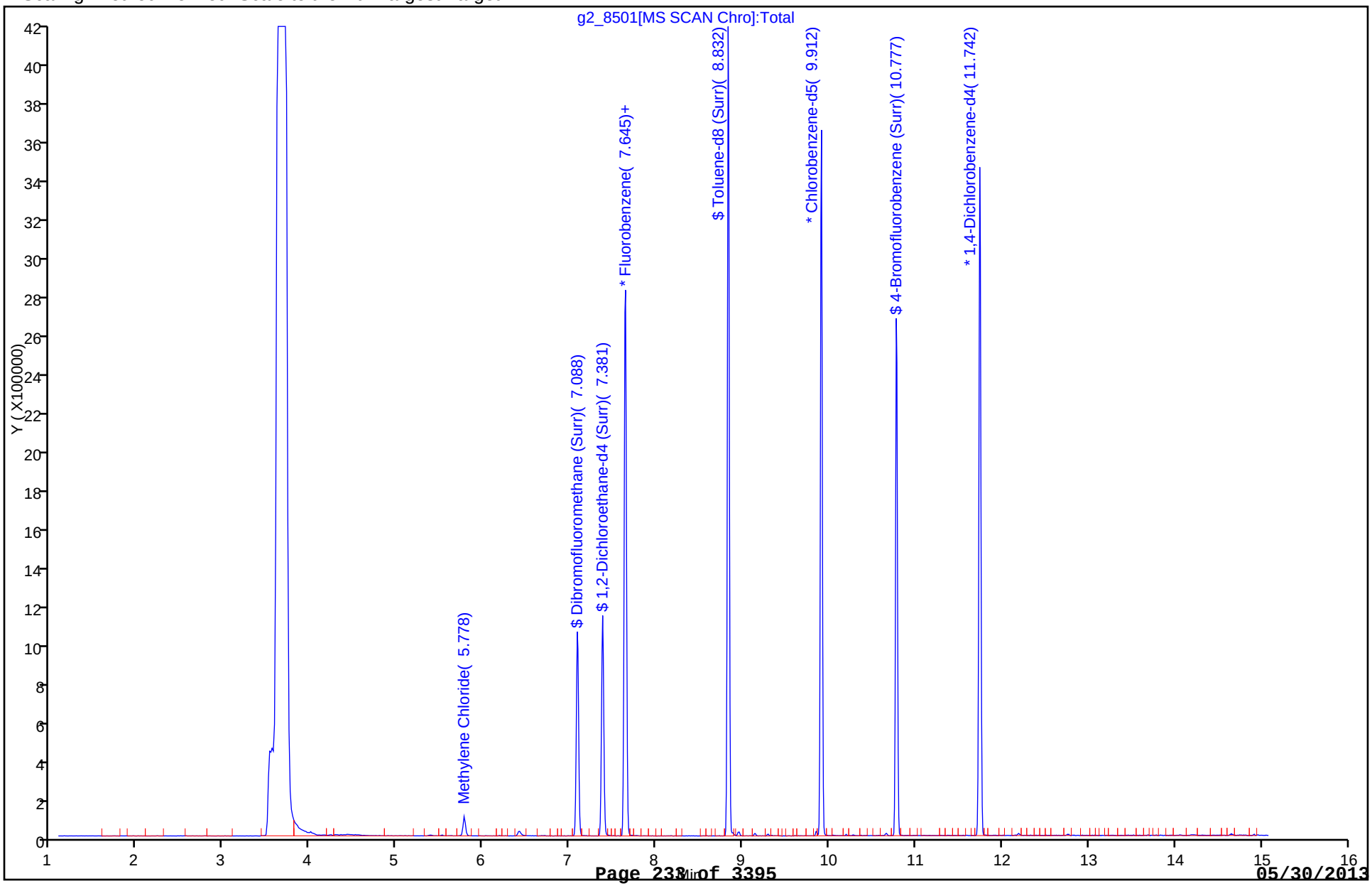
Report Date: 18-May-2013 06:26:40 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8501.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 12:19:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0304AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 15 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



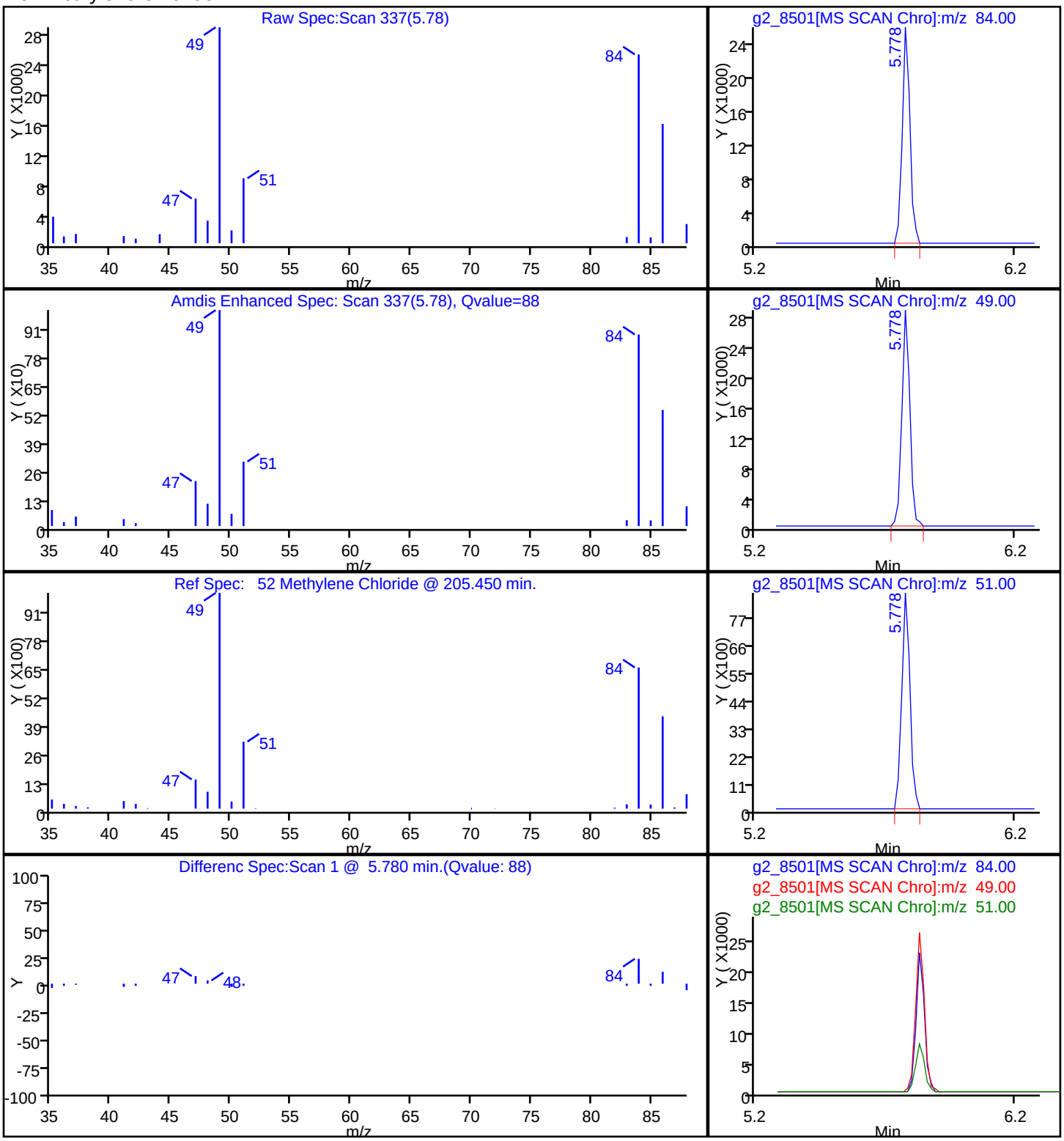
Report Date: 18-May-2013 06:26:40 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8501.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 12:19:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0304AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 15 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0308AA | Lab Sample ID: 280-42039-8

Matrix: Solid | Lab File ID: g2_8502.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:52

Sample wt/vol: 5.097(g) | Date Analyzed: 05/17/2013 12:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 10.7 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.5 | 1.1 | 0.61 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.5 | 1.1 | 0.57 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.5 | 1.1 | 0.67 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 22 | U | 22 | 22 | 0.49 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.5 | 1.1 | 0.97 |
| 75-34-3 | 1,1-Dichloroethane | 0.88 | U | 5.5 | 0.88 | 0.23 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.5 | 1.1 | 0.65 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.5 | 1.1 | 0.59 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.82 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.5 | 1.1 | 0.89 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.80 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.5 | 1.1 | 0.64 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.66 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.49 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.5 | 1.1 | 0.77 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.5 | 1.1 | 0.60 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.5 | 1.1 | 0.63 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.53 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.5 | 1.1 | 0.56 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.86 |
| 123-91-1 | 1,4-Dioxane | 88 | U | 550 | 88 | 62 |
| 544-10-5 | 1-Chlorohexane | 0.88 | U | 5.5 | 0.88 | 0.69 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.5 | 1.1 | 0.48 |
| 78-93-3 | 2-Butanone (MEK) | 7.0 | U | 22 | 7.0 | 2.0 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.5 | 1.1 | 0.56 |
| 591-78-6 | 2-Hexanone | 11 | U | 22 | 11 | 5.4 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.5 | 1.1 | 0.86 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.5 | 1.1 | 0.54 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 22 | 11 | 4.8 |
| 67-64-1 | Acetone | 11 | U | 22 | 11 | 5.9 |
| 71-43-2 | Benzene | 1.1 | U | 5.5 | 1.1 | 0.52 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.5 | 1.1 | 0.54 |
| 75-25-2 | Bromoform | 0.88 | U | 5.5 | 0.88 | 0.25 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.55 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.5 | 1.1 | 0.46 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0308AA | Lab Sample ID: 280-42039-8

Matrix: Solid | Lab File ID: g2_8502.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:52

Sample wt/vol: 5.097(g) | Date Analyzed: 05/17/2013 12:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 10.7 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.5 | 1.1 | 0.69 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.5 | 1.1 | 0.59 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.5 | 1.1 | 0.33 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.5 | 1.1 | 0.63 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.98 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.32 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.85 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.5 | 1.1 | 0.61 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.2 | U | 5.5 | 2.2 | 1.4 |
| 110-82-7 | Cyclohexane | 1.8 | U | 5.5 | 1.8 | 0.44 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.5 | 1.1 | 0.92 |
| 75-27-4 | Dichlorobromomethane | 0.88 | U | 5.5 | 0.88 | 0.24 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.57 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.5 | 1.1 | 0.74 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.5 | 1.1 | 0.57 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.5 | 1.1 | 0.60 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.5 | 1.1 | 0.65 |
| 79-20-9 | Methyl acetate | 4.4 | U | 9.3 | 4.4 | 3.0 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 22 | 1.1 | 0.37 |
| 108-87-2 | Methylcyclohexane | 0.88 | U | 5.5 | 0.88 | 0.46 |
| 75-09-2 | Methylene Chloride | 4.1 | J | 5.5 | 3.5 | 1.8 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.2 | U | 3.5 | 2.2 | 1.1 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.5 | 1.1 | 0.69 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.5 | 1.1 | 0.61 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.5 | 1.1 | 0.64 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.5 | 1.1 | 0.67 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.5 | 1.1 | 0.85 |
| 100-42-5 | Styrene | 1.1 | U | 5.5 | 1.1 | 0.69 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.5 | 1.1 | 0.55 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.5 | 1.1 | 0.65 |
| 108-88-3 | Toluene | 1.1 | U | 5.5 | 1.1 | 0.76 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.5 | 1.1 | 0.43 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.5 | 1.1 | 0.74 |
| 79-01-6 | Trichloroethene | 0.88 | U | 5.5 | 0.88 | 0.25 |
| 75-69-4 | Trichlorofluoromethane | 2.2 | U | 11 | 2.2 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.2 | U | 5.5 | 2.2 | 1.5 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0308AA Lab Sample ID: 280-42039-8

Matrix: Solid Lab File ID: g2_8502.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 15:52

Sample wt/vol: 5.097(g) Date Analyzed: 05/17/2013 12:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 10.7 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 106 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 103 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8502.D
Lims ID: 280-42039-B-8-A Client ID: B255SCS0308AA
Inject. Date: 17-May-2013 12:39:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-8-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 17
Lims Batch ID: 174695 Lims Sample ID: 16
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 13:44:30

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2525257 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 84 | 563811 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 95 | 828403 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 57 | 613433 | 58.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 710432 | 53.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2415309 | 56.7 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 783503 | 54.0 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 75 | 12820 | 2.79 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 86 | 58877 | 3.73 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | 19 |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | 19 |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | 19 |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

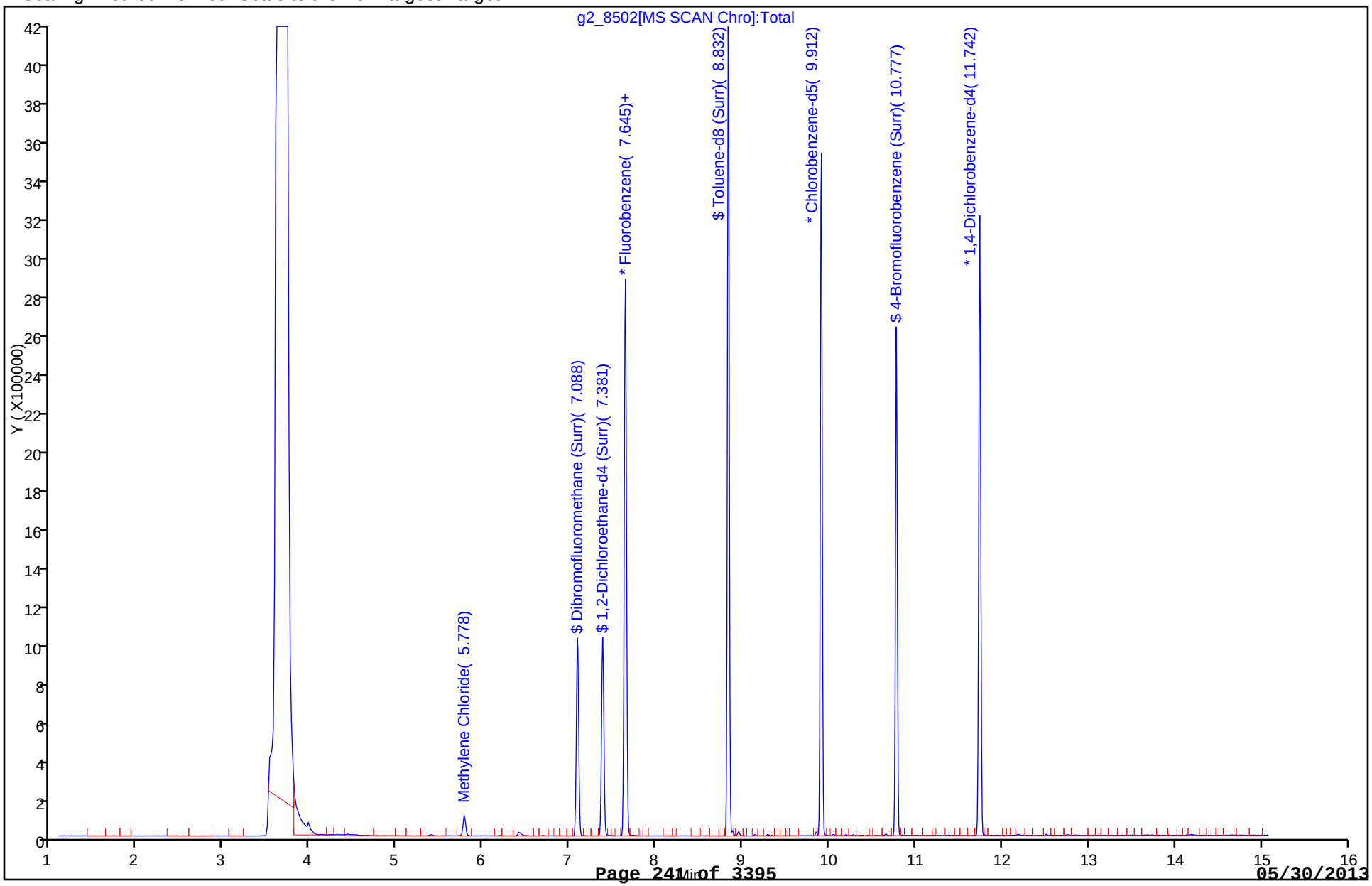
Report Date: 18-May-2013 06:26:41 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8502.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 12:39:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0308AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 16 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



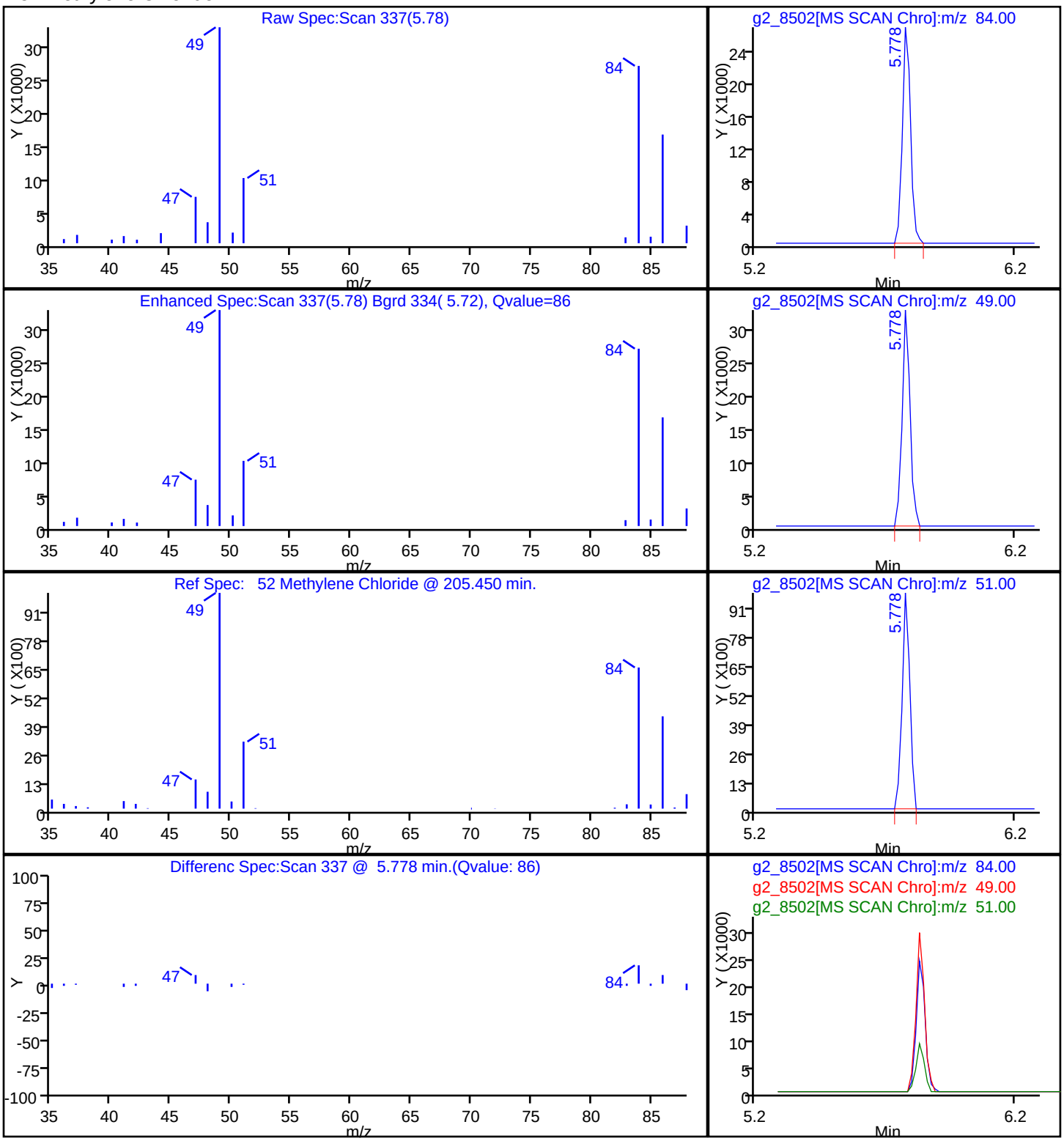
Report Date: 18-May-2013 06:26:41 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8502.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 12:39:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0308AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 16 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0312AA | Lab Sample ID: 280-42039-9

Matrix: Solid | Lab File ID: g2_8503.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:59

Sample wt/vol: 5.099(g) | Date Analyzed: 05/17/2013 12:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.8 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.4 | 1.1 | 0.56 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.4 | 1.1 | 0.66 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 21 | U | 21 | 21 | 0.48 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.4 | 1.1 | 0.95 |
| 75-34-3 | 1,1-Dichloroethane | 0.86 | U | 5.4 | 0.86 | 0.23 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.4 | 1.1 | 0.58 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.81 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.4 | 1.1 | 0.87 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.78 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.62 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.64 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.48 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.4 | 1.1 | 0.75 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.59 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.61 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.52 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.55 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.84 |
| 123-91-1 | 1,4-Dioxane | 86 | U | 540 | 86 | 60 |
| 544-10-5 | 1-Chlorohexane | 0.86 | U | 5.4 | 0.86 | 0.68 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.47 |
| 78-93-3 | 2-Butanone (MEK) | 6.9 | U | 21 | 6.9 | 2.0 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.4 | 1.1 | 0.55 |
| 591-78-6 | 2-Hexanone | 11 | U | 21 | 11 | 5.3 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.4 | 1.1 | 0.84 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.4 | 1.1 | 0.53 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 21 | 11 | 4.7 |
| 67-64-1 | Acetone | 11 | U | 21 | 11 | 5.8 |
| 71-43-2 | Benzene | 1.1 | U | 5.4 | 1.1 | 0.51 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.4 | 1.1 | 0.53 |
| 75-25-2 | Bromoform | 0.86 | U | 5.4 | 0.86 | 0.25 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.54 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.4 | 1.1 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0312AA | Lab Sample ID: 280-42039-9

Matrix: Solid | Lab File ID: g2_8503.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 15:59

Sample wt/vol: 5.099(g) | Date Analyzed: 05/17/2013 12:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.8 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.58 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.4 | 1.1 | 0.32 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.4 | 1.1 | 0.61 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.96 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.31 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.83 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.1 | U | 5.4 | 2.1 | 1.4 |
| 110-82-7 | Cyclohexane | 1.7 | U | 5.4 | 1.7 | 0.43 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.4 | 1.1 | 0.90 |
| 75-27-4 | Dichlorobromomethane | 0.86 | U | 5.4 | 0.86 | 0.24 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.56 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.72 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.4 | 1.1 | 0.56 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.4 | 1.1 | 0.59 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 79-20-9 | Methyl acetate | 4.3 | U | 9.1 | 4.3 | 3.0 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 21 | 1.1 | 0.37 |
| 108-87-2 | Methylcyclohexane | 0.86 | U | 5.4 | 0.86 | 0.45 |
| 75-09-2 | Methylene Chloride | 4.1 | J | 5.4 | 3.4 | 1.7 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.1 | U | 3.4 | 2.1 | 1.1 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.4 | 1.1 | 0.62 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.4 | 1.1 | 0.66 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.83 |
| 100-42-5 | Styrene | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.54 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 108-88-3 | Toluene | 1.1 | U | 5.4 | 1.1 | 0.74 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.42 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.4 | 1.1 | 0.72 |
| 79-01-6 | Trichloroethene | 0.86 | U | 5.4 | 0.86 | 0.25 |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U | 11 | 2.1 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.1 | U | 5.4 | 2.1 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0312AA Lab Sample ID: 280-42039-9

Matrix: Solid Lab File ID: g2_8503.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 15:59

Sample wt/vol: 5.099(g) Date Analyzed: 05/17/2013 12:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 8.8 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 108 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8503.D
Lims ID: 280-42039-B-9-A Client ID: B255SCS0312AA
Inject. Date: 17-May-2013 12:58:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-9-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 18
Lims Batch ID: 174695 Lims Sample ID: 17
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 13:44:41

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2355254 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 86 | 545150 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 96 | 811912 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 58 | 581405 | 59.4 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 99 | 695364 | 55.8 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2274897 | 55.2 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 764744 | 53.8 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 90 | 15636 | 3.65 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 88 | 55773 | 3.79 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | 19 |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

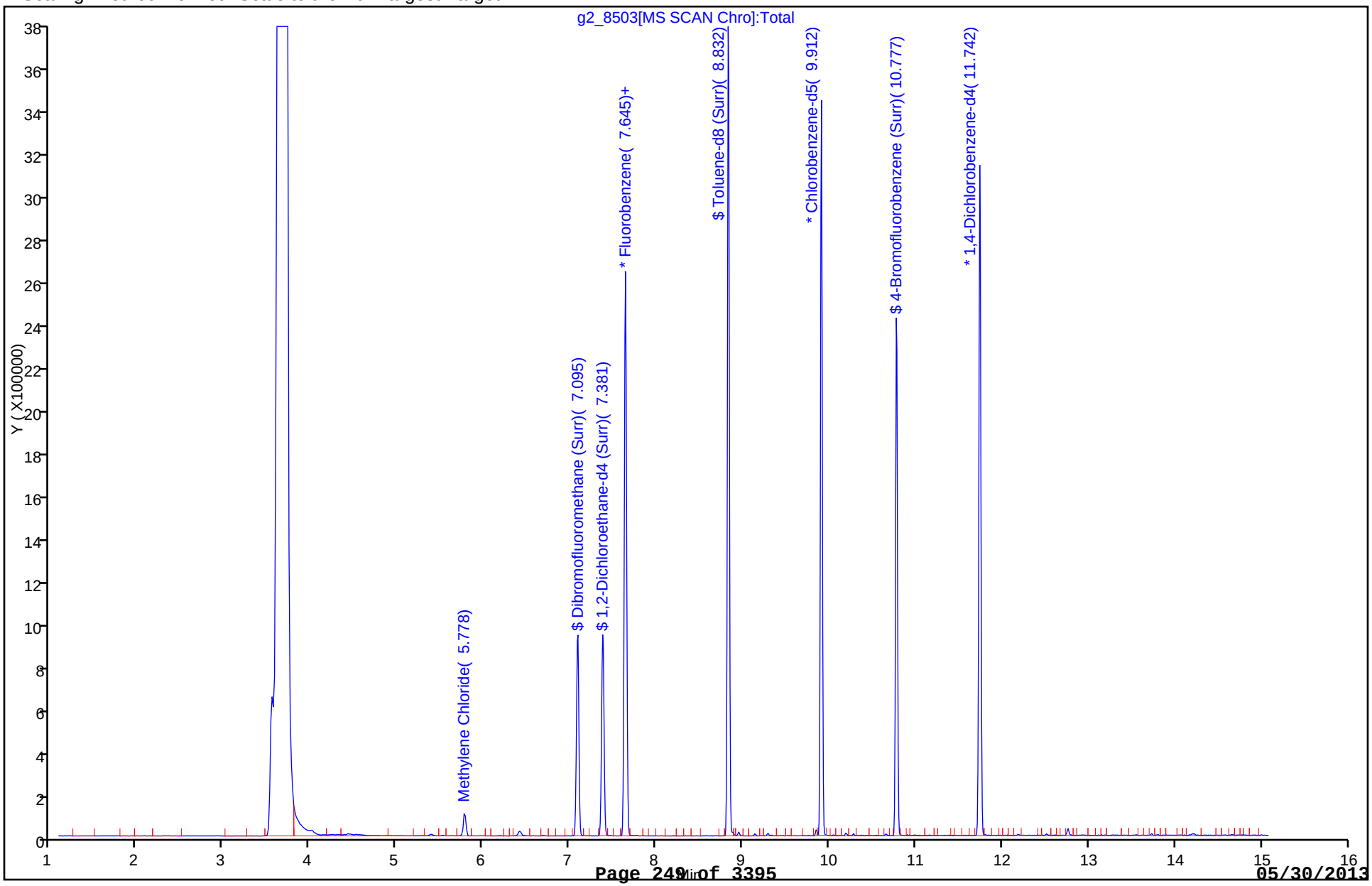
Report Date: 18-May-2013 06:26:42 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8503.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 12:58:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0312AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 17 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



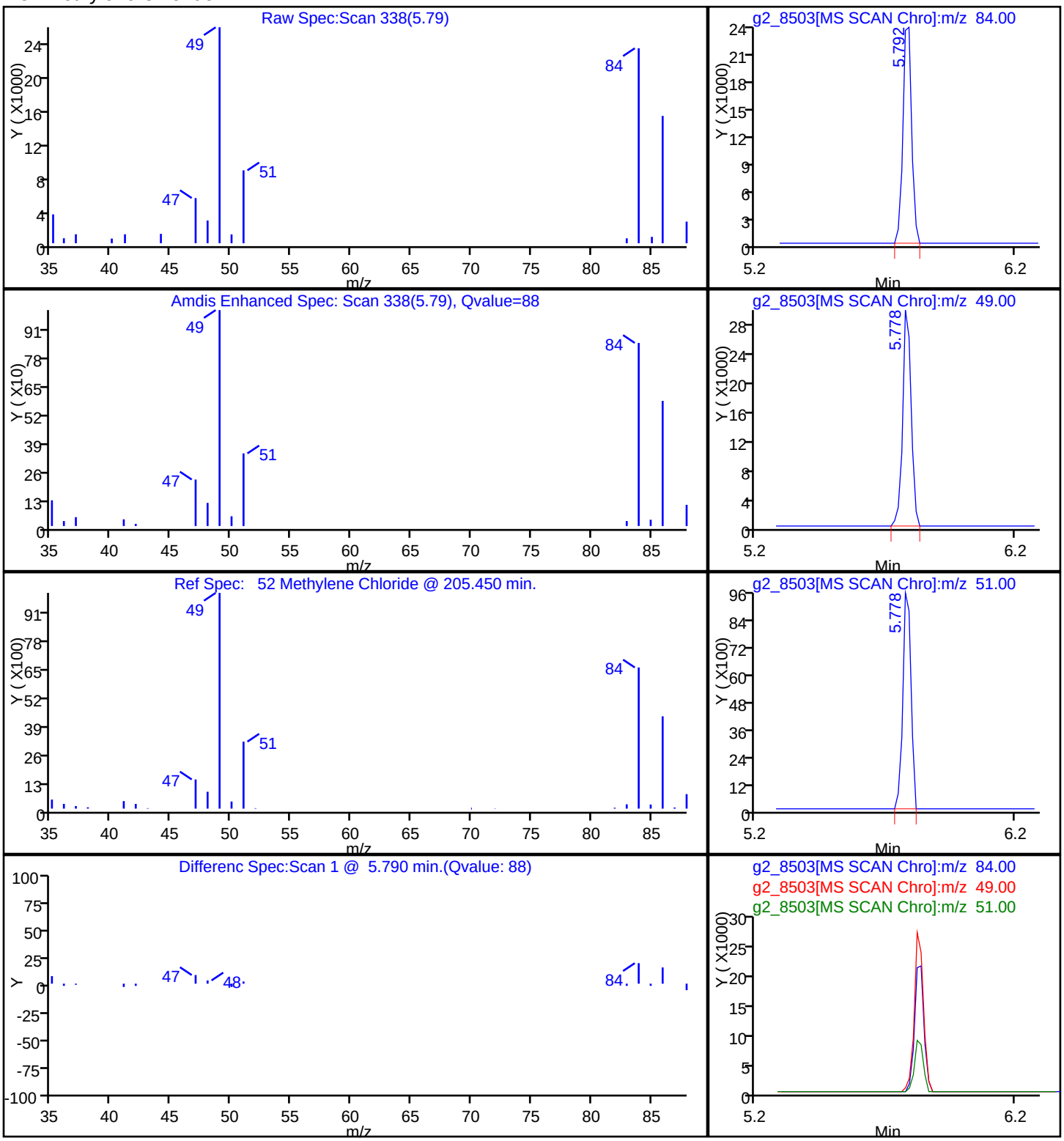
Report Date: 18-May-2013 06:26:42 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8503.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 12:58:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0312AA | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 17 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0104AC | Lab Sample ID: 280-42039-10

Matrix: Solid | Lab File ID: g2_8504.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 14:42

Sample wt/vol: 5.116(g) | Date Analyzed: 05/17/2013 13:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.0 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 5.4 | 1.1 | 0.56 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 5.4 | 1.1 | 0.65 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 21 | U | 21 | 21 | 0.48 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 5.4 | 1.1 | 0.94 |
| 75-34-3 | 1,1-Dichloroethane | 0.86 | U | 5.4 | 0.86 | 0.23 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 5.4 | 1.1 | 0.58 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.81 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.1 | U | 5.4 | 1.1 | 0.87 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.78 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.62 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.1 | U | 11 | 1.1 | 0.64 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.48 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 5.4 | 1.1 | 0.75 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.59 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.61 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.52 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.55 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.84 |
| 123-91-1 | 1,4-Dioxane | 86 | U | 540 | 86 | 60 |
| 544-10-5 | 1-Chlorohexane | 0.86 | U | 5.4 | 0.86 | 0.68 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 5.4 | 1.1 | 0.47 |
| 78-93-3 | 2-Butanone (MEK) | 6.9 | U | 21 | 6.9 | 2.0 |
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 5.4 | 1.1 | 0.55 |
| 591-78-6 | 2-Hexanone | 11 | U | 21 | 11 | 5.3 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 5.4 | 1.1 | 0.84 |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | U | 5.4 | 1.1 | 0.53 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 11 | U | 21 | 11 | 4.7 |
| 67-64-1 | Acetone | 11 | U | 21 | 11 | 5.8 |
| 71-43-2 | Benzene | 1.1 | U | 5.4 | 1.1 | 0.50 |
| 108-86-1 | Bromobenzene | 1.1 | U | 5.4 | 1.1 | 0.53 |
| 75-25-2 | Bromoform | 0.86 | U | 5.4 | 0.86 | 0.25 |
| 74-83-9 | Bromomethane | 1.1 | U | 11 | 1.1 | 0.54 |
| 75-15-0 | Carbon disulfide | 1.1 | U | 5.4 | 1.1 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0104AC | Lab Sample ID: 280-42039-10

Matrix: Solid | Lab File ID: g2_8504.D

Analysis Method: 8260B/DoD | Date Collected: 05/06/2013 14:42

Sample wt/vol: 5.116(g) | Date Analyzed: 05/17/2013 13:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.0 | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 5.4 | 1.1 | 0.58 |
| 74-97-5 | Chlorobromomethane | 1.1 | U | 5.4 | 1.1 | 0.32 |
| 124-48-1 | Chlorodibromomethane | 1.1 | U | 5.4 | 1.1 | 0.61 |
| 75-00-3 | Chloroethane | 1.1 | U | 11 | 1.1 | 0.96 |
| 67-66-3 | Chloroform | 1.1 | U | 11 | 1.1 | 0.31 |
| 74-87-3 | Chloromethane | 1.1 | U | 11 | 1.1 | 0.83 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.1 | U | 5.4 | 2.1 | 1.4 |
| 110-82-7 | Cyclohexane | 1.7 | U | 5.4 | 1.7 | 0.43 |
| 74-95-3 | Dibromomethane | 1.1 | U | 5.4 | 1.1 | 0.90 |
| 75-27-4 | Dichlorobromomethane | 0.86 | U | 5.4 | 0.86 | 0.24 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 11 | 1.1 | 0.56 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 5.4 | 1.1 | 0.72 |
| 106-93-4 | Ethylene Dibromide | 1.1 | U | 5.4 | 1.1 | 0.56 |
| 87-68-3 | Hexachlorobutadiene | 1.1 | U | 5.4 | 1.1 | 0.59 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 79-20-9 | Methyl acetate | 4.3 | U | 9.1 | 4.3 | 3.0 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 21 | 1.1 | 0.37 |
| 108-87-2 | Methylcyclohexane | 0.86 | U | 5.4 | 0.86 | 0.45 |
| 75-09-2 | Methylene Chloride | 3.6 | J | 5.4 | 3.4 | 1.7 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.1 | U | 3.4 | 2.1 | 1.1 |
| 91-20-3 | Naphthalene | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.60 |
| 103-65-1 | N-Propylbenzene | 1.1 | U | 5.4 | 1.1 | 0.62 |
| 95-47-6 | o-Xylene | 1.1 | U | 5.4 | 1.1 | 0.65 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.83 |
| 100-42-5 | Styrene | 1.1 | U | 5.4 | 1.1 | 0.68 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 5.4 | 1.1 | 0.54 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 5.4 | 1.1 | 0.63 |
| 108-88-3 | Toluene | 1.1 | U | 5.4 | 1.1 | 0.74 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 5.4 | 1.1 | 0.42 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 5.4 | 1.1 | 0.72 |
| 79-01-6 | Trichloroethene | 0.86 | U | 5.4 | 0.86 | 0.25 |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U | 11 | 2.1 | 1.1 |
| 75-01-4 | Vinyl chloride | 2.1 | U | 5.4 | 2.1 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: B255SCS0104AC Lab Sample ID: 280-42039-10

Matrix: Solid Lab File ID: g2_8504.D

Analysis Method: 8260B/DoD Date Collected: 05/06/2013 14:42

Sample wt/vol: 5.116(g) Date Analyzed: 05/17/2013 13:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: 9.0 Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 107 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 103 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8504.D
Lims ID: 280-42039-B-10-A Client ID: B255SCS0104AC
Inject. Date: 17-May-2013 13:18:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-b-10-a
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 19
Lims Batch ID: 174695 Lims Sample ID: 18
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 13:49:34

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.646 | 7.638 | 0.008 | 99 | 2399456 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 87 | 543909 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.750 | 11.743 | 0.007 | 95 | 791424 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 58 | 588256 | 59.0 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 692801 | 54.6 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 94 | 2330218 | 56.7 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.784 | 10.777 | 0.007 | 90 | 761111 | 55.0 | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.015 | 78 | 9460 | 2.17 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 50 Carbon disulfide | 76 | | 5.708 | | | | | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 88 | 49848 | 3.32 | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | 19 |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |

QC Flag Legend

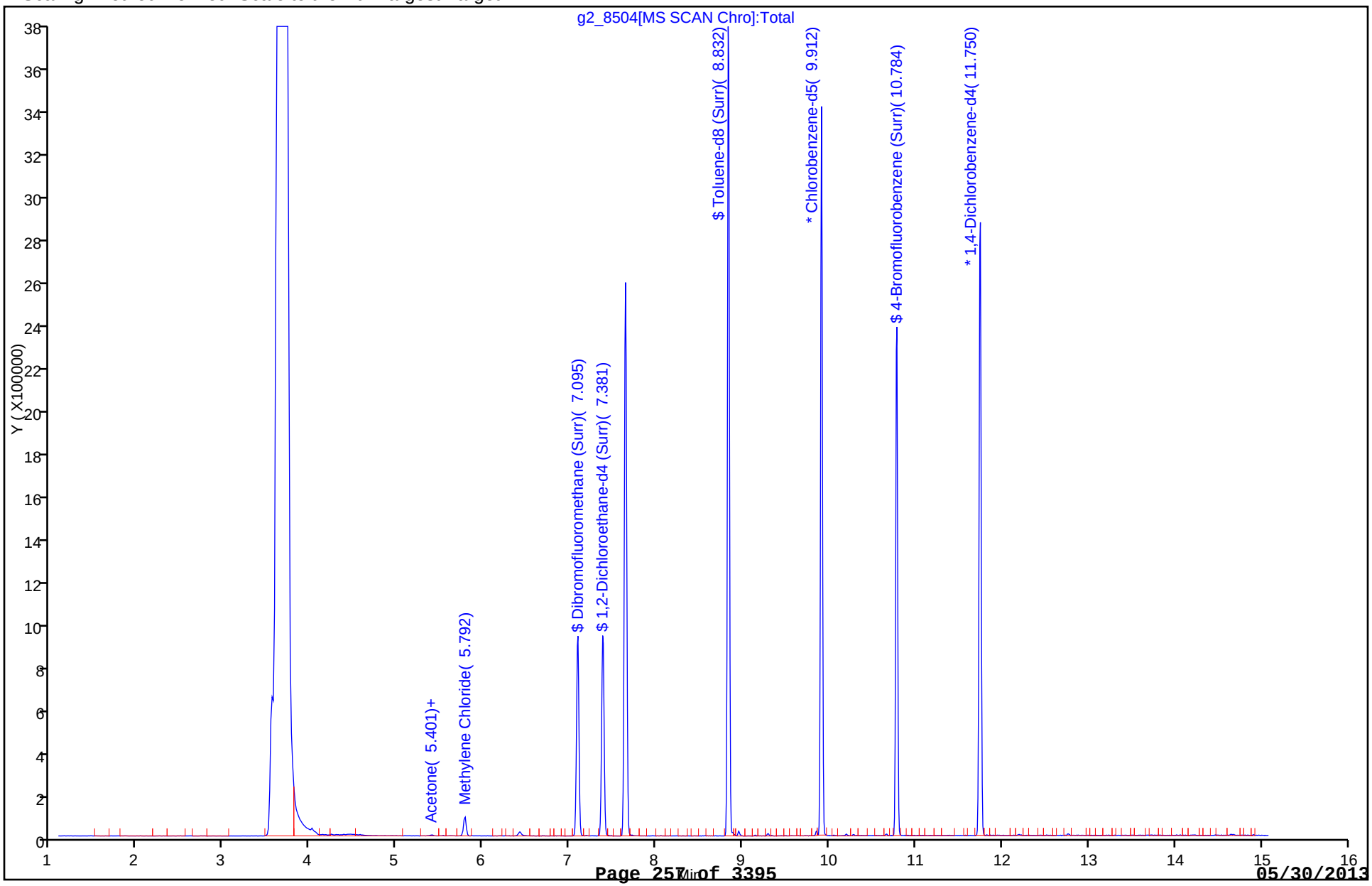
Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

Report Date: 18-May-2013 06:26:42 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8504.D | | |
| Injection Date: | 17-May-2013 13:18:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0104AC | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 18 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



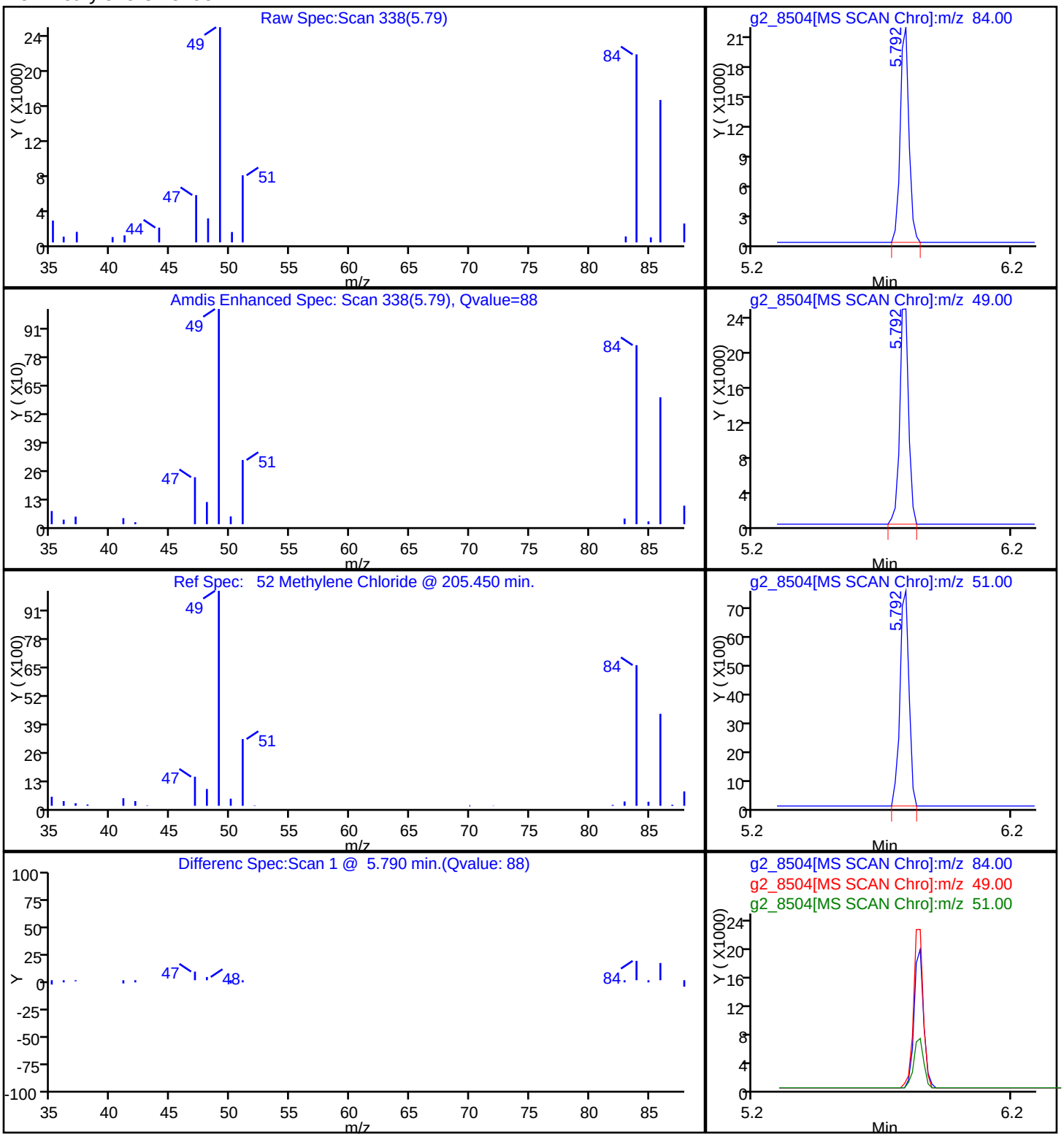
Report Date: 18-May-2013 06:26:42 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8504.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 13:18:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | B255SCS0104AC | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 18 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AE | Lab Sample ID: 280-42039-11

Matrix: Water | Lab File ID: Z4205.D

Analysis Method: 8260C | Date Collected: 05/06/2013 16:30

Sample wt/vol: 20(mL) | Date Analyzed: 05/11/2013 06:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 173812 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.80 | U | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.80 | U | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.6 | U | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.40 | U | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 123-91-1 | 1,4-Dioxane | 80 | U | 220 | 80 | 71 |
| 544-10-5 | 1-Chlorohexane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 3.2 | U | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 3.2 | U | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 6.4 | U | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 0.40 | U | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 0.80 | U | 2.0 | 0.80 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AE | Lab Sample ID: 280-42039-11

Matrix: Water | Lab File ID: Z4205.D

Analysis Method: 8260C | Date Collected: 05/06/2013 16:30

Sample wt/vol: 20(mL) | Date Analyzed: 05/11/2013 06:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 173812 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 0.40 | U | 2.0 | 0.40 | 0.19 |
| 108-90-7 | Chlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 1.6 | U | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 0.80 | U | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 110-82-7 | Cyclohexane | 0.40 | U | 2.0 | 0.40 | 0.28 |
| 74-95-3 | Dibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 0.80 | U | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 0.20 | U | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 0.40 | U | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-20-9 | Methyl acetate | 2.0 | U | 5.0 | 2.0 | 1.6 |
| 1634-04-4 | Methyl tert-butyl ether | 0.40 | U | 5.0 | 0.40 | 0.25 |
| 108-87-2 | Methylcyclohexane | 0.40 | U | 2.0 | 0.40 | 0.36 |
| 75-09-2 | Methylene Chloride | 0.40 | U | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 0.80 | U | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 0.80 | U | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 0.80 | U | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 0.40 | U | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AE Lab Sample ID: 280-42039-11

Matrix: Water Lab File ID: Z4205.D

Analysis Method: 8260C Date Collected: 05/06/2013 16:30

Sample wt/vol: 20(mL) Date Analyzed: 05/11/2013 06:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 173812 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 81 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 85 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 85 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4205.D
Lims ID: 280-42039-D-11 Client ID: 050613AE
Inject. Date: 11-May-2013 06:56:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-d-11 pH<2
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 32
Lims Batch ID: 173812 Lims Sample ID: 35
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m
Last Update: 13-May-2013 16:31:41 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 13-May-2013 16:31:13

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.827 | 5.844 | -0.017 | 98 | 1390297 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.351 | 10.369 | -0.018 | 89 | 302153 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.423 | 14.440 | -0.017 | 97 | 535869 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.009 | 5.027 | -0.018 | 74 | 560308 | 7.69 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.444 | 5.462 | -0.018 | 82 | 239940 | 7.29 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.037 | 8.054 | -0.017 | 93 | 1149325 | 7.90 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.387 | 12.404 | -0.017 | 86 | 638638 | 7.63 | |
| 24 Dichlorodifluoromethane | 85 | | 1.755 | | | | | |
| 25 Chloromethane | 50 | | 1.842 | | | | | |
| 28 Vinyl chloride | 62 | | 1.946 | | | | | |
| 30 Bromomethane | 94 | | 2.155 | | | | | 19 |
| 31 Chloroethane | 64 | | 2.190 | | | | | |
| 33 Trichlorofluoromethane | 101 | | 2.399 | | | | | |
| 43 1,1-Dichloroethene | 96 | | 2.729 | | | | | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 2.747 | | | | | |
| 42 Acetone | 43 | 2.782 | 2.799 | -0.017 | 72 | 6128 | 1.81 | |
| 46 Carbon disulfide | 76 | | 2.921 | | | | | |
| 49 Methyl acetate | 43 | | 3.040 | | | | | |
| 50 Methylene Chloride | 84 | | 3.164 | | | | | |
| 53 trans-1,2-Dichloroethene | 96 | | 3.373 | | | | | |
| 54 Methyl tert-butyl ether | 73 | | 3.374 | | | | | |
| 56 1,1-Dichloroethane | 63 | | 3.825 | | | | | |
| 63 2,2-Dichloropropane | 77 | | 4.452 | | | | | 19 |
| 62 cis-1,2-Dichloroethene | 96 | | 4.469 | | | | | |
| 61 2-Butanone (MEK) | 43 | | 4.487 | | | | | 19 |
| 68 Chlorobromomethane | 128 | | 4.748 | | | | | |
| 69 Chloroform | 83 | | 4.817 | | | | | |
| 72 Cyclohexane | 56 | | 5.009 | | | | | |
| 71 1,1,1-Trichloroethane | 97 | | 5.026 | | | | | |
| 74 Carbon tetrachloride | 117 | | 5.183 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 73 1,1-Dichloropropene | 75 | | 5.200 | | | | | |
| 77 Benzene | 78 | | 5.461 | | | | | |
| 76 1,2-Dichloroethane | 62 | | 5.566 | | | | | |
| 80 Trichloroethene | 95 | | 6.314 | | | | | |
| 84 Methylcyclohexane | 55 | | 6.488 | | | | | |
| 83 1,2-Dichloropropane | 63 | | 6.679 | | | | | |
| 85 Dibromomethane | 93 | | 6.836 | | | | | |
| 87 1,4-Dioxane | 88 | | 6.871 | | | | | |
| 88 Dichlorobromomethane | 83 | | 7.045 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 7.723 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 7.984 | | | | | |
| 93 Toluene | 91 | | 8.141 | | | | | |
| 94 trans-1,3-Dichloropropene | 75 | | 8.611 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 8.889 | | | | | |
| 97 Tetrachloroethene | 164 | | 8.941 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.150 | | | | | |
| 99 2-Hexanone | 43 | | 9.289 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.446 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.637 | | | | | |
| 104 1-Chlorohexane | 91 | | 10.403 | | | | | |
| 103 Chlorobenzene | 112 | | 10.420 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 10.577 | | | | | |
| 106 Ethylbenzene | 106 | | 10.577 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.786 | | | | | |
| 108 o-Xylene | 106 | | 11.464 | | | | | |
| 109 Styrene | 104 | | 11.499 | | | | | |
| 110 Bromoform | 173 | | 11.812 | | | | | |
| 111 Isopropylbenzene | 105 | | 12.091 | | | | | |
| 114 Bromobenzene | 156 | | 12.613 | | | | | |
| 115 1,1,2,2-Tetrachloroethane | 83 | | 12.752 | | | | | |
| 118 N-Propylbenzene | 120 | | 12.804 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 12.822 | | | | | |
| 119 2-Chlorotoluene | 126 | | 12.961 | | | | | |
| 121 1,3,5-Trimethylbenzene | 105 | | 13.152 | | | | | |
| 120 4-Chlorotoluene | 126 | | 13.187 | | | | | |
| 122 tert-Butylbenzene | 119 | | 13.692 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 13.813 | | | | | |
| 124 sec-Butylbenzene | 134 | | 14.092 | | | | | |
| 125 1,3-Dichlorobenzene | 146 | | 14.301 | | | | | |
| 126 4-Isopropyltoluene | 119 | | 14.370 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 14.475 | | | | | |
| 130 n-Butylbenzene | 91 | | 15.101 | | | | | |
| 129 1,2-Dichlorobenzene | 146 | | 15.136 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 16.441 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 17.363 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 17.502 | | | | | |
| 134 Naphthalene | 128 | | 17.607 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 17.833 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

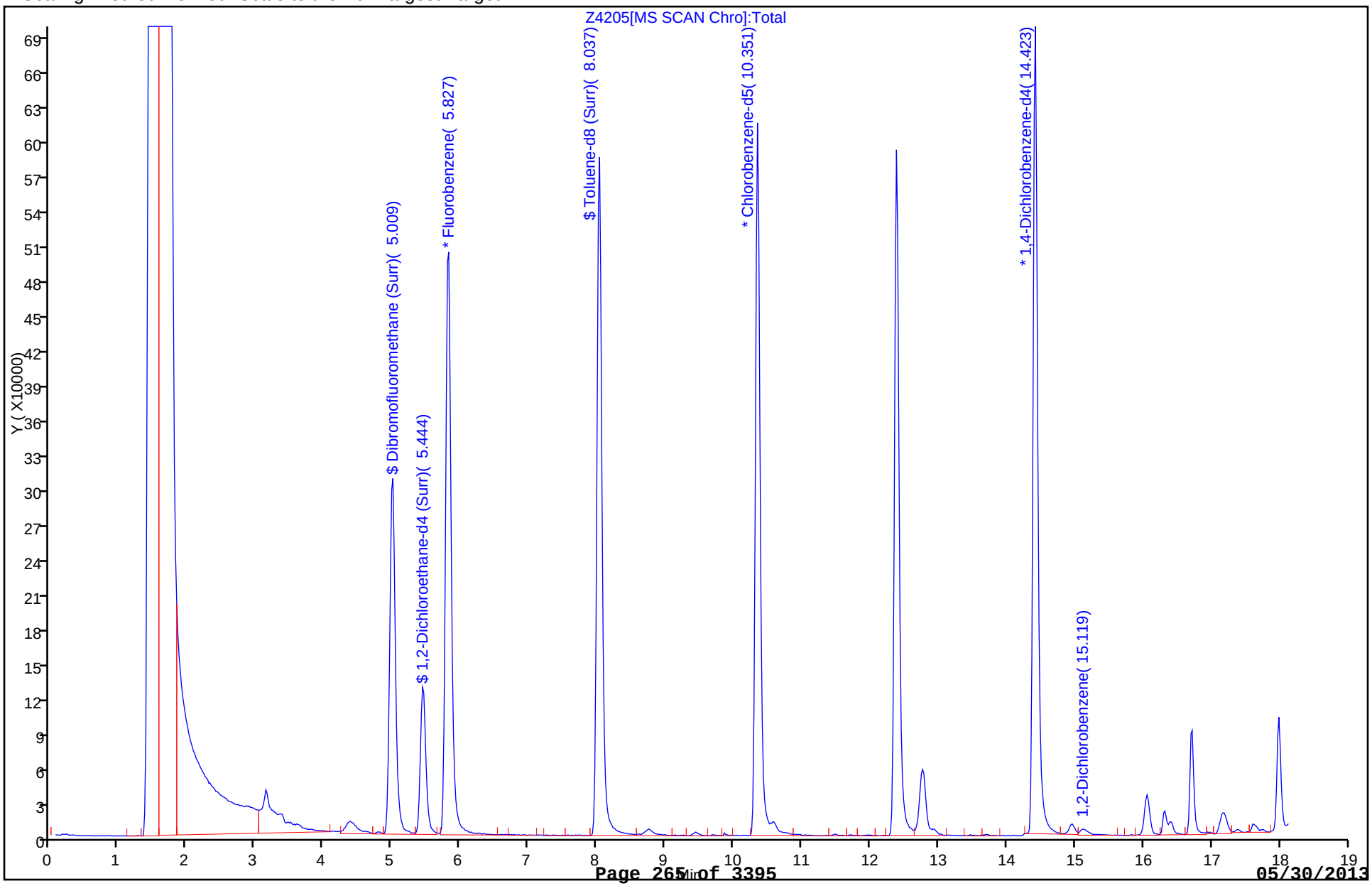
Report Date: 13-May-2013 16:34:29 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4205.D

| | | | |
|---|---|---|---|
| Injection Date: | 11-May-2013 06:56:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | 050613AE | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 35 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AF | Lab Sample ID: 280-42039-12

Matrix: Water | Lab File ID: Z4289.D

Analysis Method: 8260C | Date Collected: 05/06/2013 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 05/14/2013 01:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174063 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.80 | U | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.80 | U | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.6 | U | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.40 | U | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 123-91-1 | 1,4-Dioxane | 80 | U | 220 | 80 | 71 |
| 544-10-5 | 1-Chlorohexane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 3.2 | U | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 3.2 | U | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 6.4 | U | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 0.40 | U | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 0.80 | U | 2.0 | 0.80 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AF | Lab Sample ID: 280-42039-12

Matrix: Water | Lab File ID: Z4289.D

Analysis Method: 8260C | Date Collected: 05/06/2013 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 05/14/2013 01:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174063 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 0.40 | U | 2.0 | 0.40 | 0.19 |
| 108-90-7 | Chlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 1.6 | U | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 0.80 | U | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 110-82-7 | Cyclohexane | 0.40 | U | 2.0 | 0.40 | 0.28 |
| 74-95-3 | Dibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 0.80 | U | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 0.20 | U | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 0.40 | U | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-20-9 | Methyl acetate | 2.0 | U | 5.0 | 2.0 | 1.6 |
| 1634-04-4 | Methyl tert-butyl ether | 0.40 | U | 5.0 | 0.40 | 0.25 |
| 108-87-2 | Methylcyclohexane | 0.40 | U | 2.0 | 0.40 | 0.36 |
| 75-09-2 | Methylene Chloride | 0.40 | U | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 0.80 | U | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 0.80 | U | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 0.80 | U | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 0.40 | U | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AF Lab Sample ID: 280-42039-12

Matrix: Water Lab File ID: Z4289.D

Analysis Method: 8260C Date Collected: 05/06/2013 15:30

Sample wt/vol: 20(mL) Date Analyzed: 05/14/2013 01:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 174063 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 95 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4289.D
Lims ID: 280-42039-C-12 Client ID: 050613AF
Inject. Date: 14-May-2013 01:11:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-c-12 pH<2
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 10
Lims Batch ID: 174063 Lims Sample ID: 64
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m
Last Update: 14-May-2013 16:48:47 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 14-May-2013 16:31:39

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.827 | 5.841 | -0.014 | 98 | 1463850 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.368 | 10.365 | 0.003 | 89 | 317642 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.423 | 14.436 | -0.013 | 97 | 562479 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.009 | 5.023 | -0.014 | 79 | 654970 | 8.53 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.461 | 5.475 | -0.014 | 81 | 287735 | 8.30 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.037 | 8.050 | -0.013 | 93 | 1355512 | 8.87 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.404 | 12.401 | 0.004 | 86 | 770338 | 8.77 | |
| 24 Dichlorodifluoromethane | 85 | | 1.757 | | | | | |
| 25 Chloromethane | 50 | | 1.844 | | | | | |
| 28 Vinyl chloride | 62 | | 1.949 | | | | | |
| 30 Bromomethane | 94 | | 2.158 | | | | | 19 |
| 31 Chloroethane | 64 | | 2.192 | | | | | |
| 33 Trichlorofluoromethane | 101 | | 2.401 | | | | | |
| 43 1,1-Dichloroethene | 96 | | 2.714 | | | | | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 2.761 | | | | | |
| 42 Acetone | 43 | 2.782 | 2.801 | -0.019 | 77 | 3635 | 1.02 | |
| 46 Carbon disulfide | 76 | | 2.935 | | | | | |
| 49 Methyl acetate | 43 | | 3.056 | | | | | |
| 50 Methylene Chloride | 84 | | 3.167 | | | | | |
| 53 trans-1,2-Dichloroethene | 96 | | 3.376 | | | | | |
| 54 Methyl tert-butyl ether | 73 | | 3.387 | | | | | |
| 56 1,1-Dichloroethane | 63 | | 3.828 | | | | | |
| 62 cis-1,2-Dichloroethene | 96 | | 4.454 | | | | | |
| 63 2,2-Dichloropropane | 77 | | 4.454 | | | | | 19 |
| 61 2-Butanone (MEK) | 43 | | 4.489 | | | | | |
| 68 Chlorobromomethane | 128 | | 4.750 | | | | | |
| 69 Chloroform | 83 | | 4.820 | | | | | |
| 72 Cyclohexane | 56 | | 5.023 | | | | | |
| 71 1,1,1-Trichloroethane | 97 | | 5.029 | | | | | |
| 74 Carbon tetrachloride | 117 | | 5.185 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 73 1,1-Dichloropropene | 75 | | 5.203 | | | | | |
| 77 Benzene | 78 | | 5.464 | | | | | |
| 76 1,2-Dichloroethane | 62 | | 5.568 | | | | | |
| 80 Trichloroethene | 95 | | 6.316 | | | | | 19 |
| 84 Methylcyclohexane | 55 | | 6.502 | | | | | |
| 83 1,2-Dichloropropane | 63 | | 6.682 | | | | | |
| 85 Dibromomethane | 93 | | 6.838 | | | | | |
| 87 1,4-Dioxane | 88 | | 6.873 | | | | | |
| 88 Dichlorobromomethane | 83 | | 7.065 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 7.726 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 7.987 | | | | | |
| 93 Toluene | 91 | | 8.161 | | | | | |
| 94 trans-1,3-Dichloropropene | 75 | | 8.613 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 8.892 | | | | | |
| 97 Tetrachloroethene | 164 | | 8.961 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.153 | | | | | |
| 99 2-Hexanone | 43 | | 9.292 | | | | | 19 |
| 100 Chlorodibromomethane | 129 | | 9.448 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.640 | | | | | |
| 104 1-Chlorohexane | 91 | | 10.405 | | | | | |
| 103 Chlorobenzene | 112 | | 10.423 | | | | | |
| 106 Ethylbenzene | 106 | | 10.579 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 10.597 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.788 | | | | | |
| 108 o-Xylene | 106 | | 11.467 | | | | | |
| 109 Styrene | 104 | | 11.519 | | | | | |
| 110 Bromoform | 173 | | 11.815 | | | | | |
| 111 Isopropylbenzene | 105 | | 12.093 | | | | | |
| 114 Bromobenzene | 156 | | 12.633 | | | | | |
| 115 1,1,2,2-Tetrachloroethane | 83 | | 12.755 | | | | | |
| 118 N-Propylbenzene | 120 | | 12.824 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 12.824 | | | | | |
| 119 2-Chlorotoluene | 126 | | 12.963 | | | | | |
| 121 1,3,5-Trimethylbenzene | 105 | | 13.155 | | | | | |
| 120 4-Chlorotoluene | 126 | | 13.190 | | | | | |
| 122 tert-Butylbenzene | 119 | | 13.694 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 13.816 | | | | | |
| 124 sec-Butylbenzene | 134 | | 14.094 | | | | | |
| 125 1,3-Dichlorobenzene | 146 | | 14.303 | | | | | |
| 126 4-Isopropyltoluene | 119 | | 14.373 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 14.477 | | | | | |
| 130 n-Butylbenzene | 91 | | 15.121 | | | | | |
| 129 1,2-Dichlorobenzene | 146 | | 15.138 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 16.443 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 17.366 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 17.505 | | | | | |
| 134 Naphthalene | 128 | | 17.609 | | | | | 19 |
| 135 1,2,3-Trichlorobenzene | 180 | | 17.836 | | | | | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

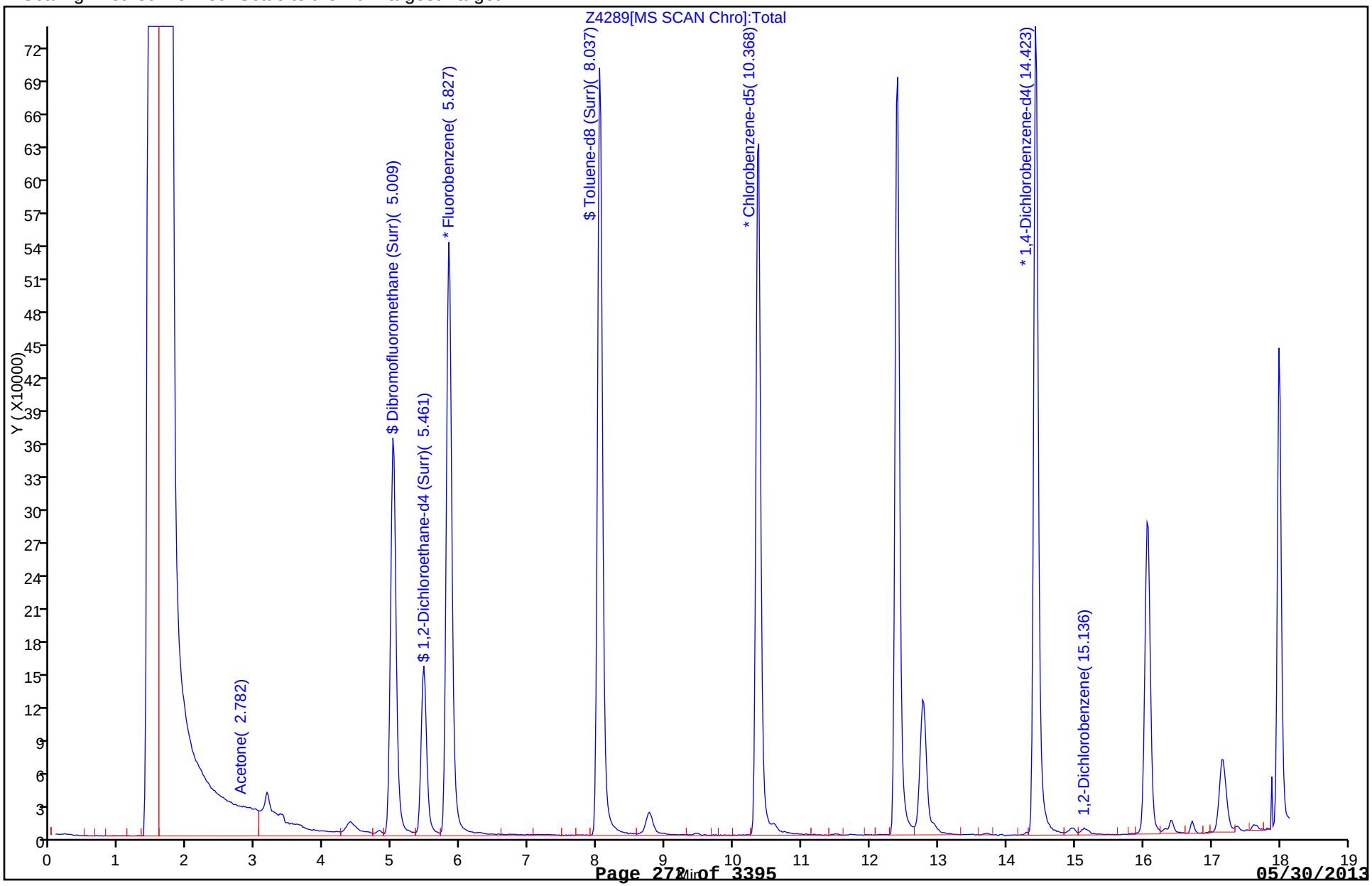
Report Date: 14-May-2013 16:48:53 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4289.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-May-2013 01:11:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | 050613AF | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 64 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AR | Lab Sample ID: 280-42039-13

Matrix: Water | Lab File ID: g2_8406.D

Analysis Method: 8260C | Date Collected: 05/06/2013 09:00

Sample wt/vol: 20(mL) | Date Analyzed: 05/15/2013 23:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174465 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.80 | U | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.80 | U | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.6 | U | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.40 | U | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 123-91-1 | 1,4-Dioxane | 80 | U | 220 | 80 | 71 |
| 544-10-5 | 1-Chlorohexane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 3.2 | U | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 3.2 | U | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 6.4 | U | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 0.40 | U | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 0.80 | U | 2.0 | 0.80 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AR | Lab Sample ID: 280-42039-13

Matrix: Water | Lab File ID: g2_8406.D

Analysis Method: 8260C | Date Collected: 05/06/2013 09:00

Sample wt/vol: 20(mL) | Date Analyzed: 05/15/2013 23:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174465 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 0.40 | U | 2.0 | 0.40 | 0.19 |
| 108-90-7 | Chlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 1.6 | U | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 0.80 | U | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 110-82-7 | Cyclohexane | 0.40 | U | 2.0 | 0.40 | 0.28 |
| 74-95-3 | Dibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 0.80 | U | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 0.20 | U | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 0.40 | U | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-20-9 | Methyl acetate | 2.0 | U | 5.0 | 2.0 | 1.6 |
| 1634-04-4 | Methyl tert-butyl ether | 0.40 | U | 5.0 | 0.40 | 0.25 |
| 108-87-2 | Methylcyclohexane | 0.40 | U | 2.0 | 0.40 | 0.36 |
| 75-09-2 | Methylene Chloride | 0.40 | U | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 0.80 | U | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 0.80 | U | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 0.80 | U | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 0.40 | U | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: 050613AR | Lab Sample ID: 280-42039-13

Matrix: Water | Lab File ID: g2_8406.D

Analysis Method: 8260C | Date Collected: 05/06/2013 09:00

Sample wt/vol: 20(mL) | Date Analyzed: 05/15/2013 23:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174465 | Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 113 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 112 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 104 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8406.D
Lims ID: 280-42039-C-13 Client ID: 050613AR
Inject. Date: 15-May-2013 23:49:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-42039-c-13 PH<2
Misc. Info.:
Operator: moanm Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 15
Lims Batch ID: 174465 Lims Sample ID: 16
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m
Last Update: 16-May-2013 17:07:32 Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC371

First Level Reviewer: moanm Date: 16-May-2013 00:35:53

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.641 | 7.648 | -0.007 | 99 | 1701888 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 348503 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 97 | 447016 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.090 | 7.091 | 0.0 | 58 | 339879 | 14.0 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 98 | 292152 | 14.1 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 93 | 1610314 | 13.0 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 87 | 455970 | 12.1 | |
| 25 Dichlorodifluoromethane | 85 | | 3.951 | | | | | |
| 27 Chloromethane | 50 | | 4.160 | | | | | |
| 28 Vinyl chloride | 62 | | 4.300 | | | | | |
| 31 Bromomethane | 94 | | 4.677 | | | | | |
| 32 Chloroethane | 64 | | 4.747 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.026 | | | | | |
| 42 Acetone | 43 | | 5.389 | | | | | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.417 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.445 | | | | | |
| 48 Methyl acetate | 43 | | 5.627 | | | | | |
| 50 Carbon disulfide | 76 | | 5.725 | | | | | |
| 52 Methylene Chloride | 84 | | 5.780 | | | | | |
| 54 Methyl tert-butyl ether | 73 | | 5.976 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.004 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.333 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.697 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.762 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.797 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.955 | | | | | |
| 70 Chloroform | 83 | | 6.969 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.198 | | | | | |
| 74 Cyclohexane | 56 | | 7.276 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.298 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 Carbon tetrachloride | 117 | | 7.341 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.441 | | | | | |
| 79 Benzene | 78 | | 7.477 | | | | | |
| 81 Trichloroethene | 95 | | 7.941 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.120 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.142 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.170 | | | | | |
| 87 Dibromomethane | 93 | | 8.213 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.285 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.606 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.656 | | | | | |
| 93 Toluene | 91 | | 8.892 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.978 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.135 | | | | | |
| 97 2-Hexanone | 43 | | 9.250 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.271 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.307 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.464 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.593 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.829 | | | | | |
| 104 Chlorobenzene | 112 | | 9.936 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.972 | | | | | |
| 106 Ethylbenzene | 106 | | 9.979 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.051 | | | | | |
| 109 Styrene | 104 | | 10.372 | | | | | |
| 108 o-Xylene | 106 | | 10.372 | | | | | |
| 110 Bromoform | 173 | | 10.565 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.637 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.830 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.902 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.952 | | | | | |
| 117 Bromobenzene | 156 | | 10.952 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.066 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.073 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.152 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.359 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.388 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.545 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.631 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.702 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.767 | | | | | |
| 129 n-Butylbenzene | 91 | | 12.003 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.131 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.861 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.826 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.983 | | | | | |
| 134 Naphthalene | 128 | | 14.183 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.505 | | | | | |

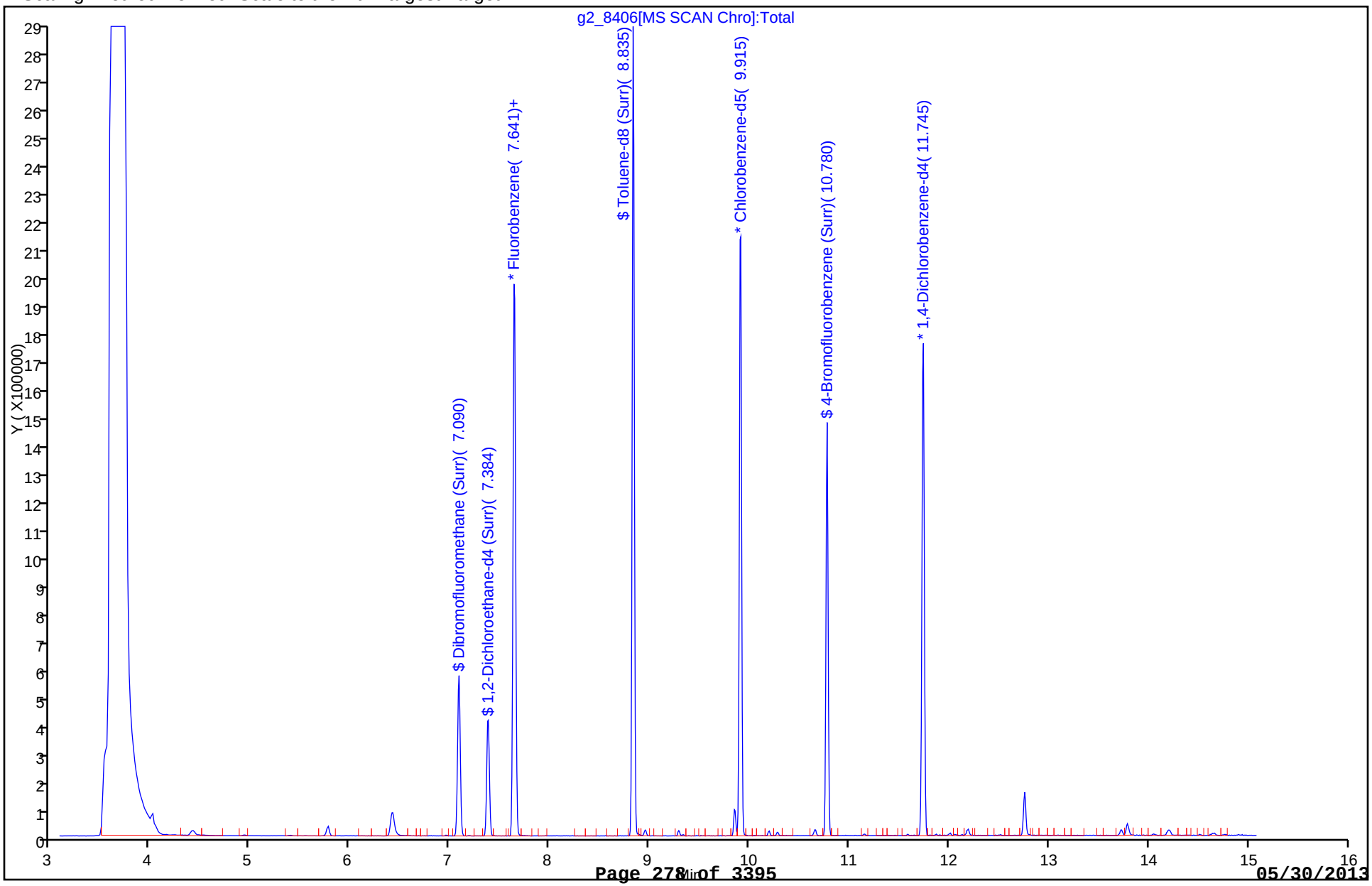
Report Date: 16-May-2013 17:07:42 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8406.D

| | | | |
|---|---|---|---|
| Injection Date: | 15-May-2013 23:49:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | 050613AR | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 16 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 162427

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2013 10:31 Calibration End Date: 02/28/2013 12:04 Calibration ID: 12959

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-162427/16 | g2_5575.D |
| Level 2 | IC 280-162427/17 | g2_5576.D |
| Level 3 | IC 280-162427/18 | g2_5577.D |
| Level 4 | ICIS 280-162427/19 | g2_5578.D |
| Level 5 | IC 280-162427/20 | g2_5579.D |
| Level 6 | IC 280-162427/21 | g2_5580.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.7345 0.5245 | 0.5970 | 0.5586 | 0.5635 | 0.5539 | Ave | | 0.5887 | | | | 13.0 | | 15.0 | | | |
| Ethyl ether | 0.1584 0.1261 | 0.1374 | 0.1328 | 0.1328 | 0.1274 | Ave | | 0.1358 | | | | 8.7 | | 15.0 | | | |
| 2,2-Dichloro-1,1,1-trifluoroethane | 0.5932 0.4298 | 0.4846 | 0.4490 | 0.4542 | 0.4494 | Ave | | 0.4767 | | | | 13.0 | | 15.0 | | | |
| Propene oxide | 0.0251 0.0196 | 0.0218 | 0.0212 | 0.0209 | 0.0206 | Ave | | 0.0215 | | | | 8.7 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.2813 0.2199 | 0.2318 | 0.2219 | 0.2270 | 0.2269 | Ave | | 0.2348 | | | | 9.9 | | 15.0 | | | |
| Isopropyl alcohol | 0.0072 0.0047 | 0.0058 | 0.0050 | 0.0050 | 0.0049 | Lin2 | 0.0482 | 0.0047 | | | | | | | 0.9990 | | 0.9900 |
| Methyl acetate | 0.0603 0.0511 | 0.0589 | 0.0564 | 0.0563 | 0.0554 | Ave | | 0.0564 | | | | 5.7 | | 15.0 | | | |
| Allyl chloride | 0.5240 0.3914 | 0.4469 | 0.4220 | 0.4230 | 0.4019 | Ave | | 0.4349 | | | | 11.0 | | 15.0 | | | |
| Carbon disulfide | 1.5071 1.1198 | 1.2431 | 1.1868 | 1.1861 | 1.1872 | Ave | | 1.2384 | | | | 11.0 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.5649 0.4393 | 0.4741 | 0.4544 | 0.4543 | 0.4501 | Ave | | 0.4728 | | | | 9.8 | | 15.0 | | | |
| Hexane | 3.2049 2.3651 | 2.6487 | 2.5171 | 2.5033 | 2.4661 | Ave | | 2.6175 | | | | 12.0 | | 15.0 | | | |
| Vinyl acetate | 0.1921 0.1468 | 0.1772 | 0.1770 | 0.1691 | 0.1740 | Ave | | 0.1727 | | | | 8.6 | | 15.0 | | | |
| Tert-butyl ethyl ether | 0.6912 0.4948 | 0.6051 | 0.5806 | 0.5814 | 0.5501 | Ave | | 0.5839 | | | | 11.0 | | 15.0 | | | |
| Ethyl acetate | 0.0777 0.0755 | 0.0844 | 0.0798 | 0.0801 | 0.0787 | Ave | | 0.0794 | | | | 3.8 | | 15.0 | | | |
| Tetrahydrofuran | 0.0226 0.0205 | 0.0249 | 0.0231 | 0.0220 | 0.0208 | Ave | | 0.0223 | | | | 7.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 162427

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2013 10:31 Calibration End Date: 02/28/2013 12:04 Calibration ID: 12959

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Cyclohexane | 0.7373<br>0.5395 | 0.6040 | 0.5621 | 0.5668 | 0.5616 | Ave | | 0.5952 | | | | 12.0 | | 15.0 | | | |
| 2-Butanol | 0.0058<br>0.0046 | 0.0052 | 0.0048 | 0.0050 | 0.0048 | Lin1 | 0.0435 | 0.0047 | | | | | | | 1.0000 | | 0.9900 |
| Tert-amyl methyl ether | 0.5182<br>0.4030 | 0.4619 | 0.4477 | 0.4537 | 0.4355 | Ave | | 0.4533 | | | | 8.3 | | 15.0 | | | |
| 2-Pentanone | 0.0553<br>0.0503 | 0.0573 | 0.0520 | 0.0527 | 0.0479 | Ave | | 0.0526 | | | | 6.4 | | 15.0 | | | |
| Methyl methacrylate | 0.0239<br>0.0239 | 0.0235 | 0.0229 | 0.0235 | 0.0224 | Lin2 | 0.0015 | 0.0231 | | | | | | | 0.9990 | | 0.9900 |
| Methylcyclohexane | 0.6040<br>0.4358 | 0.4817 | 0.4606 | 0.4568 | 0.4538 | Ave | | 0.4821 | | | | 13.0 | | 15.0 | | | |
| 2-Nitropropane | 0.0112<br>0.0152 | 0.0158 | 0.0143 | 0.0136 | 0.0139 | Lin | -0.008 | 0.0151 | | | | | | | 0.9980 | | 0.9900 |
| 2-Chloroethyl vinyl ether | 0.0552<br>0.0582 | 0.0549 | 0.0564 | 0.0563 | 0.0548 | Ave | | 0.0560 | | | | 2.3 | | 15.0 | | | |
| Ethyl methacrylate | 0.8332<br>0.7790 | 0.7898 | 0.7677 | 0.7876 | 0.7612 | Lin2 | 0.1202 | 0.7679 | | | | | | | 1.0000 | | 0.9900 |
| cis-1,4-Dichloro-2-butene | 0.0718<br>0.0695 | 0.0713 | 0.0653 | 0.0660 | 0.0655 | Ave | | 0.0682 | | | | 4.4 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1032<br>0.0917 | 0.0882 | 0.0874 | 0.0872 | 0.0851 | Ave | | 0.0905 | | | | 7.3 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.2579<br>0.2046 | 0.2231 | 0.2124 | 0.2103 | 0.2085 | Ave | | 0.2194 | | | | 9.0 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.2171<br>0.1741 | 0.1979 | 0.1857 | 0.1847 | 0.1774 | Ave | | 0.1895 | | | | 8.4 | | 15.0 | | | |
| Toluene-d8 (Surr) | 6.1854<br>4.7390 | 5.3153 | 5.0342 | 5.0587 | 4.9191 | Ave | | 5.2086 | | | | 9.9 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 1.4103<br>1.1268 | 1.2503 | 1.1549 | 1.1666 | 1.1265 | Ave | | 1.2059 | | | | 9.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 162427

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2013 10:31 Calibration End Date: 02/28/2013 12:04 Calibration ID: 12959

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-162427/16 | g2_5575.D |
| Level 2 | IC 280-162427/17 | g2_5576.D |
| Level 3 | IC 280-162427/18 | g2_5577.D |
| Level 4 | ICIS 280-162427/19 | g2_5578.D |
| Level 5 | IC 280-162427/20 | g2_5579.D |
| Level 6 | IC 280-162427/21 | g2_5580.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 79018<br>4002853 | 139722 | 338513 | 662348 | 1935986 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Ethyl ether | FB | Ave | 17042<br>962640 | 32158 | 80483 | 156154 | 445321 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2,2-Dichloro-1,1,1-trifluoroethane | FB | Ave | 63815<br>3279945 | 113416 | 272079 | 533867 | 1570576 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Propene oxide | FB | Ave | 134809<br>7470684 | 255249 | 643287 | 1227615 | 3601071 | 50.0<br>3000 | 100 | 250 | 500 | 1500 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | FB | Ave | 30266<br>1678087 | 54244 | 134464 | 266804 | 792960 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Isopropyl alcohol | FB | Lin2 | 15418<br>718391 | 27375 | 60337 | 118432 | 344569 | 20.0<br>1200 | 40.0 | 100 | 200 | 600 |
| Methyl acetate | FB | Ave | 32443<br>1949575 | 68927 | 170887 | 331049 | 967706 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| Allyl chloride | FB | Ave | 56370<br>2986922 | 104605 | 255751 | 497193 | 1404640 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Carbon disulfide | FB | Ave | 162132<br>8546774 | 290947 | 719211 | 1394138 | 4149586 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Methyl tert-butyl ether | FB | Ave | 60770<br>3352616 | 110949 | 275348 | 533960 | 1573081 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Hexane | CBZ | Ave | 62336<br>3313089 | 116176 | 282575 | 550192 | 1551510 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Vinyl acetate | FB | Ave | 41335<br>2240696 | 82933 | 214498 | 397499 | 1216356 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Tert-butyl ethyl ether | FB | Ave | 371779<br>18880363 | 708107 | 1759368 | 3416964 | 9613794 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| Ethyl acetate | FB | Ave | 16712<br>1153069 | 39522 | 96662 | 188242 | 549911 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Tetrahydrofuran | FB | Ave | 4870<br>312281 | 11632 | 27977 | 51678 | 145628 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Cyclohexane | FB | Ave | 79323<br>4117233 | 141354 | 340647 | 666243 | 1962822 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 162427

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2013 10:31 Calibration End Date: 02/28/2013 12:04 Calibration ID: 12959

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 2-Butanol | FB | Lin1 | 22551<br>1282755 | 44613 | 106480 | 212174 | 610242 | 36.4<br>2185 | 72.8 | 182 | 364 | 1093 |
| Tert-amyl methyl ether | FB | Ave | 278755<br>15380037 | 540517 | 1356457 | 2666496 | 7611653 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| 2-Pentanone | FB | Ave | 23775<br>1536661 | 53655 | 125969 | 247902 | 670262 | 4.00<br>240 | 8.00 | 20.0 | 40.0 | 120 |
| Methyl methacrylate | FB | Lin2 | 5139<br>364094 | 11021 | 27728 | 55268 | 156529 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Methylcyclohexane | FB | Ave | 64983<br>3325711 | 112748 | 279154 | 536914 | 1586255 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2-Nitropropane | FB | Lin | 1210<br>115669 | 3697 | 8681 | 15951 | 48680 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 5941<br>444214 | 12860 | 34163 | 66215 | 191489 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Ethyl methacrylate | CBZ | Lin2 | 32412<br>2182427 | 69284 | 172368 | 346195 | 957782 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| cis-1,4-Dichloro-2-butene | DCB | Ave | 1973<br>134575 | 4372 | 10388 | 20120 | 57669 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 2835<br>177750 | 5414 | 13914 | 26580 | 74939 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 27741<br>1561407 | 52217 | 128721 | 247133 | 728684 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 23359<br>1328597 | 46311 | 112543 | 217156 | 619981 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 120306<br>6638506 | 233138 | 565138 | 1111850 | 3094854 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 4-Bromofluorobenzene (Surr) | DCB | Ave | 38738<br>2183123 | 76712 | 183806 | 355424 | 992192 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin = Linear ISTD |
| Lin1 = Linear 1/conc ISTD |
| Lin2 = Linear 1/conc^2 ISTD |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5575.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 28-Feb-2013 10:31:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | ic001 | | |
| Misc. Info.: | | | |
| Operator: | ilczyszynd | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 17 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 16 |
| Sublist: | chrom-AQ_VMSG2_8260*sub4 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-Mar-2013 11:30:45 | Calib Date: | 28-Feb-2013 12:04:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 28-Feb-2013 11:53:50 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.655 | 7.655 | 0.0 | 98 | 1344739 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.922 | 9.922 | 0.0 | 86 | 243126 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.760 | 11.752 | 0.008 | 97 | 343345 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.105 | 7.105 | 0.0 | 50 | 27741 | 1.18 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.391 | 7.391 | 0.0 | 92 | 23359 | 1.15 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.849 | 8.849 | 0.0 | 92 | 120306 | 1.19 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.794 | 10.787 | 0.007 | 79 | 38738 | 1.17 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.132 | 4.119 | 0.013 | 71 | 33372 | 1.25 | |
| 30 Ethylene oxide | 43 | 4.649 | 4.635 | 0.014 | 99 | 121128 | 127.1 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 88 | 79018 | 1.25 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 78 | 37593 | 1.20 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 28 | 17042 | 1.17 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 70 | 63815 | 1.24 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 94 | 134809 | 58.2 | |
| 44 Isopropyl alcohol | 45 | 5.417 | 5.417 | 0.0 | 26 | 15418 | 20.2 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.417 | 0.0 | 76 | 30266 | 1.20 | |
| 48 Methyl acetate | 43 | 5.641 | 5.641 | 0.0 | 92 | 32443 | 5.35 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 69 | 56370 | 1.20 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 97 | 162132 | 1.22 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 83 | 60770 | 1.19 | |
| 56 Hexane | 57 | 6.197 | 6.197 | 0.0 | 87 | 62336 | 1.22 | |
| 57 Vinyl acetate | 43 | 6.275 | 6.268 | 0.007 | 87 | 41335 | 2.22 | |
| 61 Tert-butyl ethyl ether | 59 | 6.576 | 6.576 | 0.0 | 98 | 371779 | 5.92 | |
| 63 Ethyl acetate | 43 | 6.690 | 6.697 | -0.007 | 65 | 16712 | 1.96 | |
| 71 Tetrahydrofuran | 42 | 7.005 | 7.005 | 0.0 | 70 | 4870 | 2.03 | |
| 74 Cyclohexane | 56 | 7.284 | 7.291 | -0.007 | 88 | 79323 | 1.24 | |
| 65 sec-Butyl Alcohol | 45 | 7.469 | 7.477 | -0.008 | 28 | 22551 | 35.6 | |
| 78 Tert-amyl methyl ether | 73 | 7.477 | 7.477 | 0.0 | 99 | 278755 | 5.72 | |
| 82 2-Pentanone | 43 | 7.970 | 7.970 | 0.0 | 82 | 23775 | 4.20 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | 8.070 | 8.070 | 0.0 | 78 | 5139 | 2.00 | |
| 85 Methylcyclohexane | 55 | 8.149 | 8.156 | -0.007 | 87 | 64983 | 1.25 | |
| 89 2-Nitropropane | 41 | 8.428 | 8.428 | 0.0 | 39 | 1210 | 1.31 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.428 | 8.435 | -0.007 | 57 | 5941 | 0.9865 | |
| 94 Ethyl methacrylate | 69 | 8.978 | 8.978 | 0.0 | 83 | 32412 | 2.01 | |
| 101 Tetrahydrothiophene | 60 | 9.522 | 9.522 | 0.0 | 62 | 6108 | 1.04 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.658 | 10.659 | 0.0 | 86 | 1973 | 1.05 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.873 | 10.866 | 0.007 | 28 | 2835 | 1.14 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.788 | 11.781 | 0.007 | 84 | 114100 | 1.15 | |

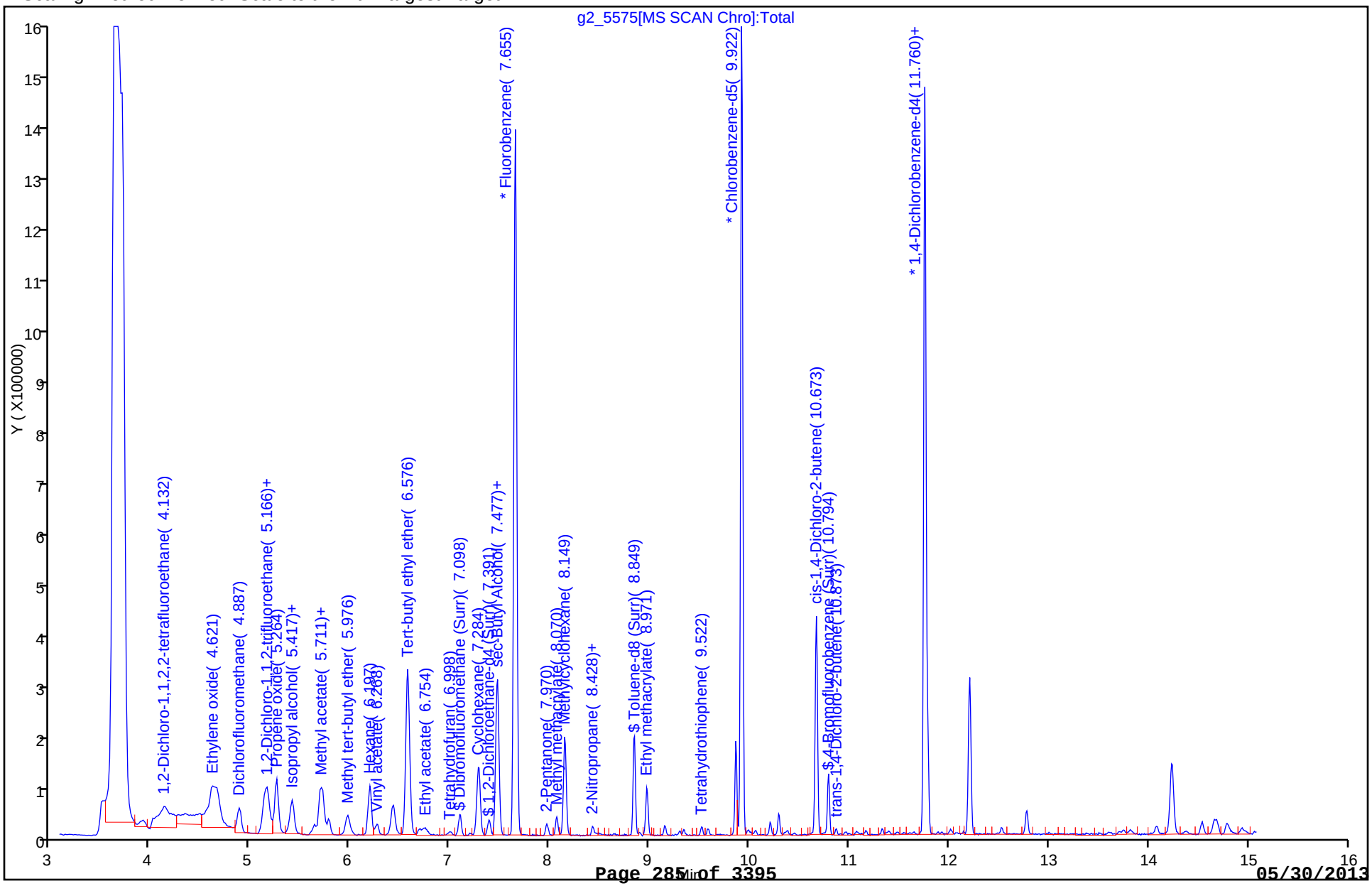
Report Date: 01-Mar-2013 11:30:46 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5575.D

| | | | |
|---|---|---|---|
| Injection Date: | 28-Feb-2013 10:31:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 16 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5576.D
Lims ID: ic Client ID:
Inject. Date: 28-Feb-2013 10:49:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: ic002
Misc. Info.:
Operator: ilczyszynd Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 18
Lims Batch ID: 162427 Lims Sample ID: 17
Sublist: chrom-AQ_VMSG2_8260*sub4
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m
Last Update: 01-Mar-2013 11:30:44 Calib Date: 28-Feb-2013 12:04:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC277

First Level Reviewer: ilczyszynd Date: 28-Feb-2013 11:54:03

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.662 | 7.655 | 0.007 | 99 | 1462763 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.922 | 9.922 | 0.0 | 86 | 274133 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.760 | 11.752 | 0.008 | 96 | 383457 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.105 | 7.105 | 0.0 | 55 | 52217 | 2.03 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.398 | 7.391 | 0.007 | 96 | 46311 | 2.09 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.849 | 8.849 | 0.0 | 92 | 233138 | 2.04 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.794 | 10.787 | 0.007 | 81 | 76712 | 2.07 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.132 | 4.119 | 0.013 | 82 | 59989 | 2.07 | |
| 30 Ethylene oxide | 43 | 4.649 | 4.635 | 0.014 | 99 | 198612 | 239.6 | |
| 33 Dichlorofluoromethane | 67 | 4.901 | 4.887 | 0.014 | 96 | 139722 | 2.03 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.152 | 5.138 | 0.014 | 73 | 69163 | 2.03 | |
| 38 Ethyl ether | 59 | 5.180 | 5.166 | 0.014 | 88 | 32158 | 2.02 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 82 | 113416 | 2.03 | |
| 39 Propene oxide | 58 | 5.278 | 5.264 | 0.014 | 94 | 255249 | 101.3 | |
| 44 Isopropyl alcohol | 45 | 5.431 | 5.417 | 0.014 | 37 | 27375 | 39.5 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.431 | 5.417 | 0.014 | 81 | 54244 | 1.97 | |
| 48 Methyl acetate | 43 | 5.641 | 5.641 | 0.0 | 97 | 68927 | 10.4 | |
| 49 3-Chloro-1-propene | 41 | 5.711 | 5.697 | 0.014 | 80 | 104605 | 2.06 | |
| 50 Carbon disulfide | 76 | 5.739 | 5.725 | 0.014 | 98 | 290947 | 2.01 | |
| 54 Methyl tert-butyl ether | 73 | 5.990 | 5.976 | 0.014 | 86 | 110949 | 2.01 | |
| 56 Hexane | 57 | 6.204 | 6.197 | 0.007 | 88 | 116176 | 2.02 | |
| 57 Vinyl acetate | 43 | 6.275 | 6.268 | 0.007 | 88 | 82933 | 4.10 | |
| 61 Tert-butyl ethyl ether | 59 | 6.583 | 6.576 | 0.007 | 98 | 708107 | 10.4 | |
| 63 Ethyl acetate | 43 | 6.704 | 6.697 | 0.007 | 93 | 39522 | 4.26 | |
| 71 Tetrahydrofuran | 42 | 7.005 | 7.005 | 0.0 | 75 | 11632 | 4.46 | |
| 74 Cyclohexane | 56 | 7.291 | 7.291 | 0.0 | 89 | 141354 | 2.03 | |
| 65 sec-Butyl Alcohol | 45 | 7.477 | 7.477 | 0.0 | 29 | 44613 | 72.4 | |
| 78 Tert-amyl methyl ether | 73 | 7.477 | 7.477 | 0.0 | 99 | 540517 | 10.2 | |
| 82 2-Pentanone | 43 | 7.977 | 7.970 | 0.007 | 85 | 53655 | 8.72 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | 8.077 | 8.070 | 0.007 | 86 | 11021 | 4.01 | |
| 85 Methylcyclohexane | 55 | 8.156 | 8.156 | 0.0 | 89 | 112748 | 2.00 | |
| 89 2-Nitropropane | 41 | 8.428 | 8.428 | 0.0 | 46 | 3697 | 2.66 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.435 | 8.435 | 0.0 | 79 | 12860 | 1.96 | |
| 94 Ethyl methacrylate | 69 | 8.978 | 8.978 | 0.0 | 86 | 69284 | 3.96 | |
| 101 Tetrahydrothiophene | 60 | 9.522 | 9.522 | 0.0 | 66 | 13113 | 1.98 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.651 | 10.659 | -0.007 | 11 | 4372 | 2.09 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.873 | 10.866 | 0.007 | 61 | 5414 | 1.95 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.781 | 11.781 | 0.0 | 79 | 221355 | 2.00 | |

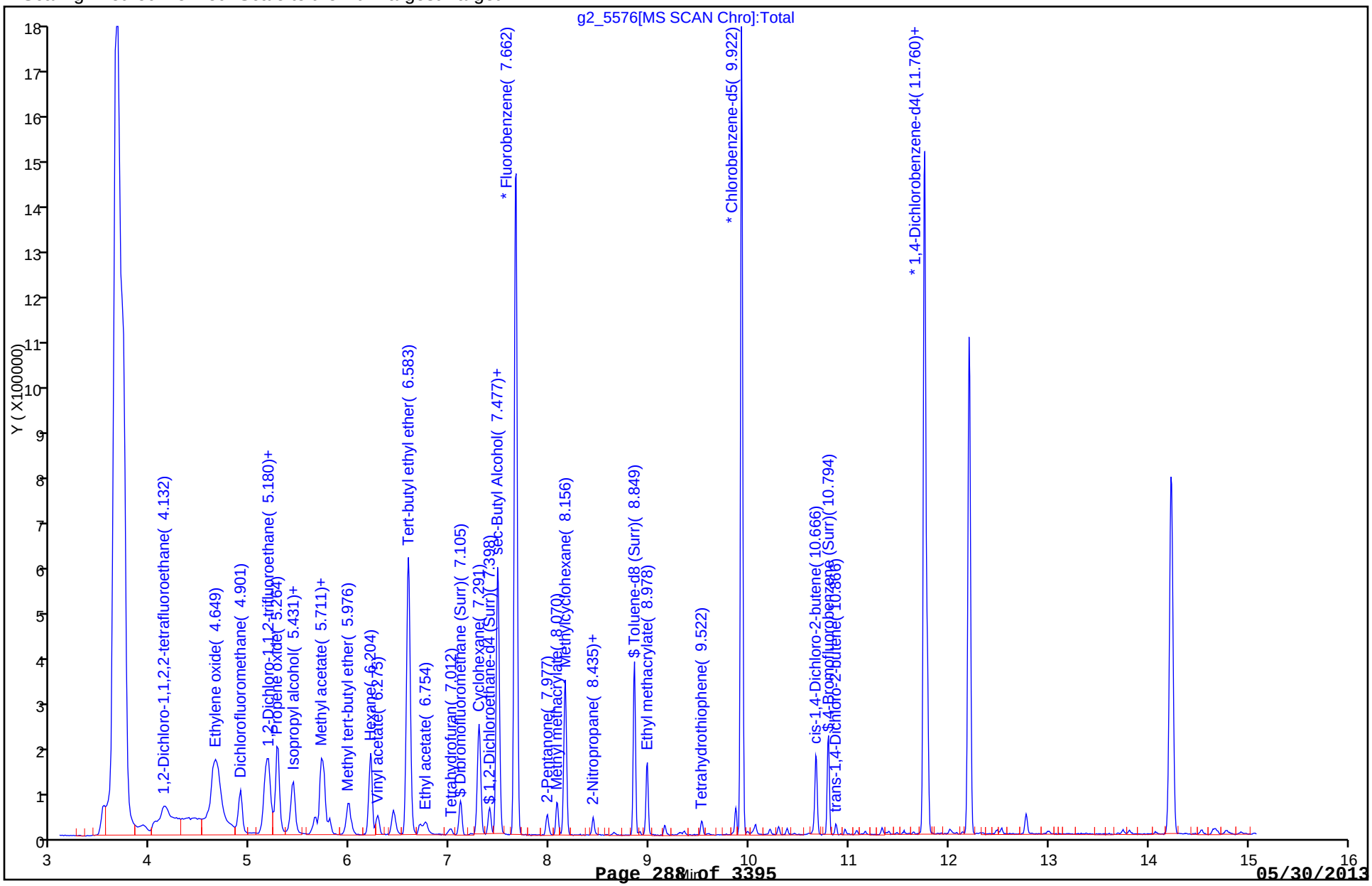
Report Date: 01-Mar-2013 11:30:44 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5576.D

| | | | |
|---|---|---|---|
| Injection Date: | 28-Feb-2013 10:49:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 17 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5577.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 28-Feb-2013 11:08:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | ic005 | | |
| Misc. Info.: | | | |
| Operator: | ilczyszynd | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 19 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 18 |
| Sublist: | chrom-AQ_VMSG2_8260*sub4 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-Mar-2013 11:30:42 | Calib Date: | 28-Feb-2013 12:04:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 28-Feb-2013 11:54:20 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.655 | 7.655 | 0.0 | 98 | 1515035 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.922 | 9.922 | 0.0 | 88 | 280650 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.760 | 11.752 | 0.008 | 97 | 397876 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.105 | 7.105 | 0.0 | 63 | 128721 | 4.84 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.398 | 7.391 | 0.007 | 98 | 112543 | 4.90 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.850 | 8.849 | 0.001 | 93 | 565138 | 4.83 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.794 | 10.787 | 0.007 | 84 | 183806 | 4.79 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.133 | 4.119 | 0.014 | 90 | 144398 | 4.82 | |
| 30 Ethylene oxide | 43 | 4.649 | 4.635 | 0.014 | 99 | 436593 | 614.9 | |
| 33 Dichlorofluoromethane | 67 | 4.901 | 4.887 | 0.014 | 82 | 338513 | 4.74 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.152 | 5.138 | 0.014 | 89 | 169079 | 4.79 | |
| 38 Ethyl ether | 59 | 5.180 | 5.166 | 0.014 | 92 | 80483 | 4.89 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 87 | 272079 | 4.71 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 96 | 643287 | 246.5 | |
| 44 Isopropyl alcohol | 45 | 5.431 | 5.417 | 0.014 | 34 | 60337 | 95.6 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.431 | 5.417 | 0.014 | 86 | 134464 | 4.73 | |
| 48 Methyl acetate | 43 | 5.641 | 5.641 | 0.0 | 91 | 170887 | 25.0 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 89 | 255751 | 4.85 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 99 | 719211 | 4.79 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 88 | 275348 | 4.80 | |
| 56 Hexane | 57 | 6.204 | 6.197 | 0.007 | 90 | 282575 | 4.81 | |
| 57 Vinyl acetate | 43 | 6.275 | 6.268 | 0.007 | 90 | 214498 | 10.2 | |
| 61 Tert-butyl ethyl ether | 59 | 6.583 | 6.576 | 0.007 | 98 | 1759368 | 24.9 | |
| 63 Ethyl acetate | 43 | 6.697 | 6.697 | 0.0 | 93 | 96662 | 10.0 | |
| 71 Tetrahydrofuran | 42 | 7.005 | 7.005 | 0.0 | 80 | 27977 | 10.3 | |
| 74 Cyclohexane | 56 | 7.291 | 7.291 | 0.0 | 89 | 340647 | 4.72 | |
| 65 sec-Butyl Alcohol | 45 | 7.477 | 7.477 | 0.0 | 32 | 106480 | 179.1 | |
| 78 Tert-amyl methyl ether | 73 | 7.477 | 7.477 | 0.0 | 99 | 1356457 | 24.7 | |
| 82 2-Pentanone | 43 | 7.970 | 7.970 | 0.0 | 96 | 125969 | 19.8 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | 8.070 | 8.070 | 0.0 | 88 | 27728 | 9.83 | |
| 85 Methylcyclohexane | 55 | 8.156 | 8.156 | 0.0 | 89 | 279154 | 4.78 | |
| 89 2-Nitropropane | 41 | 8.428 | 8.428 | 0.0 | 42 | 8681 | 5.31 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.435 | 8.435 | 0.0 | 86 | 34163 | 5.04 | |
| 94 Ethyl methacrylate | 69 | 8.978 | 8.978 | 0.0 | 88 | 172368 | 9.84 | |
| 101 Tetrahydrothiophene | 60 | 9.522 | 9.522 | 0.0 | 87 | 33127 | 4.90 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.659 | 10.659 | 0.0 | 94 | 10388 | 4.78 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.866 | 10.866 | 0.0 | 75 | 13914 | 4.83 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.781 | 11.781 | 0.0 | 99 | 553246 | 4.82 | |

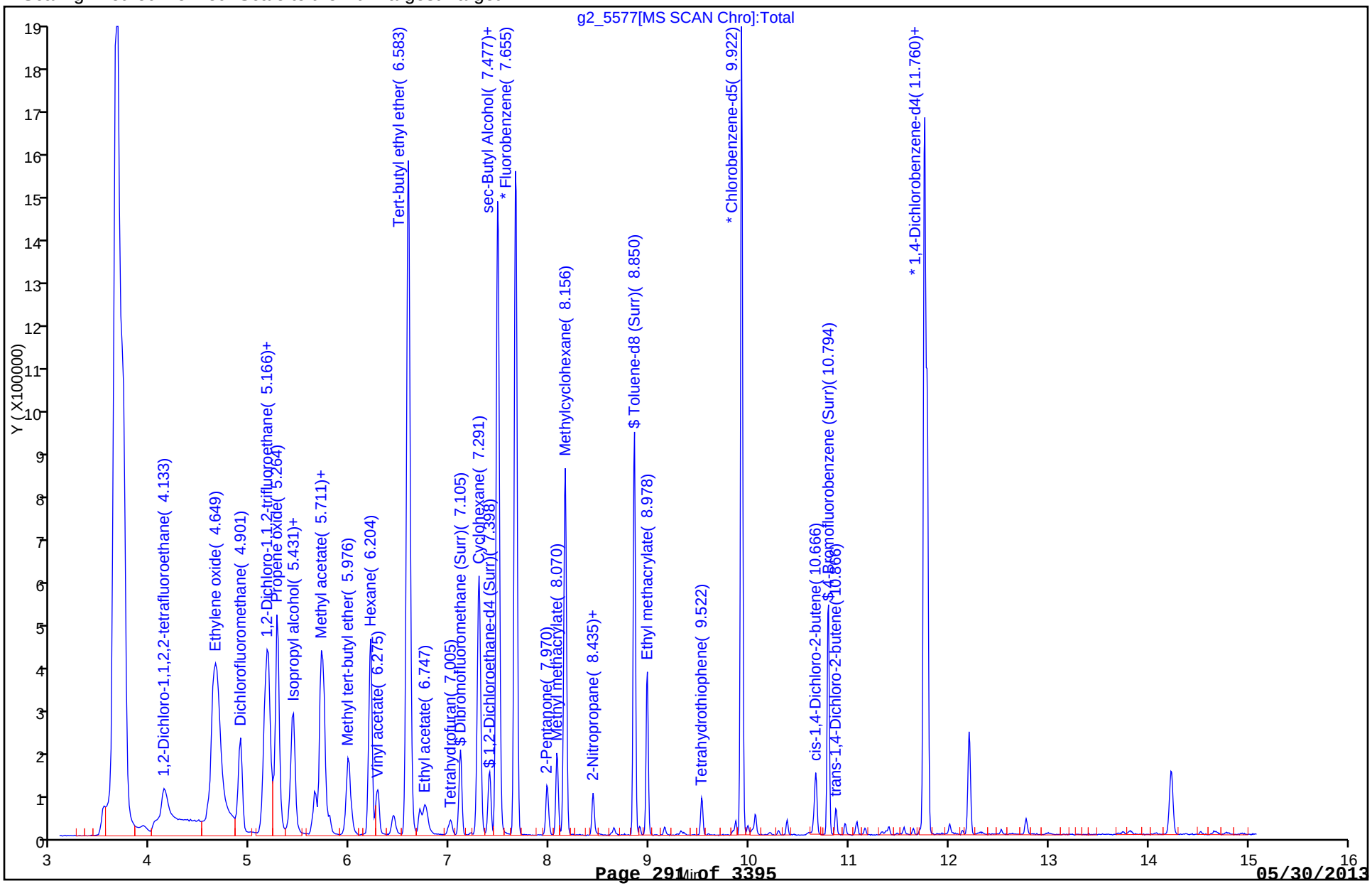
Report Date: 01-Mar-2013 11:30:43 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5577.D

| | | | |
|---|---|---|---|
| Injection Date: | 28-Feb-2013 11:08:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 18 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5578.D | | |
| Lims ID: | icis | Client ID: | |
| Inject. Date: | 28-Feb-2013 11:27:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICIS | Calib Level: | 5 |
| Sample ID: | ic010 | | |
| Misc. Info.: | | | |
| Operator: | ilczyszynd | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 20 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 19 |
| Sublist: | chrom-AQ_VMSG2_8260*sub4 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-Mar-2013 11:30:40 | Calib Date: | 28-Feb-2013 12:04:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 28-Feb-2013 11:54:33 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.655 | 7.655 | 0.0 | 98 | 1469270 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.922 | 9.922 | 0.0 | 86 | 274738 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.752 | 11.752 | 0.0 | 97 | 380831 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.105 | 7.105 | 0.0 | 65 | 247133 | 9.58 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.391 | 7.391 | 0.0 | 98 | 217156 | 9.75 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.849 | 8.849 | 0.0 | 93 | 1111850 | 9.71 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.787 | 10.787 | 0.0 | 84 | 355424 | 9.67 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.119 | 4.119 | 0.0 | 95 | 283341 | 9.75 | |
| 30 Ethylene oxide | 43 | 4.635 | 4.635 | 0.0 | 99 | 867336 | 1359.0 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 82 | 662348 | 9.57 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 79 | 326195 | 9.52 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 90 | 156154 | 9.78 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 85 | 533867 | 9.53 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 96 | 1227615 | 485.1 | |
| 44 Isopropyl alcohol | 45 | 5.417 | 5.417 | 0.0 | 24 | 118432 | 204.1 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.417 | 0.0 | 87 | 266804 | 9.67 | |
| 48 Methyl acetate | 43 | 5.641 | 5.641 | 0.0 | 97 | 331049 | 49.9 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 86 | 497193 | 9.73 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 99 | 1394138 | 9.58 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 89 | 533960 | 9.61 | |
| 56 Hexane | 57 | 6.197 | 6.197 | 0.0 | 91 | 550192 | 9.56 | |
| 57 Vinyl acetate | 43 | 6.268 | 6.268 | 0.0 | 90 | 397499 | 19.6 | |
| 61 Tert-butyl ethyl ether | 59 | 6.576 | 6.576 | 0.0 | 98 | 3416964 | 49.8 | |
| 63 Ethyl acetate | 43 | 6.697 | 6.697 | 0.0 | 95 | 188242 | 20.2 | |
| 71 Tetrahydrofuran | 42 | 7.005 | 7.005 | 0.0 | 83 | 51678 | 19.7 | |
| 74 Cyclohexane | 56 | 7.291 | 7.291 | 0.0 | 90 | 666243 | 9.52 | |
| 65 sec-Butyl Alcohol | 45 | 7.477 | 7.477 | 0.0 | 33 | 212174 | 377.9 | |
| 78 Tert-amyl methyl ether | 73 | 7.477 | 7.477 | 0.0 | 99 | 2666496 | 50.0 | |
| 82 2-Pentanone | 43 | 7.970 | 7.970 | 0.0 | 98 | 247902 | 40.1 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | 8.070 | 8.070 | 0.0 | 88 | 55268 | 20.3 | |
| 85 Methylcyclohexane | 55 | 8.156 | 8.156 | 0.0 | 89 | 536914 | 9.47 | |
| 89 2-Nitropropane | 41 | 8.428 | 8.428 | 0.0 | 54 | 15951 | 9.56 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.435 | 8.435 | 0.0 | 93 | 66215 | 10.1 | |
| 94 Ethyl methacrylate | 69 | 8.978 | 8.978 | 0.0 | 88 | 346195 | 20.4 | |
| 101 Tetrahydrothiophene | 60 | 9.522 | 9.522 | 0.0 | 91 | 66196 | 10.0 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.659 | 10.659 | 0.0 | 95 | 20120 | 9.68 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.866 | 10.866 | 0.0 | 85 | 26580 | 9.64 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.781 | 11.781 | 0.0 | 99 | 1070299 | 9.74 | |

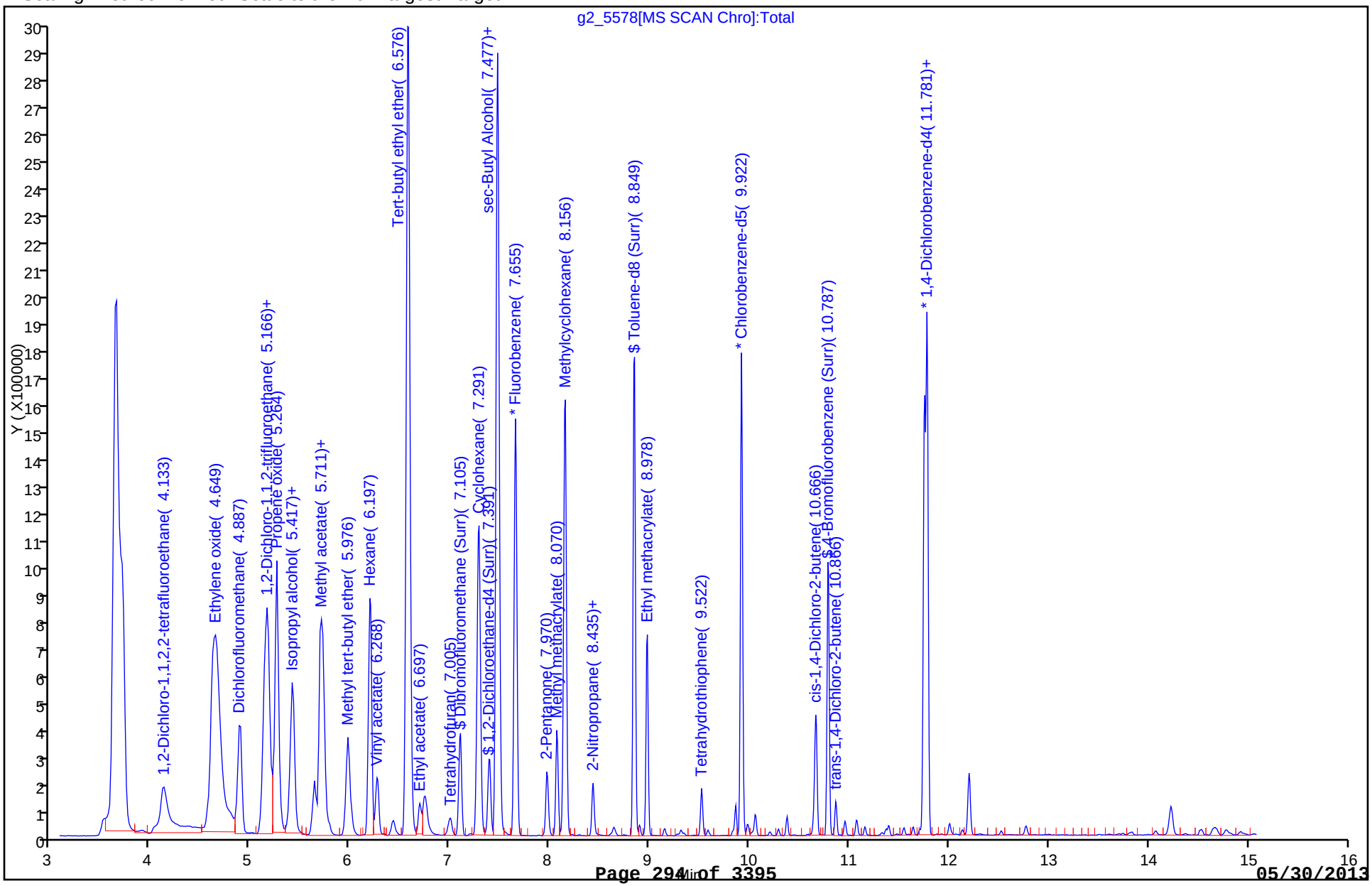
Report Date: 01-Mar-2013 11:30:40 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5578.D

| | | | |
|---|---|---|---|
| Injection Date: | 28-Feb-2013 11:27:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 19 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5579.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 28-Feb-2013 11:46:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | ic030 | | |
| Misc. Info.: | | | |
| Operator: | ilczyszynd | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 21 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 20 |
| Sublist: | chrom-AQ_VMSG2_8260*sub4 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-Mar-2013 11:30:39 | Calib Date: | 28-Feb-2013 12:04:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 28-Feb-2013 12:43:17 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.663 | 7.655 | 0.008 | 99 | 1456337 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.922 | 9.922 | 0.0 | 87 | 262144 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.760 | 11.752 | 0.008 | 97 | 366991 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.105 | 7.105 | 0.0 | 62 | 728684 | 28.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.398 | 7.391 | 0.007 | 98 | 619981 | 28.1 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.850 | 8.849 | 0.001 | 93 | 3094854 | 28.3 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.794 | 10.787 | 0.007 | 86 | 992192 | 28.0 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.133 | 4.119 | 0.014 | 96 | 784563 | 27.2 | |
| 30 Ethylene oxide | 43 | 4.663 | 4.635 | 0.028 | 99 | 2170916 | 3576.1 | |
| 33 Dichlorofluoromethane | 67 | 4.901 | 4.887 | 0.014 | 82 | 1935986 | 28.2 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.152 | 5.138 | 0.014 | 81 | 973538 | 28.7 | |
| 38 Ethyl ether | 59 | 5.180 | 5.166 | 0.014 | 91 | 445321 | 28.1 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 82 | 1570576 | 28.3 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 96 | 3601071 | 1435.7 | |
| 44 Isopropyl alcohol | 45 | 5.431 | 5.417 | 0.014 | 95 | 344569 | 618.8 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.431 | 5.417 | 0.014 | 87 | 792960 | 29.0 | |
| 48 Methyl acetate | 43 | 5.641 | 5.641 | 0.0 | 98 | 967706 | 147.3 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 88 | 1404640 | 27.7 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 99 | 4149586 | 28.8 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 89 | 1573081 | 28.6 | |
| 56 Hexane | 57 | 6.204 | 6.197 | 0.007 | 90 | 1551510 | 28.3 | |
| 57 Vinyl acetate | 43 | 6.275 | 6.268 | 0.007 | 90 | 1216356 | 60.5 | |
| 61 Tert-butyl ethyl ether | 59 | 6.583 | 6.576 | 0.007 | 97 | 9613794 | 141.3 | |
| 63 Ethyl acetate | 43 | 6.697 | 6.697 | 0.0 | 97 | 549911 | 59.5 | |
| 71 Tetrahydrofuran | 42 | 7.005 | 7.005 | 0.0 | 87 | 145628 | 56.0 | |
| 74 Cyclohexane | 56 | 7.291 | 7.291 | 0.0 | 90 | 1962822 | 28.3 | |
| 65 sec-Butyl Alcohol | 45 | 7.477 | 7.477 | 0.0 | 33 | 610242 | 1114.2 | |
| 78 Tert-amyl methyl ether | 73 | 7.484 | 7.477 | 0.007 | 99 | 7611653 | 144.1 | |
| 82 2-Pentanone | 43 | 7.970 | 7.970 | 0.0 | 99 | 670262 | 109.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | 8.070 | 8.070 | 0.0 | 89 | 156529 | 58.1 | |
| 85 Methylcyclohexane | 55 | 8.156 | 8.156 | 0.0 | 89 | 1586255 | 28.2 | |
| 89 2-Nitropropane | 41 | 8.428 | 8.428 | 0.0 | 62 | 48680 | 28.3 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.435 | 8.435 | 0.0 | 94 | 191489 | 29.4 | |
| 94 Ethyl methacrylate | 69 | 8.978 | 8.978 | 0.0 | 88 | 957782 | 59.3 | |
| 101 Tetrahydrothiophene | 60 | 9.522 | 9.522 | 0.0 | 91 | 186230 | 29.5 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.659 | 10.659 | 0.001 | 52 | 57669 | 28.8 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.866 | 10.866 | 0.0 | 96 | 74939 | 28.2 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.781 | 11.781 | 0.0 | 99 | 3024378 | 28.5 | |

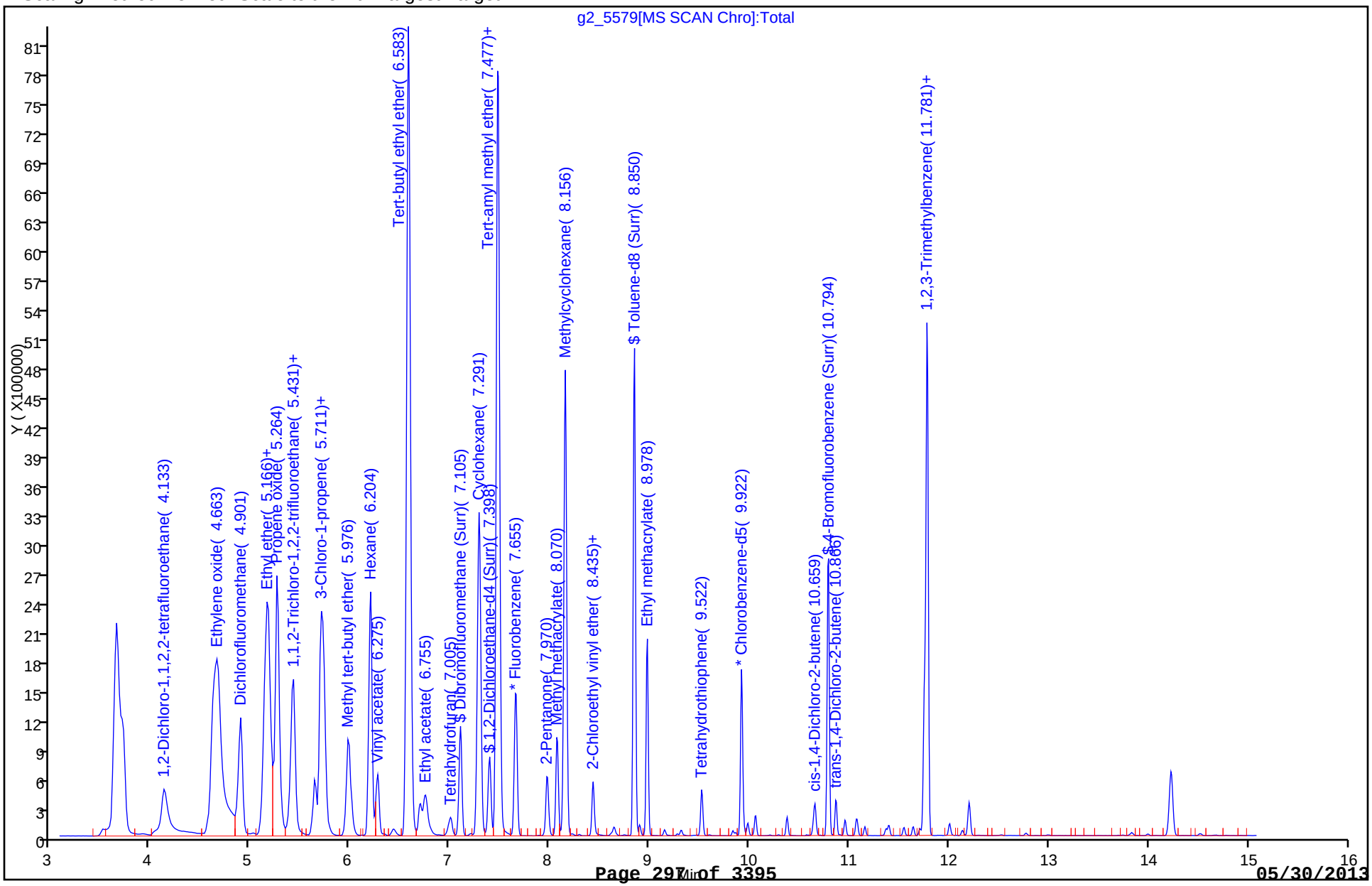
Report Date: 01-Mar-2013 11:30:39 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5579.D

| | | | |
|---|---|---|---|
| Injection Date: | 28-Feb-2013 11:46:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 20 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 28-Feb-2013 12:04:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | ic060 | | |
| Misc. Info.: | | | |
| Operator: | ilczyszynd | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 22 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 21 |
| Sublist: | chrom-AQ_VMSG2_8260*sub4 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-Mar-2013 11:30:37 | Calib Date: | 28-Feb-2013 12:04:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 28-Feb-2013 12:43:29 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.663 | 7.655 | 0.008 | 99 | 1590017 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.922 | 9.922 | 0.0 | 86 | 291839 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.753 | 11.752 | 0.0 | 94 | 403640 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.105 | 7.105 | 0.0 | 58 | 1561407 | 55.9 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.398 | 7.391 | 0.007 | 98 | 1328597 | 55.1 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.850 | 8.849 | 0.001 | 93 | 6638506 | 54.6 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.787 | 10.787 | 0.0 | 86 | 2183123 | 56.1 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.133 | 4.119 | 0.014 | 96 | 1630845 | 51.8 | |
| 30 Ethylene oxide | 43 | 4.663 | 4.635 | 0.028 | 99 | 3605219 | 5488.8 | |
| 33 Dichlorofluoromethane | 67 | 4.901 | 4.887 | 0.014 | 82 | 4002853 | 53.5 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.152 | 5.138 | 0.014 | 80 | 2049244 | 55.3 | |
| 38 Ethyl ether | 59 | 5.180 | 5.166 | 0.014 | 90 | 962640 | 55.7 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 82 | 3279945 | 54.1 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 96 | 7470684 | 2728.0 | |
| 44 Isopropyl alcohol | 45 | 5.431 | 5.417 | 0.014 | 99 | 718391 | 1190.9 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.431 | 5.417 | 0.014 | 86 | 1678087 | 56.2 | |
| 48 Methyl acetate | 43 | 5.641 | 5.641 | 0.0 | 98 | 1949575 | 271.7 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 88 | 2986922 | 54.0 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 99 | 8546774 | 54.3 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 89 | 3352616 | 55.7 | |
| 56 Hexane | 57 | 6.204 | 6.197 | 0.007 | 90 | 3313089 | 54.2 | |
| 57 Vinyl acetate | 43 | 6.275 | 6.268 | 0.007 | 90 | 2240696 | 102.0 | |
| 61 Tert-butyl ethyl ether | 59 | 6.583 | 6.576 | 0.007 | 95 | 18880363 | 254.2 | |
| 63 Ethyl acetate | 43 | 6.704 | 6.697 | 0.007 | 96 | 1153069 | 114.2 | |
| 71 Tetrahydrofuran | 42 | 7.005 | 7.005 | 0.0 | 86 | 312281 | 110.1 | |
| 74 Cyclohexane | 56 | 7.291 | 7.291 | 0.0 | 89 | 4117233 | 54.4 | |
| 65 sec-Butyl Alcohol | 45 | 7.477 | 7.477 | 0.0 | 40 | 1282755 | 2153.8 | |
| 78 Tert-amyl methyl ether | 73 | 7.484 | 7.477 | 0.007 | 98 | 15380037 | 266.7 | |
| 82 2-Pentanone | 43 | 7.977 | 7.970 | 0.007 | 99 | 1536661 | 229.7 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | 8.077 | 8.070 | 0.007 | 89 | 364094 | 123.8 | |
| 85 Methylcyclohexane | 55 | 8.156 | 8.156 | 0.0 | 89 | 3325711 | 54.2 | |
| 89 2-Nitropropane | 41 | 8.428 | 8.428 | 0.0 | 78 | 115669 | 60.9 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.435 | 8.435 | 0.0 | 94 | 444214 | 62.4 | |
| 94 Ethyl methacrylate | 69 | 8.978 | 8.978 | 0.0 | 88 | 2182427 | 121.6 | |
| 101 Tetrahydrothiophene | 60 | 9.522 | 9.522 | 0.0 | 92 | 423994 | 60.3 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.659 | 10.659 | 0.001 | 78 | 134575 | 61.1 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.866 | 10.866 | 0.0 | 94 | 177750 | 60.8 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.781 | 11.781 | 0.0 | 98 | 6714361 | 57.6 | |

Report Date: 01-Mar-2013 11:30:38 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D

| | | | |
|---|---|---|---|
| Injection Date: | 28-Feb-2013 12:04:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 21 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 171996

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2013 19:18 Calibration End Date: 04/30/2013 20:53 Calibration ID: 13824

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD01 280-171996/4 | g2_7665.D |
| Level 2 | STD02 280-171996/5 | g2_7666.D |
| Level 3 | STD05 280-171996/6 | g2_7667.D |
| Level 4 | ICIS 280-171996/7 | g2_7668.D |
| Level 5 | STD30 280-171996/8 | g2_7669.D |
| Level 6 | STD60 280-171996/9 | g2_7670.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4387<br>0.5279 | 0.5346 | 0.5223 | 0.5712 | 0.5459 | Ave | | 0.5234 | | | | 8.6 | | 15.0 | | | |
| Ethyl ether | 0.0966<br>0.1251 | 0.1221 | 0.1187 | 0.1327 | 0.1294 | Ave | | 0.1208 | | | | 11.0 | | 15.0 | | | |
| 2,2-Dichloro-1,1,1-trifluoroethane | 0.3559<br>0.4154 | 0.4153 | 0.4033 | 0.4450 | 0.4243 | Ave | | 0.4099 | | | | 7.3 | | 15.0 | | | |
| Propene oxide | 0.0155<br>0.0176 | 0.0186 | 0.0180 | 0.0202 | 0.0191 | Ave | | 0.0181 | | | | 8.7 | | 15.0 | | | |
| Isopropyl alcohol | 0.0033<br>0.0044 | 0.0041 | 0.0040 | 0.0045 | 0.0046 | Ave | | 0.0041 | | | | 12.0 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.1623<br>0.2086 | 0.1980 | 0.1970 | 0.2214 | 0.2112 | Ave | | 0.1998 | | | | 10.0 | | 15.0 | | | |
| Allyl chloride | 0.2718<br>0.3551 | 0.3342 | 0.3268 | 0.3746 | 0.3605 | Ave | | 0.3372 | | | | 11.0 | | 15.0 | | | |
| Carbon disulfide | 0.9426<br>1.1112 | 1.1063 | 1.0655 | 1.2145 | 1.1619 | Ave | | 1.1003 | | | | 8.4 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.3016<br>0.3956 | 0.3613 | 0.3580 | 0.4011 | 0.4057 | Ave | | 0.3706 | | | | 11.0 | | 15.0 | | | |
| Hexane | 2.1028<br>2.4524 | 2.4707 | 2.4374 | 2.7205 | 2.5235 | Ave | | 2.4512 | | | | 8.2 | | 15.0 | | | |
| Tert-butyl ethyl ether | 0.4336<br>0.4651 | 0.5209 | 0.5123 | 0.5722 | 0.5315 | Ave | | 0.5059 | | | | 9.8 | | 15.0 | | | |
| 2-Butanol | 0.0034<br>0.0053 | 0.0043 | 0.0042 | 0.0049 | 0.0052 | Lin2 | -0.063 | 0.0051 | | | | | | | 0.9960 | | 0.9900 |
| Tetrahydrofuran | 0.0175<br>0.0207 | 0.0190 | 0.0174 | 0.0208 | 0.0209 | Ave | | 0.0194 | | | | 8.4 | | 15.0 | | | |
| Cyclohexane | 0.4615<br>0.5558 | 0.5555 | 0.5501 | 0.6089 | 0.5760 | Ave | | 0.5513 | | | | 8.9 | | 15.0 | | | |
| Tert-amyl methyl ether | 0.3136<br>0.3761 | 0.3833 | 0.3848 | 0.4327 | 0.4155 | Ave | | 0.3843 | | | | 11.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 171996

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2013 19:18 Calibration End Date: 04/30/2013 20:53 Calibration ID: 13824

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Pentanone | 0.0494<br>0.0629 | 0.0599 | 0.0597 | 0.0658 | 0.0692 | Ave | | 0.0612 | | | | 11.0 | | 15.0 | | | |
| Methyl methacrylate | 0.0153<br>0.0248 | 0.0201 | 0.0205 | 0.0242 | 0.0249 | Lin2 | -0.019 | 0.0245 | | | | | | | 0.9970 | | 0.9900 |
| Methylcyclohexane | 0.3606<br>0.4352 | 0.4404 | 0.4433 | 0.4890 | 0.4585 | Ave | | 0.4378 | | | | 9.7 | | 15.0 | | | |
| 2-Nitropropane | +++++<br>0.0158 | 0.0131 | 0.0127 | 0.0150 | 0.0158 | Ave | | 0.0145 | | | | 10.0 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.0368<br>0.0674 | 0.0522 | 0.0552 | 0.0675 | 0.0674 | Lin2 | -0.031 | 0.0673 | | | | | | | 0.9970 | | 0.9900 |
| Ethyl methacrylate | 0.4453<br>0.7691 | 0.5762 | 0.6496 | 0.7611 | 0.7737 | Lin2 | -0.677 | 0.7669 | | | | | | | 0.9980 | | 0.9900 |
| cis-1,4-Dichloro-2-butene | +++++<br>0.0526 | 0.0426 | 0.0418 | 0.0503 | 0.0538 | Ave | | 0.0482 | | | | 12.0 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.0382<br>0.0713 | 0.0543 | 0.0543 | 0.0684 | 0.0706 | Lin2 | -0.032 | 0.0694 | | | | | | | 0.9940 | | 0.9900 |
| Dibromofluoromethane (Surr) | 0.1484<br>0.1925 | 0.1688 | 0.1681 | 0.2008 | 0.1900 | Ave | | 0.1781 | | | | 11.0 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.1333<br>0.1580 | 0.1516 | 0.1422 | 0.1682 | 0.1593 | Ave | | 0.1521 | | | | 8.3 | | 15.0 | | | |
| Toluene-d8 (Surr) | 3.9158<br>4.4886 | 4.3362 | 4.3078 | 5.0177 | 4.6511 | Ave | | 4.4529 | | | | 8.3 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 1.0001<br>1.0742 | 0.9951 | 0.9735 | 1.1643 | 1.1082 | Ave | | 1.0526 | | | | 7.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 171996

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2013 19:18 Calibration End Date: 04/30/2013 20:53 Calibration ID: 13824

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD01 280-171996/4 | g2_7665.D |
| Level 2 | STD02 280-171996/5 | g2_7666.D |
| Level 3 | STD05 280-171996/6 | g2_7667.D |
| Level 4 | ICIS 280-171996/7 | g2_7668.D |
| Level 5 | STD30 280-171996/8 | g2_7669.D |
| Level 6 | STD60 280-171996/9 | g2_7670.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 64093<br>4822137 | 153655 | 377608 | 831708 | 2403215 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Ethyl ether | FB | Ave | 14113<br>1142989 | 35083 | 85801 | 193289 | 569790 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2,2-Dichloro-1,1,1-trifluoroethane | FB | Ave | 52006<br>3794389 | 119343 | 291583 | 648055 | 1867793 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Propene oxide | FB | Ave | 113331<br>8034657 | 267025 | 649577 | 1467311 | 4200819 | 50.0<br>3000 | 100 | 250 | 500 | 1500 |
| Isopropyl alcohol | FB | Ave | 9594<br>807893 | 23374 | 57141 | 129805 | 407483 | 20.0<br>1200 | 40.0 | 100 | 200 | 600 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | FB | Ave | 23720<br>1905242 | 56907 | 142393 | 322453 | 929739 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Allyl chloride | FB | Ave | 39713<br>3243929 | 96039 | 236239 | 545467 | 1586904 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Carbon disulfide | FB | Ave | 137714<br>10150306 | 317951 | 770320 | 1768414 | 5114779 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Methyl tert-butyl ether | FB | Ave | 44064<br>3614049 | 103839 | 258818 | 584087 | 1785856 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Hexane | CBZ | Ave | 60432<br>4305117 | 138956 | 341761 | 769522 | 2165177 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Tert-butyl ethyl ether | FB | Ave | 316759<br>21243434 | 748460 | 1851743 | 4166294 | 11698900 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| 2-Butanol | FB | Lin2 | 18308<br>1759110 | 44749 | 111715 | 260611 | 841325 | 36.4<br>2185 | 72.8 | 182 | 364 | 1093 |
| Tetrahydrofuran | FB | Ave | 5114<br>377884 | 10930 | 25215 | 60510 | 183848 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Cyclohexane | FB | Ave | 67426<br>5076794 | 159639 | 397715 | 886581 | 2535795 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Tert-amyl methyl ether | FB | Ave | 229124<br>17175853 | 550731 | 1390869 | 3150106 | 9146179 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| 2-Pentanone | FB | Ave | 28882<br>2299715 | 68909 | 172758 | 383509 | 1217662 | 4.00<br>240 | 8.00 | 20.0 | 40.0 | 120 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 171996

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2013 19:18 Calibration End Date: 04/30/2013 20:53 Calibration ID: 13824

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Methyl methacrylate | FB | Lin2 | 4471<br>453785 | 11563 | 29600 | 70569 | 218826 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Methylcyclohexane | FB | Ave | 52687<br>3974933 | 126564 | 320498 | 711986 | 2018287 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2-Nitropropane | FB | Ave | +++++<br>144662 | 3776 | 9189 | 21775 | 69623 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2-Chloroethyl vinyl ether | FB | Lin2 | 5373<br>615485 | 14996 | 39913 | 98247 | 296562 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Ethyl methacrylate | CBZ | Lin2 | 25594<br>2700157 | 64810 | 182177 | 430543 | 1327717 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| cis-1,4-Dichloro-2-butene | DCB | Ave | +++++<br>118532 | 3038 | 7727 | 18002 | 58090 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| trans-1,4-Dichloro-2-butene | DCB | Lin2 | 1427<br>160586 | 3869 | 10038 | 24457 | 76217 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 21682<br>1758738 | 48518 | 121552 | 292412 | 836343 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 19479<br>1443140 | 43557 | 102784 | 244926 | 701346 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 112536<br>7879553 | 243876 | 604025 | 1419312 | 3990638 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 4-Bromofluorobenzene (Surr) | DCB | Ave | 37383<br>2420492 | 70902 | 179862 | 416467 | 1196037 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin2 = Linear 1/conc^2 ISTD |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7665.D
Lims ID: STD01 Client ID:
Inject. Date: 30-Apr-2013 19:18:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: STD01
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 12
Lims Batch ID: 171996 Lims Sample ID: 4
Sublist: chrom-AQ_VMSG2_8260*sub18
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m
Last Update: 30-Apr-2013 23:36:03 Calib Date: 30-Apr-2013 20:53:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPHEATHER

First Level Reviewer: dukesa Date: 30-Apr-2013 19:47:42

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1826341 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.908 | 0.0 | 85 | 359238 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.738 | 11.738 | 0.0 | 97 | 467225 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.090 | 7.091 | -0.001 | 45 | 21682 | 0.8332 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 89 | 19479 | 0.8766 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 89 | 112536 | 0.8794 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 76 | 37383 | 0.9502 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.104 | 4.105 | -0.001 | 79 | 26262 | 0.7905 | |
| 30 Ethylene oxide | 43 | 4.635 | 4.621 | 0.014 | 99 | 90066 | 118.5 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 63 | 64093 | 0.8381 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 70 | 33369 | 0.8398 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 51 | 14113 | 0.7998 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.166 | 5.180 | -0.014 | 64 | 52006 | 0.8684 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 94 | 113331 | 42.7 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.418 | -0.001 | 70 | 23720 | 0.8127 | |
| 44 Isopropyl alcohol | 45 | 5.403 | 5.418 | -0.015 | 1 | 9594 | 15.9 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 60 | 39713 | 0.8062 | |
| 50 Carbon disulfide | 76 | 5.711 | 5.725 | -0.014 | 96 | 137714 | 0.8566 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 83 | 44064 | 0.8139 | |
| 56 Hexane | 57 | 6.189 | 6.190 | -0.001 | 86 | 60432 | 0.8579 | |
| 61 Tert-butyl ethyl ether | 59 | 6.568 | 6.569 | -0.001 | 98 | 316759 | 4.29 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 78 | 18308 | 36.9 | |
| 71 Tetrahydrofuran | 42 | 6.983 | 6.991 | -0.007 | 70 | 5114 | 1.81 | |
| 74 Cyclohexane | 56 | 7.276 | 7.277 | -0.001 | 86 | 67426 | 0.8371 | |
| 78 Tert-amyl methyl ether | 73 | 7.469 | 7.470 | -0.001 | 97 | 229124 | 4.08 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 82 | 28882 | 3.23 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 72 | 4471 | 2.02 | |
| 85 Methylcyclohexane | 55 | 8.141 | 8.142 | -0.001 | 85 | 52687 | 0.8236 | |
| 89 2-Nitropropane | 41 | | 8.421 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.427 | 8.421 | 0.006 | 49 | 5373 | 1.01 | |
| 94 Ethyl methacrylate | 69 | 8.964 | 8.964 | 0.0 | 81 | 25594 | 2.04 | |
| 101 Tetrahydrothiophene | 60 | 9.514 | 9.515 | -0.001 | 1 | 1856 | 1.28 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | | 10.644 | | | | | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.851 | 10.859 | -0.008 | 1 | 1427 | 1.01 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.767 | 11.767 | 0.0 | 76 | 99564 | 0.8238 | |

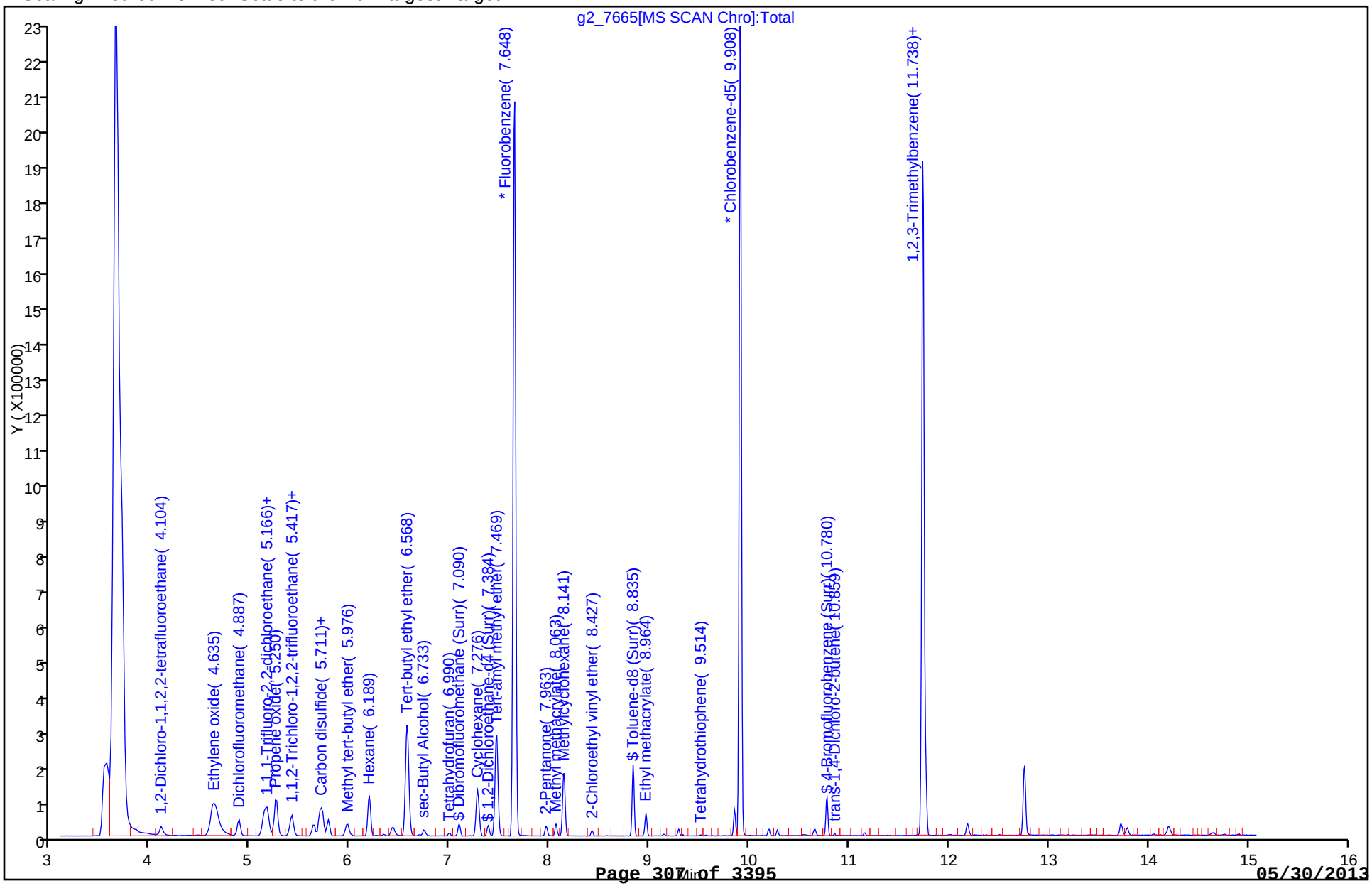
Report Date: 30-Apr-2013 23:36:04 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7665.D

| | | | |
|---|---|---|---|
| Injection Date: | 30-Apr-2013 19:18:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 4 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7666.D | | |
| Lims ID: | STD02 | Client ID: | |
| Inject. Date: | 30-Apr-2013 19:37:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | STD02 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 13 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 5 |
| Sublist: | chrom-AQ_VMSG2_8260*sub18 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m | | |
| Last Update: | 30-Apr-2013 23:36:04 | Calib Date: | 30-Apr-2013 20:53:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 30-Apr-2013 20:28:22 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1796215 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.908 | 0.0 | 86 | 351514 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.738 | 11.738 | 0.0 | 97 | 445303 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.090 | 7.091 | -0.001 | 51 | 48518 | 1.90 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 96 | 43557 | 1.99 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 92 | 243876 | 1.95 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 82 | 70902 | 1.89 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.105 | 4.105 | 0.0 | 82 | 60161 | 1.84 | |
| 30 Ethylene oxide | 43 | 4.635 | 4.621 | 0.014 | 99 | 204942 | 274.1 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 80 | 153655 | 2.04 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 75 | 81159 | 2.08 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 87 | 35083 | 2.02 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.166 | 5.180 | -0.014 | 74 | 119343 | 2.03 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 96 | 267025 | 102.4 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.418 | -0.001 | 83 | 56907 | 1.98 | |
| 44 Isopropyl alcohol | 45 | 5.417 | 5.418 | -0.001 | 29 | 23374 | 39.3 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 64 | 96039 | 1.98 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 97 | 317951 | 2.01 | |
| 54 Methyl tert-butyl ether | 73 | 5.962 | 5.976 | -0.014 | 85 | 103839 | 1.95 | |
| 56 Hexane | 57 | 6.190 | 6.190 | 0.0 | 89 | 138956 | 2.02 | |
| 61 Tert-butyl ethyl ether | 59 | 6.568 | 6.569 | -0.001 | 99 | 748460 | 10.3 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 95 | 44749 | 73.4 | |
| 71 Tetrahydrofuran | 42 | 6.990 | 6.991 | 0.0 | 76 | 10930 | 3.92 | |
| 74 Cyclohexane | 56 | 7.276 | 7.277 | -0.001 | 88 | 159639 | 2.02 | |
| 78 Tert-amyl methyl ether | 73 | 7.462 | 7.470 | -0.008 | 98 | 550731 | 9.97 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 84 | 68909 | 7.84 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 84 | 11563 | 4.05 | |
| 85 Methylcyclohexane | 55 | 8.142 | 8.142 | 0.0 | 88 | 126564 | 2.01 | |
| 89 2-Nitropropane | 41 | 8.413 | 8.421 | -0.008 | 54 | 3776 | 1.81 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.420 | 8.421 | -0.001 | 77 | 14996 | 2.01 | |
| 94 Ethyl methacrylate | 69 | 8.964 | 8.964 | 0.0 | 86 | 64810 | 3.89 | |
| 101 Tetrahydrothiophene | 60 | 9.507 | 9.515 | -0.008 | 27 | 4431 | 1.88 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.644 | 10.644 | 0.0 | 45 | 3038 | 1.77 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.851 | 10.859 | -0.008 | 30 | 3869 | 2.03 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.767 | 11.767 | 0.0 | 92 | 228568 | 1.98 | |

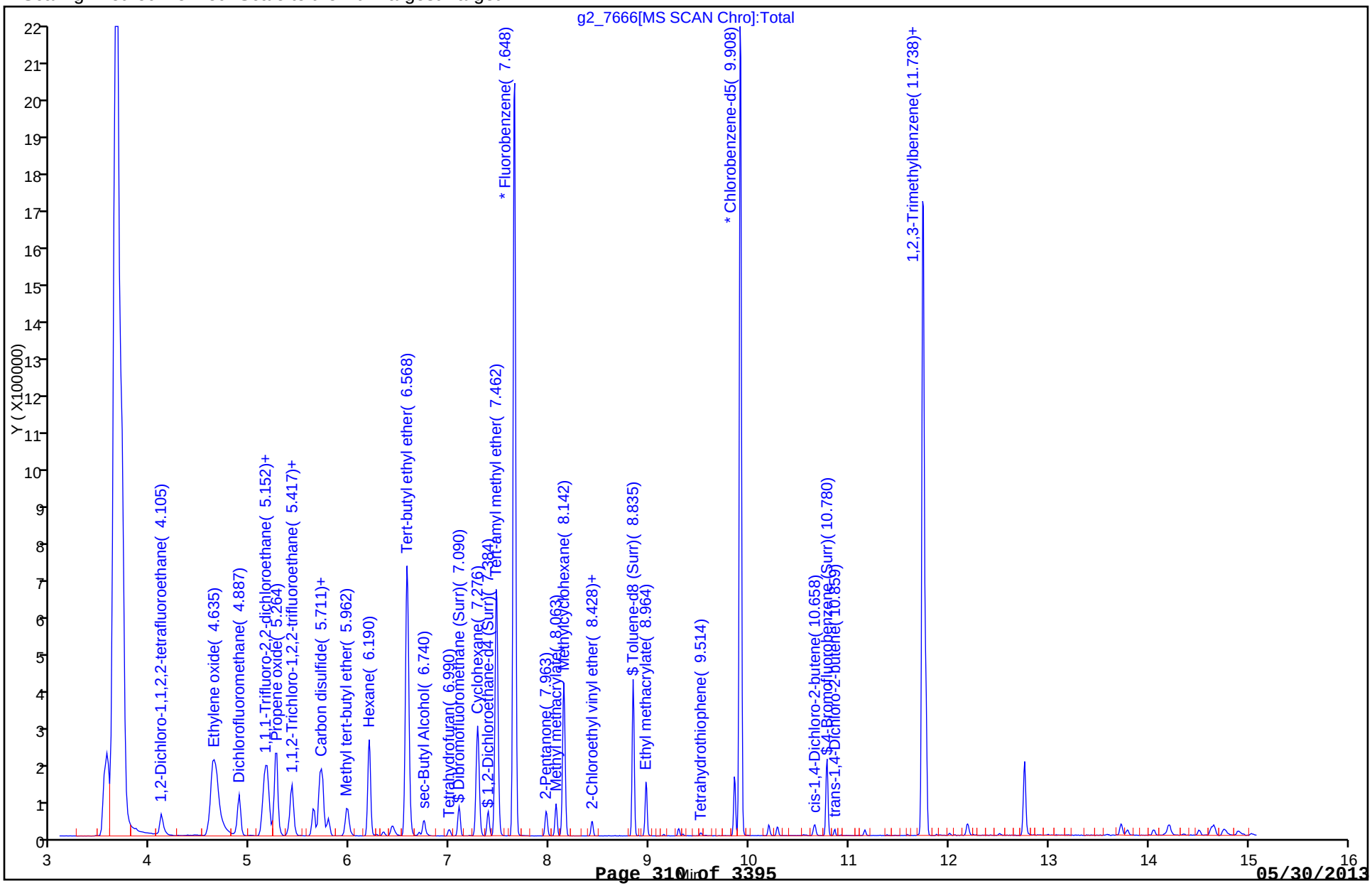
Report Date: 30-Apr-2013 23:36:05 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7666.D

| | | | |
|---|---|---|---|
| Injection Date: | 30-Apr-2013 19:37:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 5 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7667.D | | |
| Lims ID: | STD05 | Client ID: | |
| Inject. Date: | 30-Apr-2013 19:56:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | STD05 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 14 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 6 |
| Sublist: | chrom-AQ_VMSG2_8260*sub18 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m | | |
| Last Update: | 30-Apr-2013 23:36:06 | Calib Date: | 30-Apr-2013 20:53:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 30-Apr-2013 20:28:42 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1807446 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.908 | 0.0 | 85 | 350541 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.738 | 0.007 | 96 | 461882 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.090 | 7.091 | -0.001 | 56 | 121552 | 4.72 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 100 | 102784 | 4.67 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 92 | 604025 | 4.84 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 83 | 179862 | 4.62 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.104 | 4.105 | -0.001 | 94 | 156654 | 4.76 | |
| 30 Ethylene oxide | 43 | 4.635 | 4.621 | 0.014 | 99 | 490061 | 651.4 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 82 | 377608 | 4.99 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 78 | 194544 | 4.95 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 88 | 85801 | 4.91 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 83 | 291583 | 4.92 | |
| 39 Propene oxide | 58 | 5.250 | 5.264 | -0.014 | 96 | 649577 | 247.5 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.418 | -0.001 | 87 | 142393 | 4.93 | |
| 44 Isopropyl alcohol | 45 | 5.403 | 5.418 | -0.015 | 35 | 57141 | 95.6 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 65 | 236239 | 4.85 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 98 | 770320 | 4.84 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 88 | 258818 | 4.83 | |
| 56 Hexane | 57 | 6.189 | 6.190 | -0.001 | 90 | 341761 | 4.97 | |
| 61 Tert-butyl ethyl ether | 59 | 6.568 | 6.569 | -0.001 | 98 | 1851743 | 25.3 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 97 | 111715 | 163.8 | |
| 71 Tetrahydrofuran | 42 | 6.990 | 6.991 | 0.0 | 81 | 25215 | 9.00 | |
| 74 Cyclohexane | 56 | 7.276 | 7.277 | -0.001 | 89 | 397715 | 4.99 | |
| 78 Tert-amyl methyl ether | 73 | 7.469 | 7.470 | -0.001 | 99 | 1390869 | 25.0 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 89 | 172758 | 19.5 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 88 | 29600 | 9.11 | |
| 85 Methylcyclohexane | 55 | 8.141 | 8.142 | -0.001 | 88 | 320498 | 5.06 | |
| 89 2-Nitropropane | 41 | 8.413 | 8.421 | -0.008 | 53 | 9189 | 4.39 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.427 | 8.421 | 0.006 | 85 | 39913 | 4.56 | |
| 94 Ethyl methacrylate | 69 | 8.964 | 8.964 | 0.0 | 88 | 182177 | 9.35 | |
| 101 Tetrahydrothiophene | 60 | 9.514 | 9.515 | -0.001 | 66 | 14341 | 4.14 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.644 | 10.644 | 0.0 | 50 | 7727 | 4.33 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.859 | 10.859 | 0.0 | 67 | 10038 | 4.38 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.767 | 11.767 | 0.0 | 98 | 591271 | 4.95 | |

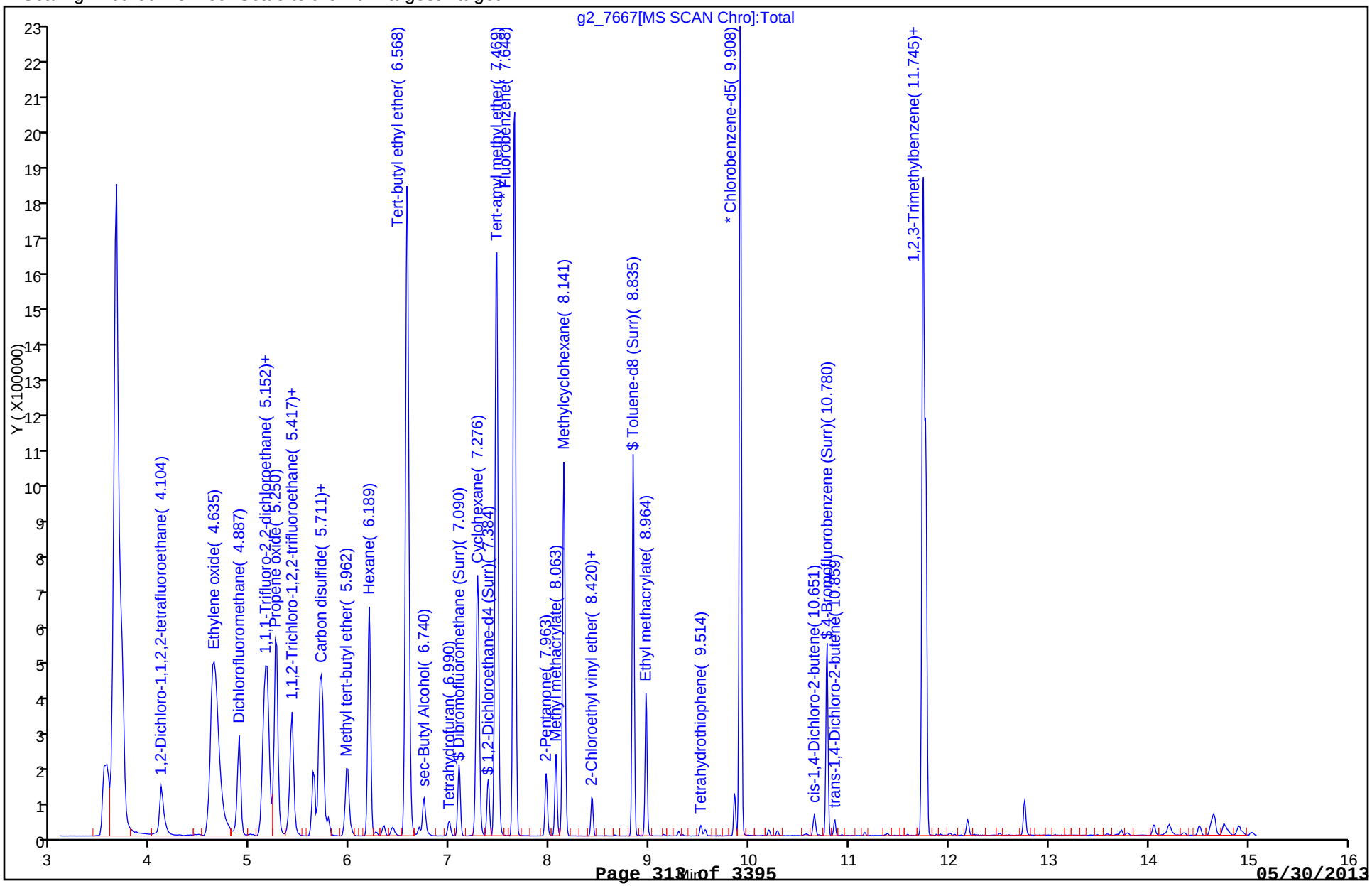
Report Date: 30-Apr-2013 23:36:06 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7667.D

| | | | |
|---|---|---|---|
| Injection Date: | 30-Apr-2013 19:56:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 6 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7668.D | | |
| Lims ID: | ICIS | Client ID: | |
| Inject. Date: | 30-Apr-2013 20:15:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICIS | Calib Level: | 5 |
| Sample ID: | ICIS | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 15 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 7 |
| Sublist: | chrom-AQ_VMSG2_8260*sub18 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m | | |
| Last Update: | 30-Apr-2013 23:36:07 | Calib Date: | 30-Apr-2013 20:53:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 30-Apr-2013 20:39:06 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1820175 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.908 | 0.0 | 85 | 353573 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.738 | 11.738 | 0.0 | 96 | 447117 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.091 | 7.091 | 0.0 | 58 | 292412 | 11.3 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 100 | 244926 | 11.1 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 93 | 1419312 | 11.3 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 85 | 416467 | 11.1 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.105 | 4.105 | 0.0 | 93 | 386671 | 11.7 | |
| 30 Ethylene oxide | 43 | 4.621 | 4.621 | 0.0 | 99 | 1093258 | 1443.0 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 83 | 831708 | 10.9 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 80 | 426493 | 10.8 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 90 | 193289 | 11.0 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 87 | 648055 | 10.9 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 96 | 1467311 | 555.2 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.418 | 5.418 | 0.0 | 87 | 322453 | 11.1 | |
| 44 Isopropyl alcohol | 45 | 5.418 | 5.418 | 0.0 | 41 | 129805 | 215.6 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 69 | 545467 | 11.1 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 98 | 1768414 | 11.0 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 89 | 584087 | 10.8 | |
| 56 Hexane | 57 | 6.190 | 6.190 | 0.0 | 90 | 769522 | 11.1 | |
| 61 Tert-butyl ethyl ether | 59 | 6.569 | 6.569 | 0.0 | 98 | 4166294 | 56.6 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 98 | 260611 | 363.0 | |
| 71 Tetrahydrofuran | 42 | 6.991 | 6.991 | 0.0 | 86 | 60510 | 21.4 | |
| 74 Cyclohexane | 56 | 7.277 | 7.277 | 0.0 | 89 | 886581 | 11.0 | |
| 78 Tert-amyl methyl ether | 73 | 7.470 | 7.470 | 0.0 | 99 | 3150106 | 56.3 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 99 | 383509 | 43.1 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 88 | 70569 | 20.5 | |
| 85 Methylcyclohexane | 55 | 8.142 | 8.142 | 0.0 | 89 | 711986 | 11.2 | |
| 89 2-Nitropropane | 41 | 8.421 | 8.421 | 0.0 | 51 | 21775 | 10.3 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.421 | 8.421 | 0.0 | 92 | 98247 | 10.5 | |
| 94 Ethyl methacrylate | 69 | 8.964 | 8.964 | 0.0 | 89 | 430543 | 20.7 | |
| 101 Tetrahydrothiophene | 60 | 9.515 | 9.515 | 0.0 | 84 | 37606 | 9.36 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.644 | 10.644 | 0.0 | 37 | 18002 | 10.4 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.859 | 10.859 | 0.0 | 82 | 24457 | 10.3 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.767 | 11.767 | 0.0 | 98 | 1294579 | 11.2 | |

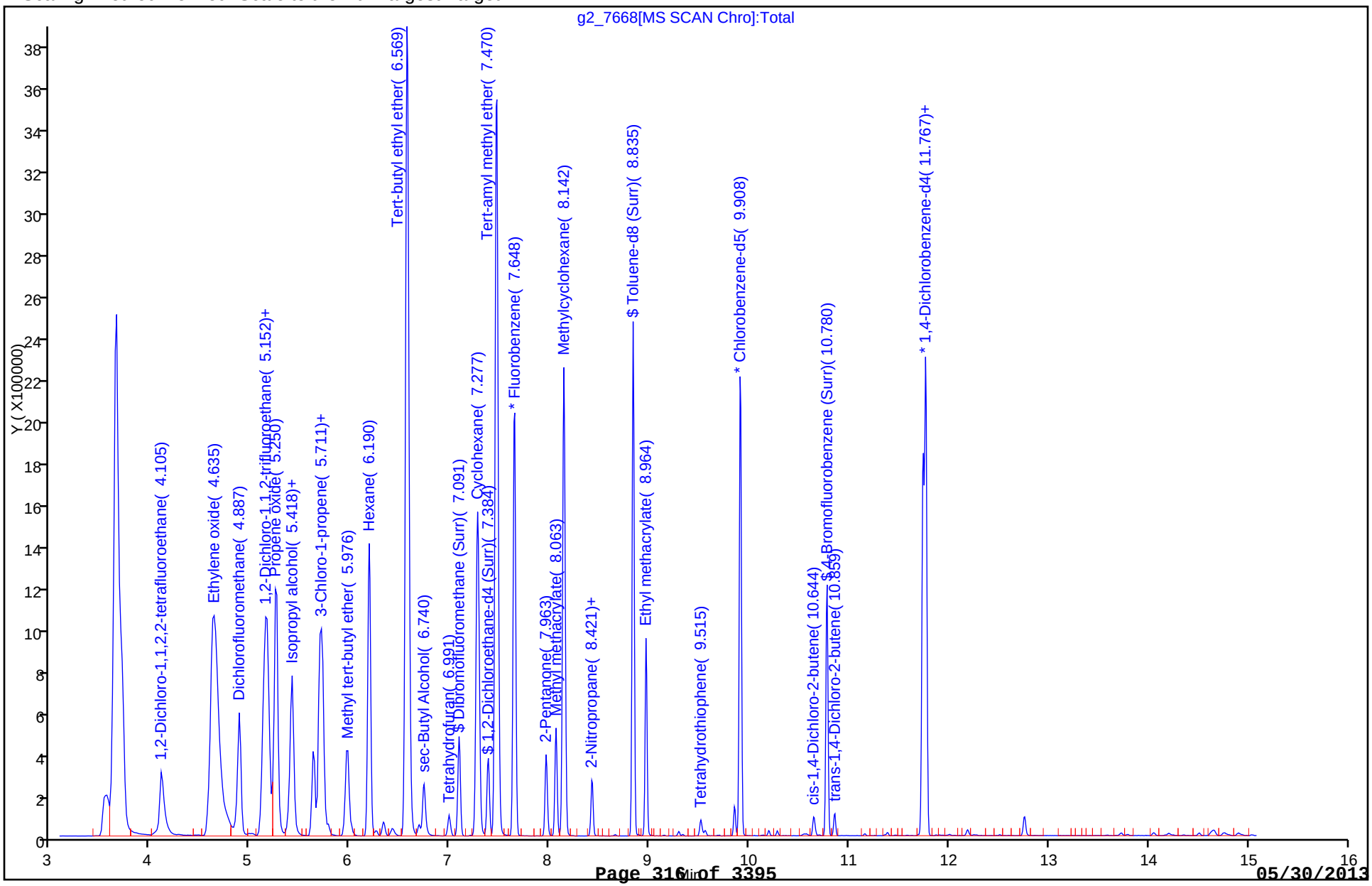
Report Date: 30-Apr-2013 23:36:07 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7668.D

| | | | |
|---|---|---|---|
| Injection Date: | 30-Apr-2013 20:15:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 7 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7669.D | | |
| Lims ID: | STD30 | Client ID: | |
| Inject. Date: | 30-Apr-2013 20:34:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | STD30 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 16 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 8 |
| Sublist: | chrom-AQ_VMSG2_8260*sub18 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m | | |
| Last Update: | 30-Apr-2013 23:36:08 | Calib Date: | 30-Apr-2013 20:53:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 30-Apr-2013 20:54:08 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1834207 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.908 | 0.0 | 85 | 357500 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.738 | 11.738 | 0.0 | 97 | 449677 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.090 | 7.091 | -0.001 | 75 | 836343 | 32.0 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 100 | 701346 | 31.4 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 93 | 3990638 | 31.3 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 86 | 1196037 | 31.6 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.105 | 4.105 | 0.0 | 96 | 1101380 | 33.0 | |
| 30 Ethylene oxide | 43 | 4.635 | 4.621 | 0.014 | 100 | 2749112 | 3600.8 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 83 | 2403215 | 31.3 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 86 | 1234777 | 30.9 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 90 | 569790 | 32.2 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 85 | 1867793 | 31.1 | |
| 39 Propene oxide | 58 | 5.250 | 5.264 | -0.014 | 96 | 4200819 | 1577.4 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.418 | -0.001 | 88 | 929739 | 31.7 | |
| 44 Isopropyl alcohol | 45 | 5.417 | 5.418 | -0.001 | 91 | 407483 | 671.6 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 82 | 1586904 | 32.1 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 98 | 5114779 | 31.7 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 89 | 1785856 | 32.8 | |
| 56 Hexane | 57 | 6.190 | 6.190 | 0.0 | 90 | 2165177 | 30.9 | |
| 61 Tert-butyl ethyl ether | 59 | 6.569 | 6.569 | 0.0 | 97 | 11698900 | 157.6 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 98 | 841325 | 1135.7 | |
| 71 Tetrahydrofuran | 42 | 6.990 | 6.991 | 0.0 | 87 | 183848 | 64.6 | |
| 74 Cyclohexane | 56 | 7.276 | 7.277 | -0.001 | 88 | 2535795 | 31.3 | |
| 78 Tert-amyl methyl ether | 73 | 7.469 | 7.470 | -0.001 | 99 | 9146179 | 162.2 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 99 | 1217662 | 135.7 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 88 | 218826 | 61.5 | |
| 85 Methylcyclohexane | 55 | 8.142 | 8.142 | 0.0 | 88 | 2018287 | 31.4 | |
| 89 2-Nitropropane | 41 | 8.413 | 8.421 | -0.008 | 85 | 69623 | 32.7 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.420 | 8.421 | -0.001 | 92 | 296562 | 30.5 | |
| 94 Ethyl methacrylate | 69 | 8.964 | 8.964 | 0.0 | 89 | 1327717 | 61.4 | |
| 101 Tetrahydrothiophene | 60 | 9.514 | 9.515 | -0.001 | 91 | 128646 | 29.6 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.644 | 10.644 | 0.0 | 1 | 58090 | 33.5 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.852 | 10.859 | -0.007 | 91 | 76217 | 31.0 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.767 | 11.767 | 0.0 | 98 | 3720812 | 32.0 | |

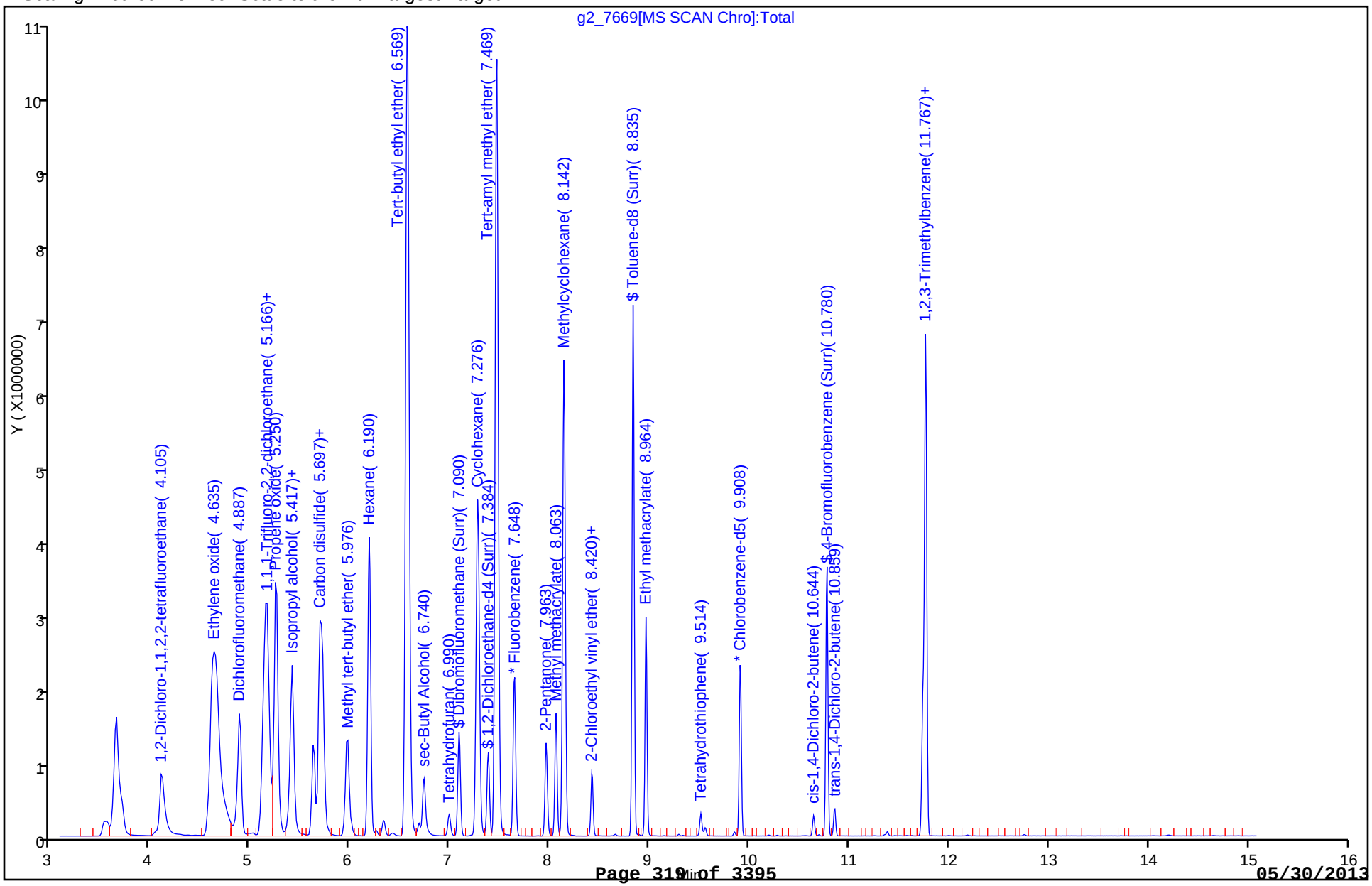
Report Date: 30-Apr-2013 23:36:08 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7669.D

| | | | |
|---|---|---|---|
| Injection Date: | 30-Apr-2013 20:34:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 8 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D | | |
| Lims ID: | STD60 | Client ID: | |
| Inject. Date: | 30-Apr-2013 20:53:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | STD60 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 17 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 9 |
| Sublist: | chrom-AQ_VMSG2_8260*sub18 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m | | |
| Last Update: | 30-Apr-2013 23:36:09 | Calib Date: | 30-Apr-2013 20:53:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1903024 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.908 | 0.0 | 85 | 365717 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.738 | 11.738 | 0.0 | 93 | 469453 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.091 | 7.091 | 0.0 | 59 | 1758738 | 64.9 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 100 | 1443140 | 62.3 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 92 | 7879553 | 60.5 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 87 | 2420492 | 61.2 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.105 | 4.105 | 0.0 | 96 | 2217701 | 64.1 | |
| 30 Ethylene oxide | 43 | 4.649 | 4.621 | 0.028 | 100 | 4746386 | 5992.0 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 82 | 4822137 | 60.5 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 84 | 2542820 | 61.4 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 90 | 1142989 | 62.2 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 85 | 3794389 | 60.8 | |
| 39 Propene oxide | 58 | 5.250 | 5.264 | -0.014 | 96 | 8034657 | 2907.8 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.418 | 5.418 | 0.0 | 88 | 1905242 | 62.6 | |
| 44 Isopropyl alcohol | 45 | 5.418 | 5.418 | 0.0 | 68 | 807893 | 1283.4 | |
| 49 3-Chloro-1-propene | 41 | 5.683 | 5.697 | -0.014 | 83 | 3243929 | 63.2 | |
| 50 Carbon disulfide | 76 | 5.711 | 5.725 | -0.014 | 98 | 10150306 | 60.6 | |
| 54 Methyl tert-butyl ether | 73 | 5.962 | 5.976 | -0.014 | 90 | 3614049 | 64.1 | |
| 56 Hexane | 57 | 6.190 | 6.190 | 0.0 | 89 | 4305117 | 60.0 | |
| 61 Tert-butyl ethyl ether | 59 | 6.569 | 6.569 | 0.0 | 94 | 21243434 | 275.8 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 97 | 1759110 | 2276.3 | |
| 71 Tetrahydrofuran | 42 | 6.990 | 6.991 | 0.0 | 88 | 377884 | 128.1 | |
| 74 Cyclohexane | 56 | 7.277 | 7.277 | -0.001 | 88 | 5076794 | 60.5 | |
| 78 Tert-amyl methyl ether | 73 | 7.470 | 7.470 | 0.0 | 97 | 17175853 | 293.6 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 99 | 2299715 | 246.9 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 88 | 453785 | 122.2 | |
| 85 Methylcyclohexane | 55 | 8.142 | 8.142 | 0.0 | 88 | 3974933 | 59.6 | |
| 89 2-Nitropropane | 41 | 8.421 | 8.421 | 0.0 | 97 | 144662 | 65.6 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.421 | 8.421 | 0.0 | 93 | 615485 | 60.5 | |
| 94 Ethyl methacrylate | 69 | 8.964 | 8.964 | 0.0 | 88 | 2700157 | 121.2 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.515 | 9.515 | 0.0 | 92 | 278886 | 61.7 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.644 | 10.644 | 0.0 | 42 | 118532 | 65.4 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.852 | 10.859 | -0.007 | 91 | 160586 | 62.0 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.767 | 11.767 | 0.0 | 98 | 7349815 | 60.5 | |

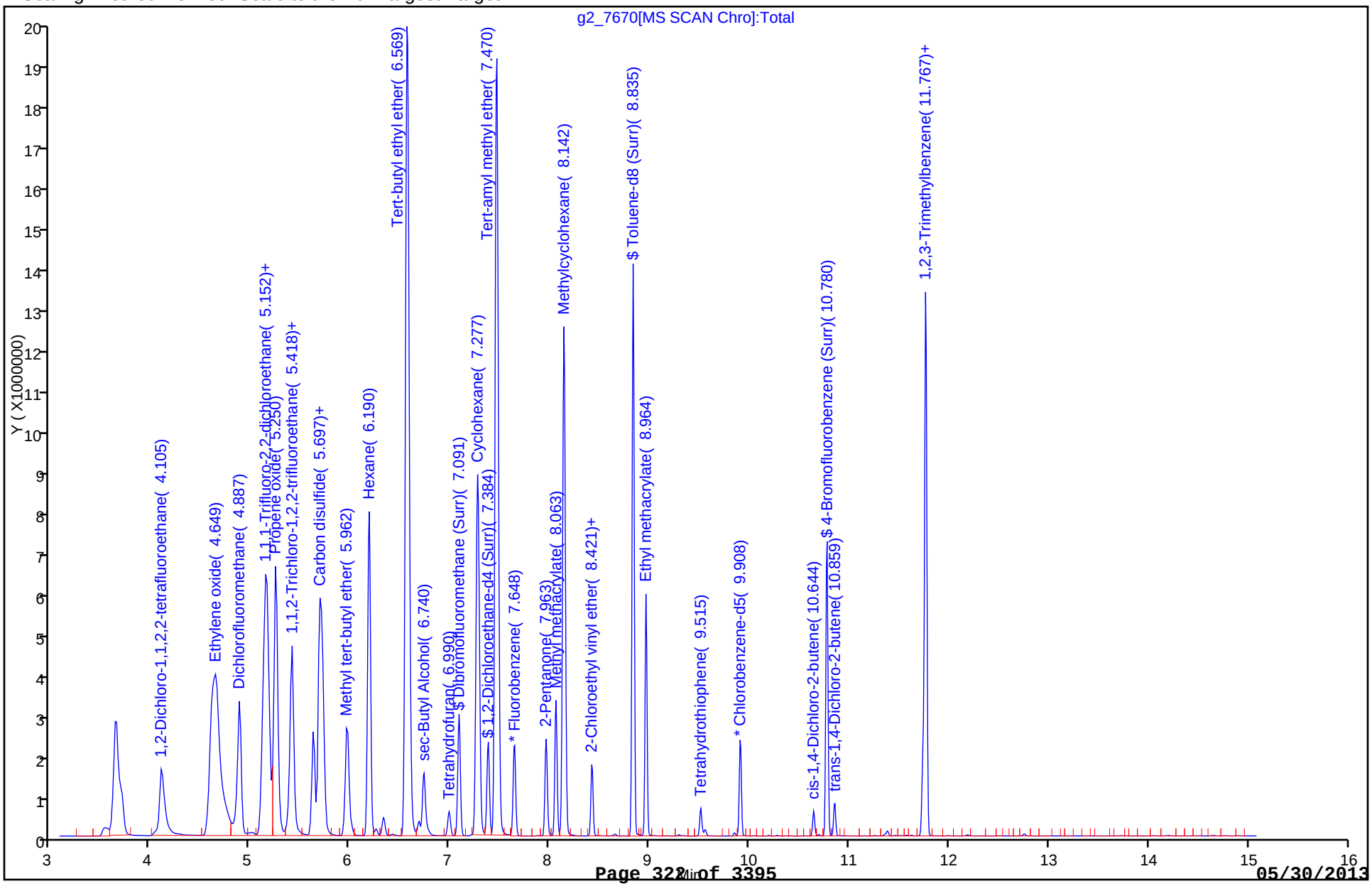
Report Date: 30-Apr-2013 23:36:09 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D

| | | | |
|---|---|---|---|
| Injection Date: | 30-Apr-2013 20:53:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 9 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD001 280-173584/2 | g2_8118.D |
| Level 2 | STD002 280-173584/5 | g2_8119.D |
| Level 3 | STD005 280-173584/6 | g2_8120.D |
| Level 4 | STD010 280-173584/7 | g2_8121.D |
| Level 5 | STD020 280-173584/8 | g2_8122.D |
| Level 6 | STD050 280-173584/9 | g2_8123.D |
| Level 7 | STD100 280-173584/10 | g2_8124.D |
| Level 8 | STD200 280-173584/11 | g2_8125.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | +++++ 0.3097 | +++++ 0.2953 | 0.2064 0.2762 | 0.2081 | 0.2271 | Lin1 | -0.545 | 0.2888 | | | | | | | 0.9950 | | 0.9900 |
| Chloromethane | 0.2028 0.3337 | 0.2667 0.3111 | 0.2650 0.2995 | 0.2609 | 0.2789 | Ave | | 0.2773 | | | 0.1000 | 14.0 | | 15.0 | | | |
| Vinyl chloride | +++++ 0.3351 | 0.2596 0.3148 | 0.2629 0.3019 | 0.2650 | 0.2880 | Ave | | 0.2896 | | | | 10.0 | | 30.0 | | | |
| Bromomethane | +++++ 0.2456 | +++++ 0.2395 | 0.1900 0.2451 | 0.2042 | 0.2182 | Ave | | 0.2238 | | | | 10.0 | | 15.0 | | | |
| Chloroethane | +++++ 0.2117 | +++++ 0.1982 | 0.1692 0.1930 | 0.1696 | 0.1878 | Ave | | 0.1882 | | | | 8.8 | | 15.0 | | | |
| Ethanol | +++++ 0.0025 | +++++ 0.0030 | 0.0030 0.0028 | 0.0022 | 0.0028 | Ave | | 0.0027 | | | | 11.0 | | 15.0 | | | |
| Trichlorofluoromethane | +++++ 0.3818 | +++++ 0.3690 | 0.3228 0.3530 | 0.3260 | 0.3465 | Ave | | 0.3498 | | | | 6.7 | | 15.0 | | | |
| Acrolein | 0.0278 0.0334 | 0.0285 0.0325 | 0.0284 0.0314 | 0.0285 | 0.0331 | Ave | | 0.0305 | | | | 7.8 | | 15.0 | | | |
| Acetone | +++++ 0.0859 | 0.1075 0.0905 | 0.0878 0.0849 | 0.0858 | 0.0936 | Ave | | 0.0909 | | | | 8.8 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.1297 0.2303 | 0.1922 0.2209 | 0.2013 0.2156 | 0.1929 | 0.2214 | Lin2 | -0.086 | 0.2208 | | | | | | | 0.9970 | | 0.9900 |
| Iodomethane | 0.2297 0.3473 | 0.2901 0.3344 | 0.3037 0.3272 | 0.3007 | 0.3091 | Ave | | 0.3053 | | | | 12.0 | | 15.0 | | | |
| Acetonitrile | 0.0299 0.0261 | 0.0305 0.0312 | 0.0278 0.0287 | 0.0277 | 0.0334 | Ave | | 0.0294 | | | | 7.9 | | 15.0 | | | |
| 2-Methyl-2-propanol | 0.0292 0.0302 | 0.0268 0.0345 | 0.0266 0.0318 | 0.0280 | 0.0342 | Ave | | 0.0302 | | | | 10.0 | | 15.0 | | | |
| Methylene Chloride | +++++ 0.2989 | +++++ 0.2810 | 0.3953 0.2738 | 0.3281 | 0.2989 | Ave | | 0.3127 | | | | 14.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Acrylonitrile | 0.0864<br>0.0986 | 0.0895<br>0.0991 | 0.0872<br>0.0933 | 0.0891 | 0.1023 | Ave | | 0.0932 | | | | 6.6 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.1929<br>0.3152 | 0.2723<br>0.2997 | 0.2648<br>0.2953 | 0.2758 | 0.2984 | Ave | | 0.2768 | | | | 14.0 | | 15.0 | | | |
| Isopropyl ether | 0.1621<br>0.2378 | 0.1961<br>0.2309 | 0.2021<br>0.2259 | 0.2032 | 0.2090 | Ave | | 0.2084 | | | | 12.0 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.3058<br>0.4751 | 0.4185<br>0.4679 | 0.4203<br>0.4498 | 0.4274 | 0.4471 | Ave | | 0.4265 | | | 0.1000 | 12.0 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | +++++<br>0.3889 | +++++<br>0.3795 | 0.3332<br>0.3660 | 0.3274 | 0.3681 | Ave | | 0.3605 | | | | 6.9 | | 15.0 | | | |
| 2-Butanone (MEK) | 0.1337<br>0.1312 | 0.1173<br>0.1316 | 0.1123<br>0.1267 | 0.1168 | 0.1301 | Ave | | 0.1250 | | | | 6.6 | | 15.0 | | | |
| Propionitrile | 0.0320<br>0.0366 | 0.0319<br>0.0385 | 0.0326<br>0.0361 | 0.0343 | 0.0395 | Ave | | 0.0352 | | | | 8.4 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.1965<br>0.2887 | 0.2477<br>0.2855 | 0.2629<br>0.2767 | 0.2501 | 0.2689 | Ave | | 0.2596 | | | | 11.0 | | 15.0 | | | |
| 2,2-Dichloropropane | +++++<br>0.3473 | +++++<br>0.3421 | 0.2671<br>0.3325 | 0.2756 | 0.3094 | Ave | | 0.3123 | | | | 11.0 | | 15.0 | | | |
| Methacrylonitrile | 0.1390<br>0.1641 | 0.1343<br>0.1601 | 0.1420<br>0.1456 | 0.1445 | 0.1594 | Ave | | 0.1486 | | | | 7.4 | | 15.0 | | | |
| Chlorobromomethane | 0.0873<br>0.1352 | 0.1215<br>0.1312 | 0.1181<br>0.1315 | 0.1182 | 0.1199 | Ave | | 0.1204 | | | | 12.0 | | 15.0 | | | |
| Chloroform | 0.3139<br>0.4435 | 0.4022<br>0.4362 | 0.4015<br>0.4208 | 0.3997 | 0.4164 | Ave | | 0.4043 | | | | 9.9 | | 30.0 | | | |
| Isobutyl alcohol | 0.0091<br>0.0105 | 0.0094<br>0.0114 | 0.0092<br>0.0106 | 0.0098 | 0.0115 | Ave | | 0.0102 | | | | 9.2 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2231<br>0.3724 | 0.2994<br>0.3595 | 0.3126<br>0.3503 | 0.3154 | 0.3439 | Ave | | 0.3221 | | | | 15.0 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.2370<br>0.3844 | 0.3380<br>0.3793 | 0.3471<br>0.3652 | 0.3418 | 0.3731 | Ave | | 0.3458 | | | | 14.0 | | 15.0 | | | |
| Carbon tetrachloride | +++++<br>0.3030 | 0.2381<br>0.2974 | 0.2575<br>0.2925 | 0.2535 | 0.2785 | Ave | | 0.2744 | | | | 9.1 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.2641<br>0.3538 | 0.3235<br>0.3446 | 0.3254<br>0.3286 | 0.3207 | 0.3169 | Ave | | 0.3222 | | | | 8.3 | | 15.0 | | | |
| Benzene | 0.6908<br>1.0626 | 0.9537<br>1.0426 | 0.9801<br>0.9919 | 0.9451 | 0.9869 | Ave | | 0.9567 | | | | 12.0 | | 15.0 | | | |
| Trichloroethene | 0.1748<br>0.2596 | 0.2213<br>0.2640 | 0.2346<br>0.2565 | 0.2230 | 0.2422 | Ave | | 0.2345 | | | | 12.0 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.1858<br>0.2675 | 0.2293<br>0.2685 | 0.2344<br>0.2611 | 0.2317 | 0.2393 | Ave | | 0.2397 | | | | 11.0 | | 30.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.0018<br>0.0024 | 0.0020<br>0.0024 | 0.0023<br>0.0023 | 0.0020 | 0.0027 | Ave | | 0.0022 | | | | 13.0 | | 15.0 | | | |
| Dibromomethane | 0.1146<br>0.1519 | 0.1281<br>0.1558 | 0.1330<br>0.1500 | 0.1348 | 0.1332 | Ave | | 0.1377 | | | | 10.0 | | 15.0 | | | |
| Dichlorobromomethane | +++++<br>0.3241 | +++++<br>0.3247 | 0.2624<br>0.3192 | 0.2702 | 0.2750 | Ave | | 0.2959 | | | | 10.0 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 1.0833<br>1.8111 | 1.3418<br>1.8311 | 1.4435<br>1.7624 | 1.4833 | 1.5260 | Lin2 | -0.656 | 1.6898 | | | | | | | 0.9930 | | 0.9900 |
| 4-Methyl-2-pentanone (MIBK) | 0.2202<br>0.2781 | 0.2204<br>0.2797 | 0.2259<br>0.2596 | 0.2423 | 0.2609 | Ave | | 0.2484 | | | | 9.9 | | 15.0 | | | |
| Toluene | 0.7286<br>1.1064 | 0.9682<br>1.1098 | 1.0169<br>1.0362 | 1.0130 | 1.0580 | Ave | | 1.0046 | | | | 12.0 | | 30.0 | | | |
| trans-1,3-Dichloropropene | 0.2038<br>0.3574 | 0.2407<br>0.3713 | 0.2725<br>0.3613 | 0.2924 | 0.2939 | Lin1 | -0.264 | 0.3614 | | | | | | | 0.9980 | | 0.9900 |
| 1,1,2-Trichloroethane | 0.1691<br>0.2198 | 0.1951<br>0.2239 | 0.1993<br>0.2153 | 0.1957 | 0.1938 | Ave | | 0.2015 | | | | 8.8 | | 15.0 | | | |
| 2-Hexanone | 0.6802<br>0.9035 | 0.6665<br>0.8904 | 0.7224<br>0.8207 | 0.7564 | 0.8499 | Ave | | 0.7863 | | | | 12.0 | | 15.0 | | | |
| 1,3-Dichloropropane | 1.3398<br>1.7649 | 1.5405<br>1.7677 | 1.5182<br>1.6779 | 1.6204 | 1.5884 | Ave | | 1.6022 | | | | 8.8 | | 15.0 | | | |
| Tetrachloroethene | 0.5597<br>0.8665 | 0.8409<br>0.8784 | 0.8344<br>0.8447 | 0.7890 | 0.8601 | Ave | | 0.8092 | | | | 13.0 | | 15.0 | | | |
| Chlorodibromomethane | +++++<br>1.0352 | 0.7931<br>1.0390 | 0.7583<br>1.0177 | 0.7977 | 0.8499 | Ave | | 0.8987 | | | | 14.0 | | 15.0 | | | |
| Ethylene Dibromide | 0.7669<br>1.0049 | 0.8453<br>1.0038 | 0.8319<br>0.9643 | 0.8676 | 0.8861 | Ave | | 0.8964 | | | | 9.7 | | 15.0 | | | |
| 1-Chlorohexane | +++++<br>1.4889 | 1.1792<br>1.5527 | 1.3514<br>1.4675 | 1.4000 | 1.4858 | Ave | | 1.4179 | | | | 8.7 | | 15.0 | | | |
| Chlorobenzene | 2.1216<br>3.0532 | 2.9174<br>3.0940 | 2.8724<br>2.9072 | 2.7971 | 2.9167 | Ave | | 2.8349 | | | 0.3000 | 11.0 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | +++++<br>1.0727 | +++++<br>1.0895 | 0.8632<br>1.0792 | 0.8897 | 0.9333 | Ave | | 0.9879 | | | | 11.0 | | 15.0 | | | |
| Ethylbenzene | 1.1692<br>1.7409 | 1.5642<br>1.8063 | 1.6049<br>1.7551 | 1.5572 | 1.7121 | Ave | | 1.6137 | | | | 13.0 | | 30.0 | | | |
| m-Xylene & p-Xylene | 1.3505<br>2.1391 | 1.8734<br>2.2094 | 2.0041<br>2.0978 | 1.9398 | 2.0855 | Ave | | 1.9624 | | | | 14.0 | | 15.0 | | | |
| o-Xylene | 1.3545<br>2.1641 | 1.8207<br>2.2291 | 1.9131<br>2.1728 | 1.9082 | 2.0500 | Ave | | 1.9516 | | | | 14.0 | | 15.0 | | | |
| Styrene | +++++<br>3.4976 | 2.6965<br>3.6864 | 2.9242<br>3.5507 | 3.0107 | 3.1537 | Ave | | 3.2171 | | | | 11.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Bromoform | +++++<br>0.6165 | +++++<br>0.6525 | 0.4626<br>0.6395 | 0.4834 | 0.4840 | Lin1 | -1.421 | 0.6476 | | | 0.1000 | | | | 0.9980 | | 0.9900 |
| Isopropylbenzene | 2.1892<br>3.5128 | 3.0750<br>3.6023 | 3.2301<br>3.3957 | 3.2900 | 3.4799 | Ave | | 3.2219 | | | | 14.0 | | 15.0 | | | |
| Cyclohexanone | 0.0339<br>0.0427 | 0.0347<br>0.0444 | 0.0378<br>0.0407 | 0.0371 | 0.0458 | Ave | | 0.0396 | | | | 11.0 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.7598<br>0.8711 | 0.7749<br>0.8732 | 0.7560<br>0.8411 | 0.7790 | 0.8269 | Ave | | 0.8102 | | | 0.3000 | 6.0 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2087<br>0.2610 | 0.1858<br>0.2569 | 0.2045<br>0.2471 | 0.2329 | 0.2463 | Ave | | 0.2304 | | | | 12.0 | | 15.0 | | | |
| Bromobenzene | 0.5734<br>0.8238 | 0.6947<br>0.8691 | 0.7782<br>0.8809 | 0.7568 | 0.7623 | Ave | | 0.7674 | | | | 13.0 | | 15.0 | | | |
| N-Propylbenzene | 0.6415<br>0.9467 | 0.8277<br>1.0274 | 0.8886<br>1.0316 | 0.8941 | 0.9495 | Ave | | 0.9009 | | | | 14.0 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | +++++<br>2.8285 | +++++<br>3.0286 | 2.6024<br>2.8951 | 2.6408 | 2.7862 | Ave | | 2.7969 | | | | 5.7 | | 15.0 | | | |
| 2-Chlorotoluene | 0.5655<br>0.7998 | 0.7470<br>0.8710 | 0.7778<br>0.8752 | 0.7530 | 0.7790 | Ave | | 0.7710 | | | | 12.0 | | 15.0 | | | |
| 4-Chlorotoluene | 0.5623<br>0.7794 | 0.7389<br>0.8467 | 0.7678<br>0.8280 | 0.7642 | 0.7698 | Ave | | 0.7571 | | | | 11.0 | | 15.0 | | | |
| tert-Butylbenzene | 1.7090<br>2.8077 | 2.4830<br>2.9785 | 2.5994<br>2.8918 | 2.6055 | 2.7519 | Ave | | 2.6033 | | | | 15.0 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 1.7117<br>2.8358 | 2.5299<br>3.0615 | 2.6901<br>2.8962 | 2.7266 | 2.7708 | Ave | | 2.6528 | | | | 15.0 | | 15.0 | | | |
| sec-Butylbenzene | +++++<br>0.7315 | +++++<br>0.7979 | 0.7032<br>0.7948 | 0.6928 | 0.7377 | Ave | | 0.7430 | | | | 6.0 | | 15.0 | | | |
| 4-Isopropyltoluene | +++++<br>2.9671 | +++++<br>3.2699 | 2.8816<br>3.0585 | 2.8711 | 3.0397 | Ave | | 3.0146 | | | | 4.9 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.0748<br>1.4855 | 1.4753<br>1.5932 | 1.4636<br>1.5334 | 1.4537 | 1.4613 | Ave | | 1.4426 | | | | 11.0 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.2195<br>1.4810 | 1.4625<br>1.6048 | 1.4976<br>1.5319 | 1.4176 | 1.4306 | Ave | | 1.4557 | | | | 7.7 | | 15.0 | | | |
| n-Butylbenzene | 1.7869<br>2.8032 | 2.6545<br>3.1597 | 2.8920<br>2.9096 | 2.8204 | 2.9233 | Ave | | 2.7437 | | | | 15.0 | | 15.0 | | | |
| 1,2-Dichlorobenzene | 1.1034<br>1.4436 | 1.3804<br>1.5361 | 1.3530<br>1.4672 | 1.3454 | 1.3387 | Ave | | 1.3710 | | | | 9.4 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.1198<br>0.1630 | 0.1291<br>0.1739 | 0.1206<br>0.1672 | 0.1316 | 0.1542 | Ave | | 0.1449 | | | | 15.0 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.7868<br>0.9292 | 0.8927<br>1.0361 | 0.9512<br>0.9452 | 0.8906 | 0.8687 | Ave | | 0.9126 | | | | 7.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | +++++<br>0.4116 | +++++<br>0.4866 | 0.4445<br>0.4473 | 0.4106 | 0.4213 | Ave | | 0.4370 | | | | 6.6 | | 15.0 | | | |
| Naphthalene | 1.9185<br>2.7967 | 2.2707<br>2.9074 | 2.4416<br>2.6153 | 2.3544 | 2.5079 | Ave | | 2.4766 | | | | 13.0 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.7296<br>0.9133 | 0.7859<br>0.9881 | 0.9295<br>0.8963 | 0.8265 | 0.8199 | Ave | | 0.8611 | | | | 9.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD001 280-173584/2 | g2_8118.D |
| Level 2 | STD002 280-173584/5 | g2_8119.D |
| Level 3 | STD005 280-173584/6 | g2_8120.D |
| Level 4 | STD010 280-173584/7 | g2_8121.D |
| Level 5 | STD020 280-173584/8 | g2_8122.D |
| Level 6 | STD050 280-173584/9 | g2_8123.D |
| Level 7 | STD100 280-173584/10 | g2_8124.D |
| Level 8 | STD200 280-173584/11 | g2_8125.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Lin1 | +++++<br>661979 | +++++<br>1290733 | 42386<br>2555760 | 85585 | 169024 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Chloromethane | FB | Ave | 8903<br>713192 | 23023<br>1359929 | 54418<br>2771553 | 107308 | 207575 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Vinyl chloride | FB | Ave | +++++<br>716349 | 22409<br>1376088 | 53991<br>2793537 | 109013 | 214290 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Bromomethane | FB | Ave | +++++<br>524933 | +++++<br>1046753 | 39032<br>2268610 | 83976 | 162410 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Chloroethane | FB | Ave | +++++<br>452418 | +++++<br>866264 | 34753<br>1785865 | 69754 | 139745 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Ethanol | FB | Ave | +++++<br>268932 | +++++<br>660525 | 30400<br>1306488 | 45383 | 105075 | +++++<br>2500 | +++++<br>5000 | 250<br>10000 | 500 | 1000 |
| Trichlorofluoromethane | FB | Ave | +++++<br>816050 | +++++<br>1612952 | 66291<br>3267067 | 134072 | 257870 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Acrolein | FB | Ave | 12218<br>714395 | 24611<br>1422409 | 58301<br>2901887 | 117159 | 246564 | 10.0<br>500 | 20.0<br>1000 | 50.0<br>2000 | 100 | 200 |
| Acetone | FB | Ave | +++++<br>734036 | 37137<br>1582126 | 72162<br>3141043 | 141141 | 278757 | +++++<br>200 | 8.00<br>400 | 20.0<br>800 | 40.0 | 80.0 |
| 1,1-Dichloroethene | FB | Lin2 | 5694<br>492340 | 16597<br>965587 | 41339<br>1995339 | 79349 | 164770 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Iodomethane | FB | Ave | 10082<br>742400 | 25047<br>1461749 | 62369<br>3027753 | 123695 | 230061 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Acetonitrile | FB | Ave | 13129<br>556980 | 26347<br>1363451 | 57120<br>2656764 | 113753 | 248407 | 10.0<br>500 | 20.0<br>1000 | 50.0<br>2000 | 100 | 200 |
| 2-Methyl-2-propanol | FB | Ave | 25676<br>1289322 | 46325<br>3013592 | 109248<br>5888435 | 229991 | 508394 | 20.0<br>1000 | 40.0<br>2000 | 100<br>4000 | 200 | 400 |
| Methylene Chloride | FB | Ave | +++++<br>638842 | +++++<br>1228379 | 81190<br>2533349 | 134939 | 222424 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Acrylonitrile | FB | Ave | 37903<br>2108317 | 77257<br>4330798 | 179109<br>8633525 | 366334 | 761377 | 10.0<br>500 | 20.0<br>1000 | 50.0<br>2000 | 100 | 200 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| trans-1,2-Dichloroethene | FB | Ave | 8465<br>673769 | 23506<br>1310061 | 54381<br>2732856 | 113456 | 222072 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Isopropyl ether | FB | Ave | 35564<br>2541070 | 84646<br>5045680 | 207588<br>10450632 | 417862 | 777494 | 5.00<br>250 | 10.0<br>500 | 25.0<br>1000 | 50.0 | 100 |
| 1,1-Dichloroethane | FB | Ave | 13423<br>1015491 | 36131<br>2045316 | 86323<br>4162392 | 175805 | 332703 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Chloro-1,3-butadiene | FB | Ave | +++++<br>831309 | +++++<br>1659038 | 68430<br>3386733 | 134676 | 273920 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Butanone (MEK) | FB | Ave | 23481<br>1121654 | 40518<br>2300208 | 92269<br>4689134 | 192099 | 387142 | 4.00<br>200 | 8.00<br>400 | 20.0<br>800 | 40.0 | 80.0 |
| Propionitrile | FB | Ave | 14036<br>782826 | 27553<br>1684294 | 66904<br>3344539 | 140907 | 293811 | 10.0<br>500 | 20.0<br>1000 | 50.0<br>2000 | 100 | 200 |
| cis-1,2-Dichloroethene | FB | Ave | 8626<br>617088 | 21386<br>1247972 | 53992<br>2560627 | 102854 | 200095 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2,2-Dichloropropane | FB | Ave | +++++<br>742437 | +++++<br>1495205 | 54865<br>3076815 | 113337 | 230216 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Methacrylonitrile | FB | Ave | 61005<br>3507130 | 115961<br>6999097 | 291717<br>13470149 | 594502 | 1186275 | 10.0<br>500 | 20.0<br>1000 | 50.0<br>2000 | 100 | 200 |
| Chlorobromomethane | FB | Ave | 3830<br>288909 | 10492<br>573703 | 24265<br>1216638 | 48629 | 89225 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Chloroform | FB | Ave | 13779<br>947877 | 34725<br>1906506 | 82462<br>3894444 | 164386 | 309846 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Isobutyl alcohol | FB | Ave | 8025<br>449552 | 16196<br>994685 | 37825<br>1962373 | 80968 | 170447 | 20.0<br>1000 | 40.0<br>2000 | 100<br>4000 | 200 | 400 |
| 1,1,1-Trichloroethane | FB | Ave | 9791<br>796040 | 25851<br>1571555 | 64203<br>3242034 | 129715 | 255937 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1-Dichloropropene | FB | Ave | 10403<br>821741 | 29186<br>1658142 | 71292<br>3379652 | 140565 | 277651 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Carbon tetrachloride | FB | Ave | +++++<br>647745 | 20559<br>1299998 | 52882<br>2706738 | 104277 | 207274 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichloroethane | FB | Ave | 11592<br>756252 | 27933<br>1506249 | 66835<br>3040620 | 131907 | 235851 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Benzene | FB | Ave | 30321<br>2271214 | 82339<br>4557144 | 201291<br>9179086 | 388709 | 734397 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Trichloroethene | FB | Ave | 7672<br>554892 | 19109<br>1153963 | 48187<br>2373403 | 91738 | 180258 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichloropropane | FB | Ave | 8156<br>571697 | 19800<br>1173603 | 48144<br>2416491 | 95288 | 178098 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,4-Dioxane | FB | Ave | 3951<br>254439 | 8428<br>527317 | 24015<br>1048432 | 41420 | 100394 | 50.0<br>2500 | 100<br>5000 | 250<br>10000 | 500 | 1000 |
| Dibromomethane | FB | Ave | 5032<br>324584 | 11064<br>681023 | 27326<br>1387680 | 55455 | 99146 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Dichlorobromomethane | FB | Ave | +++++<br>692754 | +++++<br>1419182 | 53888<br>2954368 | 111126 | 204674 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| cis-1,3-Dichloropropene | CBZ | Lin2 | 10535<br>853450 | 25499<br>1814903 | 65962<br>3747171 | 136230 | 247632 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | FB | Ave | 38652<br>2378098 | 76100<br>4889710 | 185624<br>9610314 | 398547 | 776751 | 4.00<br>200 | 8.00<br>400 | 20.0<br>800 | 40.0 | 80.0 |
| Toluene | FB | Ave | 31979<br>2364788 | 83589<br>4850802 | 208851<br>9588942 | 416629 | 787325 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| trans-1,3-Dichloropropene | FB | Lin1 | 8944<br>763842 | 20785<br>1623063 | 55969<br>3343251 | 120269 | 218723 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1,2-Trichloroethane | FB | Ave | 7424<br>469716 | 16841<br>978714 | 40931<br>1992502 | 80492 | 144254 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Hexanone | CBZ | Ave | 26460<br>1703020 | 50667<br>3529953 | 132043<br>6980042 | 277895 | 551706 | 4.00<br>200 | 8.00<br>400 | 20.0<br>800 | 40.0 | 80.0 |
| 1,3-Dichloropropane | CBZ | Ave | 13029<br>831678 | 29275<br>1752050 | 69376<br>3567579 | 148826 | 257763 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Tetrachloroethene | CBZ | Ave | 5443<br>408338 | 15981<br>870597 | 38130<br>1795944 | 72462 | 139579 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Chlorodibromomethane | CBZ | Ave | +++++<br>487812 | 15071<br>1029811 | 34653<br>2163751 | 73265 | 137916 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Ethylene Dibromide | CBZ | Ave | 7458<br>473553 | 16064<br>994886 | 38013<br>2050245 | 79688 | 143792 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1-Chlorohexane | CBZ | Ave | +++++<br>689961 | 22037<br>1513361 | 60726<br>3068252 | 126445 | 237103 | +++++<br>49.2 | 1.97<br>98.3 | 4.92<br>197 | 9.83 | 19.7 |
| Chlorobenzene | CBZ | Ave | 20632<br>1438768 | 55440<br>3066537 | 131257<br>6181275 | 256905 | 473315 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | +++++<br>505467 | +++++<br>1079837 | 39444<br>2294582 | 81713 | 151446 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Ethylbenzene | CBZ | Ave | 11370<br>820348 | 29725<br>1790282 | 73337<br>3731727 | 143024 | 277842 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 26266<br>2015988 | 71202<br>4379652 | 183159<br>8920801 | 356329 | 676843 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| o-Xylene | CBZ | Ave | 13172<br>1019783 | 34600<br>2209338 | 87419<br>4619831 | 175261 | 332674 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Styrene | CBZ | Ave | +++++<br>1648186 | 51243<br>3653771 | 133623<br>7549371 | 276520 | 511778 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Bromoform | CBZ | Lin1 | +++++<br>290496 | +++++<br>646744 | 21141<br>1359773 | 44397 | 78549 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Isopropylbenzene | DCB | Ave | 32354<br>2535970 | 88159<br>5444046 | 229529<br>10664935 | 463182 | 853536 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Cyclohexanone | CBZ | Ave | 13203<br>803958 | 26405<br>1758362 | 69156<br>3464734 | 136129 | 297363 | 40.0<br>2000 | 80.0<br>4000 | 200<br>8000 | 400 | 800 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 11229<br>628840 | 22216<br>1319625 | 53717<br>2641738 | 109668 | 202828 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 3085<br>188429 | 5327<br>388167 | 14533<br>776044 | 32785 | 60418 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Bromobenzene | DCB | Ave | 8474<br>594697 | 19917<br>1313376 | 55299<br>2766747 | 106546 | 186983 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| N-Propylbenzene | DCB | Ave | 9481<br>683450 | 23731<br>1552660 | 63142<br>3239883 | 125878 | 232896 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | +++++<br>2041962 | +++++<br>4577008 | 184920<br>9092807 | 371790 | 683400 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Chlorotoluene | DCB | Ave | 8357<br>577379 | 21415<br>1316230 | 55273<br>2748713 | 106005 | 191074 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 4-Chlorotoluene | DCB | Ave | 8311<br>562688 | 21185<br>1279578 | 54557<br>2600442 | 107588 | 188805 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| tert-Butylbenzene | DCB | Ave | 25257<br>2026916 | 71186<br>4501331 | 184707<br>9082431 | 366812 | 674978 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 25297<br>2047192 | 72533<br>4626717 | 191156<br>9096172 | 383864 | 679605 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| sec-Butylbenzene | DCB | Ave | +++++<br>528096 | +++++<br>1205883 | 49965<br>2496377 | 97543 | 180941 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 4-Isopropyltoluene | DCB | Ave | +++++<br>2141952 | +++++<br>4941610 | 204763<br>9606090 | 404203 | 745569 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 15885<br>1072411 | 42296<br>2407692 | 104001<br>4816077 | 204657 | 358414 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 18023<br>1069129 | 41929<br>2425262 | 106420<br>4811283 | 199572 | 350905 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| n-Butylbenzene | DCB | Ave | 26409<br>2023677 | 76103<br>4775131 | 205501<br>9138232 | 397074 | 717019 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 16308<br>1042132 | 39575<br>2321365 | 96139<br>4608158 | 189408 | 328348 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 1770<br>117650 | 3700<br>262874 | 8571<br>525099 | 18523 | 37834 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 11629<br>670821 | 25595<br>1565851 | 67594<br>2968526 | 125380 | 213082 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Hexachlorobutadiene | DCB | Ave | +++++<br>297115 | +++++<br>735326 | 31589<br>1404750 | 57800 | 103339 | +++++<br>50.0 | +++++<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Naphthalene | DCB | Ave | 28354<br>2018986 | 65101<br>4393755 | 173498<br>8214027 | 331465 | 615139 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 10783<br>659357 | 22531<br>1493217 | 66052<br>2815086 | 116353 | 201115 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 19:32 Calibration End Date: 05/09/2013 21:47 Calibration ID: 14002

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |
| Lin2 = Linear 1/conc^2 ISTD |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8118.D | | |
| Lims ID: | STD001 | Client ID: | |
| Inject. Date: | 09-May-2013 19:32:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 1 |
| Sample ID: | CCV | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 10 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 2 |
| Sublist: | chrom-SO_VMSG2_8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 14-May-2013 14:59:06 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | XAWRK009 | | |
| First Level Reviewer: dukesa | | Date: | 09-May-2013 20:27:20 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.638 | 7.645 | -0.007 | 99 | 2194604 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 486241 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.743 | 11.735 | 0.008 | 96 | 738962 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 28 | 5125 | 2.29 | |
| 27 Chloromethane | 50 | 4.144 | 4.158 | -0.014 | 62 | 8903 | 0.7314 | |
| 28 Vinyl chloride | 62 | 4.283 | 4.297 | -0.014 | 24 | 8005 | 0.6297 | |
| 31 Bromomethane | 94 | 4.660 | 4.674 | -0.014 | 38 | 5794 | 0.5899 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 42 | 4589 | 0.5554 | |
| 34 Ethanol | 45 | | 4.996 | | | | | 19 |
| 35 Trichlorofluoromethane | 101 | 5.010 | 5.010 | 0.0 | 16 | 5979 | 0.3894 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 59 | 12218 | 9.14 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 91 | 24015 | 6.02 | |
| 45 1,1-Dichloroethene | 96 | 5.429 | 5.429 | 0.0 | 48 | 5694 | 0.9762 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 73 | 10082 | 0.7524 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 42 | 13129 | 10.2 | |
| 51 2-Methyl-2-propanol | 59 | 5.722 | 5.736 | -0.014 | 78 | 25676 | 19.4 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 91 | 45121 | 3.29 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 97 | 37903 | 9.27 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 78 | 8465 | 0.6967 | |
| 58 Isopropyl ether | 87 | 6.287 | 6.287 | 0.0 | 92 | 35564 | 3.89 | |
| 59 1,1-Dichloroethane | 63 | 6.330 | 6.323 | 0.007 | 37 | 13423 | 0.7171 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 24 | 8954 | 0.5658 | |
| 62 2-Butanone (MEK) | 43 | 6.687 | 6.694 | -0.007 | 91 | 23481 | 4.28 | |
| 64 Propionitrile | 54 | 6.745 | 6.745 | 0.0 | 87 | 14036 | 9.09 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.752 | 6.759 | -0.007 | 33 | 8626 | 0.7570 | |
| 67 2,2-Dichloropropane | 77 | 6.787 | 6.795 | -0.008 | 36 | 8034 | 0.5861 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 93 | 61005 | 9.35 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 82 | 3830 | 0.7249 | |
| 70 Chloroform | 83 | 6.959 | 6.959 | 0.0 | 65 | 13779 | 0.7765 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.145 | 7.152 | -0.007 | 56 | 8025 | 17.9 | |
| 73 1,1,1-Trichloroethane | 97 | 7.188 | 7.188 | 0.0 | 52 | 9791 | 0.6926 | |
| 75 1,1-Dichloropropene | 75 | 7.288 | 7.295 | -0.007 | 47 | 10403 | 0.6855 | |
| 76 Carbon tetrachloride | 117 | 7.324 | 7.338 | -0.014 | 32 | 3862 | 0.3207 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 58 | 11592 | 0.8197 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 77 | 30321 | 0.7221 | |
| 80 n-Butanol | 56 | 7.645 | 7.653 | -0.008 | 23 | 23487 | 58.0 | |
| 81 Trichloroethene | 95 | 7.931 | 7.931 | 0.0 | 64 | 7672 | 0.7453 | |
| 84 1,2-Dichloropropane | 63 | 8.110 | 8.110 | 0.0 | 58 | 8156 | 0.7752 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 35 | 3951 | 40.3 | |
| 87 Dibromomethane | 93 | 8.217 | 8.210 | 0.007 | 75 | 5032 | 0.8326 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 36 | 8580 | 0.6605 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.596 | 8.604 | -0.008 | 50 | 10535 | 1.03 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 88 | 38652 | 3.55 | |
| 93 Toluene | 91 | 8.882 | 8.882 | 0.0 | 87 | 31979 | 0.7252 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.968 | 8.975 | -0.007 | 61 | 8944 | 1.29 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 56 | 7424 | 0.8394 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 91 | 26460 | 3.46 | |
| 98 1,3-Dichloropropane | 76 | 9.261 | 9.261 | 0.0 | 61 | 13029 | 0.8362 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 75 | 5443 | 0.6917 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 34 | 6609 | 0.7562 | |
| 102 Ethylene Dibromide | 107 | 9.590 | 9.583 | 0.007 | 35 | 7458 | 0.8556 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 63 | 8097 | 0.5872 | |
| 104 Chlorobenzene | 112 | 9.934 | 9.934 | 0.0 | 73 | 20632 | 0.7484 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.962 | 0.007 | 16 | 6393 | 0.6654 | |
| 106 Ethylbenzene | 106 | 9.976 | 9.969 | 0.007 | 84 | 11370 | 0.7245 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 97 | 26266 | 1.38 | |
| 109 Styrene | 104 | 10.363 | 10.363 | 0.0 | 78 | 18888 | 0.6037 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | 0.0 | 83 | 13172 | 0.6940 | |
| 110 Bromoform | 173 | 10.556 | 10.556 | 0.0 | 65 | 3924 | 2.82 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 67 | 32354 | 0.6795 | |
| 113 Cyclohexanone | 55 | 10.742 | 10.742 | 0.0 | 75 | 13203 | 34.2 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 29 | 11229 | 0.9377 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 34 | 3085 | 0.9060 | |
| 118 N-Propylbenzene | 120 | 10.949 | 10.942 | 0.007 | 88 | 9481 | 0.7121 | |
| 117 Bromobenzene | 156 | 10.949 | 10.942 | 0.007 | 43 | 8474 | 0.7472 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 66 | 25242 | 0.6106 | |
| 120 2-Chlorotoluene | 126 | 11.070 | 11.063 | 0.007 | 80 | 8357 | 0.7334 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 72 | 8311 | 0.7427 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 63 | 25257 | 0.6564 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.378 | 0.007 | 64 | 25297 | 0.6452 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 59 | 6257 | 0.5698 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.621 | 0.007 | 66 | 26066 | 0.5850 | |
| 126 1,3-Dichlorobenzene | 146 | 11.692 | 11.692 | 0.0 | 56 | 15885 | 0.7451 | |
| 127 1,4-Dichlorobenzene | 146 | 11.764 | 11.757 | 0.007 | 64 | 18023 | 0.8377 | |
| 129 n-Butylbenzene | 91 | 11.993 | 11.986 | 0.007 | 81 | 26409 | 0.6513 | |
| 130 1,2-Dichlorobenzene | 146 | 12.122 | 12.114 | 0.008 | 79 | 16308 | 0.8049 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.858 | 12.851 | 0.007 | 1 | 1770 | 0.8264 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 33 | 11629 | 0.8622 | |
| 133 Hexachlorobutadiene | 225 | 13.973 | 13.966 | 0.007 | 9 | 3886 | 0.6017 | |
| 134 Naphthalene | 128 | 14.174 | 14.166 | 0.008 | 66 | 28354 | 0.7747 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.495 | 14.488 | 0.007 | 40 | 10783 | 0.8473 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 5.01 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 2.07 | |
| S 138 Total BTEX | 1 | | | | 0 | | 4.24 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 2.32 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 1.45 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 2.07 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 1.45 | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

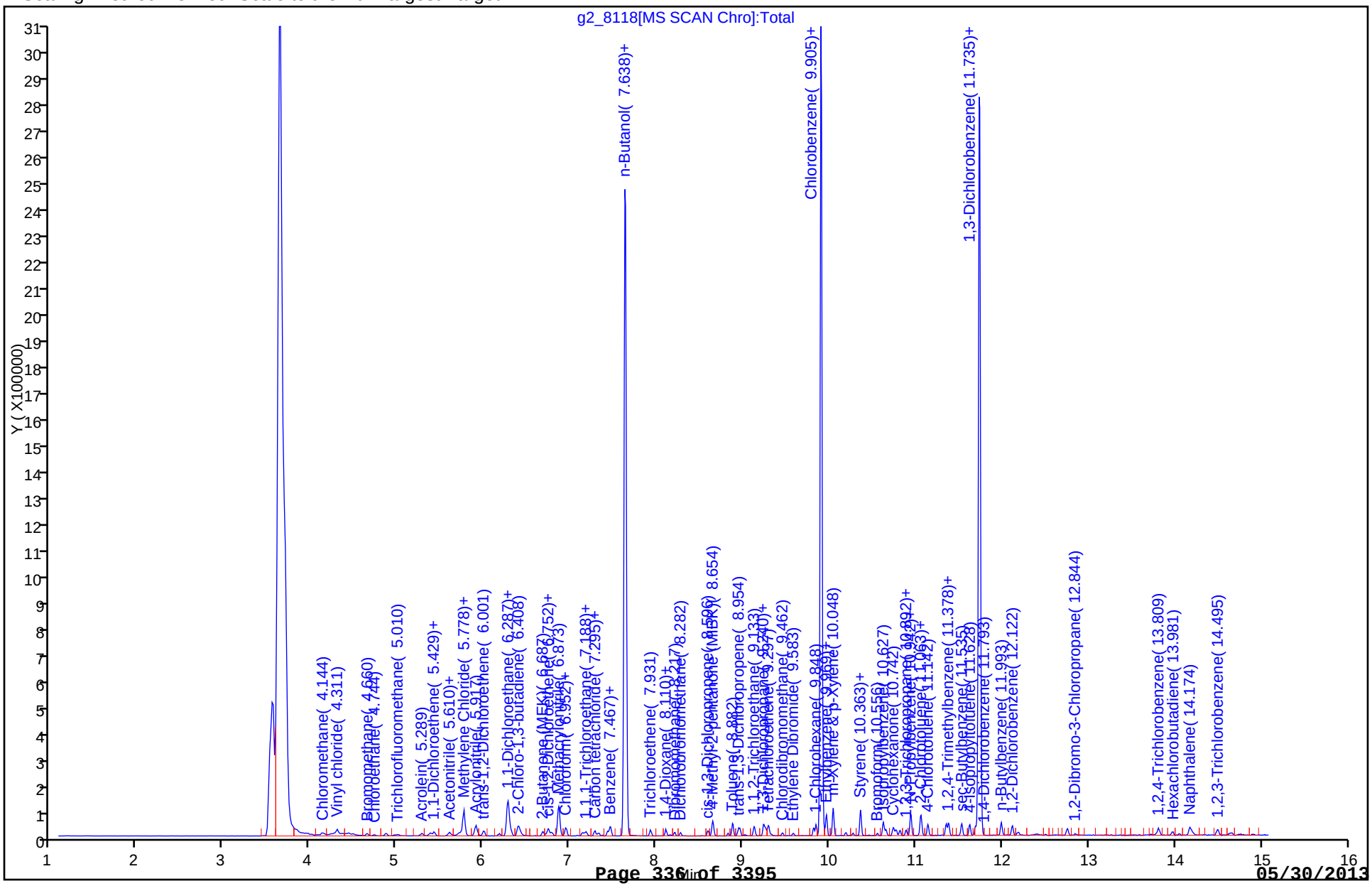
Report Date: 14-May-2013 14:59:07 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8118.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 19:32:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 2 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8119.D
Lims ID: STD002 Client ID:
Inject. Date: 09-May-2013 19:51:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: STD002
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 11
Lims Batch ID: 173584 Lims Sample ID: 5
Sublist: chrom-SO_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 14-May-2013 14:59:07 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: dukesa Date: 09-May-2013 20:27:32

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.646 | 7.645 | 0.001 | 99 | 2158429 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 475088 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 96 | 716747 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 58 | 18765 | 3.39 | |
| 27 Chloromethane | 50 | 4.144 | 4.158 | -0.014 | 85 | 23023 | 1.92 | |
| 28 Vinyl chloride | 62 | 4.283 | 4.297 | -0.014 | 75 | 22409 | 1.79 | |
| 31 Bromomethane | 94 | 4.661 | 4.674 | -0.013 | 73 | 15875 | 1.64 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 52 | 13695 | 1.69 | |
| 34 Ethanol | 45 | 5.010 | 4.996 | 0.014 | 19 | 6114 | 52.0 | |
| 35 Trichlorofluoromethane | 101 | 5.010 | 5.010 | 0.0 | 65 | 26749 | 1.77 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 76 | 24611 | 18.7 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 96 | 37137 | 9.47 | |
| 45 1,1-Dichloroethene | 96 | 5.443 | 5.429 | 0.014 | 73 | 16597 | 2.13 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 83 | 25047 | 1.90 | |
| 46 Acetonitrile | 41 | 5.624 | 5.610 | 0.014 | 62 | 26347 | 20.8 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 86 | 46325 | 35.6 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 87 | 54954 | 4.07 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 99 | 77257 | 19.2 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 93 | 23506 | 1.97 | |
| 58 Isopropyl ether | 87 | 6.294 | 6.287 | 0.007 | 93 | 84646 | 9.41 | |
| 59 1,1-Dichloroethane | 63 | 6.323 | 6.323 | 0.0 | 59 | 36131 | 1.96 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 79 | 26264 | 1.69 | |
| 62 2-Butanone (MEK) | 43 | 6.695 | 6.694 | 0.001 | 95 | 40518 | 7.51 | |
| 64 Propionitrile | 54 | 6.752 | 6.745 | 0.007 | 74 | 27553 | 18.1 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 70 | 21386 | 1.91 | |
| 67 2,2-Dichloropropane | 77 | 6.795 | 6.795 | 0.0 | 49 | 23260 | 1.73 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 92 | 115961 | 18.1 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 88 | 10492 | 2.02 | |
| 70 Chloroform | 83 | 6.959 | 6.959 | 0.0 | 84 | 34725 | 1.99 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 69 | 16196 | 36.8 | |
| 73 1,1,1-Trichloroethane | 97 | 7.195 | 7.188 | 0.007 | 73 | 25851 | 1.86 | |
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 72 | 29186 | 1.96 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 60 | 20559 | 1.74 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 73 | 27933 | 2.01 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 93 | 82339 | 1.99 | |
| 80 n-Butanol | 56 | 7.646 | 7.653 | -0.007 | 23 | 30103 | 75.6 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 81 | 19109 | 1.89 | |
| 84 1,2-Dichloropropane | 63 | 8.117 | 8.110 | 0.007 | 81 | 19800 | 1.91 | |
| 86 1,4-Dioxane | 88 | 8.167 | 8.160 | 0.007 | 61 | 8428 | 87.4 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 81 | 11064 | 1.86 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 87 | 22779 | 1.78 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.596 | 8.604 | -0.008 | 71 | 25499 | 1.98 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 94 | 76100 | 7.10 | |
| 93 Toluene | 91 | 8.883 | 8.882 | 0.0 | 96 | 83589 | 1.93 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.968 | 8.975 | -0.007 | 82 | 20785 | 2.06 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 83 | 16841 | 1.94 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 94 | 50667 | 6.78 | |
| 98 1,3-Dichloropropane | 76 | 9.269 | 9.261 | 0.008 | 85 | 29275 | 1.92 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 84 | 15981 | 2.08 | |
| 100 Chlorodibromomethane | 129 | 9.455 | 9.462 | -0.007 | 64 | 15071 | 1.76 | |
| 102 Ethylene Dibromide | 107 | 9.590 | 9.583 | 0.007 | 74 | 16064 | 1.89 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 81 | 22037 | 1.64 | |
| 104 Chlorobenzene | 112 | 9.934 | 9.934 | 0.0 | 89 | 55440 | 2.06 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.962 | 9.962 | 0.0 | 67 | 17014 | 1.81 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 94 | 29725 | 1.94 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 99 | 71202 | 3.82 | |
| 109 Styrene | 104 | 10.363 | 10.363 | 0.0 | 85 | 51243 | 1.68 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | 0.0 | 87 | 34600 | 1.87 | |
| 110 Bromoform | 173 | 10.556 | 10.556 | 0.0 | 74 | 8982 | 3.65 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 89 | 88159 | 1.91 | |
| 113 Cyclohexanone | 55 | 10.734 | 10.742 | -0.008 | 85 | 26405 | 70.1 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 74 | 22216 | 1.91 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 57 | 5327 | 1.61 | |
| 118 N-Propylbenzene | 120 | 10.942 | 10.942 | 0.0 | 94 | 23731 | 1.84 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 70 | 19917 | 1.81 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 85 | 69493 | 1.73 | |
| 120 2-Chlorotoluene | 126 | 11.063 | 11.063 | 0.0 | 92 | 21415 | 1.94 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 94 | 21185 | 1.95 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 86 | 71186 | 1.91 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.378 | 0.007 | 88 | 72533 | 1.91 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 84 | 18078 | 1.70 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.621 | 0.007 | 89 | 77324 | 1.79 | |
| 126 1,3-Dichlorobenzene | 146 | 11.693 | 11.692 | 0.001 | 69 | 42296 | 2.05 | |
| 127 1,4-Dichlorobenzene | 146 | 11.757 | 11.757 | 0.0 | 74 | 41929 | 2.01 | |
| 129 n-Butylbenzene | 91 | 11.993 | 11.986 | 0.007 | 90 | 76103 | 1.93 | |
| 130 1,2-Dichlorobenzene | 146 | 12.114 | 12.114 | 0.0 | 85 | 39575 | 2.01 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.851 | 12.851 | 0.0 | 11 | 3700 | 1.78 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 70 | 25595 | 1.96 | |
| 133 Hexachlorobutadiene | 225 | 13.966 | 13.966 | 0.0 | 57 | 11420 | 1.82 | |
| 134 Naphthalene | 128 | 14.167 | 14.166 | 0.001 | 84 | 65101 | 1.83 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.495 | 14.488 | 0.007 | 71 | 22531 | 1.83 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 9.19 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 5.68 | |
| S 138 Total BTEX | 1 | | | | 0 | | 11.5 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 4.04 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 3.88 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 5.68 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 3.88 | |

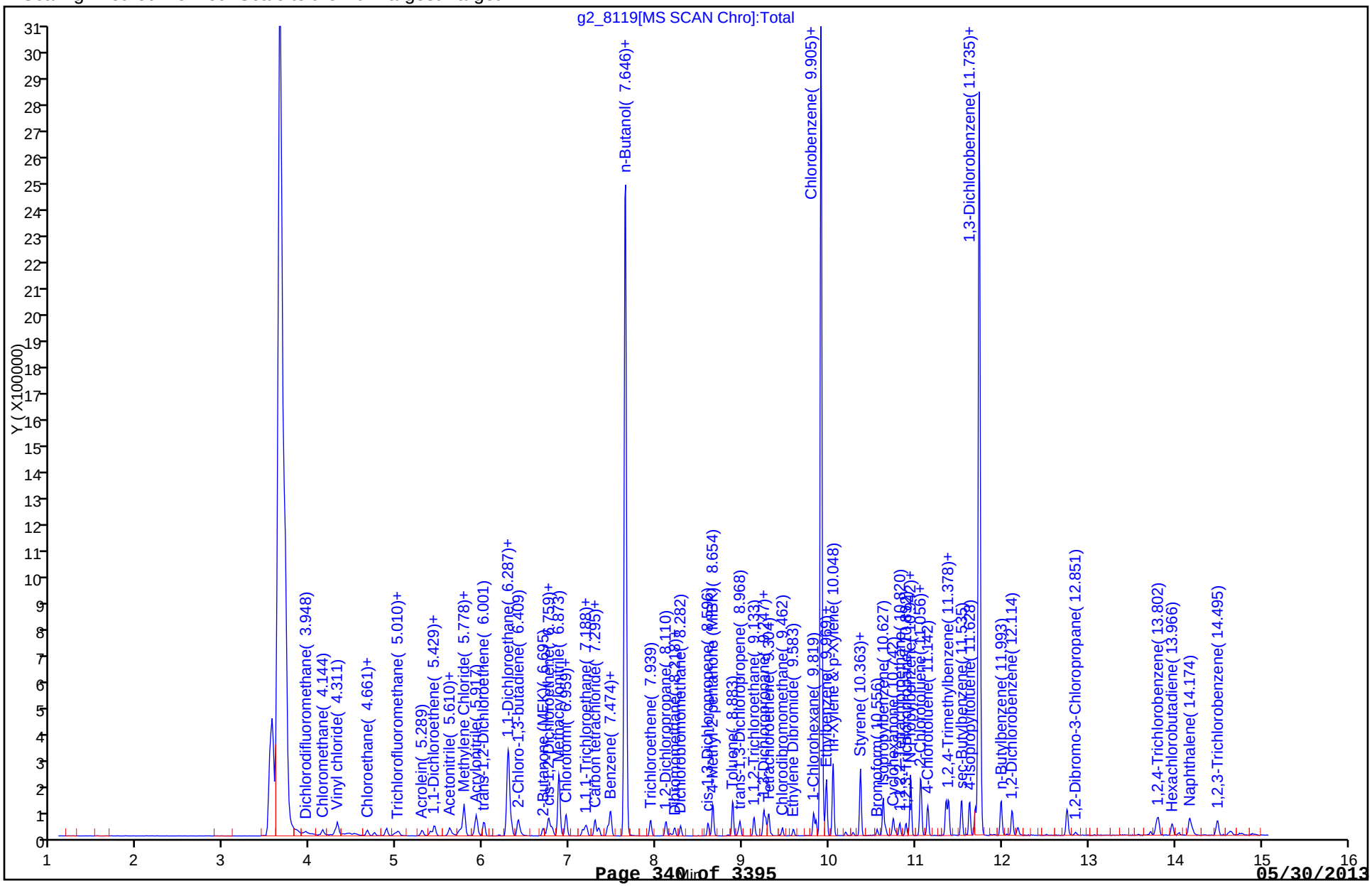
Report Date: 14-May-2013 14:59:08 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8119.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 19:51:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 5 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8120.D
Lims ID: STD005 Client ID:
Inject. Date: 09-May-2013 20:11:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: STD005
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 12
Lims Batch ID: 173584 Lims Sample ID: 6
Sublist: chrom-SO_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 14-May-2013 14:59:08 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: dukesa Date: 09-May-2013 20:49:57

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2053841 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 456958 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 95 | 710587 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.962 | 3.948 | 0.014 | 73 | 42386 | 5.46 | |
| 27 Chloromethane | 50 | 4.158 | 4.158 | 0.0 | 100 | 54418 | 4.78 | |
| 28 Vinyl chloride | 62 | 4.297 | 4.297 | 0.0 | 84 | 53991 | 4.54 | |
| 31 Bromomethane | 94 | 4.674 | 4.674 | 0.0 | 88 | 39032 | 4.25 | |
| 32 Chloroethane | 64 | 4.758 | 4.744 | 0.014 | 83 | 34753 | 4.49 | |
| 34 Ethanol | 45 | 5.024 | 4.996 | 0.028 | 28 | 30400 | 271.5 | |
| 35 Trichlorofluoromethane | 101 | 5.024 | 5.010 | 0.014 | 85 | 66291 | 4.61 | |
| 41 Acrolein | 56 | 5.303 | 5.289 | 0.014 | 89 | 58301 | 46.6 | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.014 | 97 | 72162 | 19.3 | |
| 45 1,1-Dichloroethene | 96 | 5.443 | 5.429 | 0.014 | 94 | 41339 | 4.95 | |
| 47 Iodomethane | 142 | 5.624 | 5.610 | 0.014 | 94 | 62369 | 4.97 | |
| 46 Acetonitrile | 41 | 5.624 | 5.610 | 0.014 | 53 | 57120 | 47.3 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 93 | 109248 | 88.2 | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 88 | 81190 | 6.32 | |
| 53 Acrylonitrile | 53 | 5.931 | 5.917 | 0.014 | 100 | 179109 | 46.8 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.022 | 6.001 | 0.021 | 97 | 54381 | 4.78 | |
| 58 Isopropyl ether | 87 | 6.294 | 6.287 | 0.007 | 94 | 207588 | 24.3 | |
| 59 1,1-Dichloroethane | 63 | 6.330 | 6.323 | 0.007 | 87 | 86323 | 4.93 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.408 | 6.401 | 0.007 | 86 | 68430 | 4.62 | |
| 62 2-Butanone (MEK) | 43 | 6.694 | 6.694 | 0.0 | 99 | 92269 | 18.0 | |
| 64 Propionitrile | 54 | 6.744 | 6.745 | -0.001 | 89 | 66904 | 46.3 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 76 | 53992 | 5.06 | |
| 67 2,2-Dichloropropane | 77 | 6.802 | 6.795 | 0.007 | 55 | 54865 | 4.28 | |
| 68 Methacrylonitrile | 41 | 6.880 | 6.873 | 0.007 | 93 | 291717 | 47.8 | |
| 69 Chlorobromomethane | 128 | 6.959 | 6.952 | 0.007 | 88 | 24265 | 4.91 | |
| 70 Chloroform | 83 | 6.966 | 6.959 | 0.007 | 90 | 82462 | 4.97 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.159 | 7.152 | 0.007 | 83 | 37825 | 90.4 | |
| 73 1,1,1-Trichloroethane | 97 | 7.195 | 7.188 | 0.007 | 92 | 64203 | 4.85 | |
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 84 | 71292 | 5.02 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 60 | 52882 | 4.69 | |
| 77 1,2-Dichloroethane | 62 | 7.445 | 7.438 | 0.007 | 96 | 66835 | 5.05 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 95 | 201291 | 5.12 | |
| 80 n-Butanol | 56 | 7.653 | 7.653 | 0.0 | 76 | 53950 | 142.4 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 92 | 48187 | 5.00 | |
| 84 1,2-Dichloropropane | 63 | 8.117 | 8.110 | 0.007 | 90 | 48144 | 4.89 | |
| 86 1,4-Dioxane | 88 | 8.167 | 8.160 | 0.007 | 83 | 24015 | 261.8 | |
| 87 Dibromomethane | 93 | 8.217 | 8.210 | 0.007 | 86 | 27326 | 4.83 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 93 | 53888 | 4.43 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.604 | 0.0 | 85 | 65962 | 4.66 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 97 | 185624 | 18.2 | |
| 93 Toluene | 91 | 8.890 | 8.882 | 0.008 | 97 | 208851 | 5.06 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.975 | 8.975 | 0.0 | 90 | 55969 | 4.50 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 85 | 40931 | 4.95 | |
| 97 2-Hexanone | 43 | 9.247 | 9.240 | 0.007 | 97 | 132043 | 18.4 | |
| 98 1,3-Dichloropropane | 76 | 9.269 | 9.261 | 0.008 | 90 | 69376 | 4.74 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 91 | 38130 | 5.16 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 79 | 34653 | 4.22 | |
| 102 Ethylene Dibromide | 107 | 9.583 | 9.583 | 0.0 | 85 | 38013 | 4.64 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 91 | 60726 | 4.69 | |
| 104 Chlorobenzene | 112 | 9.933 | 9.934 | -0.001 | 90 | 131257 | 5.07 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.962 | 9.962 | 0.0 | 87 | 39444 | 4.37 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 97 | 73337 | 4.97 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 99 | 183159 | 10.2 | |
| 109 Styrene | 104 | 10.363 | 10.363 | -0.001 | 88 | 133623 | 4.54 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | -0.001 | 88 | 87419 | 4.90 | |
| 110 Bromoform | 173 | 10.556 | 10.556 | 0.0 | 78 | 21141 | 5.77 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 95 | 229529 | 5.01 | |
| 113 Cyclohexanone | 55 | 10.741 | 10.742 | -0.001 | 93 | 69156 | 190.9 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 84 | 53717 | 4.66 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 83 | 14533 | 4.44 | |
| 118 N-Propylbenzene | 120 | 10.942 | 10.942 | 0.0 | 96 | 63142 | 4.93 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 85 | 55299 | 5.07 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 91 | 184920 | 4.65 | |
| 120 2-Chlorotoluene | 126 | 11.070 | 11.063 | 0.007 | 95 | 55273 | 5.04 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 54557 | 5.07 | |
| 122 tert-Butylbenzene | 119 | 11.349 | 11.356 | -0.007 | 89 | 184707 | 4.99 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.378 | 0.007 | 94 | 191156 | 5.07 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 93 | 49965 | 4.73 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.621 | 0.007 | 95 | 204763 | 4.78 | |
| 126 1,3-Dichlorobenzene | 146 | 11.692 | 11.692 | 0.0 | 85 | 104001 | 5.07 | |
| 127 1,4-Dichlorobenzene | 146 | 11.764 | 11.757 | 0.007 | 77 | 106420 | 5.14 | |
| 129 n-Butylbenzene | 91 | 11.993 | 11.986 | 0.007 | 97 | 205501 | 5.27 | |
| 130 1,2-Dichlorobenzene | 146 | 12.121 | 12.114 | 0.007 | 94 | 96139 | 4.93 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.851 | 12.851 | 0.0 | 37 | 8571 | 4.16 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 88 | 67594 | 5.21 | |
| 133 Hexachlorobutadiene | 225 | 13.966 | 13.966 | 0.0 | 87 | 31589 | 5.09 | |
| 134 Naphthalene | 128 | 14.166 | 14.166 | 0.0 | 94 | 173498 | 4.93 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.488 | 14.488 | 0.0 | 92 | 66052 | 5.40 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 19.4 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 15.1 | |
| S 138 Total BTEX | 1 | | | | 0 | | 30.3 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 9.16 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 9.85 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 15.1 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 9.85 | |

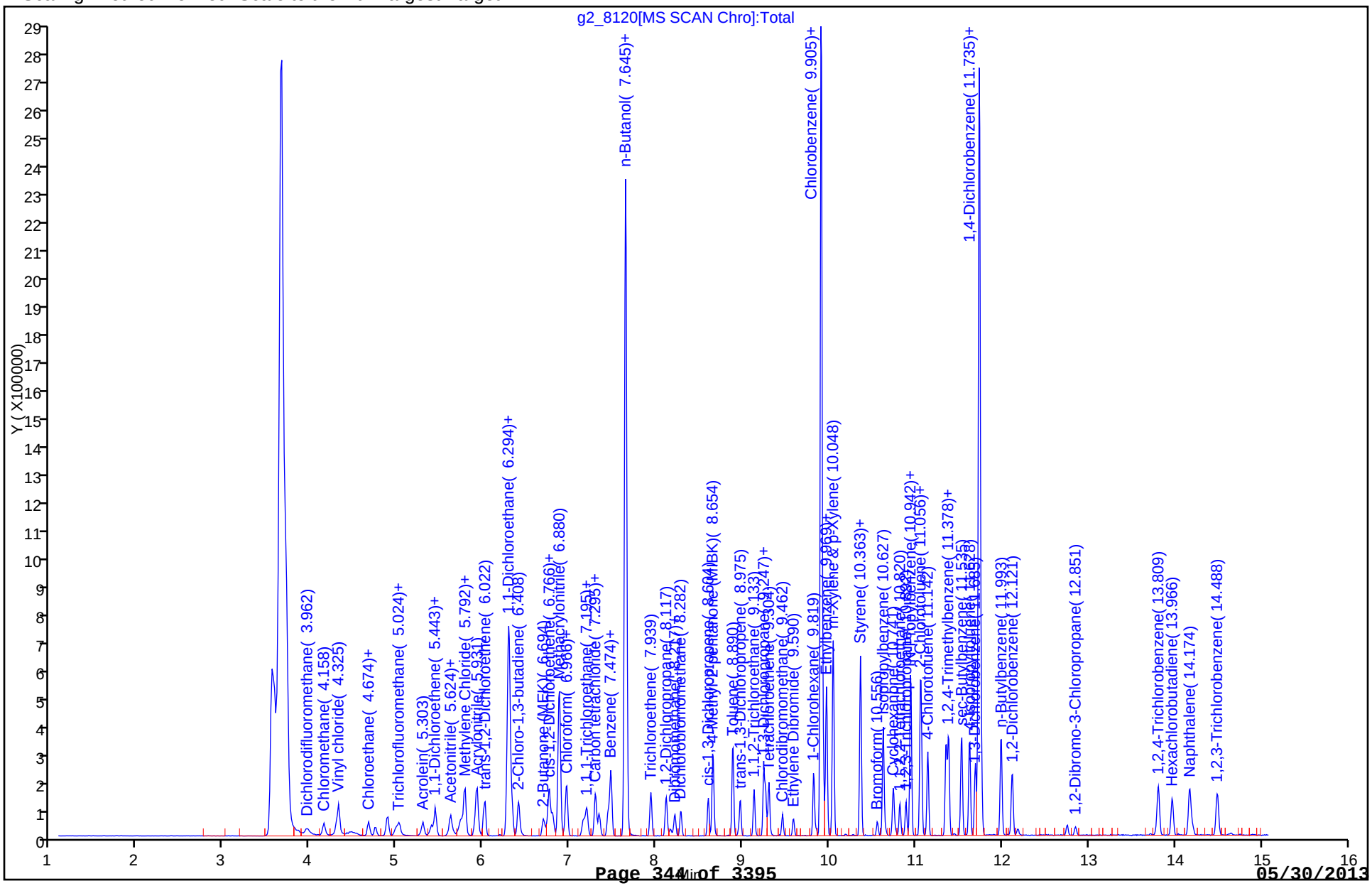
Report Date: 14-May-2013 14:59:09 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8120.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 20:11:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 6 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8121.D | | |
| Lims ID: | STD010 | Client ID: | |
| Inject. Date: | 09-May-2013 20:30:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | STD010 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 13 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 7 |
| Sublist: | chrom-SO_VMSG2_8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 14-May-2013 14:59:09 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | XAWRK009 | | |
| First Level Reviewer: dukesa | | Date: | 09-May-2013 20:50:22 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.646 | 7.645 | 0.001 | 98 | 2056480 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 87 | 459227 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 96 | 703927 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 93 | 85585 | 9.09 | |
| 27 Chloromethane | 50 | 4.144 | 4.158 | -0.014 | 100 | 107308 | 9.41 | |
| 28 Vinyl chloride | 62 | 4.297 | 4.297 | 0.0 | 98 | 109013 | 9.15 | |
| 31 Bromomethane | 94 | 4.661 | 4.674 | -0.013 | 86 | 83976 | 9.12 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 94 | 69754 | 9.01 | |
| 34 Ethanol | 45 | 4.996 | 4.996 | 0.0 | 48 | 45383 | 404.8 | |
| 35 Trichlorofluoromethane | 101 | 5.010 | 5.010 | 0.0 | 93 | 134072 | 9.32 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 90 | 117159 | 93.5 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 97 | 141141 | 37.8 | |
| 45 1,1-Dichloroethene | 96 | 5.443 | 5.429 | 0.014 | 95 | 79349 | 9.13 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 97 | 123695 | 9.85 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 51 | 113753 | 94.1 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 97 | 229991 | 185.4 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 88 | 134939 | 10.5 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 99 | 366334 | 95.6 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 97 | 113456 | 9.97 | |
| 58 Isopropyl ether | 87 | 6.287 | 6.287 | 0.0 | 94 | 417862 | 48.8 | |
| 59 1,1-Dichloroethane | 63 | 6.330 | 6.323 | 0.007 | 81 | 175805 | 10.0 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 89 | 134676 | 9.08 | |
| 62 2-Butanone (MEK) | 43 | 6.695 | 6.694 | 0.001 | 100 | 192099 | 37.4 | |
| 64 Propionitrile | 54 | 6.745 | 6.745 | 0.0 | 85 | 140907 | 97.4 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 80 | 102854 | 9.63 | |
| 67 2,2-Dichloropropane | 77 | 6.795 | 6.795 | 0.0 | 64 | 113337 | 8.82 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 93 | 594502 | 97.3 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 90 | 48629 | 9.82 | |
| 70 Chloroform | 83 | 6.959 | 6.959 | 0.0 | 80 | 164386 | 9.89 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.145 | 7.152 | -0.007 | 93 | 80968 | 193.2 | |
| 73 1,1,1-Trichloroethane | 97 | 7.188 | 7.188 | 0.0 | 91 | 129715 | 9.79 | |
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 88 | 140565 | 9.88 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 71 | 104277 | 9.24 | |
| 77 1,2-Dichloroethane | 62 | 7.445 | 7.438 | 0.007 | 90 | 131907 | 9.95 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 94 | 388709 | 9.88 | |
| 80 n-Butanol | 56 | 7.646 | 7.653 | -0.007 | 87 | 105384 | 277.8 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 95 | 91738 | 9.51 | |
| 84 1,2-Dichloropropane | 63 | 8.117 | 8.110 | 0.007 | 92 | 95288 | 9.67 | |
| 86 1,4-Dioxane | 88 | 8.167 | 8.160 | 0.007 | 83 | 41420 | 451.0 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 86 | 55455 | 9.79 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 92 | 111126 | 9.13 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.604 | 0.0 | 85 | 136230 | 9.17 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 97 | 398547 | 39.0 | |
| 93 Toluene | 91 | 8.883 | 8.882 | 0.0 | 98 | 416629 | 10.1 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.968 | 8.975 | -0.007 | 92 | 120269 | 8.82 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 93 | 80492 | 9.71 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 98 | 277895 | 38.5 | |
| 98 1,3-Dichloropropane | 76 | 9.261 | 9.261 | 0.0 | 94 | 148826 | 10.1 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 91 | 72462 | 9.75 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 87 | 73265 | 8.88 | |
| 102 Ethylene Dibromide | 107 | 9.583 | 9.583 | 0.0 | 96 | 79688 | 9.68 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 96 | 126445 | 9.71 | |
| 104 Chlorobenzene | 112 | 9.934 | 9.934 | 0.0 | 94 | 256905 | 9.87 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.962 | 0.007 | 82 | 81713 | 9.01 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 143024 | 9.65 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 99 | 356329 | 19.8 | |
| 109 Styrene | 104 | 10.363 | 10.363 | 0.0 | 87 | 276520 | 9.36 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | 0.0 | 87 | 175261 | 9.78 | |
| 110 Bromoform | 173 | 10.563 | 10.556 | 0.007 | 93 | 44397 | 9.66 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 95 | 463182 | 10.2 | |
| 113 Cyclohexanone | 55 | 10.742 | 10.742 | 0.0 | 92 | 136129 | 373.9 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 95 | 109668 | 9.61 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 80 | 32785 | 10.1 | |
| 118 N-Propylbenzene | 120 | 10.942 | 10.942 | 0.0 | 95 | 125878 | 9.92 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 92 | 106546 | 9.86 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 93 | 371790 | 9.44 | |
| 120 2-Chlorotoluene | 126 | 11.070 | 11.063 | 0.007 | 95 | 106005 | 9.77 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 107588 | 10.1 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 91 | 366812 | 10.0 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.378 | 11.378 | 0.0 | 98 | 383864 | 10.3 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 97543 | 9.33 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.621 | 0.007 | 96 | 404203 | 9.52 | |
| 126 1,3-Dichlorobenzene | 146 | 11.693 | 11.692 | 0.001 | 84 | 204657 | 10.1 | |
| 127 1,4-Dichlorobenzene | 146 | 11.757 | 11.757 | 0.0 | 92 | 199572 | 9.74 | |
| 129 n-Butylbenzene | 91 | 11.986 | 11.986 | 0.0 | 97 | 397074 | 10.3 | |
| 130 1,2-Dichlorobenzene | 146 | 12.122 | 12.114 | 0.008 | 96 | 189408 | 9.81 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.851 | 12.851 | 0.0 | 49 | 18523 | 9.08 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 91 | 125380 | 9.76 | |
| 133 Hexachlorobutadiene | 225 | 13.966 | 13.966 | 0.0 | 91 | 57800 | 9.40 | |
| 134 Naphthalene | 128 | 14.174 | 14.166 | 0.008 | 96 | 331465 | 9.51 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.488 | 14.488 | 0.0 | 92 | 116353 | 9.60 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 37.6 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 29.5 | |
| S 138 Total BTEX | 1 | | | | 0 | | 59.2 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 18.0 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.6 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 29.5 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 19.6 | |

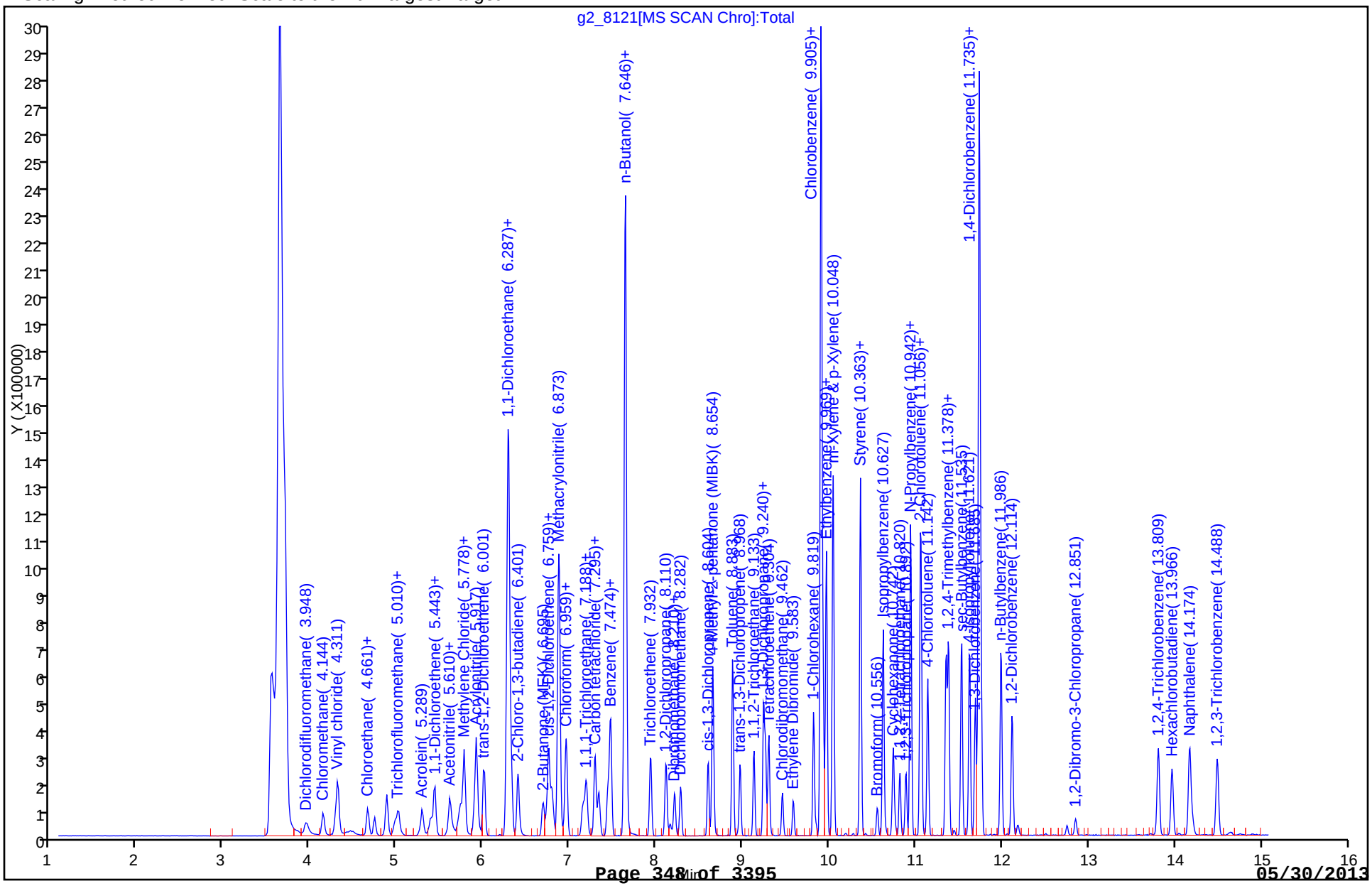
Report Date: 14-May-2013 14:59:10 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8121.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 20:30:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 7 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8122.D
Lims ID: STD020 Client ID:
Inject. Date: 09-May-2013 20:49:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: STD020
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 173584 Lims Sample ID: 8
Sublist: chrom-SO_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 14-May-2013 14:59:10 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: dukesa Date: 09-May-2013 21:43:57

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 98 | 1860450 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 405692 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 95 | 613194 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 97 | 169024 | 17.6 | |
| 27 Chloromethane | 50 | 4.158 | 4.158 | 0.0 | 89 | 207575 | 20.1 | |
| 28 Vinyl chloride | 62 | 4.297 | 4.297 | 0.0 | 84 | 214290 | 19.9 | |
| 31 Bromomethane | 94 | 4.660 | 4.674 | -0.014 | 87 | 162410 | 19.5 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 99 | 139745 | 20.0 | |
| 34 Ethanol | 45 | 5.010 | 4.996 | 0.014 | 39 | 105075 | 1036.1 | |
| 35 Trichlorofluoromethane | 101 | 5.024 | 5.010 | 0.014 | 84 | 257870 | 19.8 | |
| 41 Acrolein | 56 | 5.303 | 5.289 | 0.014 | 90 | 246564 | 217.6 | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.014 | 99 | 278757 | 82.5 | |
| 45 1,1-Dichloroethene | 96 | 5.443 | 5.429 | 0.014 | 97 | 164770 | 20.4 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 97 | 230061 | 20.3 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 98 | 248407 | 227.0 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 98 | 508394 | 453.1 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 94 | 222424 | 19.1 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 99 | 761377 | 219.6 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.015 | 6.001 | 0.014 | 97 | 222072 | 21.6 | |
| 58 Isopropyl ether | 87 | 6.294 | 6.287 | 0.007 | 94 | 777494 | 100.3 | |
| 59 1,1-Dichloroethane | 63 | 6.330 | 6.323 | 0.007 | 93 | 332703 | 21.0 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 88 | 273920 | 20.4 | |
| 62 2-Butanone (MEK) | 43 | 6.694 | 6.694 | 0.0 | 100 | 387142 | 83.3 | |
| 64 Propionitrile | 54 | 6.745 | 6.745 | 0.0 | 90 | 293811 | 224.4 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 80 | 200095 | 20.7 | |
| 67 2,2-Dichloropropane | 77 | 6.795 | 6.795 | 0.0 | 65 | 230216 | 19.8 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 94 | 1186275 | 214.5 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 89 | 89225 | 19.9 | |
| 70 Chloroform | 83 | 6.966 | 6.959 | 0.007 | 80 | 309846 | 20.6 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 92 | 170447 | 449.5 | |
| 73 1,1,1-Trichloroethane | 97 | 7.195 | 7.188 | 0.007 | 90 | 255937 | 21.4 | |
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 89 | 277651 | 21.6 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 82 | 207274 | 20.3 | |
| 77 1,2-Dichloroethane | 62 | 7.445 | 7.438 | 0.007 | 90 | 235851 | 19.7 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 96 | 734397 | 20.6 | |
| 80 n-Butanol | 56 | 7.653 | 7.653 | 0.0 | 89 | 201415 | 586.9 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 98 | 180258 | 20.7 | |
| 84 1,2-Dichloropropane | 63 | 8.117 | 8.110 | 0.007 | 92 | 178098 | 20.0 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 92 | 100394 | 1208.4 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 88 | 99146 | 19.4 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 93 | 204674 | 18.6 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.604 | 0.0 | 90 | 247632 | 18.4 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 97 | 776751 | 84.0 | |
| 93 Toluene | 91 | 8.882 | 8.882 | 0.0 | 98 | 787325 | 21.1 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.975 | 8.975 | 0.0 | 95 | 218723 | 17.0 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 86 | 144254 | 19.2 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 97 | 551706 | 86.5 | |
| 98 1,3-Dichloropropane | 76 | 9.261 | 9.261 | 0.0 | 94 | 257763 | 19.8 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 93 | 139579 | 21.3 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 89 | 137916 | 18.9 | |
| 102 Ethylene Dibromide | 107 | 9.590 | 9.583 | 0.007 | 96 | 143792 | 19.8 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 96 | 237103 | 20.6 | |
| 104 Chlorobenzene | 112 | 9.934 | 9.934 | 0.0 | 90 | 473315 | 20.6 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.962 | 9.962 | 0.0 | 81 | 151446 | 18.9 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 277842 | 21.2 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 99 | 676843 | 42.5 | |
| 109 Styrene | 104 | 10.363 | 10.363 | 0.0 | 88 | 511778 | 19.6 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | 0.0 | 88 | 332674 | 21.0 | |
| 110 Bromoform | 173 | 10.556 | 10.556 | 0.0 | 93 | 78549 | 17.1 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 853536 | 21.6 | |
| 113 Cyclohexanone | 55 | 10.742 | 10.742 | 0.0 | 94 | 297363 | 924.5 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 93 | 202828 | 20.4 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 80 | 60418 | 21.4 | |
| 118 N-Propylbenzene | 120 | 10.942 | 10.942 | 0.0 | 96 | 232896 | 21.1 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 91 | 186983 | 19.9 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 91 | 683400 | 19.9 | |
| 120 2-Chlorotoluene | 126 | 11.063 | 11.063 | 0.0 | 94 | 191074 | 20.2 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 188805 | 20.3 | |
| 122 tert-Butylbenzene | 119 | 11.349 | 11.356 | -0.007 | 93 | 674978 | 21.1 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.378 | 11.378 | 0.0 | 98 | 679605 | 20.9 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 180941 | 19.9 | |
| 125 4-Isopropyltoluene | 119 | 11.621 | 11.621 | 0.0 | 97 | 745569 | 20.2 | |
| 126 1,3-Dichlorobenzene | 146 | 11.693 | 11.692 | 0.0 | 90 | 358414 | 20.3 | |
| 127 1,4-Dichlorobenzene | 146 | 11.757 | 11.757 | 0.0 | 92 | 350905 | 19.7 | |
| 129 n-Butylbenzene | 91 | 11.986 | 11.986 | 0.0 | 95 | 717019 | 21.3 | |
| 130 1,2-Dichlorobenzene | 146 | 12.114 | 12.114 | 0.0 | 95 | 328348 | 19.5 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.851 | 12.851 | 0.0 | 62 | 37834 | 21.3 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 93 | 213082 | 19.0 | |
| 133 Hexachlorobutadiene | 225 | 13.966 | 13.966 | 0.0 | 94 | 103339 | 19.3 | |
| 134 Naphthalene | 128 | 14.166 | 14.166 | 0.0 | 97 | 615139 | 20.3 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.488 | 14.488 | 0.0 | 94 | 201115 | 19.0 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 75.2 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 63.5 | |
| S 138 Total BTEX | 1 | | | | 0 | | 126.4 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 35.4 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 42.3 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 63.5 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 42.3 | |

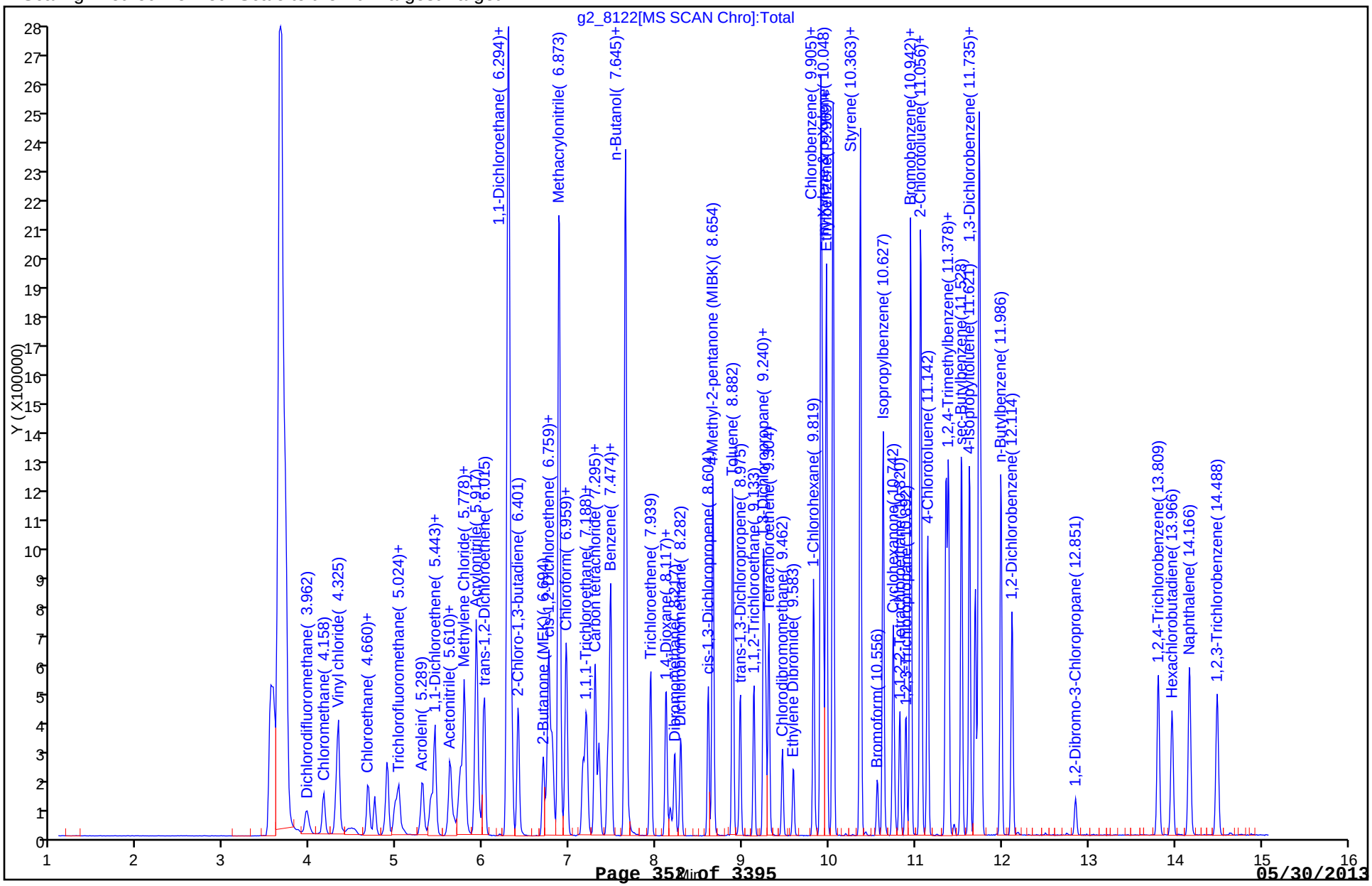
Report Date: 14-May-2013 14:59:11 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8122.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 20:49:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 8 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8123.D
Lims ID: STD050 Client ID:
Inject. Date: 09-May-2013 21:09:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: STD050
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 15
Lims Batch ID: 173584 Lims Sample ID: 9
Sublist: chrom-SO_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 14-May-2013 14:59:11 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: dukesa Date: 09-May-2013 21:55:54

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 98 | 2137454 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 84 | 471230 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 81 | 721913 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 88 | 661979 | 55.5 | |
| 27 Chloromethane | 50 | 4.158 | 4.158 | 0.0 | 89 | 713192 | 60.2 | |
| 28 Vinyl chloride | 62 | 4.297 | 4.297 | 0.0 | 84 | 716349 | 57.9 | |
| 31 Bromomethane | 94 | 4.674 | 4.674 | 0.0 | 89 | 524933 | 54.9 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 100 | 452418 | 56.2 | |
| 34 Ethanol | 45 | 4.996 | 4.996 | 0.0 | 58 | 268932 | 2308.1 | |
| 35 Trichlorofluoromethane | 101 | 5.010 | 5.010 | 0.0 | 93 | 816050 | 54.6 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 95 | 714395 | 548.7 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 97 | 734036 | 189.0 | |
| 45 1,1-Dichloroethene | 96 | 5.429 | 5.429 | 0.0 | 90 | 492340 | 52.6 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 97 | 742400 | 56.9 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 100 | 556980 | 443.1 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 96 | 1289322 | 1000.2 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 84 | 638842 | 47.8 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 98 | 2108317 | 529.3 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 97 | 673769 | 56.9 | |
| 58 Isopropyl ether | 87 | 6.287 | 6.287 | 0.0 | 93 | 2541070 | 285.3 | |
| 59 1,1-Dichloroethane | 63 | 6.323 | 6.323 | 0.0 | 81 | 1015491 | 55.7 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 92 | 831309 | 53.9 | |
| 62 2-Butanone (MEK) | 43 | 6.694 | 6.694 | 0.0 | 100 | 1121654 | 210.0 | |
| 64 Propionitrile | 54 | 6.745 | 6.745 | 0.0 | 79 | 782826 | 520.4 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 66 | 617088 | 55.6 | |
| 67 2,2-Dichloropropane | 77 | 6.795 | 6.795 | 0.0 | 65 | 742437 | 55.6 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 93 | 3507130 | 552.0 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 91 | 288909 | 56.1 | |
| 70 Chloroform | 83 | 6.959 | 6.959 | 0.0 | 80 | 947877 | 54.8 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 93 | 449552 | 1032.0 | |
| 73 1,1,1-Trichloroethane | 97 | 7.188 | 7.188 | 0.0 | 93 | 796040 | 57.8 | |
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 94 | 821741 | 55.6 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 84 | 647745 | 55.2 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 97 | 756252 | 54.9 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 96 | 2271214 | 55.5 | |
| 80 n-Butanol | 56 | 7.653 | 7.653 | 0.0 | 90 | 548094 | 1390.0 | |
| 81 Trichloroethene | 95 | 7.931 | 7.931 | 0.0 | 95 | 554892 | 55.4 | |
| 84 1,2-Dichloropropane | 63 | 8.110 | 8.110 | 0.0 | 94 | 571697 | 55.8 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 90 | 254439 | 2665.6 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 88 | 324584 | 55.1 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 96 | 692754 | 54.8 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.604 | 0.0 | 92 | 853450 | 54.0 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 97 | 2378098 | 224.0 | |
| 93 Toluene | 91 | 8.882 | 8.882 | 0.0 | 98 | 2364788 | 55.1 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.975 | 8.975 | 0.0 | 95 | 763842 | 50.2 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 91 | 469716 | 54.5 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 97 | 1703020 | 229.8 | |
| 98 1,3-Dichloropropane | 76 | 9.261 | 9.261 | 0.0 | 95 | 831678 | 55.1 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 87 | 408338 | 53.5 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 90 | 487812 | 57.6 | |
| 102 Ethylene Dibromide | 107 | 9.583 | 9.583 | 0.0 | 98 | 473553 | 56.1 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 98 | 689961 | 51.6 | |
| 104 Chlorobenzene | 112 | 9.934 | 9.934 | 0.0 | 94 | 1438768 | 53.8 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.962 | 9.962 | 0.0 | 87 | 505467 | 54.3 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 820348 | 53.9 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 99 | 2015988 | 109.0 | |
| 109 Styrene | 104 | 10.363 | 10.363 | 0.0 | 88 | 1648186 | 54.4 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | 0.0 | 85 | 1019783 | 55.4 | |
| 110 Bromoform | 173 | 10.556 | 10.556 | 0.0 | 95 | 290496 | 49.8 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 2535970 | 54.5 | |
| 113 Cyclohexanone | 55 | 10.742 | 10.742 | 0.0 | 94 | 803958 | 2152.0 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 86 | 628840 | 53.8 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 80 | 188429 | 56.6 | |
| 118 N-Propylbenzene | 120 | 10.942 | 10.942 | 0.0 | 95 | 683450 | 52.5 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 96 | 594697 | 53.7 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 93 | 2041962 | 50.6 | |
| 120 2-Chlorotoluene | 126 | 11.063 | 11.063 | 0.0 | 94 | 577379 | 51.9 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 562688 | 51.5 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 91 | 2026916 | 53.9 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.378 | 11.378 | 0.0 | 98 | 2047192 | 53.4 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 528096 | 49.2 | |
| 125 4-Isopropyltoluene | 119 | 11.621 | 11.621 | 0.0 | 97 | 2141952 | 49.2 | |
| 126 1,3-Dichlorobenzene | 146 | 11.692 | 11.692 | 0.0 | 97 | 1072411 | 51.5 | |
| 127 1,4-Dichlorobenzene | 146 | 11.757 | 11.757 | 0.0 | 93 | 1069129 | 50.9 | |
| 129 n-Butylbenzene | 91 | 11.986 | 11.986 | 0.0 | 96 | 2023677 | 51.1 | |
| 130 1,2-Dichlorobenzene | 146 | 12.114 | 12.114 | 0.0 | 97 | 1042132 | 52.6 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.851 | 12.851 | 0.0 | 76 | 117650 | 56.2 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 94 | 670821 | 50.9 | |
| 133 Hexachlorobutadiene | 225 | 13.966 | 13.966 | 0.0 | 97 | 297115 | 47.1 | |
| 134 Naphthalene | 128 | 14.166 | 14.166 | 0.0 | 97 | 2018986 | 56.5 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.488 | 14.488 | 0.0 | 94 | 659357 | 53.0 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 217.0 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 164.4 | |
| S 138 Total BTEX | 1 | | | | 0 | | 329.0 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 104.2 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 112.5 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 164.4 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 112.5 | |

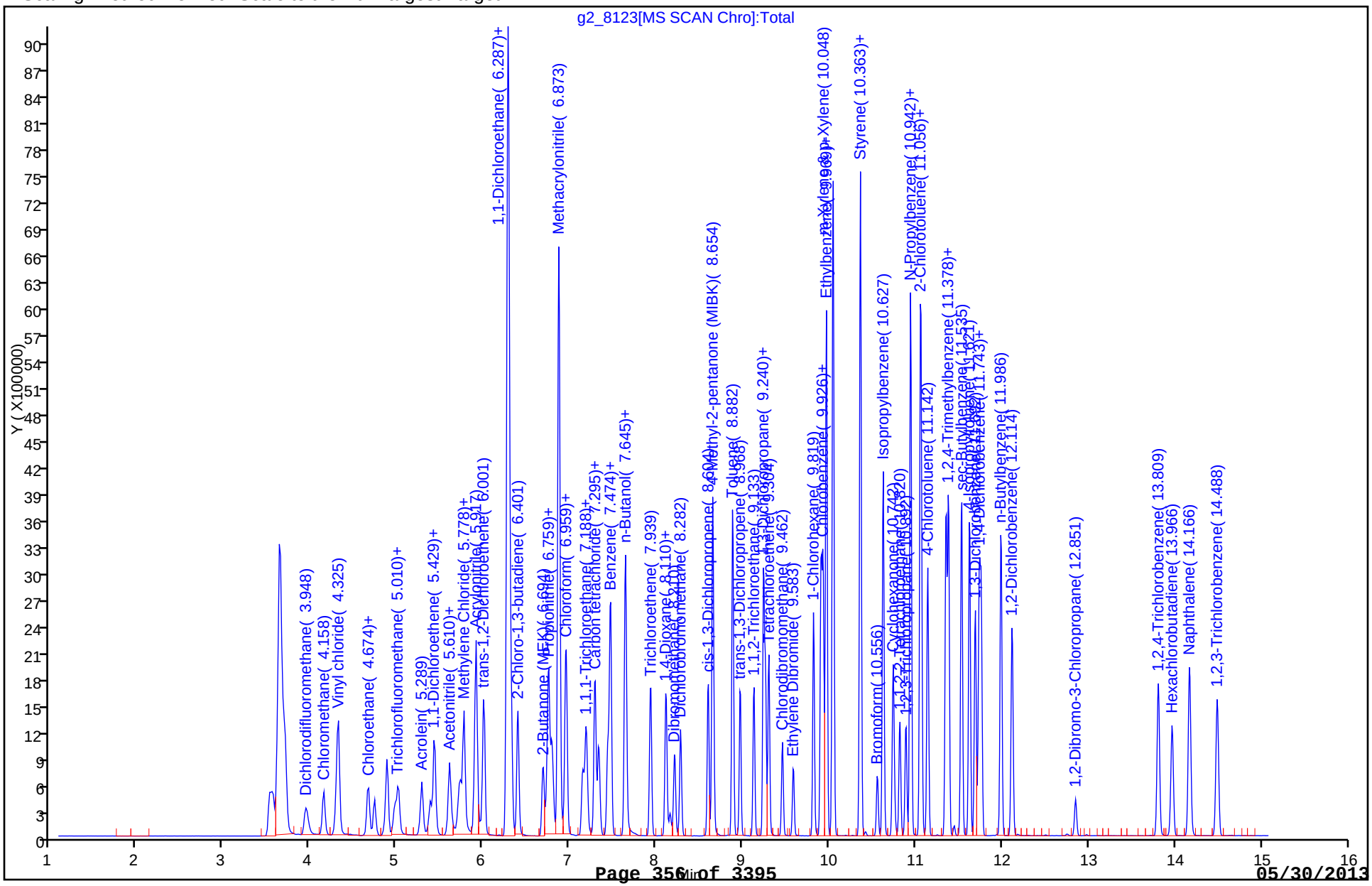
Report Date: 14-May-2013 14:59:11 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8123.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 21:09:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 9 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8124.D | | |
| Lims ID: | STD100 | Client ID: | |
| Inject. Date: | 09-May-2013 21:28:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | STD100 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 16 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 10 |
| Sublist: | chrom-SO_VMSG2_8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 14-May-2013 14:59:12 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | XAWRK009 | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 98 | 2185536 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 80 | 495569 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 95 | 755626 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.962 | 3.948 | 0.014 | 99 | 1290733 | 104.1 | |
| 27 Chloromethane | 50 | 4.172 | 4.158 | 0.014 | 89 | 1359929 | 112.2 | |
| 28 Vinyl chloride | 62 | 4.325 | 4.297 | 0.028 | 83 | 1376088 | 108.7 | |
| 31 Bromomethane | 94 | 4.674 | 4.674 | 0.0 | 88 | 1046753 | 107.0 | |
| 32 Chloroethane | 64 | 4.758 | 4.744 | 0.014 | 100 | 866264 | 105.3 | |
| 34 Ethanol | 45 | 5.010 | 4.996 | 0.014 | 98 | 660525 | 5544.3 | |
| 35 Trichlorofluoromethane | 101 | 5.024 | 5.010 | 0.014 | 96 | 1612952 | 105.5 | |
| 41 Acrolein | 56 | 5.303 | 5.289 | 0.014 | 96 | 1422409 | 1068.4 | |
| 42 Acetone | 43 | 5.401 | 5.387 | 0.014 | 98 | 1582126 | 398.4 | |
| 45 1,1-Dichloroethene | 96 | 5.443 | 5.429 | 0.014 | 97 | 965587 | 100.4 | |
| 47 Iodomethane | 142 | 5.624 | 5.610 | 0.014 | 98 | 1461749 | 109.5 | |
| 46 Acetonitrile | 41 | 5.624 | 5.610 | 0.014 | 99 | 1363451 | 1060.8 | |
| 51 2-Methyl-2-propanol | 59 | 5.750 | 5.736 | 0.014 | 98 | 3013592 | 2286.3 | |
| 52 Methylene Chloride | 84 | 5.792 | 5.778 | 0.014 | 88 | 1228379 | 89.9 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 98 | 4330798 | 1063.3 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.015 | 6.001 | 0.014 | 95 | 1310061 | 108.3 | |
| 58 Isopropyl ether | 87 | 6.294 | 6.287 | 0.007 | 92 | 5045680 | 554.0 | |
| 59 1,1-Dichloroethane | 63 | 6.330 | 6.323 | 0.007 | 91 | 2045316 | 109.7 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.409 | 6.401 | 0.007 | 88 | 1659038 | 105.3 | |
| 62 2-Butanone (MEK) | 43 | 6.702 | 6.694 | 0.008 | 100 | 2300208 | 421.1 | |
| 64 Propionitrile | 54 | 6.745 | 6.745 | 0.0 | 91 | 1684294 | 1095.0 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 66 | 1247972 | 110.0 | |
| 67 2,2-Dichloropropane | 77 | 6.802 | 6.795 | 0.007 | 82 | 1495205 | 109.5 | |
| 68 Methacrylonitrile | 41 | 6.880 | 6.873 | 0.007 | 92 | 6999097 | 1077.3 | |
| 69 Chlorobromomethane | 128 | 6.959 | 6.952 | 0.007 | 90 | 573703 | 109.0 | |
| 70 Chloroform | 83 | 6.966 | 6.959 | 0.007 | 80 | 1906506 | 107.9 | |
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 94 | 994685 | 2233.1 | |
| 73 1,1,1-Trichloroethane | 97 | 7.195 | 7.188 | 0.007 | 96 | 1571555 | 111.6 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 95 | 1658142 | 109.7 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 76 | 1299998 | 108.4 | |
| 77 1,2-Dichloroethane | 62 | 7.445 | 7.438 | 0.007 | 91 | 1506249 | 106.9 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 97 | 4557144 | 109.0 | |
| 80 n-Butanol | 56 | 7.653 | 7.653 | 0.0 | 90 | 1229667 | 3050.0 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 95 | 1153963 | 112.6 | |
| 84 1,2-Dichloropropane | 63 | 8.117 | 8.110 | 0.007 | 93 | 1173603 | 112.0 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 94 | 527317 | 5402.9 | |
| 87 Dibromomethane | 93 | 8.218 | 8.210 | 0.008 | 88 | 681023 | 113.2 | |
| 88 Dichlorobromomethane | 83 | 8.289 | 8.282 | 0.007 | 99 | 1419182 | 109.7 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.604 | 0.0 | 91 | 1814903 | 108.8 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 97 | 4889710 | 450.4 | |
| 93 Toluene | 91 | 8.890 | 8.882 | 0.008 | 98 | 4850802 | 110.5 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.975 | 8.975 | 0.0 | 94 | 1623063 | 103.5 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 85 | 978714 | 111.1 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 97 | 3529953 | 453.0 | |
| 98 1,3-Dichloropropane | 76 | 9.269 | 9.261 | 0.008 | 92 | 1752050 | 110.3 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 97 | 870597 | 108.5 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 88 | 1029811 | 115.6 | |
| 102 Ethylene Dibromide | 107 | 9.590 | 9.583 | 0.007 | 98 | 994886 | 112.0 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 98 | 1513361 | 107.7 | |
| 104 Chlorobenzene | 112 | 9.934 | 9.934 | 0.0 | 93 | 3066537 | 109.1 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.962 | 0.007 | 86 | 1079837 | 110.3 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 1790282 | 111.9 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 97 | 4379652 | 225.2 | |
| 109 Styrene | 104 | 10.363 | 10.363 | 0.0 | 88 | 3653771 | 114.6 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | 0.0 | 85 | 2209338 | 114.2 | |
| 110 Bromoform | 173 | 10.563 | 10.556 | 0.007 | 95 | 646744 | 103.0 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 5444046 | 111.8 | |
| 113 Cyclohexanone | 55 | 10.742 | 10.742 | 0.0 | 94 | 1758362 | 4475.5 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 92 | 1319625 | 107.8 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 85 | 388167 | 111.5 | |
| 118 N-Propylbenzene | 120 | 10.942 | 10.942 | 0.0 | 95 | 1552660 | 114.0 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 96 | 1313376 | 113.2 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 92 | 4577008 | 108.3 | |
| 120 2-Chlorotoluene | 126 | 11.063 | 11.063 | 0.0 | 94 | 1316230 | 113.0 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 1279578 | 111.8 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 88 | 4501331 | 114.4 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.378 | 11.378 | 0.0 | 98 | 4626717 | 115.4 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 1205883 | 107.4 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.621 | 0.007 | 94 | 4941610 | 108.5 | |
| 126 1,3-Dichlorobenzene | 146 | 11.693 | 11.692 | 0.001 | 90 | 2407692 | 110.4 | |
| 127 1,4-Dichlorobenzene | 146 | 11.757 | 11.757 | 0.0 | 93 | 2425262 | 110.2 | |
| 129 n-Butylbenzene | 91 | 11.986 | 11.986 | 0.0 | 95 | 4775131 | 115.2 | |
| 130 1,2-Dichlorobenzene | 146 | 12.114 | 12.114 | 0.0 | 96 | 2321365 | 112.0 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.851 | 12.851 | 0.0 | 80 | 262874 | 120.0 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 91 | 1565851 | 113.5 | |
| 133 Hexachlorobutadiene | 225 | 13.966 | 13.966 | 0.0 | 97 | 735326 | 111.4 | |
| 134 Naphthalene | 128 | 14.167 | 14.166 | 0.0 | 97 | 4393755 | 117.4 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.488 | 14.488 | 0.0 | 92 | 1493217 | 114.7 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 436.2 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 339.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 138 Total BTEX | 1 | | | | 0 | | 670.8 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 212.2 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 218.2 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 339.4 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 218.2 | |

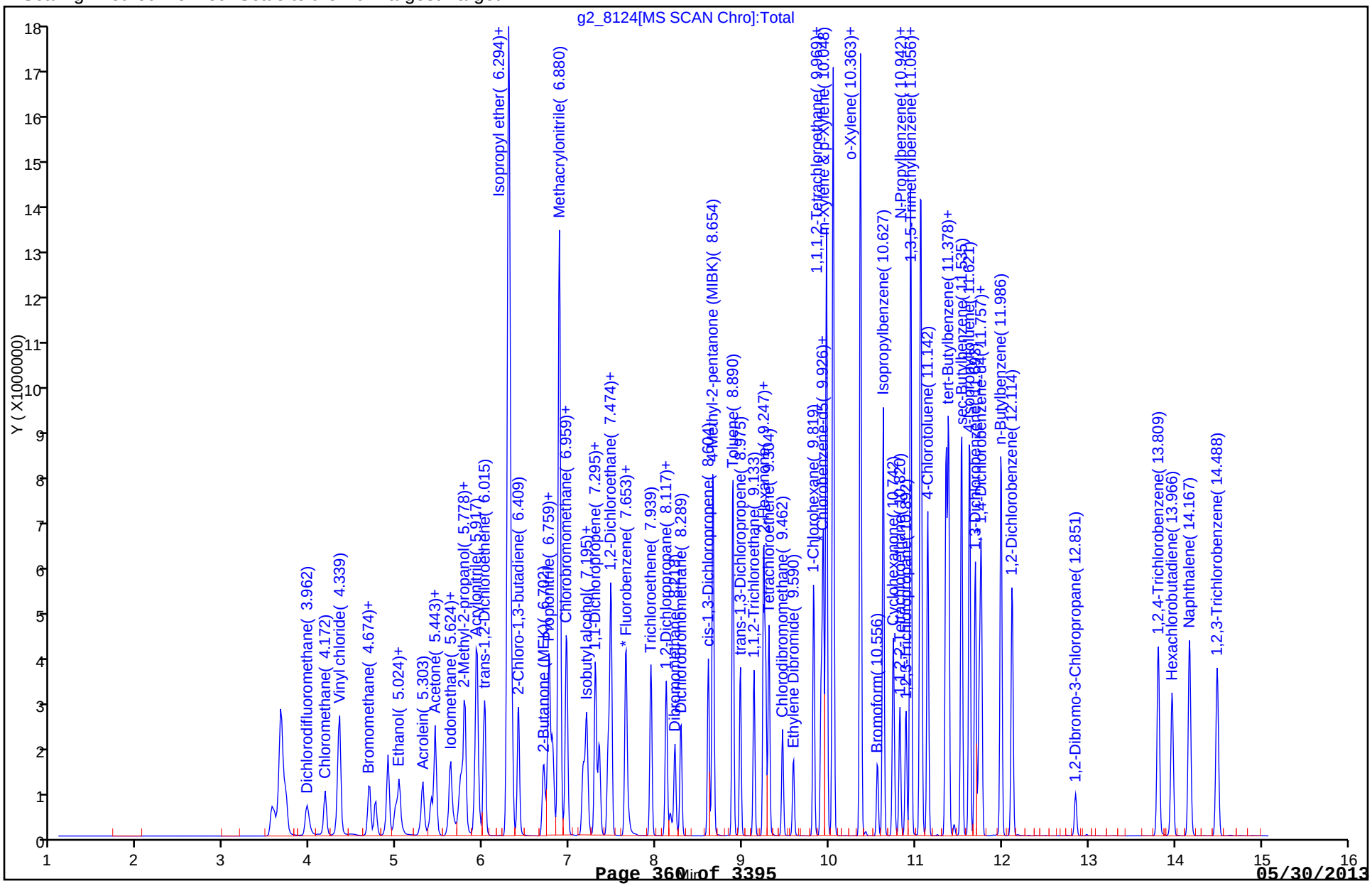
Report Date: 14-May-2013 14:59:12 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8124.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 21:28:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 10 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8125.D
Lims ID: STD200 Client ID:
Inject. Date: 09-May-2013 21:47:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: STD200
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 17
Lims Batch ID: 173584 Lims Sample ID: 11
Sublist: chrom-SO_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 14-May-2013 14:59:13 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK009

First Level Reviewer: dukesa Date: 09-May-2013 22:05:06

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 98 | 2313535 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 81 | 531545 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 96 | 785185 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 99 | 2555760 | 193.2 | |
| 27 Chloromethane | 50 | 4.172 | 4.158 | 0.014 | 99 | 2771553 | 216.0 | |
| 28 Vinyl chloride | 62 | 4.311 | 4.297 | 0.014 | 97 | 2793537 | 208.5 | |
| 31 Bromomethane | 94 | 4.674 | 4.674 | 0.0 | 89 | 2268610 | 219.1 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 95 | 1785865 | 205.0 | |
| 34 Ethanol | 45 | 5.010 | 4.996 | 0.014 | 96 | 1306488 | 10360 | |
| 35 Trichlorofluoromethane | 101 | 5.024 | 5.010 | 0.014 | 100 | 3267067 | 201.8 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 96 | 2901887 | 2059.0 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 98 | 3141043 | 747.1 | |
| 45 1,1-Dichloroethene | 96 | 5.443 | 5.429 | 0.014 | 99 | 1995339 | 195.7 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 97 | 3027753 | 214.3 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 99 | 2656764 | 1952.7 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 97 | 5888435 | 4220.3 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 92 | 2533349 | 175.1 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 98 | 8633525 | 2002.5 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 96 | 2732856 | 213.4 | |
| 58 Isopropyl ether | 87 | 6.294 | 6.287 | 0.007 | 83 | 10450632 | 1084.0 | |
| 59 1,1-Dichloroethane | 63 | 6.330 | 6.323 | 0.007 | 92 | 4162392 | 210.9 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 89 | 3386733 | 203.0 | |
| 62 2-Butanone (MEK) | 43 | 6.694 | 6.694 | 0.0 | 100 | 4689134 | 811.0 | |
| 64 Propionitrile | 54 | 6.744 | 6.745 | -0.001 | 97 | 3344539 | 2054.2 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 74 | 2560627 | 213.2 | |
| 67 2,2-Dichloropropane | 77 | 6.795 | 6.795 | 0.0 | 84 | 3076815 | 212.9 | |
| 68 Methacrylonitrile | 41 | 6.880 | 6.873 | 0.007 | 91 | 13470149 | 1958.7 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 94 | 1216638 | 218.4 | |
| 70 Chloroform | 83 | 6.966 | 6.959 | 0.007 | 93 | 3894444 | 208.2 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 94 | 1962373 | 4161.9 | |
| 73 1,1,1-Trichloroethane | 97 | 7.195 | 7.188 | 0.007 | 96 | 3242034 | 217.5 | |
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 93 | 3379652 | 211.3 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 85 | 2706738 | 213.2 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 97 | 3040620 | 203.9 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 97 | 9179086 | 207.4 | |
| 80 n-Butanol | 56 | 7.653 | 7.653 | 0.0 | 90 | 2415138 | 5659.0 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 99 | 2373403 | 218.7 | |
| 84 1,2-Dichloropropane | 63 | 8.117 | 8.110 | 0.007 | 95 | 2416491 | 217.9 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 86 | 1048432 | 10148 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 87 | 1387680 | 217.8 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 96 | 2954368 | 215.8 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.604 | 0.0 | 92 | 3747171 | 209.0 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 95 | 9610314 | 836.2 | |
| 93 Toluene | 91 | 8.890 | 8.882 | 0.008 | 99 | 9588942 | 206.3 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.975 | 8.975 | 0.0 | 97 | 3343251 | 200.7 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 91 | 1992502 | 213.7 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 96 | 6980042 | 835.1 | |
| 98 1,3-Dichloropropane | 76 | 9.269 | 9.261 | 0.007 | 92 | 3567579 | 209.4 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 92 | 1795944 | 208.8 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 89 | 2163751 | 226.5 | |
| 102 Ethylene Dibromide | 107 | 9.590 | 9.583 | 0.007 | 98 | 2050245 | 215.2 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 99 | 3068252 | 203.6 | |
| 104 Chlorobenzene | 112 | 9.933 | 9.934 | -0.001 | 93 | 6181275 | 205.1 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.962 | 0.007 | 88 | 2294582 | 218.5 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 3731727 | 217.5 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 91 | 8920801 | 427.6 | |
| 109 Styrene | 104 | 10.362 | 10.363 | -0.001 | 88 | 7549371 | 220.7 | |
| 108 o-Xylene | 106 | 10.362 | 10.363 | -0.001 | 83 | 4619831 | 222.7 | |
| 110 Bromoform | 173 | 10.556 | 10.556 | 0.0 | 95 | 1359773 | 199.7 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 10664935 | 210.8 | |
| 113 Cyclohexanone | 55 | 10.741 | 10.742 | -0.001 | 94 | 3464734 | 8221.7 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 86 | 2641738 | 207.6 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 87 | 776044 | 214.5 | |
| 118 N-Propylbenzene | 120 | 10.949 | 10.942 | 0.007 | 93 | 3239883 | 229.0 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 95 | 2766747 | 229.6 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 92 | 9092807 | 207.0 | |
| 120 2-Chlorotoluene | 126 | 11.063 | 11.063 | 0.0 | 94 | 2748713 | 227.0 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 97 | 2600442 | 218.7 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 92 | 9082431 | 222.2 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.378 | 0.007 | 97 | 9096172 | 218.3 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 95 | 2496377 | 214.0 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.621 | 0.007 | 96 | 9606090 | 202.9 | |
| 126 1,3-Dichlorobenzene | 146 | 11.692 | 11.692 | 0.0 | 97 | 4816077 | 212.6 | |
| 127 1,4-Dichlorobenzene | 146 | 11.757 | 11.757 | 0.0 | 93 | 4811283 | 210.5 | |
| 129 n-Butylbenzene | 91 | 11.986 | 11.986 | 0.0 | 94 | 9138232 | 212.1 | |
| 130 1,2-Dichlorobenzene | 146 | 12.114 | 12.114 | 0.0 | 96 | 4608158 | 214.0 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.851 | 12.851 | 0.0 | 82 | 525099 | 230.7 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 93 | 2968526 | 207.1 | |
| 133 Hexachlorobutadiene | 225 | 13.973 | 13.966 | 0.007 | 96 | 1404750 | 204.7 | |
| 134 Naphthalene | 128 | 14.166 | 14.166 | 0.0 | 97 | 8214027 | 211.2 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.488 | 14.488 | 0.0 | 95 | 2815086 | 208.2 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 850.1 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 650.3 | |
| S 138 Total BTEX | 1 | | | | 0 | | 1281.4 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 409.6 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 426.5 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 650.3 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 426.5 | |

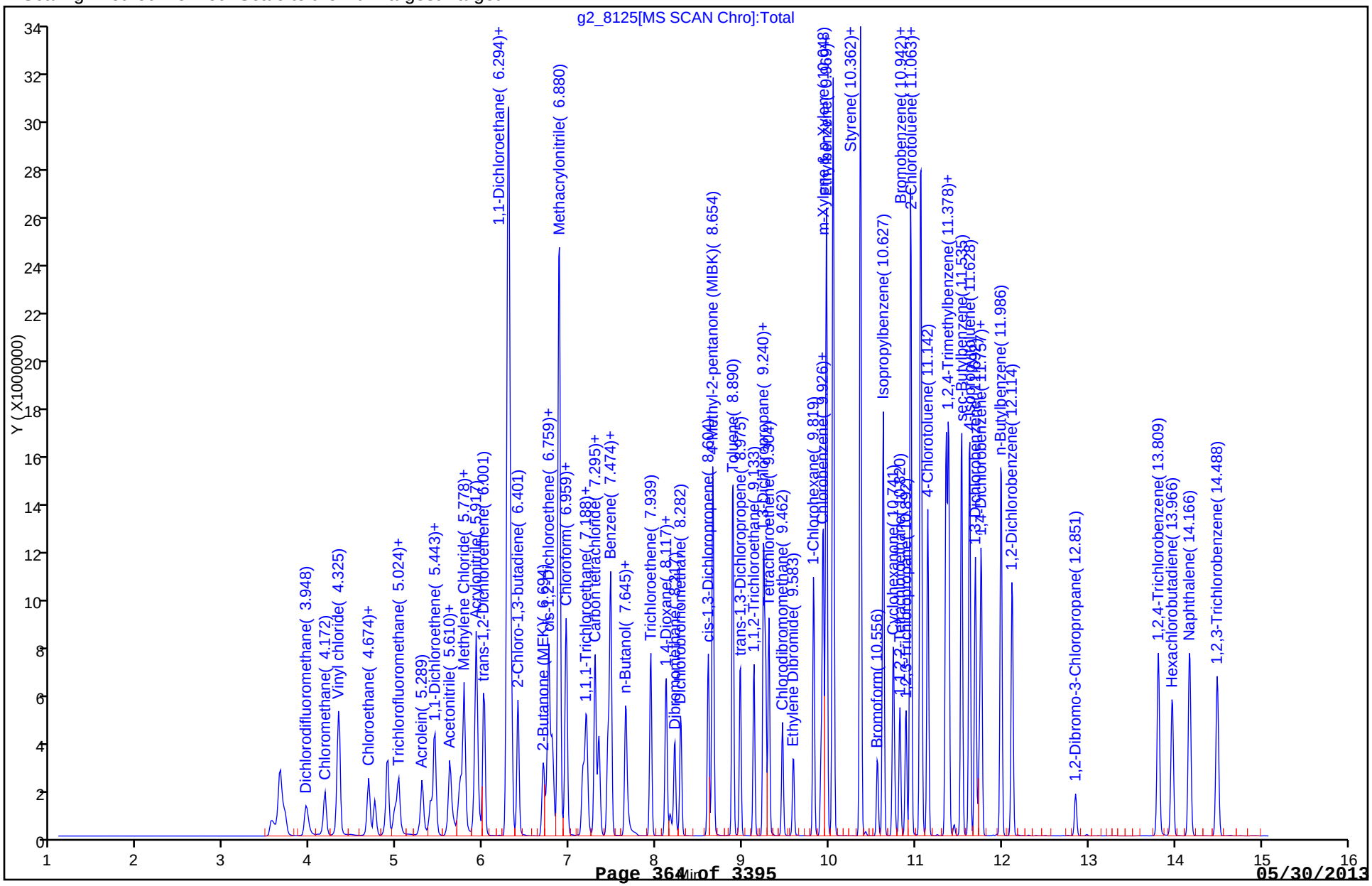
Report Date: 14-May-2013 14:59:13 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8125.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 21:47:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 11 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 22:26 Calibration End Date: 05/10/2013 00:41 Calibration ID: 14003

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD001 280-173584/12 | g2_8127.D |
| Level 2 | STD002 280-173584/13 | g2_8128.D |
| Level 3 | STD005 280-173584/14 | g2_8129.D |
| Level 4 | STD010 280-173584/15 | g2_8130.D |
| Level 5 | STD020 280-173584/16 | g2_8131.D |
| Level 6 | ICIS 280-173584/17 | g2_8132.D |
| Level 7 | STD100 280-173584/18 | g2_8133.D |
| Level 8 | STD200 280-173584/19 | g2_8134.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4375<br>0.4816 | 0.4407<br>0.4611 | 0.4357<br>0.4311 | 0.4371 | 0.4361 | Ave | | 0.4451 | | | | 3.9 | | 15.0 | | | |
| Ethyl ether | 0.1978<br>0.2223 | 0.1985<br>0.2109 | 0.1920<br>0.2041 | 0.1947 | 0.1961 | Ave | | 0.2020 | | | | 5.0 | | 15.0 | | | |
| 2,2-Dichloro-1,1,1-trifluoroethane | 0.3469<br>0.3671 | 0.3355<br>0.3491 | 0.3359<br>0.3322 | 0.3417 | 0.3305 | Ave | | 0.3424 | | | | 3.5 | | 15.0 | | | |
| Propene oxide | 0.0540<br>0.0582 | 0.0554<br>0.0532 | 0.0548<br>0.0483 | 0.0515 | 0.0522 | Ave | | 0.0535 | | | | 5.5 | | 15.0 | | | |
| Isopropyl alcohol | 0.0170<br>0.0191 | 0.0197<br>0.0161 | 0.0189<br>0.0156 | 0.0148 | 0.0164 | Ave | | 0.0172 | | | | 10.0 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.1614<br>0.1872 | 0.1675<br>0.1758 | 0.1639<br>0.1654 | 0.1682 | 0.1628 | Ave | | 0.1690 | | | | 5.1 | | 15.0 | | | |
| Allyl chloride | 0.3368<br>0.3596 | 0.3479<br>0.3433 | 0.2967<br>0.3416 | 0.3141 | 0.3160 | Ave | | 0.3320 | | | | 6.3 | | 15.0 | | | |
| Carbon disulfide | 0.7993<br>0.8722 | 0.7638<br>0.8316 | 0.7479<br>0.7848 | 0.7697 | 0.7643 | Ave | | 0.7917 | | | | 5.3 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.6784<br>0.7695 | 0.6712<br>0.7448 | 0.6837<br>0.7156 | 0.6612 | 0.6839 | Ave | | 0.7010 | | | | 5.5 | | 15.0 | | | |
| Hexane | +++++<br>1.7593 | 1.8243<br>1.6621 | 1.6346<br>1.5884 | 1.7020 | 1.5409 | Ave | | 1.6731 | | | | 5.8 | | 15.0 | | | |
| Tert-butyl ethyl ether | 0.6783<br>0.7827 | 0.6892<br>0.7213 | 0.7005<br>0.5458 | 0.6940 | 0.7112 | Ave | | 0.6904 | | | | 9.7 | | 15.0 | | | |
| 2-Butanol | 0.0200<br>0.0234 | 0.0207<br>0.0192 | 0.0201<br>0.0213 | 0.0178 | 0.0193 | Ave | | 0.0202 | | | | 8.2 | | 15.0 | | | |
| Tetrahydrofuran | 0.0759<br>0.0807 | 0.0748<br>0.0760 | 0.0734<br>0.0739 | 0.0686 | 0.0690 | Ave | | 0.0741 | | | | 5.3 | | 15.0 | | | |
| Cyclohexane | 0.4263<br>0.4575 | 0.3933<br>0.4379 | 0.4109<br>0.4112 | 0.4110 | 0.4121 | Ave | | 0.4200 | | | | 4.7 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 22:26 Calibration End Date: 05/10/2013 00:41 Calibration ID: 14003

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Tert-amyl methyl ether | 0.5933<br>0.7023 | 0.5958<br>0.6565 | 0.6160<br>0.4981 | 0.6103 | 0.6297 | Ave | | 0.6128 | | | | 9.6 | | 15.0 | | | |
| 2-Pentanone | 0.2474<br>0.2400 | 0.2191<br>0.2270 | 0.2227<br>0.2152 | 0.2014 | 0.2137 | Ave | | 0.2233 | | | | 6.6 | | 15.0 | | | |
| Methyl methacrylate | 0.0452<br>0.0685 | 0.0558<br>0.0655 | 0.0547<br>0.0648 | 0.0578 | 0.0595 | Ave | | 0.0590 | | | | 13.0 | | 15.0 | | | |
| Methylcyclohexane | 0.3412<br>0.3728 | 0.3363<br>0.3575 | 0.3364<br>0.3330 | 0.3469 | 0.3456 | Ave | | 0.3462 | | | | 3.8 | | 15.0 | | | |
| 2-Nitropropane | 0.0563<br>0.0576 | 0.0492<br>0.0582 | 0.0427<br>0.0582 | 0.0421 | 0.0441 | Ave | | 0.0511 | | | | 14.0 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | +++++<br>0.1530 | +++++<br>0.1790 | 0.1220<br>+++++ | 0.1212 | 0.1294 | Lin1 | -0.429 | 0.1735 | | | | | | | 0.9910 | | 0.9900 |
| Ethyl methacrylate | 1.0528<br>1.4686 | 1.0770<br>1.4151 | 1.1661<br>1.3766 | 1.1880 | 1.2679 | Ave | | 1.2515 | | | | 12.0 | | 15.0 | | | |
| cis-1,4-Dichloro-2-butene | 0.1017<br>0.1100 | 0.0858<br>0.1093 | 0.0981<br>0.1089 | 0.0871 | 0.0886 | Ave | | 0.0987 | | | | 11.0 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1205<br>0.1575 | 0.1225<br>0.1498 | 0.1247<br>0.1480 | 0.1168 | 0.1317 | Ave | | 0.1340 | | | | 12.0 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.2044<br>0.2158 | 0.2103<br>0.2073 | 0.2059<br>0.2073 | 0.2000 | 0.2100 | Ave | | 0.2076 | | | | 2.2 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.2806<br>0.2681 | 0.2795<br>0.2577 | 0.2634<br>0.2510 | 0.2555 | 0.2609 | Ave | | 0.2646 | | | | 4.1 | | 15.0 | | | |
| Toluene-d8 (Surr) | 4.1642<br>3.8302 | 3.6975<br>3.7099 | 3.6818<br>3.5337 | 3.7888 | 3.8150 | Ave | | 3.7776 | | | | 4.8 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 1.0590<br>0.8910 | 0.8275<br>0.8604 | 0.8356<br>0.8204 | 0.8393 | 0.8661 | Ave | | 0.8749 | | | | 8.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 22:26 Calibration End Date: 05/10/2013 00:41 Calibration ID: 14003

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD001 280-173584/12 | g2_8127.D |
| Level 2 | STD002 280-173584/13 | g2_8128.D |
| Level 3 | STD005 280-173584/14 | g2_8129.D |
| Level 4 | STD010 280-173584/15 | g2_8130.D |
| Level 5 | STD020 280-173584/16 | g2_8131.D |
| Level 6 | ICIS 280-173584/17 | g2_8132.D |
| Level 7 | STD100 280-173584/18 | g2_8133.D |
| Level 8 | STD200 280-173584/19 | g2_8134.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 17765<br>1083325 | 36202<br>2169870 | 94872<br>4251806 | 191479 | 389472 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Ethyl ether | FB | Ave | 8030<br>499982 | 16309<br>992185 | 41806<br>2012854 | 85288 | 175129 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2,2-Dichloro-1,1,1-trifluoroethane | FB | Ave | 14086<br>825818 | 27558<br>1642576 | 73143<br>3276588 | 149714 | 295157 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Propene oxide | FB | Ave | 109631<br>6549177 | 227497<br>12526152 | 596354<br>23818566 | 1127702 | 2331054 | 50.0<br>2500 | 100<br>5000 | 250<br>10000 | 500 | 1000 |
| Isopropyl alcohol | FB | Ave | 13813<br>857146 | 32307<br>1510594 | 82392<br>3071278 | 130102 | 292776 | 20.0<br>1000 | 40.0<br>2000 | 100<br>4000 | 200 | 400 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | FB | Ave | 6554<br>421157 | 13761<br>827177 | 35683<br>1631275 | 73705 | 145417 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Allyl chloride | FB | Ave | 13676<br>808972 | 28579<br>1615479 | 64611<br>3369219 | 137621 | 282243 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Carbon disulfide | FB | Ave | 32454<br>1961785 | 62747<br>3912876 | 162838<br>7739433 | 337187 | 682568 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Methyl tert-butyl ether | FB | Ave | 27547<br>1730871 | 55140<br>3504425 | 148868<br>7057174 | 289661 | 610784 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Hexane | CBZ | Ave | +++++<br>879172 | 32716<br>1730117 | 79329<br>3373359 | 161242 | 304363 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Tert-butyl ethyl ether | FB | Ave | 137712<br>8802363 | 283074<br>16970982 | 762591<br>26912999 | 1520169 | 3175905 | 5.00<br>250 | 10.0<br>500 | 25.0<br>1000 | 50.0 | 100 |
| 2-Butanol | FB | Ave | 29523<br>1916107 | 62047<br>3289544 | 159372<br>7647181 | 284033 | 628685 | 36.4<br>1821 | 72.8<br>3642 | 182<br>7283 | 364 | 728 |
| Tetrahydrofuran | FB | Ave | 6161<br>363195 | 12283<br>715628 | 31975<br>1458533 | 60131 | 123236 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| Cyclohexane | FB | Ave | 17311<br>1029045 | 32308<br>2060573 | 89463<br>4055497 | 180034 | 368008 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Tert-amyl methyl ether | FB | Ave | 120444<br>7898981 | 244737<br>15446632 | 670643<br>24560046 | 1336742 | 2811705 | 5.00<br>250 | 10.0<br>500 | 25.0<br>1000 | 50.0 | 100 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/09/2013 22:26 Calibration End Date: 05/10/2013 00:41 Calibration ID: 14003

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 2-Pentanone | FB | Ave | 40186<br>2159207 | 72009<br>4272235 | 193983<br>8490422 | 353007 | 763507 | 4.00<br>200 | 8.00<br>400 | 20.0<br>800 | 40.0 | 80.0 |
| Methyl methacrylate | FB | Ave | 3667<br>308275 | 9168<br>616150 | 23842<br>1278402 | 50634 | 106349 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| Methylcyclohexane | FB | Ave | 13854<br>838522 | 27626<br>1682345 | 73245<br>3283816 | 151978 | 308649 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Nitropropane | FB | Ave | 2286<br>129649 | 4040<br>274035 | 9305<br>573892 | 18424 | 39360 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Chloroethyl vinyl ether | FB | Lin1 | +++++<br>344051 | +++++<br>842269 | 26560<br>+++++ | 53114 | 115544 | +++++<br>50.0 | +++++<br>100 | 5.00<br>+++++ | 10.0 | 20.0 |
| Ethyl methacrylate | CBZ | Ave | 18553<br>1467754 | 38628<br>2946027 | 113185<br>5847071 | 225093 | 500860 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| cis-1,4-Dichloro-2-butene | DCB | Ave | 1363<br>80654 | 2336<br>170056 | 7317<br>347650 | 12610 | 26830 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 1615<br>115458 | 3337<br>233154 | 9299<br>472577 | 16919 | 39910 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 8301<br>485448 | 17279<br>975368 | 44822<br>2044261 | 87639 | 187554 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 11395<br>603011 | 22961<br>1212389 | 57356<br>2475061 | 111951 | 233005 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 36691<br>1914022 | 66308<br>3861735 | 178679<br>7504577 | 358926 | 753549 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | DCB | Ave | 14191<br>653370 | 22534<br>1338833 | 62293<br>2619826 | 121550 | 262408 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8127.D | | |
| Lims ID: | STD001 | Client ID: | |
| Inject. Date: | 09-May-2013 22:26:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 1 |
| Sample ID: | STD001 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 19 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 12 |
| Sublist: | chrom-SO_VMSG2_8260*sub41 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:19:55 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 09-May-2013 23:19:50 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2030218 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 85 | 440549 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.735 | 0.007 | 96 | 669991 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 19 | 8301 | 0.9846 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.388 | 7.381 | 0.007 | 88 | 11395 | 1.06 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.839 | 8.832 | 0.007 | 56 | 36691 | 1.10 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 55 | 14191 | 1.21 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 29 | 4462 | 0.8225 | |
| 30 Ethylene oxide | 43 | 4.646 | 4.633 | 0.013 | 99 | 90025 | 135.9 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 51 | 17765 | 0.9829 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 31 | 8953 | 0.9322 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 74 | 8030 | 0.9788 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 15 | 14086 | 1.01 | |
| 39 Propene oxide | 58 | 5.261 | 5.247 | 0.014 | 94 | 109631 | 50.5 | |
| 43 Isopropyl alcohol | 45 | 5.414 | 5.401 | 0.013 | 59 | 13813 | 19.8 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.414 | 5.415 | -0.001 | 30 | 6554 | 0.9549 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 64 | 13676 | 1.01 | |
| 50 Carbon disulfide | 76 | 5.722 | 5.708 | 0.014 | 88 | 32454 | 1.01 | |
| 54 Methyl tert-butyl ether | 73 | 5.973 | 5.973 | 0.0 | 85 | 27547 | 0.9677 | |
| 56 Hexane | 57 | 6.194 | 6.187 | 0.007 | 83 | 22669 | 1.54 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 97 | 137712 | 4.91 | |
| 65 sec-Butyl Alcohol | 45 | 6.737 | 6.737 | 0.0 | 86 | 29523 | 35.9 | |
| 71 Tetrahydrofuran | 42 | 6.987 | 6.988 | -0.001 | 77 | 6161 | 2.05 | |
| 74 Cyclohexane | 56 | 7.281 | 7.274 | 0.007 | 85 | 17311 | 1.02 | |
| 78 Tert-amyl methyl ether | 73 | 7.467 | 7.467 | 0.0 | 95 | 120444 | 4.84 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 83 | 40186 | 4.43 | |
| 83 Methyl methacrylate | 100 | 8.067 | 8.060 | 0.007 | 72 | 3667 | 1.53 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 74 | 13854 | 0.9855 | |
| 89 2-Nitropropane | 41 | 8.418 | 8.411 | 0.007 | 46 | 2286 | 1.10 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.425 | 8.425 | 0.0 | 53 | 4782 | 3.15 | |
| 94 Ethyl methacrylate | 69 | 8.968 | 8.961 | 0.007 | 80 | 18553 | 1.68 | |
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 1 | 2571 | 1.02 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 1 | 1363 | 1.03 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.849 | 10.856 | -0.007 | 1 | 1615 | 0.8997 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 15 | 33772 | 0.9893 | |

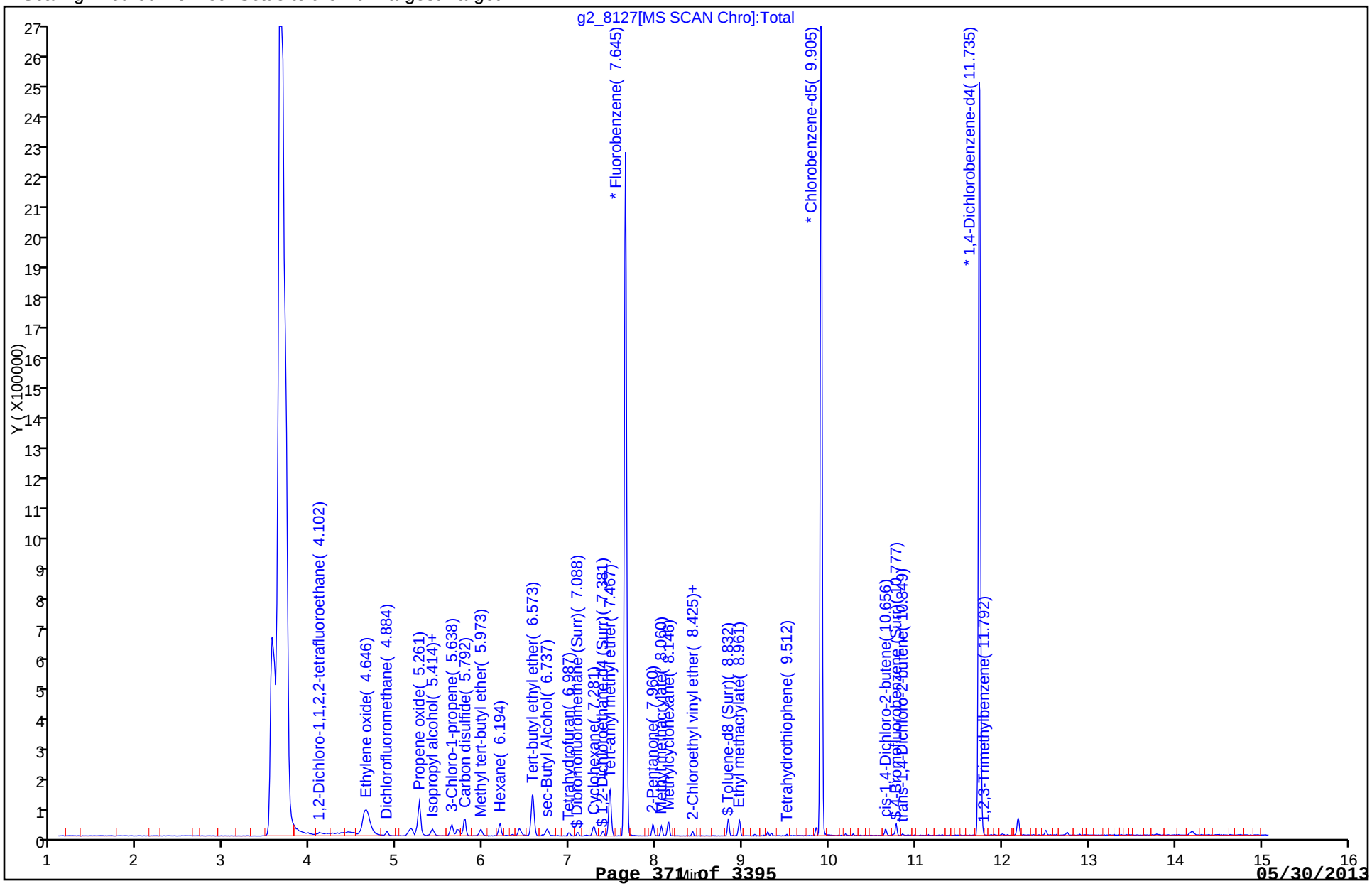
Report Date: 10-May-2013 16:19:55 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8127.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 22:26:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 12 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8128.D | | |
| Lims ID: | STD002 | Client ID: | |
| Inject. Date: | 09-May-2013 22:45:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | STD002 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 20 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 13 |
| Sublist: | chrom-SO_VMSG2_8260*sub41 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:19:56 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2053682 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 448328 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 96 | 680757 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 45 | 17279 | 2.03 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.388 | 7.381 | 0.007 | 90 | 22961 | 2.11 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 81 | 66308 | 1.96 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.770 | 10.777 | -0.007 | 81 | 22534 | 1.89 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.116 | 4.102 | 0.014 | 40 | 10018 | 1.83 | |
| 30 Ethylene oxide | 43 | 4.647 | 4.633 | 0.013 | 99 | 181101 | 270.3 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 76 | 36202 | 1.98 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 61 | 20154 | 2.07 | |
| 38 Ethyl ether | 59 | 5.177 | 5.163 | 0.014 | 71 | 16309 | 1.97 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 59 | 27558 | 1.96 | |
| 39 Propene oxide | 58 | 5.261 | 5.247 | 0.014 | 96 | 227497 | 103.6 | |
| 43 Isopropyl alcohol | 45 | 5.415 | 5.401 | 0.014 | 72 | 32307 | 45.8 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 58 | 13761 | 1.98 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 75 | 28579 | 2.10 | |
| 50 Carbon disulfide | 76 | 5.722 | 5.708 | 0.014 | 94 | 62747 | 1.93 | |
| 54 Methyl tert-butyl ether | 73 | 5.973 | 5.973 | 0.0 | 85 | 55140 | 1.91 | |
| 56 Hexane | 57 | 6.201 | 6.187 | 0.014 | 88 | 32716 | 2.18 | |
| 61 Tert-butyl ethyl ether | 59 | 6.573 | 6.566 | 0.007 | 98 | 283074 | 9.98 | |
| 65 sec-Butyl Alcohol | 45 | 6.737 | 6.737 | 0.0 | 94 | 62047 | 74.7 | |
| 71 Tetrahydrofuran | 42 | 6.995 | 6.988 | 0.007 | 79 | 12283 | 4.04 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 87 | 32308 | 1.87 | |
| 78 Tert-amyl methyl ether | 73 | 7.467 | 7.467 | 0.0 | 97 | 244737 | 9.72 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 83 | 72009 | 7.85 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 84 | 9168 | 3.78 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 83 | 27626 | 1.94 | |
| 89 2-Nitropropane | 41 | 8.418 | 8.411 | 0.007 | 52 | 4040 | 1.93 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.418 | 8.425 | -0.007 | 63 | 9137 | 3.76 | |
| 94 Ethyl methacrylate | 69 | 8.968 | 8.961 | 0.007 | 86 | 38628 | 3.44 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 35 | 4297 | 1.67 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 33 | 2336 | 1.74 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 25 | 3337 | 1.83 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 61 | 64618 | 1.86 | |

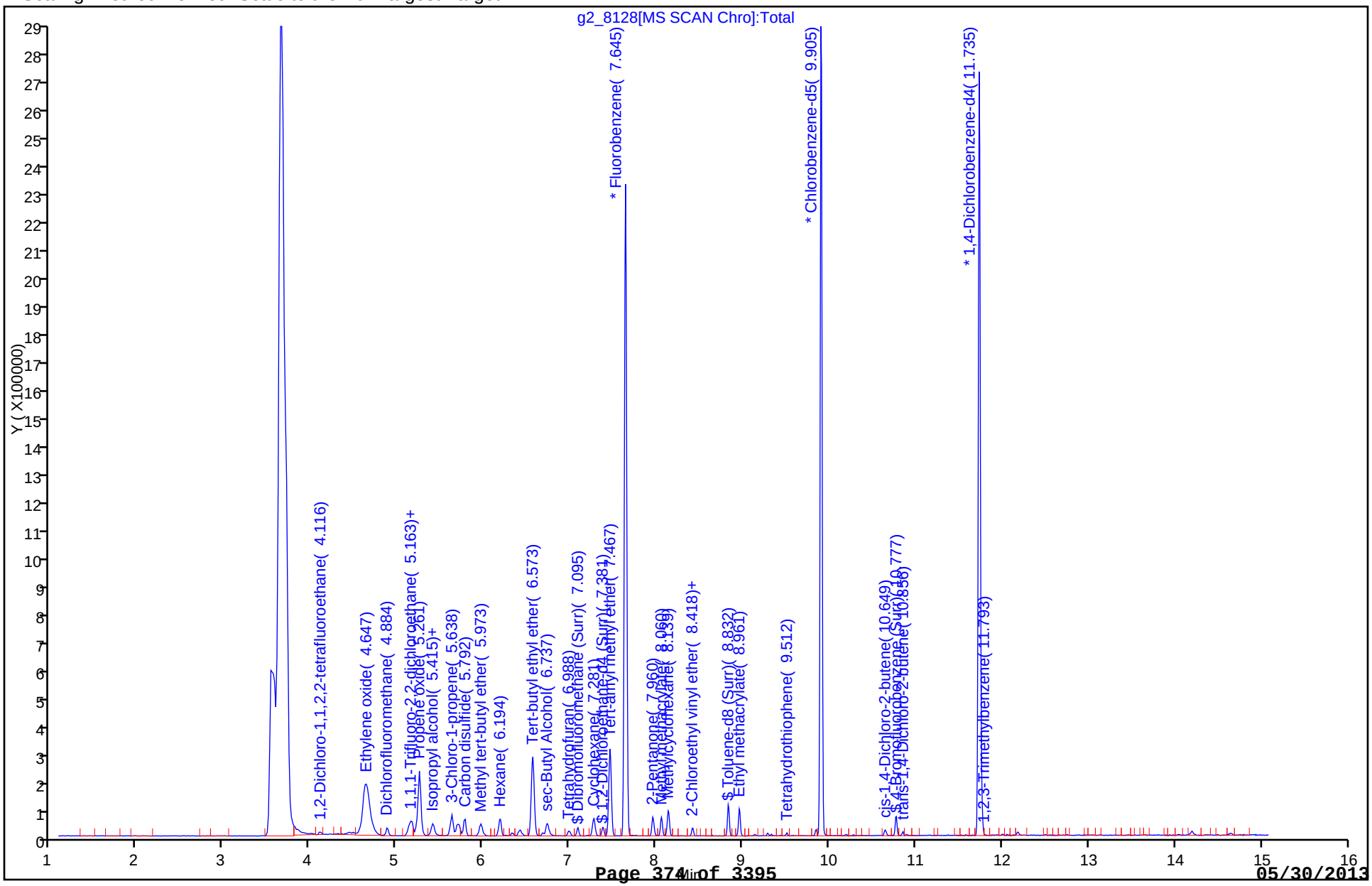
Report Date: 10-May-2013 16:19:57 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8128.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 22:45:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 13 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8129.D | | |
| Lims ID: | STD005 | Client ID: | |
| Inject. Date: | 09-May-2013 23:04:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | STD005 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 21 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 14 |
| Sublist: | chrom-SO_VMSG2_8260*sub41 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:19:58 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 09-May-2013 23:35:36 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.646 | 7.645 | 0.001 | 99 | 2177383 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 87 | 485301 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 96 | 745493 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 49 | 44822 | 4.96 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.381 | 0.0 | 98 | 57356 | 4.98 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 178679 | 4.87 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 85 | 62293 | 4.78 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 78 | 28571 | 4.91 | |
| 30 Ethylene oxide | 43 | 4.633 | 4.633 | 0.0 | 99 | 466683 | 657.0 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 94 | 94872 | 4.89 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 83 | 51937 | 5.04 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 90 | 41806 | 4.75 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.163 | 5.177 | -0.014 | 81 | 73143 | 4.91 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 596354 | 256.2 | |
| 43 Isopropyl alcohol | 45 | 5.401 | 5.401 | 0.0 | 77 | 82392 | 110.1 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 81 | 35683 | 4.85 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 71 | 64611 | 4.47 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 96 | 162838 | 4.72 | |
| 54 Methyl tert-butyl ether | 73 | 5.959 | 5.973 | -0.014 | 88 | 148868 | 4.88 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 93 | 79329 | 4.89 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 98 | 762591 | 25.4 | |
| 65 sec-Butyl Alcohol | 45 | 6.737 | 6.737 | 0.0 | 97 | 159372 | 180.9 | |
| 71 Tetrahydrofuran | 42 | 6.988 | 6.988 | 0.0 | 79 | 31975 | 9.92 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 90 | 89463 | 4.89 | |
| 78 Tert-amyl methyl ether | 73 | 7.460 | 7.467 | -0.007 | 96 | 670643 | 25.1 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 98 | 193983 | 19.9 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 89 | 23842 | 9.28 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 88 | 73245 | 4.86 | |
| 89 2-Nitropropane | 41 | 8.411 | 8.411 | 0.0 | 63 | 9305 | 4.19 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.418 | 8.425 | -0.007 | 85 | 26560 | 5.99 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 91 | 113185 | 9.32 | |
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 61 | 12805 | 4.60 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 58 | 7317 | 4.97 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.849 | 10.856 | -0.007 | 66 | 9299 | 4.66 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 92 | 184404 | 4.85 | |

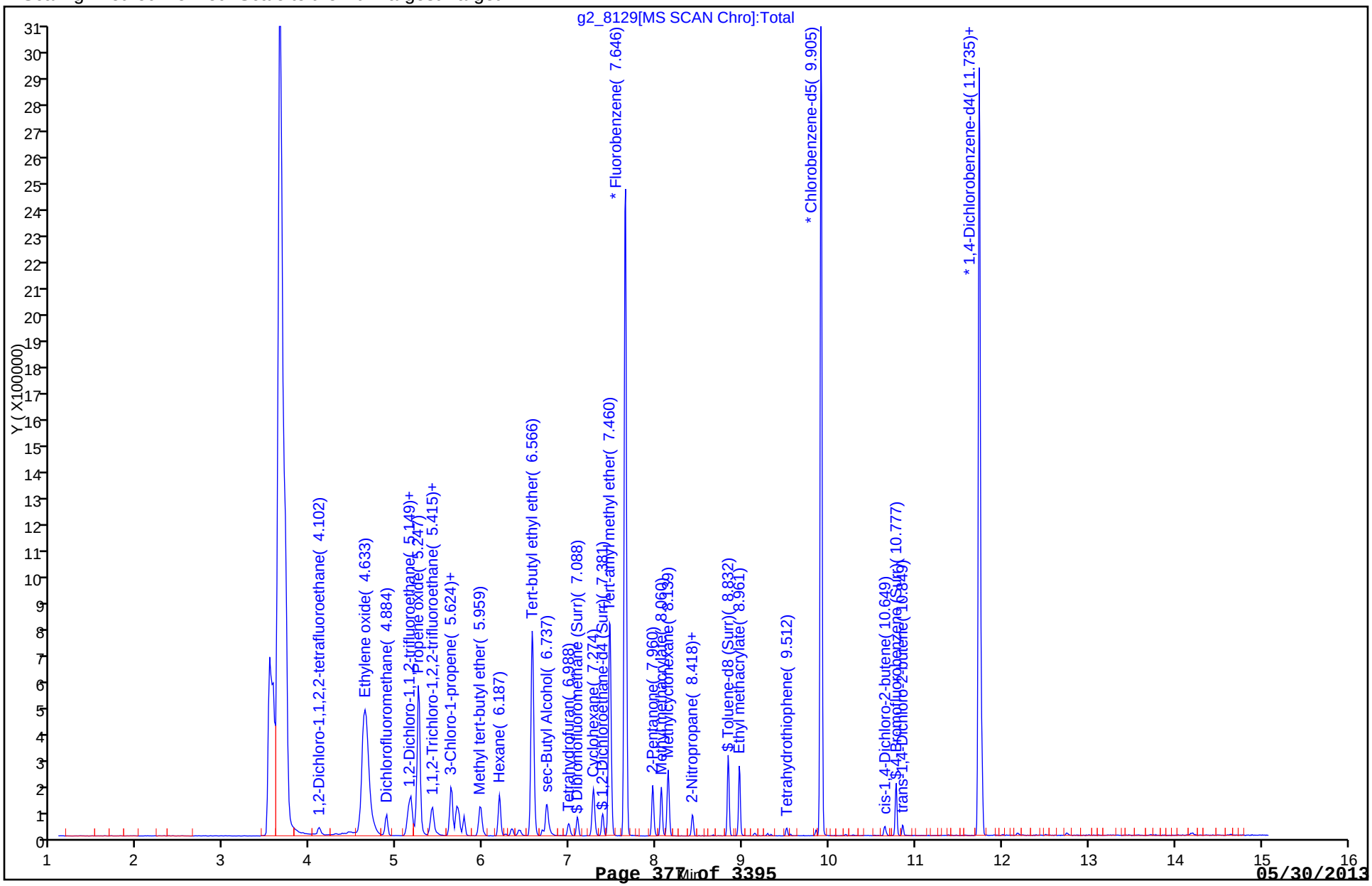
Report Date: 10-May-2013 16:19:58 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8129.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 23:04:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 14 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8130.D
Lims ID: STD010 Client ID:
Inject. Date: 09-May-2013 23:24:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: STD010
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 22
Lims Batch ID: 173584 Lims Sample ID: 15
Sublist: chrom-SO_VMSG2_8260*sub41
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 10-May-2013 16:19:59 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPHEATHER

First Level Reviewer: dukesa Date: 10-May-2013 00:12:02

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2190446 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 85 | 473673 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.735 | 0.007 | 95 | 724087 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 55 | 87639 | 9.63 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.381 | 0.0 | 98 | 111951 | 9.66 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 358926 | 10.0 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 85 | 121550 | 9.59 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 81 | 56822 | 9.71 | |
| 30 Ethylene oxide | 43 | 4.633 | 4.633 | -0.001 | 99 | 868939 | 1216.1 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 96 | 191479 | 9.82 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 92 | 103818 | 10.0 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 90 | 85288 | 9.64 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 86 | 149714 | 9.98 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 1127702 | 481.6 | |
| 43 Isopropyl alcohol | 45 | 5.401 | 5.401 | 0.0 | 94 | 130102 | 172.8 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 92 | 73705 | 9.95 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 74 | 137621 | 9.46 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 98 | 337187 | 9.72 | |
| 54 Methyl tert-butyl ether | 73 | 5.959 | 5.973 | -0.014 | 91 | 289661 | 9.43 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 94 | 161242 | 10.2 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 98 | 1520169 | 50.3 | |
| 65 sec-Butyl Alcohol | 45 | 6.737 | 6.737 | 0.0 | 98 | 284033 | 320.5 | |
| 71 Tetrahydrofuran | 42 | 6.988 | 6.988 | 0.0 | 84 | 60131 | 18.5 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 91 | 180034 | 9.78 | |
| 78 Tert-amyl methyl ether | 73 | 7.467 | 7.467 | 0.0 | 98 | 1336742 | 49.8 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 353007 | 36.1 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 90 | 50634 | 19.6 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 90 | 151978 | 10.0 | |
| 89 2-Nitropropane | 41 | 8.418 | 8.411 | 0.007 | 70 | 18424 | 8.24 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.425 | 8.425 | 0.0 | 88 | 53114 | 9.46 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 90 | 225093 | 19.0 | |
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 81 | 23229 | 8.54 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 68 | 12610 | 8.82 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 76 | 16919 | 8.72 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 98 | 351642 | 9.53 | |

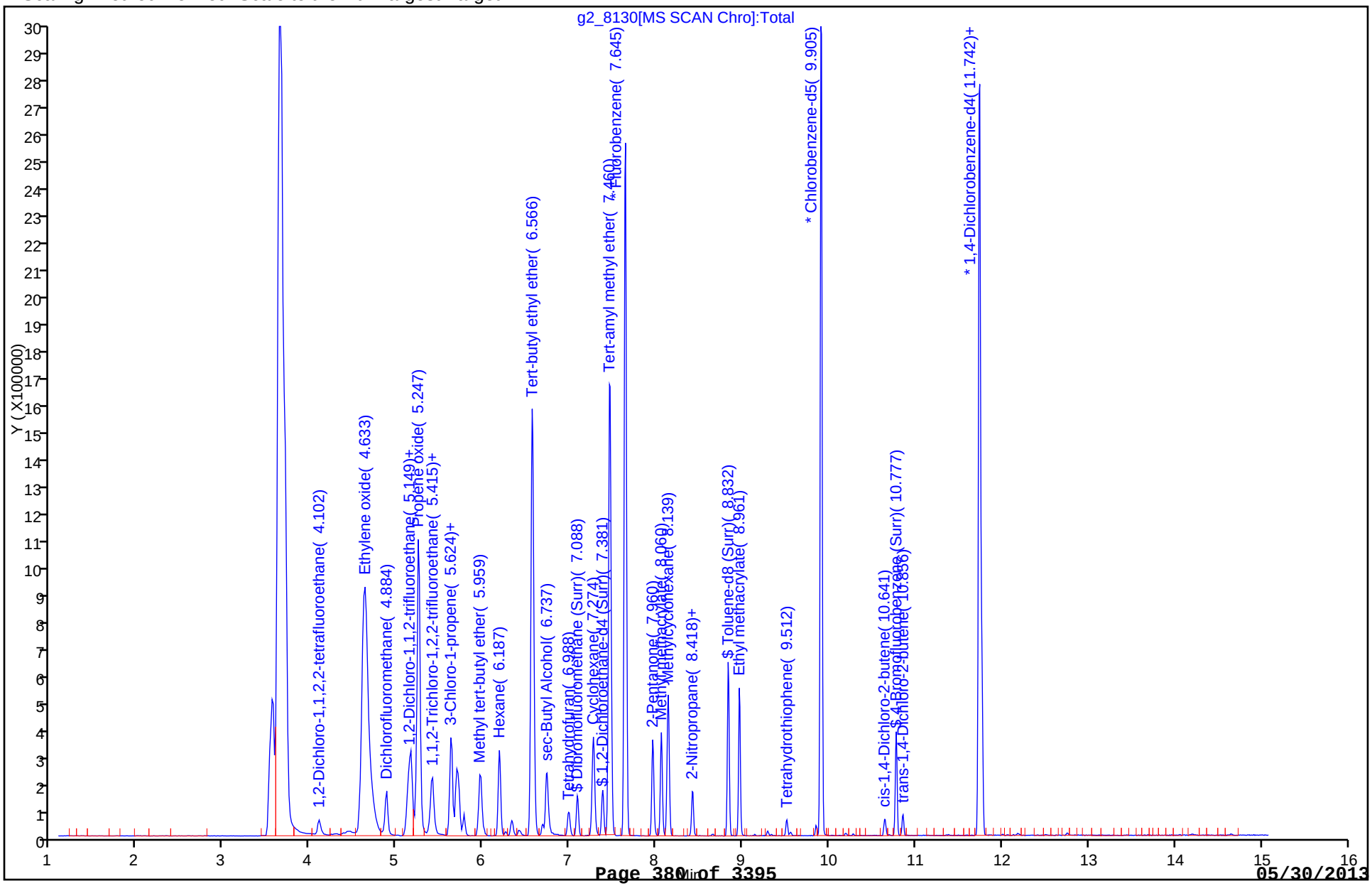
Report Date: 10-May-2013 16:20:00 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8130.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 23:24:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 15 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8131.D | | |
| Lims ID: | STD020 | Client ID: | |
| Inject. Date: | 09-May-2013 23:43:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | STD020 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 23 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 16 |
| Sublist: | chrom-SO_VMSG2_8260*sub41 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:01 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2232646 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 85 | 493803 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.735 | 0.007 | 96 | 757415 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 57 | 187554 | 20.2 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.381 | 0.0 | 98 | 233005 | 19.7 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 753549 | 20.2 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 86 | 262408 | 19.8 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 93 | 112018 | 18.8 | |
| 30 Ethylene oxide | 43 | 4.632 | 4.633 | -0.001 | 100 | 1721248 | 2363.3 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 83 | 389472 | 19.6 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 87 | 203553 | 19.3 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 91 | 175129 | 19.4 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 91 | 295157 | 19.3 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 2331054 | 976.6 | |
| 43 Isopropyl alcohol | 45 | 5.401 | 5.401 | 0.0 | 95 | 292776 | 381.5 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 86 | 145417 | 19.3 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 66 | 282243 | 19.0 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 98 | 682568 | 19.3 | |
| 54 Methyl tert-butyl ether | 73 | 5.973 | 5.973 | 0.0 | 90 | 610784 | 19.5 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 94 | 304363 | 18.4 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 98 | 3175905 | 103.0 | |
| 65 sec-Butyl Alcohol | 45 | 6.730 | 6.737 | -0.007 | 99 | 628685 | 696.0 | |
| 71 Tetrahydrofuran | 42 | 6.988 | 6.988 | 0.0 | 87 | 123236 | 37.3 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 91 | 368008 | 19.6 | |
| 78 Tert-amyl methyl ether | 73 | 7.467 | 7.467 | 0.0 | 98 | 2811705 | 102.8 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 763507 | 76.6 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 90 | 106349 | 40.4 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 90 | 308649 | 20.0 | |
| 89 2-Nitropropane | 41 | 8.418 | 8.411 | 0.007 | 73 | 39360 | 17.3 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.425 | 8.425 | 0.0 | 92 | 115544 | 17.4 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 91 | 500860 | 40.5 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 89 | 53827 | 19.0 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 80 | 26830 | 17.9 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 87 | 39910 | 19.7 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 98 | 787886 | 20.4 | |

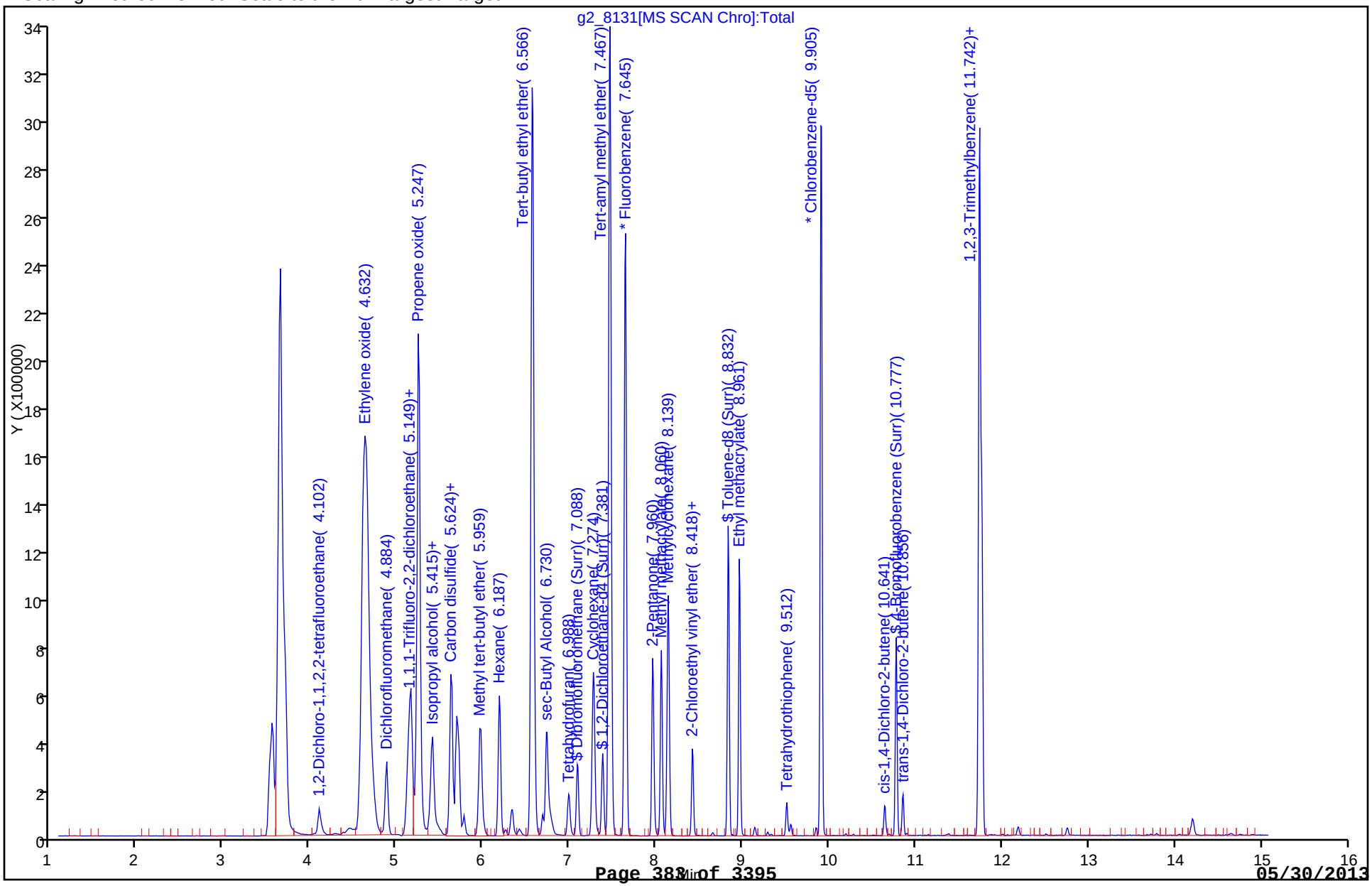
Report Date: 10-May-2013 16:20:02 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8131.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 23:43:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 16 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8132.D | | |
| Lims ID: | ICIS | Client ID: | |
| Inject. Date: | 10-May-2013 00:02:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICIS | Calib Level: | 6 |
| Sample ID: | ICIS | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 24 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 17 |
| Sublist: | chrom-SO_VMSG2_8260*sub41 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:03 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 10-May-2013 01:00:29 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2249337 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.912 | 0.0 | 85 | 499715 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.743 | 11.743 | 0.0 | 96 | 733289 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 58 | 485448 | 52.0 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.381 | 0.0 | 98 | 603011 | 50.7 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 94 | 1914022 | 50.7 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 87 | 653370 | 50.9 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 97 | 367513 | 61.1 | |
| 30 Ethylene oxide | 43 | 4.633 | 4.633 | 0.0 | 100 | 5008251 | 6825.5 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 98 | 1083325 | 54.1 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 86 | 566294 | 53.2 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 93 | 499982 | 55.0 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 95 | 825818 | 53.6 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 6549177 | 2723.5 | |
| 43 Isopropyl alcohol | 45 | 5.401 | 5.401 | 0.0 | 96 | 857146 | 1108.5 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 87 | 421157 | 55.4 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 76 | 808972 | 54.2 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 98 | 1961785 | 55.1 | |
| 54 Methyl tert-butyl ether | 73 | 5.973 | 5.973 | 0.0 | 91 | 1730871 | 54.9 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 94 | 879172 | 52.6 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 97 | 8802363 | 283.4 | |
| 65 sec-Butyl Alcohol | 45 | 6.737 | 6.737 | 0.0 | 99 | 1916107 | 2105.7 | |
| 71 Tetrahydrofuran | 42 | 6.988 | 6.988 | 0.0 | 87 | 363195 | 109.0 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 91 | 1029045 | 54.5 | |
| 78 Tert-amyl methyl ether | 73 | 7.467 | 7.467 | 0.0 | 97 | 7898981 | 286.6 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 2159207 | 214.9 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 91 | 308275 | 116.2 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 90 | 838522 | 53.8 | |
| 89 2-Nitropropane | 41 | 8.411 | 8.411 | 0.0 | 97 | 129649 | 56.5 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.425 | 8.425 | 0.0 | 93 | 344051 | 46.5 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 91 | 1467754 | 117.3 | |
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 93 | 164861 | 57.5 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 90 | 80654 | 55.7 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 94 | 115458 | 58.8 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 99 | 2051831 | 54.9 | |

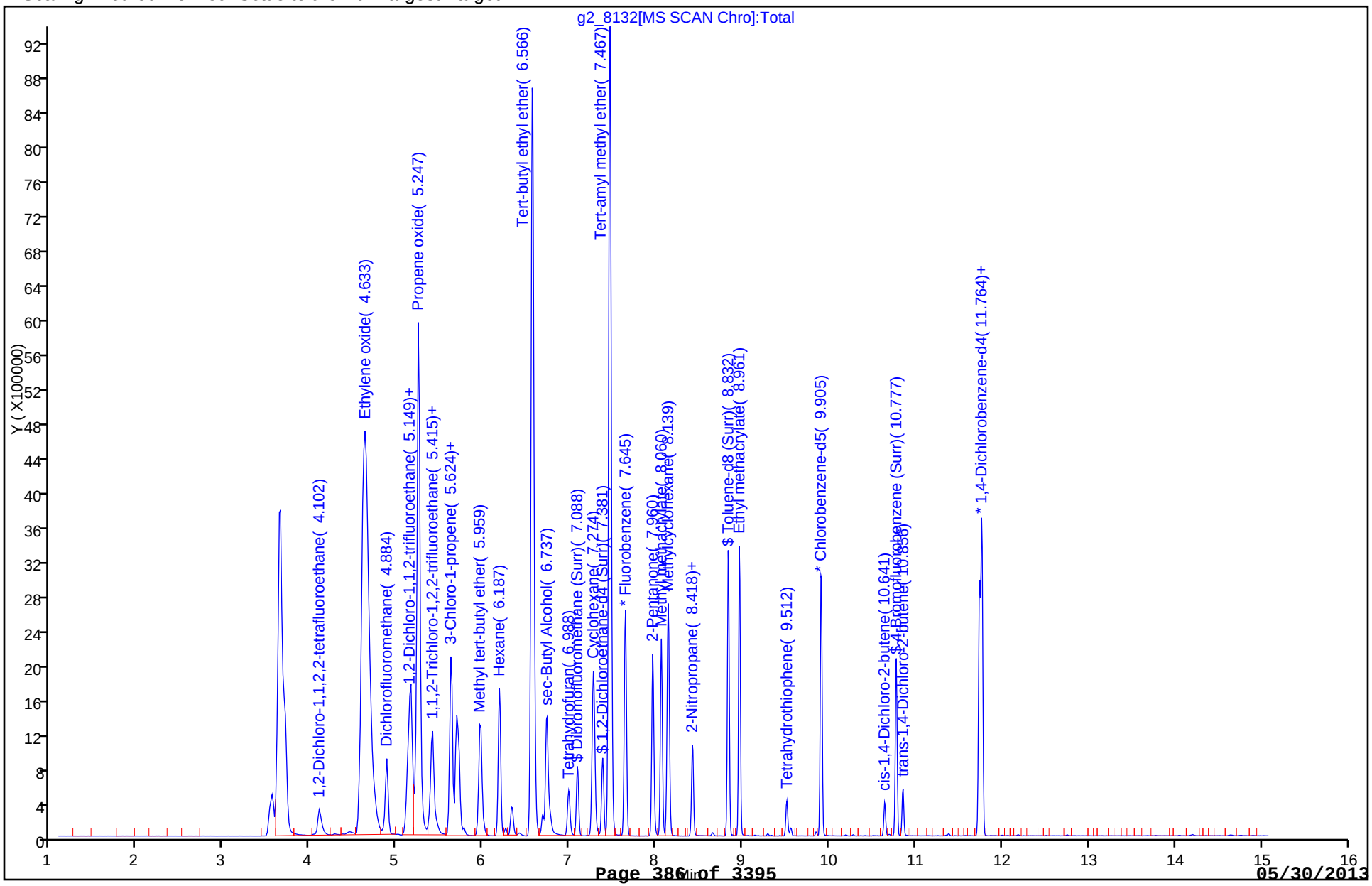
Report Date: 10-May-2013 16:20:04 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8132.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 00:02:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 17 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8133.D | | |
| Lims ID: | STD100 | Client ID: | |
| Inject. Date: | 10-May-2013 00:22:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | STD100 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 25 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 18 |
| Sublist: | chrom-SO_VMSG2_8260*sub41 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:05 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2352733 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.912 | 0.0 | 85 | 520463 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.743 | 11.743 | 0.0 | 97 | 778046 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 58 | 975368 | 99.8 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.381 | 0.0 | 98 | 1212389 | 97.4 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 3861735 | 98.2 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 88 | 1338833 | 98.3 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 99 | 707094 | 112.5 | |
| 30 Ethylene oxide | 43 | 4.633 | 4.633 | 0.0 | 100 | 9105724 | 11864 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 97 | 2169870 | 103.6 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 90 | 1143484 | 102.7 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 94 | 992185 | 104.4 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 87 | 1642576 | 102.0 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 12526152 | 4980.1 | |
| 43 Isopropyl alcohol | 45 | 5.401 | 5.401 | 0.0 | 76 | 1510594 | 1867.7 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 95 | 827177 | 104.0 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 77 | 1615479 | 103.4 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 98 | 3912876 | 105.0 | |
| 54 Methyl tert-butyl ether | 73 | 5.973 | 5.973 | 0.0 | 90 | 3504425 | 106.2 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 94 | 1730117 | 99.3 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 95 | 16970982 | 522.4 | |
| 65 sec-Butyl Alcohol | 45 | 6.737 | 6.737 | 0.0 | 98 | 3289544 | 3456.1 | |
| 71 Tetrahydrofuran | 42 | 6.988 | 6.988 | 0.0 | 88 | 715628 | 205.4 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 91 | 2060573 | 104.3 | |
| 78 Tert-amyl methyl ether | 73 | 7.467 | 7.467 | 0.0 | 96 | 15446632 | 535.7 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 4272235 | 406.5 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 90 | 616150 | 222.0 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 90 | 1682345 | 103.3 | |
| 89 2-Nitropropane | 41 | 8.418 | 8.411 | 0.007 | 97 | 274035 | 114.1 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.425 | 8.425 | 0.0 | 93 | 842269 | 105.6 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 91 | 2946027 | 226.1 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 92 | 336052 | 112.5 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 91 | 170056 | 110.7 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 96 | 233154 | 111.9 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 99 | 4232244 | 106.8 | |

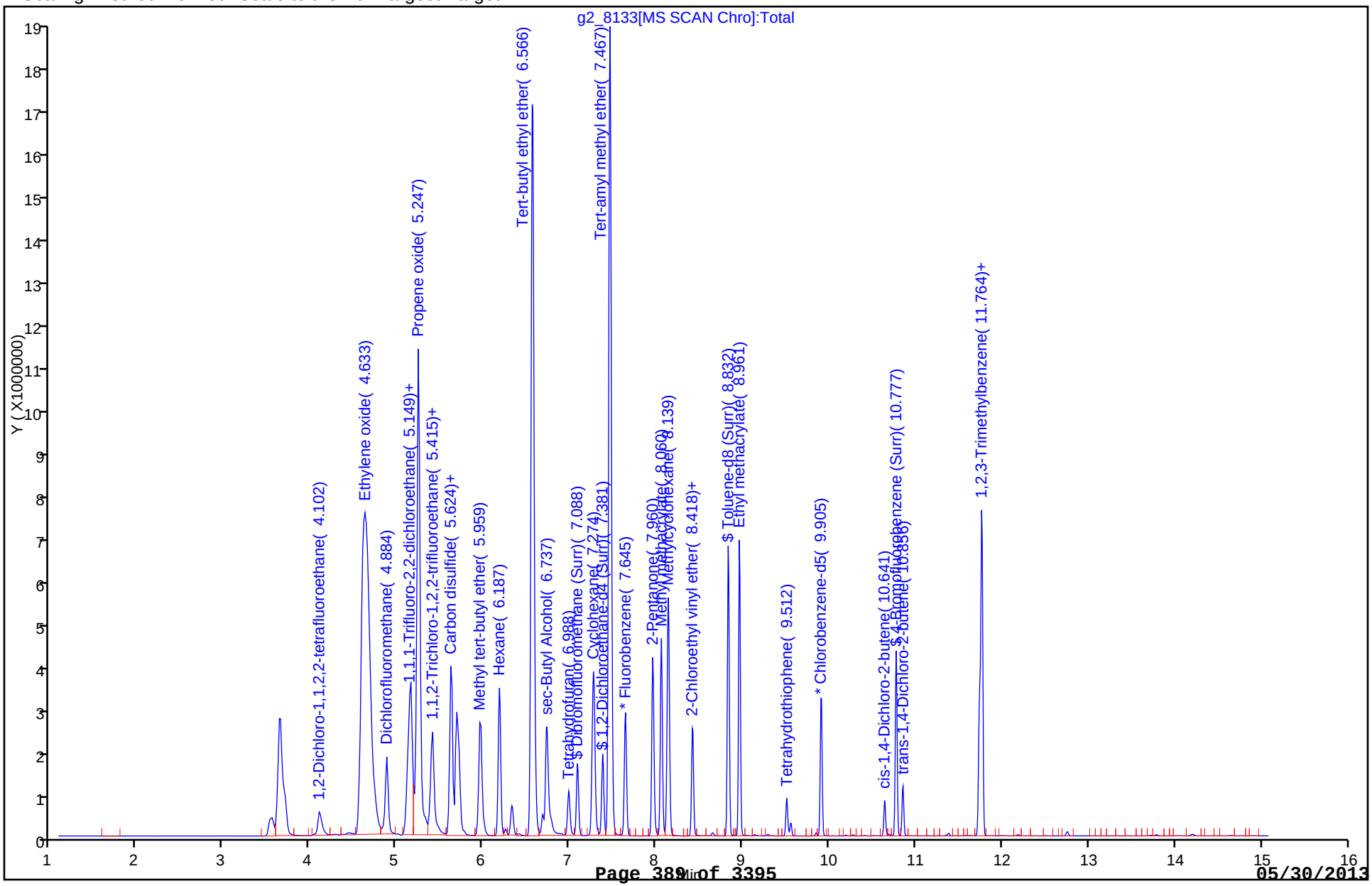
Report Date: 10-May-2013 16:20:06 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8133.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 00:22:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 18 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8134.D | | |
| Lims ID: | STD200 | Client ID: | |
| Inject. Date: | 10-May-2013 00:41:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 8 |
| Sample ID: | BLK | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 26 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 19 |
| Sublist: | chrom-SO_VMSG2_8260*sub41 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:07 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2465493 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.912 | -0.007 | 85 | 530929 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.743 | -0.008 | 96 | 798314 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 58 | 2044261 | 199.7 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.381 | 0.0 | 98 | 2475061 | 189.7 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 7504577 | 187.1 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 2619826 | 187.5 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 96 | 1351324 | 205.1 | |
| 30 Ethylene oxide | 43 | 4.633 | 4.633 | 0.0 | 99 | 16499251 | 20515 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 97 | 4251806 | 193.7 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 80 | 2251210 | 193.0 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 92 | 2012854 | 202.0 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 96 | 3276588 | 194.1 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 23818566 | 9036.6 | |
| 43 Isopropyl alcohol | 45 | 5.401 | 5.401 | 0.0 | 96 | 3071278 | 3623.6 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 93 | 1631275 | 195.7 | |
| 49 3-Chloro-1-propene | 41 | 5.680 | 5.694 | -0.014 | 85 | 3369219 | 205.8 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 98 | 7739433 | 198.3 | |
| 54 Methyl tert-butyl ether | 73 | 5.959 | 5.973 | -0.014 | 91 | 7057174 | 204.2 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 94 | 3373359 | 189.9 | |
| 61 Tert-butyl ethyl ether | 59 | 6.559 | 6.566 | -0.007 | 86 | 26912999 | 790.6 | |
| 65 sec-Butyl Alcohol | 45 | 6.730 | 6.737 | -0.007 | 98 | 7647181 | 7667.0 | |
| 71 Tetrahydrofuran | 42 | 6.988 | 6.988 | 0.0 | 87 | 1458533 | 399.4 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 91 | 4055497 | 195.8 | |
| 78 Tert-amyl methyl ether | 73 | 7.452 | 7.467 | -0.015 | 93 | 24560046 | 812.9 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 8490422 | 771.0 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 91 | 1278402 | 439.6 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 90 | 3283816 | 192.4 | |
| 89 2-Nitropropane | 41 | 8.418 | 8.411 | 0.007 | 97 | 573892 | 228.0 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.418 | 8.425 | -0.007 | 90 | 1436685 | 170.4 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 91 | 5847071 | 440.0 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 93 | 702531 | 230.5 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 93 | 347650 | 220.7 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.849 | 10.856 | -0.007 | 96 | 472577 | 221.0 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 98 | 7879711 | 193.7 | |

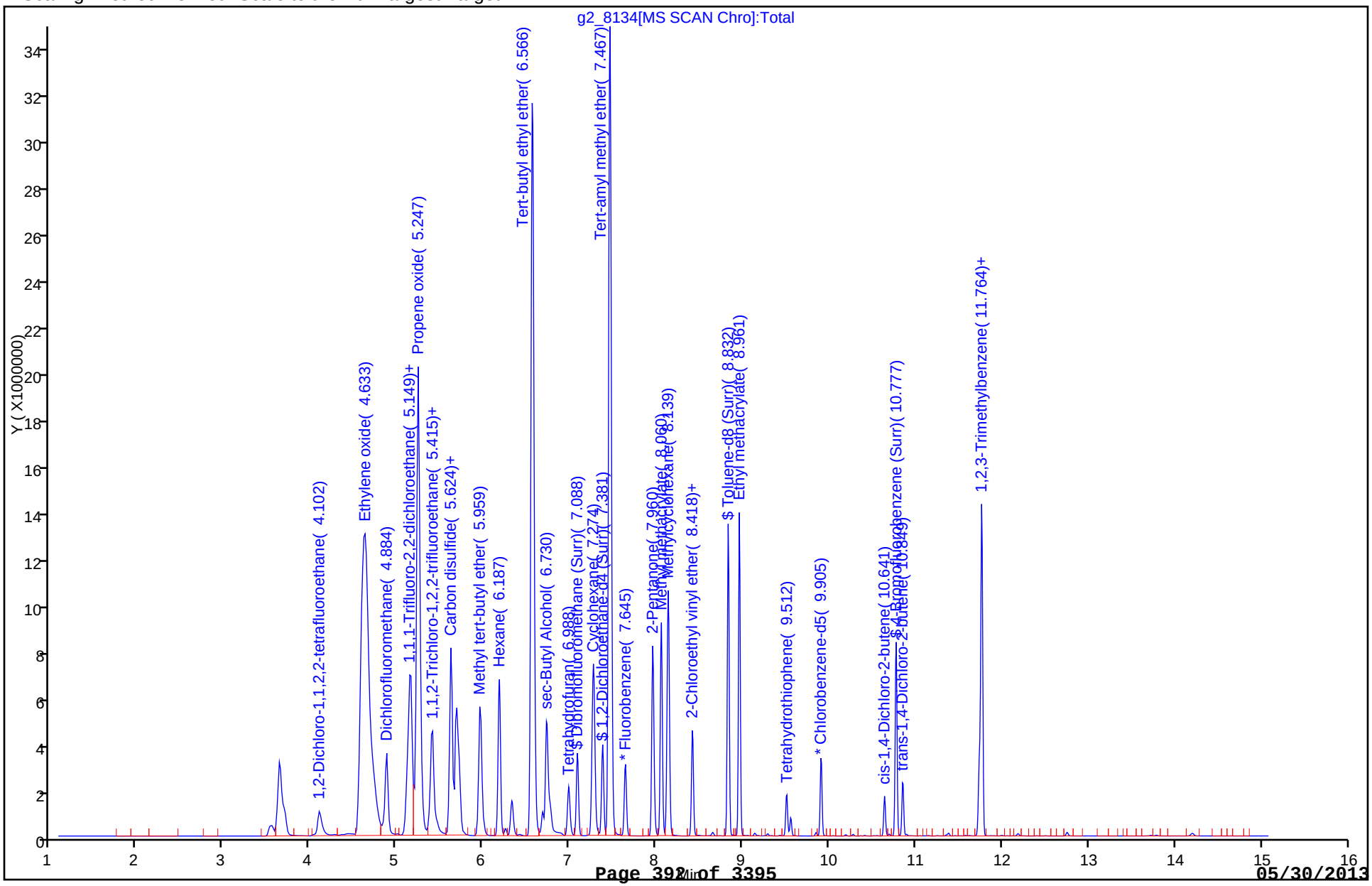
Report Date: 10-May-2013 16:20:07 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8134.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 00:41:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 19 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/10/2013 01:39 Calibration End Date: 05/10/2013 03:16 Calibration ID: 14004

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 280-173584/22 | g2_8137.D |
| Level 2 | STD010 280-173584/23 | g2_8138.D |
| Level 3 | STD020 280-173584/24 | g2_8139.D |
| Level 4 | STD050 280-173584/25 | g2_8140.D |
| Level 5 | STD100 280-173584/26 | g2_8141.D |
| Level 6 | STD200 280-173584/27 | g2_8142.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methyl acetate | 0.1883 0.1990 | 0.1991 | 0.2046 | 0.2161 | 0.2132 | Ave | | 0.2034 | | | | 5.0 | | 15.0 | | | |
| Vinyl acetate | 0.4072 0.4871 | 0.4383 | 0.4631 | 0.4765 | 0.4699 | Ave | | 0.4570 | | | | 6.4 | | 15.0 | | | |
| Ethyl acetate | 0.2300 0.2478 | 0.2420 | 0.2412 | 0.2629 | 0.2605 | Ave | | 0.2474 | | | | 5.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173584

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/10/2013 01:39 Calibration End Date: 05/10/2013 03:16 Calibration ID: 14004

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 280-173584/22 | g2_8137.D |
| Level 2 | STD010 280-173584/23 | g2_8138.D |
| Level 3 | STD020 280-173584/24 | g2_8139.D |
| Level 4 | STD050 280-173584/25 | g2_8140.D |
| Level 5 | STD100 280-173584/26 | g2_8141.D |
| Level 6 | STD200 280-173584/27 | g2_8142.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Methyl acetate | FB | Ave | 210477<br>8880750 | 449510 | 899519 | 2300635 | 4659200 | 25.0<br>1000 | 50.0 | 100 | 250 | 500 |
| Vinyl acetate | FB | Ave | 182107<br>8694063 | 395833 | 814468 | 2029617 | 4107930 | 10.0<br>400 | 20.0 | 40.0 | 100 | 200 |
| Ethyl acetate | FB | Ave | 102860<br>4422317 | 218584 | 424228 | 1119785 | 2277419 | 10.0<br>400 | 20.0 | 40.0 | 100 | 200 |

Curve Type Legend:
Ave = Average ISTD

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8137.D | | |
| Lims ID: | STD005 | Client ID: | |
| Inject. Date: | 10-May-2013 01:39:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | STD005 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 29 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 22 |
| Sublist: | chrom-SO_VMSG2_8260*sub39 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:11 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 10-May-2013 02:02:19 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2235834 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.912 | -0.007 | 87 | 503024 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.743 | -0.008 | 96 | 760099 | 50.0 | |
| 48 Methyl acetate | 43 | 5.638 | 5.624 | 0.014 | 98 | 210477 | 23.1 | |
| 57 Vinyl acetate | 43 | 6.265 | 6.258 | 0.007 | 97 | 182107 | 8.91 | |
| 63 Ethyl acetate | 43 | 6.687 | 6.687 | 0.0 | 96 | 102860 | 9.30 | |

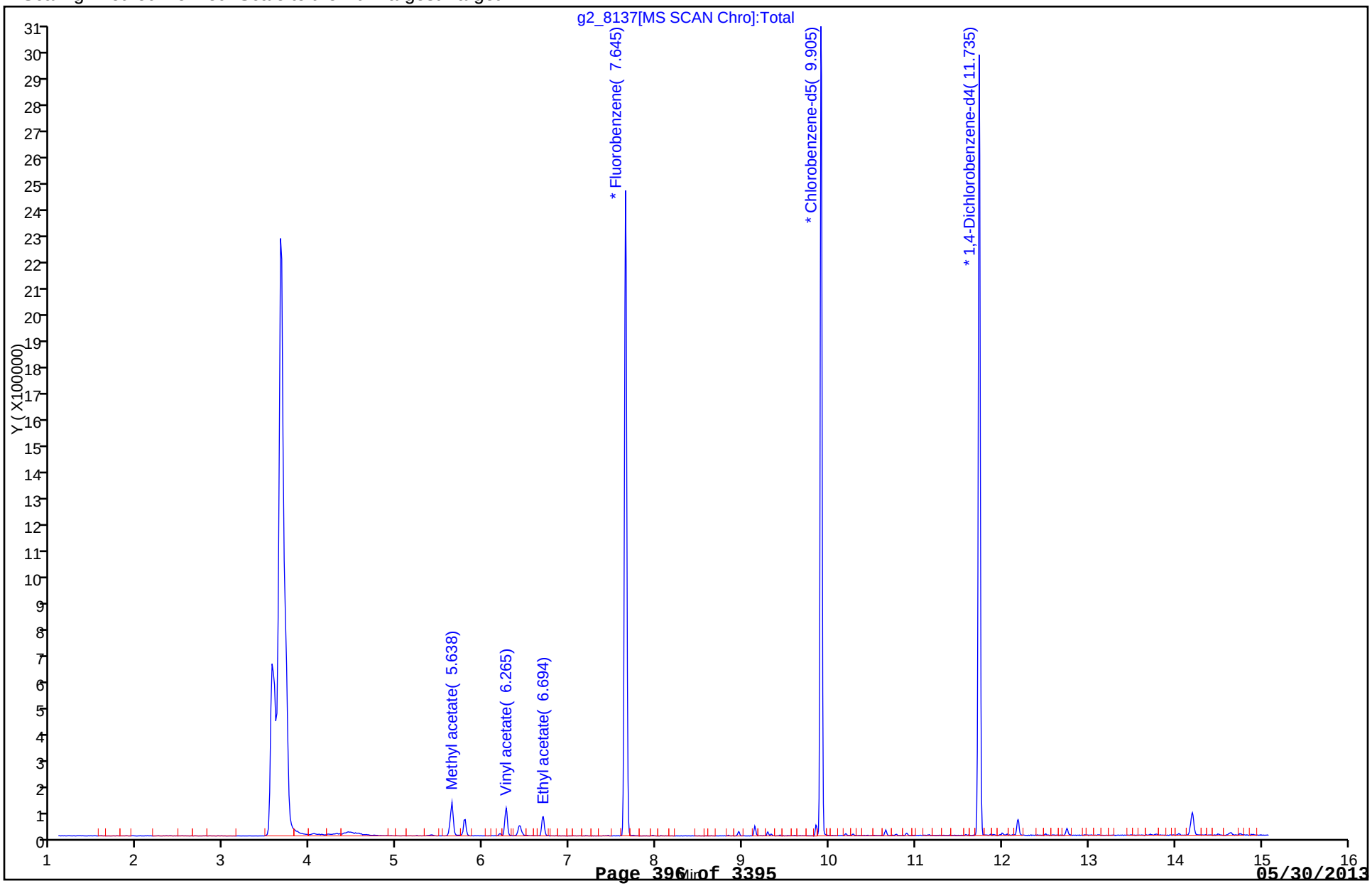
Report Date: 10-May-2013 16:20:11 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8137.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 01:39:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 22 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8138.D | | |
| Lims ID: | STD010 | Client ID: | |
| Inject. Date: | 10-May-2013 01:58:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | STD010 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 30 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 23 |
| Sublist: | chrom-SO_VMSG2_8260*sub39 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:12 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2257969 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.912 | -0.007 | 86 | 494158 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.743 | -0.008 | 97 | 765392 | 50.0 | |
| 48 Methyl acetate | 43 | 5.638 | 5.624 | 0.014 | 98 | 449510 | 48.9 | |
| 57 Vinyl acetate | 43 | 6.258 | 6.258 | 0.0 | 97 | 395833 | 19.2 | |
| 63 Ethyl acetate | 43 | 6.687 | 6.687 | 0.0 | 99 | 218584 | 19.6 | |

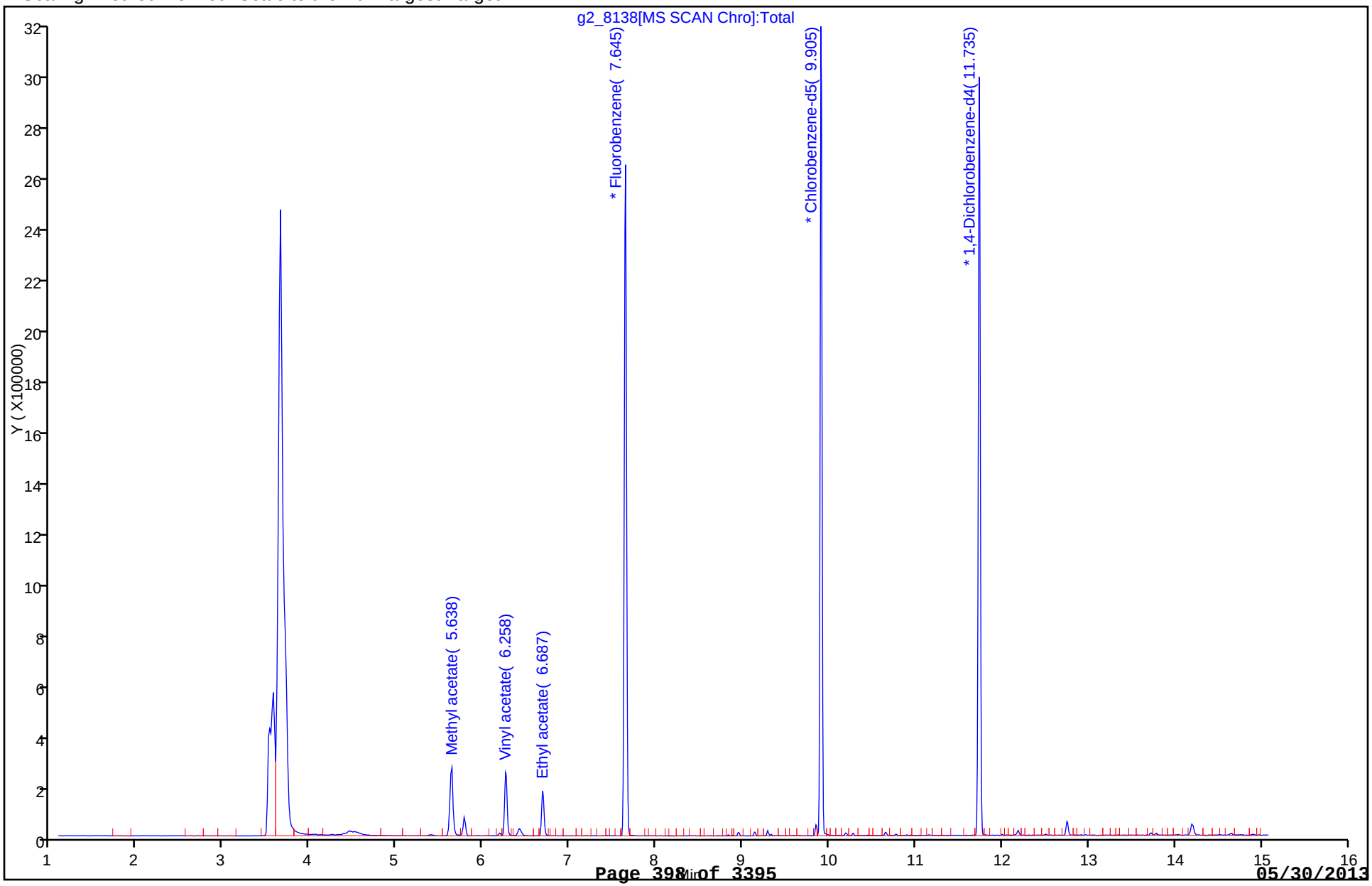
Report Date: 10-May-2013 16:20:13 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8138.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 01:58:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 23 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8139.D | | |
| Lims ID: | STD020 | Client ID: | |
| Inject. Date: | 10-May-2013 02:18:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | STD020 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 31 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 24 |
| Sublist: | chrom-SO_VMSG2_8260*sub39 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:14 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2198536 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.912 | -0.007 | 86 | 482492 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.743 | -0.008 | 96 | 727917 | 50.0 | |
| 48 Methyl acetate | 43 | 5.624 | 5.624 | 0.0 | 98 | 899519 | 100.6 | |
| 57 Vinyl acetate | 43 | 6.258 | 6.258 | 0.0 | 97 | 814468 | 40.5 | |
| 63 Ethyl acetate | 43 | 6.687 | 6.687 | 0.0 | 99 | 424228 | 39.0 | |

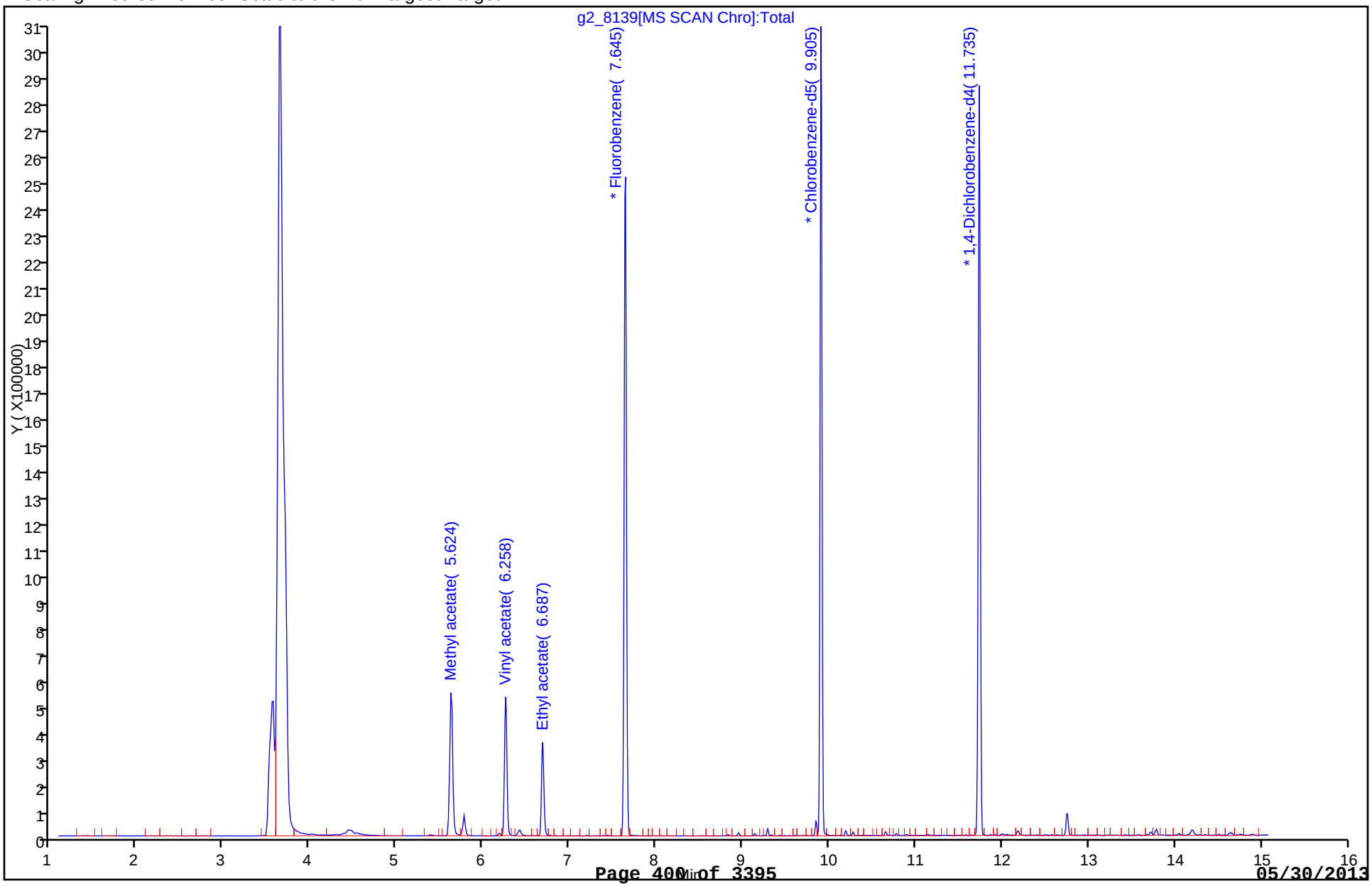
Report Date: 10-May-2013 16:20:14 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8139.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 02:18:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 24 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8140.D | | |
| Lims ID: | STD050 | Client ID: | |
| Inject. Date: | 10-May-2013 02:37:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | STD050 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 32 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 25 |
| Sublist: | chrom-SO_VMSG2_8260*sub39 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:15 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 10-May-2013 16:18:20 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2129705 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 85 | 472660 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 97 | 738088 | 50.0 | |
| 48 Methyl acetate | 43 | 5.624 | 5.624 | 0.0 | 98 | 2300635 | 265.6 | |
| 57 Vinyl acetate | 43 | 6.258 | 6.258 | 0.0 | 97 | 2029617 | 104.3 | |
| 63 Ethyl acetate | 43 | 6.687 | 6.687 | 0.0 | 99 | 1119785 | 106.3 | |

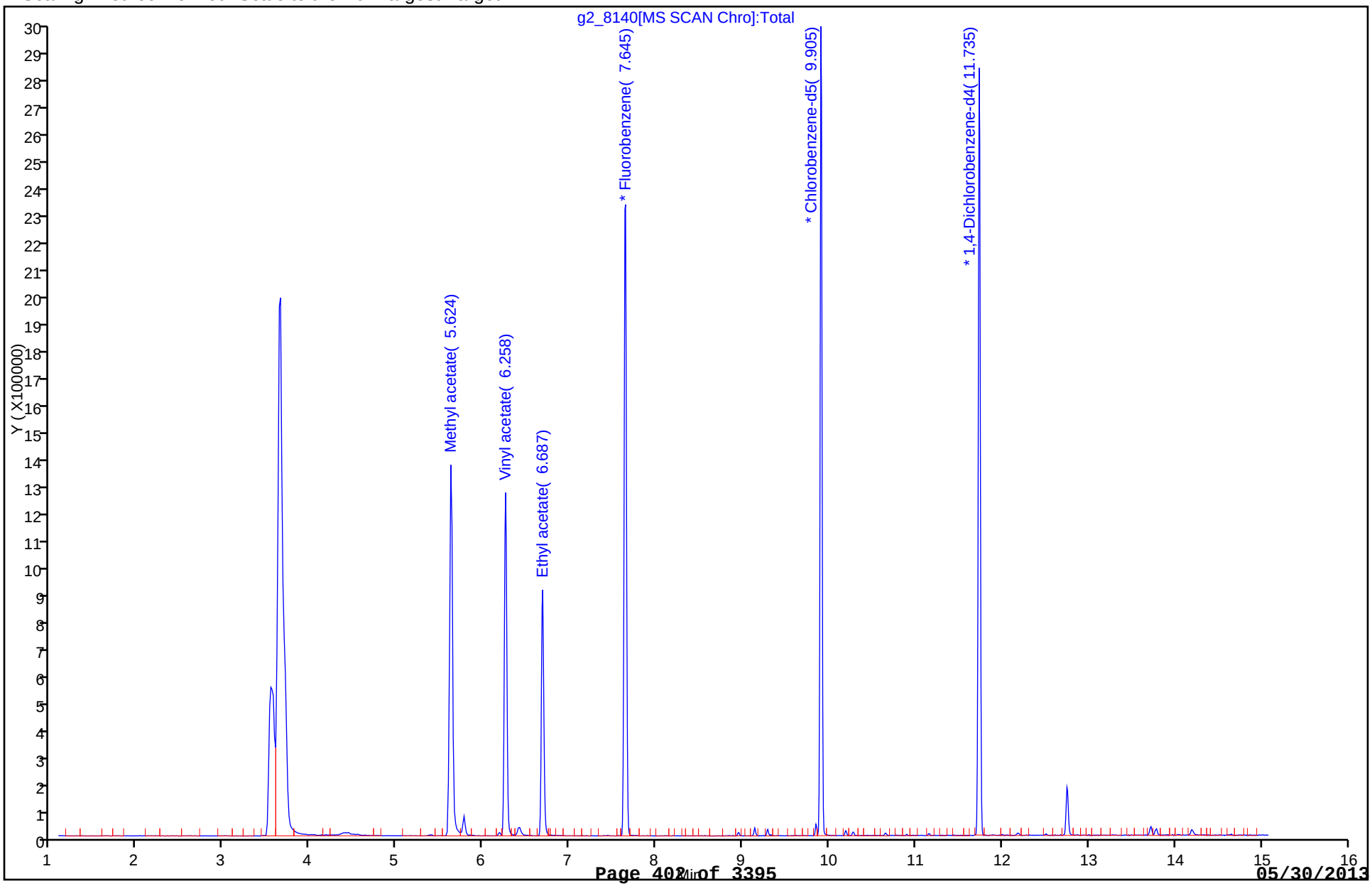
Report Date: 10-May-2013 16:20:15 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8140.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 02:37:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 25 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8141.D | | |
| Lims ID: | STD100 | Client ID: | |
| Inject. Date: | 10-May-2013 02:56:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | STD100 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 33 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 26 |
| Sublist: | chrom-SO_VMSG2_8260*sub39 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:16 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2185386 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 486022 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 97 | 751551 | 50.0 | |
| 48 Methyl acetate | 43 | 5.624 | 5.624 | 0.0 | 98 | 4659200 | 524.2 | |
| 57 Vinyl acetate | 43 | 6.258 | 6.258 | 0.0 | 97 | 4107930 | 205.7 | |
| 63 Ethyl acetate | 43 | 6.680 | 6.687 | -0.007 | 99 | 2277419 | 210.6 | |

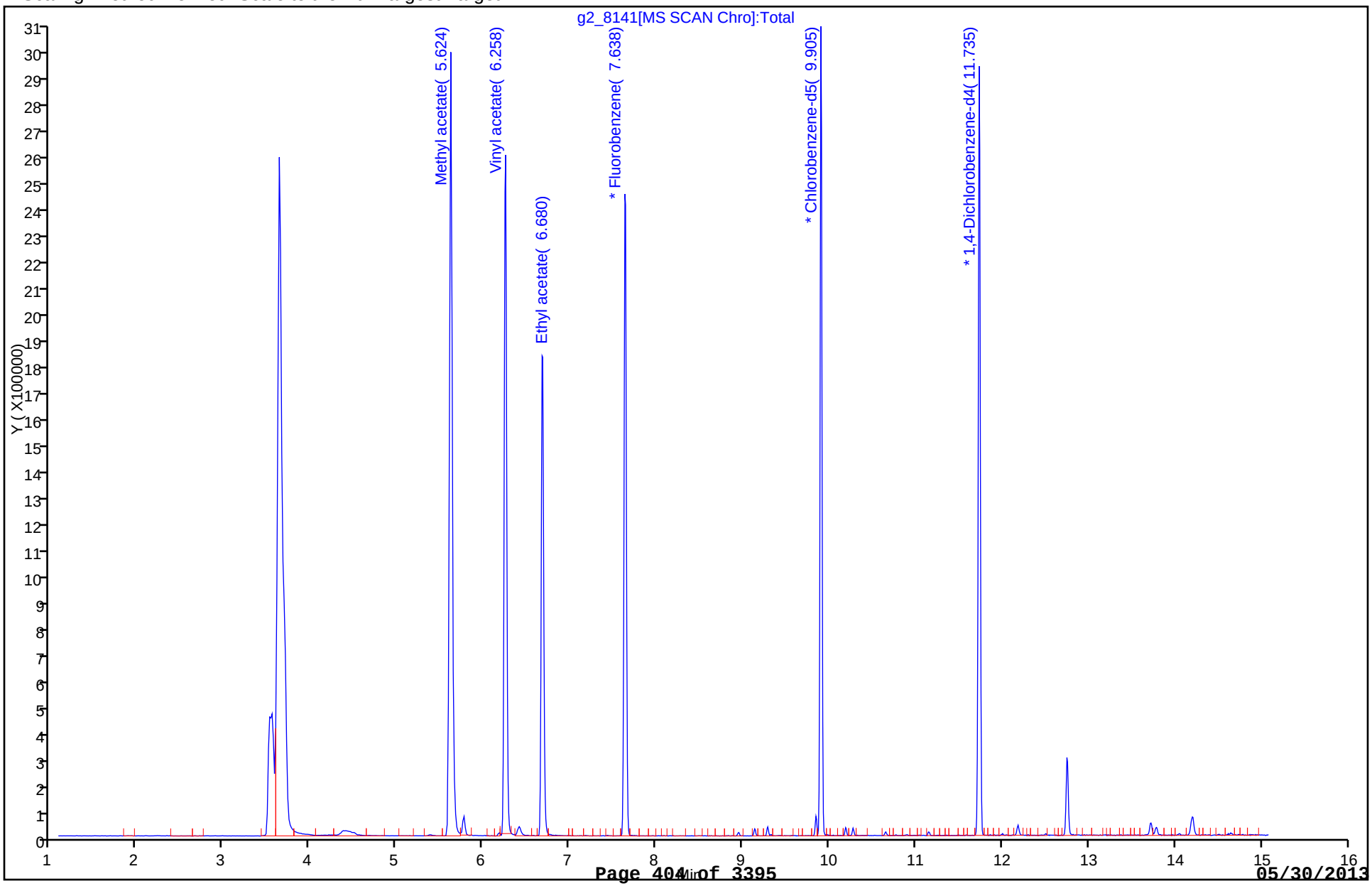
Report Date: 10-May-2013 16:20:16 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8141.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 02:56:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 26 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Lims ID: | STD200 | Client ID: | |
| Inject. Date: | 10-May-2013 03:16:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 8 |
| Sample ID: | STD200 | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 34 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 27 |
| Sublist: | chrom-SO_VMSG2_8260*sub39 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:20:17 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.646 | 7.645 | 0.001 | 99 | 2231045 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 87 | 497390 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 97 | 739801 | 50.0 | |
| 48 Methyl acetate | 43 | 5.624 | 5.624 | 0.0 | 98 | 8880750 | 978.7 | |
| 57 Vinyl acetate | 43 | 6.258 | 6.258 | 0.0 | 97 | 8694063 | 426.3 | |
| 63 Ethyl acetate | 43 | 6.687 | 6.687 | 0.0 | 99 | 4422317 | 400.6 | |

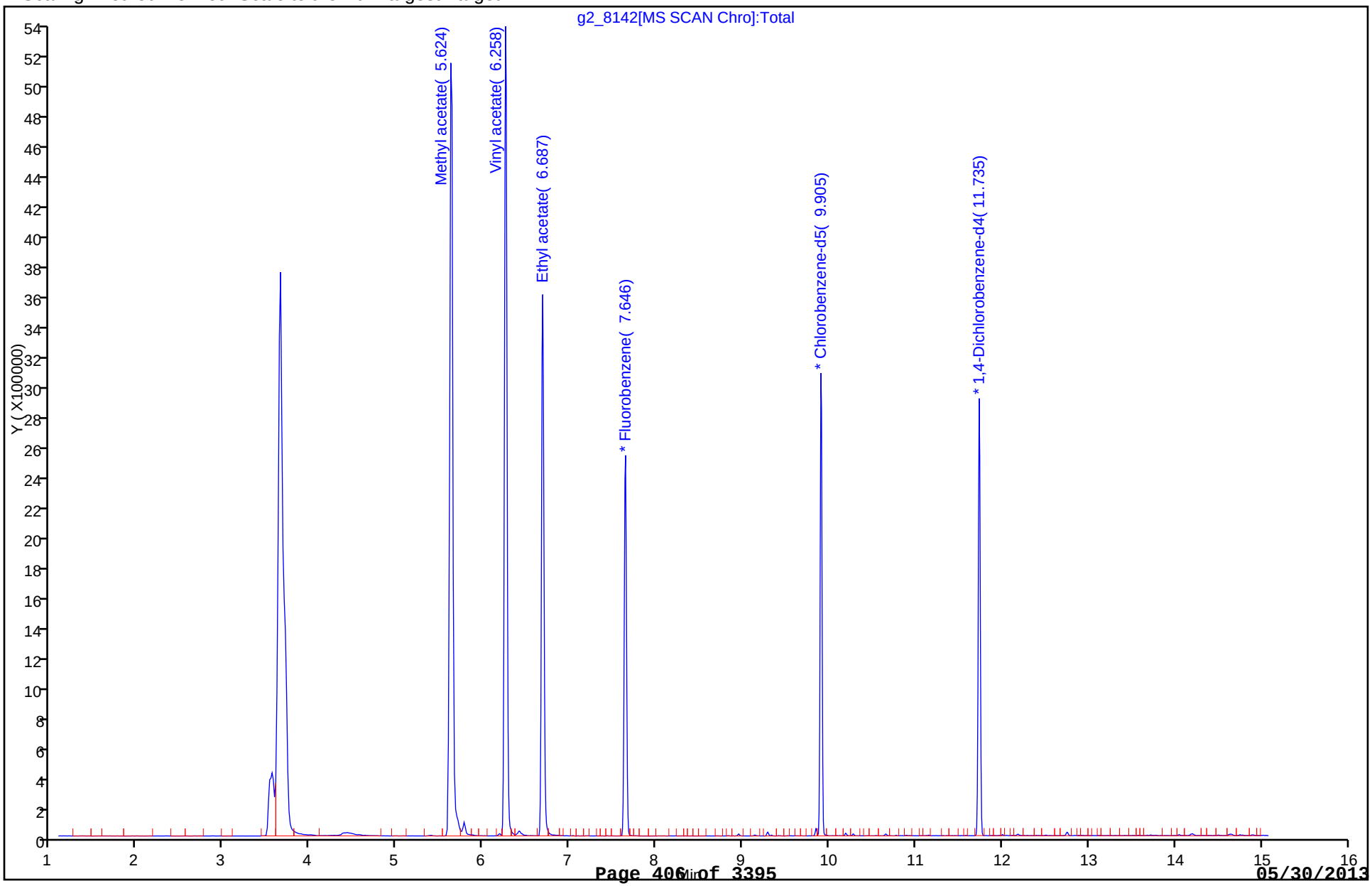
Report Date: 10-May-2013 16:20:17 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 03:16:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 27 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-173622/9 | g2_8149.D |
| Level 2 | IC 280-173622/10 | g2_8150.D |
| Level 3 | IC 280-173622/11 | g2_8151.D |
| Level 4 | IC 280-173622/12 | g2_8152.D |
| Level 5 | IC 280-173622/13 | g2_8153.D |
| Level 6 | IC 280-173622/14 | g2_8154.D |
| Level 7 | IC 280-173622/15 | g2_8155.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | +++++ 0.2978 | 0.3143 0.2875 | 0.3382 | 0.3220 | 0.3209 | Ave | | 0.3134 | | | | 5.8 | | 15.0 | | | |
| Chloromethane | +++++ 0.2978 | 0.3571 0.2878 | 0.3375 | 0.3155 | 0.3195 | Ave | | 0.3192 | | | 0.1000 | 8.0 | | 15.0 | | | |
| Vinyl chloride | +++++ 0.3153 | 0.3930 0.2997 | 0.3508 | 0.3321 | 0.3369 | Ave | | 0.3380 | | | | 9.5 | | 30.0 | | | |
| Bromomethane | +++++ 0.2178 | 0.2634 0.2167 | 0.2325 | 0.2238 | 0.2314 | Ave | | 0.2309 | | | | 7.5 | | 15.0 | | | |
| Chloroethane | +++++ 0.2059 | 0.2551 0.2020 | 0.2232 | 0.2170 | 0.2241 | Ave | | 0.2212 | | | | 8.5 | | 15.0 | | | |
| Ethanol | +++++ 0.0007 | +++++ 0.0007 | 0.0005 | 0.0005 | 0.0006 | Lin2 | -0.023 | 0.0007 | | | | | | | 0.9920 | | 0.9900 |
| Trichlorofluoromethane | +++++ 0.3945 | 0.4686 0.3765 | 0.4222 | 0.4097 | 0.4091 | Ave | | 0.4134 | | | | 7.5 | | 15.0 | | | |
| Acrolein | +++++ 0.0098 | 0.0097 0.0099 | 0.0091 | 0.0091 | 0.0097 | Ave | | 0.0095 | | | | 3.7 | | 15.0 | | | |
| Acetone | +++++ 0.0225 | +++++ 0.0225 | 0.0251 | 0.0233 | 0.0237 | Ave | | 0.0234 | | | | 4.6 | | 15.0 | | | |
| 1,1-Dichloroethene | +++++ 0.2368 | 0.2681 0.2373 | 0.2648 | 0.2475 | 0.2524 | Ave | | 0.2511 | | | | 5.3 | | 30.0 | | | |
| Acetonitrile | +++++ 0.0073 | 0.0094 0.0076 | 0.0080 | 0.0075 | 0.0079 | Ave | | 0.0080 | | | | 9.5 | | 15.0 | | | |
| Iodomethane | +++++ 0.3255 | 0.3787 0.3238 | 0.3513 | 0.3308 | 0.3392 | Ave | | 0.3416 | | | | 6.1 | | 15.0 | | | |
| 2-Methyl-2-propanol | +++++ 0.0062 | 0.0054 0.0064 | 0.0054 | 0.0055 | 0.0060 | Ave | | 0.0058 | | | | 7.5 | | 15.0 | | | |
| Methylene Chloride | +++++ 0.2314 | +++++ 0.2268 | 0.4311 | 0.3033 | 0.2754 | Lin2 | 0.4187 | 0.2224 | | | | | | | 0.9990 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Acrylonitrile | +++++<br>0.0284 | 0.0305<br>0.0285 | 0.0286 | 0.0277 | 0.0288 | Ave | | 0.0288 | | | | 3.3 | | 15.0 | | | |
| trans-1,2-Dichloroethene | +++++<br>0.3190 | 0.3769<br>0.3195 | 0.3518 | 0.3355 | 0.3398 | Ave | | 0.3404 | | | | 6.4 | | 15.0 | | | |
| Isopropyl ether | +++++<br>0.1777 | 0.1954<br>0.1740 | 0.1823 | 0.1797 | 0.1842 | Ave | | 0.1822 | | | | 4.0 | | 15.0 | | | |
| 1,1-Dichloroethane | +++++<br>0.4749 | 0.5548<br>0.4682 | 0.5241 | 0.4945 | 0.4982 | Ave | | 0.5024 | | | 0.1000 | 6.4 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | +++++<br>0.4239 | 0.4548<br>0.4121 | 0.4354 | 0.4283 | 0.4283 | Ave | | 0.4305 | | | | 3.3 | | 15.0 | | | |
| 2-Butanone (MEK) | +++++<br>0.0332 | 0.0360<br>0.0334 | 0.0320 | 0.0324 | 0.0335 | Ave | | 0.0334 | | | | 4.2 | | 15.0 | | | |
| Propionitrile | +++++<br>0.0099 | 0.0108<br>0.0102 | 0.0098 | 0.0094 | 0.0103 | Ave | | 0.0101 | | | | 4.9 | | 15.0 | | | |
| cis-1,2-Dichloroethene | +++++<br>0.2641 | 0.3060<br>0.2670 | 0.2817 | 0.2712 | 0.2756 | Ave | | 0.2776 | | | | 5.5 | | 15.0 | | | |
| 2,2-Dichloropropane | +++++<br>0.3789 | 0.4124<br>0.3741 | 0.3801 | 0.3829 | 0.3861 | Ave | | 0.3858 | | | | 3.5 | | 15.0 | | | |
| Methacrylonitrile | +++++<br>0.0514 | 0.0550<br>0.0495 | 0.0518 | 0.0505 | 0.0523 | Ave | | 0.0518 | | | | 3.6 | | 15.0 | | | |
| Chlorobromomethane | +++++<br>0.0862 | 0.1036<br>0.0875 | 0.0906 | 0.0860 | 0.0885 | Ave | | 0.0904 | | | | 7.4 | | 15.0 | | | |
| Chloroform | 0.4765<br>0.4090 | 0.4830<br>0.4052 | 0.4308 | 0.4274 | 0.4249 | Ave | | 0.4367 | | | | 7.1 | | 30.0 | | | |
| Isobutyl alcohol | +++++<br>0.0023 | 0.0021<br>0.0023 | 0.0023 | 0.0022 | 0.0024 | Ave | | 0.0022 | | | | 4.8 | | 15.0 | | | |
| 1,1,1-Trichloroethane | +++++<br>0.3923 | 0.4396<br>0.3857 | 0.4096 | 0.3977 | 0.4051 | Ave | | 0.4050 | | | | 4.7 | | 15.0 | | | |
| 1,1-Dichloropropene | +++++<br>0.4249 | 0.4731<br>0.4152 | 0.4533 | 0.4410 | 0.4315 | Ave | | 0.4398 | | | | 4.8 | | 15.0 | | | |
| Carbon tetrachloride | +++++<br>0.3323 | 0.3652<br>0.3340 | 0.3365 | 0.3306 | 0.3389 | Ave | | 0.3396 | | | | 3.8 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.2343<br>0.2105 | 0.2501<br>0.2051 | 0.2244 | 0.2158 | 0.2160 | Ave | | 0.2223 | | | | 7.0 | | 15.0 | | | |
| Benzene | 1.2240<br>1.0455 | 1.2443<br>1.0049 | 1.1404 | 1.1060 | 1.0823 | Ave | | 1.1211 | | | | 7.9 | | 15.0 | | | |
| Trichloroethene | +++++<br>0.2764 | 0.3109<br>0.2750 | 0.2915 | 0.2797 | 0.2794 | Ave | | 0.2855 | | | | 4.8 | | 15.0 | | | |
| 1,2-Dichloropropane | +++++<br>0.2317 | 0.2607<br>0.2295 | 0.2345 | 0.2310 | 0.2339 | Ave | | 0.2369 | | | | 5.0 | | 30.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | +++++<br>0.0007 | 0.0007<br>0.0007 | 0.0007 | 0.0006 | 0.0007 | Ave | | 0.0007 | | | | 5.7 | | 15.0 | | | |
| Dibromomethane | +++++<br>0.0799 | 0.0910<br>0.0801 | 0.0819 | 0.0786 | 0.0805 | Ave | | 0.0820 | | | | 5.5 | | 15.0 | | | |
| Dichlorobromomethane | 0.2343<br>0.2503 | 0.2556<br>0.2489 | 0.2319 | 0.2356 | 0.2455 | Ave | | 0.2431 | | | | 3.8 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 1.2837<br>1.5329 | 1.4476<br>1.5246 | 1.3239 | 1.4125 | 1.5026 | Ave | | 1.4325 | | | | 6.9 | | 15.0 | | | |
| 4-Methyl-2-pentanone (MIBK) | +++++<br>0.0785 | 0.0759<br>0.0783 | 0.0712 | 0.0745 | 0.0792 | Ave | | 0.0763 | | | | 4.0 | | 15.0 | | | |
| Toluene | +++++<br>1.0909 | 1.3259<br>1.0388 | 1.2112 | 1.1610 | 1.1440 | Ave | | 1.1620 | | | | 8.6 | | 30.0 | | | |
| trans-1,3-Dichloropropene | +++++<br>0.2227 | 0.2109<br>0.2232 | 0.1935 | 0.2036 | 0.2174 | Ave | | 0.2119 | | | | 5.5 | | 15.0 | | | |
| 1,1,2-Trichloroethane | +++++<br>0.1111 | 0.1278<br>0.1106 | 0.1159 | 0.1118 | 0.1121 | Ave | | 0.1149 | | | | 5.7 | | 15.0 | | | |
| 2-Hexanone | +++++<br>0.2585 | 0.2449<br>0.2584 | 0.2203 | 0.2395 | 0.2591 | Ave | | 0.2468 | | | | 6.2 | | 15.0 | | | |
| 1,3-Dichloropropane | 1.1408<br>1.0647 | 1.2197<br>1.0446 | 1.1042 | 1.0803 | 1.1029 | Ave | | 1.1082 | | | | 5.2 | | 15.0 | | | |
| Tetrachloroethene | +++++<br>1.0397 | 1.1810<br>1.0459 | 1.0972 | 1.0588 | 1.0362 | Ave | | 1.0765 | | | | 5.2 | | 15.0 | | | |
| Chlorodibromomethane | 0.5044<br>0.6336 | 0.5820<br>0.6506 | 0.5512 | 0.5864 | 0.6064 | Ave | | 0.5878 | | | | 8.4 | | 15.0 | | | |
| Ethylene Dibromide | +++++<br>0.5119 | 0.5281<br>0.5081 | 0.5065 | 0.5038 | 0.5087 | Ave | | 0.5112 | | | | 1.7 | | 15.0 | | | |
| 1-Chlorohexane | +++++<br>1.9426 | 2.1101<br>1.9080 | 1.9414 | 1.9628 | 1.9798 | Ave | | 1.9741 | | | | 3.6 | | 15.0 | | | |
| Chlorobenzene | 3.6971<br>3.1224 | 3.6611<br>3.0684 | 3.3890 | 3.2703 | 3.2462 | Ave | | 3.3507 | | | 0.3000 | 7.4 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.8957<br>0.9907 | 0.9554<br>1.0259 | 0.9063 | 0.9338 | 0.9598 | Ave | | 0.9525 | | | | 4.8 | | 15.0 | | | |
| Ethylbenzene | +++++<br>1.9992 | 2.2198<br>2.0054 | 2.1036 | 2.0449 | 2.0326 | Ave | | 2.0676 | | | | 4.0 | | 30.0 | | | |
| m-Xylene & p-Xylene | +++++<br>2.4182 | 2.6950<br>2.3409 | 2.5251 | 2.4950 | 2.4706 | Ave | | 2.4908 | | | | 4.8 | | 15.0 | | | |
| Styrene | +++++<br>3.5173 | 3.4441<br>3.4522 | 3.3520 | 3.3727 | 3.5280 | Ave | | 3.4444 | | | | 2.1 | | 15.0 | | | |
| o-Xylene | +++++<br>2.2929 | 2.4731<br>2.2890 | 2.3110 | 2.2982 | 2.3274 | Ave | | 2.3319 | | | | 3.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Bromoform | +++++<br>0.2888 | 0.2356<br>0.3039 | 0.2330 | 0.2456 | 0.2755 | Ave | | 0.2637 | | | 0.1000 | 11.0 | | 15.0 | | | |
| Isopropylbenzene | +++++<br>4.6218 | 5.1738<br>4.2797 | 4.8623 | 4.8191 | 4.7420 | Ave | | 4.7498 | | | | 6.2 | | 15.0 | | | |
| Cyclohexanone | +++++<br>0.0125 | 0.0127<br>0.0131 | 0.0109 | 0.0113 | 0.0128 | Ave | | 0.0122 | | | | 7.3 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.4250<br>0.4120 | 0.4527<br>0.4025 | 0.4156 | 0.4027 | 0.4181 | Ave | | 0.4184 | | | 0.3000 | 4.1 | | 15.0 | | | |
| 1,2,3-Trichloropropane | +++++<br>0.1058 | 0.1160<br>0.1037 | 0.1085 | 0.1038 | 0.1067 | Ave | | 0.1074 | | | | 4.2 | | 15.0 | | | |
| Bromobenzene | +++++<br>0.8254 | 0.9054<br>0.8363 | 0.8730 | 0.8088 | 0.8326 | Ave | | 0.8469 | | | | 4.2 | | 15.0 | | | |
| N-Propylbenzene | +++++<br>1.3386 | 1.4688<br>1.3194 | 1.3553 | 1.3496 | 1.3498 | Ave | | 1.3636 | | | | 3.9 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | +++++<br>3.7531 | 4.1536<br>3.5684 | 3.8360 | 3.8158 | 3.7870 | Ave | | 3.8190 | | | | 5.0 | | 15.0 | | | |
| 2-Chlorotoluene | +++++<br>1.0655 | 1.1842<br>1.0605 | 1.1148 | 1.0500 | 1.0624 | Ave | | 1.0896 | | | | 4.7 | | 15.0 | | | |
| 4-Chlorotoluene | +++++<br>1.0182 | 1.0884<br>0.9984 | 1.0576 | 1.0364 | 1.0253 | Ave | | 1.0374 | | | | 3.1 | | 15.0 | | | |
| tert-Butylbenzene | +++++<br>3.7855 | 4.0080<br>3.6856 | 3.7567 | 3.7890 | 3.7646 | Ave | | 3.7982 | | | | 2.9 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | +++++<br>3.6399 | 4.0152<br>3.4664 | 3.8360 | 3.7493 | 3.7369 | Ave | | 3.7406 | | | | 4.9 | | 15.0 | | | |
| sec-Butylbenzene | +++++<br>1.0894 | 1.0930<br>1.0808 | 1.0734 | 1.0798 | 1.0618 | Ave | | 1.0797 | | | | 1.0 | | 15.0 | | | |
| 4-Isopropyltoluene | +++++<br>4.2030 | 4.6629<br>3.9642 | 4.3323 | 4.3191 | 4.2639 | Ave | | 4.2909 | | | | 5.3 | | 15.0 | | | |
| 1,3-Dichlorobenzene | +++++<br>1.6997 | 1.9842<br>1.6641 | 1.8223 | 1.7382 | 1.7464 | Ave | | 1.7758 | | | | 6.5 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.9457<br>1.6261 | 1.8804<br>1.5969 | 1.7483 | 1.6664 | 1.6707 | Ave | | 1.7335 | | | | 7.6 | | 15.0 | | | |
| n-Butylbenzene | +++++<br>4.2760 | 4.8807<br>3.9597 | 4.5263 | 4.4503 | 4.4545 | Ave | | 4.4246 | | | | 6.8 | | 15.0 | | | |
| 1,2-Dichlorobenzene | +++++<br>1.3709 | 1.5443<br>1.3469 | 1.4148 | 1.4018 | 1.4084 | Ave | | 1.4145 | | | | 4.8 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | +++++<br>0.0539 | 0.0357<br>0.0590 | 0.0476 | 0.0437 | 0.0507 | Lin2 | -0.018 | 0.0541 | | | | | | | 0.9920 | | 0.9900 |
| 1,2,4-Trichlorobenzene | +++++<br>0.9595 | 1.0467<br>0.9775 | 0.9599 | 0.9618 | 0.9848 | Ave | | 0.9817 | | | | 3.4 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | 0.7955<br>0.6776 | 0.8266<br>0.6792 | 0.6803 | 0.6971 | 0.6925 | Ave | | 0.7213 | | | | 8.7 | | 15.0 | | | |
| Naphthalene | +++++<br>1.3093 | 1.1898<br>1.3469 | 1.1618 | 1.1856 | 1.3218 | Ave | | 1.2525 | | | | 6.5 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | +++++<br>0.7489 | 0.8580<br>0.7671 | 0.7341 | 0.7601 | 0.7758 | Ave | | 0.7740 | | | | 5.6 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-173622/9 | g2_8149.D |
| Level 2 | IC 280-173622/10 | g2_8150.D |
| Level 3 | IC 280-173622/11 | g2_8151.D |
| Level 4 | IC 280-173622/12 | g2_8152.D |
| Level 5 | IC 280-173622/13 | g2_8153.D |
| Level 6 | IC 280-173622/14 | g2_8154.D |
| Level 7 | IC 280-173622/15 | g2_8155.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | +++++<br>1366329 | 42248<br>2757540 | 94328 | 230374 | 457706 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Chloromethane | FB | Ave | +++++<br>1366577 | 47997<br>2760205 | 94142 | 225730 | 455730 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Vinyl chloride | FB | Ave | +++++<br>1446902 | 52828<br>2874924 | 97845 | 237596 | 480485 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Bromomethane | FB | Ave | +++++<br>999390 | 35408<br>2078814 | 64867 | 160102 | 330083 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Chloroethane | FB | Ave | +++++<br>944971 | 34286<br>1937246 | 62263 | 155247 | 319683 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Ethanol | FB | Lin2 | +++++<br>150699 | +++++<br>327599 | 6403 | 17473 | 45505 | +++++<br>1500 | +++++<br>3000 | 100 | 250 | 500 |
| Trichlorofluoromethane | FB | Ave | +++++<br>1810184 | 62981<br>3611872 | 117760 | 293137 | 583497 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Acrolein | FB | Ave | +++++<br>447964 | 13023<br>950837 | 25400 | 65015 | 138150 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| Acetone | FB | Ave | +++++<br>412336 | +++++<br>864781 | 28040 | 66598 | 135246 | +++++<br>120 | +++++<br>240 | 8.00 | 20.0 | 40.0 |
| 1,1-Dichloroethene | FB | Ave | +++++<br>1086590 | 36034<br>2275863 | 73860 | 177047 | 360042 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Acetonitrile | FB | Ave | +++++<br>335749 | 12685<br>733402 | 22348 | 53746 | 113076 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| Iodomethane | FB | Ave | +++++<br>1493419 | 50909<br>3105686 | 98007 | 236659 | 483813 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Methyl-2-propanol | FB | Ave | +++++<br>564896 | 14523<br>1233155 | 30362 | 78179 | 170286 | +++++<br>600 | 20.0<br>1200 | 40.0 | 100 | 200 |
| Methylene Chloride | FB | Lin2 | +++++<br>1061894 | +++++<br>2175650 | 120264 | 216993 | 392794 | +++++<br>30.0 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 |
| Acrylonitrile | FB | Ave | +++++<br>1304679 | 41017<br>2731662 | 79774 | 198162 | 410835 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| trans-1,2-Dichloroethene | FB | Ave | +++++<br>1463881 | 50662<br>3064774 | 98136 | 240047 | 484639 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Isopropyl ether | FB | Ave | +++++<br>4077723 | 131320<br>8345370 | 254304 | 642670 | 1313749 | +++++<br>150 | 5.00<br>300 | 10.0 | 25.0 | 50.0 |
| 1,1-Dichloroethane | FB | Ave | +++++<br>2179087 | 74578<br>4490703 | 146185 | 353790 | 710620 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Chloro-1,3-butadiene | FB | Ave | +++++<br>1945100 | 61136<br>3953380 | 121448 | 306432 | 610909 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Butanone (MEK) | FB | Ave | +++++<br>608514 | 19335<br>1281791 | 35667 | 92785 | 191130 | +++++<br>120 | 4.00<br>240 | 8.00 | 20.0 | 40.0 |
| Propionitrile | FB | Ave | +++++<br>451992 | 14573<br>974514 | 27339 | 67297 | 146327 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| cis-1,2-Dichloroethene | FB | Ave | +++++<br>1211932 | 41135<br>2561015 | 78568 | 194030 | 393144 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2,2-Dichloropropane | FB | Ave | +++++<br>1738703 | 55432<br>3588662 | 106023 | 273950 | 550738 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Methacrylonitrile | FB | Ave | +++++<br>2360294 | 73954<br>4752142 | 144437 | 361479 | 745556 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| Chlorobromomethane | FB | Ave | +++++<br>395705 | 13924<br>839232 | 25280 | 61513 | 126189 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Chloroform | FB | Ave | 18924<br>1876740 | 64921<br>3886949 | 120171 | 305768 | 606114 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Isobutyl alcohol | FB | Ave | +++++<br>207175 | 5619<br>443872 | 12590 | 31189 | 68488 | +++++<br>600 | 20.0<br>1200 | 40.0 | 100 | 200 |
| 1,1,1-Trichloroethane | FB | Ave | +++++<br>1800209 | 59083<br>3699781 | 114255 | 284538 | 577830 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1-Dichloropropene | FB | Ave | +++++<br>1949465 | 63589<br>3982615 | 126445 | 315502 | 615410 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Carbon tetrachloride | FB | Ave | +++++<br>1524848 | 49086<br>3204229 | 93859 | 236493 | 483420 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dichloroethane | FB | Ave | 9306<br>965764 | 33611<br>1967726 | 62594 | 154369 | 308046 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Benzene | FB | Ave | 48614<br>4797299 | 167256<br>9639228 | 318109 | 791249 | 1543767 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Trichloroethene | FB | Ave | +++++<br>1268248 | 41788<br>2638311 | 81301 | 200090 | 398495 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dichloropropane | FB | Ave | +++++<br>1063225 | 35039<br>2201306 | 65420 | 165245 | 333605 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,4-Dioxane | FB | Ave | +++++<br>150392 | 4468<br>312821 | 9203 | 20816 | 49564 | +++++<br>1500 | 50.0<br>3000 | 100 | 250 | 500 |
| Dibromomethane | FB | Ave | +++++<br>366839 | 12233<br>768043 | 22833 | 56237 | 114772 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorobromomethane | FB | Ave | 9304<br>1148568 | 34353<br>2387706 | 64675 | 168568 | 350183 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| cis-1,3-Dichloropropene | CBZ | Ave | 10355<br>1416664 | 38994<br>2960402 | 75055 | 202862 | 435181 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 4-Methyl-2-pentanone (MIBK) | FB | Ave | +++++<br>1440693 | 40812<br>3005281 | 79405 | 213078 | 451946 | +++++<br>120 | 4.00<br>240 | 8.00 | 20.0 | 40.0 |
| Toluene | FB | Ave | +++++<br>5005407 | 178222<br>9964093 | 337848 | 830637 | 1631715 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| trans-1,3-Dichloropropene | FB | Ave | +++++<br>1021836 | 28343<br>2140834 | 53966 | 145649 | 310100 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1,2-Trichloroethane | FB | Ave | +++++<br>509934 | 17183<br>1061302 | 32332 | 80010 | 159913 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Hexanone | CBZ | Ave | +++++<br>955538 | 26388<br>2007047 | 49957 | 137604 | 300205 | +++++<br>120 | 4.00<br>240 | 8.00 | 20.0 | 40.0 |
| 1,3-Dichloropropane | CBZ | Ave | 9202<br>983975 | 32853<br>2028503 | 62600 | 155154 | 319427 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Tetrachloroethene | CBZ | Ave | +++++<br>960917 | 31812<br>2030904 | 62203 | 152072 | 300110 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Chlorodibromomethane | CBZ | Ave | 4069<br>585558 | 15676<br>1263359 | 31248 | 84219 | 175623 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Ethylene Dibromide | CBZ | Ave | +++++<br>473133 | 14226<br>986607 | 28712 | 72352 | 147322 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1-Chlorohexane | CBZ | Ave | +++++<br>1765547 | 55894<br>3643483 | 108234 | 277228 | 563862 | +++++<br>29.5 | 0.983<br>59.0 | 1.97 | 4.92 | 9.83 |
| Chlorobenzene | CBZ | Ave | 29822<br>2885702 | 98617<br>5958204 | 192129 | 469689 | 940180 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 7225<br>915572 | 25735<br>1992183 | 51379 | 134118 | 277987 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Ethylbenzene | CBZ | Ave | +++++<br>1847621 | 59793<br>3894036 | 119259 | 293693 | 588680 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| m-Xylene & p-Xylene | CBZ | Ave | +++++<br>4469843 | 145189<br>9091030 | 286305 | 716696 | 1431092 | +++++<br>60.0 | 2.00<br>120 | 4.00 | 10.0 | 20.0 |
| Styrene | CBZ | Ave | +++++<br>3250692 | 92770<br>6703456 | 190029 | 484406 | 1021792 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| o-Xylene | CBZ | Ave | +++++<br>2119058 | 66617<br>4444809 | 131012 | 330076 | 674056 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Bromoform | CBZ | Ave | +++++<br>266922 | 6347<br>590043 | 13210 | 35274 | 79777 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Isopropylbenzene | DCB | Ave | +++++<br>5792817 | 189581<br>11455027 | 373835 | 937993 | 1886476 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Cyclohexanone | CBZ | Ave | +++++<br>463855 | 13734<br>1014222 | 24754 | 64823 | 148057 | +++++<br>1200 | 40.0<br>2400 | 80.0 | 200 | 400 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 4505<br>516413 | 16589<br>1077313 | 31955 | 78375 | 166340 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,3-Trichloropropane | DCB | Ave | +++++<br>132578 | 4249<br>277572 | 8344 | 20208 | 42444 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Bromobenzene | DCB | Ave | +++++<br>1034552 | 33175<br>2238538 | 67117 | 157429 | 331209 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| N-Propylbenzene | DCB | Ave | +++++<br>1677732 | 53820<br>3531593 | 104199 | 262694 | 536977 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | +++++<br>4704014 | 152199<br>9551097 | 294930 | 742712 | 1506552 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Chlorotoluene | DCB | Ave | +++++<br>1335452 | 43392<br>2838626 | 85711 | 204374 | 422648 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 4-Chlorotoluene | DCB | Ave | +++++<br>1276141 | 39883<br>2672272 | 81314 | 201730 | 407867 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| tert-Butylbenzene | DCB | Ave | +++++<br>4744537 | 146864<br>9864715 | 288833 | 737486 | 1497648 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | +++++<br>4562114 | 147127<br>9278168 | 294930 | 729763 | 1486616 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| sec-Butylbenzene | DCB | Ave | +++++<br>1365432 | 40051<br>2892763 | 82525 | 210176 | 422402 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 4-Isopropyltoluene | DCB | Ave | +++++<br>5267887 | 170862<br>10610578 | 333085 | 840671 | 1696274 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,3-Dichlorobenzene | DCB | Ave | +++++<br>2130391 | 72706<br>4453994 | 140102 | 338331 | 694750 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 20625<br>2038075 | 68902<br>4274133 | 134415 | 324357 | 664643 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| n-Butylbenzene | DCB | Ave | +++++<br>5359403 | 178840<br>10598511 | 348000 | 866212 | 1772109 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dichlorobenzene | DCB | Ave | +++++<br>1718263 | 56588<br>3604974 | 108774 | 272848 | 560277 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Lin2 | +++++<br>67504 | 1308<br>157938 | 3660 | 8510 | 20167 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | +++++<br>1202643 | 38353<br>2616449 | 73804 | 187214 | 391759 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Hexachlorobutadiene | DCB | Ave | 8433<br>849240 | 30289<br>1818022 | 52305 | 135683 | 275502 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Naphthalene | DCB | Ave | +++++<br>1641014 | 43598<br>3605216 | 89324 | 230770 | 525821 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | +++++<br>938621 | 31439<br>2053164 | 56440 | 147953 | 308648 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173622

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/10/2013 08:14 Calibration End Date: 05/10/2013 10:10 Calibration ID: 14005

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin2 = Linear 1/conc^2 ISTD |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8149.D
Lims ID: ic
Client ID:
Inject. Date: 10-May-2013 08:14:30
Dil. Factor: 1.0000
Sample Type: IC
Calib Level: 1
Sample ID: STD003
Misc. Info.:
Operator: ILCZYSZYND
Instrument ID: VMS_G2
Purge Vol: 20.000 mL
ALS Bottle#: 12
Lims Batch ID: 173622
Lims Sample ID: 9
Sublist: chrom-AQ_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m
Last Update: 11-May-2013 07:35:30
Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624 (60.25)
Column Dia: 0.25 mm
Process Host: DENPC277

First Level Reviewer: ilczyszynd
Date: 10-May-2013 10:28:02

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.641 | 0.007 | 99 | 1654911 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 336093 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 97 | 441682 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | | 3.951 | | | | | |
| 27 Chloromethane | 50 | | 4.146 | | | | | |
| 28 Vinyl chloride | 62 | | 4.300 | | | | | |
| 31 Bromomethane | 94 | | 4.663 | | | | | |
| 32 Chloroethane | 64 | | 4.747 | | | | | |
| 34 Ethanol | 45 | | 4.998 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.012 | | | | | |
| 41 Acrolein | 56 | | 5.292 | | | | | |
| 42 Acetone | 43 | | 5.389 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.431 | | | | | |
| 46 Acetonitrile | 41 | | 5.613 | | | | | |
| 47 Iodomethane | 142 | | 5.613 | | | | | |
| 51 2-Methyl-2-propanol | 59 | | 5.725 | | | | | |
| 52 Methylene Chloride | 84 | | 5.780 | | | | | |
| 53 Acrylonitrile | 53 | | 5.920 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.004 | | | | | |
| 58 Isopropyl ether | 87 | | 6.290 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.325 | | | | | |
| 60 2-Chloro-1,3-butadiene | 53 | | 6.397 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.690 | | | | | |
| 64 Propionitrile | 54 | | 6.740 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.754 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.790 | | | | | |
| 68 Methacrylonitrile | 41 | | 6.876 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.955 | | | | | |
| 70 Chloroform | 83 | 6.962 | 6.962 | 0.0 | 59 | 18924 | 0.3273 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | | 7.148 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.191 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.291 | | | | | |
| 76 Carbon tetrachloride | 117 | | 7.334 | | | | | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 49 | 9306 | 0.3162 | |
| 79 Benzene | 78 | 7.477 | 7.469 | 0.008 | 88 | 48614 | 0.3275 | |
| 80 n-Butanol | 56 | | 7.655 | | | | | |
| 81 Trichloroethene | 95 | | 7.934 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.113 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.170 | | | | | |
| 87 Dibromomethane | 93 | | 8.213 | | | | | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | -0.001 | 60 | 9304 | 0.2890 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 45 | 10355 | 0.2688 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.656 | | | | | |
| 93 Toluene | 91 | | 8.885 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.978 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.135 | | | | | |
| 97 2-Hexanone | 43 | | 9.243 | | | | | |
| 98 1,3-Dichloropropane | 76 | 9.264 | 9.271 | -0.007 | 54 | 9202 | 0.3088 | |
| 99 Tetrachloroethene | 164 | | 9.307 | | | | | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 18 | 4069 | 0.2575 | |
| 102 Ethylene Dibromide | 107 | | 9.593 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.822 | | | | | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 74 | 29822 | 0.3310 | |
| 106 Ethylbenzene | 106 | | 9.972 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 55 | 7225 | 0.2821 | |
| 107 m-Xylene & p-Xylene | 106 | | 10.051 | | | | | |
| 109 Styrene | 104 | | 10.365 | | | | | |
| 108 o-Xylene | 106 | | 10.365 | | | | | |
| 110 Bromoform | 173 | | 10.565 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.630 | | | | | |
| 113 Cyclohexanone | 55 | | 10.744 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 1 | 4505 | 0.3047 | |
| 116 1,2,3-Trichloropropane | 110 | | 10.894 | | | | | |
| 117 Bromobenzene | 156 | | 10.944 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.952 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.059 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.073 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.145 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.359 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.388 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.538 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.631 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.695 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 68 | 20625 | 0.3367 | |
| 129 n-Butylbenzene | 91 | | 11.996 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.124 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.854 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.819 | | | | | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 48 | 8433 | 0.3309 | |
| 134 Naphthalene | 128 | | 14.176 | | | | | |
| 135 1,2,3-Trichlorobenzene | 180 | | 14.498 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 0.2688 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 0 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 0 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 0.8738 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 0 | |
| S 138 Total BTEX | 1 | | | | 0 | | 0.3275 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 0 | |

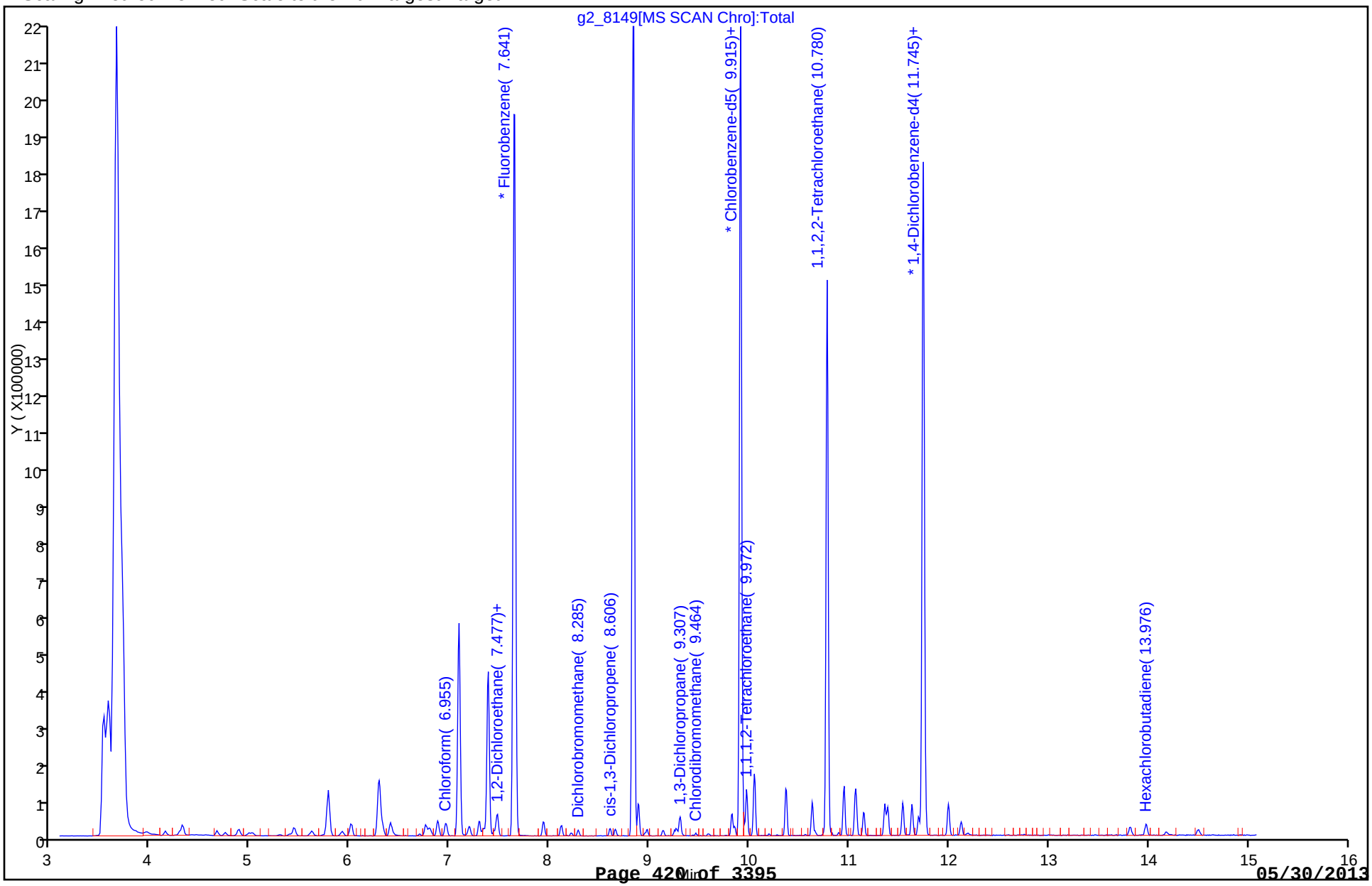
Report Date: 11-May-2013 07:35:30 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8149.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 08:14:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 9 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8150.D
Lims ID: ic
Client ID:
Inject. Date: 10-May-2013 08:33:30
Dil. Factor: 1.0000
Sample Type: IC
Calib Level: 2
Sample ID: STD001
Misc. Info.:
Operator: ILCZYSZYND
Instrument ID: VMS_G2
Purge Vol: 20.000 mL
ALS Bottle#: 13
Lims Batch ID: 173622
Lims Sample ID: 10
Sublist: chrom-AQ_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m
Last Update: 11-May-2013 07:35:29
Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624 (60.25)
Column Dia: 0.25 mm
Process Host: DENPC277

First Level Reviewer: ilczyszynd
Date: 10-May-2013 10:28:51

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.641 | 0.007 | 99 | 1680180 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.915 | -0.007 | 86 | 336703 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 96 | 458032 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 74 | 42248 | 1.00 | |
| 27 Chloromethane | 50 | 4.133 | 4.146 | -0.013 | 88 | 47997 | 1.12 | |
| 28 Vinyl chloride | 62 | 4.286 | 4.300 | -0.014 | 70 | 52828 | 1.16 | |
| 31 Bromomethane | 94 | 4.663 | 4.663 | 0.0 | 78 | 35408 | 1.14 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 80 | 34286 | 1.15 | |
| 34 Ethanol | 45 | | 4.998 | | | | | 19 |
| 35 Trichlorofluoromethane | 101 | 5.012 | 5.012 | 0.0 | 69 | 62981 | 1.13 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 65 | 13023 | 10.2 | |
| 42 Acetone | 43 | 5.390 | 5.389 | 0.001 | 85 | 17901 | 5.69 | |
| 45 1,1-Dichloroethene | 96 | 5.431 | 5.431 | 0.0 | 82 | 36034 | 1.07 | |
| 46 Acetonitrile | 41 | 5.613 | 5.613 | 0.0 | 25 | 12685 | 11.8 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 92 | 50909 | 1.11 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.725 | 0.014 | 76 | 14523 | 18.6 | |
| 52 Methylene Chloride | 84 | 5.781 | 5.780 | 0.001 | 89 | 88811 | 1.09 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 98 | 41017 | 10.6 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.004 | 6.004 | 0.0 | 92 | 50662 | 1.11 | |
| 58 Isopropyl ether | 87 | 6.290 | 6.290 | 0.0 | 95 | 131320 | 5.36 | |
| 59 1,1-Dichloroethane | 63 | 6.325 | 6.325 | 0.0 | 72 | 74578 | 1.10 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.397 | 0.007 | 86 | 61136 | 1.06 | |
| 62 2-Butanone (MEK) | 43 | 6.690 | 6.690 | 0.0 | 91 | 19335 | 4.31 | |
| 64 Propionitrile | 54 | 6.747 | 6.740 | 0.007 | 34 | 14573 | 10.8 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.754 | 6.754 | 0.0 | 64 | 41135 | 1.10 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.790 | 0.007 | 63 | 55432 | 1.07 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 92 | 73954 | 10.6 | |
| 69 Chlorobromomethane | 128 | 6.948 | 6.955 | -0.007 | 82 | 13924 | 1.15 | |
| 70 Chloroform | 83 | 6.962 | 6.962 | 0.0 | 77 | 64921 | 1.11 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.155 | 7.148 | 0.007 | 52 | 5619 | 18.6 | |
| 73 1,1,1-Trichloroethane | 97 | 7.191 | 7.191 | 0.0 | 88 | 59083 | 1.09 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.291 | 0.007 | 84 | 63589 | 1.08 | |
| 76 Carbon tetrachloride | 117 | 7.334 | 7.334 | 0.0 | 59 | 49086 | 1.08 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 63 | 33611 | 1.12 | |
| 79 Benzene | 78 | 7.469 | 7.469 | 0.0 | 95 | 167256 | 1.11 | |
| 80 n-Butanol | 56 | 7.648 | 7.655 | -0.007 | 28 | 15990 | 30.3 | |
| 81 Trichloroethene | 95 | 7.934 | 7.934 | 0.0 | 91 | 41788 | 1.09 | |
| 84 1,2-Dichloropropane | 63 | 8.120 | 8.113 | 0.007 | 88 | 35039 | 1.10 | |
| 86 1,4-Dioxane | 88 | 8.163 | 8.170 | -0.007 | 55 | 4468 | 51.0 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 80 | 12233 | 1.11 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 86 | 34353 | 1.05 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 71 | 38994 | 1.01 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 90 | 40812 | 3.98 | |
| 93 Toluene | 91 | 8.885 | 8.885 | 0.0 | 95 | 178222 | 1.14 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.971 | 8.978 | -0.007 | 78 | 28343 | 1.00 | |
| 96 1,1,2-Trichloroethane | 97 | 9.136 | 9.135 | 0.001 | 69 | 17183 | 1.11 | |
| 97 2-Hexanone | 43 | 9.250 | 9.243 | 0.007 | 90 | 26388 | 3.97 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 85 | 32853 | 1.10 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 88 | 31812 | 1.10 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 57 | 15676 | 0.99 | |
| 102 Ethylene Dibromide | 107 | 9.586 | 9.593 | -0.007 | 68 | 14226 | 1.03 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.822 | 0.007 | 94 | 55894 | 1.05 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 88 | 98617 | 1.09 | |
| 106 Ethylbenzene | 106 | 9.972 | 9.972 | 0.0 | 98 | 59793 | 1.07 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 66 | 25735 | 1.00 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 98 | 145189 | 2.16 | |
| 109 Styrene | 104 | 10.365 | 10.365 | 0.0 | 85 | 92770 | 1.00 | |
| 108 o-Xylene | 106 | 10.372 | 10.365 | 0.007 | 89 | 66617 | 1.06 | |
| 110 Bromoform | 173 | 10.566 | 10.565 | 0.001 | 57 | 6347 | 0.8935 | |
| 111 Isopropylbenzene | 105 | 10.630 | 10.630 | 0.0 | 94 | 189581 | 1.09 | |
| 113 Cyclohexanone | 55 | 10.751 | 10.744 | 0.007 | 72 | 13734 | 41.7 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 43 | 16589 | 1.08 | |
| 116 1,2,3-Trichloropropane | 110 | 10.894 | 10.894 | 0.0 | 43 | 4249 | 1.08 | |
| 117 Bromobenzene | 156 | 10.945 | 10.944 | 0.0 | 93 | 33175 | 1.07 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 97 | 53820 | 1.08 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.059 | 11.059 | 0.0 | 90 | 152199 | 1.09 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 93 | 43392 | 1.09 | |
| 121 4-Chlorotoluene | 126 | 11.145 | 11.145 | 0.0 | 98 | 39883 | 1.05 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 90 | 146864 | 1.06 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 95 | 147127 | 1.07 | |
| 124 sec-Butylbenzene | 134 | 11.538 | 11.538 | 0.0 | 90 | 40051 | 1.01 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 95 | 170862 | 1.09 | |
| 126 1,3-Dichlorobenzene | 146 | 11.695 | 11.695 | 0.0 | 81 | 72706 | 1.12 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 80 | 68902 | 1.08 | |
| 129 n-Butylbenzene | 91 | 11.996 | 11.996 | 0.0 | 96 | 178840 | 1.10 | |
| 130 1,2-Dichlorobenzene | 146 | 12.124 | 12.124 | 0.0 | 92 | 56588 | 1.09 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.854 | 0.007 | 1 | 1308 | 1.00 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.819 | 13.819 | 0.0 | 83 | 38353 | 1.07 | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 82 | 30289 | 1.15 | |
| 134 Naphthalene | 128 | 14.176 | 14.176 | 0.0 | 78 | 43598 | 0.9499 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.498 | 14.498 | 0.0 | 78 | 31439 | 1.11 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 2.01 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 2.21 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 3.22 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 4.04 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 3.22 | |
| S 138 Total BTEX | 1 | | | | 0 | | 6.55 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 2.21 | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

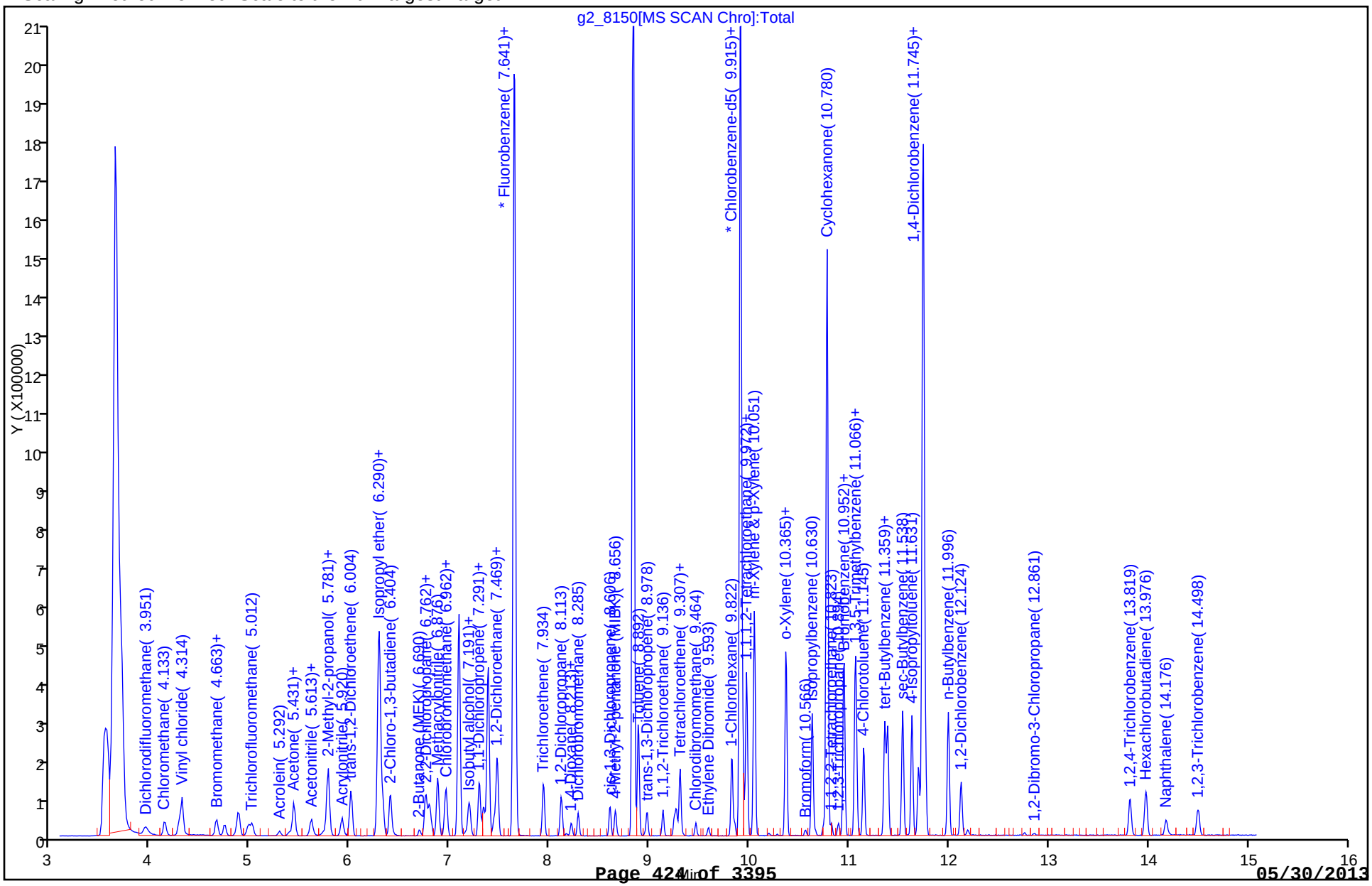
Report Date: 11-May-2013 07:35:29 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8150.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 08:33:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 10 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8151.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 10-May-2013 08:52:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | STD002 | | |
| Misc. Info.: | | | |
| Operator: | ILCZYSZYND | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 14 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 11 |
| Sublist: | chrom-AQ_VMSG2_8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m | | |
| Last Update: | 11-May-2013 07:35:28 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 10-May-2013 10:29:08 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.641 | 0.007 | 99 | 1743410 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 354322 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 96 | 480524 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 81 | 94328 | 2.16 | |
| 27 Chloromethane | 50 | 4.147 | 4.146 | 0.001 | 89 | 94142 | 2.11 | |
| 28 Vinyl chloride | 62 | 4.300 | 4.300 | 0.0 | 82 | 97845 | 2.08 | |
| 31 Bromomethane | 94 | 4.663 | 4.663 | 0.0 | 86 | 64867 | 2.01 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 93 | 62263 | 2.02 | |
| 34 Ethanol | 45 | 4.999 | 4.998 | 0.001 | 10 | 6403 | 104.2 | |
| 35 Trichlorofluoromethane | 101 | 5.026 | 5.012 | 0.014 | 81 | 117760 | 2.04 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 78 | 25400 | 19.1 | |
| 42 Acetone | 43 | 5.390 | 5.389 | 0.001 | 85 | 28040 | 8.58 | |
| 45 1,1-Dichloroethene | 96 | 5.445 | 5.431 | 0.014 | 86 | 73860 | 2.11 | |
| 46 Acetonitrile | 41 | 5.613 | 5.613 | 0.0 | 25 | 22348 | 20.1 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 96 | 98007 | 2.06 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.725 | 0.014 | 82 | 30362 | 37.5 | |
| 52 Methylene Chloride | 84 | 5.781 | 5.780 | 0.001 | 91 | 120264 | 1.99 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 98 | 79774 | 19.9 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.004 | 6.004 | 0.0 | 94 | 98136 | 2.07 | |
| 58 Isopropyl ether | 87 | 6.290 | 6.290 | 0.0 | 94 | 254304 | 10.0 | |
| 59 1,1-Dichloroethane | 63 | 6.326 | 6.325 | 0.001 | 79 | 146185 | 2.09 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.397 | 0.007 | 86 | 121448 | 2.02 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.690 | 0.007 | 91 | 35667 | 7.66 | |
| 64 Propionitrile | 54 | 6.747 | 6.740 | 0.007 | 77 | 27339 | 19.5 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.762 | 6.754 | 0.008 | 60 | 78568 | 2.03 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.790 | 0.007 | 64 | 106023 | 1.97 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 93 | 144437 | 20.0 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 87 | 25280 | 2.01 | |
| 70 Chloroform | 83 | 6.962 | 6.962 | 0.0 | 80 | 120171 | 1.97 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.155 | 7.148 | 0.007 | 63 | 12590 | 40.1 | |
| 73 1,1,1-Trichloroethane | 97 | 7.191 | 7.191 | 0.0 | 90 | 114255 | 2.02 | |
| 75 1,1-Dichloropropene | 75 | 7.291 | 7.291 | 0.0 | 88 | 126445 | 2.06 | |
| 76 Carbon tetrachloride | 117 | 7.334 | 7.334 | 0.0 | 62 | 93859 | 1.98 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 83 | 62594 | 2.02 | |
| 79 Benzene | 78 | 7.477 | 7.469 | 0.008 | 95 | 318109 | 2.03 | |
| 80 n-Butanol | 56 | 7.648 | 7.655 | -0.007 | 23 | 24707 | 61.2 | |
| 81 Trichloroethene | 95 | 7.934 | 7.934 | 0.0 | 91 | 81301 | 2.04 | |
| 84 1,2-Dichloropropane | 63 | 8.113 | 8.113 | 0.0 | 91 | 65420 | 1.98 | |
| 86 1,4-Dioxane | 88 | 8.170 | 8.170 | 0.0 | 67 | 9203 | 101.3 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 83 | 22833 | 2.00 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 89 | 64675 | 1.91 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 80 | 75055 | 1.85 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.657 | 8.656 | 0.0 | 96 | 79405 | 7.47 | |
| 93 Toluene | 91 | 8.885 | 8.885 | 0.0 | 97 | 337848 | 2.08 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 87 | 53966 | 1.83 | |
| 96 1,1,2-Trichloroethane | 97 | 9.136 | 9.135 | 0.001 | 83 | 32332 | 2.02 | |
| 97 2-Hexanone | 43 | 9.250 | 9.243 | 0.007 | 93 | 49957 | 7.14 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 89 | 62600 | 1.99 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 89 | 62203 | 2.04 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 75 | 31248 | 1.88 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 82 | 28712 | 1.98 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.822 | 0.007 | 97 | 108234 | 1.93 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 90 | 192129 | 2.02 | |
| 106 Ethylbenzene | 106 | 9.972 | 9.972 | 0.0 | 98 | 119259 | 2.03 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.965 | 9.972 | -0.007 | 75 | 51379 | 1.90 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 286305 | 4.06 | |
| 109 Styrene | 104 | 10.365 | 10.365 | 0.0 | 86 | 190029 | 1.95 | |
| 108 o-Xylene | 106 | 10.365 | 10.365 | 0.0 | 89 | 131012 | 1.98 | |
| 110 Bromoform | 173 | 10.566 | 10.565 | 0.001 | 75 | 13210 | 1.77 | |
| 111 Isopropylbenzene | 105 | 10.630 | 10.630 | 0.0 | 96 | 373835 | 2.05 | |
| 113 Cyclohexanone | 55 | 10.752 | 10.744 | 0.008 | 84 | 24754 | 71.5 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 58 | 31955 | 1.99 | |
| 116 1,2,3-Trichloropropane | 110 | 10.895 | 10.894 | 0.001 | 67 | 8344 | 2.02 | |
| 117 Bromobenzene | 156 | 10.945 | 10.944 | 0.001 | 91 | 67117 | 2.06 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 97 | 104199 | 1.99 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.059 | 11.059 | 0.0 | 95 | 294930 | 2.01 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 95 | 85711 | 2.05 | |
| 121 4-Chlorotoluene | 126 | 11.145 | 11.145 | 0.0 | 99 | 81314 | 2.04 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 91 | 288833 | 1.98 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 97 | 294930 | 2.05 | |
| 124 sec-Butylbenzene | 134 | 11.538 | 11.538 | 0.0 | 93 | 82525 | 1.99 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 95 | 333085 | 2.02 | |
| 126 1,3-Dichlorobenzene | 146 | 11.695 | 11.695 | 0.0 | 81 | 140102 | 2.05 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 81 | 134415 | 2.02 | |
| 129 n-Butylbenzene | 91 | 11.996 | 11.996 | 0.0 | 97 | 348000 | 2.05 | |
| 130 1,2-Dichlorobenzene | 146 | 12.124 | 12.124 | 0.0 | 94 | 108774 | 2.00 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.854 | 0.007 | 10 | 3660 | 2.10 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.819 | 13.819 | 0.0 | 89 | 73804 | 1.96 | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 89 | 52305 | 1.89 | |
| 134 Naphthalene | 128 | 14.177 | 14.176 | 0.0 | 87 | 89324 | 1.86 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.498 | 14.498 | 0.0 | 86 | 56440 | 1.90 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 3.67 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 4.10 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 6.04 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 7.52 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 6.04 | |
| S 138 Total BTEX | 1 | | | | 0 | | 12.2 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 4.10 | |

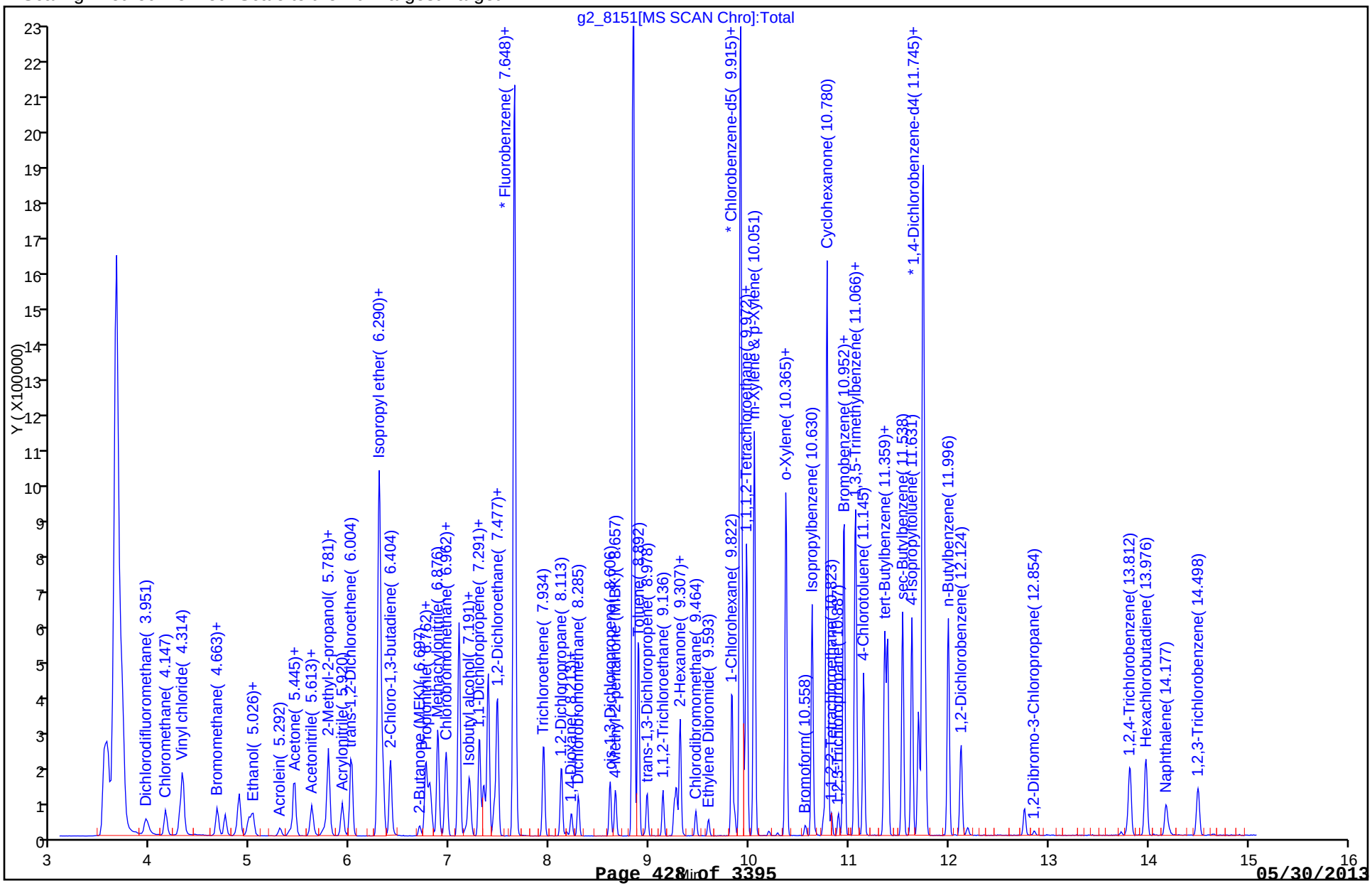
Report Date: 11-May-2013 07:35:29 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8151.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 08:52:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 11 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8152.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 10-May-2013 09:12:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | STD005 | | |
| Misc. Info.: | | | |
| Operator: | ILCZYSZYND | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 15 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 12 |
| Sublist: | chrom-AQ_VMSG2_8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m | | |
| Last Update: | 11-May-2013 07:35:27 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 10-May-2013 10:32:43 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.641 | 0.007 | 98 | 1788595 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 359060 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.738 | 11.745 | -0.007 | 96 | 486602 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 87 | 230374 | 5.14 | |
| 27 Chloromethane | 50 | 4.146 | 4.146 | 0.0 | 89 | 225730 | 4.94 | |
| 28 Vinyl chloride | 62 | 4.300 | 4.300 | 0.0 | 83 | 237596 | 4.91 | |
| 31 Bromomethane | 94 | 4.677 | 4.663 | 0.014 | 89 | 160102 | 4.84 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 155247 | 4.90 | |
| 34 Ethanol | 45 | 5.012 | 4.998 | 0.014 | 25 | 17473 | 218.9 | |
| 35 Trichlorofluoromethane | 101 | 5.026 | 5.012 | 0.014 | 83 | 293137 | 4.96 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 86 | 65015 | 47.6 | |
| 42 Acetone | 43 | 5.389 | 5.389 | 0.0 | 95 | 66598 | 19.9 | |
| 45 1,1-Dichloroethene | 96 | 5.445 | 5.431 | 0.014 | 88 | 177047 | 4.93 | |
| 46 Acetonitrile | 41 | 5.613 | 5.613 | 0.0 | 29 | 53746 | 47.1 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 97 | 236659 | 4.84 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.725 | 0.014 | 93 | 78179 | 94.0 | |
| 52 Methylene Chloride | 84 | 5.780 | 5.780 | 0.0 | 91 | 216993 | 4.94 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 98 | 198162 | 48.2 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.018 | 6.004 | 0.014 | 94 | 240047 | 4.93 | |
| 58 Isopropyl ether | 87 | 6.297 | 6.290 | 0.007 | 94 | 642670 | 24.6 | |
| 59 1,1-Dichloroethane | 63 | 6.332 | 6.325 | 0.007 | 81 | 353790 | 4.92 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.397 | 0.007 | 88 | 306432 | 4.97 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.690 | 0.007 | 97 | 92785 | 19.4 | |
| 64 Propionitrile | 54 | 6.747 | 6.740 | 0.007 | 77 | 67297 | 46.8 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.762 | 6.754 | 0.008 | 66 | 194030 | 4.88 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.790 | 0.007 | 64 | 273950 | 4.96 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 93 | 361479 | 48.8 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 92 | 61513 | 4.76 | |
| 70 Chloroform | 83 | 6.969 | 6.962 | 0.007 | 81 | 305768 | 4.89 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.155 | 7.148 | 0.007 | 85 | 31189 | 96.9 | |
| 73 1,1,1-Trichloroethane | 97 | 7.198 | 7.191 | 0.007 | 91 | 284538 | 4.91 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.291 | 0.007 | 90 | 315502 | 5.01 | |
| 76 Carbon tetrachloride | 117 | 7.341 | 7.334 | 0.007 | 74 | 236493 | 4.87 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 84 | 154369 | 4.85 | |
| 79 Benzene | 78 | 7.477 | 7.469 | 0.008 | 95 | 791249 | 4.93 | |
| 80 n-Butanol | 56 | 7.655 | 7.655 | 0.0 | 77 | 45321 | 135.4 | |
| 81 Trichloroethene | 95 | 7.941 | 7.934 | 0.007 | 94 | 200090 | 4.90 | |
| 84 1,2-Dichloropropane | 63 | 8.120 | 8.113 | 0.007 | 93 | 165245 | 4.88 | |
| 86 1,4-Dioxane | 88 | 8.170 | 8.170 | 0.0 | 81 | 20816 | 223.3 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 85 | 56237 | 4.79 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | -0.001 | 93 | 168568 | 4.85 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 83 | 202862 | 4.93 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 97 | 213078 | 19.5 | |
| 93 Toluene | 91 | 8.892 | 8.885 | 0.007 | 98 | 830637 | 5.00 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 90 | 145649 | 4.80 | |
| 96 1,1,2-Trichloroethane | 97 | 9.135 | 9.135 | 0.0 | 85 | 80010 | 4.87 | |
| 97 2-Hexanone | 43 | 9.250 | 9.243 | 0.007 | 93 | 137604 | 19.4 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 90 | 155154 | 4.87 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 89 | 152072 | 4.92 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 86 | 84219 | 4.99 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 94 | 72352 | 4.93 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.822 | 0.007 | 98 | 277228 | 4.89 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 94 | 469689 | 4.88 | |
| 106 Ethylbenzene | 106 | 9.972 | 9.972 | 0.0 | 99 | 293693 | 4.95 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 80 | 134118 | 4.90 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 716696 | 10.0 | |
| 109 Styrene | 104 | 10.365 | 10.365 | 0.0 | 87 | 484406 | 4.90 | |
| 108 o-Xylene | 106 | 10.365 | 10.365 | 0.0 | 88 | 330076 | 4.93 | |
| 110 Bromoform | 173 | 10.558 | 10.565 | -0.007 | 90 | 35274 | 4.66 | |
| 111 Isopropylbenzene | 105 | 10.630 | 10.630 | 0.0 | 96 | 937993 | 5.07 | |
| 113 Cyclohexanone | 55 | 10.744 | 10.744 | 0.0 | 86 | 64823 | 184.6 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 64 | 78375 | 4.81 | |
| 116 1,2,3-Trichloropropane | 110 | 10.894 | 10.894 | 0.0 | 82 | 20208 | 4.83 | |
| 117 Bromobenzene | 156 | 10.952 | 10.944 | 0.008 | 95 | 157429 | 4.78 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 97 | 262694 | 4.95 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.059 | 11.059 | 0.0 | 94 | 742712 | 5.00 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 95 | 204374 | 4.82 | |
| 121 4-Chlorotoluene | 126 | 11.145 | 11.145 | 0.0 | 98 | 201730 | 5.00 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 92 | 737486 | 4.99 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 98 | 729763 | 5.01 | |
| 124 sec-Butylbenzene | 134 | 11.538 | 11.538 | 0.0 | 95 | 210176 | 5.00 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 97 | 840671 | 5.03 | |
| 126 1,3-Dichlorobenzene | 146 | 11.695 | 11.695 | 0.0 | 96 | 338331 | 4.89 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 84 | 324357 | 4.81 | |
| 129 n-Butylbenzene | 91 | 11.995 | 11.996 | -0.001 | 97 | 866212 | 5.03 | |
| 130 1,2-Dichlorobenzene | 146 | 12.124 | 12.124 | 0.0 | 95 | 272848 | 4.96 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.854 | 12.854 | 0.0 | 37 | 8510 | 4.38 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.819 | 13.819 | 0.0 | 92 | 187214 | 4.90 | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 94 | 135683 | 4.83 | |
| 134 Naphthalene | 128 | 14.176 | 14.176 | 0.0 | 95 | 230770 | 4.73 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.498 | 14.498 | 0.0 | 92 | 147953 | 4.91 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 9.73 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 9.81 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 14.9 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 19.4 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 14.9 | |
| S 138 Total BTEX | 1 | | | | 0 | | 29.8 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 9.81 | |

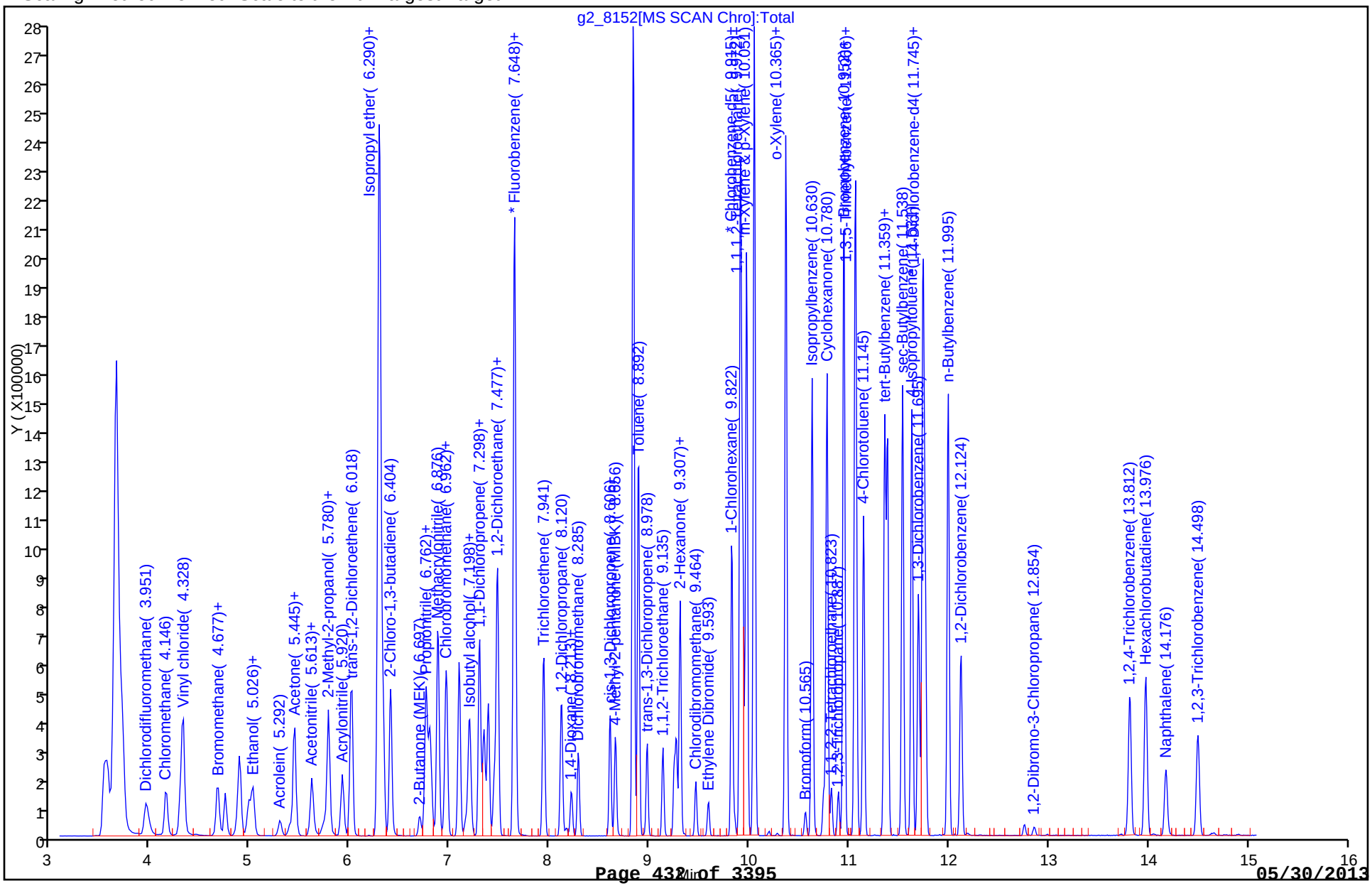
Report Date: 11-May-2013 07:35:28 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8152.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 09:12:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 12 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8153.D
Lims ID: ic
Client ID:
Inject. Date: 10-May-2013 09:31:30
Dil. Factor: 1.0000
Sample Type: IC
Calib Level: 5
Sample ID: STD010
Misc. Info.:
Operator: ILCZYSZYND
Instrument ID: VMS_G2
Purge Vol: 20.000 mL
ALS Bottle#: 16
Lims Batch ID: 173622
Lims Sample ID: 13
Sublist: chrom-AQ_VMSG2_8260*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m
Last Update: 11-May-2013 07:35:26
Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624 (60.25)
Column Dia: 0.25 mm
Process Host: DENPC277

First Level Reviewer: ilczyszynd
Date: 10-May-2013 10:30:20

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.641 | 7.641 | 0.0 | 98 | 1782933 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 83 | 362027 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 95 | 497275 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 87 | 457706 | 10.2 | |
| 27 Chloromethane | 50 | 4.146 | 4.146 | 0.0 | 89 | 455730 | 10.0 | |
| 28 Vinyl chloride | 62 | 4.300 | 4.300 | 0.0 | 84 | 480485 | 9.97 | |
| 31 Bromomethane | 94 | 4.663 | 4.663 | 0.0 | 90 | 330083 | 10.0 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 319683 | 10.1 | |
| 34 Ethanol | 45 | 4.998 | 4.998 | 0.0 | 27 | 45505 | 515.3 | |
| 35 Trichlorofluoromethane | 101 | 5.012 | 5.012 | 0.0 | 87 | 583497 | 9.89 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 91 | 138150 | 101.5 | |
| 42 Acetone | 43 | 5.389 | 5.389 | 0.0 | 99 | 135246 | 40.5 | |
| 45 1,1-Dichloroethene | 96 | 5.431 | 5.431 | 0.0 | 88 | 360042 | 10.1 | |
| 46 Acetonitrile | 41 | 5.613 | 5.613 | 0.0 | 30 | 113076 | 99.4 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 97 | 483813 | 9.93 | |
| 51 2-Methyl-2-propanol | 59 | 5.725 | 5.725 | 0.0 | 96 | 170286 | 205.5 | |
| 52 Methylene Chloride | 84 | 5.780 | 5.780 | 0.0 | 86 | 392794 | 10.5 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 98 | 410835 | 100.2 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.004 | 6.004 | 0.0 | 95 | 484639 | 9.98 | |
| 58 Isopropyl ether | 87 | 6.290 | 6.290 | 0.0 | 94 | 1313749 | 50.5 | |
| 59 1,1-Dichloroethane | 63 | 6.325 | 6.325 | 0.0 | 81 | 710620 | 9.92 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.397 | 6.397 | 0.0 | 88 | 610909 | 9.95 | |
| 62 2-Butanone (MEK) | 43 | 6.690 | 6.690 | 0.0 | 100 | 191130 | 40.1 | |
| 64 Propionitrile | 54 | 6.740 | 6.740 | 0.0 | 85 | 146327 | 102.0 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.754 | 6.754 | 0.0 | 69 | 393144 | 9.93 | |
| 67 2,2-Dichloropropane | 77 | 6.790 | 6.790 | 0.0 | 87 | 550738 | 10.0 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 93 | 745556 | 101.0 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 87 | 126189 | 9.79 | |
| 70 Chloroform | 83 | 6.962 | 6.962 | 0.0 | 81 | 606114 | 9.73 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.148 | 7.148 | 0.0 | 85 | 68488 | 213.4 | |
| 73 1,1,1-Trichloroethane | 97 | 7.191 | 7.191 | 0.0 | 91 | 577830 | 10.0 | |
| 75 1,1-Dichloropropene | 75 | 7.291 | 7.291 | 0.0 | 92 | 615410 | 9.81 | |
| 76 Carbon tetrachloride | 117 | 7.334 | 7.334 | 0.0 | 77 | 483420 | 9.98 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 78 | 308046 | 9.72 | |
| 79 Benzene | 78 | 7.469 | 7.469 | 0.0 | 96 | 1543767 | 9.65 | |
| 80 n-Butanol | 56 | 7.655 | 7.655 | 0.0 | 80 | 88001 | 295.1 | |
| 81 Trichloroethene | 95 | 7.934 | 7.934 | 0.0 | 95 | 398495 | 9.79 | |
| 84 1,2-Dichloropropane | 63 | 8.113 | 8.113 | 0.0 | 94 | 333605 | 9.87 | |
| 86 1,4-Dioxane | 88 | 8.170 | 8.170 | 0.0 | 92 | 49564 | 533.3 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 86 | 114772 | 9.81 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 93 | 350183 | 10.1 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 88 | 435181 | 10.5 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 97 | 451946 | 41.5 | |
| 93 Toluene | 91 | 8.885 | 8.885 | 0.0 | 98 | 1631715 | 9.85 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 91 | 310100 | 10.3 | |
| 96 1,1,2-Trichloroethane | 97 | 9.135 | 9.135 | 0.0 | 86 | 159913 | 9.76 | |
| 97 2-Hexanone | 43 | 9.243 | 9.243 | 0.0 | 98 | 300205 | 42.0 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 90 | 319427 | 9.95 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 90 | 300110 | 9.63 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 88 | 175623 | 10.3 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 98 | 147322 | 9.95 | |
| 103 1-Chlorohexane | 91 | 9.822 | 9.822 | 0.0 | 98 | 563862 | 9.86 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 92 | 940180 | 9.69 | |
| 106 Ethylbenzene | 106 | 9.972 | 9.972 | 0.0 | 98 | 588680 | 9.83 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 86 | 277987 | 10.1 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 1431092 | 19.8 | |
| 109 Styrene | 104 | 10.365 | 10.365 | 0.0 | 87 | 1021792 | 10.2 | |
| 108 o-Xylene | 106 | 10.365 | 10.365 | 0.0 | 87 | 674056 | 9.98 | |
| 110 Bromoform | 173 | 10.565 | 10.565 | 0.0 | 96 | 79777 | 10.4 | |
| 111 Isopropylbenzene | 105 | 10.630 | 10.630 | 0.0 | 96 | 1886476 | 9.98 | |
| 113 Cyclohexanone | 55 | 10.744 | 10.744 | 0.0 | 93 | 148057 | 418.3 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 71 | 166340 | 10.0 | |
| 116 1,2,3-Trichloropropane | 110 | 10.894 | 10.894 | 0.0 | 83 | 42444 | 9.93 | |
| 117 Bromobenzene | 156 | 10.944 | 10.944 | 0.0 | 96 | 331209 | 9.83 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 96 | 536977 | 9.90 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.059 | 11.059 | 0.0 | 93 | 1506552 | 9.92 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 95 | 422648 | 9.75 | |
| 121 4-Chlorotoluene | 126 | 11.145 | 11.145 | 0.0 | 98 | 407867 | 9.88 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 93 | 1497648 | 9.91 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 98 | 1486616 | 10.0 | |
| 124 sec-Butylbenzene | 134 | 11.538 | 11.538 | 0.0 | 95 | 422402 | 9.83 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 95 | 1696274 | 9.94 | |
| 126 1,3-Dichlorobenzene | 146 | 11.695 | 11.695 | 0.0 | 89 | 694750 | 9.83 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 92 | 664643 | 9.64 | |
| 129 n-Butylbenzene | 91 | 11.996 | 11.996 | 0.0 | 98 | 1772109 | 10.1 | |
| 130 1,2-Dichlorobenzene | 146 | 12.124 | 12.124 | 0.0 | 96 | 560277 | 9.96 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.854 | 12.854 | 0.0 | 53 | 20167 | 9.71 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.819 | 13.819 | 0.0 | 92 | 391759 | 10.0 | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 95 | 275502 | 9.60 | |
| 134 Naphthalene | 128 | 14.176 | 14.176 | 0.0 | 97 | 525821 | 10.6 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.498 | 14.498 | 0.0 | 92 | 308648 | 10.0 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 20.8 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.9 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 29.8 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 40.6 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 29.8 | |
| S 138 Total BTEX | 1 | | | | 0 | | 59.1 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 19.9 | |

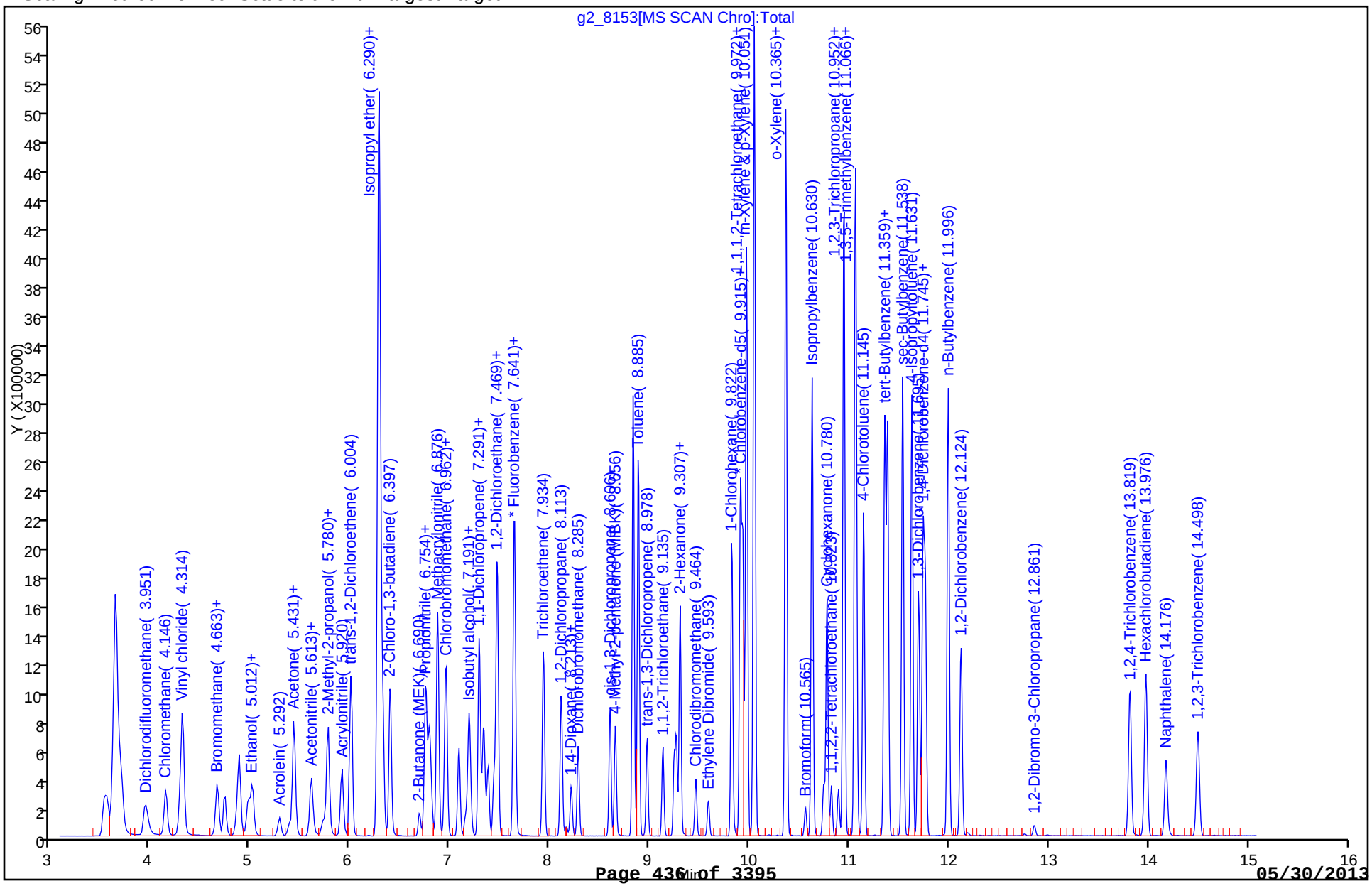
Report Date: 11-May-2013 07:35:27 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8153.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 09:31:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 13 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8154.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 10-May-2013 09:51:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | STD030 | | |
| Misc. Info.: | | | |
| Operator: | ILCZYSZYND | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 17 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 14 |
| Sublist: | chrom-AQ_VMSG2_8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m | | |
| Last Update: | 11-May-2013 07:35:25 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 10-May-2013 10:33:19 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 98 | 1911818 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 81 | 385083 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 96 | 522233 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 88 | 1366329 | 28.5 | |
| 27 Chloromethane | 50 | 4.160 | 4.146 | 0.014 | 89 | 1366577 | 28.0 | |
| 28 Vinyl chloride | 62 | 4.314 | 4.300 | 0.014 | 84 | 1446902 | 28.0 | |
| 31 Bromomethane | 94 | 4.677 | 4.663 | 0.014 | 90 | 999390 | 28.3 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 944971 | 27.9 | |
| 34 Ethanol | 45 | 5.012 | 4.998 | 0.014 | 21 | 150699 | 1518.4 | |
| 35 Trichlorofluoromethane | 101 | 5.026 | 5.012 | 0.014 | 87 | 1810184 | 28.6 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 96 | 447964 | 307.0 | |
| 42 Acetone | 43 | 5.403 | 5.389 | 0.014 | 97 | 412336 | 115.1 | |
| 45 1,1-Dichloroethene | 96 | 5.445 | 5.431 | 0.014 | 89 | 1086590 | 28.3 | |
| 46 Acetonitrile | 41 | 5.613 | 5.613 | 0.0 | 97 | 335749 | 275.3 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 98 | 1493419 | 28.6 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.725 | 0.014 | 97 | 564896 | 635.7 | |
| 52 Methylene Chloride | 84 | 5.780 | 5.780 | 0.0 | 88 | 1061894 | 29.3 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 99 | 1304679 | 296.7 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.018 | 6.004 | 0.014 | 95 | 1463881 | 28.1 | |
| 58 Isopropyl ether | 87 | 6.297 | 6.290 | 0.007 | 92 | 4077723 | 146.3 | |
| 59 1,1-Dichloroethane | 63 | 6.332 | 6.325 | 0.007 | 81 | 2179087 | 28.4 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.397 | 0.007 | 89 | 1945100 | 29.5 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.690 | 0.007 | 100 | 608514 | 119.1 | |
| 64 Propionitrile | 54 | 6.747 | 6.740 | 0.007 | 68 | 451992 | 294.0 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.761 | 6.754 | 0.007 | 67 | 1211932 | 28.5 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.790 | 0.007 | 89 | 1738703 | 29.5 | |
| 68 Methacrylonitrile | 41 | 6.883 | 6.876 | 0.007 | 93 | 2360294 | 298.1 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 89 | 395705 | 28.6 | |
| 70 Chloroform | 83 | 6.969 | 6.962 | 0.007 | 80 | 1876740 | 28.1 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.155 | 7.148 | 0.007 | 93 | 207175 | 602.1 | |
| 73 1,1,1-Trichloroethane | 97 | 7.198 | 7.191 | 0.007 | 92 | 1800209 | 29.1 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.291 | 0.007 | 95 | 1949465 | 29.0 | |
| 76 Carbon tetrachloride | 117 | 7.341 | 7.334 | 0.007 | 76 | 1524848 | 29.4 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 91 | 965764 | 28.4 | |
| 79 Benzene | 78 | 7.477 | 7.469 | 0.007 | 96 | 4797299 | 28.0 | |
| 80 n-Butanol | 56 | 7.655 | 7.655 | 0.0 | 89 | 273398 | 917.6 | |
| 81 Trichloroethene | 95 | 7.941 | 7.934 | 0.007 | 95 | 1268248 | 29.0 | |
| 84 1,2-Dichloropropane | 63 | 8.120 | 8.113 | 0.007 | 94 | 1063225 | 29.3 | |
| 86 1,4-Dioxane | 88 | 8.170 | 8.170 | 0.0 | 85 | 150392 | 1509.2 | |
| 87 Dibromomethane | 93 | 8.220 | 8.213 | 0.007 | 87 | 366839 | 29.3 | |
| 88 Dichlorobromomethane | 83 | 8.284 | 8.285 | -0.001 | 94 | 1148568 | 30.9 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 90 | 1416664 | 32.1 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 97 | 1440693 | 123.5 | |
| 93 Toluene | 91 | 8.892 | 8.885 | 0.007 | 98 | 5005407 | 28.2 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 91 | 1021836 | 31.5 | |
| 96 1,1,2-Trichloroethane | 97 | 9.135 | 9.135 | 0.0 | 86 | 509934 | 29.0 | |
| 97 2-Hexanone | 43 | 9.250 | 9.243 | 0.007 | 96 | 955538 | 125.7 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 91 | 983975 | 28.8 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 91 | 960917 | 29.0 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 89 | 585558 | 32.3 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 98 | 473133 | 30.0 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.822 | 0.007 | 99 | 1765547 | 29.0 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 93 | 2885702 | 28.0 | |
| 106 Ethylbenzene | 106 | 9.979 | 9.972 | 0.007 | 98 | 1847621 | 29.0 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 87 | 915572 | 31.2 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 4469843 | 58.3 | |
| 109 Styrene | 104 | 10.365 | 10.365 | 0.0 | 88 | 3250692 | 30.6 | |
| 108 o-Xylene | 106 | 10.372 | 10.365 | 0.007 | 88 | 2119058 | 29.5 | |
| 110 Bromoform | 173 | 10.565 | 10.565 | 0.0 | 96 | 266922 | 32.9 | |
| 111 Isopropylbenzene | 105 | 10.630 | 10.630 | 0.0 | 96 | 5792817 | 29.2 | |
| 113 Cyclohexanone | 55 | 10.744 | 10.744 | 0.0 | 89 | 463855 | 1232.0 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 83 | 516413 | 29.5 | |
| 116 1,2,3-Trichloropropane | 110 | 10.894 | 10.894 | 0.0 | 77 | 132578 | 29.5 | |
| 117 Bromobenzene | 156 | 10.944 | 10.944 | 0.0 | 97 | 1034552 | 29.2 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 96 | 1677732 | 29.5 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.059 | 11.059 | 0.0 | 94 | 4704014 | 29.5 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 95 | 1335452 | 29.3 | |
| 121 4-Chlorotoluene | 126 | 11.145 | 11.145 | 0.0 | 98 | 1276141 | 29.4 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 88 | 4744537 | 29.9 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 98 | 4562114 | 29.2 | |
| 124 sec-Butylbenzene | 134 | 11.538 | 11.538 | 0.0 | 95 | 1365432 | 30.3 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 94 | 5267887 | 29.4 | |
| 126 1,3-Dichlorobenzene | 146 | 11.695 | 11.695 | 0.0 | 97 | 2130391 | 28.7 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 92 | 2038075 | 28.1 | |
| 129 n-Butylbenzene | 91 | 11.995 | 11.996 | -0.001 | 97 | 5359403 | 29.0 | |
| 130 1,2-Dichlorobenzene | 146 | 12.124 | 12.124 | 0.0 | 96 | 1718263 | 29.1 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.854 | 0.007 | 72 | 67504 | 30.2 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.819 | 13.819 | 0.0 | 90 | 1202643 | 29.3 | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 96 | 849240 | 28.2 | |
| 134 Naphthalene | 128 | 14.176 | 14.176 | 0.0 | 97 | 1641014 | 31.4 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.498 | 14.498 | 0.0 | 94 | 938621 | 29.0 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 63.6 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 56.7 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 87.7 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 124.2 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 87.7 | |
| S 138 Total BTEX | 1 | | | | 0 | | 172.9 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 56.7 | |

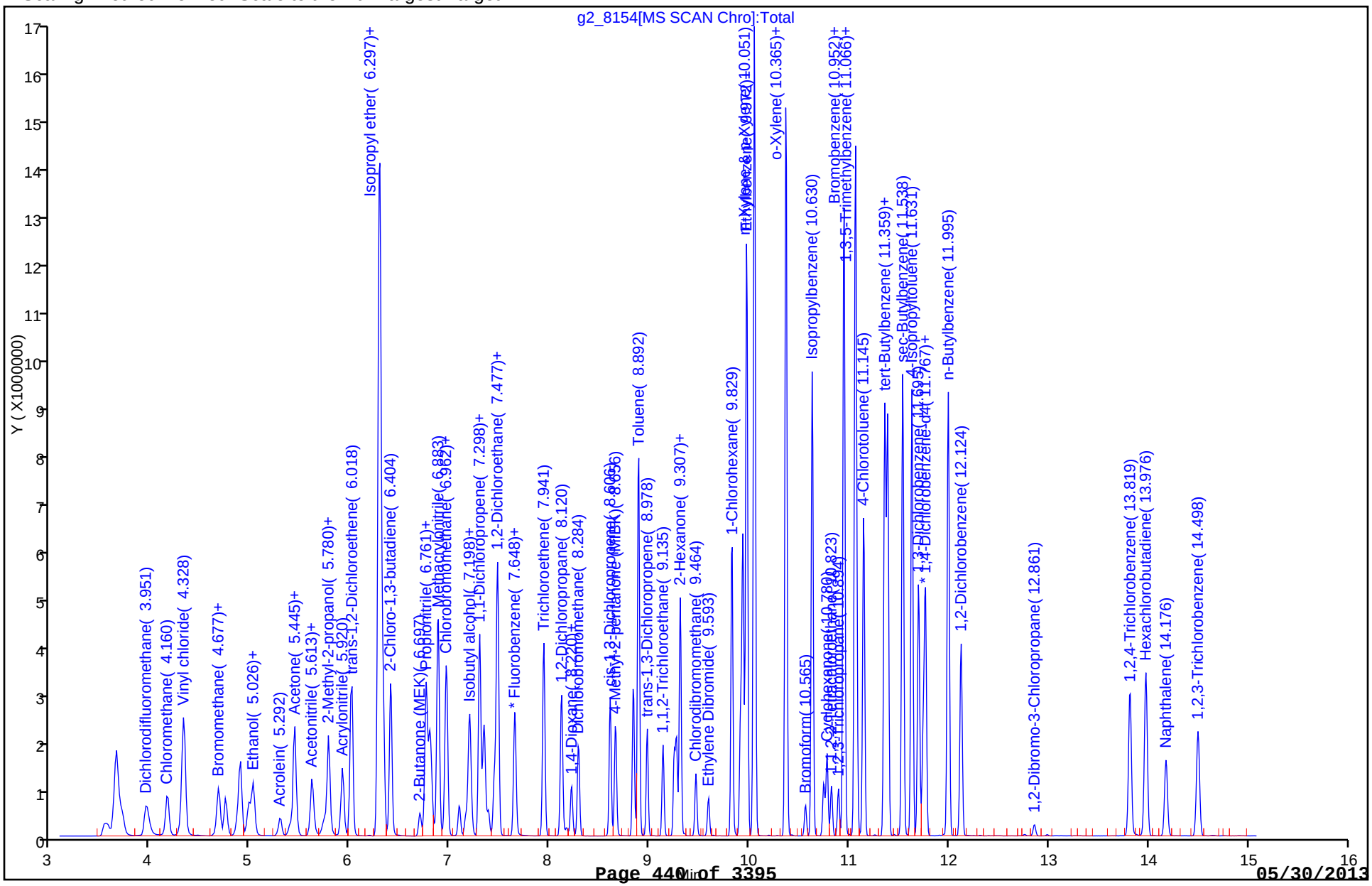
Report Date: 11-May-2013 07:35:25 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8154.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 09:51:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 14 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Lims ID: | ic | Client ID: | |
| Inject. Date: | 10-May-2013 10:10:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | STD060 | | |
| Misc. Info.: | | | |
| Operator: | ILCZYSZYND | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 18 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 15 |
| Sublist: | chrom-AQ_VMSG2_8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m | | |
| Last Update: | 11-May-2013 07:35:24 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 10-May-2013 10:33:55 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 98 | 1998407 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 46 | 404544 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 96 | 557623 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 88 | 2757540 | 55.0 | |
| 27 Chloromethane | 50 | 4.161 | 4.146 | 0.015 | 88 | 2760205 | 54.1 | |
| 28 Vinyl chloride | 62 | 4.314 | 4.300 | 0.014 | 82 | 2874924 | 53.2 | |
| 31 Bromomethane | 94 | 4.677 | 4.663 | 0.014 | 87 | 2078814 | 56.3 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 1937246 | 54.8 | |
| 34 Ethanol | 45 | 4.999 | 4.998 | 0.001 | 94 | 327599 | 3120.0 | |
| 35 Trichlorofluoromethane | 101 | 5.026 | 5.012 | 0.014 | 88 | 3611872 | 54.6 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 97 | 950837 | 623.4 | |
| 42 Acetone | 43 | 5.390 | 5.389 | 0.001 | 97 | 864781 | 230.9 | |
| 45 1,1-Dichloroethene | 96 | 5.432 | 5.431 | 0.001 | 89 | 2275863 | 56.7 | |
| 46 Acetonitrile | 41 | 5.613 | 5.613 | 0.0 | 100 | 733402 | 575.2 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 97 | 3105686 | 56.9 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.725 | 0.014 | 97 | 1233155 | 1327.6 | |
| 52 Methylene Chloride | 84 | 5.781 | 5.780 | 0.001 | 89 | 2175650 | 59.3 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 99 | 2731662 | 594.2 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.004 | 6.004 | 0.0 | 95 | 3064774 | 56.3 | |
| 58 Isopropyl ether | 87 | 6.290 | 6.290 | 0.0 | 86 | 8345370 | 286.5 | |
| 59 1,1-Dichloroethane | 63 | 6.326 | 6.325 | 0.001 | 81 | 4490703 | 55.9 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.397 | 0.007 | 87 | 3953380 | 57.4 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.690 | 0.007 | 100 | 1281791 | 240.0 | |
| 64 Propionitrile | 54 | 6.747 | 6.740 | 0.007 | 68 | 974514 | 606.3 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.762 | 6.754 | 0.008 | 65 | 2561015 | 57.7 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.790 | 0.007 | 87 | 3588662 | 58.2 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 92 | 4752142 | 574.2 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 80 | 839232 | 58.1 | |
| 70 Chloroform | 83 | 6.962 | 6.962 | 0.0 | 80 | 3886949 | 55.7 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.155 | 7.148 | 0.007 | 87 | 443872 | 1234.1 | |
| 73 1,1,1-Trichloroethane | 97 | 7.191 | 7.191 | 0.0 | 92 | 3699781 | 57.1 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.291 | 0.007 | 95 | 3982615 | 56.6 | |
| 76 Carbon tetrachloride | 117 | 7.341 | 7.334 | 0.007 | 69 | 3204229 | 59.0 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 90 | 1967726 | 55.4 | |
| 79 Benzene | 78 | 7.477 | 7.469 | 0.008 | 97 | 9639228 | 53.8 | |
| 80 n-Butanol | 56 | 7.655 | 7.655 | 0.0 | 89 | 585950 | 1916.0 | |
| 81 Trichloroethene | 95 | 7.934 | 7.934 | 0.0 | 95 | 2638311 | 57.8 | |
| 84 1,2-Dichloropropane | 63 | 8.113 | 8.113 | 0.0 | 95 | 2201306 | 58.1 | |
| 86 1,4-Dioxane | 88 | 8.163 | 8.170 | -0.007 | 94 | 312821 | 3003.1 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 87 | 768043 | 58.6 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 94 | 2387706 | 61.4 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 92 | 2960402 | 63.9 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.657 | 8.656 | 0.001 | 97 | 3005281 | 246.5 | |
| 93 Toluene | 91 | 8.892 | 8.885 | 0.007 | 99 | 9964093 | 53.6 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 90 | 2140834 | 63.2 | |
| 96 1,1,2-Trichloroethane | 97 | 9.136 | 9.135 | 0.001 | 85 | 1061302 | 57.8 | |
| 97 2-Hexanone | 43 | 9.243 | 9.243 | 0.0 | 93 | 2007047 | 251.3 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 91 | 2028503 | 56.6 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 91 | 2030904 | 58.3 | |
| 100 Chlorodibromomethane | 129 | 9.465 | 9.464 | 0.0 | 89 | 1263359 | 66.4 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 99 | 986607 | 59.6 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.822 | 0.007 | 99 | 3643483 | 57.0 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 94 | 5958204 | 54.9 | |
| 106 Ethylbenzene | 106 | 9.972 | 9.972 | 0.0 | 98 | 3894036 | 58.2 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 88 | 1992183 | 64.6 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 95 | 9091030 | 112.8 | |
| 109 Styrene | 104 | 10.365 | 10.365 | 0.0 | 87 | 6703456 | 60.1 | |
| 108 o-Xylene | 106 | 10.365 | 10.365 | 0.0 | 86 | 4444809 | 58.9 | |
| 110 Bromoform | 173 | 10.566 | 10.565 | 0.001 | 95 | 590043 | 69.1 | |
| 111 Isopropylbenzene | 105 | 10.630 | 10.630 | 0.0 | 97 | 11455027 | 54.1 | |
| 113 Cyclohexanone | 55 | 10.744 | 10.744 | 0.0 | 88 | 1014222 | 2564.1 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 84 | 1077313 | 57.7 | |
| 116 1,2,3-Trichloropropane | 110 | 10.895 | 10.894 | 0.001 | 84 | 277572 | 57.9 | |
| 117 Bromobenzene | 156 | 10.945 | 10.944 | 0.001 | 96 | 2238538 | 59.3 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 95 | 3531593 | 58.1 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.059 | 11.059 | 0.0 | 95 | 9551097 | 56.1 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 96 | 2838626 | 58.4 | |
| 121 4-Chlorotoluene | 126 | 11.145 | 11.145 | 0.0 | 98 | 2672272 | 57.7 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 88 | 9864715 | 58.2 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 97 | 9278168 | 55.6 | |
| 124 sec-Butylbenzene | 134 | 11.538 | 11.538 | 0.0 | 95 | 2892763 | 60.1 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 93 | 10610578 | 55.4 | |
| 126 1,3-Dichlorobenzene | 146 | 11.695 | 11.695 | 0.0 | 97 | 4453994 | 56.2 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 93 | 4274133 | 55.3 | |
| 129 n-Butylbenzene | 91 | 11.996 | 11.996 | 0.0 | 96 | 10598511 | 53.7 | |
| 130 1,2-Dichlorobenzene | 146 | 12.124 | 12.124 | 0.0 | 96 | 3604974 | 57.1 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.854 | 0.007 | 80 | 157938 | 65.8 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.819 | 13.819 | 0.0 | 90 | 2616449 | 59.7 | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 96 | 1818022 | 56.5 | |
| 134 Naphthalene | 128 | 14.177 | 14.176 | 0.0 | 97 | 3605216 | 64.5 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.498 | 14.498 | 0.0 | 92 | 2053164 | 59.5 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 127.1 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 114.0 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 171.7 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 252.6 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 171.7 | |
| S 138 Total BTEX | 1 | | | | 0 | | 337.3 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 114.0 | |

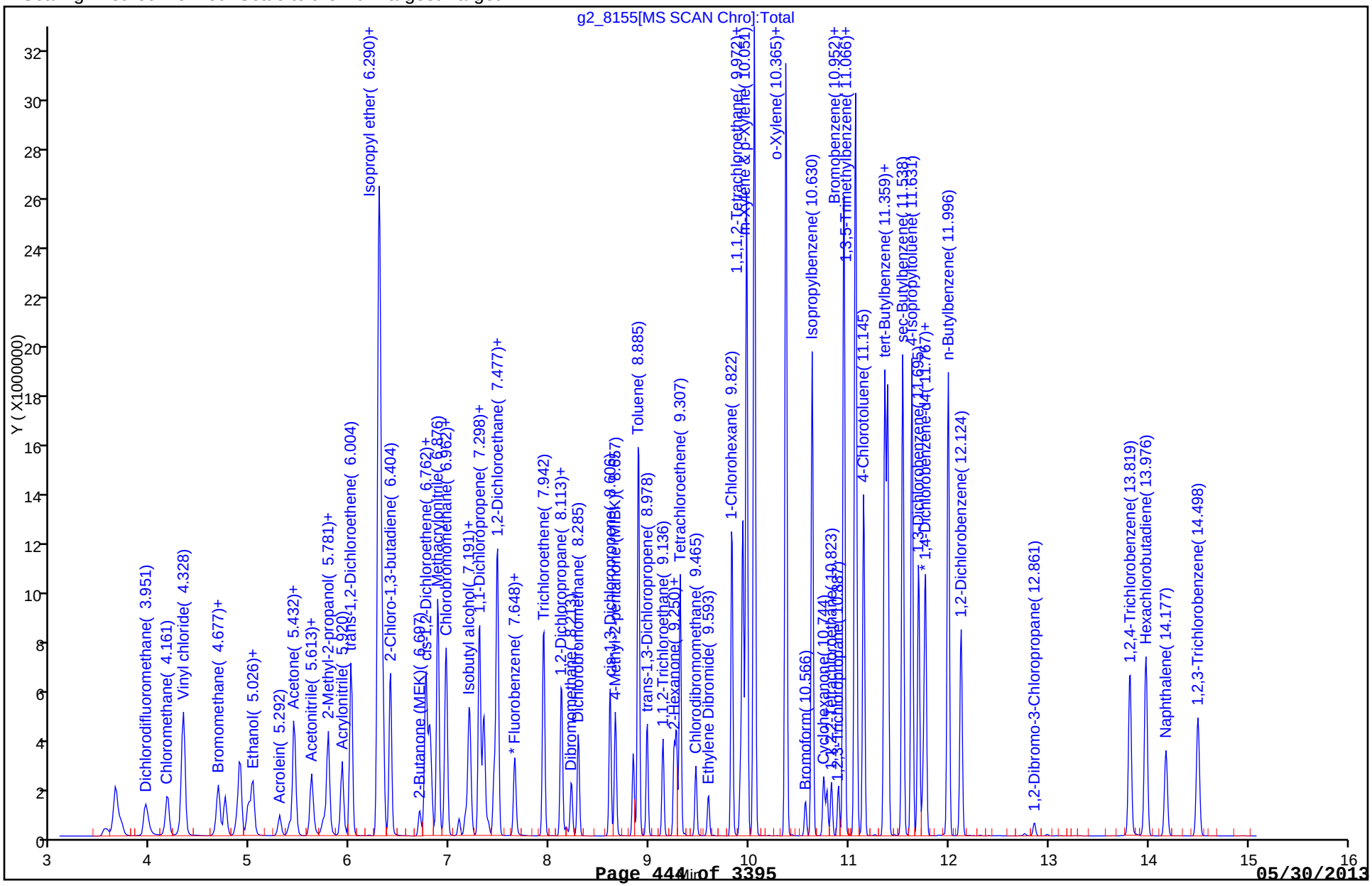
Report Date: 11-May-2013 07:35:24 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 10:10:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 15 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 172220

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2013 21:57 Calibration End Date: 05/01/2013 23:48 Calibration ID: 13831

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 280-172220/35 | Z3802.D |
| Level 2 | STD2 280-172220/36 | Z3803.D |
| Level 3 | STD5 280-172220/37 | Z3804.D |
| Level 4 | ICIS 280-172220/38 | Z3805.D |
| Level 5 | STD30 280-172220/39 | Z3806.D |
| Level 6 | STD60 280-172220/40 | Z3807.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 1.0457<br>1.0175 | 1.0490 | 1.0377 | 1.0656 | 1.0837 | Ave | | 1.0499 | | | | 2.2 | | 15.0 | | | |
| Ethyl ether | 0.2016<br>0.2523 | 0.2660 | 0.2719 | 0.2650 | 0.2647 | Ave | | 0.2536 | | | | 10.0 | | 15.0 | | | |
| Isopropyl alcohol | 0.0081<br>0.0078 | 0.0086 | 0.0084 | 0.0085 | 0.0083 | Ave | | 0.0083 | | | | 3.6 | | 15.0 | | | |
| Propene oxide | 0.0243<br>0.0248 | 0.0264 | 0.0258 | 0.0261 | 0.0260 | Ave | | 0.0256 | | | | 3.3 | | 15.0 | | | |
| 2,2-Dichloro-1,1,1-trifluoroethane | 1.1493<br>1.1253 | 1.1492 | 1.1213 | 1.1426 | 1.1771 | Ave | | 1.1441 | | | | 1.8 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5776<br>0.6126 | 0.5955 | 0.5903 | 0.6024 | 0.6285 | Ave | | 0.6012 | | | | 3.0 | | 15.0 | | | |
| Carbon disulfide | 1.5050<br>1.5682 | 1.5604 | 1.5536 | 1.5437 | 1.6295 | Ave | | 1.5601 | | | | 2.6 | | 15.0 | | | |
| Allyl chloride | 0.6085<br>0.5974 | 0.6132 | 0.6168 | 0.5861 | 0.6222 | Ave | | 0.6074 | | | | 2.2 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.6552<br>0.6807 | 0.6175 | 0.6983 | 0.6976 | 0.7067 | Ave | | 0.6760 | | | | 5.0 | | 15.0 | | | |
| Hexane | 3.0449<br>3.2058 | 2.8969 | 3.1723 | 2.8972 | 3.3595 | Ave | | 3.0961 | | | | 5.9 | | 15.0 | | | |
| Tert-butyl ethyl ether | 0.9553<br>1.0241 | 1.0092 | 0.9976 | 1.0167 | 1.0350 | Ave | | 1.0063 | | | | 2.8 | | 15.0 | | | |
| 2-Butanol | 0.0076<br>0.0090 | 0.0084 | 0.0084 | 0.0089 | 0.0089 | Ave | | 0.0085 | | | | 6.3 | | 15.0 | | | |
| Tetrahydrofuran | 0.0324<br>0.0297 | 0.0383 | 0.0314 | 0.0315 | 0.0305 | Ave | | 0.0323 | | | | 9.5 | | 15.0 | | | |
| Cyclohexane | 0.6357<br>0.6414 | 0.6560 | 0.6413 | 0.6376 | 0.6611 | Ave | | 0.6455 | | | | 1.6 | | 15.0 | | | |
| Tert-amyl methyl ether | 0.7236<br>0.7900 | 0.7782 | 0.7869 | 0.7947 | 0.8062 | Ave | | 0.7799 | | | | 3.7 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 172220

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2013 21:57 Calibration End Date: 05/01/2013 23:48 Calibration ID: 13831

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.6025<br>0.5708 | 0.6074 | 0.5577 | 0.5714 | 0.5894 | Ave | | 0.5832 | | | | 3.4 | | 15.0 | | | |
| 2-Pentanone | 0.1239<br>0.1120 | 0.1254 | 0.1192 | 0.1232 | 0.1201 | Ave | | 0.1206 | | | | 4.0 | | 15.0 | | | |
| Methyl methacrylate | 0.0501<br>0.0579 | 0.0580 | 0.0573 | 0.0593 | 0.0588 | Ave | | 0.0569 | | | | 6.0 | | 15.0 | | | |
| 2-Nitropropane | 0.0505<br>0.0310 | 0.0294 | 0.0288 | 0.0294 | 0.0287 | Lin1 | 0.0106 | 0.0297 | | | | | | | 0.9950 | | 0.9900 |
| 2-Chloroethyl vinyl ether | 0.1008<br>0.1183 | 0.1158 | 0.1172 | 0.1169 | 0.1196 | Ave | | 0.1148 | | | | 6.1 | | 15.0 | | | |
| Ethyl methacrylate | 1.2957<br>1.3621 | 1.3857 | 1.3819 | 1.2584 | 1.4062 | Ave | | 1.3483 | | | | 4.3 | | 15.0 | | | |
| cis-1,4-Dichloro-2-butene | 0.0572<br>0.0673 | 0.0623 | 0.0660 | 0.0695 | 0.0688 | Ave | | 0.0652 | | | | 7.2 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.0781<br>0.0869 | 0.0809 | 0.0846 | 0.0881 | 0.0889 | Ave | | 0.0846 | | | | 5.1 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.6778<br>0.6549 | 0.6764 | 0.6864 | 0.6691 | 0.6685 | Ave | | 0.6722 | | | | 1.6 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.2764<br>0.2611 | 0.2818 | 0.2803 | 0.2696 | 0.2702 | Ave | | 0.2732 | | | | 2.8 | | 15.0 | | | |
| Toluene-d8 (Surr) | 6.3067<br>5.8168 | 6.1839 | 6.1529 | 5.4146 | 6.0918 | Ave | | 5.9944 | | | | 5.5 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 2.0369<br>1.7257 | 1.8063 | 1.8900 | 1.8445 | 1.8143 | Ave | | 1.8529 | | | | 5.7 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 172220

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2013 21:57 Calibration End Date: 05/01/2013 23:48 Calibration ID: 13831

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 280-172220/35 | Z3802.D |
| Level 2 | STD2 280-172220/36 | Z3803.D |
| Level 3 | STD5 280-172220/37 | Z3804.D |
| Level 4 | ICIS 280-172220/38 | Z3805.D |
| Level 5 | STD30 280-172220/39 | Z3806.D |
| Level 6 | STD60 280-172220/40 | Z3807.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 99358<br>5656562 | 198127 | 487283 | 1003108 | 2975731 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Ethyl ether | FB | Ave | 19158<br>1402861 | 50235 | 127657 | 249487 | 726833 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Isopropyl alcohol | FB | Ave | 15474<br>864672 | 32592 | 78680 | 159143 | 456111 | 20.0<br>1200 | 40.0 | 100 | 200 | 600 |
| Propene oxide | FB | Ave | 115347<br>6881532 | 249194 | 605739 | 1229984 | 3571600 | 50.0<br>3000 | 100 | 250 | 500 | 1500 |
| 2,2-Dichloro-1,1,1-trifluoroethane | FB | Ave | 109207<br>6255588 | 217043 | 526539 | 1075577 | 3232273 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | FB | Ave | 54886<br>3405521 | 112469 | 277197 | 567094 | 1725929 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Carbon disulfide | FB | Ave | 143007<br>8717967 | 294714 | 729550 | 1453157 | 4474511 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Allyl chloride | FB | Ave | 57820<br>3320990 | 115820 | 289652 | 551684 | 1708448 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Methyl tert-butyl ether | FB | Ave | 62255<br>3784348 | 116623 | 327901 | 656735 | 1940525 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Hexane | CBZ | Ave | 64221<br>3942749 | 123012 | 331892 | 677261 | 2042666 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Tert-butyl ethyl ether | FB | Ave | 453869<br>28465668 | 953056 | 2342362 | 4785355 | 14209848 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| 2-Butanol | FB | Ave | 26246<br>1817561 | 57589 | 143817 | 306268 | 890441 | 36.4<br>2185 | 72.8 | 182 | 364 | 1093 |
| Tetrahydrofuran | FB | Ave | 6164<br>329675 | 14455 | 29505 | 59212 | 167674 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Cyclohexane | FB | Ave | 60406<br>3565754 | 123890 | 301154 | 600255 | 1815390 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Tert-amyl methyl ether | FB | Ave | 343776<br>21959983 | 734856 | 1847507 | 3740510 | 11068265 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| Methylcyclohexane | FB | Ave | 57251<br>3172950 | 114728 | 261908 | 537874 | 1618367 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 172220

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2013 21:57 Calibration End Date: 05/01/2013 23:48 Calibration ID: 13831

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 2-Pentanone | FB | Ave | 47104<br>2490216 | 94719 | 223903 | 463869 | 1318882 | 4.00<br>240 | 8.00 | 20.0 | 40.0 | 120 |
| Methyl methacrylate | FB | Ave | 9523<br>644190 | 21925 | 53831 | 111693 | 322991 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| 2-Nitropropane | FB | Lin1 | 4802<br>172614 | 5551 | 13512 | 27722 | 78839 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 9581<br>657656 | 21870 | 55056 | 110026 | 328539 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Ethyl methacrylate | CBZ | Ave | 54656<br>3350522 | 117687 | 289168 | 588316 | 1709968 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| cis-1,4-Dichloro-2-butene | DCB | Ave | 2193<br>152684 | 5149 | 12540 | 26462 | 77014 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 2993<br>197272 | 6683 | 16066 | 33514 | 99547 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 64409<br>3640654 | 127744 | 322302 | 629840 | 1835779 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 26264<br>1451791 | 53222 | 131633 | 253779 | 741979 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 133014<br>7153947 | 262591 | 643740 | 1265726 | 3703975 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 4-Bromofluorobenzene (Surr) | DCB | Ave | 78103<br>3917799 | 149268 | 359096 | 701968 | 2030572 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3802.D | | |
| Lims ID: | std1 | Client ID: | |
| Inject. Date: | 01-May-2013 21:57:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | std1 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 5 |
| Lims Batch ID: | 172220 | Lims Sample ID: | 35 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\AQ_VMSZ_8260.m | | |
| Last Update: | 02-May-2013 00:19:12 | Calib Date: | 01-May-2013 23:48:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 01-May-2013 23:11:50 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.839 | 5.840 | -0.001 | 99 | 1187745 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.366 | -0.001 | 87 | 263638 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.438 | 14.439 | -0.001 | 95 | 479305 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.021 | 5.022 | -0.001 | 76 | 64409 | 1.01 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.473 | 5.475 | -0.002 | 72 | 26264 | 1.01 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.050 | 8.051 | -0.001 | 87 | 133014 | 1.05 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.401 | 12.403 | -0.002 | 85 | 78103 | 1.10 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.818 | 1.837 | -0.019 | 85 | 77731 | 0.8805 | |
| 29 Ethylene oxide | 43 | 2.114 | 2.132 | -0.018 | 99 | 76302 | 117.9 | |
| 32 Dichlorofluoromethane | 67 | 2.340 | 2.359 | -0.019 | 97 | 99358 | 1.00 | |
| 37 Isopropyl alcohol | 45 | 2.514 | 2.515 | -0.001 | 25 | 15474 | 19.7 | |
| 36 Ethyl ether | 59 | 2.514 | 2.515 | -0.001 | 63 | 19158 | 0.7951 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.566 | 2.568 | -0.002 | 95 | 67871 | 0.99 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.601 | 2.602 | -0.001 | 77 | 109207 | 1.00 | |
| 40 Propene oxide | 58 | 2.601 | 2.602 | -0.001 | 95 | 115347 | 47.5 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.740 | 2.759 | -0.019 | 87 | 54886 | 0.9609 | |
| 46 Carbon disulfide | 76 | 2.932 | 2.933 | -0.001 | 99 | 143007 | 0.9647 | |
| 48 3-Chloro-1-propene | 41 | 3.036 | 3.038 | -0.002 | 86 | 57820 | 1.00 | |
| 54 Methyl tert-butyl ether | 73 | 3.367 | 3.386 | -0.019 | 88 | 62255 | 0.9692 | |
| 55 Hexane | 57 | 3.559 | 3.560 | -0.001 | 93 | 64221 | 0.9835 | |
| 60 Tert-butyl ethyl ether | 59 | 4.203 | 4.204 | -0.001 | 98 | 453869 | 4.75 | |
| 67 sec-Butyl Alcohol | 45 | 4.673 | 4.674 | -0.001 | 87 | 26246 | 32.4 | |
| 70 Tetrahydrofuran | 42 | 4.760 | 4.761 | -0.001 | 80 | 6164 | 2.01 | |
| 72 Cyclohexane | 56 | 5.003 | 5.022 | -0.019 | 83 | 60406 | 0.9848 | |
| 79 Tert-amyl methyl ether | 73 | 5.578 | 5.579 | -0.001 | 98 | 343776 | 4.64 | |
| 84 Methylcyclohexane | 55 | 6.483 | 6.484 | -0.001 | 84 | 57251 | 1.03 | |
| 82 2-Pentanone | 43 | 6.640 | 6.641 | -0.001 | 84 | 47104 | 4.11 | |
| 86 Methyl methacrylate | 100 | 6.831 | 6.815 | 0.016 | 76 | 9523 | 1.76 | |
| 89 2-Nitropropane | 41 | 7.510 | 7.494 | 0.016 | 48 | 4802 | 1.34 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.527 | 7.529 | -0.002 | 69 | 9581 | 0.8785 | |
| 95 Ethyl methacrylate | 69 | 8.711 | 8.712 | -0.001 | 83 | 54656 | 1.92 | |
| 101 Tetrahydrothiophene | 60 | 9.390 | 9.391 | -0.001 | 1 | 3623 | 0.9304 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.332 | 12.350 | -0.018 | 0 | 2193 | 0.8774 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.871 | 12.873 | -0.002 | 28 | 2993 | 0.9230 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.542 | 14.544 | -0.002 | 89 | 120711 | 0.9879 | |

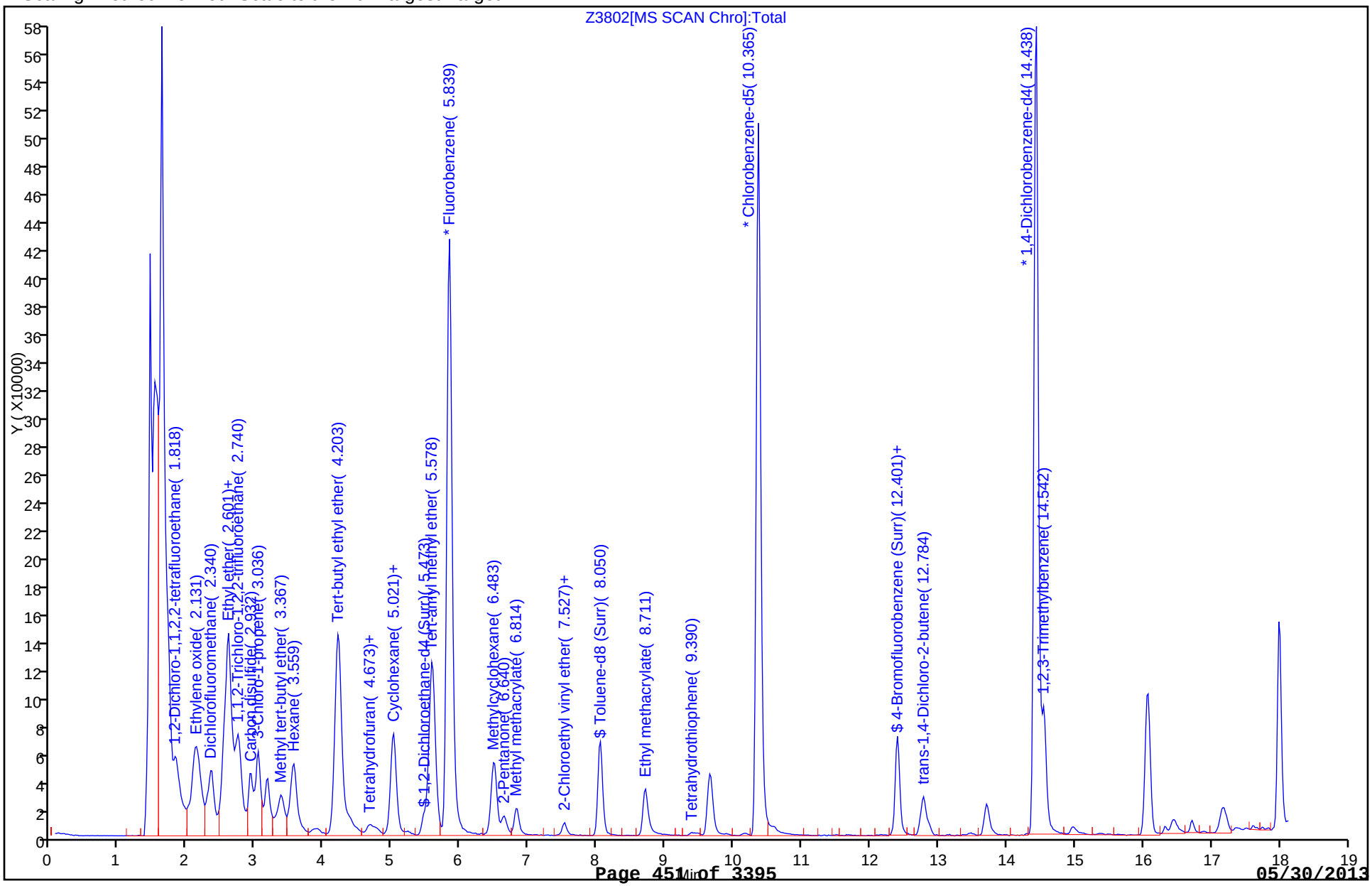
Report Date: 02-May-2013 00:19:13 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3802.D

| | | | |
|---|---|---|---|
| Injection Date: | 01-May-2013 21:57:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 172220 | Lims Sample ID: | 35 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3803.D | | |
| Lims ID: | std2 | Client ID: | |
| Inject. Date: | 01-May-2013 22:19:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | std2 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 6 |
| Lims Batch ID: | 172220 | Lims Sample ID: | 36 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\AQ_VMSZ_8260.m | | |
| Last Update: | 02-May-2013 00:19:13 | Calib Date: | 01-May-2013 23:48:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 01-May-2013 23:12:24 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.825 | 5.840 | -0.015 | 99 | 1180436 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.368 | 10.366 | 0.002 | 86 | 265399 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.441 | 14.439 | 0.002 | 95 | 516484 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.007 | 5.022 | -0.015 | 77 | 127744 | 2.01 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.459 | 5.475 | -0.016 | 78 | 53222 | 2.06 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.053 | 8.051 | 0.002 | 90 | 262591 | 2.06 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.405 | 12.403 | 0.002 | 86 | 149268 | 1.95 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.821 | 1.837 | -0.016 | 91 | 166327 | 1.90 | |
| 29 Ethylene oxide | 43 | 2.117 | 2.132 | -0.015 | 99 | 171881 | 267.2 | |
| 32 Dichlorofluoromethane | 67 | 2.344 | 2.359 | -0.015 | 97 | 198127 | 2.00 | |
| 37 Isopropyl alcohol | 45 | 2.500 | 2.515 | -0.015 | 68 | 32592 | 41.7 | |
| 36 Ethyl ether | 59 | 2.500 | 2.515 | -0.015 | 90 | 50235 | 2.10 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.552 | 2.568 | -0.016 | 97 | 136703 | 2.02 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.605 | 2.602 | 0.003 | 76 | 217043 | 2.01 | |
| 40 Propene oxide | 58 | 2.587 | 2.602 | -0.015 | 95 | 249194 | 103.2 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.744 | 2.759 | -0.015 | 90 | 112469 | 1.98 | |
| 46 Carbon disulfide | 76 | 2.918 | 2.933 | -0.015 | 99 | 294714 | 2.00 | |
| 48 3-Chloro-1-propene | 41 | 3.022 | 3.038 | -0.016 | 87 | 115820 | 2.02 | |
| 54 Methyl tert-butyl ether | 73 | 3.371 | 3.386 | -0.015 | 86 | 116623 | 1.83 | |
| 55 Hexane | 57 | 3.545 | 3.560 | -0.015 | 90 | 123012 | 1.87 | |
| 60 Tert-butyl ethyl ether | 59 | 4.206 | 4.204 | 0.002 | 98 | 953056 | 10.0 | |
| 67 sec-Butyl Alcohol | 45 | 4.676 | 4.674 | 0.002 | 85 | 57589 | 71.5 | |
| 70 Tetrahydrofuran | 42 | 4.763 | 4.761 | 0.002 | 82 | 14455 | 4.74 | |
| 72 Cyclohexane | 56 | 5.007 | 5.022 | -0.015 | 87 | 123890 | 2.03 | |
| 79 Tert-amyl methyl ether | 73 | 5.581 | 5.579 | 0.002 | 97 | 734856 | 9.98 | |
| 84 Methylcyclohexane | 55 | 6.486 | 6.484 | 0.002 | 88 | 114728 | 2.08 | |
| 82 2-Pentanone | 43 | 6.626 | 6.641 | -0.015 | 96 | 94719 | 8.31 | |
| 86 Methyl methacrylate | 100 | 6.817 | 6.815 | 0.002 | 86 | 21925 | 4.08 | |
| 89 2-Nitropropane | 41 | 7.496 | 7.494 | 0.002 | 53 | 5551 | 1.62 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.531 | 7.529 | 0.002 | 76 | 21870 | 2.02 | |
| 95 Ethyl methacrylate | 69 | 8.697 | 8.712 | -0.015 | 87 | 117687 | 4.11 | |
| 101 Tetrahydrothiophene | 60 | 9.376 | 9.391 | -0.015 | 54 | 8157 | 2.08 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.353 | 12.350 | 0.003 | 0 | 5149 | 1.91 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.875 | 12.873 | 0.002 | 64 | 6683 | 1.91 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.546 | 14.544 | 0.002 | 98 | 270450 | 2.05 | |

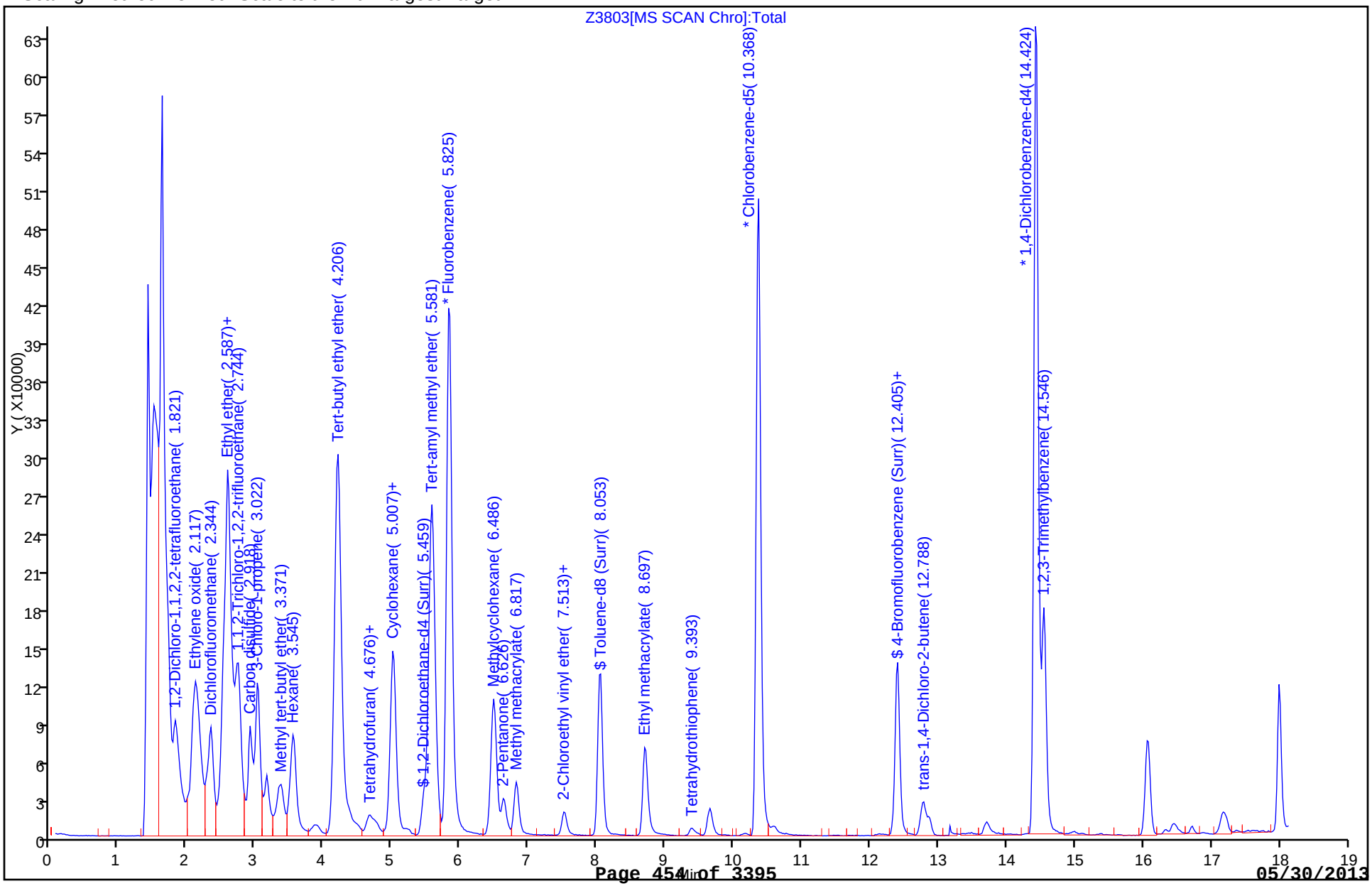
Report Date: 02-May-2013 00:19:13 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3803.D

| | | | |
|---|---|---|---|
| Injection Date: | 01-May-2013 22:19:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 172220 | Lims Sample ID: | 36 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3804.D | | |
| Lims ID: | std5 | Client ID: | |
| Inject. Date: | 01-May-2013 22:42:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | std5 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 7 |
| Lims Batch ID: | 172220 | Lims Sample ID: | 37 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\AQ_VMSZ_8260.m | | |
| Last Update: | 02-May-2013 00:19:14 | Calib Date: | 01-May-2013 23:48:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 01-May-2013 23:21:14 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.840 | 0.001 | 99 | 1173954 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.367 | 10.366 | 0.001 | 87 | 261558 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.440 | 14.439 | 0.001 | 95 | 474984 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.023 | 5.022 | 0.001 | 81 | 322302 | 5.11 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.475 | 5.475 | 0.0 | 91 | 131633 | 5.13 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.052 | 8.051 | 0.001 | 92 | 643740 | 5.13 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.403 | 12.403 | 0.0 | 88 | 359096 | 5.10 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.837 | 1.837 | 0.0 | 92 | 441786 | 5.06 | |
| 29 Ethylene oxide | 43 | 2.133 | 2.132 | 0.001 | 99 | 414864 | 648.5 | |
| 32 Dichlorofluoromethane | 67 | 2.360 | 2.359 | 0.001 | 97 | 487283 | 4.94 | |
| 37 Isopropyl alcohol | 45 | 2.516 | 2.515 | 0.001 | 82 | 78680 | 101.2 | |
| 36 Ethyl ether | 59 | 2.516 | 2.515 | 0.001 | 93 | 127657 | 5.36 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.569 | 2.568 | 0.001 | 98 | 331904 | 4.92 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.621 | 2.602 | 0.019 | 78 | 526539 | 4.90 | |
| 40 Propene oxide | 58 | 2.603 | 2.602 | 0.001 | 96 | 605739 | 252.3 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.760 | 2.759 | 0.001 | 91 | 277197 | 4.91 | |
| 46 Carbon disulfide | 76 | 2.934 | 2.933 | 0.001 | 99 | 729550 | 4.98 | |
| 48 3-Chloro-1-propene | 41 | 3.039 | 3.038 | 0.001 | 84 | 289652 | 5.08 | |
| 54 Methyl tert-butyl ether | 73 | 3.387 | 3.386 | 0.001 | 89 | 327901 | 5.16 | |
| 55 Hexane | 57 | 3.561 | 3.560 | 0.001 | 95 | 331892 | 5.12 | |
| 60 Tert-butyl ethyl ether | 59 | 4.222 | 4.204 | 0.018 | 98 | 2342362 | 24.8 | |
| 67 sec-Butyl Alcohol | 45 | 4.675 | 4.674 | 0.001 | 98 | 143817 | 179.5 | |
| 70 Tetrahydrofuran | 42 | 4.762 | 4.761 | 0.001 | 86 | 29505 | 9.73 | |
| 72 Cyclohexane | 56 | 5.023 | 5.022 | 0.001 | 80 | 301154 | 4.97 | |
| 79 Tert-amyl methyl ether | 73 | 5.597 | 5.579 | 0.018 | 97 | 1847507 | 25.2 | |
| 84 Methylcyclohexane | 55 | 6.503 | 6.484 | 0.018 | 87 | 261908 | 4.78 | |
| 82 2-Pentanone | 43 | 6.642 | 6.641 | 0.001 | 89 | 223903 | 19.8 | |
| 86 Methyl methacrylate | 100 | 6.833 | 6.815 | 0.018 | 87 | 53831 | 10.1 | |
| 89 2-Nitropropane | 41 | 7.495 | 7.494 | 0.001 | 60 | 13512 | 4.49 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.530 | 7.529 | 0.001 | 87 | 55056 | 5.11 | |
| 95 Ethyl methacrylate | 69 | 8.713 | 8.712 | 0.001 | 88 | 289168 | 10.2 | |
| 101 Tetrahydrothiophene | 60 | 9.392 | 9.391 | 0.001 | 69 | 19540 | 5.06 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.351 | 12.350 | 0.001 | 0 | 12540 | 5.06 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.873 | 12.873 | 0.0 | 79 | 16066 | 5.00 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.545 | 14.544 | 0.001 | 91 | 598667 | 4.94 | |

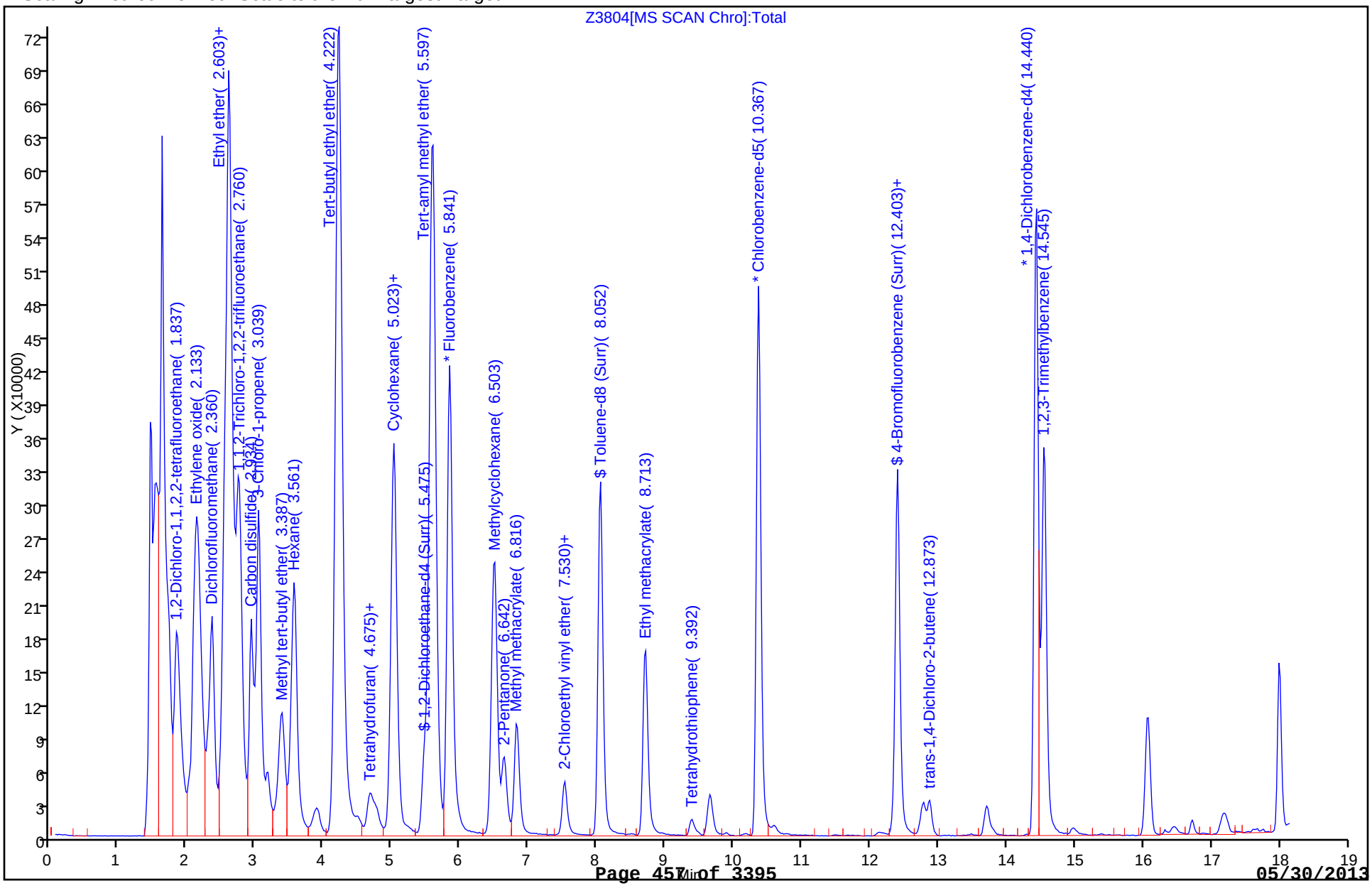
Report Date: 02-May-2013 00:19:14 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3804.D

| | | | |
|---|---|---|---|
| Injection Date: | 01-May-2013 22:42:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 172220 | Lims Sample ID: | 37 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3805.D | | |
| Lims ID: | icis | Client ID: | |
| Inject. Date: | 01-May-2013 23:04:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICIS | Calib Level: | 5 |
| Sample ID: | icis | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 8 |
| Lims Batch ID: | 172220 | Lims Sample ID: | 38 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\AQ_VMSZ_8260.m | | |
| Last Update: | 02-May-2013 00:19:15 | Calib Date: | 01-May-2013 23:48:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 01-May-2013 23:35:42 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.840 | 5.840 | 0.0 | 99 | 1176695 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.366 | 10.366 | 0.0 | 89 | 292202 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.439 | 14.439 | 0.0 | 97 | 475721 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.022 | 5.022 | 0.0 | 82 | 629840 | 9.95 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.475 | 5.475 | 0.0 | 89 | 253779 | 9.87 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.051 | 8.051 | 0.0 | 92 | 1265726 | 9.03 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.403 | 12.403 | 0.0 | 88 | 701968 | 9.95 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.837 | 1.837 | 0.0 | 92 | 898952 | 10.3 | |
| 29 Ethylene oxide | 43 | 2.132 | 2.132 | 0.0 | 99 | 821656 | 1281.4 | |
| 32 Dichlorofluoromethane | 67 | 2.359 | 2.359 | 0.0 | 97 | 1003108 | 10.1 | |
| 37 Isopropyl alcohol | 45 | 2.515 | 2.515 | 0.0 | 82 | 159143 | 204.2 | |
| 36 Ethyl ether | 59 | 2.515 | 2.515 | 0.0 | 92 | 249487 | 10.5 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.568 | 2.568 | 0.0 | 98 | 673762 | 9.97 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.602 | 2.602 | 0.0 | 82 | 1075577 | 9.99 | |
| 40 Propene oxide | 58 | 2.602 | 2.602 | 0.0 | 95 | 1229984 | 511.2 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.759 | 2.759 | 0.0 | 94 | 567094 | 10.0 | |
| 46 Carbon disulfide | 76 | 2.933 | 2.933 | 0.0 | 99 | 1453157 | 9.89 | |
| 48 3-Chloro-1-propene | 41 | 3.038 | 3.038 | 0.0 | 89 | 551684 | 9.65 | |
| 54 Methyl tert-butyl ether | 73 | 3.386 | 3.386 | 0.0 | 90 | 656735 | 10.3 | |
| 55 Hexane | 57 | 3.560 | 3.560 | 0.0 | 95 | 677261 | 9.36 | |
| 60 Tert-butyl ethyl ether | 59 | 4.204 | 4.204 | 0.0 | 98 | 4785355 | 50.5 | |
| 67 sec-Butyl Alcohol | 45 | 4.674 | 4.674 | 0.0 | 99 | 306268 | 381.4 | |
| 70 Tetrahydrofuran | 42 | 4.761 | 4.761 | 0.0 | 85 | 59212 | 19.5 | |
| 72 Cyclohexane | 56 | 5.022 | 5.022 | 0.0 | 81 | 600255 | 9.88 | |
| 79 Tert-amyl methyl ether | 73 | 5.579 | 5.579 | 0.0 | 98 | 3740510 | 50.9 | |
| 84 Methylcyclohexane | 55 | 6.484 | 6.484 | 0.0 | 89 | 537874 | 9.80 | |
| 82 2-Pentanone | 43 | 6.641 | 6.641 | 0.0 | 90 | 463869 | 40.9 | |
| 86 Methyl methacrylate | 100 | 6.815 | 6.815 | 0.0 | 87 | 111693 | 20.8 | |
| 89 2-Nitropropane | 41 | 7.494 | 7.494 | 0.0 | 95 | 27722 | 9.56 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.529 | 7.529 | 0.0 | 94 | 110026 | 10.2 | |
| 95 Ethyl methacrylate | 69 | 8.712 | 8.712 | 0.0 | 88 | 588316 | 18.7 | |
| 101 Tetrahydrothiophene | 60 | 9.391 | 9.391 | 0.0 | 86 | 40582 | 9.40 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.350 | 12.350 | 0.0 | 0 | 26462 | 10.7 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.873 | 12.873 | 0.0 | 86 | 33514 | 10.4 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.544 | 14.544 | 0.0 | 84 | 1221687 | 10.1 | |

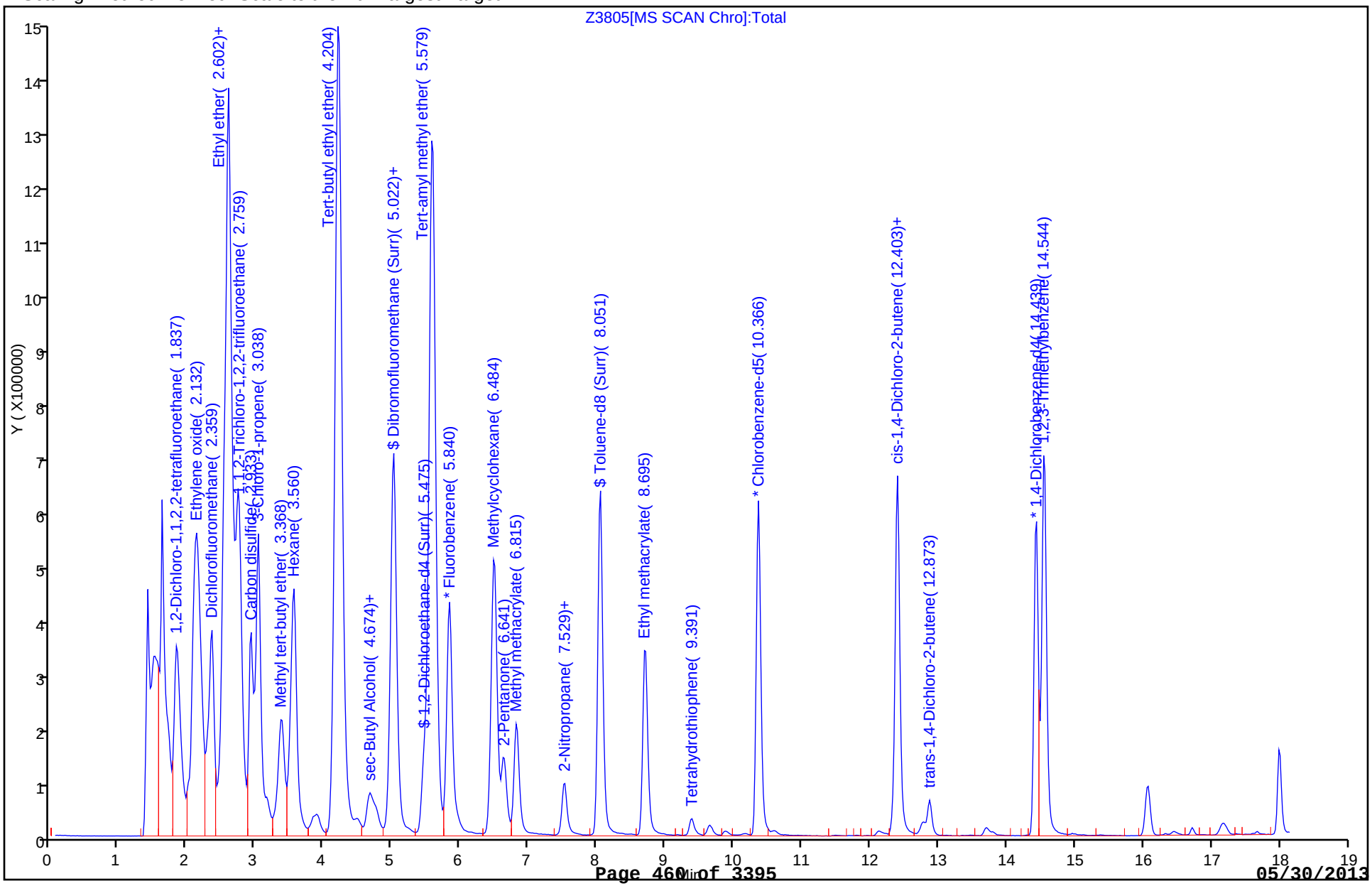
Report Date: 02-May-2013 00:19:15 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3805.D

| | | | |
|---|---|---|---|
| Injection Date: | 01-May-2013 23:04:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 172220 | Lims Sample ID: | 38 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3806.D | | |
| Lims ID: | std30 | Client ID: | |
| Inject. Date: | 01-May-2013 23:26:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | std30 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 9 |
| Lims Batch ID: | 172220 | Lims Sample ID: | 39 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\AQ_VMSZ_8260.m | | |
| Last Update: | 02-May-2013 00:19:15 | Calib Date: | 01-May-2013 23:48:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 02-May-2013 00:06:03 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.840 | 0.001 | 98 | 1144133 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.367 | 10.366 | 0.001 | 87 | 253344 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.440 | 14.439 | 0.001 | 97 | 466344 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.023 | 5.022 | 0.001 | 82 | 1835779 | 29.8 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.458 | 5.475 | -0.017 | 92 | 741979 | 29.7 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.052 | 8.051 | 0.001 | 92 | 3703975 | 30.5 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.404 | 12.403 | 0.001 | 88 | 2030572 | 29.4 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.838 | 1.837 | 0.001 | 93 | 2744279 | 32.3 | |
| 29 Ethylene oxide | 43 | 2.116 | 2.132 | -0.016 | 99 | 2317600 | 3717.2 | |
| 32 Dichlorofluoromethane | 67 | 2.342 | 2.359 | -0.017 | 98 | 2975731 | 31.0 | |
| 37 Isopropyl alcohol | 45 | 2.499 | 2.515 | -0.016 | 73 | 456111 | 601.8 | |
| 36 Ethyl ether | 59 | 2.499 | 2.515 | -0.016 | 91 | 726833 | 31.3 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.551 | 2.568 | -0.017 | 98 | 2024201 | 30.8 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.604 | 2.602 | 0.002 | 78 | 3232273 | 30.9 | |
| 40 Propene oxide | 58 | 2.604 | 2.602 | 0.002 | 96 | 3571600 | 1526.5 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.743 | 2.759 | -0.016 | 91 | 1725929 | 31.4 | |
| 46 Carbon disulfide | 76 | 2.917 | 2.933 | -0.016 | 99 | 4474511 | 31.3 | |
| 48 3-Chloro-1-propene | 41 | 3.021 | 3.038 | -0.017 | 91 | 1708448 | 30.7 | |
| 54 Methyl tert-butyl ether | 73 | 3.369 | 3.386 | -0.017 | 91 | 1940525 | 31.4 | |
| 55 Hexane | 57 | 3.544 | 3.560 | -0.016 | 95 | 2042666 | 32.6 | |
| 60 Tert-butyl ethyl ether | 59 | 4.205 | 4.204 | 0.001 | 98 | 14209848 | 154.3 | |
| 67 sec-Butyl Alcohol | 45 | 4.675 | 4.674 | 0.001 | 99 | 890441 | 1140.4 | |
| 70 Tetrahydrofuran | 42 | 4.762 | 4.761 | 0.001 | 87 | 167674 | 56.7 | |
| 72 Cyclohexane | 56 | 5.006 | 5.022 | -0.016 | 80 | 1815390 | 30.7 | |
| 79 Tert-amyl methyl ether | 73 | 5.580 | 5.579 | 0.001 | 97 | 11068265 | 155.0 | |
| 84 Methylcyclohexane | 55 | 6.485 | 6.484 | 0.001 | 89 | 1618367 | 30.3 | |
| 82 2-Pentanone | 43 | 6.642 | 6.641 | 0.001 | 98 | 1318882 | 119.5 | |
| 86 Methyl methacrylate | 100 | 6.816 | 6.815 | 0.001 | 87 | 322991 | 62.0 | |
| 89 2-Nitropropane | 41 | 7.495 | 7.494 | 0.001 | 97 | 78839 | 28.6 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.530 | 7.529 | 0.001 | 94 | 328539 | 31.3 | |
| 95 Ethyl methacrylate | 69 | 8.713 | 8.712 | 0.001 | 88 | 1709968 | 62.6 | |
| 101 Tetrahydrothiophene | 60 | 9.375 | 9.391 | -0.016 | 91 | 117538 | 31.4 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.351 | 12.350 | 0.001 | 0 | 77014 | 31.7 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.874 | 12.873 | 0.001 | 91 | 99547 | 31.6 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.545 | 14.544 | 0.001 | 97 | 3638653 | 30.6 | |

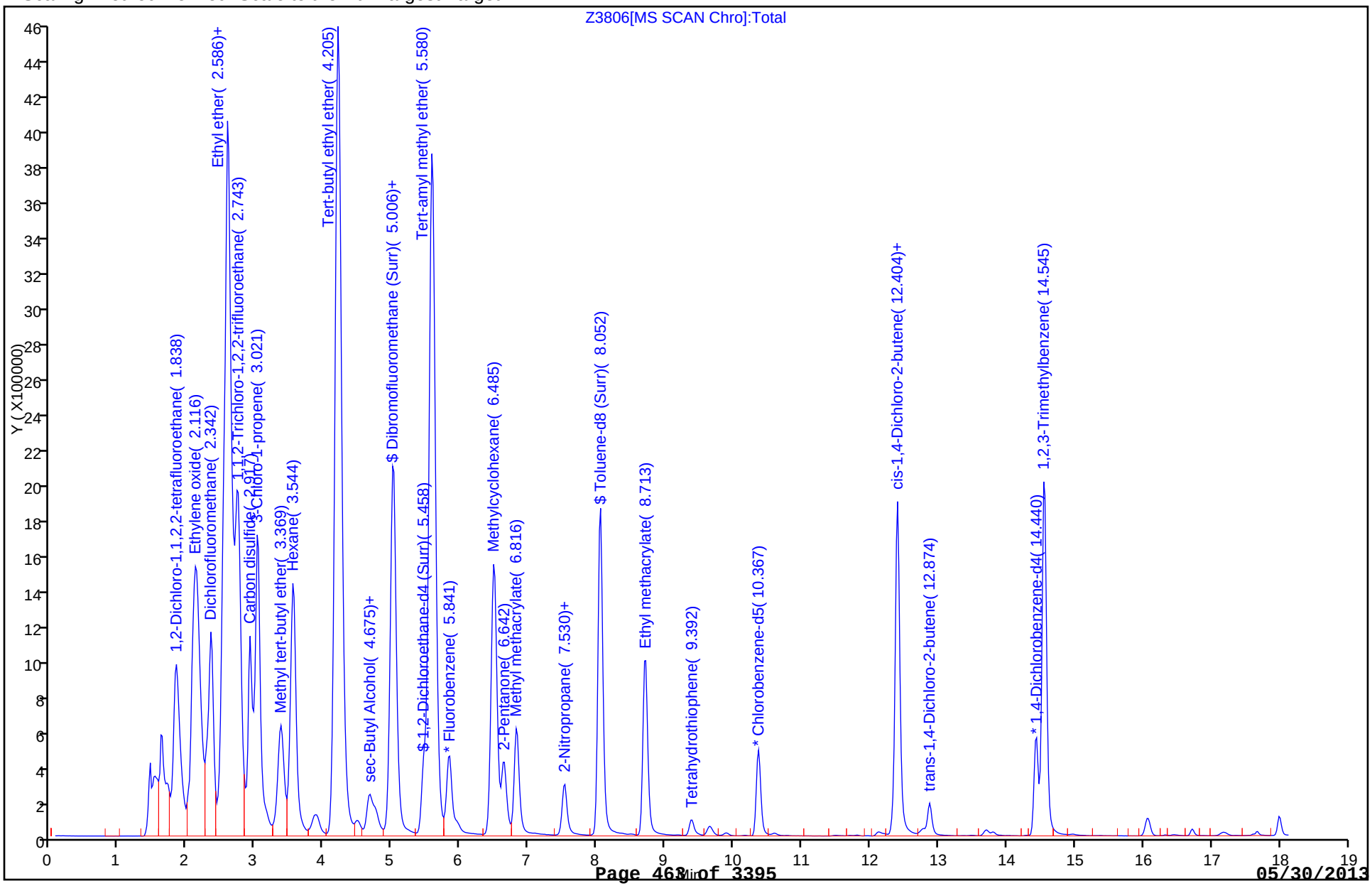
Report Date: 02-May-2013 00:19:16 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3806.D

| | | | |
|---|---|---|---|
| Injection Date: | 01-May-2013 23:26:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 172220 | Lims Sample ID: | 39 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Lims ID: | std60 | Client ID: | |
| Inject. Date: | 01-May-2013 23:48:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | std60 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 10 |
| Lims Batch ID: | 172220 | Lims Sample ID: | 40 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\AQ_VMSZ_8260.m | | |
| Last Update: | 02-May-2013 00:32:37 | Calib Date: | 01-May-2013 23:48:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 02-May-2013 00:10:51 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.840 | 5.840 | 0.0 | 98 | 1158179 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.366 | -0.001 | 86 | 256224 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.439 | 14.439 | 0.0 | 95 | 472977 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.004 | 5.022 | -0.018 | 82 | 3640654 | 58.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.457 | 5.475 | -0.018 | 92 | 1451791 | 57.3 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.050 | 8.051 | -0.001 | 92 | 7153947 | 58.2 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.402 | 12.403 | -0.001 | 89 | 3917799 | 55.9 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.836 | 1.837 | -0.001 | 93 | 5451248 | 63.3 | |
| 29 Ethylene oxide | 43 | 2.115 | 2.132 | -0.017 | 99 | 4421385 | 7005.5 | |
| 32 Dichlorofluoromethane | 67 | 2.341 | 2.359 | -0.018 | 98 | 5656562 | 58.2 | |
| 37 Isopropyl alcohol | 45 | 2.497 | 2.515 | -0.018 | 70 | 864672 | 1127.0 | |
| 36 Ethyl ether | 59 | 2.497 | 2.515 | -0.018 | 82 | 1402861 | 59.7 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.550 | 2.568 | -0.018 | 98 | 3947246 | 59.3 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.602 | 2.602 | 0.0 | 80 | 6255588 | 59.0 | |
| 40 Propene oxide | 58 | 2.585 | 2.602 | -0.018 | 96 | 6881532 | 2905.6 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.741 | 2.759 | -0.018 | 94 | 3405521 | 61.1 | |
| 46 Carbon disulfide | 76 | 2.915 | 2.933 | -0.018 | 99 | 8717967 | 60.3 | |
| 48 3-Chloro-1-propene | 41 | 3.020 | 3.038 | -0.018 | 92 | 3320990 | 59.0 | |
| 54 Methyl tert-butyl ether | 73 | 3.368 | 3.386 | -0.018 | 95 | 3784348 | 60.4 | |
| 55 Hexane | 57 | 3.542 | 3.560 | -0.018 | 95 | 3942749 | 62.1 | |
| 60 Tert-butyl ethyl ether | 59 | 4.203 | 4.204 | -0.001 | 98 | 28465668 | 305.3 | |
| 67 sec-Butyl Alcohol | 45 | 4.673 | 4.674 | -0.001 | 99 | 1817561 | 2299.5 | |
| 70 Tetrahydrofuran | 42 | 4.760 | 4.761 | -0.001 | 88 | 329675 | 110.2 | |
| 72 Cyclohexane | 56 | 5.004 | 5.022 | -0.018 | 78 | 3565754 | 59.6 | |
| 79 Tert-amyl methyl ether | 73 | 5.579 | 5.579 | -0.001 | 97 | 21959983 | 303.9 | |
| 84 Methylcyclohexane | 55 | 6.484 | 6.484 | 0.0 | 89 | 3172950 | 58.7 | |
| 82 2-Pentanone | 43 | 6.640 | 6.641 | -0.001 | 99 | 2490216 | 222.8 | |
| 86 Methyl methacrylate | 100 | 6.814 | 6.815 | -0.001 | 87 | 644190 | 122.1 | |
| 89 2-Nitropropane | 41 | 7.493 | 7.494 | -0.001 | 98 | 172614 | 62.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.528 | 7.529 | -0.001 | 91 | 657656 | 61.8 | |
| 95 Ethyl methacrylate | 69 | 8.712 | 8.712 | 0.0 | 88 | 3350522 | 121.2 | |
| 101 Tetrahydrothiophene | 60 | 9.391 | 9.391 | 0.0 | 92 | 233948 | 61.8 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.350 | 12.350 | 0.0 | 0 | 152684 | 61.9 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.872 | 12.873 | -0.001 | 91 | 197272 | 61.7 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.561 | 14.544 | 0.016 | 99 | 7009100 | 58.1 | |

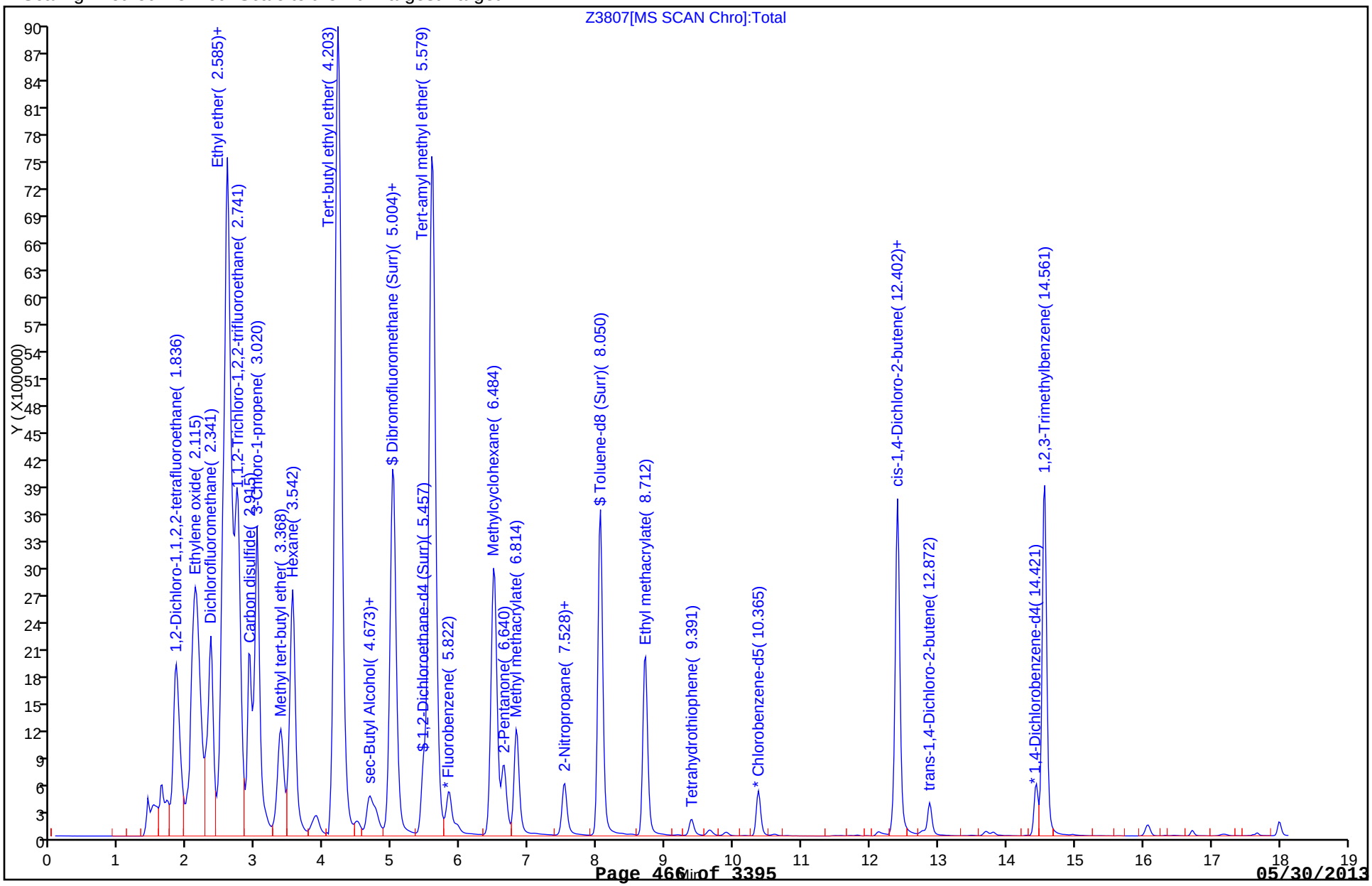
Report Date: 02-May-2013 00:32:38 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D

| | | | |
|---|---|---|---|
| Injection Date: | 01-May-2013 23:48:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 172220 | Lims Sample ID: | 40 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD003 280-173382/7 | Z4056.D |
| Level 2 | STD01 280-173382/32 | Z4057.D |
| Level 3 | STD02 280-173382/33 | Z4058.D |
| Level 4 | STD05 280-173382/34 | Z4059.D |
| Level 5 | STD10 280-173382/35 | Z4060.D |
| Level 6 | STD30 280-173382/36 | Z4061.D |
| Level 7 | STD60 280-173382/37 | Z4062.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.6415 0.6916 | 0.6090 0.6975 | 0.6768 | 0.6707 | 0.6744 | Ave | | 0.6659 | | | | 4.6 | | 15.0 | | | |
| Chloromethane | +++++ 0.4779 | 0.5621 0.4870 | 0.5712 | 0.5268 | 0.5411 | Ave | | 0.5277 | | | 0.1000 | 7.3 | | 15.0 | | | |
| Vinyl chloride | +++++ 0.3822 | 0.3812 0.3899 | 0.3905 | 0.3645 | 0.3696 | Ave | | 0.3796 | | | | 2.8 | | 30.0 | | | |
| Bromomethane | +++++ 0.4109 | 0.4504 0.4202 | 0.4478 | 0.4158 | 0.4076 | Ave | | 0.4254 | | | | 4.4 | | 15.0 | | | |
| Chloroethane | 0.2873 0.2533 | 0.2871 0.2559 | 0.2630 | 0.2537 | 0.2516 | Ave | | 0.2645 | | | | 6.0 | | 15.0 | | | |
| Trichlorofluoromethane | 0.9867 0.9340 | 0.9114 0.9387 | 0.9461 | 0.9091 | 0.9103 | Ave | | 0.9338 | | | | 3.0 | | 15.0 | | | |
| Ethanol | +++++ 0.0009 | +++++ 0.0008 | 0.0007 | 0.0010 | 0.0009 | Ave | | 0.0009 | | | | 11.0 | | 15.0 | | | |
| Acrolein | +++++ 0.0097 | 0.0127 0.0105 | 0.0116 | 0.0101 | 0.0101 | Ave | | 0.0108 | | | | 11.0 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.3805 0.3743 | 0.3532 0.3607 | 0.3649 | 0.3666 | 0.3544 | Ave | | 0.3649 | | | | 2.7 | | 30.0 | | | |
| Acetone | +++++ 0.0277 | +++++ 0.0272 | 0.0369 | 0.0317 | 0.0286 | Ave | | 0.0304 | | | | 13.0 | | 15.0 | | | |
| Iodomethane | +++++ 0.7535 | 0.7615 0.7533 | 0.7416 | 0.7515 | 0.7276 | Ave | | 0.7482 | | | | 1.6 | | 15.0 | | | |
| Acetonitrile | +++++ 0.0145 | 0.0167 0.0143 | 0.0162 | 0.0150 | 0.0145 | Ave | | 0.0152 | | | | 6.5 | | 15.0 | | | |
| Methylene Chloride | +++++ 0.3440 | +++++ 0.3363 | 0.5744 | 0.4250 | 0.3697 | Lin2 | 0.4962 | 0.3255 | | | | | | | 1.0000 | | 0.9900 |
| 2-Methyl-2-propanol | +++++ 0.0125 | 0.0129 0.0125 | 0.0129 | 0.0125 | 0.0123 | Ave | | 0.0126 | | | | 1.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| trans-1,2-Dichloroethene | 0.4927<br>0.4448 | 0.4344<br>0.4356 | 0.4379 | 0.4452 | 0.4296 | Ave | | 0.4457 | | | | 4.8 | | 15.0 | | | |
| Acrylonitrile | 0.0353<br>0.0299 | 0.0312<br>0.0303 | 0.0307 | 0.0304 | 0.0301 | Ave | | 0.0311 | | | | 6.1 | | 15.0 | | | |
| Isopropyl ether | 0.3189<br>0.3180 | 0.3020<br>0.3249 | 0.3026 | 0.3078 | 0.3053 | Ave | | 0.3114 | | | | 2.9 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.8341<br>0.7924 | 0.7635<br>0.7904 | 0.7735 | 0.7767 | 0.7581 | Ave | | 0.7841 | | | 0.1000 | 3.2 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.5990<br>0.5942 | 0.5584<br>0.5680 | 0.5741 | 0.5614 | 0.5484 | Ave | | 0.5719 | | | | 3.3 | | 15.0 | | | |
| 2,2-Dichloropropane | +++++<br>0.6603 | 0.7332<br>0.6332 | 0.6991 | 0.6713 | 0.6434 | Ave | | 0.6734 | | | | 5.5 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.4632<br>0.4465 | 0.4339<br>0.4465 | 0.4395 | 0.4451 | 0.4367 | Ave | | 0.4445 | | | | 2.2 | | 15.0 | | | |
| 2-Butanone (MEK) | +++++<br>0.0608 | 0.0803<br>0.0619 | 0.0678 | 0.0620 | 0.0616 | Ave | | 0.0657 | | | | 12.0 | | 15.0 | | | |
| Propionitrile | +++++<br>0.0113 | 0.0106<br>0.0114 | 0.0112 | 0.0111 | 0.0114 | Ave | | 0.0112 | | | | 2.5 | | 15.0 | | | |
| Chlorobromomethane | 0.1891<br>0.1928 | 0.1848<br>0.1954 | 0.1837 | 0.1874 | 0.1877 | Ave | | 0.1887 | | | | 2.2 | | 15.0 | | | |
| Methacrylonitrile | 0.0778<br>0.0769 | 0.0736<br>0.0766 | 0.0731 | 0.0750 | 0.0741 | Ave | | 0.0753 | | | | 2.4 | | 15.0 | | | |
| Chloroform | 0.8664<br>0.8072 | 0.7940<br>0.8001 | 0.7976 | 0.7956 | 0.7794 | Ave | | 0.8058 | | | | 3.5 | | 30.0 | | | |
| 1,1,1-Trichloroethane | 0.8545<br>0.8194 | 0.7925<br>0.7945 | 0.7958 | 0.8030 | 0.7745 | Ave | | 0.8049 | | | | 3.2 | | 15.0 | | | |
| Carbon tetrachloride | 0.7825<br>0.7795 | 0.7200<br>0.7643 | 0.7448 | 0.7384 | 0.7122 | Ave | | 0.7488 | | | | 3.7 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.7685<br>0.7161 | 0.6930<br>0.6890 | 0.7007 | 0.6837 | 0.6592 | Ave | | 0.7015 | | | | 4.9 | | 15.0 | | | |
| Isobutyl alcohol | +++++<br>0.0046 | 0.0081<br>0.0045 | 0.0043 | 0.0042 | 0.0046 | Lin1 | 0.0377 | 0.0045 | | | | | | | 0.9950 | | 0.9900 |
| Benzene | 1.3219<br>1.2350 | 1.1972<br>1.2236 | 1.2029 | 1.2085 | 1.1873 | Ave | | 1.2252 | | | | 3.7 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.3380<br>0.3362 | 0.3282<br>0.3383 | 0.3344 | 0.3345 | 0.3316 | Ave | | 0.3345 | | | | 1.1 | | 15.0 | | | |
| Trichloroethene | 0.6469<br>0.5817 | 0.5636<br>0.5514 | 0.5679 | 0.5639 | 0.5434 | Ave | | 0.5741 | | | | 6.0 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.4496<br>0.4299 | 0.4167<br>0.4298 | 0.4138 | 0.4271 | 0.4189 | Ave | | 0.4265 | | | | 2.8 | | 30.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dibromomethane | 0.2718<br>0.2691 | 0.2687<br>0.2711 | 0.2690 | 0.2674 | 0.2637 | Ave | | 0.2687 | | | | 1.0 | | 15.0 | | | |
| 1,4-Dioxane | +++++<br>0.0014 | +++++<br>0.0014 | 0.0012 | 0.0013 | 0.0014 | Ave | | 0.0013 | | | | 7.9 | | 15.0 | | | |
| Dichlorobromomethane | 0.7231<br>0.7177 | 0.6848<br>0.7185 | 0.6874 | 0.6993 | 0.6924 | Ave | | 0.7033 | | | | 2.3 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 2.8050<br>2.7691 | 2.6993<br>2.7270 | 2.7524 | 2.7038 | 2.7089 | Ave | | 2.7379 | | | | 1.4 | | 15.0 | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.1867<br>0.1905 | 0.2041<br>0.1944 | 0.1986 | 0.1871 | 0.1864 | Ave | | 0.1926 | | | | 3.5 | | 15.0 | | | |
| Toluene | 1.5619<br>1.4854 | 1.4494<br>1.4432 | 1.4467 | 1.4534 | 1.3967 | Ave | | 1.4624 | | | | 3.5 | | 30.0 | | | |
| trans-1,3-Dichloropropene | 0.4148<br>0.4291 | 0.4140<br>0.4278 | 0.4197 | 0.4285 | 0.4219 | Ave | | 0.4223 | | | | 1.5 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.2899<br>0.2810 | 0.2740<br>0.2825 | 0.2770 | 0.2750 | 0.2740 | Ave | | 0.2791 | | | | 2.1 | | 15.0 | | | |
| Tetrachloroethene | 2.5316<br>2.4959 | 2.3691<br>2.3409 | 2.4609 | 2.4050 | 2.3130 | Ave | | 2.4166 | | | | 3.4 | | 15.0 | | | |
| 1,3-Dichloropropane | 2.0873<br>2.0635 | 2.0359<br>2.0426 | 2.0624 | 2.0345 | 2.0425 | Ave | | 2.0527 | | | | 0.9 | | 15.0 | | | |
| 2-Hexanone | 0.5666<br>0.5817 | 0.5525<br>0.5766 | 0.5852 | 0.6119 | 0.5826 | Ave | | 0.5796 | | | | 3.1 | | 15.0 | | | |
| Chlorodibromomethane | 2.1590<br>2.2794 | 2.1288<br>2.2584 | 2.2118 | 2.2320 | 2.2429 | Ave | | 2.2160 | | | | 2.4 | | 15.0 | | | |
| Ethylene Dibromide | 1.7373<br>1.7241 | 1.6784<br>1.7017 | 1.7183 | 1.6807 | 1.6873 | Ave | | 1.7040 | | | | 1.4 | | 15.0 | | | |
| 1-Chlorohexane | 4.0185<br>3.3312 | 3.3190<br>3.0340 | 3.3311 | 3.2513 | 3.0625 | Ave | | 3.3354 | | | | 9.8 | | 15.0 | | | |
| Chlorobenzene | 4.9324<br>4.7634 | 4.5876<br>4.5596 | 4.7238 | 4.6410 | 4.5473 | Ave | | 4.6793 | | | 0.3000 | 3.0 | | 15.0 | | | |
| Ethylbenzene | 2.5637<br>2.4506 | 2.3476<br>2.2880 | 2.4046 | 2.3643 | 2.2580 | Ave | | 2.3824 | | | | 4.3 | | 30.0 | | | |
| 1,1,1,2-Tetrachloroethane | 2.2635<br>2.2197 | 2.0727<br>2.1629 | 2.1710 | 2.1647 | 2.1431 | Ave | | 2.1711 | | | | 2.8 | | 15.0 | | | |
| m-Xylene & p-Xylene | 3.2933<br>3.1687 | 3.0829<br>2.9555 | 3.1055 | 3.1076 | 2.9724 | Ave | | 3.0980 | | | | 3.7 | | 15.0 | | | |
| o-Xylene | 3.0297<br>2.8602 | 2.7622<br>2.6689 | 2.8884 | 2.8036 | 2.7213 | Ave | | 2.8192 | | | | 4.3 | | 15.0 | | | |
| Styrene | 4.7398<br>4.6331 | 4.2710<br>4.3670 | 4.4393 | 4.5205 | 4.4099 | Ave | | 4.4829 | | | | 3.6 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Bromoform | 1.3973<br>1.5239 | 1.3722<br>1.4967 | 1.4588 | 1.4591 | 1.4871 | Ave | | 1.4564 | | | 0.1000 | 3.7 | | 15.0 | | | |
| Isopropylbenzene | 5.6074<br>5.1607 | 4.9671<br>4.8760 | 5.0649 | 5.1162 | 4.7048 | Ave | | 5.0710 | | | | 5.6 | | 15.0 | | | |
| Cyclohexanone | 0.0331<br>0.0251 | 0.0251<br>0.0235 | 0.0263 | 0.0252 | 0.0253 | Ave | | 0.0262 | | | | 12.0 | | 15.0 | | | |
| Bromobenzene | 1.3266<br>1.2983 | 1.2545<br>1.2690 | 1.2588 | 1.2862 | 1.2287 | Ave | | 1.2746 | | | | 2.5 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | +++++<br>0.9347 | 0.9905<br>0.9598 | 0.9599 | 0.9626 | 0.9139 | Ave | | 0.9536 | | | 0.3000 | 2.8 | | 15.0 | | | |
| N-Propylbenzene | 1.3243<br>1.2386 | 1.1909<br>1.1534 | 1.2260 | 1.2140 | 1.1294 | Ave | | 1.2109 | | | | 5.2 | | 15.0 | | | |
| 1,2,3-Trichloropropane | +++++<br>0.2234 | 0.2155<br>0.2261 | 0.2202 | 0.2200 | 0.2201 | Ave | | 0.2209 | | | | 1.6 | | 15.0 | | | |
| 2-Chlorotoluene | 1.0862<br>1.0362 | 1.0125<br>0.9792 | 1.0301 | 1.0268 | 0.9575 | Ave | | 1.0184 | | | | 4.1 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 4.0540<br>3.9684 | 3.8347<br>3.7069 | 3.8341 | 3.8759 | 3.6180 | Ave | | 3.8417 | | | | 3.8 | | 15.0 | | | |
| 4-Chlorotoluene | 1.1444<br>1.1056 | 1.0621<br>1.0515 | 1.0865 | 1.1083 | 1.0188 | Ave | | 1.0825 | | | | 3.9 | | 15.0 | | | |
| tert-Butylbenzene | +++++<br>3.6593 | 3.6582<br>3.3826 | 3.6775 | 4.0983 | 3.3444 | Ave | | 3.6367 | | | | 7.4 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 4.1067<br>3.8559 | 3.6812<br>3.5748 | 3.7236 | 3.7722 | 3.4983 | Ave | | 3.7447 | | | | 5.3 | | 15.0 | | | |
| sec-Butylbenzene | 1.1869<br>1.0880 | 1.0652<br>0.9809 | 1.0826 | 1.0831 | 0.9923 | Ave | | 1.0684 | | | | 6.4 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 2.4566<br>2.2376 | 2.2120<br>2.0944 | 2.2094 | 2.2191 | 2.0706 | Ave | | 2.2142 | | | | 5.7 | | 15.0 | | | |
| 4-Isopropyltoluene | 5.4390<br>4.6822 | 4.6684<br>4.2243 | 4.5931 | 4.5758 | 4.1865 | Ave | | 4.6242 | | | | 8.9 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 2.5996<br>2.2972 | 2.3626<br>2.1431 | 2.3190 | 2.3645 | 2.2024 | Ave | | 2.3269 | | | | 6.3 | | 15.0 | | | |
| n-Butylbenzene | 5.7182<br>5.0171 | 4.9309<br>4.4228 | 4.9407 | 4.8742 | 4.4488 | Ave | | 4.9075 | | | | 8.8 | | 15.0 | | | |
| 1,2-Dichlorobenzene | 2.0717<br>1.9028 | 1.8934<br>1.8032 | 1.9153 | 1.9045 | 1.8158 | Ave | | 1.9010 | | | | 4.6 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.1805<br>0.1901 | 0.1804<br>0.1901 | 0.1830 | 0.1857 | 0.1871 | Ave | | 0.1853 | | | | 2.2 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 1.6218<br>1.5574 | 1.5503<br>1.4378 | 1.5519 | 1.5708 | 1.4770 | Ave | | 1.5381 | | | | 4.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | 1.4812<br>1.4303 | 1.3455<br>1.2393 | 1.3786 | 1.3634 | 1.2525 | Ave | | 1.3558 | | | | 6.5 | | 15.0 | | | |
| Naphthalene | 1.8050<br>1.4767 | 1.7158<br>1.4247 | 1.5651 | 1.4803 | 1.4437 | Ave | | 1.5588 | | | | 9.4 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 1.4268<br>1.2069 | 1.2510<br>1.1333 | 1.2537 | 1.1990 | 1.1487 | Ave | | 1.2314 | | | | 7.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD003 280-173382/7 | Z4056.D |
| Level 2 | STD01 280-173382/32 | Z4057.D |
| Level 3 | STD02 280-173382/33 | Z4058.D |
| Level 4 | STD05 280-173382/34 | Z4059.D |
| Level 5 | STD10 280-173382/35 | Z4060.D |
| Level 6 | STD30 280-173382/36 | Z4061.D |
| Level 7 | STD60 280-173382/37 | Z4062.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 16614<br>1877042 | 52600<br>3732985 | 117600 | 296865 | 599181 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Chloromethane | FB | Ave | +++++<br>1297051 | 48550<br>2606404 | 99253 | 233174 | 480743 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Vinyl chloride | FB | Ave | +++++<br>1037380 | 32924<br>2086629 | 67854 | 161329 | 328329 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Bromomethane | FB | Ave | +++++<br>1115125 | 38904<br>2248988 | 77797 | 184031 | 362078 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Chloroethane | FB | Ave | 7441<br>687422 | 24796<br>1369525 | 45701 | 112269 | 223512 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Trichlorofluoromethane | FB | Ave | 25555<br>2535047 | 78718<br>5023958 | 164387 | 402353 | 808709 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Ethanol | FB | Ave | +++++<br>119371 | +++++<br>219980 | 6496 | 22101 | 40093 | +++++<br>1500 | +++++<br>3000 | 100 | 250 | 500 |
| Acrolein | FB | Ave | +++++<br>264060 | 11005<br>560741 | 20210 | 44606 | 89777 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| 1,1-Dichloroethene | FB | Ave | 9854<br>1015972 | 30511<br>1930616 | 63399 | 162252 | 314835 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Acetone | FB | Ave | +++++<br>300992 | +++++<br>582379 | 25624 | 56106 | 101477 | +++++<br>120 | +++++<br>240 | 8.00 | 20.0 | 40.0 |
| Iodomethane | FB | Ave | +++++<br>2045150 | 65778<br>4031395 | 128852 | 332590 | 646386 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Acetonitrile | FB | Ave | +++++<br>393370 | 14406<br>765030 | 28076 | 66193 | 129204 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| Methylene Chloride | FB | Lin2 | +++++<br>933551 | +++++<br>1799877 | 99807 | 188082 | 328487 | +++++<br>30.0 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Methyl-2-propanol | FB | Ave | +++++<br>679025 | 22235<br>1340726 | 44792 | 110921 | 218328 | +++++<br>600 | 20.0<br>1200 | 40.0 | 100 | 200 |
| trans-1,2-Dichloroethene | FB | Ave | 12761<br>1207293 | 37517<br>2331271 | 76081 | 197027 | 381684 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Acrylonitrile | FB | Ave | 9136<br>811043 | 26962<br>1619891 | 53398 | 134388 | 267142 | 3.00<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| Isopropyl ether | FB | Ave | 41303<br>4315321 | 130440<br>8692785 | 262848 | 681169 | 1356176 | 1.50<br>150 | 5.00<br>300 | 10.0 | 25.0 | 50.0 |
| 1,1-Dichloroethane | FB | Ave | 21602<br>2150539 | 65950<br>4230306 | 134403 | 343771 | 673503 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Chloro-1,3-butadiene | FB | Ave | 15515<br>1612634 | 48233<br>3039843 | 99742 | 248476 | 487173 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2,2-Dichloropropane | FB | Ave | +++++<br>1792217 | 63333<br>3388930 | 121471 | 297094 | 571574 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| cis-1,2-Dichloroethene | FB | Ave | 11998<br>1211870 | 37477<br>2389688 | 76358 | 196978 | 387969 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Butanone (MEK) | FB | Ave | +++++<br>660178 | 27738<br>1325913 | 47123 | 109768 | 218832 | +++++<br>120 | 4.00<br>240 | 8.00 | 20.0 | 40.0 |
| Propionitrile | FB | Ave | +++++<br>306804 | 9186<br>607444 | 19520 | 49107 | 101094 | +++++<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| Chlorobromomethane | FB | Ave | 4898<br>523171 | 15962<br>1045694 | 31922 | 82948 | 166715 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Methacrylonitrile | FB | Ave | 20148<br>2086378 | 63569<br>4101598 | 127006 | 332127 | 658652 | 3.00<br>300 | 10.0<br>600 | 20.0 | 50.0 | 100 |
| Chloroform | FB | Ave | 22439<br>2190769 | 68580<br>4281847 | 138580 | 352137 | 692469 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1,1-Trichloroethane | FB | Ave | 22132<br>2223809 | 68449<br>4252010 | 138269 | 355408 | 688106 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Carbon tetrachloride | FB | Ave | 20267<br>2115496 | 62193<br>4090264 | 129412 | 326829 | 632716 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1-Dichloropropene | FB | Ave | 19904<br>1943581 | 59860<br>3687588 | 121748 | 302591 | 585667 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Isobutyl alcohol | FB | Lin1 | +++++<br>249869 | 13947<br>484050 | 14903 | 36791 | 81734 | +++++<br>600 | 20.0<br>1200 | 40.0 | 100 | 200 |
| Benzene | FB | Ave | 34236<br>3351787 | 103411<br>6548367 | 209009 | 534877 | 1054802 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dichloroethane | FB | Ave | 8755<br>912505 | 28348<br>1810591 | 58110 | 148059 | 294584 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Trichloroethene | FB | Ave | 16754<br>1578716 | 48685<br>2951034 | 98664 | 249560 | 482802 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dichloropropane | FB | Ave | 11645<br>1166845 | 35990<br>2300138 | 71891 | 189027 | 372143 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Dibromomethane | FB | Ave | 7040<br>730267 | 23210<br>1450933 | 46739 | 118359 | 234276 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,4-Dioxane | FB | Ave | +++++<br>189367 | +++++<br>384136 | 10175 | 28565 | 60930 | +++++<br>1500 | +++++<br>3000 | 100 | 250 | 500 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorobromomethane | FB | Ave | 18728<br>1947998 | 59150<br>3845393 | 119439 | 309510 | 615141 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| cis-1,3-Dichloropropene | CBZ | Ave | 15164<br>1598426 | 49022<br>3159214 | 98945 | 252202 | 504140 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 4-Methyl-2-pentanone (MIBK) | FB | Ave | 19347<br>2068336 | 70522<br>4162391 | 138044 | 331217 | 662547 | 1.20<br>120 | 4.00<br>240 | 8.00 | 20.0 | 40.0 |
| Toluene | FB | Ave | 40454<br>4031387 | 125196<br>7723772 | 251365 | 643251 | 1240854 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| trans-1,3-Dichloropropene | FB | Ave | 10744<br>1164713 | 35762<br>2289711 | 72914 | 189662 | 374849 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1,2-Trichloroethane | FB | Ave | 7509<br>762698 | 23669<br>1512082 | 48126 | 121691 | 243427 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Tetrachloroethene | CBZ | Ave | 13686<br>1440691 | 43025<br>2711888 | 88464 | 224331 | 430465 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,3-Dichloropropane | CBZ | Ave | 11284<br>1191100 | 36973<br>2366302 | 74140 | 189773 | 380115 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Hexanone | CBZ | Ave | 12253<br>1343130 | 40134<br>2671780 | 84141 | 228294 | 433704 | 1.20<br>120 | 4.00<br>240 | 8.00 | 20.0 | 40.0 |
| Chlorodibromomethane | CBZ | Ave | 11672<br>1315722 | 38660<br>2616329 | 79509 | 208196 | 417410 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Ethylene Dibromide | CBZ | Ave | 9392<br>995198 | 30481<br>1971445 | 61769 | 156767 | 314017 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1-Chlorohexane | CBZ | Ave | 21364<br>1890959 | 59275<br>3456485 | 117759 | 298231 | 560475 | 0.295<br>29.5 | 0.983<br>59.0 | 1.97 | 4.92 | 9.83 |
| Chlorobenzene | CBZ | Ave | 26665<br>2749592 | 83315<br>5282272 | 169812 | 432898 | 846279 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Ethylbenzene | CBZ | Ave | 13860<br>1414554 | 42635<br>2650620 | 86442 | 220531 | 420221 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 12237<br>1281275 | 37642<br>2505740 | 78045 | 201914 | 398836 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 35608<br>3658117 | 111977<br>6847898 | 223276 | 579740 | 1106351 | 0.600<br>60.0 | 2.00<br>120 | 4.00 | 10.0 | 20.0 |
| o-Xylene | CBZ | Ave | 16379<br>1650999 | 50163<br>3091902 | 103832 | 261514 | 506448 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Styrene | CBZ | Ave | 25624<br>2674366 | 77564<br>5059212 | 159585 | 421655 | 820698 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Bromoform | CBZ | Ave | 7554<br>879652 | 24921<br>1733922 | 52441 | 136104 | 276747 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Isopropylbenzene | DCB | Ave | 53864<br>5302217 | 162751<br>9667483 | 333199 | 852155 | 1590377 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Cyclohexanone | CBZ | Ave | 7157<br>578698 | 18204<br>1088134 | 37889 | 94206 | 188093 | 12.0<br>1200 | 40.0<br>2400 | 80.0 | 200 | 400 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Bromobenzene | DCB | Ave | 12743<br>1333912 | 41106<br>2516008 | 82812 | 214228 | 415354 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | +++++<br>960381 | 32455<br>1902888 | 63148 | 160324 | 308937 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| N-Propylbenzene | DCB | Ave | 12721<br>1272522 | 39022<br>2286766 | 80656 | 202204 | 381763 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,3-Trichloropropane | DCB | Ave | +++++<br>229509 | 7061<br>448373 | 14484 | 36644 | 74415 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 2-Chlorotoluene | DCB | Ave | 10434<br>1064636 | 33175<br>1941471 | 67769 | 171030 | 323684 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 38942<br>4077270 | 125646<br>7349647 | 252231 | 645575 | 1223017 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 4-Chlorotoluene | DCB | Ave | 10993<br>1135919 | 34801<br>2084741 | 71474 | 184591 | 344404 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| tert-Butylbenzene | DCB | Ave | +++++<br>3759642 | 119865<br>6706658 | 241928 | 682619 | 1130521 | +++++<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 39448<br>3961655 | 120617<br>7087753 | 244959 | 628298 | 1182562 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| sec-Butylbenzene | DCB | Ave | 11401<br>1117880 | 34903<br>1944879 | 71218 | 180395 | 335423 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 23598<br>2299005 | 72479<br>4152479 | 145346 | 369616 | 699920 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 4-Isopropyltoluene | DCB | Ave | 52246<br>4810570 | 152965<br>8375418 | 302157 | 762149 | 1415194 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 24971<br>2360209 | 77413<br>4249105 | 152558 | 393835 | 744500 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| n-Butylbenzene | DCB | Ave | 54928<br>5154727 | 161564<br>8768973 | 325027 | 811853 | 1503857 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 19900<br>1955025 | 62040<br>3575203 | 125999 | 317208 | 613786 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 1734<br>195276 | 5911<br>376826 | 12036 | 30925 | 63250 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 15579<br>1600095 | 50798<br>2850625 | 102095 | 261625 | 499285 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Hexachlorobutadiene | DCB | Ave | 14228<br>1469473 | 44087<br>2457118 | 90691 | 227086 | 423400 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| Naphthalene | DCB | Ave | 17339<br>1517159 | 56220<br>2824699 | 102963 | 246560 | 488030 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 13706<br>1239963 | 40990<br>2247066 | 82475 | 199714 | 388307 | 0.300<br>30.0 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 19:19 Calibration End Date: 05/08/2013 21:33 Calibration ID: 13942

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |
| Lin2 = Linear 1/conc^2 ISTD |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4056.D
Lims ID: std003 Client ID:
Inject. Date: 08-May-2013 19:19:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: std003
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 3
Lims Batch ID: 173382 Lims Sample ID: 7
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:24 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: tinkhams Date: 08-May-2013 19:43:22

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.823 | 5.841 | -0.018 | 98 | 1079168 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 225256 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 97 | 400244 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.769 | 1.769 | 0.0 | 64 | 16614 | 0.2890 | |
| 25 Chloromethane | 50 | | 1.856 | | | | | |
| 28 Vinyl chloride | 62 | | 1.960 | | | | | |
| 30 Bromomethane | 94 | | 2.169 | | | | | |
| 31 Chloroethane | 64 | 2.187 | 2.204 | -0.017 | 53 | 7441 | 0.3258 | |
| 33 Trichlorofluoromethane | 101 | 2.326 | 2.413 | -0.087 | 68 | 25555 | 0.3170 | |
| 35 Ethanol | 45 | | 2.482 | | | | | 19 |
| 41 Acrolein | 56 | | 2.691 | | | | | |
| 43 1,1-Dichloroethene | 96 | 2.726 | 2.726 | 0.0 | 82 | 9854 | 0.3128 | |
| 42 Acetone | 43 | | 2.813 | | | | | |
| 45 Iodomethane | 142 | 2.883 | 2.883 | 0.001 | 93 | 25509 | 0.3949 | |
| 47 Acetonitrile | 41 | | 3.178 | | | | | |
| 50 Methylene Chloride | 84 | | 3.178 | | | | | |
| 51 2-Methyl-2-propanol | 59 | | 3.248 | | | | | |
| 53 trans-1,2-Dichloroethene | 96 | 3.387 | 3.387 | 0.0 | 89 | 12761 | 0.3316 | |
| 52 Acrylonitrile | 53 | 3.440 | 3.457 | -0.017 | 81 | 9136 | 3.40 | |
| 58 Isopropyl ether | 87 | 3.822 | 3.822 | 0.0 | 98 | 41303 | 1.54 | |
| 56 1,1-Dichloroethane | 63 | 3.822 | 3.840 | -0.018 | 68 | 21602 | 0.3191 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.875 | 3.892 | -0.017 | 61 | 15515 | 0.3142 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.466 | 4.466 | 0.0 | 70 | 11998 | 0.3127 | |
| 63 2,2-Dichloropropane | 77 | | 4.466 | | | | | |
| 61 2-Butanone (MEK) | 43 | 4.484 | 4.483 | 0.001 | 70 | 15544 | 2.74 | |
| 64 Propionitrile | 54 | | 4.657 | | | | | |
| 68 Chlorobromomethane | 128 | 4.745 | 4.744 | 0.001 | 70 | 4898 | 0.3007 | |
| 66 Methacrylonitrile | 41 | 4.779 | 4.779 | 0.0 | 84 | 20148 | 3.10 | |
| 69 Chloroform | 83 | 4.814 | 4.814 | 0.0 | 86 | 22439 | 0.3226 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 1,1,1-Trichloroethane | 97 | 5.023 | 5.023 | 0.0 | 43 | 22132 | 0.3185 | |
| 74 Carbon tetrachloride | 117 | 5.180 | 5.179 | 0.001 | 77 | 20267 | 0.3135 | |
| 73 1,1-Dichloropropene | 75 | 5.197 | 5.197 | 0.0 | 70 | 19904 | 0.3287 | |
| 75 Isobutyl alcohol | 41 | | 5.406 | | | | | |
| 77 Benzene | 78 | 5.458 | 5.458 | 0.0 | 91 | 34236 | 0.3237 | |
| 76 1,2-Dichloroethane | 62 | 5.562 | 5.562 | 0.0 | 40 | 8755 | 0.3032 | |
| 78 n-Butanol | 56 | 6.311 | 6.293 | 0.018 | 20 | 5312 | 16.7 | |
| 80 Trichloroethene | 95 | 6.293 | 6.310 | -0.017 | 77 | 16754 | 0.3380 | |
| 83 1,2-Dichloropropane | 63 | 6.659 | 6.676 | -0.017 | 65 | 11645 | 0.3162 | |
| 85 Dibromomethane | 93 | 6.833 | 6.832 | 0.001 | 80 | 7040 | 0.3035 | |
| 87 1,4-Dioxane | 88 | | 6.850 | | | | | |
| 88 Dichlorobromomethane | 83 | 7.042 | 7.059 | -0.017 | 70 | 18728 | 0.3084 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.720 | 7.720 | 0.0 | 55 | 15164 | 0.3073 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.981 | 7.981 | 0.0 | 84 | 19347 | 1.16 | |
| 93 Toluene | 91 | 8.138 | 8.155 | -0.017 | 79 | 40454 | 0.3204 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.608 | 8.607 | 0.001 | 56 | 10744 | 0.2947 | |
| 96 1,1,2-Trichloroethane | 97 | 8.886 | 8.886 | 0.0 | 48 | 7509 | 0.3117 | |
| 97 Tetrachloroethene | 164 | 8.938 | 8.938 | 0.0 | 90 | 13686 | 0.3143 | |
| 98 1,3-Dichloropropane | 76 | 9.147 | 9.147 | 0.0 | 54 | 11284 | 0.3051 | |
| 99 2-Hexanone | 43 | 9.286 | 9.286 | 0.0 | 86 | 12253 | 1.17 | |
| 100 Chlorodibromomethane | 129 | 9.443 | 9.443 | 0.0 | 47 | 11672 | 0.2923 | |
| 102 Ethylene Dibromide | 107 | 9.634 | 9.634 | 0.0 | 49 | 9392 | 0.3059 | |
| 104 1-Chlorohexane | 91 | 10.400 | 10.400 | 0.0 | 71 | 21364 | 0.3554 | |
| 103 Chlorobenzene | 112 | 10.400 | 10.417 | -0.017 | 87 | 26665 | 0.3162 | |
| 106 Ethylbenzene | 106 | 10.574 | 10.574 | 0.0 | 89 | 13860 | 0.3228 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.574 | 10.574 | 0.0 | 50 | 12237 | 0.3128 | |
| 107 m-Xylene & p-Xylene | 106 | 10.783 | 10.782 | 0.001 | 0 | 35608 | 0.6378 | |
| 108 o-Xylene | 106 | 11.444 | 11.461 | -0.017 | 87 | 16379 | 0.3224 | |
| 109 Styrene | 104 | 11.496 | 11.496 | 0.0 | 85 | 25624 | 0.3172 | |
| 110 Bromoform | 173 | 11.809 | 11.809 | 0.0 | 73 | 7554 | 0.2878 | |
| 111 Isopropylbenzene | 105 | 12.088 | 12.087 | 0.001 | 76 | 53864 | 0.3317 | |
| 112 Cyclohexanone | 55 | 12.331 | 12.331 | 0.0 | 65 | 7157 | 15.1 | |
| 114 Bromobenzene | 156 | 12.610 | 12.609 | 0.001 | 87 | 12743 | 0.3122 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.749 | 12.749 | 0.0 | 20 | 13400 | 0.4389 | |
| 118 N-Propylbenzene | 120 | 12.801 | 12.801 | 0.0 | 90 | 12721 | 0.3281 | |
| 116 1,2,3-Trichloropropane | 110 | 12.801 | 12.818 | -0.017 | 15 | 2400 | 0.3393 | |
| 119 2-Chlorotoluene | 126 | 12.958 | 12.957 | 0.001 | 89 | 10434 | 0.3200 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.149 | 13.149 | 0.0 | 82 | 38942 | 0.3166 | |
| 120 4-Chlorotoluene | 126 | 13.167 | 13.166 | 0.001 | 88 | 10993 | 0.3172 | |
| 122 tert-Butylbenzene | 119 | 13.689 | 13.688 | 0.001 | 78 | 45380 | 0.3897 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.810 | 13.810 | 0.0 | 57 | 39448 | 0.3290 | |
| 124 sec-Butylbenzene | 134 | 14.089 | 14.089 | 0.0 | 74 | 11401 | 0.3333 | |
| 125 1,3-Dichlorobenzene | 146 | 14.298 | 14.297 | 0.001 | 85 | 23598 | 0.3328 | |
| 126 4-Isopropyltoluene | 119 | 14.367 | 14.367 | 0.0 | 89 | 52246 | 0.3529 | |
| 127 1,4-Dichlorobenzene | 146 | 14.472 | 14.471 | 0.001 | 81 | 24971 | 0.3351 | |
| 130 n-Butylbenzene | 91 | 15.098 | 15.098 | 0.0 | 84 | 54928 | 0.3496 | |
| 129 1,2-Dichlorobenzene | 146 | 15.133 | 15.133 | 0.0 | 83 | 19900 | 0.3269 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.420 | 16.438 | -0.018 | 31 | 1734 | 0.2923 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.360 | 17.360 | 0.0 | 68 | 15579 | 0.3163 | |
| 133 Hexachlorobutadiene | 225 | 17.499 | 17.499 | 0.0 | 77 | 14228 | 0.3277 | |
| 134 Naphthalene | 128 | 17.604 | 17.603 | 0.001 | 68 | 17339 | 0.3474 | |
| 135 1,2,3-Trichlorobenzene | 180 | 17.830 | 17.830 | 0.0 | 68 | 13706 | 0.3476 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 0.6443 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 0.9602 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 0.6443 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 0.6021 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 1.21 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 0.9602 | |
| S 138 Total BTEX | 1 | | | | 0 | | 1.93 | |

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

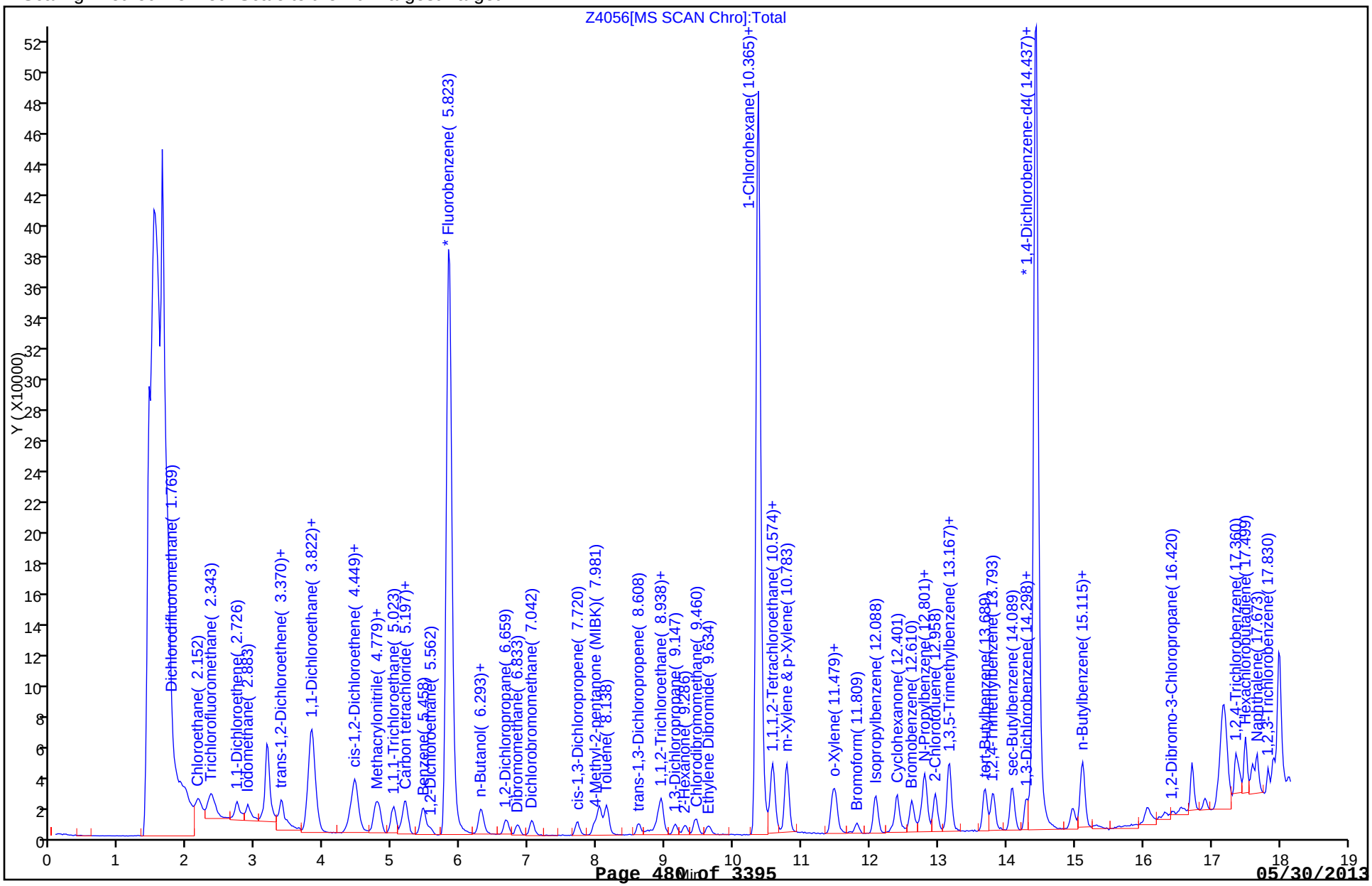
Report Date: 09-May-2013 06:27:24 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4056.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 19:19:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 7 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4057.D
Lims ID: std01 Client ID:
Inject. Date: 08-May-2013 19:41:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: std01
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 4
Lims Batch ID: 173382 Lims Sample ID: 32
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:25 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: tinkhams Date: 08-May-2013 23:13:52

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.828 | 5.841 | -0.013 | 98 | 1079687 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.370 | 10.365 | 0.005 | 89 | 227009 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.424 | 14.437 | -0.013 | 97 | 409574 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.757 | 1.769 | -0.012 | 68 | 52600 | 0.9145 | |
| 25 Chloromethane | 50 | 1.826 | 1.856 | -0.030 | 97 | 48550 | 1.07 | |
| 28 Vinyl chloride | 62 | 1.948 | 1.960 | -0.012 | 87 | 32924 | 1.00 | |
| 30 Bromomethane | 94 | 2.139 | 2.169 | -0.030 | 87 | 38904 | 1.06 | |
| 31 Chloroethane | 64 | 2.192 | 2.204 | -0.012 | 84 | 24796 | 1.09 | |
| 33 Trichlorofluoromethane | 101 | 2.313 | 2.413 | -0.100 | 87 | 78718 | 0.9760 | |
| 35 Ethanol | 45 | 2.505 | 2.482 | 0.023 | 51 | 3960 | 52.7 | |
| 41 Acrolein | 56 | 2.679 | 2.691 | -0.012 | 61 | 11005 | 11.8 | |
| 43 1,1-Dichloroethene | 96 | 2.714 | 2.726 | -0.012 | 95 | 30511 | 0.9679 | |
| 42 Acetone | 43 | 2.801 | 2.813 | -0.012 | 89 | 16945 | 6.45 | |
| 45 Iodomethane | 142 | 2.888 | 2.883 | 0.006 | 97 | 65778 | 1.02 | |
| 47 Acetonitrile | 41 | 3.166 | 3.178 | -0.012 | 23 | 14406 | 11.0 | |
| 50 Methylene Chloride | 84 | 3.166 | 3.178 | -0.012 | 96 | 74040 | 1.11 | |
| 51 2-Methyl-2-propanol | 59 | 3.236 | 3.248 | -0.012 | 88 | 22235 | 20.4 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.375 | 3.387 | -0.012 | 92 | 37517 | 0.9745 | |
| 52 Acrylonitrile | 53 | 3.445 | 3.457 | -0.012 | 97 | 26962 | 10.0 | |
| 58 Isopropyl ether | 87 | 3.810 | 3.822 | -0.012 | 98 | 130440 | 4.85 | |
| 56 1,1-Dichloroethane | 63 | 3.827 | 3.840 | -0.013 | 93 | 65950 | 0.9738 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.880 | 3.892 | -0.012 | 85 | 48233 | 0.9764 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.454 | 4.466 | -0.012 | 84 | 37477 | 0.9762 | |
| 63 2,2-Dichloropropane | 77 | 4.454 | 4.466 | -0.012 | 71 | 63333 | 1.09 | |
| 61 2-Butanone (MEK) | 43 | 4.489 | 4.483 | 0.006 | 91 | 27738 | 4.89 | |
| 64 Propionitrile | 54 | 4.645 | 4.657 | -0.012 | 47 | 9186 | 9.52 | |
| 68 Chlorobromomethane | 128 | 4.732 | 4.744 | -0.012 | 88 | 15962 | 0.9794 | |
| 66 Methacrylonitrile | 41 | 4.767 | 4.779 | -0.012 | 93 | 63569 | 9.77 | |
| 69 Chloroform | 83 | 4.802 | 4.814 | -0.012 | 91 | 68580 | 0.9854 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 1,1,1-Trichloroethane | 97 | 5.011 | 5.023 | -0.012 | 84 | 68449 | 0.9846 | |
| 74 Carbon tetrachloride | 117 | 5.167 | 5.179 | -0.012 | 85 | 62193 | 0.9616 | |
| 73 1,1-Dichloropropene | 75 | 5.202 | 5.197 | 0.005 | 90 | 59860 | 0.9880 | |
| 75 Isobutyl alcohol | 41 | 5.411 | 5.406 | 0.005 | 43 | 13947 | 27.7 | |
| 77 Benzene | 78 | 5.446 | 5.458 | -0.012 | 97 | 103411 | 0.9772 | |
| 76 1,2-Dichloroethane | 62 | 5.567 | 5.562 | 0.005 | 63 | 28348 | 0.9812 | |
| 78 n-Butanol | 56 | 6.298 | 6.293 | 0.005 | 20 | 10930 | 34.4 | |
| 80 Trichloroethene | 95 | 6.298 | 6.310 | -0.012 | 93 | 48685 | 0.9818 | |
| 83 1,2-Dichloropropane | 63 | 6.664 | 6.676 | -0.012 | 87 | 35990 | 0.9769 | |
| 85 Dibromomethane | 93 | 6.838 | 6.832 | 0.006 | 85 | 23210 | 1.00 | |
| 87 1,4-Dioxane | 88 | 6.855 | 6.850 | 0.005 | 1 | 3947 | 34.3 | |
| 88 Dichlorobromomethane | 83 | 7.046 | 7.059 | -0.013 | 94 | 59150 | 0.9737 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.708 | 7.720 | -0.012 | 72 | 49022 | 0.9859 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.969 | 7.981 | -0.012 | 92 | 70522 | 4.24 | |
| 93 Toluene | 91 | 8.143 | 8.155 | -0.012 | 95 | 125196 | 0.99 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.613 | 8.607 | 0.006 | 84 | 35762 | 0.9805 | |
| 96 1,1,2-Trichloroethane | 97 | 8.874 | 8.886 | -0.012 | 85 | 23669 | 0.9820 | |
| 97 Tetrachloroethene | 164 | 8.943 | 8.938 | 0.005 | 97 | 43025 | 0.9803 | |
| 98 1,3-Dichloropropane | 76 | 9.152 | 9.147 | 0.005 | 79 | 36973 | 0.99 | |
| 99 2-Hexanone | 43 | 9.291 | 9.286 | 0.005 | 94 | 40134 | 3.81 | |
| 100 Chlorodibromomethane | 129 | 9.448 | 9.443 | 0.005 | 75 | 38660 | 0.9606 | |
| 102 Ethylene Dibromide | 107 | 9.622 | 9.634 | -0.012 | 79 | 30481 | 0.9850 | |
| 104 1-Chlorohexane | 91 | 10.387 | 10.400 | -0.013 | 85 | 59275 | 0.9786 | |
| 103 Chlorobenzene | 112 | 10.405 | 10.417 | -0.012 | 88 | 83315 | 0.9804 | |
| 106 Ethylbenzene | 106 | 10.561 | 10.574 | -0.013 | 98 | 42635 | 0.9854 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.579 | 10.574 | 0.005 | 82 | 37642 | 0.9547 | |
| 107 m-Xylene & p-Xylene | 106 | 10.788 | 10.782 | 0.006 | 0 | 111977 | 1.99 | |
| 108 o-Xylene | 106 | 11.449 | 11.461 | -0.012 | 96 | 50163 | 0.9798 | |
| 109 Styrene | 104 | 11.501 | 11.496 | 0.005 | 91 | 77564 | 0.9527 | |
| 110 Bromoform | 173 | 11.814 | 11.809 | 0.005 | 84 | 24921 | 0.9422 | |
| 111 Isopropylbenzene | 105 | 12.075 | 12.087 | -0.012 | 93 | 162751 | 0.9795 | |
| 112 Cyclohexanone | 55 | 12.336 | 12.331 | 0.005 | 74 | 18204 | 38.2 | |
| 114 Bromobenzene | 156 | 12.615 | 12.609 | 0.006 | 91 | 41106 | 0.9843 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.754 | 12.749 | 0.005 | 68 | 32455 | 1.04 | |
| 118 N-Propylbenzene | 120 | 12.806 | 12.801 | 0.005 | 97 | 39022 | 0.9835 | |
| 116 1,2,3-Trichloropropane | 110 | 12.806 | 12.818 | -0.012 | 29 | 7061 | 0.9756 | |
| 119 2-Chlorotoluene | 126 | 12.963 | 12.957 | 0.006 | 94 | 33175 | 0.99 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.154 | 13.149 | 0.005 | 93 | 125646 | 1.00 | |
| 120 4-Chlorotoluene | 126 | 13.172 | 13.166 | 0.006 | 97 | 34801 | 0.9812 | |
| 122 tert-Butylbenzene | 119 | 13.694 | 13.688 | 0.006 | 80 | 119865 | 1.01 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.798 | 13.810 | -0.012 | 75 | 120617 | 0.9830 | |
| 124 sec-Butylbenzene | 134 | 14.076 | 14.089 | -0.013 | 92 | 34903 | 1.00 | |
| 125 1,3-Dichlorobenzene | 146 | 14.285 | 14.297 | -0.012 | 93 | 72479 | 1.00 | |
| 126 4-Isopropyltoluene | 119 | 14.372 | 14.367 | 0.005 | 91 | 152965 | 1.01 | |
| 127 1,4-Dichlorobenzene | 146 | 14.477 | 14.471 | 0.006 | 88 | 77413 | 1.02 | |
| 130 n-Butylbenzene | 91 | 15.103 | 15.098 | 0.005 | 95 | 161564 | 1.00 | |
| 129 1,2-Dichlorobenzene | 146 | 15.138 | 15.133 | 0.005 | 92 | 62040 | 1.00 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.425 | 16.438 | -0.013 | 47 | 5911 | 0.9738 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.365 | 17.360 | 0.005 | 91 | 50798 | 1.01 | |
| 133 Hexachlorobutadiene | 225 | 17.504 | 17.499 | 0.005 | 95 | 44087 | 0.99 | |
| 134 Naphthalene | 128 | 17.591 | 17.603 | -0.012 | 89 | 56220 | 1.10 | |
| 135 1,2,3-Trichlorobenzene | 180 | 17.835 | 17.830 | 0.005 | 92 | 40990 | 1.02 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 1.95 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 2.97 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 1.95 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 1.97 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 3.86 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 2.97 | |
| S 138 Total BTEX | 1 | | | | 0 | | 5.92 | |

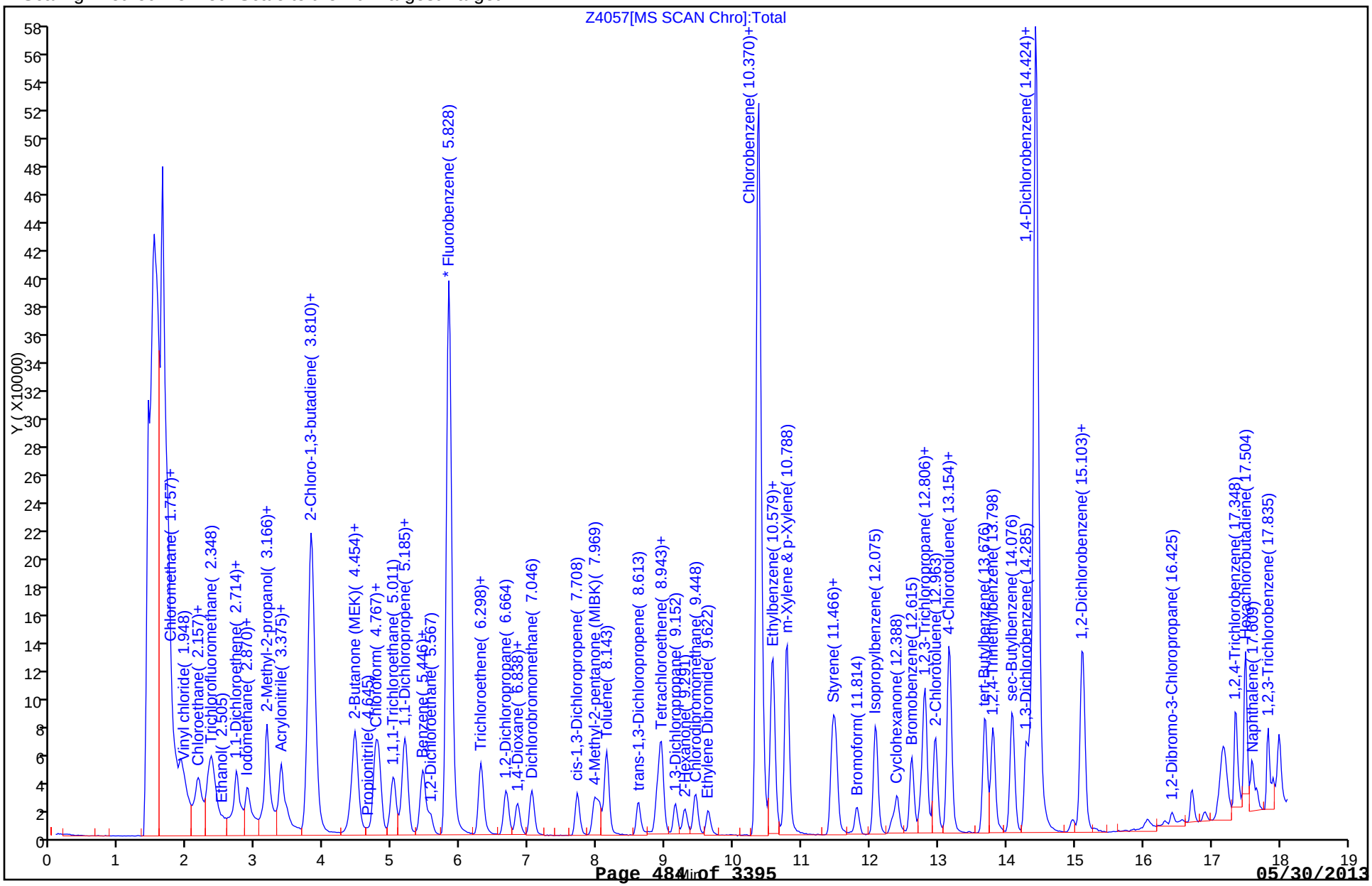
Report Date: 09-May-2013 06:27:26 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4057.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 19:41:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 32 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4058.D
Lims ID: std02 Client ID:
Inject. Date: 08-May-2013 20:04:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: std02
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 5
Lims Batch ID: 173382 Lims Sample ID: 33
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:27 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: tinkhams Date: 08-May-2013 23:14:27

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.830 | 5.841 | -0.011 | 98 | 1085927 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.371 | 10.365 | 0.006 | 89 | 224677 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.425 | 14.437 | -0.012 | 97 | 411160 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.758 | 1.769 | -0.011 | 89 | 117600 | 2.03 | |
| 25 Chloromethane | 50 | 1.845 | 1.856 | -0.011 | 96 | 99253 | 2.17 | |
| 28 Vinyl chloride | 62 | 1.949 | 1.960 | -0.011 | 96 | 67854 | 2.06 | |
| 30 Bromomethane | 94 | 2.158 | 2.169 | -0.011 | 90 | 77797 | 2.10 | |
| 31 Chloroethane | 64 | 2.193 | 2.204 | -0.011 | 87 | 45701 | 1.99 | |
| 33 Trichlorofluoromethane | 101 | 2.315 | 2.413 | -0.098 | 96 | 164387 | 2.03 | |
| 35 Ethanol | 45 | 2.489 | 2.482 | 0.007 | 88 | 6496 | 85.9 | |
| 41 Acrolein | 56 | 2.680 | 2.691 | -0.011 | 86 | 20210 | 21.6 | |
| 43 1,1-Dichloroethene | 96 | 2.732 | 2.726 | 0.006 | 98 | 63399 | 2.00 | |
| 42 Acetone | 43 | 2.802 | 2.813 | -0.011 | 90 | 25624 | 9.70 | |
| 45 Iodomethane | 142 | 2.889 | 2.883 | 0.007 | 98 | 128852 | 1.98 | |
| 47 Acetonitrile | 41 | 3.167 | 3.178 | -0.011 | 74 | 28076 | 21.3 | |
| 50 Methylene Chloride | 84 | 3.167 | 3.178 | -0.011 | 96 | 99807 | 2.00 | |
| 51 2-Methyl-2-propanol | 59 | 3.237 | 3.248 | -0.011 | 96 | 44792 | 40.9 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.376 | 3.387 | -0.011 | 95 | 76081 | 1.96 | |
| 52 Acrylonitrile | 53 | 3.446 | 3.457 | -0.011 | 97 | 53398 | 19.8 | |
| 58 Isopropyl ether | 87 | 3.811 | 3.822 | -0.011 | 98 | 262848 | 9.72 | |
| 56 1,1-Dichloroethane | 63 | 3.828 | 3.840 | -0.012 | 97 | 134403 | 1.97 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.881 | 3.892 | -0.011 | 89 | 99742 | 2.01 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.455 | 4.466 | -0.011 | 86 | 76358 | 1.98 | |
| 63 2,2-Dichloropropane | 77 | 4.455 | 4.466 | -0.011 | 73 | 121471 | 2.08 | |
| 61 2-Butanone (MEK) | 43 | 4.490 | 4.483 | 0.007 | 84 | 47123 | 8.25 | |
| 64 Propionitrile | 54 | 4.646 | 4.657 | -0.011 | 77 | 19520 | 20.1 | |
| 68 Chlorobromomethane | 128 | 4.751 | 4.744 | 0.007 | 88 | 31922 | 1.95 | |
| 66 Methacrylonitrile | 41 | 4.768 | 4.779 | -0.011 | 94 | 127006 | 19.4 | |
| 69 Chloroform | 83 | 4.820 | 4.814 | 0.006 | 94 | 138580 | 1.98 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 1,1,1-Trichloroethane | 97 | 5.012 | 5.023 | -0.011 | 90 | 138269 | 1.98 | |
| 74 Carbon tetrachloride | 117 | 5.168 | 5.179 | -0.011 | 88 | 129412 | 1.99 | |
| 73 1,1-Dichloropropene | 75 | 5.203 | 5.197 | 0.006 | 95 | 121748 | 2.00 | |
| 75 Isobutyl alcohol | 41 | 5.395 | 5.406 | -0.011 | 69 | 14903 | 30.0 | |
| 77 Benzene | 78 | 5.447 | 5.458 | -0.011 | 93 | 209009 | 1.96 | |
| 76 1,2-Dichloroethane | 62 | 5.569 | 5.562 | 0.007 | 93 | 58110 | 2.00 | |
| 78 n-Butanol | 56 | 6.299 | 6.293 | 0.006 | 29 | 20265 | 63.4 | |
| 80 Trichloroethene | 95 | 6.299 | 6.310 | -0.011 | 94 | 98664 | 1.98 | |
| 83 1,2-Dichloropropane | 63 | 6.665 | 6.676 | -0.011 | 93 | 71891 | 1.94 | |
| 85 Dibromomethane | 93 | 6.839 | 6.832 | 0.007 | 91 | 46739 | 2.00 | |
| 87 1,4-Dioxane | 88 | 6.856 | 6.850 | 0.006 | 10 | 10175 | 87.9 | |
| 88 Dichlorobromomethane | 83 | 7.048 | 7.059 | -0.011 | 96 | 119439 | 1.95 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.709 | 7.720 | -0.011 | 82 | 98945 | 2.01 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.970 | 7.981 | -0.011 | 95 | 138044 | 8.25 | |
| 93 Toluene | 91 | 8.144 | 8.155 | -0.011 | 97 | 251365 | 1.98 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.614 | 8.607 | 0.007 | 93 | 72914 | 1.99 | |
| 96 1,1,2-Trichloroethane | 97 | 8.875 | 8.886 | -0.011 | 90 | 48126 | 1.99 | |
| 97 Tetrachloroethene | 164 | 8.944 | 8.938 | 0.006 | 98 | 88464 | 2.04 | |
| 98 1,3-Dichloropropane | 76 | 9.153 | 9.147 | 0.006 | 89 | 74140 | 2.01 | |
| 99 2-Hexanone | 43 | 9.292 | 9.286 | 0.006 | 94 | 84141 | 8.08 | |
| 100 Chlorodibromomethane | 129 | 9.449 | 9.443 | 0.006 | 86 | 79509 | 2.00 | |
| 102 Ethylene Dibromide | 107 | 9.623 | 9.634 | -0.011 | 96 | 61769 | 2.02 | |
| 104 1-Chlorohexane | 91 | 10.389 | 10.400 | -0.011 | 90 | 117759 | 1.96 | |
| 103 Chlorobenzene | 112 | 10.406 | 10.417 | -0.011 | 88 | 169812 | 2.02 | |
| 106 Ethylbenzene | 106 | 10.580 | 10.574 | 0.006 | 99 | 86442 | 2.02 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.580 | 10.574 | 0.006 | 88 | 78045 | 2.00 | |
| 107 m-Xylene & p-Xylene | 106 | 10.789 | 10.782 | 0.007 | 0 | 223276 | 4.01 | |
| 108 o-Xylene | 106 | 11.450 | 11.461 | -0.011 | 97 | 103832 | 2.05 | |
| 109 Styrene | 104 | 11.502 | 11.496 | 0.006 | 93 | 159585 | 1.98 | |
| 110 Bromoform | 173 | 11.815 | 11.809 | 0.006 | 92 | 52441 | 2.00 | |
| 111 Isopropylbenzene | 105 | 12.076 | 12.087 | -0.011 | 95 | 333199 | 2.00 | |
| 112 Cyclohexanone | 55 | 12.337 | 12.331 | 0.006 | 84 | 37889 | 80.4 | |
| 114 Bromobenzene | 156 | 12.616 | 12.609 | 0.007 | 94 | 82812 | 1.98 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.755 | 12.749 | 0.006 | 84 | 63148 | 2.01 | |
| 118 N-Propylbenzene | 120 | 12.807 | 12.801 | 0.006 | 98 | 80656 | 2.02 | |
| 116 1,2,3-Trichloropropane | 110 | 12.807 | 12.818 | -0.011 | 39 | 14484 | 1.99 | |
| 119 2-Chlorotoluene | 126 | 12.964 | 12.957 | 0.007 | 94 | 67769 | 2.02 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.155 | 13.149 | 0.006 | 94 | 252231 | 2.00 | |
| 120 4-Chlorotoluene | 126 | 13.173 | 13.166 | 0.007 | 98 | 71474 | 2.01 | |
| 122 tert-Butylbenzene | 119 | 13.695 | 13.688 | 0.007 | 82 | 241928 | 2.02 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.799 | 13.810 | -0.011 | 76 | 244959 | 1.99 | |
| 124 sec-Butylbenzene | 134 | 14.095 | 14.089 | 0.006 | 93 | 71218 | 2.03 | |
| 125 1,3-Dichlorobenzene | 146 | 14.286 | 14.297 | -0.011 | 89 | 145346 | 2.00 | |
| 126 4-Isopropyltoluene | 119 | 14.373 | 14.367 | 0.006 | 94 | 302157 | 1.99 | |
| 127 1,4-Dichlorobenzene | 146 | 14.478 | 14.471 | 0.007 | 88 | 152558 | 1.99 | |
| 130 n-Butylbenzene | 91 | 15.104 | 15.098 | 0.006 | 95 | 325027 | 2.01 | |
| 129 1,2-Dichlorobenzene | 146 | 15.139 | 15.133 | 0.006 | 96 | 125999 | 2.02 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.427 | 16.438 | -0.011 | 59 | 12036 | 1.98 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.366 | 17.360 | 0.006 | 93 | 102095 | 2.02 | |
| 133 Hexachlorobutadiene | 225 | 17.505 | 17.499 | 0.006 | 97 | 90691 | 2.03 | |
| 134 Naphthalene | 128 | 17.592 | 17.603 | -0.011 | 96 | 102963 | 2.01 | |
| 135 1,2,3-Trichlorobenzene | 180 | 17.836 | 17.830 | 0.006 | 95 | 82475 | 2.04 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 3.94 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 6.06 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 3.94 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 4.00 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 7.93 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 6.06 | |
| S 138 Total BTEX | 1 | | | | 0 | | 12.0 | |

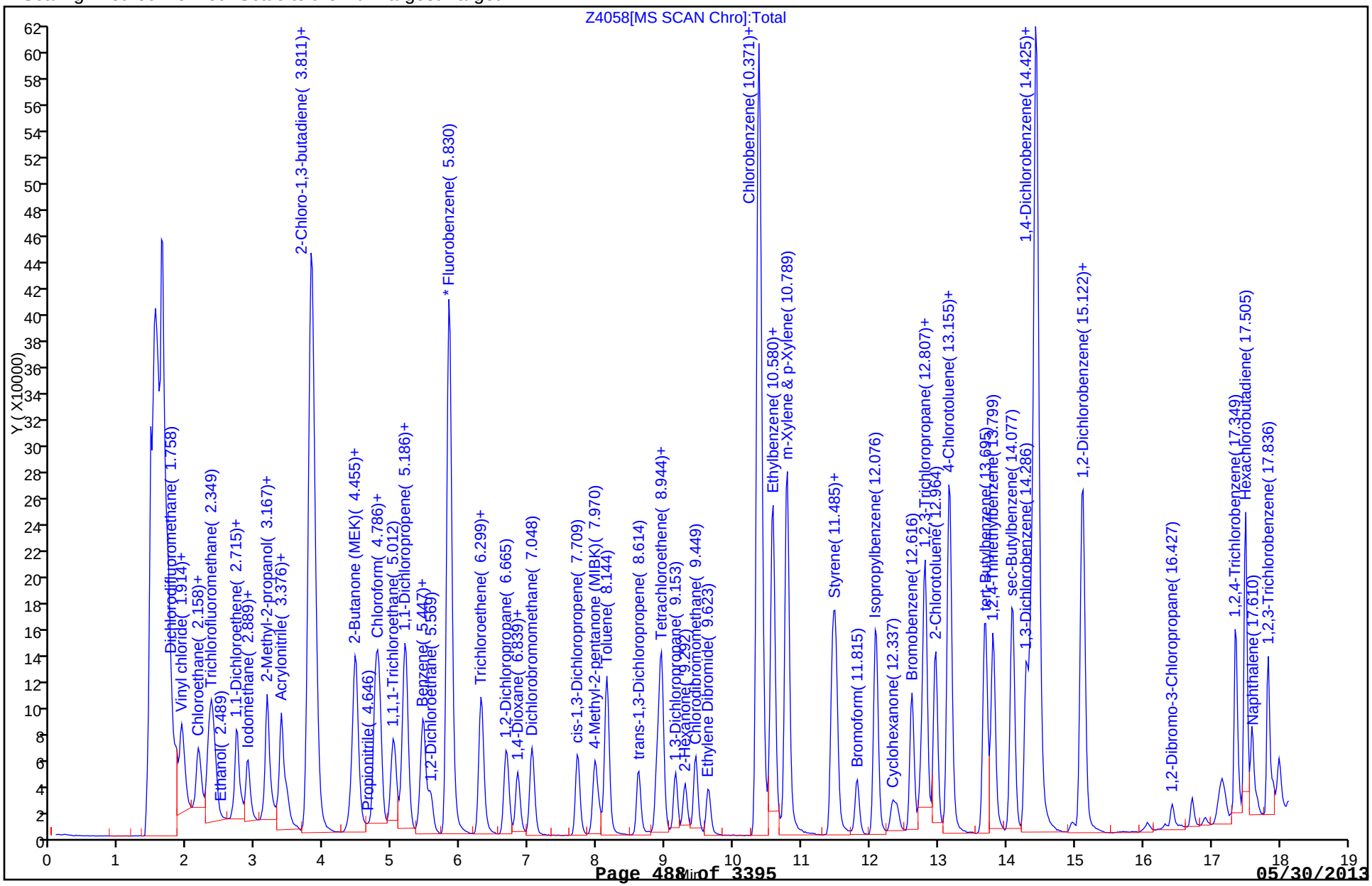
Report Date: 09-May-2013 06:27:27 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4058.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 20:04:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 33 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4059.D
Lims ID: std05 Client ID:
Inject. Date: 08-May-2013 20:26:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: std05
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 6
Lims Batch ID: 173382 Lims Sample ID: 34
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:28 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: tinkhams Date: 08-May-2013 23:14:51

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.826 | 5.841 | -0.015 | 98 | 1106480 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.368 | 10.365 | 0.003 | 89 | 233192 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.422 | 14.437 | -0.015 | 97 | 416401 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.755 | 1.769 | -0.014 | 98 | 296865 | 5.04 | |
| 25 Chloromethane | 50 | 1.842 | 1.856 | -0.014 | 96 | 233174 | 4.99 | |
| 28 Vinyl chloride | 62 | 1.946 | 1.960 | -0.014 | 96 | 161329 | 4.80 | |
| 30 Bromomethane | 94 | 2.155 | 2.169 | -0.014 | 88 | 184031 | 4.89 | |
| 31 Chloroethane | 64 | 2.190 | 2.204 | -0.014 | 88 | 112269 | 4.79 | |
| 33 Trichlorofluoromethane | 101 | 2.398 | 2.413 | -0.015 | 98 | 402353 | 4.87 | |
| 35 Ethanol | 45 | 2.503 | 2.482 | 0.021 | 77 | 22101 | 286.9 | |
| 41 Acrolein | 56 | 2.677 | 2.691 | -0.014 | 76 | 44606 | 46.7 | |
| 43 1,1-Dichloroethene | 96 | 2.729 | 2.726 | 0.003 | 98 | 162252 | 5.02 | |
| 42 Acetone | 43 | 2.799 | 2.813 | -0.014 | 95 | 56106 | 20.8 | |
| 45 Iodomethane | 142 | 2.886 | 2.883 | 0.004 | 99 | 332590 | 5.02 | |
| 47 Acetonitrile | 41 | 3.164 | 3.178 | -0.014 | 92 | 66193 | 49.2 | |
| 50 Methylene Chloride | 84 | 3.164 | 3.178 | -0.014 | 96 | 188082 | 5.00 | |
| 51 2-Methyl-2-propanol | 59 | 3.251 | 3.248 | 0.003 | 97 | 110921 | 99.4 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.373 | 3.387 | -0.014 | 95 | 197027 | 4.99 | |
| 52 Acrylonitrile | 53 | 3.460 | 3.457 | 0.003 | 97 | 134388 | 48.8 | |
| 58 Isopropyl ether | 87 | 3.808 | 3.822 | -0.014 | 98 | 681169 | 24.7 | |
| 56 1,1-Dichloroethane | 63 | 3.825 | 3.840 | -0.015 | 96 | 343771 | 4.95 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.877 | 3.892 | -0.015 | 89 | 248476 | 4.91 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.469 | 4.466 | 0.003 | 86 | 196978 | 5.01 | |
| 63 2,2-Dichloropropane | 77 | 4.452 | 4.466 | -0.014 | 85 | 297094 | 4.98 | |
| 61 2-Butanone (MEK) | 43 | 4.486 | 4.483 | 0.003 | 94 | 109768 | 18.9 | |
| 64 Propionitrile | 54 | 4.643 | 4.657 | -0.014 | 77 | 49107 | 49.7 | |
| 68 Chlorobromomethane | 128 | 4.748 | 4.744 | 0.004 | 88 | 82948 | 4.97 | |
| 66 Methacrylonitrile | 41 | 4.765 | 4.779 | -0.014 | 94 | 332127 | 49.8 | |
| 69 Chloroform | 83 | 4.817 | 4.814 | 0.003 | 95 | 352137 | 4.94 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 1,1,1-Trichloroethane | 97 | 5.026 | 5.023 | 0.003 | 91 | 355408 | 4.99 | |
| 74 Carbon tetrachloride | 117 | 5.183 | 5.179 | 0.004 | 90 | 326829 | 4.93 | |
| 73 1,1-Dichloropropene | 75 | 5.200 | 5.197 | 0.003 | 96 | 302591 | 4.87 | |
| 75 Isobutyl alcohol | 41 | 5.391 | 5.406 | -0.015 | 83 | 36791 | 84.8 | |
| 77 Benzene | 78 | 5.461 | 5.458 | 0.003 | 90 | 534877 | 4.93 | |
| 76 1,2-Dichloroethane | 62 | 5.565 | 5.562 | 0.003 | 94 | 148059 | 5.00 | |
| 78 n-Butanol | 56 | 6.296 | 6.293 | 0.003 | 28 | 47219 | 145.0 | |
| 80 Trichloroethene | 95 | 6.296 | 6.310 | -0.014 | 96 | 249560 | 4.91 | |
| 83 1,2-Dichloropropane | 63 | 6.679 | 6.676 | 0.003 | 94 | 189027 | 5.01 | |
| 85 Dibromomethane | 93 | 6.836 | 6.832 | 0.004 | 92 | 118359 | 4.98 | |
| 87 1,4-Dioxane | 88 | 6.853 | 6.850 | 0.003 | 50 | 28565 | 242.1 | |
| 88 Dichlorobromomethane | 83 | 7.044 | 7.059 | -0.015 | 98 | 309510 | 4.97 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.723 | 7.720 | 0.003 | 90 | 252202 | 4.94 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.967 | 7.981 | -0.014 | 97 | 331217 | 19.4 | |
| 93 Toluene | 91 | 8.141 | 8.155 | -0.014 | 98 | 643251 | 4.97 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.610 | 8.607 | 0.003 | 95 | 189662 | 5.07 | |
| 96 1,1,2-Trichloroethane | 97 | 8.889 | 8.886 | 0.003 | 93 | 121691 | 4.93 | |
| 97 Tetrachloroethene | 164 | 8.941 | 8.938 | 0.003 | 98 | 224331 | 4.98 | |
| 98 1,3-Dichloropropane | 76 | 9.150 | 9.147 | 0.003 | 91 | 189773 | 4.96 | |
| 99 2-Hexanone | 43 | 9.289 | 9.286 | 0.003 | 98 | 228294 | 21.1 | |
| 100 Chlorodibromomethane | 129 | 9.446 | 9.443 | 0.003 | 89 | 208196 | 5.04 | |
| 102 Ethylene Dibromide | 107 | 9.620 | 9.634 | -0.014 | 97 | 156767 | 4.93 | |
| 104 1-Chlorohexane | 91 | 10.385 | 10.400 | -0.015 | 95 | 298231 | 4.79 | |
| 103 Chlorobenzene | 112 | 10.403 | 10.417 | -0.014 | 91 | 432898 | 4.96 | |
| 106 Ethylbenzene | 106 | 10.577 | 10.574 | 0.003 | 99 | 220531 | 4.96 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.577 | 10.574 | 0.003 | 49 | 201914 | 4.99 | |
| 107 m-Xylene & p-Xylene | 106 | 10.786 | 10.782 | 0.004 | 0 | 579740 | 10.0 | |
| 108 o-Xylene | 106 | 11.447 | 11.461 | -0.014 | 97 | 261514 | 4.97 | |
| 109 Styrene | 104 | 11.499 | 11.496 | 0.003 | 94 | 421655 | 5.04 | |
| 110 Bromoform | 173 | 11.812 | 11.809 | 0.003 | 94 | 136104 | 5.01 | |
| 111 Isopropylbenzene | 105 | 12.091 | 12.087 | 0.004 | 95 | 852155 | 5.04 | |
| 112 Cyclohexanone | 55 | 12.334 | 12.331 | 0.003 | 91 | 94206 | 192.6 | |
| 114 Bromobenzene | 156 | 12.613 | 12.609 | 0.004 | 96 | 214228 | 5.05 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.752 | 12.749 | 0.003 | 93 | 160324 | 5.05 | |
| 118 N-Propylbenzene | 120 | 12.804 | 12.801 | 0.003 | 98 | 202204 | 5.01 | |
| 116 1,2,3-Trichloropropane | 110 | 12.804 | 12.818 | -0.014 | 47 | 36644 | 4.98 | |
| 119 2-Chlorotoluene | 126 | 12.961 | 12.957 | 0.004 | 95 | 171030 | 5.04 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.152 | 13.149 | 0.003 | 87 | 645575 | 5.04 | |
| 120 4-Chlorotoluene | 126 | 13.169 | 13.166 | 0.003 | 98 | 184591 | 5.12 | |
| 122 tert-Butylbenzene | 119 | 13.691 | 13.688 | 0.003 | 88 | 682619 | 5.63 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.796 | 13.810 | -0.014 | 98 | 628298 | 5.04 | |
| 124 sec-Butylbenzene | 134 | 14.092 | 14.089 | 0.003 | 95 | 180395 | 5.07 | |
| 125 1,3-Dichlorobenzene | 146 | 14.283 | 14.297 | -0.014 | 96 | 369616 | 5.01 | |
| 126 4-Isopropyltoluene | 119 | 14.370 | 14.367 | 0.003 | 95 | 762149 | 4.95 | |
| 127 1,4-Dichlorobenzene | 146 | 14.474 | 14.471 | 0.003 | 91 | 393835 | 5.08 | |
| 130 n-Butylbenzene | 91 | 15.101 | 15.098 | 0.003 | 95 | 811853 | 4.97 | |
| 129 1,2-Dichlorobenzene | 146 | 15.136 | 15.133 | 0.003 | 96 | 317208 | 5.01 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.423 | 16.438 | -0.015 | 70 | 30925 | 5.01 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.363 | 17.360 | 0.003 | 94 | 261625 | 5.11 | |
| 133 Hexachlorobutadiene | 225 | 17.502 | 17.499 | 0.003 | 97 | 227086 | 5.03 | |
| 134 Naphthalene | 128 | 17.589 | 17.603 | -0.014 | 97 | 246560 | 4.75 | |
| 135 1,2,3-Trichlorobenzene | 180 | 17.833 | 17.830 | 0.003 | 95 | 199714 | 4.87 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 10.0 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 15.0 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 10.0 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 10.0 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 20.0 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 15.0 | |
| S 138 Total BTEX | 1 | | | | 0 | | 29.9 | |

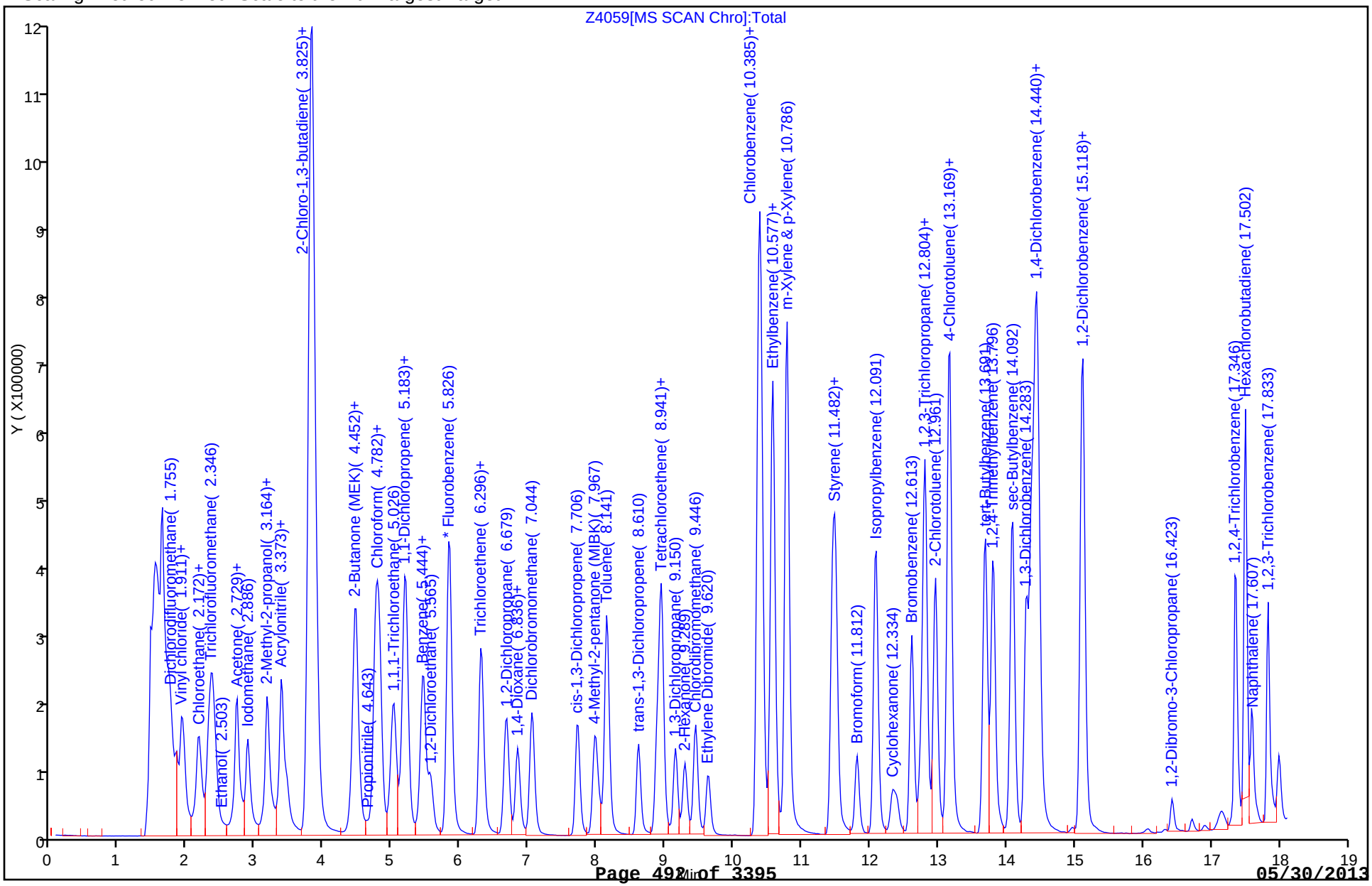
Report Date: 09-May-2013 06:27:29 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4059.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 20:26:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 34 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4060.D | | |
| Lims ID: | std10 | Client ID: | |
| Inject. Date: | 08-May-2013 20:48:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | std10 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 7 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 35 |
| Sublist: | chrom-AQ_VMSZ_8260*sub6 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:30 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: tinkhams | | Date: | 08-May-2013 23:15:35 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.841 | 0.0 | 98 | 1110515 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 232630 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 96 | 422543 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.769 | 1.769 | 0.0 | 91 | 599181 | 10.1 | |
| 25 Chloromethane | 50 | 1.856 | 1.856 | 0.0 | 99 | 480743 | 10.3 | |
| 28 Vinyl chloride | 62 | 1.960 | 1.960 | 0.0 | 99 | 328329 | 9.73 | |
| 30 Bromomethane | 94 | 2.169 | 2.169 | 0.0 | 90 | 362078 | 9.58 | |
| 31 Chloroethane | 64 | 2.204 | 2.204 | 0.0 | 99 | 223512 | 9.51 | |
| 33 Trichlorofluoromethane | 101 | 2.413 | 2.413 | 0.0 | 99 | 808709 | 9.75 | |
| 35 Ethanol | 45 | 2.482 | 2.482 | 0.0 | 76 | 40093 | 518.6 | |
| 41 Acrolein | 56 | 2.691 | 2.691 | 0.0 | 91 | 89777 | 93.6 | |
| 43 1,1-Dichloroethene | 96 | 2.726 | 2.726 | 0.0 | 97 | 314835 | 9.71 | |
| 42 Acetone | 43 | 2.813 | 2.813 | 0.0 | 94 | 101477 | 37.6 | |
| 45 Iodomethane | 142 | 2.883 | 2.883 | 0.0 | 99 | 646386 | 9.72 | |
| 47 Acetonitrile | 41 | 3.178 | 3.178 | 0.0 | 96 | 129204 | 95.8 | |
| 50 Methylene Chloride | 84 | 3.178 | 3.178 | 0.0 | 96 | 328487 | 9.83 | |
| 51 2-Methyl-2-propanol | 59 | 3.248 | 3.248 | 0.0 | 100 | 218328 | 195.0 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.387 | 3.387 | 0.0 | 97 | 381684 | 9.64 | |
| 52 Acrylonitrile | 53 | 3.457 | 3.457 | 0.0 | 97 | 267142 | 96.6 | |
| 58 Isopropyl ether | 87 | 3.822 | 3.822 | 0.0 | 98 | 1356176 | 49.0 | |
| 56 1,1-Dichloroethane | 63 | 3.840 | 3.840 | 0.0 | 97 | 673503 | 9.67 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.892 | 3.892 | 0.0 | 89 | 487173 | 9.59 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.466 | 4.466 | 0.0 | 86 | 387969 | 9.82 | |
| 63 2,2-Dichloropropane | 77 | 4.466 | 4.466 | 0.0 | 85 | 571574 | 9.55 | |
| 61 2-Butanone (MEK) | 43 | 4.483 | 4.483 | 0.0 | 97 | 218832 | 37.5 | |
| 64 Propionitrile | 54 | 4.657 | 4.657 | 0.0 | 77 | 101094 | 101.9 | |
| 68 Chlorobromomethane | 128 | 4.744 | 4.744 | 0.0 | 89 | 166715 | 9.94 | |
| 66 Methacrylonitrile | 41 | 4.779 | 4.779 | 0.0 | 95 | 658652 | 98.4 | |
| 69 Chloroform | 83 | 4.814 | 4.814 | 0.0 | 95 | 692469 | 9.67 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 1,1,1-Trichloroethane | 97 | 5.023 | 5.023 | 0.0 | 83 | 688106 | 9.62 | |
| 74 Carbon tetrachloride | 117 | 5.179 | 5.179 | 0.0 | 88 | 632716 | 9.51 | |
| 73 1,1-Dichloropropene | 75 | 5.197 | 5.197 | 0.0 | 96 | 585667 | 9.40 | |
| 75 Isobutyl alcohol | 41 | 5.406 | 5.406 | 0.0 | 88 | 81734 | 197.9 | |
| 77 Benzene | 78 | 5.458 | 5.458 | 0.0 | 94 | 1054802 | 9.69 | |
| 76 1,2-Dichloroethane | 62 | 5.562 | 5.562 | 0.0 | 95 | 294584 | 9.91 | |
| 78 n-Butanol | 56 | 6.293 | 6.293 | 0.0 | 90 | 93844 | 287.1 | |
| 80 Trichloroethene | 95 | 6.310 | 6.310 | 0.0 | 98 | 482802 | 9.47 | |
| 83 1,2-Dichloropropane | 63 | 6.676 | 6.676 | 0.0 | 94 | 372143 | 9.82 | |
| 85 Dibromomethane | 93 | 6.832 | 6.832 | 0.0 | 92 | 234276 | 9.81 | |
| 87 1,4-Dioxane | 88 | 6.850 | 6.850 | 0.0 | 71 | 60930 | 514.5 | |
| 88 Dichlorobromomethane | 83 | 7.059 | 7.059 | 0.0 | 99 | 615141 | 9.84 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.720 | 7.720 | 0.0 | 90 | 504140 | 9.89 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.981 | 7.981 | 0.0 | 97 | 662547 | 38.7 | |
| 93 Toluene | 91 | 8.155 | 8.155 | 0.0 | 98 | 1240854 | 9.55 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.607 | 8.607 | 0.0 | 95 | 374849 | 10.0 | |
| 96 1,1,2-Trichloroethane | 97 | 8.886 | 8.886 | 0.0 | 92 | 243427 | 9.82 | |
| 97 Tetrachloroethene | 164 | 8.938 | 8.938 | 0.0 | 94 | 430465 | 9.57 | |
| 98 1,3-Dichloropropane | 76 | 9.147 | 9.147 | 0.0 | 91 | 380115 | 9.95 | |
| 99 2-Hexanone | 43 | 9.286 | 9.286 | 0.0 | 97 | 433704 | 40.2 | |
| 100 Chlorodibromomethane | 129 | 9.443 | 9.443 | 0.0 | 90 | 417410 | 10.1 | |
| 102 Ethylene Dibromide | 107 | 9.634 | 9.634 | 0.0 | 98 | 314017 | 9.90 | |
| 104 1-Chlorohexane | 91 | 10.400 | 10.400 | 0.0 | 95 | 560475 | 9.03 | |
| 103 Chlorobenzene | 112 | 10.417 | 10.417 | 0.0 | 90 | 846279 | 9.72 | |
| 106 Ethylbenzene | 106 | 10.574 | 10.574 | 0.0 | 99 | 420221 | 9.48 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.574 | 10.574 | 0.0 | 95 | 398836 | 9.87 | |
| 107 m-Xylene & p-Xylene | 106 | 10.782 | 10.782 | 0.0 | 0 | 1106351 | 19.2 | |
| 108 o-Xylene | 106 | 11.461 | 11.461 | 0.0 | 96 | 506448 | 9.65 | |
| 109 Styrene | 104 | 11.496 | 11.496 | 0.0 | 95 | 820698 | 9.84 | |
| 110 Bromoform | 173 | 11.809 | 11.809 | 0.0 | 95 | 276747 | 10.2 | |
| 111 Isopropylbenzene | 105 | 12.087 | 12.087 | 0.0 | 96 | 1590377 | 9.28 | |
| 112 Cyclohexanone | 55 | 12.331 | 12.331 | 0.0 | 93 | 188093 | 385.4 | |
| 114 Bromobenzene | 156 | 12.609 | 12.609 | 0.0 | 96 | 415354 | 9.64 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.749 | 12.749 | 0.0 | 91 | 308937 | 9.58 | |
| 118 N-Propylbenzene | 120 | 12.801 | 12.801 | 0.0 | 98 | 381763 | 9.33 | |
| 116 1,2,3-Trichloropropane | 110 | 12.818 | 12.818 | 0.0 | 49 | 74415 | 9.97 | |
| 119 2-Chlorotoluene | 126 | 12.957 | 12.957 | 0.0 | 95 | 323684 | 9.40 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.149 | 13.149 | 0.0 | 87 | 1223017 | 9.42 | |
| 120 4-Chlorotoluene | 126 | 13.166 | 13.166 | 0.0 | 98 | 344404 | 9.41 | |
| 122 tert-Butylbenzene | 119 | 13.688 | 13.688 | 0.0 | 90 | 1130521 | 9.20 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.810 | 13.810 | 0.0 | 73 | 1182562 | 9.34 | |
| 124 sec-Butylbenzene | 134 | 14.089 | 14.089 | 0.0 | 95 | 335423 | 9.29 | |
| 125 1,3-Dichlorobenzene | 146 | 14.297 | 14.297 | 0.0 | 90 | 699920 | 9.35 | |
| 126 4-Isopropyltoluene | 119 | 14.367 | 14.367 | 0.0 | 97 | 1415194 | 9.05 | |
| 127 1,4-Dichlorobenzene | 146 | 14.471 | 14.471 | 0.0 | 90 | 744500 | 9.47 | |
| 130 n-Butylbenzene | 91 | 15.098 | 15.098 | 0.0 | 95 | 1503857 | 9.07 | |
| 129 1,2-Dichlorobenzene | 146 | 15.133 | 15.133 | 0.0 | 97 | 613786 | 9.55 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.438 | 16.438 | 0.0 | 80 | 63250 | 10.1 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.360 | 17.360 | 0.0 | 94 | 499285 | 9.60 | |
| 133 Hexachlorobutadiene | 225 | 17.499 | 17.499 | 0.0 | 95 | 423400 | 9.24 | |
| 134 Naphthalene | 128 | 17.603 | 17.603 | 0.0 | 97 | 488030 | 9.26 | |
| 135 1,2,3-Trichlorobenzene | 180 | 17.830 | 17.830 | 0.0 | 95 | 388307 | 9.33 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.5 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 28.8 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 19.5 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 19.9 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 39.8 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 28.8 | |
| S 138 Total BTEX | 1 | | | | 0 | | 57.6 | |

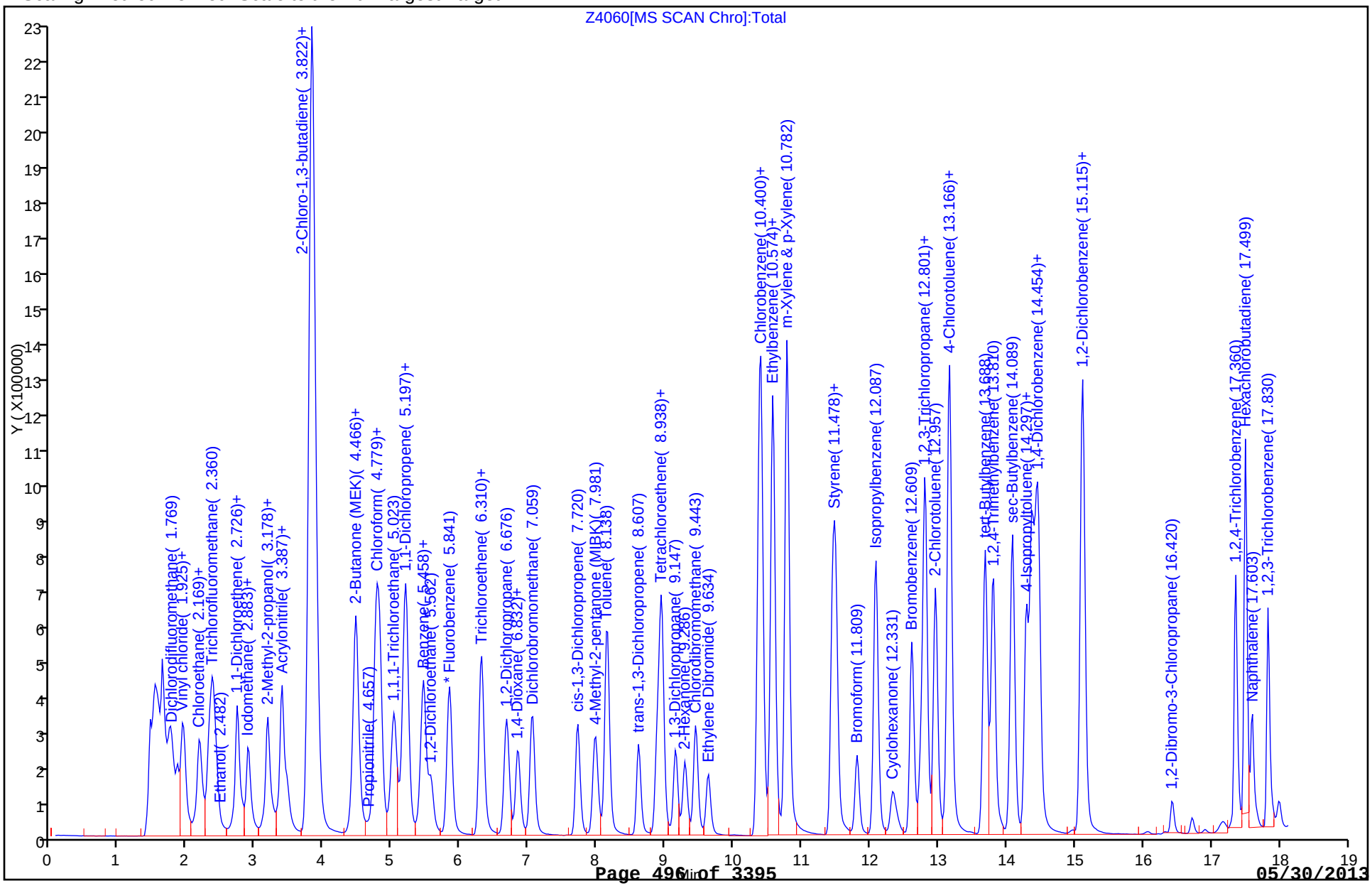
Report Date: 09-May-2013 06:27:30 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4060.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 20:48:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 35 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4061.D
Lims ID: std30 Client ID:
Inject. Date: 08-May-2013 21:11:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: std30
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 8
Lims Batch ID: 173382 Lims Sample ID: 36
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:31 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: tinkhams Date: 08-May-2013 23:16:06

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.841 | 0.0 | 98 | 1130870 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 86 | 240514 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 95 | 428093 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.769 | 1.769 | 0.0 | 92 | 1877042 | 31.2 | |
| 25 Chloromethane | 50 | 1.856 | 1.856 | 0.0 | 97 | 1297051 | 27.2 | |
| 28 Vinyl chloride | 62 | 1.960 | 1.960 | 0.0 | 97 | 1037380 | 30.2 | |
| 30 Bromomethane | 94 | 2.169 | 2.169 | 0.0 | 90 | 1115125 | 29.0 | |
| 31 Chloroethane | 64 | 2.204 | 2.204 | 0.0 | 95 | 687422 | 28.7 | |
| 33 Trichlorofluoromethane | 101 | 2.395 | 2.413 | -0.018 | 99 | 2535047 | 30.0 | |
| 35 Ethanol | 45 | 2.482 | 2.482 | 0.0 | 77 | 119371 | 1516.4 | |
| 41 Acrolein | 56 | 2.691 | 2.691 | 0.0 | 91 | 264060 | 270.4 | |
| 43 1,1-Dichloroethene | 96 | 2.726 | 2.726 | 0.0 | 97 | 1015972 | 30.8 | |
| 42 Acetone | 43 | 2.813 | 2.813 | 0.0 | 90 | 300992 | 109.4 | |
| 45 Iodomethane | 142 | 2.883 | 2.883 | 0.0 | 99 | 2045150 | 30.2 | |
| 47 Acetonitrile | 41 | 3.178 | 3.178 | 0.0 | 83 | 393370 | 286.3 | |
| 50 Methylene Chloride | 84 | 3.178 | 3.178 | 0.0 | 96 | 933551 | 30.2 | |
| 51 2-Methyl-2-propanol | 59 | 3.265 | 3.248 | 0.017 | 96 | 679025 | 595.6 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.387 | 3.387 | 0.0 | 95 | 1207293 | 29.9 | |
| 52 Acrylonitrile | 53 | 3.457 | 3.457 | 0.0 | 99 | 811043 | 288.1 | |
| 58 Isopropyl ether | 87 | 3.822 | 3.822 | 0.0 | 98 | 4315321 | 153.2 | |
| 56 1,1-Dichloroethane | 63 | 3.840 | 3.840 | 0.0 | 97 | 2150539 | 30.3 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.892 | 3.892 | 0.0 | 90 | 1612634 | 31.2 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.466 | 4.466 | 0.0 | 86 | 1211870 | 30.1 | |
| 63 2,2-Dichloropropane | 77 | 4.466 | 4.466 | 0.0 | 88 | 1792217 | 29.4 | |
| 61 2-Butanone (MEK) | 43 | 4.501 | 4.483 | 0.018 | 99 | 660178 | 111.0 | |
| 64 Propionitrile | 54 | 4.657 | 4.657 | 0.0 | 64 | 306804 | 303.7 | |
| 68 Chlorobromomethane | 128 | 4.744 | 4.744 | 0.0 | 92 | 523171 | 30.6 | |
| 66 Methacrylonitrile | 41 | 4.779 | 4.779 | 0.0 | 94 | 2086378 | 306.2 | |
| 69 Chloroform | 83 | 4.814 | 4.814 | 0.0 | 95 | 2190769 | 30.1 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 1,1,1-Trichloroethane | 97 | 5.023 | 5.023 | 0.0 | 79 | 2223809 | 30.5 | |
| 74 Carbon tetrachloride | 117 | 5.179 | 5.179 | 0.0 | 91 | 2115496 | 31.2 | |
| 73 1,1-Dichloropropene | 75 | 5.214 | 5.197 | 0.017 | 96 | 1943581 | 30.6 | |
| 75 Isobutyl alcohol | 41 | 5.406 | 5.406 | 0.0 | 88 | 249869 | 611.0 | |
| 77 Benzene | 78 | 5.458 | 5.458 | 0.0 | 94 | 3351787 | 30.2 | |
| 76 1,2-Dichloroethane | 62 | 5.562 | 5.562 | 0.0 | 96 | 912505 | 30.2 | |
| 78 n-Butanol | 56 | 6.293 | 6.293 | 0.0 | 90 | 298696 | 897.4 | |
| 80 Trichloroethene | 95 | 6.310 | 6.310 | 0.0 | 96 | 1578716 | 30.4 | |
| 83 1,2-Dichloropropane | 63 | 6.676 | 6.676 | 0.0 | 96 | 1166845 | 30.2 | |
| 85 Dibromomethane | 93 | 6.832 | 6.832 | 0.0 | 91 | 730267 | 30.0 | |
| 87 1,4-Dioxane | 88 | 6.850 | 6.850 | 0.0 | 48 | 189367 | 1570.3 | |
| 88 Dichlorobromomethane | 83 | 7.059 | 7.059 | 0.0 | 99 | 1947998 | 30.6 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.720 | 7.720 | 0.0 | 89 | 1598426 | 30.3 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.981 | 7.981 | 0.0 | 97 | 2068336 | 118.7 | |
| 93 Toluene | 91 | 8.155 | 8.155 | 0.0 | 98 | 4031387 | 30.5 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.607 | 8.607 | 0.0 | 95 | 1164713 | 30.5 | |
| 96 1,1,2-Trichloroethane | 97 | 8.886 | 8.886 | 0.0 | 93 | 762698 | 30.2 | |
| 97 Tetrachloroethene | 164 | 8.955 | 8.938 | 0.017 | 98 | 1440691 | 31.0 | |
| 98 1,3-Dichloropropane | 76 | 9.147 | 9.147 | 0.0 | 91 | 1191100 | 30.2 | |
| 99 2-Hexanone | 43 | 9.286 | 9.286 | 0.0 | 97 | 1343130 | 120.4 | |
| 100 Chlorodibromomethane | 129 | 9.443 | 9.443 | 0.0 | 90 | 1315722 | 30.9 | |
| 102 Ethylene Dibromide | 107 | 9.634 | 9.634 | 0.0 | 98 | 995198 | 30.4 | |
| 104 1-Chlorohexane | 91 | 10.400 | 10.400 | 0.0 | 98 | 1890959 | 29.5 | |
| 103 Chlorobenzene | 112 | 10.417 | 10.417 | 0.0 | 91 | 2749592 | 30.5 | |
| 106 Ethylbenzene | 106 | 10.574 | 10.574 | 0.0 | 99 | 1414554 | 30.9 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.591 | 10.574 | 0.017 | 96 | 1281275 | 30.7 | |
| 107 m-Xylene & p-Xylene | 106 | 10.782 | 10.782 | 0.0 | 0 | 3658117 | 61.4 | |
| 108 o-Xylene | 106 | 11.461 | 11.461 | 0.0 | 96 | 1650999 | 30.4 | |
| 109 Styrene | 104 | 11.496 | 11.496 | 0.0 | 95 | 2674366 | 31.0 | |
| 110 Bromoform | 173 | 11.809 | 11.809 | 0.0 | 94 | 879652 | 31.4 | |
| 111 Isopropylbenzene | 105 | 12.087 | 12.087 | 0.0 | 96 | 5302217 | 30.5 | |
| 112 Cyclohexanone | 55 | 12.331 | 12.331 | 0.0 | 93 | 578698 | 1146.9 | |
| 114 Bromobenzene | 156 | 12.627 | 12.609 | 0.018 | 96 | 1333912 | 30.6 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.749 | 12.749 | 0.0 | 93 | 960381 | 29.4 | |
| 118 N-Propylbenzene | 120 | 12.818 | 12.801 | 0.017 | 98 | 1272522 | 30.7 | |
| 116 1,2,3-Trichloropropane | 110 | 12.818 | 12.818 | 0.0 | 48 | 229509 | 30.3 | |
| 119 2-Chlorotoluene | 126 | 12.957 | 12.957 | 0.0 | 95 | 1064636 | 30.5 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.149 | 13.149 | 0.0 | 92 | 4077270 | 31.0 | |
| 120 4-Chlorotoluene | 126 | 13.184 | 13.166 | 0.018 | 98 | 1135919 | 30.6 | |
| 122 tert-Butylbenzene | 119 | 13.688 | 13.688 | 0.0 | 90 | 3759642 | 30.2 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.810 | 13.810 | 0.0 | 98 | 3961655 | 30.9 | |
| 124 sec-Butylbenzene | 134 | 14.089 | 14.089 | 0.0 | 95 | 1117880 | 30.6 | |
| 125 1,3-Dichlorobenzene | 146 | 14.297 | 14.297 | 0.0 | 90 | 2299005 | 30.3 | |
| 126 4-Isopropyltoluene | 119 | 14.367 | 14.367 | 0.0 | 96 | 4810570 | 30.4 | |
| 127 1,4-Dichlorobenzene | 146 | 14.471 | 14.471 | 0.0 | 90 | 2360209 | 29.6 | |
| 130 n-Butylbenzene | 91 | 15.098 | 15.098 | 0.0 | 95 | 5154727 | 30.7 | |
| 129 1,2-Dichlorobenzene | 146 | 15.133 | 15.133 | 0.0 | 95 | 1955025 | 30.0 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.438 | 16.438 | 0.0 | 87 | 195276 | 30.8 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.360 | 17.360 | 0.0 | 94 | 1600095 | 30.4 | |
| 133 Hexachlorobutadiene | 225 | 17.499 | 17.499 | 0.0 | 96 | 1469473 | 31.6 | |
| 134 Naphthalene | 128 | 17.603 | 17.603 | 0.0 | 96 | 1517159 | 28.4 | |
| 135 1,2,3-Trichlorobenzene | 180 | 17.830 | 17.830 | 0.0 | 95 | 1239963 | 29.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 60.1 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 91.8 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 60.1 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 60.8 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 122.9 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 91.8 | |
| S 138 Total BTEX | 1 | | | | 0 | | 183.4 | |

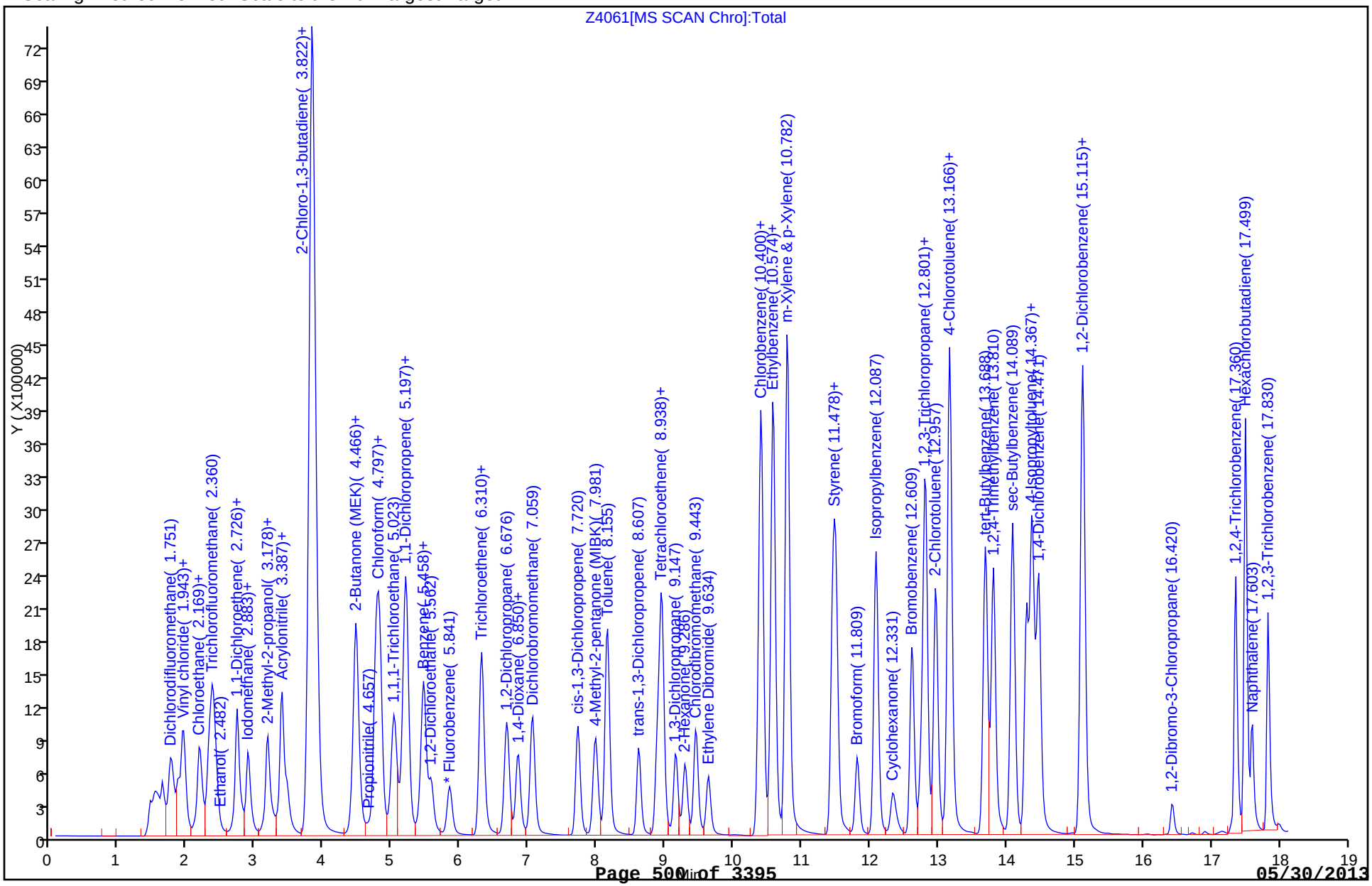
Report Date: 09-May-2013 06:27:31 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4061.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 21:11:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 36 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4062.D | | |
| Lims ID: | std60 | Client ID: | |
| Inject. Date: | 08-May-2013 21:33:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | std60 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 9 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 37 |
| Sublist: | chrom-AQ_VMSZ_8260*sub6 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:32 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: tinkhams | | Date: | 08-May-2013 23:17:45 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.842 | 5.841 | 0.001 | 98 | 1114969 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.367 | 10.365 | 0.002 | 86 | 241354 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.438 | 14.437 | 0.001 | 88 | 413058 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.753 | 1.769 | -0.016 | 92 | 3732985 | 62.8 | |
| 25 Chloromethane | 50 | 1.875 | 1.856 | 0.019 | 97 | 2606404 | 55.4 | |
| 28 Vinyl chloride | 62 | 1.962 | 1.960 | 0.002 | 97 | 2086629 | 61.6 | |
| 30 Bromomethane | 94 | 2.171 | 2.169 | 0.002 | 90 | 2248988 | 59.3 | |
| 31 Chloroethane | 64 | 2.206 | 2.204 | 0.002 | 90 | 1369525 | 58.0 | |
| 33 Trichlorofluoromethane | 101 | 2.397 | 2.413 | -0.016 | 99 | 5023958 | 60.3 | |
| 35 Ethanol | 45 | 2.501 | 2.482 | 0.019 | 79 | 219980 | 2834.2 | |
| 41 Acrolein | 56 | 2.675 | 2.691 | -0.016 | 93 | 560741 | 582.4 | |
| 43 1,1-Dichloroethene | 96 | 2.728 | 2.726 | 0.002 | 98 | 1930616 | 59.3 | |
| 42 Acetone | 43 | 2.797 | 2.813 | -0.016 | 94 | 582379 | 214.7 | |
| 45 Iodomethane | 142 | 2.884 | 2.883 | 0.002 | 99 | 4031395 | 60.4 | |
| 47 Acetonitrile | 41 | 3.163 | 3.178 | -0.015 | 87 | 765030 | 564.7 | |
| 50 Methylene Chloride | 84 | 3.163 | 3.178 | -0.015 | 96 | 1799877 | 60.5 | |
| 51 2-Methyl-2-propanol | 59 | 3.250 | 3.248 | 0.002 | 95 | 1340726 | 1192.7 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.371 | 3.387 | -0.016 | 97 | 2331271 | 58.6 | |
| 52 Acrylonitrile | 53 | 3.458 | 3.457 | 0.001 | 97 | 1619891 | 583.7 | |
| 58 Isopropyl ether | 87 | 3.824 | 3.822 | 0.002 | 98 | 8692785 | 313.0 | |
| 56 1,1-Dichloroethane | 63 | 3.824 | 3.840 | -0.016 | 97 | 4230306 | 60.5 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.894 | 3.892 | 0.002 | 90 | 3039843 | 59.6 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.468 | 4.466 | 0.002 | 84 | 2389688 | 60.3 | |
| 63 2,2-Dichloropropane | 77 | 4.468 | 4.466 | 0.002 | 84 | 3388930 | 56.4 | |
| 61 2-Butanone (MEK) | 43 | 4.503 | 4.483 | 0.020 | 99 | 1325913 | 226.1 | |
| 64 Propionitrile | 54 | 4.659 | 4.657 | 0.002 | 64 | 607444 | 609.9 | |
| 68 Chlorobromomethane | 128 | 4.746 | 4.744 | 0.002 | 93 | 1045694 | 62.1 | |
| 66 Methacrylonitrile | 41 | 4.781 | 4.779 | 0.002 | 94 | 4101598 | 610.6 | |
| 69 Chloroform | 83 | 4.816 | 4.814 | 0.002 | 95 | 4281847 | 59.6 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 1,1,1-Trichloroethane | 97 | 5.025 | 5.023 | 0.002 | 91 | 4252010 | 59.2 | |
| 74 Carbon tetrachloride | 117 | 5.181 | 5.179 | 0.002 | 93 | 4090264 | 61.2 | |
| 73 1,1-Dichloropropene | 75 | 5.199 | 5.197 | 0.002 | 96 | 3687588 | 58.9 | |
| 75 Isobutyl alcohol | 41 | 5.407 | 5.406 | 0.001 | 88 | 484050 | 1208.6 | |
| 77 Benzene | 78 | 5.460 | 5.458 | 0.002 | 94 | 6548367 | 59.9 | |
| 76 1,2-Dichloroethane | 62 | 5.564 | 5.562 | 0.002 | 96 | 1810591 | 60.7 | |
| 78 n-Butanol | 56 | 6.295 | 6.293 | 0.002 | 91 | 603922 | 1840.3 | |
| 80 Trichloroethene | 95 | 6.312 | 6.310 | 0.002 | 96 | 2951034 | 57.6 | |
| 83 1,2-Dichloropropane | 63 | 6.678 | 6.676 | 0.002 | 95 | 2300138 | 60.5 | |
| 85 Dibromomethane | 93 | 6.834 | 6.832 | 0.002 | 91 | 1450933 | 60.5 | |
| 87 1,4-Dioxane | 88 | 6.852 | 6.850 | 0.002 | 56 | 384136 | 3230.9 | |
| 88 Dichlorobromomethane | 83 | 7.060 | 7.059 | 0.001 | 99 | 3845393 | 61.3 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.722 | 7.720 | 0.002 | 90 | 3159214 | 59.8 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.983 | 7.981 | 0.002 | 97 | 4162391 | 242.3 | |
| 93 Toluene | 91 | 8.157 | 8.155 | 0.002 | 98 | 7723772 | 59.2 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.609 | 8.607 | 0.002 | 95 | 2289711 | 60.8 | |
| 96 1,1,2-Trichloroethane | 97 | 8.887 | 8.886 | 0.001 | 92 | 1512082 | 60.7 | |
| 97 Tetrachloroethene | 164 | 8.957 | 8.938 | 0.019 | 99 | 2711888 | 58.1 | |
| 98 1,3-Dichloropropane | 76 | 9.149 | 9.147 | 0.001 | 91 | 2366302 | 59.7 | |
| 99 2-Hexanone | 43 | 9.288 | 9.286 | 0.002 | 97 | 2671780 | 238.8 | |
| 100 Chlorodibromomethane | 129 | 9.444 | 9.443 | 0.001 | 90 | 2616329 | 61.1 | |
| 102 Ethylene Dibromide | 107 | 9.636 | 9.634 | 0.002 | 98 | 1971445 | 59.9 | |
| 104 1-Chlorohexane | 91 | 10.401 | 10.400 | 0.001 | 98 | 3456485 | 53.7 | |
| 103 Chlorobenzene | 112 | 10.419 | 10.417 | 0.002 | 91 | 5282272 | 58.5 | |
| 106 Ethylbenzene | 106 | 10.575 | 10.574 | 0.001 | 99 | 2650620 | 57.6 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.593 | 10.574 | 0.019 | 96 | 2505740 | 59.8 | |
| 107 m-Xylene & p-Xylene | 106 | 10.784 | 10.782 | 0.002 | 0 | 6847898 | 114.5 | |
| 108 o-Xylene | 106 | 11.463 | 11.461 | 0.002 | 96 | 3091902 | 56.8 | |
| 109 Styrene | 104 | 11.498 | 11.496 | 0.002 | 95 | 5059212 | 58.4 | |
| 110 Bromoform | 173 | 11.811 | 11.809 | 0.002 | 94 | 1733922 | 61.7 | |
| 111 Isopropylbenzene | 105 | 12.089 | 12.087 | 0.002 | 95 | 9667483 | 57.7 | |
| 112 Cyclohexanone | 55 | 12.333 | 12.331 | 0.002 | 93 | 1088134 | 2149.0 | |
| 114 Bromobenzene | 156 | 12.611 | 12.609 | 0.002 | 96 | 2516008 | 59.7 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.750 | 12.749 | 0.001 | 93 | 1902888 | 60.4 | |
| 118 N-Propylbenzene | 120 | 12.820 | 12.801 | 0.019 | 98 | 2286766 | 57.1 | |
| 116 1,2,3-Trichloropropane | 110 | 12.820 | 12.818 | 0.002 | 48 | 448373 | 61.4 | |
| 119 2-Chlorotoluene | 126 | 12.959 | 12.957 | 0.002 | 95 | 1941471 | 57.7 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.168 | 13.149 | 0.019 | 86 | 7349647 | 57.9 | |
| 120 4-Chlorotoluene | 126 | 13.185 | 13.166 | 0.019 | 98 | 2084741 | 58.3 | |
| 122 tert-Butylbenzene | 119 | 13.690 | 13.688 | 0.002 | 90 | 6706658 | 55.8 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.812 | 13.810 | 0.002 | 98 | 7087753 | 57.3 | |
| 124 sec-Butylbenzene | 134 | 14.090 | 14.089 | 0.001 | 95 | 1944879 | 55.1 | |
| 125 1,3-Dichlorobenzene | 146 | 14.299 | 14.297 | 0.002 | 95 | 4152479 | 56.8 | |
| 126 4-Isopropyltoluene | 119 | 14.369 | 14.367 | 0.002 | 97 | 8375418 | 54.8 | |
| 127 1,4-Dichlorobenzene | 146 | 14.473 | 14.471 | 0.002 | 91 | 4249105 | 55.3 | |
| 130 n-Butylbenzene | 91 | 15.100 | 15.098 | 0.002 | 95 | 8768973 | 54.1 | |
| 129 1,2-Dichlorobenzene | 146 | 15.134 | 15.133 | 0.001 | 94 | 3575203 | 56.9 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.422 | 16.438 | -0.016 | 86 | 376826 | 61.6 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.362 | 17.360 | 0.002 | 91 | 2850625 | 56.1 | |
| 133 Hexachlorobutadiene | 225 | 17.501 | 17.499 | 0.002 | 97 | 2457118 | 54.8 | |
| 134 Naphthalene | 128 | 17.605 | 17.603 | 0.002 | 98 | 2824699 | 54.8 | |
| 135 1,2,3-Trichlorobenzene | 180 | 17.831 | 17.830 | 0.001 | 94 | 2247066 | 55.2 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 118.9 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 171.3 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 118.9 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 120.5 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 243.7 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 171.3 | |
| S 138 Total BTEX | 1 | | | | 0 | | 348.0 | |

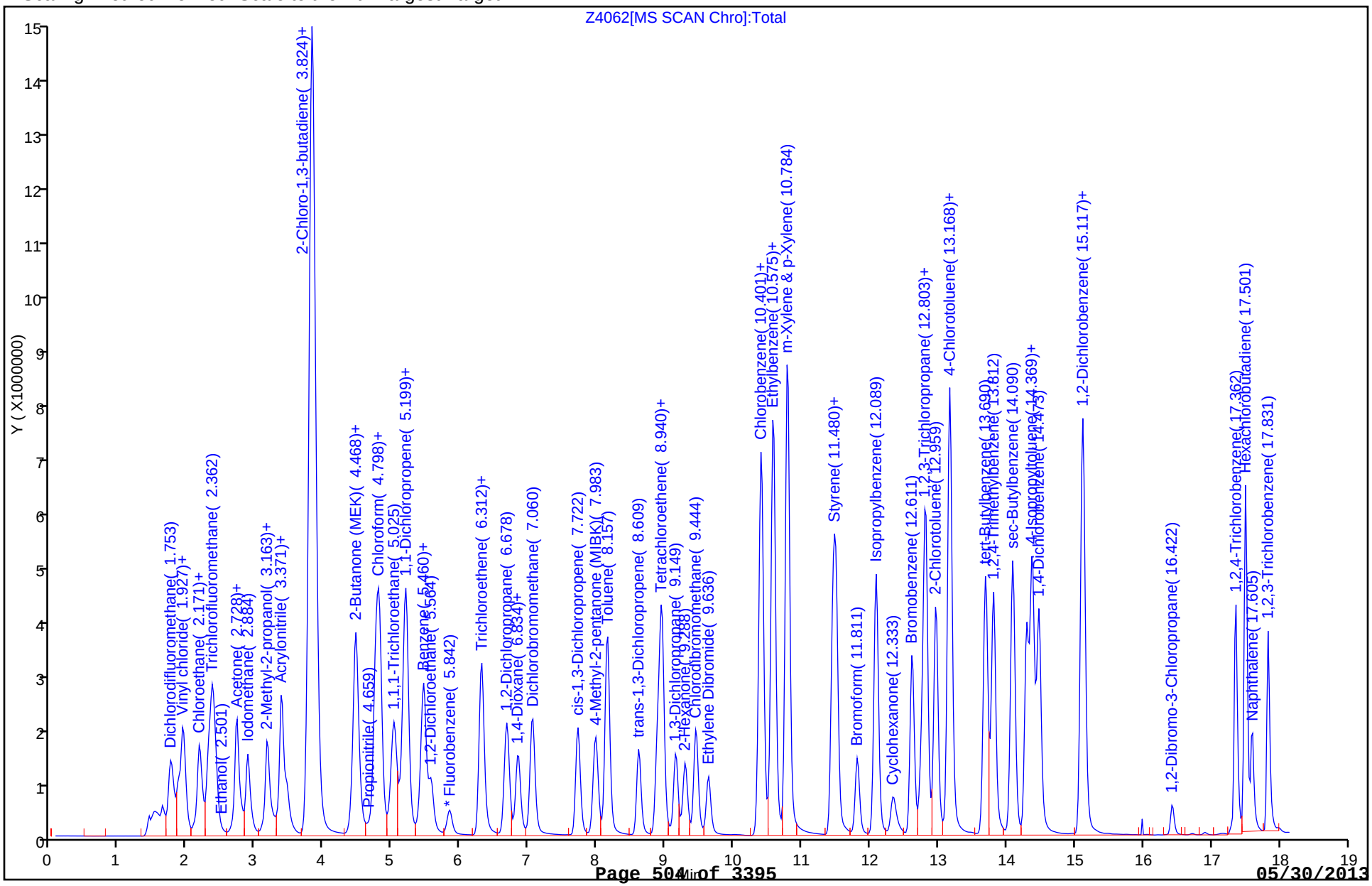
Report Date: 09-May-2013 06:27:32 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4062.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 21:33:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 37 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 22:40 Calibration End Date: 05/09/2013 00:31 Calibration ID: 13943

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD01 280-173382/39 | Z4065.D |
| Level 2 | STD02 280-173382/40 | Z4066.D |
| Level 3 | STD05 280-173382/41 | Z4067.D |
| Level 4 | ICIS 280-173382/42 | Z4068.D |
| Level 5 | STD30 280-173382/43 | Z4069.D |
| Level 6 | STD60 280-173382/44 | Z4070.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.8599<br>0.8438 | 0.8176 | 0.8780 | 0.8307 | 0.8312 | Ave | | 0.8435 | | | | 2.6 | | 15.0 | | | |
| Isopropyl alcohol | +++++<br>0.0068 | 0.0074 | 0.0080 | 0.0072 | 0.0073 | Ave | | 0.0073 | | | | 5.6 | | 15.0 | | | |
| Ethyl ether | 0.2201<br>0.2131 | 0.2196 | 0.2345 | 0.2185 | 0.2206 | Ave | | 0.2211 | | | | 3.2 | | 15.0 | | | |
| Propene oxide | 0.0229<br>0.0211 | 0.0220 | 0.0235 | 0.0219 | 0.0227 | Ave | | 0.0224 | | | | 3.8 | | 15.0 | | | |
| 2,2-Dichloro-1,1,1-trifluoroethane | 0.9501<br>0.9291 | 0.9170 | 0.9454 | 0.9190 | 0.9273 | Ave | | 0.9313 | | | | 1.5 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.4875<br>0.4991 | 0.4764 | 0.5002 | 0.4865 | 0.4930 | Ave | | 0.4905 | | | | 1.8 | | 15.0 | | | |
| Carbon disulfide | 1.2841<br>1.1790 | 1.1667 | 1.2194 | 1.1837 | 1.1764 | Ave | | 1.2016 | | | | 3.7 | | 15.0 | | | |
| Allyl chloride | 0.5337<br>0.4895 | 0.4852 | 0.5042 | 0.4879 | 0.4884 | Ave | | 0.4982 | | | | 3.7 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.5686<br>0.5448 | 0.5623 | 0.5942 | 0.5618 | 0.5809 | Ave | | 0.5688 | | | | 3.0 | | 15.0 | | | |
| Hexane | 2.6549<br>2.5876 | 2.4617 | 2.5573 | 2.4781 | 2.5574 | Ave | | 2.5495 | | | | 2.8 | | 15.0 | | | |
| Tert-butyl ethyl ether | 1.0033<br>0.9874 | 0.9794 | 1.0427 | 0.9756 | 1.0145 | Ave | | 1.0005 | | | | 2.5 | | 15.0 | | | |
| 2-Butanol | 0.0108<br>0.0095 | 0.0096 | 0.0102 | 0.0096 | 0.0109 | Ave | | 0.0101 | | | | 6.3 | | 15.0 | | | |
| Tetrahydrofuran | +++++<br>0.0338 | 0.0415 | 0.0373 | 0.0353 | 0.0367 | Ave | | 0.0369 | | | | 7.8 | | 15.0 | | | |
| Cyclohexane | 0.6329<br>0.6179 | 0.6036 | 0.6265 | 0.5983 | 0.6182 | Ave | | 0.6162 | | | | 2.1 | | 15.0 | | | |
| Tert-amyl methyl ether | 0.7627<br>0.7508 | 0.7429 | 0.7948 | 0.7607 | 0.7929 | Ave | | 0.7674 | | | | 2.8 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 22:40 Calibration End Date: 05/09/2013 00:31 Calibration ID: 13943

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.6156<br>0.5708 | 0.5875 | 0.5734 | 0.5602 | 0.5807 | Ave | | 0.5814 | | | | 3.3 | | 15.0 | | | |
| 2-Pentanone | 0.1217<br>0.1261 | 0.1378 | 0.1407 | 0.1342 | 0.1385 | Ave | | 0.1332 | | | | 5.7 | | 15.0 | | | |
| Methyl methacrylate | 0.0496<br>0.0543 | 0.0511 | 0.0572 | 0.0548 | 0.0585 | Ave | | 0.0543 | | | | 6.3 | | 15.0 | | | |
| 2-Nitropropane | 0.0662<br>0.0365 | 0.0539 | 0.0381 | 0.0393 | 0.0403 | Lin2 | 0.0302 | 0.0364 | | | | | | | 0.9920 | | 0.9900 |
| 2-Chloroethyl vinyl ether | 0.1233<br>0.1281 | 0.1194 | 0.1315 | 0.1344 | 0.1375 | Ave | | 0.1290 | | | | 5.3 | | 15.0 | | | |
| Ethyl methacrylate | 1.3183<br>1.3057 | 1.1231 | 1.3801 | 1.2988 | 1.3927 | Ave | | 1.3031 | | | | 7.4 | | 15.0 | | | |
| cis-1,4-Dichloro-2-butene | 0.0780<br>0.0796 | 0.0786 | 0.0835 | 0.0804 | 0.0837 | Ave | | 0.0806 | | | | 3.1 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1090<br>0.1036 | 0.0945 | 0.1086 | 0.1031 | 0.1084 | Ave | | 0.1045 | | | | 5.3 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | +++++<br>0.6334 | 0.6888 | 0.6695 | 0.6376 | 0.6473 | Ave | | 0.6553 | | | | 3.6 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | +++++<br>0.2823 | 0.3119 | 0.3036 | 0.2882 | 0.2936 | Ave | | 0.2959 | | | | 4.0 | | 15.0 | | | |
| Toluene-d8 (Surr) | +++++<br>5.6282 | 6.3956 | 6.2483 | 5.8817 | 5.9227 | Ave | | 6.0153 | | | | 5.1 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | +++++<br>1.7688 | 2.1876 | 2.0202 | 1.8739 | 1.9128 | Ave | | 1.9527 | | | | 8.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 22:40 Calibration End Date: 05/09/2013 00:31 Calibration ID: 13943

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD01 280-173382/39 | Z4065.D |
| Level 2 | STD02 280-173382/40 | Z4066.D |
| Level 3 | STD05 280-173382/41 | Z4067.D |
| Level 4 | ICIS 280-173382/42 | Z4068.D |
| Level 5 | STD30 280-173382/43 | Z4069.D |
| Level 6 | STD60 280-173382/44 | Z4070.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 76250<br>4642625 | 147778 | 398613 | 767786 | 2334457 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Isopropyl alcohol | FB | Ave | +++++<br>750952 | 26576 | 72365 | 133540 | 410296 | +++++<br>1200 | 40.0 | 100 | 200 | 600 |
| Ethyl ether | FB | Ave | 19518<br>1172353 | 39692 | 106478 | 201956 | 619557 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Propene oxide | FB | Ave | 101549<br>5803180 | 199048 | 533087 | 1013581 | 3191781 | 50.0<br>3000 | 100 | 250 | 500 | 1500 |
| 2,2-Dichloro-1,1,1-trifluoroethane | FB | Ave | 84249<br>5111881 | 165743 | 429215 | 849383 | 2604364 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | FB | Ave | 43226<br>2745849 | 86111 | 227106 | 449666 | 1384720 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Carbon disulfide | FB | Ave | 113866<br>6486588 | 210881 | 553638 | 1094027 | 3304063 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Allyl chloride | FB | Ave | 47325<br>2693044 | 87707 | 228904 | 450909 | 1371842 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Methyl tert-butyl ether | FB | Ave | 50422<br>2997266 | 101631 | 269761 | 519272 | 1631548 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Hexane | CBZ | Ave | 51016<br>3004831 | 96152 | 248900 | 492259 | 1543457 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Tert-butyl ethyl ether | FB | Ave | 444849<br>27161168 | 885092 | 2367096 | 4508254 | 14246012 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| 2-Butanol | FB | Ave | 35020<br>1911600 | 63416 | 168622 | 324388 | 1119836 | 36.4<br>2185 | 72.8 | 182 | 364 | 1093 |
| Tetrahydrofuran | FB | Ave | +++++<br>371856 | 14992 | 33867 | 65194 | 205911 | +++++<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Cyclohexane | FB | Ave | 56120<br>3399685 | 109095 | 284448 | 553010 | 1736131 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Tert-amyl methyl ether | FB | Ave | 338154<br>20652621 | 671394 | 1804308 | 3515099 | 11134249 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| Methylcyclohexane | FB | Ave | 54590<br>3140467 | 106193 | 260331 | 517760 | 1630860 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2013 22:40 Calibration End Date: 05/09/2013 00:31 Calibration ID: 13943

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 2-Pentanone | FB | Ave | 43180<br>2774219 | 99609 | 255602 | 496240 | 1556103 | 4.00<br>240 | 8.00 | 20.0 | 40.0 | 120 |
| Methyl methacrylate | FB | Ave | 8797<br>597110 | 18482 | 51961 | 101342 | 328574 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| 2-Nitropropane | FB | Lin2 | 5868<br>200713 | 9749 | 17284 | 36356 | 113189 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 10935<br>704846 | 21590 | 59693 | 124173 | 386060 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Ethyl methacrylate | CBZ | Ave | 50664<br>3032448 | 87735 | 268640 | 516007 | 1681027 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| cis-1,4-Dichloro-2-butene | DCB | Ave | 2621<br>162081 | 5371 | 14402 | 27906 | 90303 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 3665<br>210910 | 6457 | 18736 | 35814 | 116874 | 1.00<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Dibromofluoromethane (Surr) | FB | Ave | +++++<br>3484909 | 124509 | 303980 | 589287 | 1817933 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | +++++<br>1552914 | 56371 | 137856 | 266389 | 824497 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| Toluene-d8 (Surr) | CBZ | Ave | +++++<br>6535802 | 249804 | 608142 | 1168377 | 3574504 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |
| 4-Bromofluorobenzene (Surr) | DCB | Ave | +++++<br>3602577 | 149553 | 348574 | 650630 | 2062833 | +++++<br>60.0 | 2.00 | 5.00 | 10.0 | 30.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin2 = Linear 1/conc^2 ISTD |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4065.D
Lims ID: std01 Client ID:
Inject. Date: 08-May-2013 22:40:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: std01
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 12
Lims Batch ID: 173382 Lims Sample ID: 39
Sublist: chrom-AQ_VMSZ_8260*sub24
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:33 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: tinkhams Date: 08-May-2013 23:25:44

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.830 | 5.841 | -0.011 | 98 | 1108450 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.371 | 10.365 | 0.006 | 89 | 240193 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.426 | 14.437 | -0.011 | 97 | 420242 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.012 | 5.006 | 0.006 | 74 | 61791 | 1.06 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.464 | 5.458 | 0.006 | 76 | 28917 | 1.10 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.039 | 8.034 | 0.005 | 90 | 125774 | 1.09 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.390 | 12.401 | -0.011 | 83 | 76298 | 1.16 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.845 | 1.839 | 0.006 | 77 | 42521 | 0.9111 | |
| 29 Ethylene oxide | 43 | 2.141 | 2.117 | 0.024 | 99 | 56397 | 119.6 | |
| 32 Dichlorofluoromethane | 67 | 2.349 | 2.344 | 0.005 | 96 | 76250 | 1.02 | |
| 37 Isopropyl alcohol | 45 | | 2.500 | | | | | 3 |
| 36 Ethyl ether | 59 | 2.523 | 2.500 | 0.023 | 73 | 19518 | 1.00 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.576 | 2.553 | 0.024 | 94 | 54650 | 1.02 | |
| 40 Propene oxide | 58 | 2.610 | 2.587 | 0.023 | 93 | 101549 | 51.2 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.610 | 2.605 | 0.005 | 73 | 84249 | 1.02 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.750 | 2.744 | 0.006 | 86 | 43226 | 0.99 | |
| 46 Carbon disulfide | 76 | 2.924 | 2.918 | 0.006 | 100 | 113866 | 1.07 | |
| 48 3-Chloro-1-propene | 41 | 3.045 | 3.022 | 0.023 | 74 | 47325 | 1.07 | |
| 54 Methyl tert-butyl ether | 73 | 3.376 | 3.370 | 0.006 | 83 | 50422 | 1.00 | |
| 55 Hexane | 57 | 3.550 | 3.544 | 0.006 | 91 | 51016 | 1.04 | |
| 60 Tert-butyl ethyl ether | 59 | 4.211 | 4.206 | 0.005 | 99 | 444849 | 5.01 | |
| 67 sec-Butyl Alcohol | 45 | 4.681 | 4.658 | 0.023 | 89 | 35020 | 39.0 | |
| 70 Tetrahydrofuran | 42 | 4.768 | 4.745 | 0.023 | 78 | 7993 | 2.44 | |
| 72 Cyclohexane | 56 | 5.012 | 5.006 | 0.006 | 78 | 56120 | 1.03 | |
| 79 Tert-amyl methyl ether | 73 | 5.586 | 5.580 | 0.006 | 97 | 338154 | 4.97 | |
| 84 Methylcyclohexane | 55 | 6.491 | 6.485 | 0.006 | 85 | 54590 | 1.06 | |
| 82 2-Pentanone | 43 | 6.630 | 6.624 | 0.006 | 83 | 43180 | 3.66 | |
| 86 Methyl methacrylate | 100 | 6.821 | 6.816 | 0.005 | 82 | 8797 | 1.83 | |
| 89 2-Nitropropane | 41 | 7.483 | 7.512 | -0.029 | 67 | 5868 | 0.9884 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.517 | 7.512 | 0.005 | 67 | 10935 | 0.9557 | |
| 95 Ethyl methacrylate | 69 | 8.701 | 8.695 | 0.006 | 85 | 50664 | 2.02 | |
| 101 Tetrahydrothiophene | 60 | 9.379 | 9.374 | 0.005 | 2 | 3520 | 1.00 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.337 | 12.332 | 0.005 | 0 | 2621 | 0.9671 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.877 | 12.871 | 0.006 | 40 | 3665 | 1.04 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.547 | 14.542 | 0.005 | 89 | 110176 | 1.01 | |

QC Flag Legend

Processing Flags
3 - Failed RT Window Test

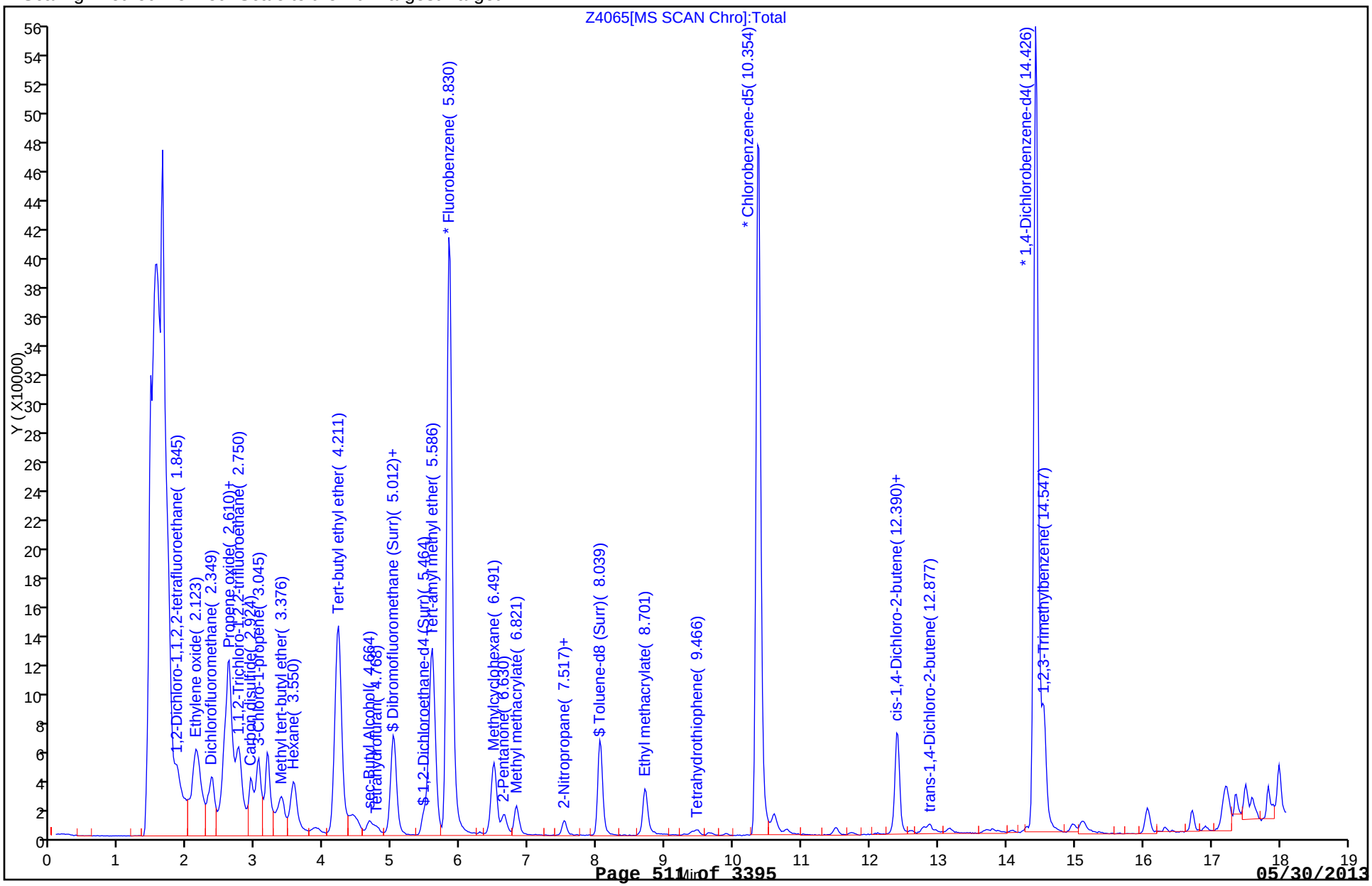
Report Date: 09-May-2013 06:27:33 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4065.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 22:40:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 39 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4066.D
Lims ID: std02 Client ID:
Inject. Date: 08-May-2013 23:02:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: std02
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 13
Lims Batch ID: 173382 Lims Sample ID: 40
Sublist: chrom-AQ_VMSZ_8260*sub24
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:34 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: tinkhams Date: 08-May-2013 23:29:24

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.846 | 5.841 | 0.005 | 98 | 1129682 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.371 | 10.365 | 0.006 | 88 | 244116 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.425 | 14.437 | -0.012 | 97 | 427269 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.029 | 5.006 | 0.023 | 78 | 124509 | 2.10 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.464 | 5.458 | 0.006 | 78 | 56371 | 2.11 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.056 | 8.034 | 0.022 | 91 | 249804 | 2.13 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.406 | 12.401 | 0.005 | 85 | 149553 | 2.24 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.844 | 1.839 | 0.005 | 88 | 86416 | 1.82 | |
| 29 Ethylene oxide | 43 | 2.140 | 2.117 | 0.023 | 98 | 115360 | 240.0 | |
| 32 Dichlorofluoromethane | 67 | 2.366 | 2.344 | 0.022 | 96 | 147778 | 1.94 | |
| 37 Isopropyl alcohol | 45 | 2.523 | 2.500 | 0.023 | 60 | 26576 | 40.1 | |
| 36 Ethyl ether | 59 | 2.523 | 2.500 | 0.023 | 83 | 39692 | 1.99 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.575 | 2.553 | 0.023 | 96 | 106849 | 1.96 | |
| 40 Propene oxide | 58 | 2.610 | 2.587 | 0.023 | 93 | 199048 | 98.5 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.610 | 2.605 | 0.005 | 74 | 165743 | 1.97 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.749 | 2.744 | 0.005 | 92 | 86111 | 1.94 | |
| 46 Carbon disulfide | 76 | 2.940 | 2.918 | 0.022 | 99 | 210881 | 1.94 | |
| 48 3-Chloro-1-propene | 41 | 3.045 | 3.022 | 0.023 | 90 | 87707 | 1.95 | |
| 54 Methyl tert-butyl ether | 73 | 3.376 | 3.370 | 0.006 | 88 | 101631 | 1.98 | |
| 55 Hexane | 57 | 3.567 | 3.544 | 0.023 | 94 | 96152 | 1.93 | |
| 60 Tert-butyl ethyl ether | 59 | 4.211 | 4.206 | 0.005 | 99 | 885092 | 9.79 | |
| 67 sec-Butyl Alcohol | 45 | 4.681 | 4.658 | 0.023 | 90 | 63416 | 69.2 | |
| 70 Tetrahydrofuran | 42 | 4.750 | 4.745 | 0.005 | 79 | 14992 | 4.50 | |
| 72 Cyclohexane | 56 | 5.011 | 5.006 | 0.005 | 87 | 109095 | 1.96 | |
| 79 Tert-amyl methyl ether | 73 | 5.585 | 5.580 | 0.005 | 97 | 671394 | 9.68 | |
| 84 Methylcyclohexane | 55 | 6.490 | 6.485 | 0.005 | 91 | 106193 | 2.02 | |
| 82 2-Pentanone | 43 | 6.647 | 6.624 | 0.023 | 87 | 99609 | 8.28 | |
| 86 Methyl methacrylate | 100 | 6.838 | 6.816 | 0.022 | 88 | 18482 | 3.77 | |
| 89 2-Nitropropane | 41 | 7.499 | 7.512 | -0.013 | 53 | 9749 | 2.13 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.534 | 7.512 | 0.022 | 76 | 21590 | 1.85 | |
| 95 Ethyl methacrylate | 69 | 8.700 | 8.695 | 0.005 | 89 | 87735 | 3.45 | M |
| 101 Tetrahydrothiophene | 60 | 9.396 | 9.374 | 0.022 | 48 | 6471 | 1.82 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.337 | 12.332 | 0.005 | 0 | 5371 | 1.95 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.876 | 12.871 | 0.005 | 65 | 6457 | 1.81 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.547 | 14.542 | 0.005 | 82 | 223862 | 2.03 | |

QC Flag Legend

Review Flags
M - Manually Integrated

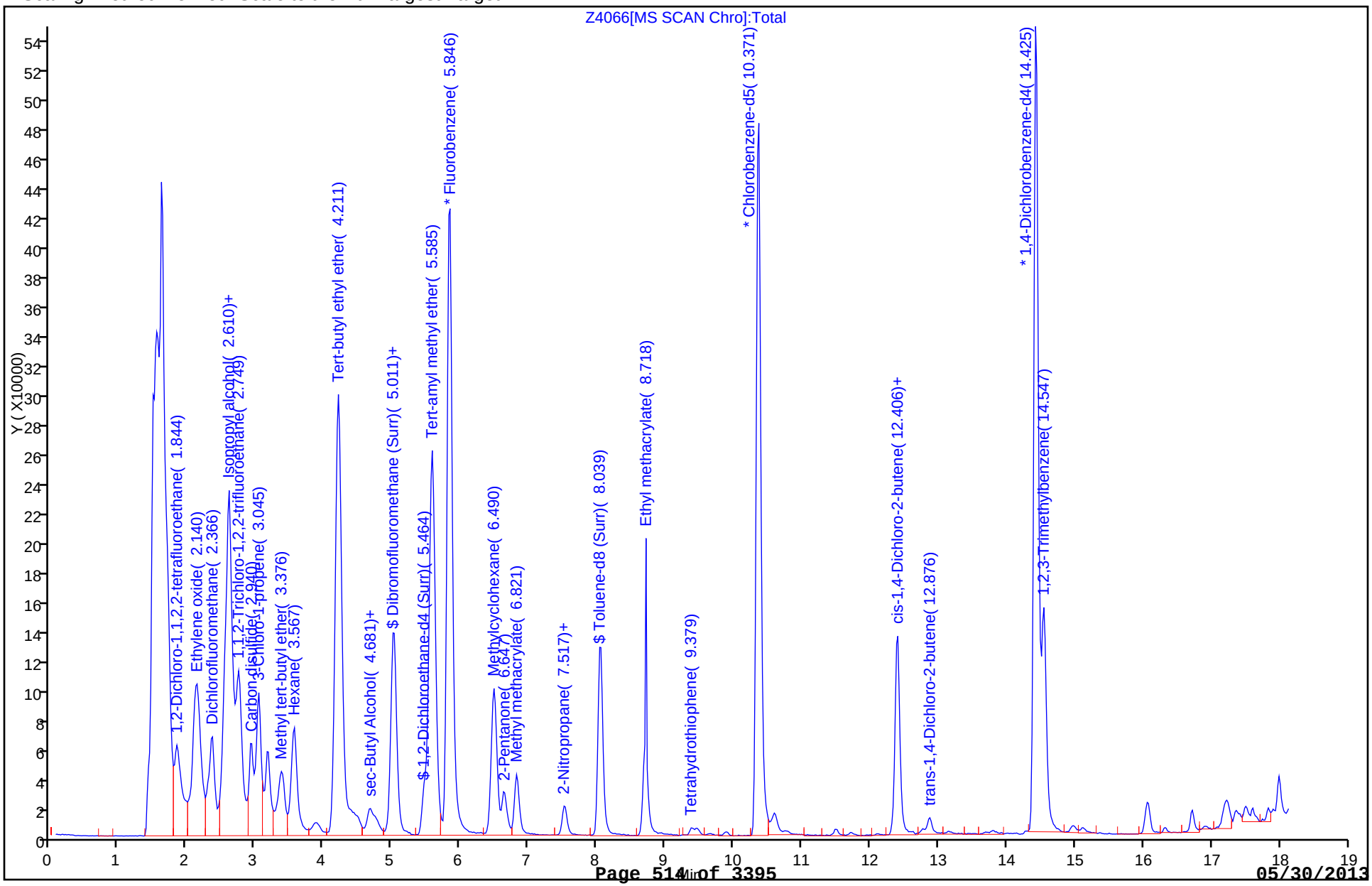
Report Date: 09-May-2013 06:27:34 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4066.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 23:02:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 40 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

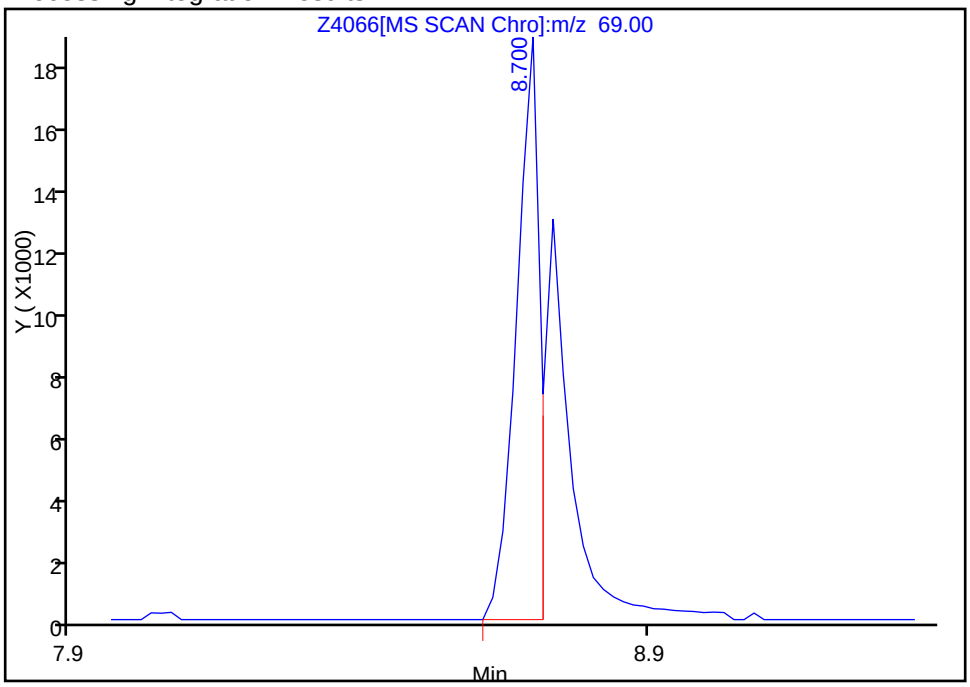
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4066.D | | |
| Injection Date: | 08-May-2013 23:02:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 40 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

95 Ethyl methacrylate, Signal: 1, m/z: 69.0 Type: quant, RT: 8.69

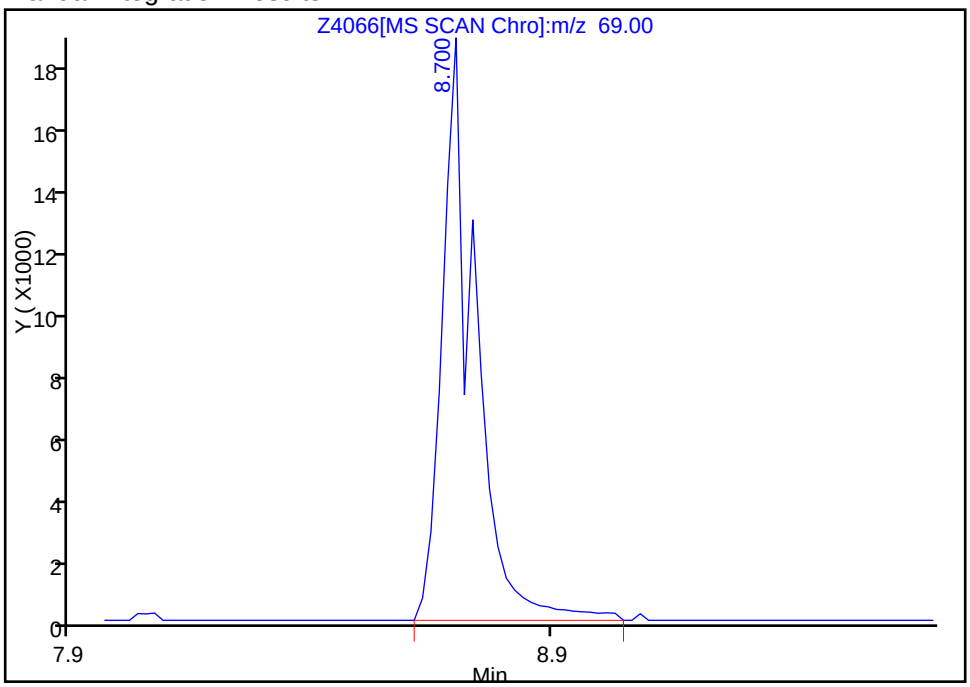
Processing Integration Results

RT: 8.70
Response: 52530
Amount: 4.000000




Manual Integration Results

RT: 8.70
Response: 87735
Amount: 3.447509




Reviewer: tinkhams, 08-May-2013 23:29:24
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4067.D | | |
| Lims ID: | std05 | Client ID: | |
| Inject. Date: | 08-May-2013 23:24:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | std05 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 14 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 41 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:35 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:11:37 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.841 | 0.0 | 98 | 1135047 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 243322 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 98 | 431363 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.023 | 5.006 | 0.017 | 81 | 303980 | 5.11 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.458 | 5.458 | 0.0 | 90 | 137856 | 5.13 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.051 | 8.034 | 0.017 | 93 | 608142 | 5.19 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.401 | 12.401 | 0.0 | 86 | 348574 | 5.17 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.839 | 1.839 | 0.0 | 92 | 253802 | 5.31 | |
| 29 Ethylene oxide | 43 | 2.117 | 2.117 | 0.0 | 99 | 324696 | 672.3 | |
| 32 Dichlorofluoromethane | 67 | 2.361 | 2.344 | 0.017 | 97 | 398613 | 5.20 | |
| 37 Isopropyl alcohol | 45 | 2.518 | 2.500 | 0.018 | 59 | 72365 | 108.7 | |
| 36 Ethyl ether | 59 | 2.518 | 2.500 | 0.018 | 79 | 106478 | 5.30 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.552 | 2.553 | 0.0 | 97 | 279123 | 5.10 | |
| 40 Propene oxide | 58 | 2.605 | 2.587 | 0.018 | 96 | 533087 | 262.5 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.605 | 2.605 | 0.0 | 74 | 429215 | 5.08 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.744 | 2.744 | 0.0 | 93 | 227106 | 5.10 | |
| 46 Carbon disulfide | 76 | 2.918 | 2.918 | 0.0 | 99 | 553638 | 5.07 | |
| 48 3-Chloro-1-propene | 41 | 3.040 | 3.022 | 0.018 | 90 | 228904 | 5.06 | |
| 54 Methyl tert-butyl ether | 73 | 3.370 | 3.370 | 0.0 | 89 | 269761 | 5.22 | |
| 55 Hexane | 57 | 3.544 | 3.544 | 0.0 | 95 | 248900 | 5.02 | |
| 60 Tert-butyl ethyl ether | 59 | 4.205 | 4.206 | -0.001 | 99 | 2367096 | 26.1 | |
| 67 sec-Butyl Alcohol | 45 | 4.658 | 4.658 | 0.0 | 99 | 168622 | 183.2 | |
| 70 Tetrahydrofuran | 42 | 4.762 | 4.745 | 0.017 | 84 | 33867 | 10.1 | |
| 72 Cyclohexane | 56 | 5.006 | 5.006 | 0.0 | 80 | 284448 | 5.08 | |
| 79 Tert-amyl methyl ether | 73 | 5.580 | 5.580 | 0.0 | 96 | 1804308 | 25.9 | |
| 84 Methylcyclohexane | 55 | 6.485 | 6.485 | 0.0 | 92 | 260331 | 4.93 | |
| 82 2-Pentanone | 43 | 6.642 | 6.624 | 0.018 | 97 | 255602 | 21.1 | |
| 86 Methyl methacrylate | 100 | 6.816 | 6.816 | 0.0 | 91 | 51961 | 10.5 | |
| 89 2-Nitropropane | 41 | 7.494 | 7.512 | -0.018 | 81 | 17284 | 4.40 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.529 | 7.512 | 0.017 | 87 | 59693 | 5.09 | |
| 95 Ethyl methacrylate | 69 | 8.712 | 8.695 | 0.017 | 91 | 268640 | 10.6 | |
| 101 Tetrahydrothiophene | 60 | 9.391 | 9.374 | 0.017 | 74 | 17860 | 5.03 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.332 | 12.332 | 0.0 | 0 | 14402 | 5.18 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.871 | 12.871 | 0.0 | 87 | 18736 | 5.19 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.541 | 14.542 | -0.001 | 90 | 568557 | 5.10 | |

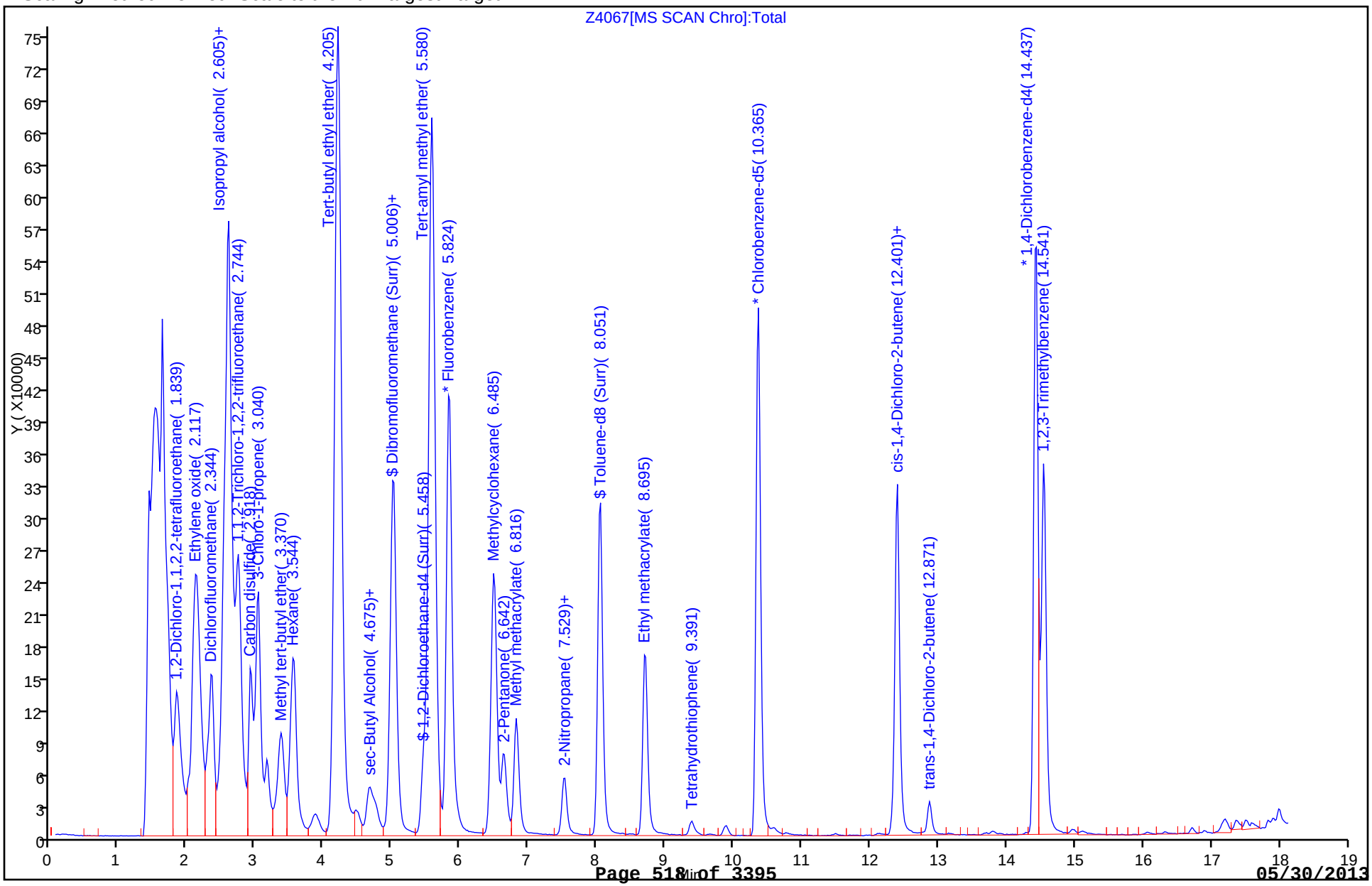
Report Date: 09-May-2013 06:27:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4067.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 23:24:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 41 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4068.D | | |
| Lims ID: | icis | Client ID: | |
| Inject. Date: | 08-May-2013 23:46:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICIS | Calib Level: | 5 |
| Sample ID: | icis | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 15 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 42 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:36 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:11:48 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.824 | 5.824 | 0.0 | 98 | 1155286 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 248306 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 97 | 434004 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.006 | 5.006 | 0.0 | 80 | 589287 | 9.73 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.458 | 5.458 | 0.0 | 90 | 266389 | 9.74 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.034 | 8.034 | 0.0 | 93 | 1168377 | 9.78 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.401 | 12.401 | 0.0 | 86 | 650630 | 9.60 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.839 | 1.839 | 0.0 | 93 | 497536 | 10.2 | |
| 29 Ethylene oxide | 43 | 2.117 | 2.117 | 0.0 | 99 | 609795 | 1240.4 | |
| 32 Dichlorofluoromethane | 67 | 2.344 | 2.344 | 0.0 | 97 | 767786 | 9.85 | |
| 37 Isopropyl alcohol | 45 | 2.500 | 2.500 | 0.0 | 84 | 133540 | 197.0 | |
| 36 Ethyl ether | 59 | 2.500 | 2.500 | 0.0 | 90 | 201956 | 9.88 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.553 | 2.553 | 0.0 | 97 | 547087 | 9.82 | |
| 40 Propene oxide | 58 | 2.587 | 2.587 | 0.0 | 96 | 1013581 | 490.4 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.605 | 2.605 | 0.0 | 77 | 849383 | 9.87 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.744 | 2.744 | 0.0 | 94 | 449666 | 9.92 | |
| 46 Carbon disulfide | 76 | 2.918 | 2.918 | 0.0 | 100 | 1094027 | 9.85 | |
| 48 3-Chloro-1-propene | 41 | 3.022 | 3.022 | 0.0 | 89 | 450909 | 9.79 | |
| 54 Methyl tert-butyl ether | 73 | 3.370 | 3.370 | 0.0 | 91 | 519272 | 9.88 | |
| 55 Hexane | 57 | 3.544 | 3.544 | 0.0 | 96 | 492259 | 9.72 | |
| 60 Tert-butyl ethyl ether | 59 | 4.206 | 4.206 | 0.0 | 99 | 4508254 | 48.8 | |
| 67 sec-Butyl Alcohol | 45 | 4.658 | 4.658 | 0.0 | 99 | 324388 | 346.3 | |
| 70 Tetrahydrofuran | 42 | 4.745 | 4.745 | 0.0 | 90 | 65194 | 19.1 | |
| 72 Cyclohexane | 56 | 5.006 | 5.006 | 0.0 | 83 | 553010 | 9.71 | |
| 79 Tert-amyl methyl ether | 73 | 5.580 | 5.580 | 0.0 | 97 | 3515099 | 49.6 | |
| 84 Methylcyclohexane | 55 | 6.485 | 6.485 | 0.0 | 92 | 517760 | 9.64 | |
| 82 2-Pentanone | 43 | 6.624 | 6.624 | 0.0 | 97 | 496240 | 40.3 | |
| 86 Methyl methacrylate | 100 | 6.816 | 6.816 | 0.0 | 92 | 101342 | 20.2 | |
| 89 2-Nitropropane | 41 | 7.512 | 7.512 | 0.0 | 65 | 36356 | 9.98 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.512 | 7.512 | 0.0 | 85 | 124173 | 10.4 | |
| 95 Ethyl methacrylate | 69 | 8.695 | 8.695 | 0.0 | 91 | 516007 | 19.9 | |
| 101 Tetrahydrothiophene | 60 | 9.374 | 9.374 | 0.0 | 89 | 35046 | 9.67 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.332 | 12.332 | 0.0 | 0 | 27906 | 9.97 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.871 | 12.871 | 0.0 | 92 | 35814 | 9.87 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.542 | 14.542 | 0.0 | 84 | 1083470 | 9.66 | |

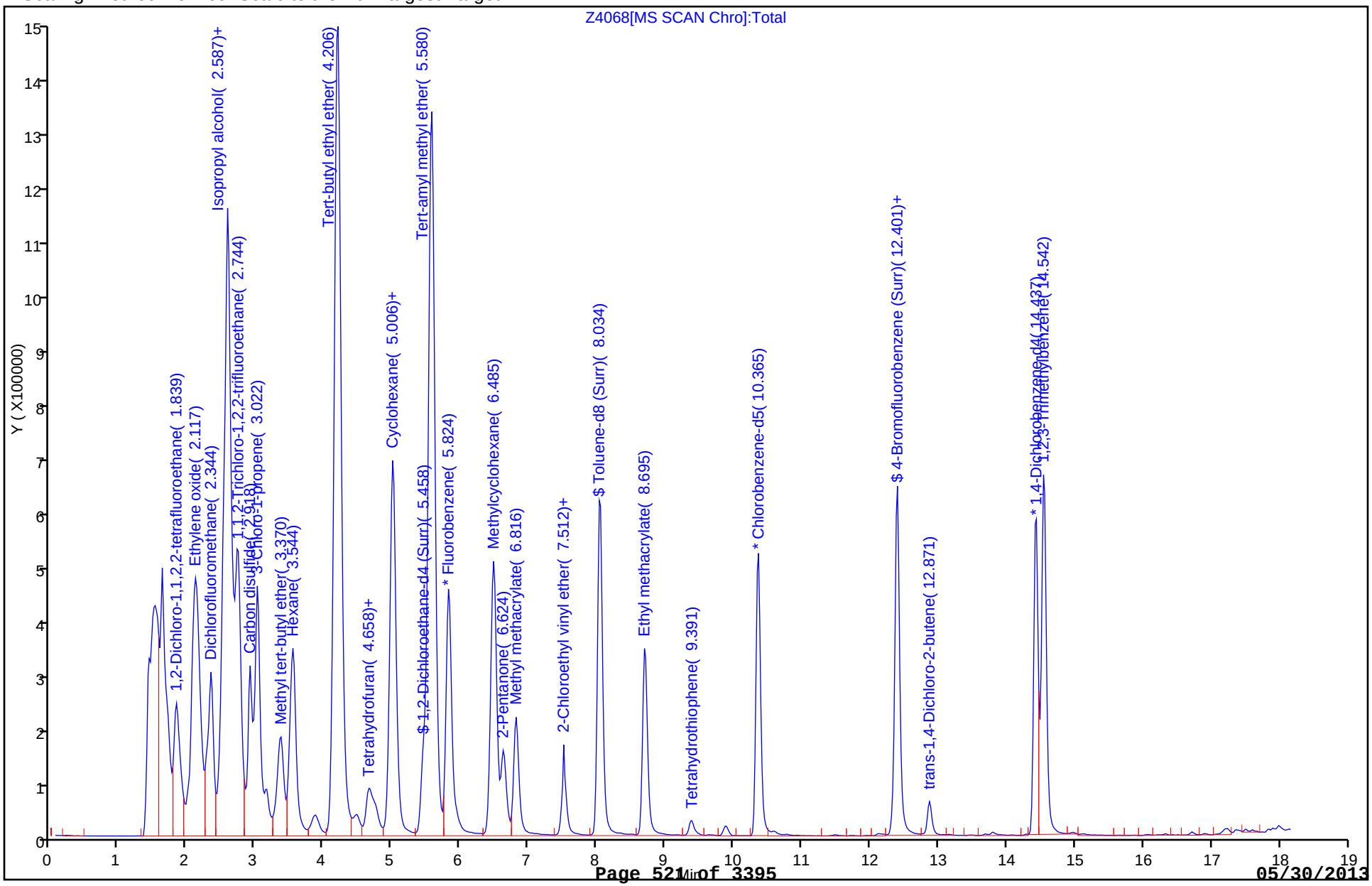
Report Date: 09-May-2013 06:27:36 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4068.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 23:46:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 42 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4069.D | | |
| Lims ID: | std30 | Client ID: | |
| Inject. Date: | 09-May-2013 00:09:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | std30 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 16 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 43 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:37 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:11:58 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.829 | 5.824 | 0.005 | 97 | 1170243 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.371 | 10.365 | 0.006 | 89 | 251468 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.425 | 14.437 | -0.012 | 98 | 449354 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.011 | 5.006 | 0.005 | 81 | 1817933 | 29.6 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.464 | 5.458 | 0.006 | 90 | 824497 | 29.8 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.039 | 8.034 | 0.005 | 93 | 3574504 | 29.5 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.389 | 12.401 | -0.012 | 85 | 2062833 | 29.4 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.845 | 1.839 | 0.006 | 93 | 1539192 | 31.2 | |
| 29 Ethylene oxide | 43 | 2.123 | 2.117 | 0.006 | 99 | 1932733 | 3881.2 | |
| 32 Dichlorofluoromethane | 67 | 2.349 | 2.344 | 0.005 | 97 | 2334457 | 29.6 | |
| 37 Isopropyl alcohol | 45 | 2.506 | 2.500 | 0.006 | 71 | 410296 | 597.5 | |
| 36 Ethyl ether | 59 | 2.506 | 2.500 | 0.006 | 89 | 619557 | 29.9 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.558 | 2.553 | 0.006 | 97 | 1686326 | 29.9 | |
| 40 Propene oxide | 58 | 2.593 | 2.587 | 0.006 | 96 | 3191781 | 1524.6 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.610 | 2.605 | 0.005 | 76 | 2604364 | 29.9 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.749 | 2.744 | 0.005 | 90 | 1384720 | 30.2 | |
| 46 Carbon disulfide | 76 | 2.923 | 2.918 | 0.005 | 99 | 3304063 | 29.4 | |
| 48 3-Chloro-1-propene | 41 | 3.028 | 3.022 | 0.006 | 91 | 1371842 | 29.4 | |
| 54 Methyl tert-butyl ether | 73 | 3.376 | 3.370 | 0.006 | 89 | 1631548 | 30.6 | |
| 55 Hexane | 57 | 3.550 | 3.544 | 0.006 | 95 | 1543457 | 30.1 | |
| 60 Tert-butyl ethyl ether | 59 | 4.211 | 4.206 | 0.005 | 99 | 14246012 | 152.1 | |
| 67 sec-Butyl Alcohol | 45 | 4.663 | 4.658 | 0.005 | 99 | 1119836 | 1180.3 | |
| 70 Tetrahydrofuran | 42 | 4.750 | 4.745 | 0.005 | 90 | 205911 | 59.6 | |
| 72 Cyclohexane | 56 | 5.011 | 5.006 | 0.005 | 84 | 1736131 | 30.1 | |
| 79 Tert-amyl methyl ether | 73 | 5.586 | 5.580 | 0.006 | 97 | 11134249 | 155.0 | |
| 84 Methylcyclohexane | 55 | 6.491 | 6.485 | 0.006 | 92 | 1630860 | 30.0 | |
| 82 2-Pentanone | 43 | 6.630 | 6.624 | 0.006 | 98 | 1556103 | 124.8 | |
| 86 Methyl methacrylate | 100 | 6.821 | 6.816 | 0.005 | 92 | 328574 | 64.7 | |
| 89 2-Nitropropane | 41 | 7.500 | 7.512 | -0.012 | 96 | 113189 | 32.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.517 | 7.512 | 0.005 | 89 | 386060 | 32.0 | |
| 95 Ethyl methacrylate | 69 | 8.700 | 8.695 | 0.005 | 91 | 1681027 | 64.1 | |
| 101 Tetrahydrothiophene | 60 | 9.379 | 9.374 | 0.005 | 94 | 118989 | 32.4 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.337 | 12.332 | 0.005 | 0 | 90303 | 31.2 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.877 | 12.871 | 0.006 | 95 | 116874 | 31.1 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.547 | 14.542 | 0.005 | 98 | 3544235 | 30.5 | |

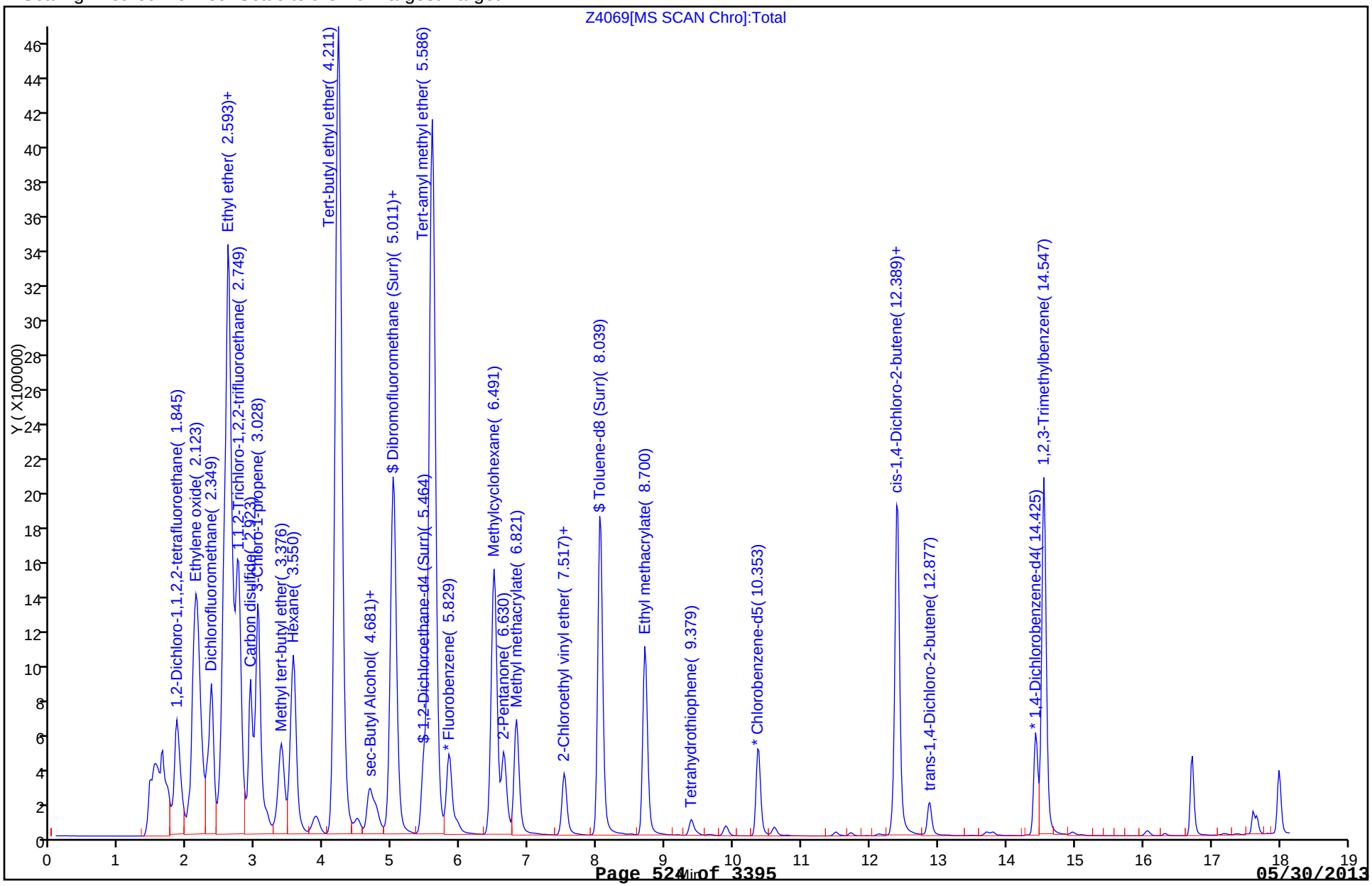
Report Date: 09-May-2013 06:27:37 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4069.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 00:09:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 43 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4070.D | | |
| Lims ID: | std60 | Client ID: | |
| Inject. Date: | 09-May-2013 00:31:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | std60 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 17 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 44 |
| Sublist: | chrom-AQ_VMSZ_8260*sub24 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:38 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:12:08 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.827 | 5.824 | 0.003 | 97 | 1146211 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.369 | 10.365 | 0.004 | 89 | 241930 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.423 | 14.437 | -0.014 | 98 | 424323 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.010 | 5.006 | 0.004 | 81 | 3484909 | 58.0 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.462 | 5.458 | 0.004 | 90 | 1552914 | 57.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.037 | 8.034 | 0.003 | 93 | 6535802 | 56.1 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.387 | 12.401 | -0.014 | 86 | 3602577 | 54.4 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.843 | 1.839 | 0.004 | 93 | 3052150 | 63.2 | |
| 29 Ethylene oxide | 43 | 2.121 | 2.117 | 0.004 | 98 | 3587023 | 7354.4 | |
| 32 Dichlorofluoromethane | 67 | 2.347 | 2.344 | 0.003 | 97 | 4642625 | 60.0 | |
| 37 Isopropyl alcohol | 45 | 2.504 | 2.500 | 0.004 | 83 | 750952 | 1116.5 | |
| 36 Ethyl ether | 59 | 2.504 | 2.500 | 0.004 | 90 | 1172353 | 57.8 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.556 | 2.553 | 0.004 | 97 | 3314572 | 60.0 | |
| 40 Propene oxide | 58 | 2.591 | 2.587 | 0.004 | 96 | 5803180 | 2830.2 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.608 | 2.605 | 0.003 | 78 | 5111881 | 59.9 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.747 | 2.744 | 0.003 | 94 | 2745849 | 61.1 | |
| 46 Carbon disulfide | 76 | 2.921 | 2.918 | 0.003 | 99 | 6486588 | 58.9 | |
| 48 3-Chloro-1-propene | 41 | 3.026 | 3.022 | 0.004 | 90 | 2693044 | 59.0 | |
| 54 Methyl tert-butyl ether | 73 | 3.374 | 3.370 | 0.004 | 90 | 2997266 | 57.5 | |
| 55 Hexane | 57 | 3.548 | 3.544 | 0.004 | 95 | 3004831 | 60.9 | |
| 60 Tert-butyl ethyl ether | 59 | 4.209 | 4.206 | 0.003 | 99 | 27161168 | 296.1 | |
| 67 sec-Butyl Alcohol | 45 | 4.662 | 4.658 | 0.004 | 99 | 1911600 | 2057.1 | |
| 70 Tetrahydrofuran | 42 | 4.766 | 4.745 | 0.021 | 91 | 371856 | 109.9 | |
| 72 Cyclohexane | 56 | 5.010 | 5.006 | 0.004 | 84 | 3399685 | 60.2 | |
| 79 Tert-amyl methyl ether | 73 | 5.584 | 5.580 | 0.004 | 96 | 20652621 | 293.5 | |
| 84 Methylcyclohexane | 55 | 6.489 | 6.485 | 0.004 | 92 | 3140467 | 58.9 | |
| 82 2-Pentanone | 43 | 6.628 | 6.624 | 0.004 | 98 | 2774219 | 227.2 | |
| 86 Methyl methacrylate | 100 | 6.819 | 6.816 | 0.003 | 92 | 597110 | 120.0 | |
| 89 2-Nitropropane | 41 | 7.498 | 7.512 | -0.014 | 96 | 200713 | 59.3 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.515 | 7.512 | 0.003 | 89 | 704846 | 59.6 | |
| 95 Ethyl methacrylate | 69 | 8.699 | 8.695 | 0.003 | 91 | 3032448 | 120.2 | |
| 101 Tetrahydrothiophene | 60 | 9.377 | 9.374 | 0.003 | 93 | 219229 | 62.1 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.335 | 12.332 | 0.003 | 0 | 162081 | 59.2 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.875 | 12.871 | 0.004 | 95 | 210910 | 59.4 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.545 | 14.542 | 0.003 | 99 | 6362144 | 58.0 | |

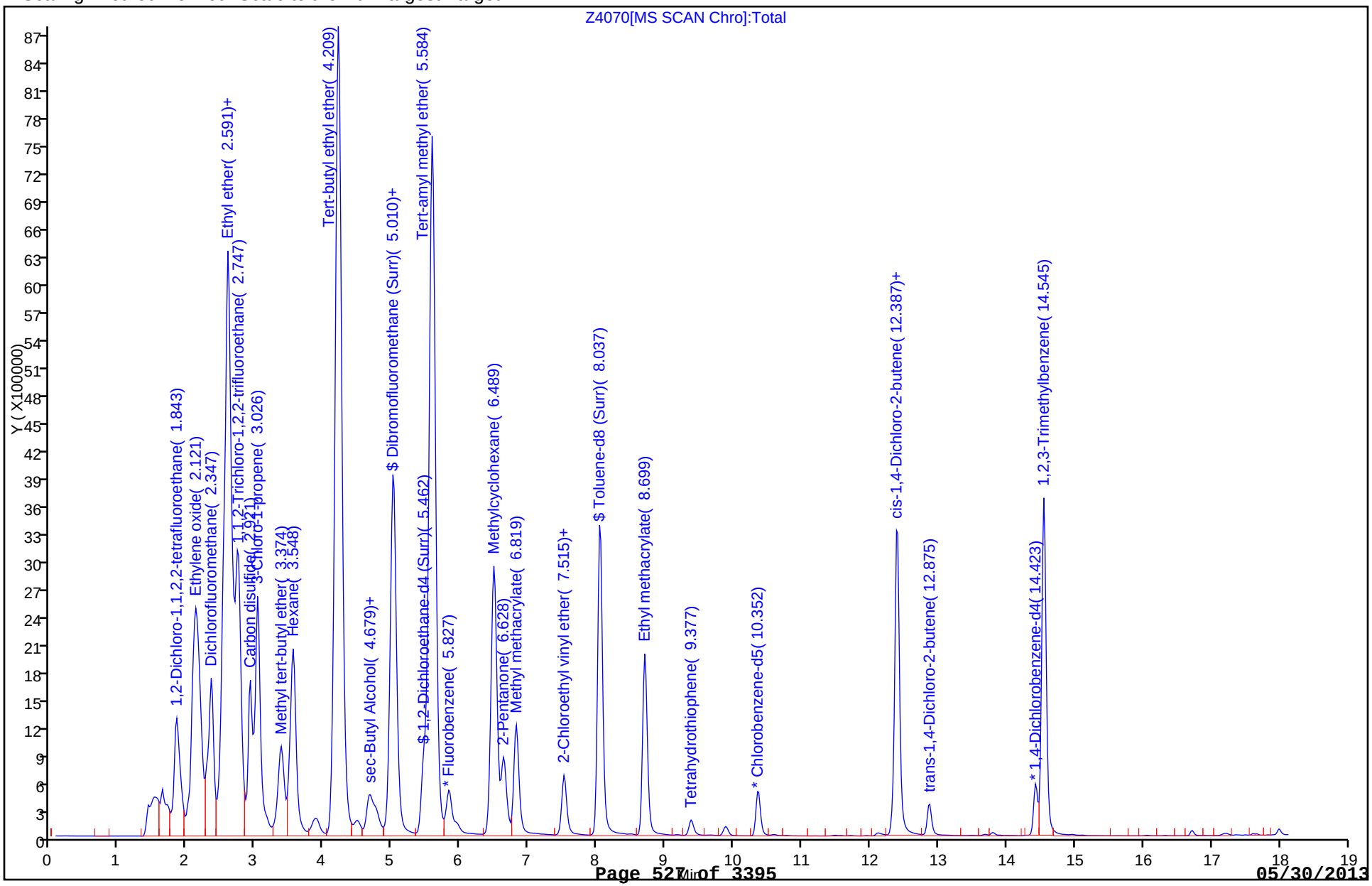
Report Date: 09-May-2013 06:27:38 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4070.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 00:31:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 44 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2013 00:53 Calibration End Date: 05/09/2013 02:44 Calibration ID: 13944

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD01 280-173382/45 | Z4071.D |
| Level 2 | STD02 280-173382/46 | Z4072.D |
| Level 3 | STD05 280-173382/47 | Z4073.D |
| Level 4 | STD10 280-173382/48 | Z4074.D |
| Level 5 | STD30 280-173382/49 | Z4075.D |
| Level 6 | STD60 280-173382/50 | Z4076.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methyl acetate | 0.1098 0.1018 | 0.1182 | 0.1050 | 0.1052 | 0.1009 | Ave | | 0.1068 | | | | 6.0 | | 15.0 | | | |
| Vinyl acetate | 0.4256 0.4348 | 0.4661 | 0.4499 | 0.4490 | 0.4285 | Ave | | 0.4423 | | | | 3.5 | | 15.0 | | | |
| Ethyl acetate | 0.1846 0.1599 | 0.1748 | 0.1674 | 0.1638 | 0.1581 | Ave | | 0.1681 | | | | 6.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-42039-1 Analy Batch No.: 173382

SDG No.:

Instrument ID: VMS_Z GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2013 00:53 Calibration End Date: 05/09/2013 02:44 Calibration ID: 13944

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD01 280-173382/45 | Z4071.D |
| Level 2 | STD02 280-173382/46 | Z4072.D |
| Level 3 | STD05 280-173382/47 | Z4073.D |
| Level 4 | STD10 280-173382/48 | Z4074.D |
| Level 5 | STD30 280-173382/49 | Z4075.D |
| Level 6 | STD60 280-173382/50 | Z4076.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Methyl acetate | FB | Ave | 51293<br>2841051 | 111843 | 242487 | 486829 | 1409542 | 5.00<br>300 | 10.0 | 25.0 | 50.0 | 150 |
| Vinyl acetate | FB | Ave | 79533<br>4853067 | 176474 | 415457 | 830852 | 2393536 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |
| Ethyl acetate | FB | Ave | 34494<br>1784960 | 66173 | 154599 | 303082 | 883069 | 2.00<br>120 | 4.00 | 10.0 | 20.0 | 60.0 |

Curve Type Legend:
Ave = Average ISTD

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4071.D | | |
| Lims ID: | std01 | Client ID: | |
| Inject. Date: | 09-May-2013 00:53:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | std01 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 18 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 45 |
| Sublist: | chrom-AQ_VMSZ_8260*sub28 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:39 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:12:13 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.824 | 0.017 | 99 | 1168018 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 249600 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 97 | 432726 | 12.5 | |
| 49 Methyl acetate | 43 | 3.039 | 3.027 | 0.012 | 98 | 51293 | 5.14 | |
| 57 Vinyl acetate | 43 | 3.840 | 3.828 | 0.012 | 97 | 79533 | 1.92 | |
| 65 Ethyl acetate | 43 | 4.483 | 4.489 | -0.006 | 95 | 34494 | 2.20 | |

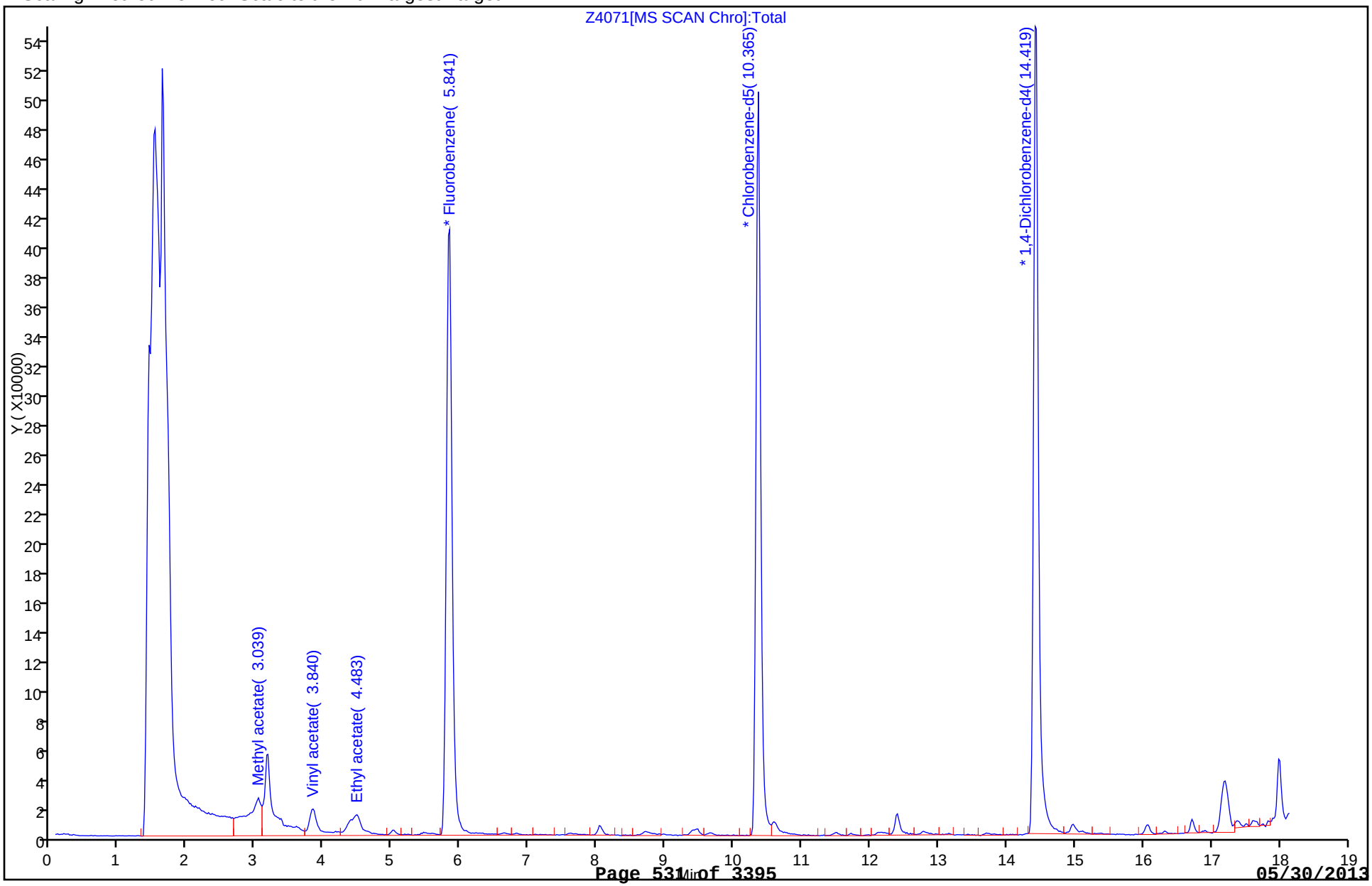
Report Date: 09-May-2013 06:27:39 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4071.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 00:53:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 45 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4072.D | | |
| Lims ID: | std02 | Client ID: | |
| Inject. Date: | 09-May-2013 01:15:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | std02 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 19 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 46 |
| Sublist: | chrom-AQ_VMSZ_8260*sub28 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:40 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:12:19 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.824 | 5.824 | 0.0 | 98 | 1183182 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 257929 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 97 | 448849 | 12.5 | |
| 49 Methyl acetate | 43 | 3.040 | 3.027 | 0.013 | 97 | 111843 | 11.1 | |
| 57 Vinyl acetate | 43 | 3.823 | 3.828 | -0.005 | 96 | 176474 | 4.22 | |
| 65 Ethyl acetate | 43 | 4.484 | 4.489 | -0.005 | 94 | 66173 | 4.16 | |

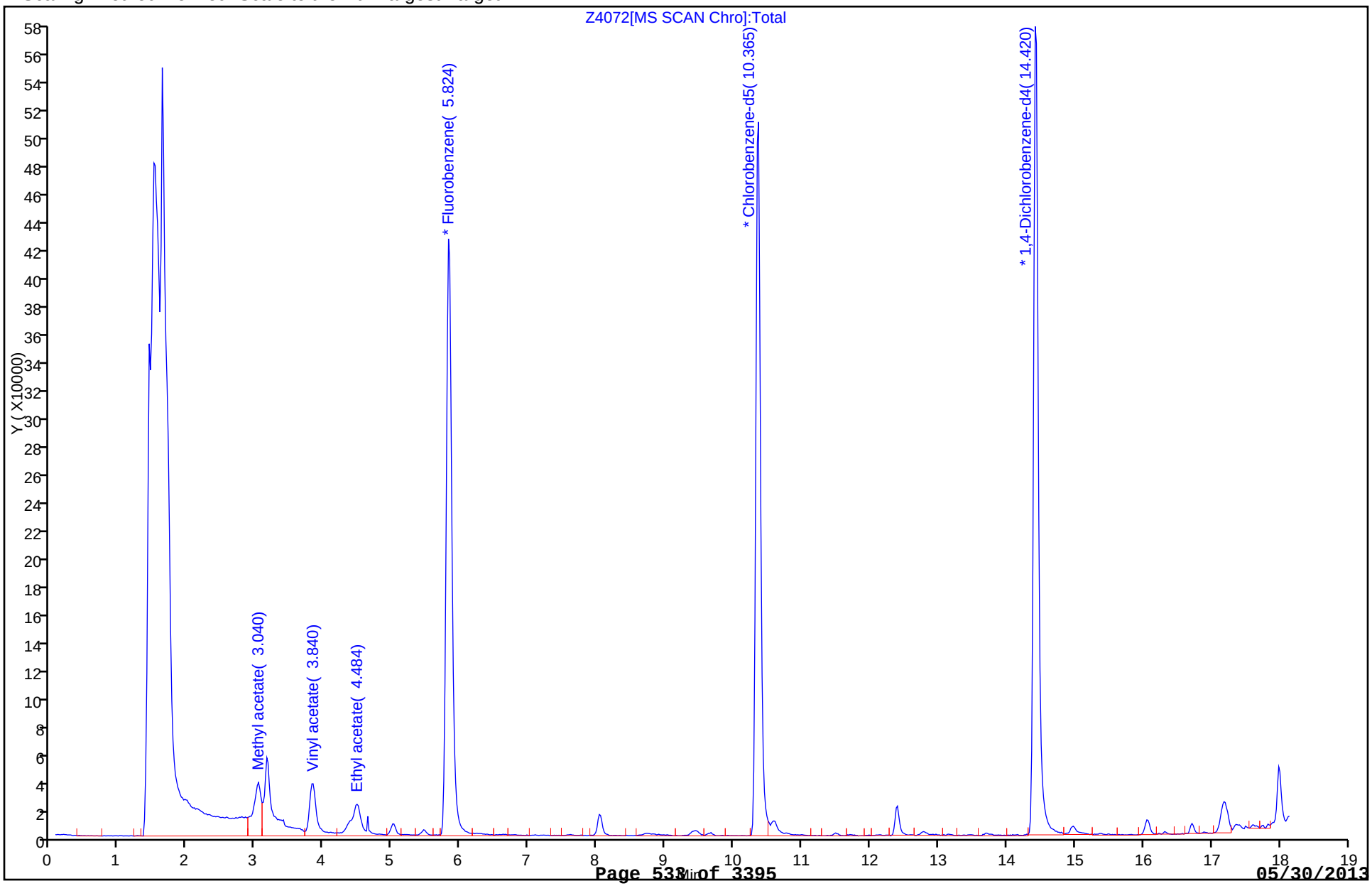
Report Date: 09-May-2013 06:27:40 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4072.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 01:15:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 46 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4073.D | | |
| Lims ID: | std05 | Client ID: | |
| Inject. Date: | 09-May-2013 01:37:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | std05 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 20 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 47 |
| Sublist: | chrom-AQ_VMSZ_8260*sub28 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:41 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:12:23 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.830 | 5.824 | 0.006 | 98 | 1154339 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.354 | 10.365 | -0.011 | 89 | 246221 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.426 | 14.437 | -0.011 | 97 | 435392 | 12.5 | |
| 49 Methyl acetate | 43 | 3.028 | 3.027 | 0.001 | 98 | 242487 | 24.6 | |
| 57 Vinyl acetate | 43 | 3.829 | 3.828 | 0.001 | 97 | 415457 | 10.2 | |
| 65 Ethyl acetate | 43 | 4.490 | 4.489 | 0.001 | 98 | 154599 | 9.96 | |

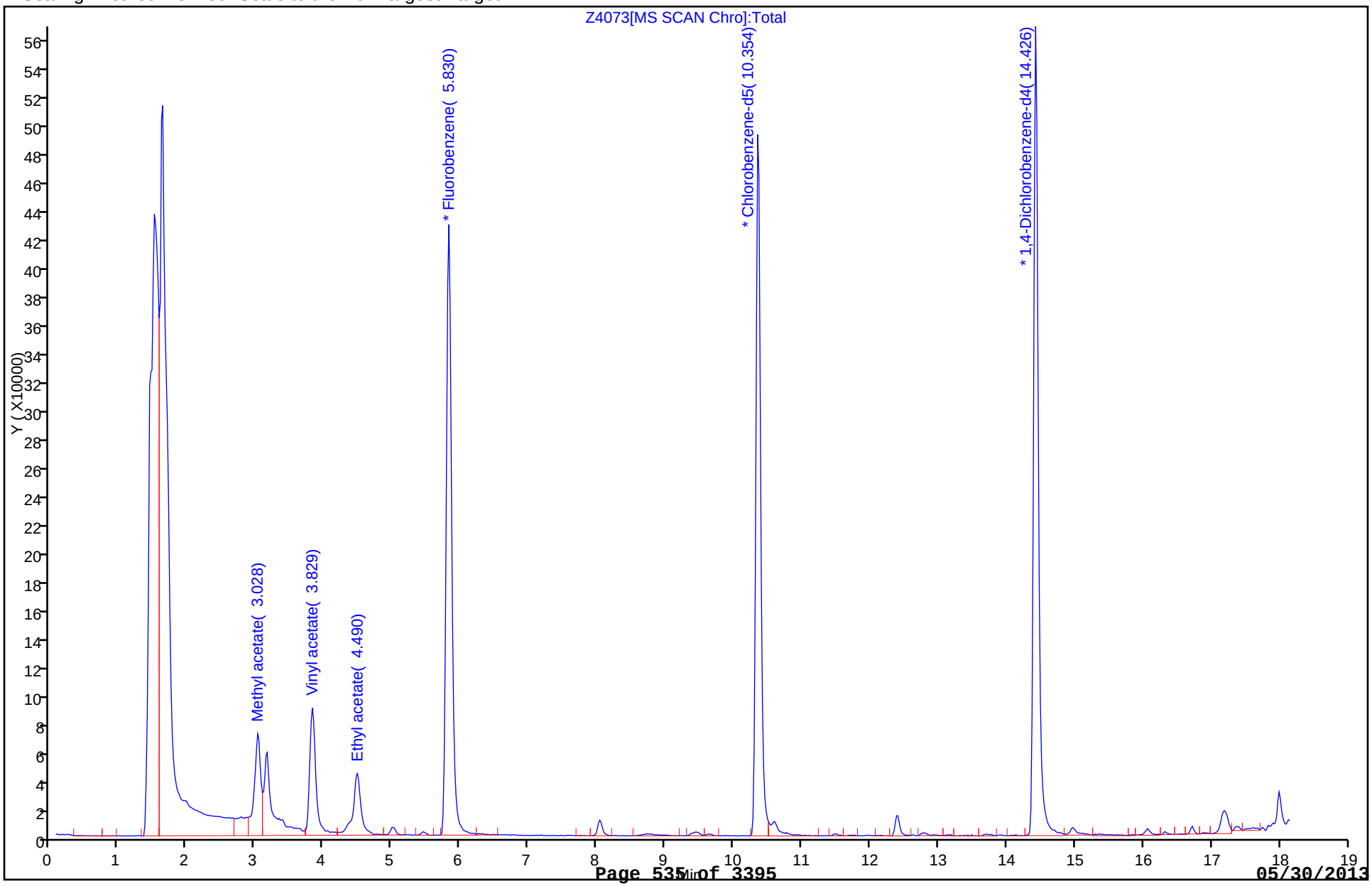
Report Date: 09-May-2013 06:27:41 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4073.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 01:37:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 47 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4074.D | | |
| Lims ID: | std10 | Client ID: | |
| Inject. Date: | 09-May-2013 02:00:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | std10 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 21 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 48 |
| Sublist: | chrom-AQ_VMSZ_8260*sub28 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:42 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:12:30 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.829 | 5.829 | 0.0 | 98 | 1156523 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.353 | 10.353 | 0.0 | 89 | 248691 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.425 | 14.425 | 0.0 | 97 | 440952 | 12.5 | |
| 49 Methyl acetate | 43 | 3.027 | 3.027 | 0.0 | 99 | 486829 | 49.3 | |
| 57 Vinyl acetate | 43 | 3.828 | 3.828 | 0.0 | 97 | 830852 | 20.3 | |
| 65 Ethyl acetate | 43 | 4.489 | 4.489 | 0.0 | 99 | 303082 | 19.5 | |

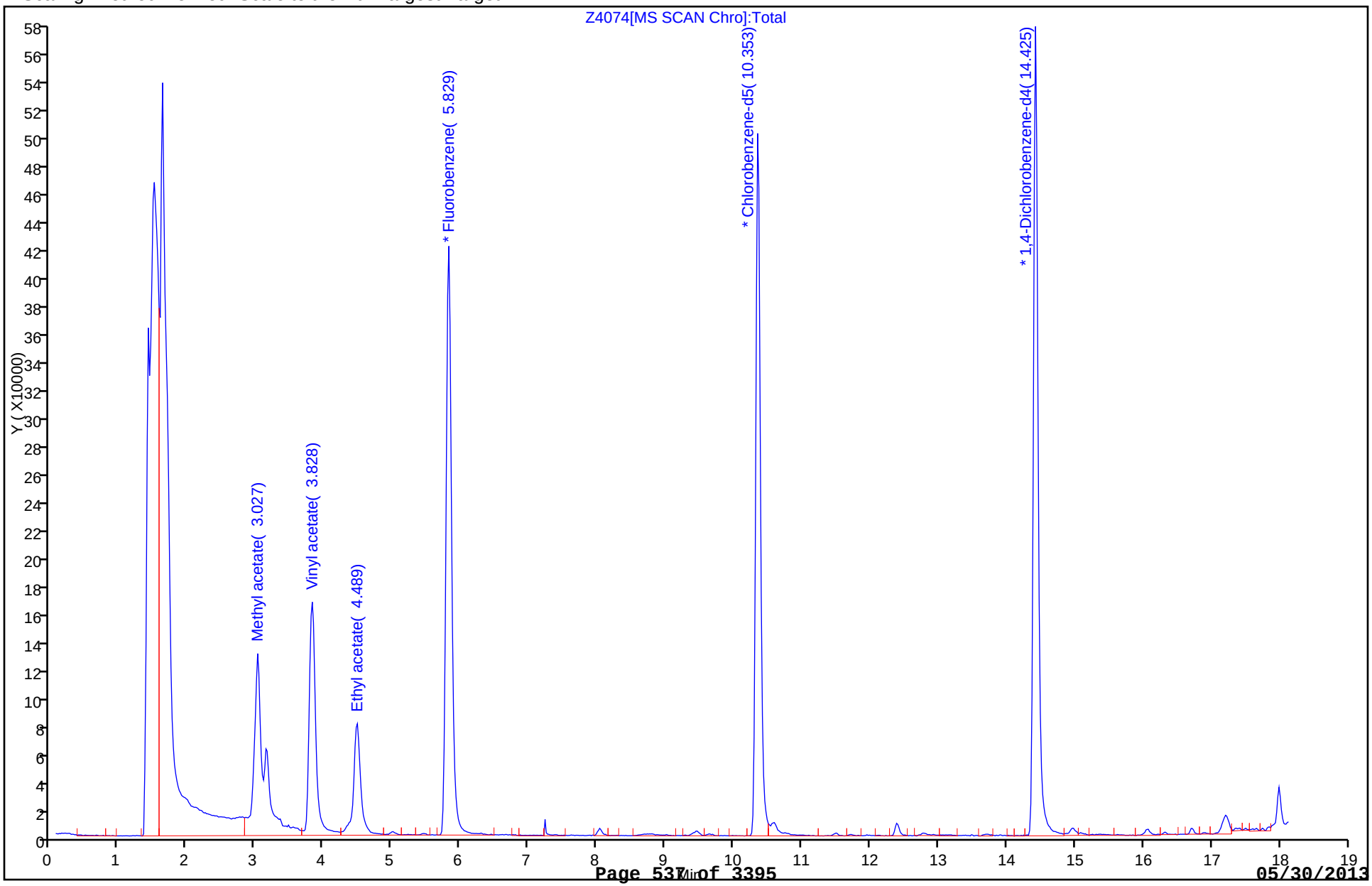
Report Date: 09-May-2013 06:27:42 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4074.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 02:00:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 48 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4075.D | | |
| Lims ID: | std30 | Client ID: | |
| Inject. Date: | 09-May-2013 02:22:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | std30 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 22 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 49 |
| Sublist: | chrom-AQ_VMSZ_8260*sub28 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:43 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:12:34 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.826 | 5.829 | -0.003 | 98 | 1163841 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.350 | 10.353 | -0.003 | 89 | 248398 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.422 | 14.425 | -0.003 | 97 | 441548 | 12.5 | |
| 49 Methyl acetate | 43 | 3.042 | 3.027 | 0.015 | 99 | 1409542 | 141.7 | |
| 57 Vinyl acetate | 43 | 3.825 | 3.828 | -0.003 | 97 | 2393536 | 58.1 | |
| 65 Ethyl acetate | 43 | 4.486 | 4.489 | -0.003 | 100 | 883069 | 56.4 | |

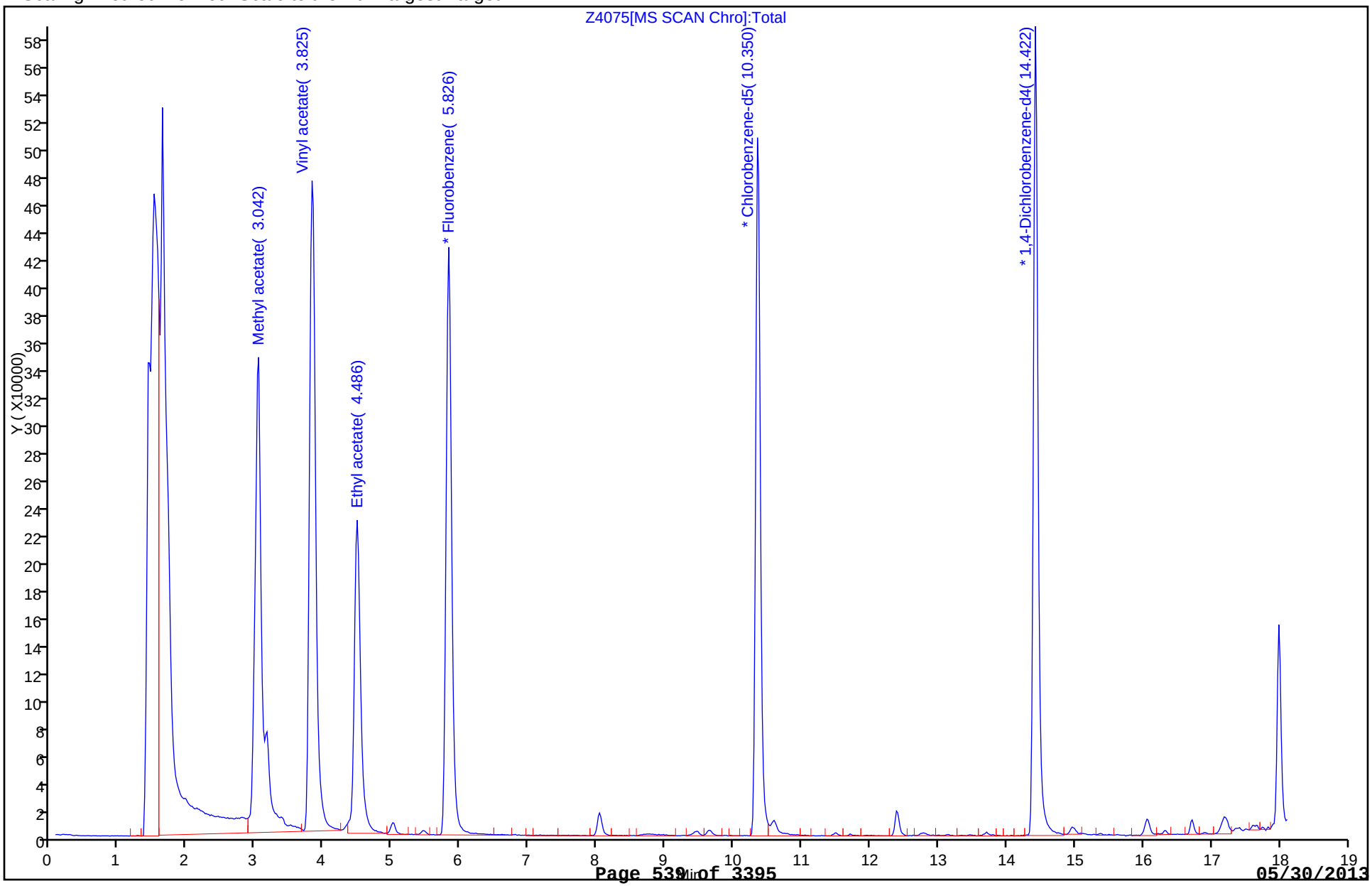
Report Date: 09-May-2013 06:27:43 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4075.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 02:22:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 49 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Lims ID: | std60 | Client ID: | |
| Inject. Date: | 09-May-2013 02:44:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | std60 | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 23 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 50 |
| Sublist: | chrom-AQ_VMSZ_8260*sub28 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:44 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:12:39 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.830 | 5.829 | 0.001 | 98 | 1162794 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.354 | 10.353 | 0.001 | 89 | 250742 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.426 | 14.425 | 0.001 | 97 | 443779 | 12.5 | |
| 49 Methyl acetate | 43 | 3.046 | 3.027 | 0.019 | 99 | 2841051 | 285.9 | |
| 57 Vinyl acetate | 43 | 3.829 | 3.828 | 0.001 | 97 | 4853067 | 118.0 | |
| 65 Ethyl acetate | 43 | 4.490 | 4.489 | 0.001 | 100 | 1784960 | 114.2 | |

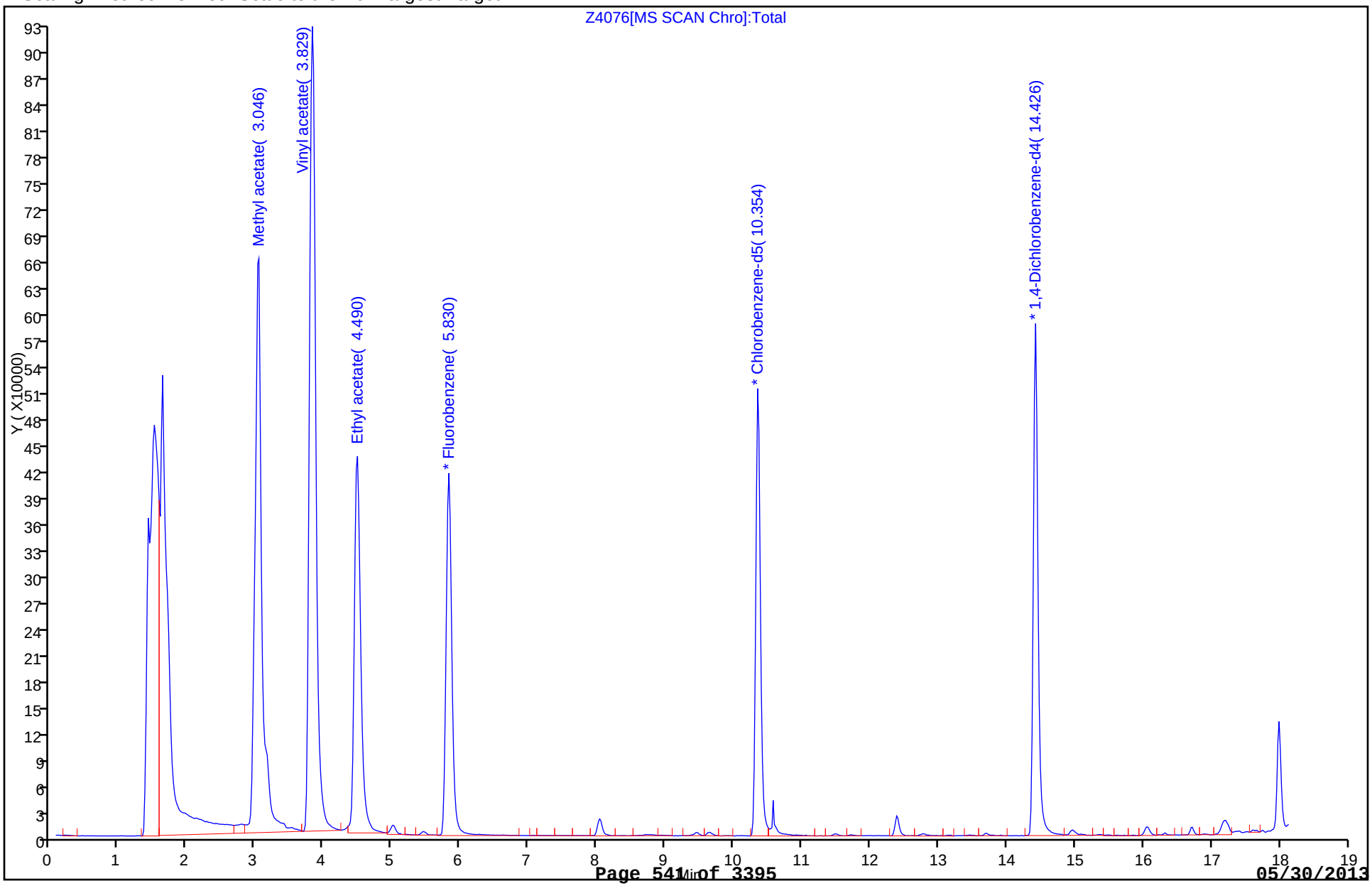
Report Date: 09-May-2013 06:27:44 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 02:44:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 50 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-162427/23 Calibration Date: 02/28/2013 13:12

Instrument ID: VMS_G2 Calib Start Date: 02/28/2013 10:31

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 02/28/2013 12:04

Lab File ID: g2_5583.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acetate | Ave | 0.0564 | 0.0694 | | 61.5 | 50.0 | 23.0 | 55.0 |
| Vinyl acetate | Ave | 0.1727 | 0.2041 | | 23.6 | 20.0 | 18.2 | 55.0 |
| Ethyl acetate | Ave | 0.0794 | 0.0727 | | 18.3 | 20.0 | -8.4 | 55.0 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5583.D | | |
| Lims ID: | icv | Client ID: | |
| Inject. Date: | 28-Feb-2013 13:12:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICV | | |
| Sample ID: | icv a | | |
| Misc. Info.: | | | |
| Operator: | ilczyszynd | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 25 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 23 |
| Sublist: | | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-Mar-2013 11:29:59 | Calib Date: | 28-Feb-2013 12:04:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 01-Mar-2013 11:29:59 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.663 | 7.655 | 0.008 | 99 | 1074772 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.922 | 9.922 | 0.0 | 86 | 192738 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.760 | 11.752 | 0.008 | 97 | 299703 | 12.5 | |
| 48 Methyl acetate | 43 | 5.641 | 5.641 | 0.0 | 98 | 298224 | 61.5 | |
| 57 Vinyl acetate | 43 | 6.275 | 6.268 | 0.007 | 97 | 351001 | 23.6 | |
| 63 Ethyl acetate | 43 | 6.712 | 6.697 | 0.015 | 97 | 125050 | 18.3 | |

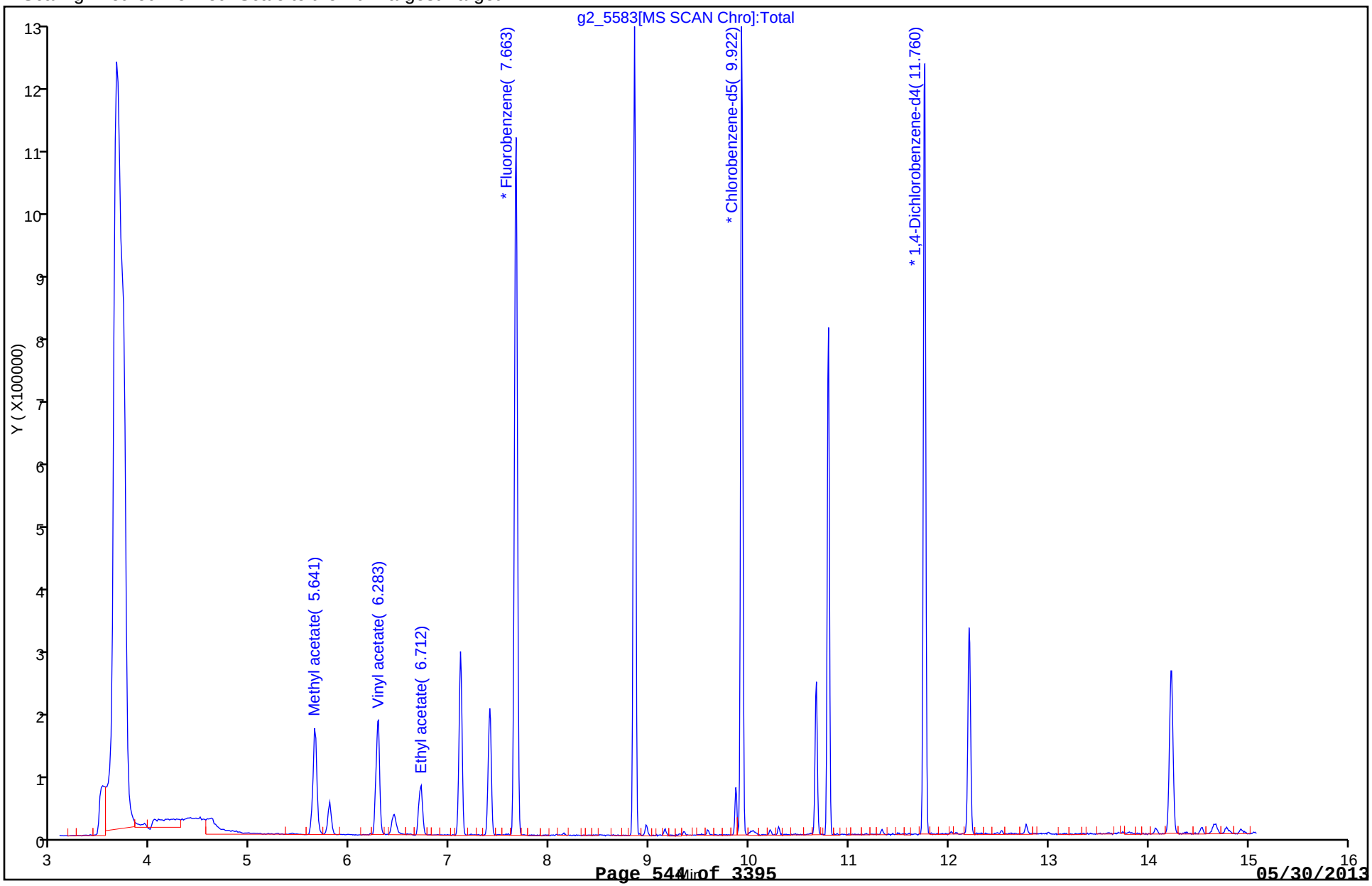
Report Date: 01-Mar-2013 11:30:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5583.D

| | | | |
|---|---|---|---|
| Injection Date: | 28-Feb-2013 13:12:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 23 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-171996/10 Calibration Date: 04/30/2013 21:13

Instrument ID: VMS_G2 Calib Start Date: 04/30/2013 19:18

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 04/30/2013 20:53

Lab File ID: g2_7671.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.5234 | 0.5741 | | 11.0 | 10.0 | 9.7 | 50.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.4099 | 0.4517 | | 11.0 | 10.0 | 10.2 | 50.0 |
| Ethyl ether | Ave | 0.1208 | 0.1361 | | 11.3 | 10.0 | 12.7 | 35.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.1998 | 0.2176 | | 10.9 | 10.0 | 8.9 | 35.0 |
| Isopropyl alcohol | Ave | 0.0041 | 0.0046 | | 221 | 200 | 10.7 | 50.0 |
| Allyl chloride | Ave | 0.3372 | 0.3719 | | 11.0 | 10.0 | 10.3 | 35.0 |
| Carbon disulfide | Ave | 1.100 | 1.216 | | 11.0 | 10.0 | 10.5 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.3706 | 0.4116 | | 11.1 | 10.0 | 11.1 | 20.0 |
| Hexane | Ave | 2.451 | 2.607 | | 10.6 | 10.0 | 6.4 | 20.0 |
| Tert-butyl ethyl ether | Ave | 0.5059 | 0.5829 | | 57.6 | 50.0 | 15.2 | 35.0 |
| Tetrahydrofuran | Ave | 0.0194 | 0.0208 | | 21.5 | 20.0 | 7.5 | 55.0 |
| Cyclohexane | Ave | 0.5513 | 0.6064 | | 11.0 | 10.0 | 10.0 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.3843 | 0.4430 | | 57.6 | 50.0 | 15.3 | 35.0 |
| 2-Pentanone | Ave | 0.0612 | 0.0905 | | 59.2 | 40.0 | 47.9 | 55.0 |
| Methyl methacrylate | Lin2 | | 0.0262 | | 22.1 | 20.0 | 10.6 | 35.0 |
| Methylcyclohexane | Ave | 0.4378 | 0.4879 | | 11.1 | 10.0 | 11.4 | 35.0 |
| 2-Nitropropane | Ave | 0.0145 | 0.0150 | | 10.4 | 10.0 | 3.7 | 55.0 |
| 2-Chloroethyl vinyl ether | Lin2 | | 0.0737 | | 11.4 | 10.0 | 14.0 | 55.0 |
| Ethyl methacrylate | Lin2 | | 0.7741 | | 21.1 | 20.0 | 5.3 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0482 | 0.0589 | | 12.2 | 10.0 | 22.1 | 55.0 |
| trans-1,4-Dichloro-2-butene | Lin2 | | 0.0739 | | 11.1 | 10.0 | 11.1 | 55.0 |
| Dibromofluoromethane (Surr) | Ave | 0.1781 | 0.1796 | | 10.1 | 10.0 | 0.9 | 35.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.1521 | 0.1536 | | 10.1 | 10.0 | 1.0 | 35.0 |
| Toluene-d8 (Surr) | Ave | 4.453 | 4.503 | | 10.1 | 10.0 | 1.1 | 35.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 1.053 | 1.059 | | 10.1 | 10.0 | 0.6 | 35.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7671.D
Lims ID: ICV Client ID:
Inject. Date: 30-Apr-2013 21:13:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 18
Lims Batch ID: 171996 Lims Sample ID: 10
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m
Last Update: 01-May-2013 00:02:45 Calib Date: 30-Apr-2013 20:53:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPHEATHER

First Level Reviewer: dukesa Date: 01-May-2013 00:02:45

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1808667 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.908 | 9.908 | 0.0 | 85 | 357013 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.738 | 11.738 | 0.0 | 97 | 449461 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.091 | 7.091 | -0.001 | 58 | 259917 | 10.1 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 100 | 222247 | 10.1 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 93 | 1286147 | 10.1 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 85 | 380725 | 10.1 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.105 | 4.105 | 0.0 | 94 | 340906 | 10.4 | |
| 30 Ethylene oxide | 43 | 4.635 | 4.621 | 0.014 | 99 | 954696 | 1268.1 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 83 | 830709 | 11.0 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 84 | 421522 | 10.7 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 90 | 196902 | 11.3 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.166 | 5.180 | -0.014 | 82 | 653573 | 11.0 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.418 | -0.001 | 88 | 314852 | 10.9 | |
| 44 Isopropyl alcohol | 45 | 5.417 | 5.418 | -0.001 | 41 | 132440 | 221.4 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 82 | 538081 | 11.0 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 98 | 1759092 | 11.0 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 89 | 595489 | 11.1 | |
| 56 Hexane | 57 | 6.190 | 6.190 | 0.0 | 90 | 744721 | 10.6 | |
| 61 Tert-butyl ethyl ether | 59 | 6.569 | 6.569 | 0.0 | 98 | 4217130 | 57.6 | |
| 71 Tetrahydrofuran | 42 | 6.990 | 6.991 | 0.0 | 87 | 60288 | 21.5 | |
| 74 Cyclohexane | 56 | 7.276 | 7.277 | -0.001 | 89 | 877461 | 11.0 | |
| 78 Tert-amyl methyl ether | 73 | 7.469 | 7.470 | -0.001 | 99 | 3204926 | 57.6 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 99 | 523746 | 59.2 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 89 | 75825 | 22.1 | |
| 85 Methylcyclohexane | 55 | 8.142 | 8.142 | 0.0 | 89 | 705944 | 11.1 | |
| 89 2-Nitropropane | 41 | 8.420 | 8.421 | -0.001 | 50 | 21753 | 10.4 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.428 | 8.421 | 0.007 | 91 | 106563 | 11.4 | |
| 94 Ethyl methacrylate | 69 | 8.964 | 8.964 | 0.0 | 89 | 442151 | 21.1 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.514 | 9.515 | -0.001 | 86 | 43012 | 10.5 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.644 | 10.644 | 0.0 | 1 | 21176 | 12.2 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.859 | 10.859 | 0.0 | 79 | 26588 | 11.1 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.767 | 11.767 | 0.0 | 98 | 1320360 | 11.4 | |

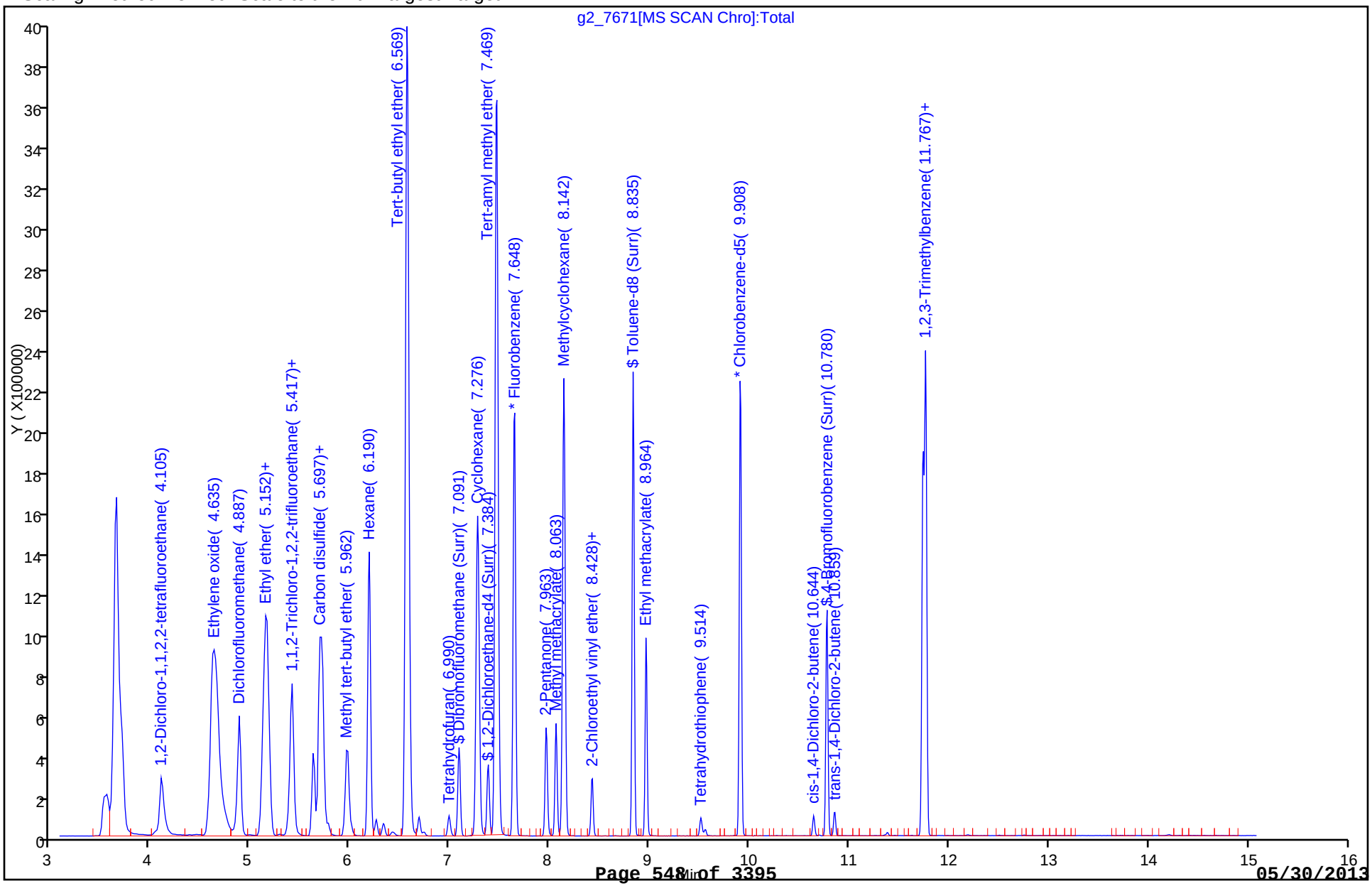
Report Date: 01-May-2013 00:02:45 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7671.D

| | | | |
|---|---|---|---|
| Injection Date: | 30-Apr-2013 21:13:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 10 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173584/20 Calibration Date: 05/10/2013 01:01

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 19:32

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2013 21:47

Lab File ID: g2_8135.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Lin1 | | 0.2658 | | 47.9 | 50.0 | -4.2 | 20.0 |
| Chloromethane | Ave | 0.2773 | 0.2979 | | 53.7 | 50.0 | 7.4 | 20.0 |
| Vinyl chloride | Ave | 0.2896 | 0.3140 | | 54.2 | 50.0 | 8.4 | 20.0 |
| Bromomethane | Ave | 0.2238 | 0.2236 | | 50.0 | 50.0 | -0.0 | 20.0 |
| Chloroethane | Ave | 0.1882 | 0.1934 | | 51.4 | 50.0 | 2.8 | 20.0 |
| Ethanol | Ave | 0.0027 | 0.0031 | | 2830 | 2500 | 13.3 | 50.0 |
| Trichlorofluoromethane | Ave | 0.3498 | 0.3634 | | 51.9 | 50.0 | 3.9 | 20.0 |
| Acrolein | Ave | 0.0305 | 0.0346 | | 568 | 500 | 13.5 | 55.0 |
| Acetone | Ave | 0.0909 | 0.0927 | | 204 | 200 | 2.0 | 20.0 |
| 1,1-Dichloroethene | Lin2 | | 0.2609 | | 59.5 | 50.0 | 19.0 | 20.0 |
| Acetonitrile | Ave | 0.0294 | 0.0296 | | 504 | 501 | 0.6 | 55.0 |
| Iodomethane | Ave | 0.3053 | 0.3879 | | 63.5 | 50.0 | 27.1 | 35.0 |
| 2-Methyl-2-propanol | Ave | 0.0302 | 0.0352 | | 1170 | 1000 | 16.6 | 50.0 |
| Methylene Chloride | Ave | 0.3127 | 0.3042 | | 48.6 | 50.0 | -2.7 | 20.0 |
| Acrylonitrile | Ave | 0.0932 | 0.0756 | | 406 | 500 | -18.9 | 55.0 |
| trans-1,2-Dichloroethene | Ave | 0.2768 | 0.3235 | | 58.4 | 50.0 | 16.9 | 20.0 |
| Isopropyl ether | Ave | 0.2084 | 0.2422 | | 291 | 250 | 16.2 | 35.0 |
| 1,1-Dichloroethane | Ave | 0.4265 | 0.4798 | | 56.2 | 50.0 | 12.5 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.3605 | 0.4560 | | 63.2 | 50.0 | 26.5 | 35.0 |
| 2-Butanone (MEK) | Ave | 0.1250 | 0.1270 | | 203 | 200 | 1.6 | 20.0 |
| Propionitrile | Ave | 0.0352 | 0.0393 | | 559 | 500 | 11.8 | 35.0 |
| cis-1,2-Dichloroethene | Ave | 0.2596 | 0.2958 | | 57.0 | 50.0 | 13.9 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.3123 | 0.3691 | | 59.1 | 50.0 | 18.2 | 20.0 |
| Methacrylonitrile | Ave | 0.1486 | 0.1634 | | 550 | 500 | 10.0 | 50.0 |
| Chlorobromomethane | Ave | 0.1204 | 0.1360 | | 56.5 | 50.0 | 13.0 | 20.0 |
| Chloroform | Ave | 0.4043 | 0.4483 | | 55.4 | 50.0 | 10.9 | 20.0 |
| Isobutyl alcohol | Ave | 0.0102 | 0.0112 | | 1100 | 1000 | 10.3 | 50.0 |
| 1,1,1-Trichloroethane | Ave | 0.3221 | 0.3685 | | 57.2 | 50.0 | 14.4 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.3458 | 0.3706 | | 53.6 | 50.0 | 7.2 | 20.0 |
| Carbon tetrachloride | Ave | 0.2744 | 0.3003 | | 54.7 | 50.0 | 9.5 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.3222 | 0.3466 | | 53.8 | 50.0 | 7.6 | 20.0 |
| Benzene | Ave | 0.9567 | 1.071 | | 56.0 | 50.0 | 12.0 | 20.0 |
| Trichloroethene | Ave | 0.2345 | 0.2627 | | 56.0 | 50.0 | 12.0 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.2397 | 0.2701 | | 56.3 | 50.0 | 12.7 | 20.0 |
| 1,4-Dioxane | Ave | 0.0022 | 0.0026 | | 2920 | 2500 | 16.7 | 55.0 |
| Dibromomethane | Ave | 0.1377 | 0.1540 | | 55.9 | 50.0 | 11.9 | 20.0 |
| Dichlorobromomethane | Ave | 0.2959 | 0.3222 | | 54.4 | 50.0 | 8.9 | 20.0 |
| cis-1,3-Dichloropropene | Lin2 | | 1.850 | | 55.1 | 50.0 | 10.3 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.2484 | 0.2546 | | 205 | 200 | 2.5 | 20.0 |
| Toluene | Ave | 1.005 | 1.142 | | 56.8 | 50.0 | 13.7 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.3683 | | 51.7 | 50.0 | 3.4 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173584/20 Calibration Date: 05/10/2013 01:01

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 19:32

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2013 21:47

Lab File ID: g2_8135.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | Ave | 0.2015 | 0.2190 | | 54.3 | 50.0 | 8.7 | 20.0 |
| 2-Hexanone | Ave | 0.7863 | 0.8223 | | 209 | 200 | 4.6 | 20.0 |
| 1,3-Dichloropropane | Ave | 1.602 | 1.778 | | 55.5 | 50.0 | 11.0 | 20.0 |
| Tetrachloroethene | Ave | 0.8092 | 0.9057 | | 56.0 | 50.0 | 11.9 | 20.0 |
| Chlorodibromomethane | Ave | 0.8987 | 1.022 | | 56.9 | 50.0 | 13.8 | 20.0 |
| Ethylene Dibromide | Ave | 0.8964 | 1.015 | | 56.6 | 50.0 | 13.3 | 20.0 |
| 1-Chlorohexane | Ave | 1.418 | 1.631 | | 57.5 | 50.0 | 15.0 | 35.0 |
| Chlorobenzene | Ave | 2.835 | 3.168 | | 55.9 | 50.0 | 11.8 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.9879 | 1.058 | | 53.5 | 50.0 | 7.1 | 20.0 |
| Ethylbenzene | Ave | 1.614 | 1.850 | | 57.3 | 50.0 | 14.7 | 20.0 |
| m-Xylene & p-Xylene | Ave | 1.962 | 2.245 | | 114 | 100 | 14.4 | 20.0 |
| o-Xylene | Ave | 1.952 | 2.221 | | 56.9 | 50.0 | 13.8 | 20.0 |
| Styrene | Ave | 3.217 | 3.673 | | 57.1 | 50.0 | 14.2 | 20.0 |
| Bromoform | Lin1 | | 0.6021 | | 48.7 | 50.0 | -2.6 | 20.0 |
| Isopropylbenzene | Ave | 3.222 | 3.775 | | 58.6 | 50.0 | 17.2 | 20.0 |
| Cyclohexanone | Ave | 0.0396 | 0.0847 | | 2670 | 1250 | 113.7* | 55.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.8102 | 0.9240 | | 57.0 | 50.0 | 14.0 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2304 | 0.2573 | | 55.8 | 50.0 | 11.7 | 20.0 |
| Bromobenzene | Ave | 0.7674 | 0.8583 | | 55.9 | 50.0 | 11.8 | 20.0 |
| N-Propylbenzene | Ave | 0.9009 | 1.021 | | 56.7 | 50.0 | 13.3 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.797 | 3.087 | | 55.2 | 50.0 | 10.4 | 20.0 |
| 2-Chlorotoluene | Ave | 0.7710 | 0.8676 | | 56.3 | 50.0 | 12.5 | 20.0 |
| 4-Chlorotoluene | Ave | 0.7571 | 0.8722 | | 57.6 | 50.0 | 15.2 | 20.0 |
| tert-Butylbenzene | Ave | 2.603 | 3.045 | | 58.5 | 50.0 | 17.0 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.653 | 3.092 | | 58.3 | 50.0 | 16.5 | 20.0 |
| sec-Butylbenzene | Ave | 0.7430 | 0.8264 | | 55.6 | 50.0 | 11.2 | 20.0 |
| 4-Isopropyltoluene | Ave | 3.015 | 3.331 | | 55.2 | 50.0 | 10.5 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.443 | 1.639 | | 56.8 | 50.0 | 13.6 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.456 | 1.673 | | 57.5 | 50.0 | 14.9 | 20.0 |
| n-Butylbenzene | Ave | 2.744 | 3.271 | | 59.6 | 50.0 | 19.2 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.371 | 1.558 | | 56.8 | 50.0 | 13.7 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1449 | 0.1595 | | 55.0 | 50.0 | 10.1 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9126 | 1.069 | | 58.5 | 50.0 | 17.1 | 20.0 |
| Hexachlorobutadiene | Ave | 0.4370 | 0.5058 | | 57.9 | 50.0 | 15.7 | 20.0 |
| Naphthalene | Ave | 2.477 | 2.898 | | 58.5 | 50.0 | 17.0 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.8611 | 0.999 | | 58.0 | 50.0 | 16.0 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8135.D
Lims ID: ICV Client ID:
Inject. Date: 10-May-2013 01:01:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV M
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 27
Lims Batch ID: 173584 Lims Sample ID: 20
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 10-May-2013 16:36:35 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPHEATHER

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2344615 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.905 | 0.007 | 83 | 522743 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 94 | 787849 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 99 | 623071 | 47.9 | |
| 27 Chloromethane | 50 | 4.144 | 4.158 | -0.014 | 99 | 698503 | 53.7 | |
| 28 Vinyl chloride | 62 | 4.297 | 4.297 | 0.0 | 99 | 736081 | 54.2 | |
| 31 Bromomethane | 94 | 4.661 | 4.674 | -0.014 | 88 | 524229 | 50.0 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 95 | 453534 | 51.4 | |
| 34 Ethanol | 45 | 4.996 | 4.996 | 0.0 | 27 | 362143 | 2833.5 | |
| 35 Trichlorofluoromethane | 101 | 5.010 | 5.010 | 0.0 | 98 | 852049 | 51.9 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 97 | 810640 | 567.6 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 97 | 868939 | 204.0 | |
| 45 1,1-Dichloroethene | 96 | 5.429 | 5.429 | 0.0 | 90 | 611779 | 59.5 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 97 | 909560 | 63.5 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 100 | 694438 | 503.6 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 97 | 1649445 | 1166.5 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 86 | 713108 | 48.6 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 98 | 1772529 | 405.7 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 97 | 758401 | 58.4 | |
| 58 Isopropyl ether | 87 | 6.287 | 6.287 | 0.0 | 93 | 2839237 | 290.6 | |
| 59 1,1-Dichloroethane | 63 | 6.323 | 6.323 | 0.0 | 81 | 1124837 | 56.2 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 89 | 1069102 | 63.2 | |
| 62 2-Butanone (MEK) | 43 | 6.694 | 6.694 | 0.0 | 100 | 1190582 | 203.2 | |
| 64 Propionitrile | 54 | 6.745 | 6.745 | 0.0 | 99 | 922151 | 558.9 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 81 | 693625 | 57.0 | |
| 67 2,2-Dichloropropane | 77 | 6.795 | 6.795 | 0.0 | 86 | 865436 | 59.1 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 93 | 3831685 | 549.8 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 92 | 318845 | 56.5 | |
| 70 Chloroform | 83 | 6.959 | 6.959 | 0.0 | 80 | 1050963 | 55.4 | |
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 95 | 527198 | 1103.3 | |
| 73 1,1,1-Trichloroethane | 97 | 7.188 | 7.188 | 0.0 | 96 | 863923 | 57.2 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.295 | 0.0 | 94 | 868865 | 53.6 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 83 | 704129 | 54.7 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 97 | 812651 | 53.8 | |
| 79 Benzene | 78 | 7.474 | 7.474 | 0.0 | 96 | 2512027 | 56.0 | |
| 80 n-Butanol | 56 | 7.653 | 7.653 | 0.0 | 89 | 649714 | 1502.2 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 95 | 615975 | 56.0 | |
| 84 1,2-Dichloropropane | 63 | 8.117 | 8.110 | 0.007 | 95 | 633199 | 56.3 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 91 | 305437 | 2917.2 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 86 | 361118 | 55.9 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 95 | 755364 | 54.4 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.604 | 0.0 | 89 | 967114 | 55.1 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.654 | 0.0 | 97 | 2387476 | 205.0 | |
| 93 Toluene | 91 | 8.882 | 8.882 | 0.0 | 98 | 2678082 | 56.8 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.975 | 8.975 | 0.0 | 95 | 863559 | 51.7 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.133 | 0.0 | 91 | 513477 | 54.3 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 98 | 1719329 | 209.2 | |
| 98 1,3-Dichloropropane | 76 | 9.269 | 9.261 | 0.008 | 92 | 929536 | 55.5 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 92 | 473426 | 56.0 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.462 | 0.0 | 90 | 534490 | 56.9 | |
| 102 Ethylene Dibromide | 107 | 9.590 | 9.583 | 0.007 | 98 | 530687 | 56.6 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 98 | 852734 | 57.5 | |
| 104 Chlorobenzene | 112 | 9.934 | 9.934 | 0.0 | 93 | 1656227 | 55.9 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.962 | 0.007 | 92 | 553073 | 53.5 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 967180 | 57.3 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 99 | 2347302 | 114.4 | |
| 109 Styrene | 104 | 10.363 | 10.363 | 0.0 | 88 | 1920181 | 57.1 | |
| 108 o-Xylene | 106 | 10.363 | 10.363 | 0.0 | 85 | 1160883 | 56.9 | |
| 110 Bromoform | 173 | 10.563 | 10.556 | 0.007 | 95 | 314739 | 48.7 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 2974345 | 58.6 | |
| 113 Cyclohexanone | 55 | 10.742 | 10.742 | 0.0 | 94 | 1106901 | 2670.9 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 86 | 728004 | 57.0 | |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.892 | 0.0 | 80 | 202745 | 55.8 | |
| 118 N-Propylbenzene | 120 | 10.949 | 10.942 | 0.007 | 95 | 804398 | 56.7 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 89 | 676213 | 55.9 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 93 | 2432294 | 55.2 | |
| 120 2-Chlorotoluene | 126 | 11.070 | 11.063 | 0.007 | 95 | 683540 | 56.3 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 687139 | 57.6 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 88 | 2398758 | 58.5 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.378 | 0.007 | 97 | 2435728 | 58.3 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 651085 | 55.6 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.621 | 0.007 | 95 | 2624380 | 55.2 | |
| 126 1,3-Dichlorobenzene | 146 | 11.693 | 11.692 | 0.0 | 89 | 1291296 | 56.8 | |
| 127 1,4-Dichlorobenzene | 146 | 11.764 | 11.757 | 0.007 | 94 | 1318313 | 57.5 | |
| 129 n-Butylbenzene | 91 | 11.993 | 11.986 | 0.007 | 95 | 2577071 | 59.6 | |
| 130 1,2-Dichlorobenzene | 146 | 12.122 | 12.114 | 0.008 | 96 | 1227812 | 56.8 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.858 | 12.851 | 0.007 | 77 | 125667 | 55.0 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 94 | 841894 | 58.5 | |
| 133 Hexachlorobutadiene | 225 | 13.973 | 13.966 | 0.007 | 95 | 398475 | 57.9 | |
| 134 Naphthalene | 128 | 14.174 | 14.166 | 0.008 | 97 | 2283277 | 58.5 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.495 | 14.488 | 0.007 | 94 | 787139 | 58.0 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 215.4 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 106.8 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 115.4 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 171.3 | |

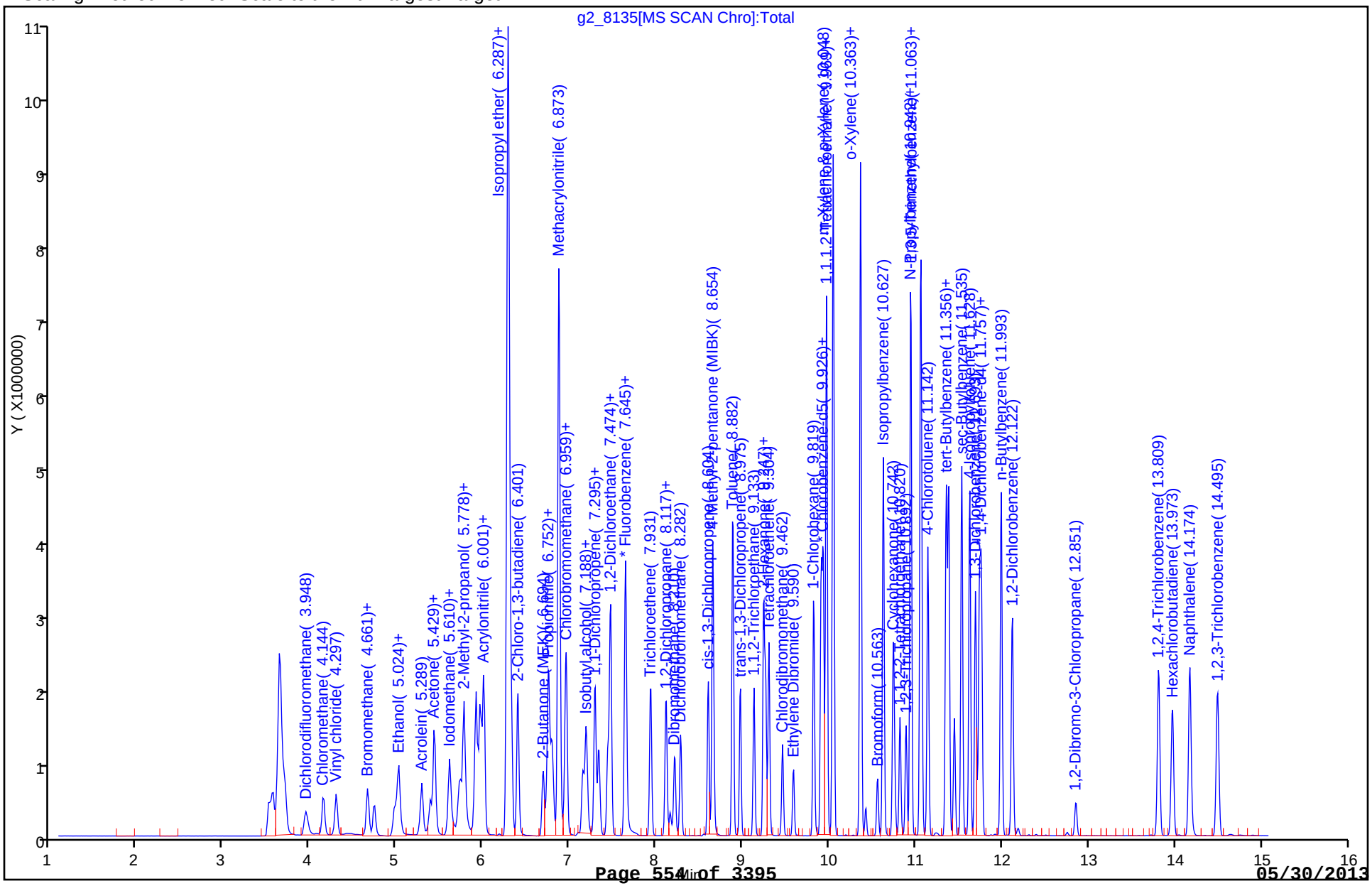
Report Date: 10-May-2013 16:36:36 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8135.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 01:01:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 20 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173584/21 Calibration Date: 05/10/2013 01:20

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 22:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 00:41

Lab File ID: g2_8136.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4451 | 0.4605 | | 51.7 | 50.0 | 3.5 | 50.0 |
| Ethyl ether | Ave | 0.2020 | 0.2040 | | 50.5 | 50.0 | 1.0 | 35.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.3424 | 0.3429 | | 50.1 | 50.0 | 0.1 | 50.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.1690 | 0.1751 | | 51.8 | 50.0 | 3.6 | 35.0 |
| Isopropyl alcohol | Ave | 0.0172 | 0.0163 | | 945 | 1000 | -5.5 | 50.0 |
| Allyl chloride | Ave | 0.3320 | 0.3479 | | 52.4 | 50.0 | 4.8 | 35.0 |
| Carbon disulfide | Ave | 0.7917 | 0.8694 | | 54.9 | 50.0 | 9.8 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.7010 | 0.7085 | | 50.5 | 50.0 | 1.1 | 20.0 |
| Hexane | Ave | 1.673 | 1.735 | | 51.8 | 50.0 | 3.7 | 35.0 |
| Tert-butyl ethyl ether | Ave | 0.6904 | 0.7238 | | 262 | 250 | 4.8 | 35.0 |
| Tetrahydrofuran | Ave | 0.0741 | 0.0737 | | 99.6 | 100 | -0.4 | 55.0 |
| Cyclohexane | Ave | 0.4200 | 0.4385 | | 52.2 | 50.0 | 4.4 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.6128 | 0.6473 | | 264 | 250 | 5.6 | 35.0 |
| 2-Pentanone | Ave | 0.2233 | 0.2669 | | 239 | 200 | 19.5 | 35.0 |
| Methyl methacrylate | Ave | 0.0590 | 0.0641 | | 109 | 100 | 8.6 | 35.0 |
| Methylcyclohexane | Ave | 0.3462 | 0.3645 | | 52.6 | 50.0 | 5.3 | 35.0 |
| 2-Chloroethyl vinyl ether | Lin1 | | 0.1455 | | 44.4 | 50.0 | -11.2 | 55.0 |
| 2-Nitropropane | Ave | 0.0511 | 0.0515 | | 50.5 | 50.0 | 0.9 | 55.0 |
| Ethyl methacrylate | Ave | 1.252 | 1.355 | | 108 | 100 | 8.3 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0987 | 0.1165 | | 59.0 | 50.0 | 18.1 | 55.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1340 | 0.1547 | | 57.7 | 50.0 | 15.4 | 55.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2076 | 0.2099 | | 50.5 | 50.0 | 1.1 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2646 | 0.2551 | | 48.2 | 50.0 | -3.6 | 20.0 |
| Toluene-d8 (Surr) | Ave | 3.778 | 3.929 | | 52.0 | 50.0 | 4.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.8749 | 0.8961 | | 51.2 | 50.0 | 2.4 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8136.D
Lims ID: ICV Client ID:
Inject. Date: 10-May-2013 01:20:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV S
Misc. Info.:
Operator: DUKESA Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 28
Lims Batch ID: 173584 Lims Sample ID: 21
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m
Last Update: 10-May-2013 16:20:07 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPHEATHER

First Level Reviewer: dukesa Date: 10-May-2013 02:01:55

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2230349 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.912 | -0.007 | 87 | 488568 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.743 | -0.008 | 96 | 730324 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.095 | 7.088 | 0.007 | 59 | 468171 | 50.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.381 | 0.0 | 98 | 568925 | 48.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 1919530 | 52.0 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 88 | 654427 | 51.2 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.116 | 4.102 | 0.014 | 97 | 458941 | 77.0 | |
| 30 Ethylene oxide | 43 | 4.646 | 4.633 | 0.013 | 100 | 4209134 | 5785.2 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 98 | 1027053 | 51.7 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.149 | 5.135 | 0.014 | 78 | 526299 | 49.9 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 93 | 455084 | 50.5 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.177 | 5.177 | 0.0 | 86 | 764760 | 50.1 | |
| 43 Isopropyl alcohol | 45 | 5.415 | 5.401 | 0.014 | 85 | 724934 | 945.5 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 95 | 390589 | 51.8 | |
| 49 3-Chloro-1-propene | 41 | 5.694 | 5.694 | 0.0 | 80 | 775967 | 52.4 | |
| 50 Carbon disulfide | 76 | 5.722 | 5.708 | 0.014 | 98 | 1939026 | 54.9 | |
| 54 Methyl tert-butyl ether | 73 | 5.973 | 5.973 | 0.0 | 90 | 1580109 | 50.5 | |
| 56 Hexane | 57 | 6.194 | 6.187 | 0.007 | 94 | 847460 | 51.8 | |
| 61 Tert-butyl ethyl ether | 59 | 6.573 | 6.566 | 0.007 | 97 | 8071391 | 262.1 | |
| 71 Tetrahydrofuran | 42 | 6.995 | 6.988 | 0.007 | 88 | 328907 | 99.6 | |
| 74 Cyclohexane | 56 | 7.274 | 7.274 | 0.0 | 91 | 977976 | 52.2 | |
| 78 Tert-amyl methyl ether | 73 | 7.467 | 7.467 | 0.0 | 98 | 7218606 | 264.1 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 2381047 | 239.0 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 92 | 285802 | 108.6 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 90 | 813047 | 52.6 | |
| 89 2-Nitropropane | 41 | 8.418 | 8.411 | 0.007 | 85 | 114911 | 50.5 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.418 | 8.425 | -0.007 | 91 | 324440 | 44.4 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 91 | 1324380 | 108.3 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 91 | 165446 | 59.0 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 89 | 85093 | 59.0 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 92 | 112945 | 57.7 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 98 | 1993747 | 53.6 | |

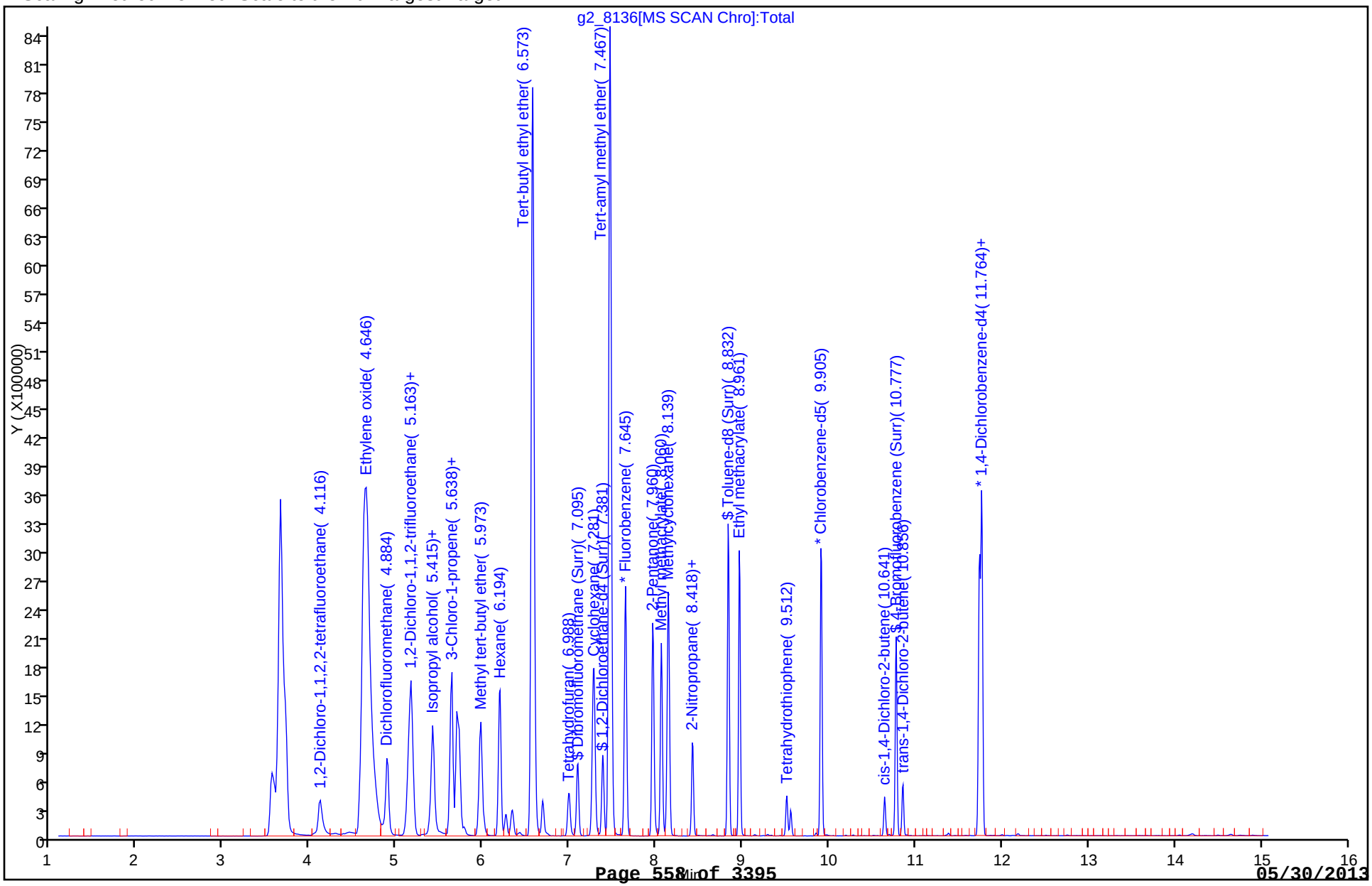
Report Date: 10-May-2013 16:20:10 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8136.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 01:20:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 21 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173584/28 Calibration Date: 05/10/2013 03:35

Instrument ID: VMS_G2 Calib Start Date: 05/10/2013 01:39

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 03:16

Lab File ID: g2_8143.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acetate | Ave | 0.2034 | 0.2009 | | 247 | 250 | -1.2 | 55.0 |
| Vinyl acetate | Ave | 0.4570 | 0.3556 | | 77.8 | 100 | -22.2 | 55.0 |
| Ethyl acetate | Ave | 0.2474 | 0.2448 | | 98.9 | 100 | -1.1 | 55.0 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8143.D | | |
| Lims ID: | ICV | Client ID: | |
| Inject. Date: | 10-May-2013 03:35:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICV | | |
| Sample ID: | ICV A | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 35 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 28 |
| Sublist: | | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:22:08 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 10-May-2013 16:22:08 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2032897 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 451314 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 97 | 689095 | 50.0 | |
| 48 Methyl acetate | 43 | 5.638 | 5.624 | 0.014 | 98 | 2042333 | 247.0 | |
| 57 Vinyl acetate | 43 | 6.265 | 6.258 | 0.007 | 97 | 1445808 | 77.8 | |
| 63 Ethyl acetate | 43 | 6.687 | 6.687 | 0.0 | 99 | 995086 | 98.9 | |

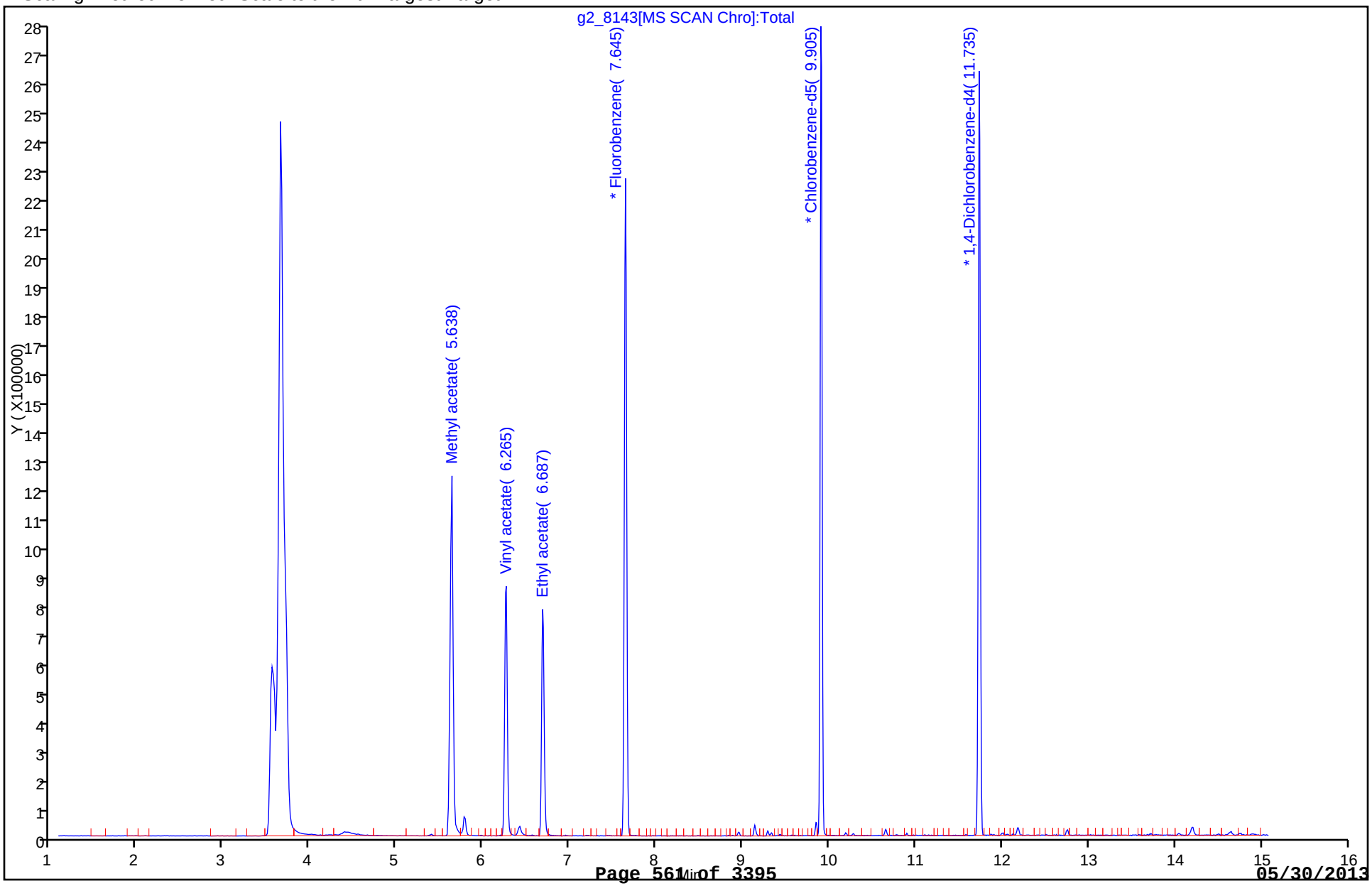
Report Date: 10-May-2013 16:22:08 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8143.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 03:35:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 28 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173622/16 Calibration Date: 05/10/2013 11:22

Instrument ID: VMS_G2 Calib Start Date: 05/10/2013 08:14

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 10:10

Lab File ID: g2_8157.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.3134 | 0.3237 | | 10.3 | 10.0 | 3.3 | 20.0 |
| Chloromethane | Ave | 0.3192 | 0.3382 | 0.1000 | 10.6 | 10.0 | 6.0 | 20.0 |
| Vinyl chloride | Ave | 0.3380 | 0.3636 | | 10.8 | 10.0 | 7.6 | 20.0 |
| Bromomethane | Ave | 0.2309 | 0.2321 | | 10.0 | 10.0 | 0.5 | 20.0 |
| Chloroethane | Ave | 0.2212 | 0.2393 | | 10.8 | 10.0 | 8.2 | 20.0 |
| Ethanol | Lin2 | | 0.0006 | | 467 | 500 | -6.6 | 50.0 |
| Trichlorofluoromethane | Ave | 0.4134 | 0.4310 | | 10.4 | 10.0 | 4.2 | 20.0 |
| Acrolein | Ave | 0.0095 | 0.0110 | | 115 | 100 | 14.8 | 55.0 |
| 1,1-Dichloroethene | Ave | 0.2511 | 0.2842 | | 11.3 | 10.0 | 13.2 | 20.0 |
| Acetonitrile | Ave | 0.0080 | 0.0081 | | 101 | 100 | 1.0 | 55.0 |
| Iodomethane | Ave | 0.3416 | 0.3749 | | 11.0 | 10.0 | 9.8 | 35.0 |
| 2-Methyl-2-propanol | Ave | 0.0058 | 0.0062 | | 212 | 200 | 6.2 | 50.0 |
| Methylene Chloride | Lin2 | | 0.2741 | | 10.4 | 10.0 | 4.4 | 20.0 |
| Acrylonitrile | Ave | 0.0288 | 0.0239 | | 82.9 | 100 | -17.1 | 55.0 |
| trans-1,2-Dichloroethene | Ave | 0.3404 | 0.3380 | | 9.93 | 10.0 | -0.7 | 20.0 |
| Isopropyl ether | Ave | 0.1822 | 0.1807 | | 49.6 | 50.0 | -0.8 | 35.0 |
| 1,1-Dichloroethane | Ave | 0.5024 | 0.4864 | 0.1000 | 9.68 | 10.0 | -3.2 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.4305 | 0.4823 | | 11.2 | 10.0 | 12.0 | 35.0 |
| 2-Butanone (MEK) | Ave | 0.0334 | 0.0348 | | 41.6 | 40.0 | 4.1 | 20.0 |
| Propionitrile | Ave | 0.0101 | 0.0101 | | 101 | 100 | 0.5 | 35.0 |
| cis-1,2-Dichloroethene | Ave | 0.2776 | 0.2669 | | 9.61 | 10.0 | -3.9 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.3858 | 0.4016 | | 10.4 | 10.0 | 4.1 | 20.0 |
| Methacrylonitrile | Ave | 0.0518 | 0.0486 | | 93.9 | 100 | -6.1 | 50.0 |
| Chlorobromomethane | Ave | 0.0904 | 0.0811 | | 8.97 | 10.0 | -10.3 | 20.0 |
| Chloroform | Ave | 0.4367 | 0.4059 | | 9.29 | 10.0 | -7.1 | 20.0 |
| Isobutyl alcohol | Ave | 0.0022 | 0.0024 | | 210 | 200 | 4.9 | 50.0 |
| 1,1,1-Trichloroethane | Ave | 0.4050 | 0.3958 | | 9.77 | 10.0 | -2.3 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4398 | 0.4051 | | 9.21 | 10.0 | -7.9 | 20.0 |
| Carbon tetrachloride | Ave | 0.3396 | 0.3367 | | 9.92 | 10.0 | -0.8 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.2223 | 0.2027 | | 9.12 | 10.0 | -8.8 | 20.0 |
| Benzene | Ave | 1.121 | 1.050 | | 9.36 | 10.0 | -6.4 | 20.0 |
| Trichloroethene | Ave | 0.2855 | 0.2632 | | 9.22 | 10.0 | -7.8 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.2369 | 0.2258 | | 9.53 | 10.0 | -4.7 | 20.0 |
| 1,4-Dioxane | Ave | 0.0007 | 0.0007 | | 511 | 500 | 2.2 | 55.0 |
| Dibromomethane | Ave | 0.0820 | 0.0755 | | 9.21 | 10.0 | -7.9 | 20.0 |
| Dichlorobromomethane | Ave | 0.2431 | 0.2348 | | 9.66 | 10.0 | -3.4 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 1.433 | 1.431 | | 9.99 | 10.0 | -0.0 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.0763 | 0.0784 | | 41.1 | 40.0 | 2.9 | 20.0 |
| Toluene | Ave | 1.162 | 1.120 | | 9.64 | 10.0 | -3.6 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.2119 | 0.2107 | | 9.94 | 10.0 | -0.6 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.1149 | 0.1049 | | 9.13 | 10.0 | -8.7 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173622/16 Calibration Date: 05/10/2013 11:22

Instrument ID: VMS_G2 Calib Start Date: 05/10/2013 08:14

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 10:10

Lab File ID: g2_8157.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | Ave | 0.2468 | 0.2605 | | 42.2 | 40.0 | 5.5 | 20.0 |
| 1,3-Dichloropropane | Ave | 1.108 | 1.018 | | 9.18 | 10.0 | -8.2 | 20.0 |
| Tetrachloroethene | Ave | 1.076 | 1.026 | | 9.53 | 10.0 | -4.7 | 20.0 |
| Chlorodibromomethane | Ave | 0.5878 | 0.5722 | | 9.74 | 10.0 | -2.6 | 20.0 |
| Ethylene Dibromide | Ave | 0.5112 | 0.4880 | | 9.55 | 10.0 | -4.5 | 20.0 |
| 1-Chlorohexane | Ave | 1.974 | 2.045 | | 10.4 | 10.0 | 3.6 | 35.0 |
| Chlorobenzene | Ave | 3.351 | 3.119 | 0.3000 | 9.31 | 10.0 | -6.9 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.9525 | 0.9009 | | 9.46 | 10.0 | -5.4 | 20.0 |
| Ethylbenzene | Ave | 2.068 | 1.952 | | 9.44 | 10.0 | -5.6 | 20.0 |
| m-Xylene & p-Xylene | Ave | 2.491 | 2.392 | | 19.2 | 20.0 | -4.0 | 20.0 |
| o-Xylene | Ave | 2.332 | 2.199 | | 9.43 | 10.0 | -5.7 | 20.0 |
| Styrene | Ave | 3.444 | 3.362 | | 9.76 | 10.0 | -2.4 | 20.0 |
| Bromoform | Ave | 0.2637 | 0.2618 | 0.1000 | 9.93 | 10.0 | -0.7 | 20.0 |
| Isopropylbenzene | Ave | 4.750 | 4.573 | | 9.63 | 10.0 | -3.7 | 20.0 |
| Cyclohexanone | Ave | 0.0122 | 0.0317 | | 648 | 250 | 159.2* | 55.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.4184 | 0.4036 | 0.3000 | 9.65 | 10.0 | -3.5 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.1074 | 0.1013 | | 9.43 | 10.0 | -5.7 | 20.0 |
| Bromobenzene | Ave | 0.8469 | 0.7742 | | 9.14 | 10.0 | -8.6 | 20.0 |
| N-Propylbenzene | Ave | 1.364 | 1.252 | | 9.18 | 10.0 | -8.2 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.819 | 3.636 | | 9.52 | 10.0 | -4.8 | 20.0 |
| 2-Chlorotoluene | Ave | 1.090 | 1.002 | | 9.19 | 10.0 | -8.1 | 20.0 |
| 4-Chlorotoluene | Ave | 1.037 | 1.002 | | 9.66 | 10.0 | -3.4 | 20.0 |
| tert-Butylbenzene | Ave | 3.798 | 3.619 | | 9.53 | 10.0 | -4.7 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 3.741 | 3.520 | | 9.41 | 10.0 | -5.9 | 20.0 |
| sec-Butylbenzene | Ave | 1.080 | 1.043 | | 9.66 | 10.0 | -3.4 | 20.0 |
| 4-Isopropyltoluene | Ave | 4.291 | 4.071 | | 9.49 | 10.0 | -5.1 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.776 | 1.666 | | 9.38 | 10.0 | -6.2 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.733 | 1.621 | | 9.35 | 10.0 | -6.5 | 20.0 |
| n-Butylbenzene | Ave | 4.425 | 4.310 | | 9.74 | 10.0 | -2.6 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.415 | 1.333 | | 9.42 | 10.0 | -5.8 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Lin2 | | 0.0485 | | 9.30 | 10.0 | -7.0 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9817 | 0.9284 | | 9.46 | 10.0 | -5.4 | 20.0 |
| Hexachlorobutadiene | Ave | 0.7213 | 0.6684 | | 9.27 | 10.0 | -7.3 | 20.0 |
| Naphthalene | Ave | 1.253 | 1.200 | | 9.58 | 10.0 | -4.2 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.7740 | 0.7329 | | 9.47 | 10.0 | -5.3 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8157.D
Lims ID: icv Client ID:
Inject. Date: 10-May-2013 11:22:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.:
Operator: ILCZYSZYND Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 20
Lims Batch ID: 173622 Lims Sample ID: 16
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m
Last Update: 11-May-2013 07:34:39 Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC277

First Level Reviewer: ilczyszynd Date: 10-May-2013 11:56:56

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 98 | 1849013 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 83 | 377576 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 95 | 521934 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.965 | 3.951 | 0.014 | 87 | 478848 | 10.3 | |
| 27 Chloromethane | 50 | 4.147 | 4.146 | 0.001 | 89 | 500315 | 10.6 | |
| 28 Vinyl chloride | 62 | 4.300 | 4.300 | 0.0 | 84 | 537786 | 10.8 | |
| 31 Bromomethane | 94 | 4.663 | 4.663 | 0.0 | 89 | 343319 | 10.0 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 353950 | 10.8 | |
| 34 Ethanol | 45 | 4.999 | 4.998 | 0.0 | 29 | 42465 | 467.2 | |
| 35 Trichlorofluoromethane | 101 | 5.026 | 5.012 | 0.014 | 87 | 637490 | 10.4 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 92 | 162056 | 114.8 | |
| 42 Acetone | 43 | | 5.389 | | | | | |
| 45 1,1-Dichloroethene | 96 | 5.445 | 5.431 | 0.014 | 89 | 420375 | 11.3 | |
| 46 Acetonitrile | 41 | 5.613 | 5.613 | 0.0 | 99 | 119364 | 101.2 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 97 | 554493 | 11.0 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.725 | 0.014 | 96 | 182552 | 212.4 | |
| 52 Methylene Chloride | 84 | 5.781 | 5.780 | 0.001 | 90 | 405514 | 10.4 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 98 | 352733 | 82.9 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.004 | 6.004 | 0.0 | 95 | 500018 | 9.93 | |
| 58 Isopropyl ether | 87 | 6.290 | 6.290 | 0.0 | 95 | 1336529 | 49.6 | |
| 59 1,1-Dichloroethane | 63 | 6.333 | 6.325 | 0.008 | 81 | 719411 | 9.68 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.397 | 0.007 | 88 | 713469 | 11.2 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.690 | 0.007 | 100 | 205758 | 41.6 | |
| 64 Propionitrile | 54 | 6.747 | 6.740 | 0.007 | 86 | 149486 | 100.5 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.762 | 6.754 | 0.008 | 67 | 394772 | 9.61 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.790 | 0.007 | 75 | 594045 | 10.4 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 93 | 718737 | 93.9 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 93 | 119945 | 8.97 | |
| 70 Chloroform | 83 | 6.962 | 6.962 | 0.0 | 80 | 600340 | 9.29 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 72 Isobutyl alcohol | 41 | 7.155 | 7.148 | 0.007 | 86 | 69852 | 209.9 | |
| 73 1,1,1-Trichloroethane | 97 | 7.198 | 7.191 | 0.007 | 91 | 585394 | 9.77 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.291 | 0.007 | 92 | 599197 | 9.21 | |
| 76 Carbon tetrachloride | 117 | 7.341 | 7.334 | 0.007 | 79 | 498075 | 9.92 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 91 | 299814 | 9.12 | |
| 79 Benzene | 78 | 7.477 | 7.469 | 0.008 | 96 | 1552555 | 9.36 | |
| 80 n-Butanol | 56 | 7.655 | 7.655 | 0.0 | 87 | 94980 | 308.5 | |
| 81 Trichloroethene | 95 | 7.941 | 7.934 | 0.007 | 95 | 389318 | 9.22 | |
| 84 1,2-Dichloropropane | 63 | 8.120 | 8.113 | 0.007 | 94 | 334037 | 9.53 | |
| 86 1,4-Dioxane | 88 | 8.170 | 8.170 | 0.0 | 92 | 49243 | 510.9 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 86 | 111666 | 9.21 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 93 | 347291 | 9.66 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 88 | 432337 | 10.0 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 97 | 464092 | 41.1 | |
| 93 Toluene | 91 | 8.892 | 8.885 | 0.007 | 98 | 1657445 | 9.64 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 91 | 311641 | 9.94 | |
| 96 1,1,2-Trichloroethane | 97 | 9.136 | 9.135 | 0.001 | 86 | 155194 | 9.13 | |
| 97 2-Hexanone | 43 | 9.250 | 9.243 | 0.007 | 97 | 314699 | 42.2 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 90 | 307387 | 9.18 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 91 | 309817 | 9.53 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 88 | 172848 | 9.74 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 99 | 147408 | 9.55 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.822 | 0.007 | 99 | 617818 | 10.4 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 93 | 942121 | 9.31 | |
| 106 Ethylbenzene | 106 | 9.972 | 9.972 | 0.0 | 98 | 589708 | 9.44 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 86 | 272122 | 9.46 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 1445181 | 19.2 | |
| 109 Styrene | 104 | 10.365 | 10.365 | 0.0 | 87 | 1015582 | 9.76 | |
| 108 o-Xylene | 106 | 10.365 | 10.365 | 0.0 | 88 | 664250 | 9.43 | |
| 110 Bromoform | 173 | 10.566 | 10.565 | 0.001 | 95 | 79070 | 9.93 | |
| 111 Isopropylbenzene | 105 | 10.630 | 10.630 | 0.0 | 96 | 1909552 | 9.63 | |
| 113 Cyclohexanone | 55 | 10.744 | 10.744 | 0.0 | 90 | 239232 | 648.0 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.823 | 0.0 | 68 | 168540 | 9.65 | |
| 116 1,2,3-Trichloropropane | 110 | 10.895 | 10.894 | 0.0 | 77 | 42297 | 9.43 | |
| 117 Bromobenzene | 156 | 10.952 | 10.944 | 0.008 | 96 | 323271 | 9.14 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 97 | 522764 | 9.18 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.059 | 11.059 | 0.0 | 92 | 1518075 | 9.52 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 95 | 418230 | 9.19 | |
| 121 4-Chlorotoluene | 126 | 11.145 | 11.145 | 0.0 | 98 | 418272 | 9.66 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 93 | 1511005 | 9.53 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 98 | 1469905 | 9.41 | |
| 124 sec-Butylbenzene | 134 | 11.538 | 11.538 | 0.0 | 95 | 435471 | 9.66 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 95 | 1699637 | 9.49 | |
| 126 1,3-Dichlorobenzene | 146 | 11.695 | 11.695 | 0.0 | 89 | 695824 | 9.38 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 93 | 676706 | 9.35 | |
| 129 n-Butylbenzene | 91 | 11.996 | 11.996 | 0.0 | 98 | 1799830 | 9.74 | |
| 130 1,2-Dichlorobenzene | 146 | 12.124 | 12.124 | 0.0 | 95 | 556537 | 9.42 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.854 | 0.007 | 53 | 20253 | 9.30 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.819 | 13.819 | 0.0 | 93 | 387663 | 9.46 | |
| 133 Hexachlorobutadiene | 225 | 13.976 | 13.976 | 0.0 | 96 | 279074 | 9.27 | |
| 134 Naphthalene | 128 | 14.176 | 14.176 | 0.0 | 97 | 500875 | 9.58 | |
| 135 1,2,3-Trichlorobenzene | 180 | 14.498 | 14.498 | 0.0 | 93 | 306006 | 9.47 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 19.9 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.5 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 28.6 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 38.6 | |

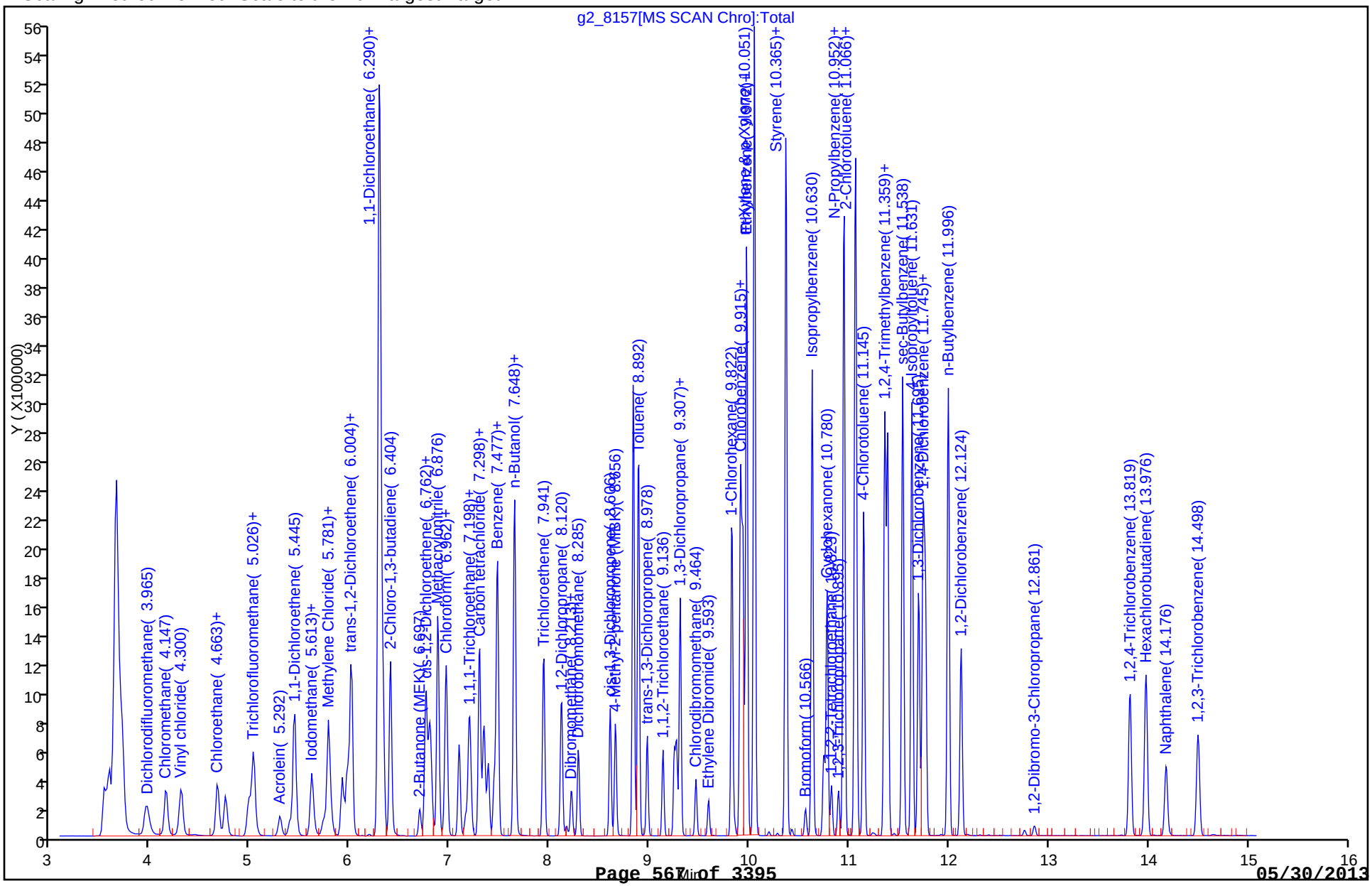
Report Date: 11-May-2013 07:35:23 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8157.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 11:22:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 16 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173622/17 Calibration Date: 05/10/2013 12:20

Instrument ID: VMS_G2 Calib Start Date: 05/10/2013 08:14

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 10:10

Lab File ID: g2_8160.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Acetone | Ave | 0.0234 | 0.0220 | | 37.5 | 40.0 | -6.2 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8160.D
Lims ID: icv Client ID:
Inject. Date: 10-May-2013 12:20:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv g 9-8
Misc. Info.:
Operator: ILCZYSZYND Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 23
Lims Batch ID: 173622 Lims Sample ID: 17
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m
Last Update: 11-May-2013 08:25:41 Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC277

First Level Reviewer: ilczyszynd Date: 10-May-2013 12:37:15

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1787899 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 358783 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 96 | 485403 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | | 3.951 | | | | | |
| 27 Chloromethane | 50 | | 4.146 | | | | | |
| 28 Vinyl chloride | 62 | | 4.300 | | | | | |
| 31 Bromomethane | 94 | | 4.663 | | | | | |
| 32 Chloroethane | 64 | | 4.747 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.012 | | | | | |
| 42 Acetone | 43 | 5.403 | 5.389 | 0.014 | 96 | 125686 | 37.5 | |
| 62 2-Butanone (MEK) | 43 | | 6.690 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.656 | | | | | |
| 97 2-Hexanone | 43 | | 9.243 | | | | | |
| 113 Cyclohexanone | 55 | | 10.744 | | | | | |

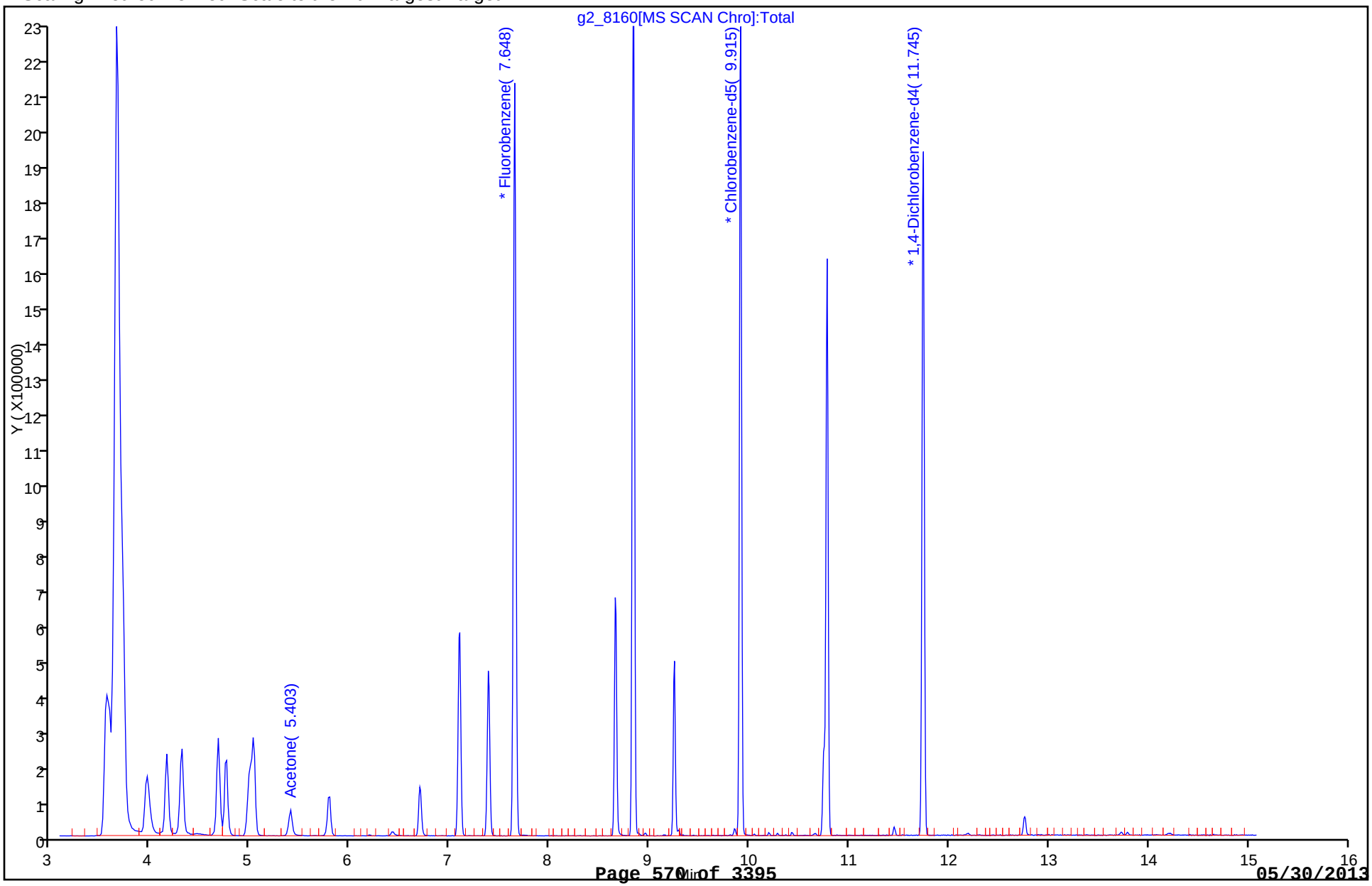
Report Date: 11-May-2013 08:25:41 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8160.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 12:20:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 17 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174465/4 Calibration Date: 05/15/2013 19:54

Instrument ID: VMS_G2 Calib Start Date: 02/28/2013 10:31

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 02/28/2013 12:04

Lab File ID: g2_8394.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acetate | Ave | 0.0564 | 0.0553 | | 49.0 | 50.0 | -2.0 | 50.0 |
| Vinyl acetate | Ave | 0.1727 | 0.1797 | | 20.8 | 20.0 | 4.1 | 50.0 |
| Ethyl acetate | Ave | 0.0794 | 0.0667 | | 16.8 | 20.0 | -16.0 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8394.D | | |
| Lims ID: | CCV | Client ID: | |
| Inject. Date: | 15-May-2013 19:54:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | CCV | | |
| Misc. Info.: | | | |
| Operator: | moanm | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 3 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 4 |
| Sublist: | chrom-AQ_VMSG2_8260*sub42 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m | | |
| Last Update: | 16-May-2013 17:07:56 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC371 | | |
| First Level Reviewer: moanm | | Date: | 15-May-2013 20:11:54 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1815137 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 371231 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.752 | 11.752 | 0.0 | 96 | 500348 | 12.5 | |
| 48 Methyl acetate | 43 | 5.627 | 5.627 | 0.0 | 98 | 401425 | 49.0 | |
| 57 Vinyl acetate | 43 | 6.261 | 6.261 | 0.0 | 97 | 521948 | 20.8 | |
| 63 Ethyl acetate | 43 | 6.690 | 6.690 | 0.0 | 98 | 193565 | 16.8 | |

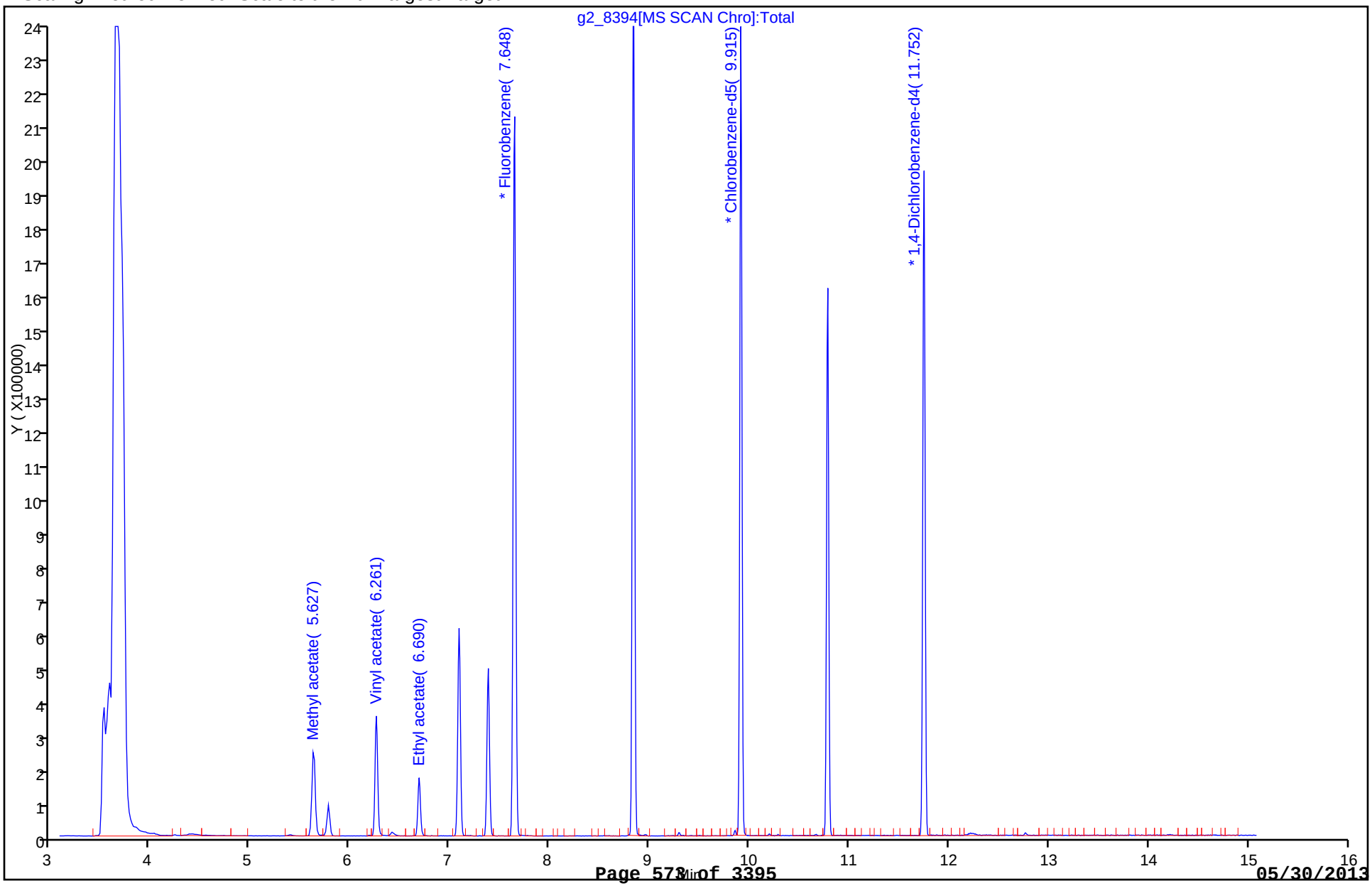
Report Date: 16-May-2013 17:07:57 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8394.D

| | | | |
|---|---|---|---|
| Injection Date: | 15-May-2013 19:54:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 4 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174465/2 Calibration Date: 05/15/2013 20:14

Instrument ID: VMS_G2 Calib Start Date: 04/30/2013 19:18

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 04/30/2013 20:53

Lab File ID: g2_8395.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.5234 | 0.5398 | | 10.3 | 10.0 | 3.1 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8395.D | | |
| Lims ID: | CCV | Client ID: | |
| Inject. Date: | 15-May-2013 20:14:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | CCV | | |
| Misc. Info.: | | | |
| Operator: | moanm | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 4 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 2 |
| Sublist: | chrom-AQ_VMSG2_8260*sub48 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m | | |
| Last Update: | 16-May-2013 17:07:53 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC371 | | |
| First Level Reviewer: moanm | | Date: | 15-May-2013 20:37:02 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1843185 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 80 | 377728 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 95 | 520518 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 87 | 462252 | 10.0 | |
| 27 Chloromethane | 50 | 4.160 | 4.160 | 0.0 | 89 | 441416 | 9.38 | |
| 28 Vinyl chloride | 62 | 4.300 | 4.300 | 0.0 | 84 | 458908 | 9.21 | |
| 31 Bromomethane | 94 | 4.677 | 4.677 | 0.0 | 89 | 329517 | 9.68 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 303457 | 9.30 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 79 | 795954 | 10.3 | |
| 34 Ethanol | 45 | 5.012 | 5.012 | 0.0 | 26 | 57873 | 625.9 | |
| 35 Trichlorofluoromethane | 101 | 5.026 | 5.026 | 0.0 | 84 | 593324 | 9.73 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 91 | 138507 | 98.5 | |
| 42 Acetone | 43 | 5.389 | 5.389 | 0.0 | 96 | 132551 | 38.4 | |
| 45 1,1-Dichloroethene | 96 | 5.445 | 5.445 | 0.0 | 90 | 359496 | 9.71 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 98 | 497732 | 9.88 | |
| 46 Acetonitrile | 41 | 5.627 | 5.627 | 0.0 | 99 | 123242 | 104.8 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.739 | 0.0 | 95 | 176752 | 206.3 | |
| 52 Methylene Chloride | 84 | 5.780 | 5.780 | 0.0 | 90 | 374728 | 9.54 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 99 | 406062 | 95.8 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.004 | 6.004 | 0.0 | 95 | 491977 | 9.80 | |
| 58 Isopropyl ether | 87 | 6.290 | 6.290 | 0.0 | 94 | 1296537 | 48.3 | |
| 59 1,1-Dichloroethane | 63 | 6.333 | 6.333 | 0.0 | 81 | 703826 | 9.50 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.404 | 0.0 | 88 | 613659 | 9.67 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.697 | 0.0 | 100 | 178606 | 36.3 | |
| 64 Propionitrile | 54 | 6.747 | 6.747 | 0.0 | 99 | 143963 | 97.1 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.762 | 6.762 | 0.0 | 69 | 400486 | 9.78 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.797 | 0.0 | 81 | 580495 | 10.2 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 93 | 718968 | 94.2 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 94 | 130065 | 9.76 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 70 Chloroform | 83 | 6.969 | 6.969 | 0.0 | 81 | 625113 | 9.71 | |
| 72 Isobutyl alcohol | 41 | 7.162 | 7.162 | 0.0 | 90 | 67028 | 202.0 | |
| 73 1,1,1-Trichloroethane | 97 | 7.198 | 7.198 | 0.0 | 92 | 604005 | 10.1 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.298 | 0.0 | 92 | 626941 | 9.67 | |
| 76 Carbon tetrachloride | 117 | 7.341 | 7.341 | 0.0 | 64 | 500148 | 9.99 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 90 | 321865 | 9.82 | |
| 79 Benzene | 78 | 7.477 | 7.477 | 0.0 | 95 | 1569253 | 9.49 | |
| 80 n-Butanol | 56 | 7.655 | 7.655 | 0.0 | 77 | 83395 | 267.8 | |
| 81 Trichloroethene | 95 | 7.941 | 7.941 | 0.0 | 95 | 402439 | 9.56 | |
| 84 1,2-Dichloropropane | 63 | 8.120 | 8.120 | 0.0 | 94 | 330018 | 9.45 | |
| 86 1,4-Dioxane | 88 | 8.170 | 8.170 | 0.0 | 84 | 51725 | 538.4 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 86 | 119359 | 9.87 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 93 | 355212 | 9.91 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 88 | 419476 | 9.69 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 97 | 425933 | 37.9 | |
| 93 Toluene | 91 | 8.892 | 8.892 | 0.0 | 98 | 1670362 | 9.75 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 91 | 306659 | 9.82 | |
| 96 1,1,2-Trichloroethane | 97 | 9.135 | 9.135 | 0.0 | 86 | 165686 | 9.78 | |
| 97 2-Hexanone | 43 | 9.250 | 9.250 | 0.0 | 97 | 270317 | 36.2 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 91 | 317198 | 9.47 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 90 | 328336 | 10.1 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 88 | 177072 | 9.97 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 97 | 151413 | 9.80 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.829 | 0.0 | 98 | 567686 | 9.52 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 93 | 967353 | 9.55 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 70 | 292241 | 10.2 | |
| 106 Ethylbenzene | 106 | 9.979 | 9.979 | 0.0 | 98 | 607543 | 9.72 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 1474385 | 19.6 | |
| 109 Styrene | 104 | 10.372 | 10.372 | 0.0 | 87 | 1028044 | 9.88 | |
| 108 o-Xylene | 106 | 10.372 | 10.372 | 0.0 | 89 | 685548 | 9.73 | |
| 110 Bromoform | 173 | 10.565 | 10.565 | 0.0 | 95 | 78656 | 9.87 | |
| 111 Isopropylbenzene | 105 | 10.637 | 10.637 | 0.0 | 96 | 1944070 | 9.83 | |
| 113 Cyclohexanone | 55 | 10.751 | 10.751 | 0.0 | 90 | 137815 | 373.2 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.830 | 10.830 | 0.0 | 68 | 168831 | 9.69 | |
| 116 1,2,3-Trichloropropane | 110 | 10.902 | 10.902 | 0.0 | 83 | 44007 | 9.84 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 96 | 542999 | 9.56 | |
| 117 Bromobenzene | 156 | 10.952 | 10.952 | 0.0 | 98 | 346445 | 9.82 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.066 | 11.066 | 0.0 | 92 | 1552806 | 9.76 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 94 | 436233 | 9.61 | |
| 121 4-Chlorotoluene | 126 | 11.152 | 11.152 | 0.0 | 98 | 426444 | 9.87 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 93 | 1541028 | 9.74 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 98 | 1521502 | 9.77 | |
| 124 sec-Butylbenzene | 134 | 11.545 | 11.545 | 0.0 | 94 | 442782 | 9.85 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 97 | 1743387 | 9.76 | |
| 126 1,3-Dichlorobenzene | 146 | 11.702 | 11.702 | 0.0 | 97 | 729490 | 9.86 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 93 | 697701 | 9.67 | |
| 129 n-Butylbenzene | 91 | 12.003 | 12.003 | 0.0 | 97 | 1791085 | 9.72 | |
| 130 1,2-Dichlorobenzene | 146 | 12.131 | 12.131 | 0.0 | 96 | 584140 | 9.92 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.861 | 0.0 | 58 | 20269 | 9.33 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.826 | 13.826 | 0.0 | 93 | 413197 | 10.1 | |
| 133 Hexachlorobutadiene | 225 | 13.983 | 13.983 | 0.0 | 96 | 294214 | 9.80 | |
| 134 Naphthalene | 128 | 14.183 | 14.183 | 0.0 | 97 | 506543 | 9.71 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 14.505 | 14.505 | 0.0 | 94 | 314879 | 9.77 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 19.5 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.6 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 29.3 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 39.5 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 29.3 | |
| S 138 Total BTEX | 1 | | | | 0 | | 58.3 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 19.6 | |

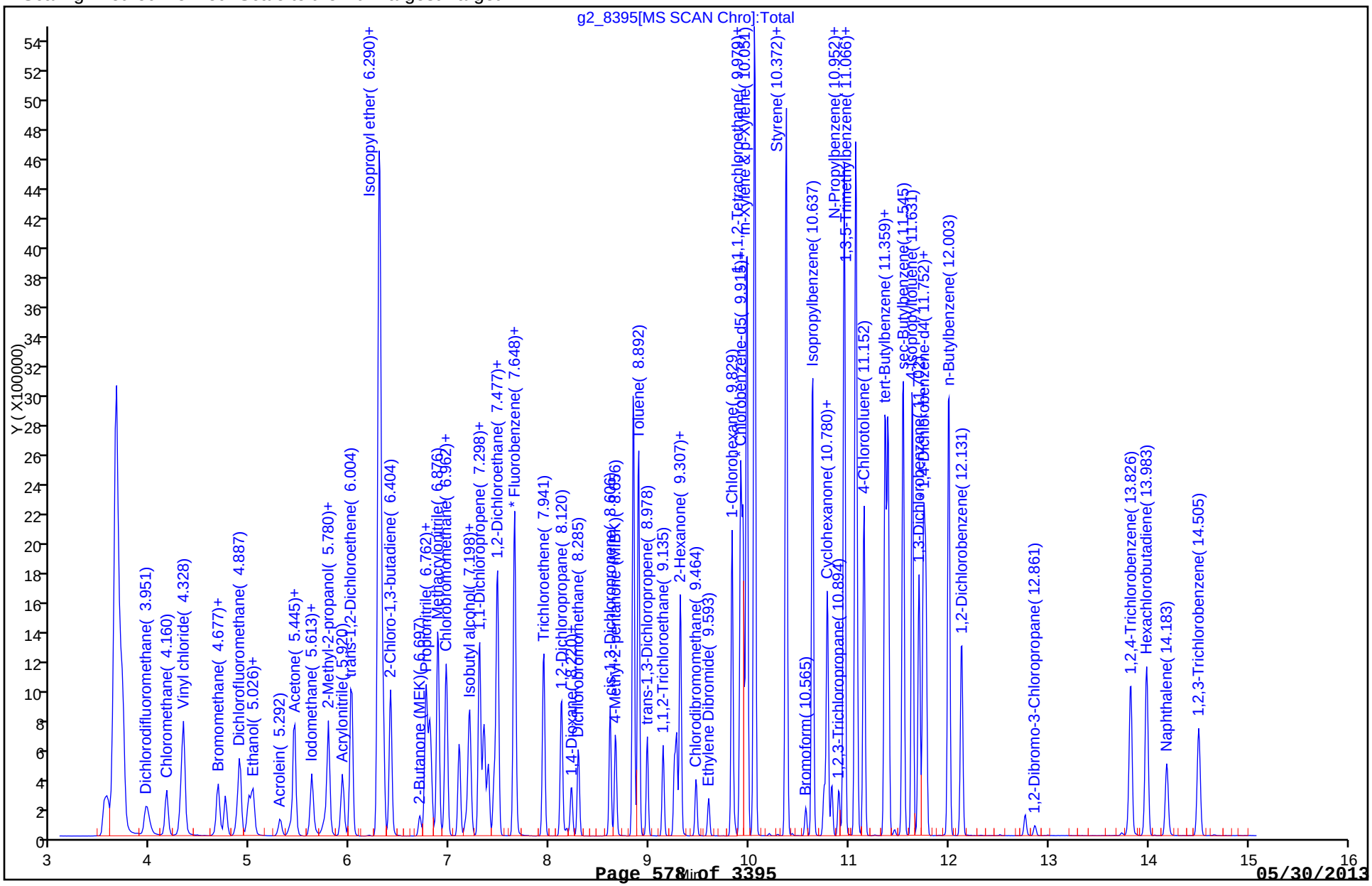
Report Date: 16-May-2013 17:07:54 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8395.D

| | | | |
|---|---|---|---|
| Injection Date: | 15-May-2013 20:14:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 2 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174465/2 Calibration Date: 05/15/2013 20:14

Instrument ID: VMS_G2 Calib Start Date: 05/10/2013 08:14

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 10:10

Lab File ID: g2_8395.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.3134 | 0.3135 | | 10.0 | 10.0 | 0.0 | 20.0 |
| Chloromethane | Ave | 0.3192 | 0.2994 | 0.1000 | 9.38 | 10.0 | -6.2 | 20.0 |
| Vinyl chloride | Ave | 0.3380 | 0.3112 | | 9.21 | 10.0 | -7.9 | 20.0 |
| Bromomethane | Ave | 0.2309 | 0.2235 | | 9.68 | 10.0 | -3.2 | 20.0 |
| Chloroethane | Ave | 0.2212 | 0.2058 | | 9.30 | 10.0 | -7.0 | 20.0 |
| Ethanol | Lin2 | | 0.0008 | | 626 | 500 | 25.2 | 50.0 |
| Trichlorofluoromethane | Ave | 0.4134 | 0.4024 | | 9.73 | 10.0 | -2.7 | 20.0 |
| Acrolein | Ave | 0.0095 | 0.0094 | | 98.5 | 100 | -1.5 | 50.0 |
| Acetone | Ave | 0.0234 | 0.0225 | | 38.4 | 40.0 | -4.1 | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2511 | 0.2438 | | 9.71 | 10.0 | -2.9 | 20.0 |
| Iodomethane | Ave | 0.3416 | 0.3376 | | 9.88 | 10.0 | -1.2 | 35.0 |
| Acetonitrile | Ave | 0.0080 | 0.0084 | | 105 | 100 | 4.8 | 50.0 |
| 2-Methyl-2-propanol | Ave | 0.0058 | 0.0060 | | 206 | 200 | 3.2 | 50.0 |
| Methylene Chloride | Lin2 | | 0.2541 | | 9.54 | 10.0 | -4.6 | 20.0 |
| Acrylonitrile | Ave | 0.0288 | 0.0275 | | 95.8 | 100 | -4.2 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.3404 | 0.3337 | | 9.80 | 10.0 | -2.0 | 20.0 |
| Isopropyl ether | Ave | 0.1822 | 0.1759 | | 48.3 | 50.0 | -3.5 | 35.0 |
| 1,1-Dichloroethane | Ave | 0.5024 | 0.4773 | 0.1000 | 9.50 | 10.0 | -5.0 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.4305 | 0.4162 | | 9.67 | 10.0 | -3.3 | 35.0 |
| 2-Butanone (MEK) | Ave | 0.0334 | 0.0303 | | 36.3 | 40.0 | -9.3 | 20.0 |
| Propionitrile | Ave | 0.0101 | 0.0098 | | 97.1 | 100 | -2.9 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2776 | 0.2716 | | 9.78 | 10.0 | -2.2 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.3858 | 0.3937 | | 10.2 | 10.0 | 2.1 | 20.0 |
| Methacrylonitrile | Ave | 0.0518 | 0.0488 | | 94.2 | 100 | -5.8 | 50.0 |
| Chlorobromomethane | Ave | 0.0904 | 0.0882 | | 9.76 | 10.0 | -2.4 | 20.0 |
| Chloroform | Ave | 0.4367 | 0.4239 | | 9.71 | 10.0 | -2.9 | 20.0 |
| Isobutyl alcohol | Ave | 0.0022 | 0.0023 | | 202 | 200 | 1.0 | 50.0 |
| 1,1,1-Trichloroethane | Ave | 0.4050 | 0.4096 | | 10.1 | 10.0 | 1.1 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4398 | 0.4252 | | 9.67 | 10.0 | -3.3 | 20.0 |
| Carbon tetrachloride | Ave | 0.3396 | 0.3392 | | 9.99 | 10.0 | -0.1 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.2223 | 0.2183 | | 9.82 | 10.0 | -1.8 | 20.0 |
| Benzene | Ave | 1.121 | 1.064 | | 9.49 | 10.0 | -5.1 | 20.0 |
| Trichloroethene | Ave | 0.2855 | 0.2729 | | 9.56 | 10.0 | -4.4 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.2369 | 0.2238 | | 9.45 | 10.0 | -5.5 | 20.0 |
| 1,4-Dioxane | Ave | 0.0007 | 0.0007 | | 538 | 500 | 7.7 | 50.0 |
| Dibromomethane | Ave | 0.0820 | 0.0810 | | 9.87 | 10.0 | -1.3 | 20.0 |
| Dichlorobromomethane | Ave | 0.2431 | 0.2409 | | 9.91 | 10.0 | -0.9 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 1.433 | 1.388 | | 9.69 | 10.0 | -3.1 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.0763 | 0.0722 | | 37.9 | 40.0 | -5.3 | 20.0 |
| Toluene | Ave | 1.162 | 1.133 | | 9.75 | 10.0 | -2.5 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.2119 | 0.2080 | | 9.82 | 10.0 | -1.8 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174465/2 Calibration Date: 05/15/2013 20:14

Instrument ID: VMS_G2 Calib Start Date: 05/10/2013 08:14

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 10:10

Lab File ID: g2_8395.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | Ave | 0.1149 | 0.1124 | | 9.78 | 10.0 | -2.2 | 20.0 |
| 2-Hexanone | Ave | 0.2468 | 0.2236 | | 36.2 | 40.0 | -9.4 | 20.0 |
| 1,3-Dichloropropane | Ave | 1.108 | 1.050 | | 9.47 | 10.0 | -5.3 | 20.0 |
| Tetrachloroethene | Ave | 1.076 | 1.087 | | 10.1 | 10.0 | 0.9 | 20.0 |
| Chlorodibromomethane | Ave | 0.5878 | 0.5860 | | 9.97 | 10.0 | -0.3 | 20.0 |
| Ethylene Dibromide | Ave | 0.5112 | 0.5011 | | 9.80 | 10.0 | -2.0 | 20.0 |
| 1-Chlorohexane | Ave | 1.974 | 1.910 | | 9.52 | 9.83 | -3.2 | 35.0 |
| Chlorobenzene | Ave | 3.351 | 3.201 | 0.3000 | 9.55 | 10.0 | -4.5 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.9525 | 0.9671 | | 10.2 | 10.0 | 1.5 | 20.0 |
| Ethylbenzene | Ave | 2.068 | 2.011 | | 9.72 | 10.0 | -2.8 | 20.0 |
| m-Xylene & p-Xylene | Ave | 2.491 | 2.440 | | 19.6 | 20.0 | -2.1 | 20.0 |
| o-Xylene | Ave | 2.332 | 2.269 | | 9.73 | 10.0 | -2.7 | 20.0 |
| Styrene | Ave | 3.444 | 3.402 | | 9.88 | 10.0 | -1.2 | 20.0 |
| Bromoform | Ave | 0.2637 | 0.2603 | 0.1000 | 9.87 | 10.0 | -1.3 | 20.0 |
| Isopropylbenzene | Ave | 4.750 | 4.669 | | 9.83 | 10.0 | -1.7 | 20.0 |
| Cyclohexanone | Ave | 0.0122 | 0.0114 | | 373 | 400 | -6.7 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.4184 | 0.4054 | 0.3000 | 9.69 | 10.0 | -3.1 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.1074 | 0.1057 | | 9.84 | 10.0 | -1.6 | 20.0 |
| Bromobenzene | Ave | 0.8469 | 0.8320 | | 9.82 | 10.0 | -1.8 | 20.0 |
| N-Propylbenzene | Ave | 1.364 | 1.304 | | 9.56 | 10.0 | -4.4 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.819 | 3.729 | | 9.76 | 10.0 | -2.4 | 20.0 |
| 2-Chlorotoluene | Ave | 1.090 | 1.048 | | 9.61 | 10.0 | -3.9 | 20.0 |
| 4-Chlorotoluene | Ave | 1.037 | 1.024 | | 9.87 | 10.0 | -1.3 | 20.0 |
| tert-Butylbenzene | Ave | 3.798 | 3.701 | | 9.74 | 10.0 | -2.6 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 3.741 | 3.654 | | 9.77 | 10.0 | -2.3 | 20.0 |
| sec-Butylbenzene | Ave | 1.080 | 1.063 | | 9.85 | 10.0 | -1.5 | 20.0 |
| 4-Isopropyltoluene | Ave | 4.291 | 4.187 | | 9.76 | 10.0 | -2.4 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.776 | 1.752 | | 9.86 | 10.0 | -1.4 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.733 | 1.676 | | 9.67 | 10.0 | -3.3 | 20.0 |
| n-Butylbenzene | Ave | 4.425 | 4.301 | | 9.72 | 10.0 | -2.8 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.415 | 1.403 | | 9.92 | 10.0 | -0.8 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Lin2 | | 0.0487 | | 9.33 | 10.0 | -6.7 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9817 | 0.9923 | | 10.1 | 10.0 | 1.1 | 20.0 |
| Hexachlorobutadiene | Ave | 0.7213 | 0.7065 | | 9.80 | 10.0 | -2.0 | 20.0 |
| Naphthalene | Ave | 1.253 | 1.216 | | 9.71 | 10.0 | -2.9 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.7740 | 0.7562 | | 9.77 | 10.0 | -2.3 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8395.D
Lims ID: CCV Client ID:
Inject. Date: 15-May-2013 20:14:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: moanm Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 4
Lims Batch ID: 174465 Lims Sample ID: 2
Sublist: chrom-AQ_VMSG2_8260*sub48
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m
Last Update: 16-May-2013 17:07:53 Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC371

First Level Reviewer: moanm Date: 15-May-2013 20:37:02

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1843185 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 80 | 377728 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 95 | 520518 | 12.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 87 | 462252 | 10.0 | |
| 27 Chloromethane | 50 | 4.160 | 4.160 | 0.0 | 89 | 441416 | 9.38 | |
| 28 Vinyl chloride | 62 | 4.300 | 4.300 | 0.0 | 84 | 458908 | 9.21 | |
| 31 Bromomethane | 94 | 4.677 | 4.677 | 0.0 | 89 | 329517 | 9.68 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 303457 | 9.30 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 79 | 795954 | 10.3 | |
| 34 Ethanol | 45 | 5.012 | 5.012 | 0.0 | 26 | 57873 | 625.9 | |
| 35 Trichlorofluoromethane | 101 | 5.026 | 5.026 | 0.0 | 84 | 593324 | 9.73 | |
| 41 Acrolein | 56 | 5.292 | 5.292 | 0.0 | 91 | 138507 | 98.5 | |
| 42 Acetone | 43 | 5.389 | 5.389 | 0.0 | 96 | 132551 | 38.4 | |
| 45 1,1-Dichloroethene | 96 | 5.445 | 5.445 | 0.0 | 90 | 359496 | 9.71 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 98 | 497732 | 9.88 | |
| 46 Acetonitrile | 41 | 5.627 | 5.627 | 0.0 | 99 | 123242 | 104.8 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.739 | 0.0 | 95 | 176752 | 206.3 | |
| 52 Methylene Chloride | 84 | 5.780 | 5.780 | 0.0 | 90 | 374728 | 9.54 | |
| 53 Acrylonitrile | 53 | 5.920 | 5.920 | 0.0 | 99 | 406062 | 95.8 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.004 | 6.004 | 0.0 | 95 | 491977 | 9.80 | |
| 58 Isopropyl ether | 87 | 6.290 | 6.290 | 0.0 | 94 | 1296537 | 48.3 | |
| 59 1,1-Dichloroethane | 63 | 6.333 | 6.333 | 0.0 | 81 | 703826 | 9.50 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.404 | 6.404 | 0.0 | 88 | 613659 | 9.67 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.697 | 0.0 | 100 | 178606 | 36.3 | |
| 64 Propionitrile | 54 | 6.747 | 6.747 | 0.0 | 99 | 143963 | 97.1 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.762 | 6.762 | 0.0 | 69 | 400486 | 9.78 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.797 | 0.0 | 81 | 580495 | 10.2 | |
| 68 Methacrylonitrile | 41 | 6.876 | 6.876 | 0.0 | 93 | 718968 | 94.2 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 94 | 130065 | 9.76 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 70 Chloroform | 83 | 6.969 | 6.969 | 0.0 | 81 | 625113 | 9.71 | |
| 72 Isobutyl alcohol | 41 | 7.162 | 7.162 | 0.0 | 90 | 67028 | 202.0 | |
| 73 1,1,1-Trichloroethane | 97 | 7.198 | 7.198 | 0.0 | 92 | 604005 | 10.1 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.298 | 0.0 | 92 | 626941 | 9.67 | |
| 76 Carbon tetrachloride | 117 | 7.341 | 7.341 | 0.0 | 64 | 500148 | 9.99 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 90 | 321865 | 9.82 | |
| 79 Benzene | 78 | 7.477 | 7.477 | 0.0 | 95 | 1569253 | 9.49 | |
| 80 n-Butanol | 56 | 7.655 | 7.655 | 0.0 | 77 | 83395 | 267.8 | |
| 81 Trichloroethene | 95 | 7.941 | 7.941 | 0.0 | 95 | 402439 | 9.56 | |
| 84 1,2-Dichloropropane | 63 | 8.120 | 8.120 | 0.0 | 94 | 330018 | 9.45 | |
| 86 1,4-Dioxane | 88 | 8.170 | 8.170 | 0.0 | 84 | 51725 | 538.4 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 86 | 119359 | 9.87 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 93 | 355212 | 9.91 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 88 | 419476 | 9.69 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 97 | 425933 | 37.9 | |
| 93 Toluene | 91 | 8.892 | 8.892 | 0.0 | 98 | 1670362 | 9.75 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 91 | 306659 | 9.82 | |
| 96 1,1,2-Trichloroethane | 97 | 9.135 | 9.135 | 0.0 | 86 | 165686 | 9.78 | |
| 97 2-Hexanone | 43 | 9.250 | 9.250 | 0.0 | 97 | 270317 | 36.2 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 91 | 317198 | 9.47 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 90 | 328336 | 10.1 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 88 | 177072 | 9.97 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 97 | 151413 | 9.80 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.829 | 0.0 | 98 | 567686 | 9.52 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 93 | 967353 | 9.55 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 70 | 292241 | 10.2 | |
| 106 Ethylbenzene | 106 | 9.979 | 9.979 | 0.0 | 98 | 607543 | 9.72 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 1474385 | 19.6 | |
| 109 Styrene | 104 | 10.372 | 10.372 | 0.0 | 87 | 1028044 | 9.88 | |
| 108 o-Xylene | 106 | 10.372 | 10.372 | 0.0 | 89 | 685548 | 9.73 | |
| 110 Bromoform | 173 | 10.565 | 10.565 | 0.0 | 95 | 78656 | 9.87 | |
| 111 Isopropylbenzene | 105 | 10.637 | 10.637 | 0.0 | 96 | 1944070 | 9.83 | |
| 113 Cyclohexanone | 55 | 10.751 | 10.751 | 0.0 | 90 | 137815 | 373.2 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.830 | 10.830 | 0.0 | 68 | 168831 | 9.69 | |
| 116 1,2,3-Trichloropropane | 110 | 10.902 | 10.902 | 0.0 | 83 | 44007 | 9.84 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 96 | 542999 | 9.56 | |
| 117 Bromobenzene | 156 | 10.952 | 10.952 | 0.0 | 98 | 346445 | 9.82 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.066 | 11.066 | 0.0 | 92 | 1552806 | 9.76 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 94 | 436233 | 9.61 | |
| 121 4-Chlorotoluene | 126 | 11.152 | 11.152 | 0.0 | 98 | 426444 | 9.87 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 93 | 1541028 | 9.74 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 98 | 1521502 | 9.77 | |
| 124 sec-Butylbenzene | 134 | 11.545 | 11.545 | 0.0 | 94 | 442782 | 9.85 | |
| 125 4-Isopropyltoluene | 119 | 11.631 | 11.631 | 0.0 | 97 | 1743387 | 9.76 | |
| 126 1,3-Dichlorobenzene | 146 | 11.702 | 11.702 | 0.0 | 97 | 729490 | 9.86 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 93 | 697701 | 9.67 | |
| 129 n-Butylbenzene | 91 | 12.003 | 12.003 | 0.0 | 97 | 1791085 | 9.72 | |
| 130 1,2-Dichlorobenzene | 146 | 12.131 | 12.131 | 0.0 | 96 | 584140 | 9.92 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.861 | 0.0 | 58 | 20269 | 9.33 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.826 | 13.826 | 0.0 | 93 | 413197 | 10.1 | |
| 133 Hexachlorobutadiene | 225 | 13.983 | 13.983 | 0.0 | 96 | 294214 | 9.80 | |
| 134 Naphthalene | 128 | 14.183 | 14.183 | 0.0 | 97 | 506543 | 9.71 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 14.505 | 14.505 | 0.0 | 94 | 314879 | 9.77 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 19.5 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.6 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 29.3 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 39.5 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 29.3 | |
| S 138 Total BTEX | 1 | | | | 0 | | 58.3 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 19.6 | |

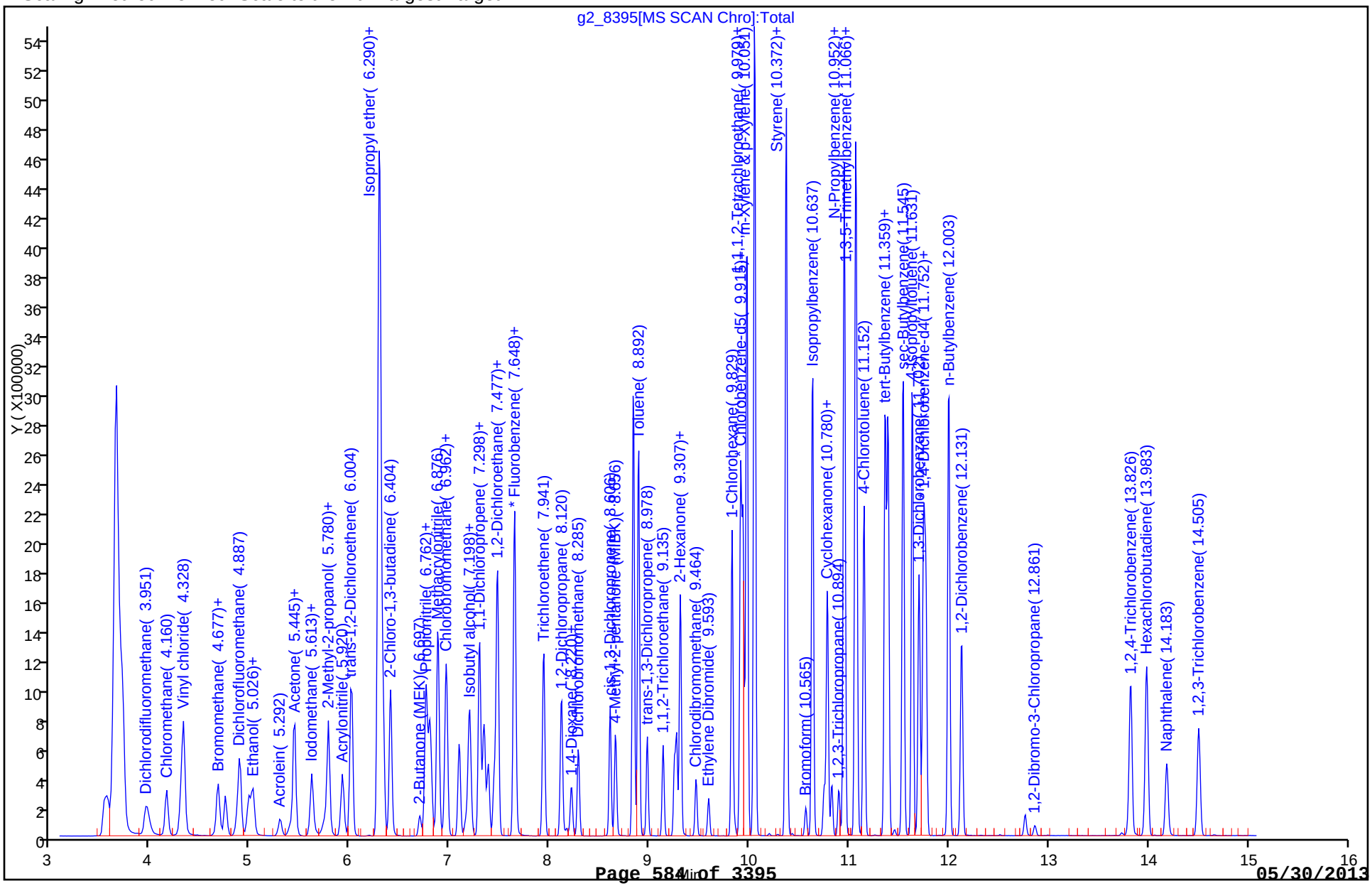
Report Date: 16-May-2013 17:07:54 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8395.D

| | | | |
|---|---|---|---|
| Injection Date: | 15-May-2013 20:14:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 2 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174465/3 Calibration Date: 05/15/2013 20:33

Instrument ID: VMS_G2 Calib Start Date: 04/30/2013 19:18

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 04/30/2013 20:53

Lab File ID: g2_8396.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.5234 | 0.5341 | | 10.2 | 10.0 | 2.0 | 50.0 |
| Ethyl ether | Ave | 0.1208 | 0.1181 | | 9.78 | 10.0 | -2.2 | 35.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.4099 | 0.3992 | | 9.74 | 10.0 | -2.6 | 50.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.1998 | 0.2144 | | 10.7 | 10.0 | 7.3 | 50.0 |
| Isopropyl alcohol | Ave | 0.0041 | 0.0038 | | 186 | 200 | -7.0 | 50.0 |
| Allyl chloride | Ave | 0.3372 | 0.3543 | | 10.5 | 10.0 | 5.1 | 35.0 |
| Carbon disulfide | Ave | 1.100 | 1.031 | | 9.37 | 10.0 | -6.3 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.3706 | 0.3633 | | 9.81 | 10.0 | -1.9 | 20.0 |
| Hexane | Ave | 2.451 | 2.151 | | 8.77 | 10.0 | -12.3 | 20.0 |
| Tert-butyl ethyl ether | Ave | 0.5059 | 0.5180 | | 51.2 | 50.0 | 2.4 | 35.0 |
| 2-Butanol | Lin2 | | 0.0044 | | 325 | 364 | -10.8 | 50.0 |
| Tetrahydrofuran | Ave | 0.0194 | 0.0186 | | 19.2 | 20.0 | -3.8 | 50.0 |
| Cyclohexane | Ave | 0.5513 | 0.5161 | | 9.36 | 10.0 | -6.4 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.3843 | 0.3844 | | 50.0 | 50.0 | 0.0 | 35.0 |
| 2-Pentanone | Ave | 0.0612 | 0.0510 | | 33.4 | 40.0 | -16.6 | 50.0 |
| Methyl methacrylate | Lin2 | | 0.0215 | | 18.3 | 20.0 | -8.4 | 35.0 |
| Methylcyclohexane | Ave | 0.4378 | 0.4216 | | 9.63 | 10.0 | -3.7 | 35.0 |
| 2-Nitropropane | Ave | 0.0145 | 0.0152 | | 10.5 | 10.0 | 4.9 | 50.0 |
| 2-Chloroethyl vinyl ether | Lin2 | | 0.0614 | | 9.58 | 10.0 | -4.2 | 50.0 |
| Ethyl methacrylate | Lin2 | | 0.6088 | | 16.8 | 20.0 | -16.2 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0482 | 0.0427 | | 8.85 | 10.0 | -11.5 | 50.0 |
| trans-1,4-Dichloro-2-butene | Lin2 | | 0.0615 | | 9.32 | 10.0 | -6.8 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.1781 | 0.1991 | | 14.0 | 12.5 | 11.8 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.1521 | 0.1728 | | 14.2 | 12.5 | 13.6 | 20.0 |
| Toluene-d8 (Surr) | Ave | 4.453 | 4.609 | | 12.9 | 12.5 | 3.5 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 1.053 | 1.042 | | 12.4 | 12.5 | -1.0 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8396.D
Lims ID: CCV Client ID:
Inject. Date: 15-May-2013 20:33:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: moanm Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 5
Lims Batch ID: 174465 Lims Sample ID: 3
Sublist: chrom-AQ_VMSG2_8260*sub18
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m
Last Update: 16-May-2013 17:07:55 Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC371

First Level Reviewer: moanm Date: 15-May-2013 20:51:32

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1892603 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 386326 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.745 | 0.0 | 97 | 509547 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.091 | 7.091 | 0.0 | 58 | 376880 | 14.0 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 98 | 327019 | 14.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 93 | 1780646 | 12.9 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 88 | 530915 | 12.4 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.105 | 4.105 | 0.0 | 95 | 374646 | 10.9 | |
| 30 Ethylene oxide | 43 | 4.621 | 4.621 | 0.0 | 100 | 1141743 | 1449.3 | |
| 33 Dichlorofluoromethane | 67 | 4.887 | 4.887 | 0.0 | 83 | 808648 | 10.2 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.138 | 5.138 | 0.0 | 80 | 422532 | 10.3 | |
| 38 Ethyl ether | 59 | 5.166 | 5.166 | 0.0 | 90 | 178838 | 9.78 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.180 | 5.180 | 0.0 | 87 | 604353 | 9.74 | |
| 39 Propene oxide | 58 | 5.264 | 5.264 | 0.0 | 96 | 1344365 | 489.2 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.417 | 0.0 | 86 | 324563 | 10.7 | |
| 44 Isopropyl alcohol | 45 | 5.417 | 5.417 | 0.0 | 38 | 116403 | 185.9 | |
| 49 3-Chloro-1-propene | 41 | 5.697 | 5.697 | 0.0 | 63 | 536357 | 10.5 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 98 | 1560313 | 9.37 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 90 | 550122 | 9.81 | |
| 56 Hexane | 57 | 6.190 | 6.190 | 0.0 | 94 | 664747 | 8.77 | |
| 61 Tert-butyl ethyl ether | 59 | 6.569 | 6.569 | 0.0 | 98 | 3921776 | 51.2 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 98 | 241411 | 324.8 | |
| 71 Tetrahydrofuran | 42 | 6.990 | 6.990 | 0.0 | 85 | 56441 | 19.2 | |
| 74 Cyclohexane | 56 | 7.276 | 7.276 | 0.0 | 91 | 781424 | 9.36 | |
| 78 Tert-amyl methyl ether | 73 | 7.469 | 7.469 | 0.0 | 98 | 2910019 | 50.0 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 99 | 308968 | 33.4 | |
| 83 Methyl methacrylate | 100 | 8.063 | 8.063 | 0.0 | 89 | 65219 | 18.3 | |
| 85 Methylcyclohexane | 55 | 8.142 | 8.142 | 0.0 | 91 | 638387 | 9.63 | |
| 89 2-Nitropropane | 41 | 8.420 | 8.420 | 0.0 | 54 | 23008 | 10.5 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.428 | 8.428 | 0.0 | 93 | 92985 | 9.58 | |
| 94 Ethyl methacrylate | 69 | 8.971 | 8.971 | 0.0 | 90 | 376307 | 16.8 | |
| 101 Tetrahydrothiophene | 60 | 9.514 | 9.514 | 0.0 | 83 | 30625 | 7.20 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.651 | 10.651 | 0.0 | 1 | 17408 | 8.85 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.859 | 10.859 | 0.0 | 83 | 25078 | 9.32 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.774 | 11.774 | 0.0 | 97 | 1276882 | 9.69 | |

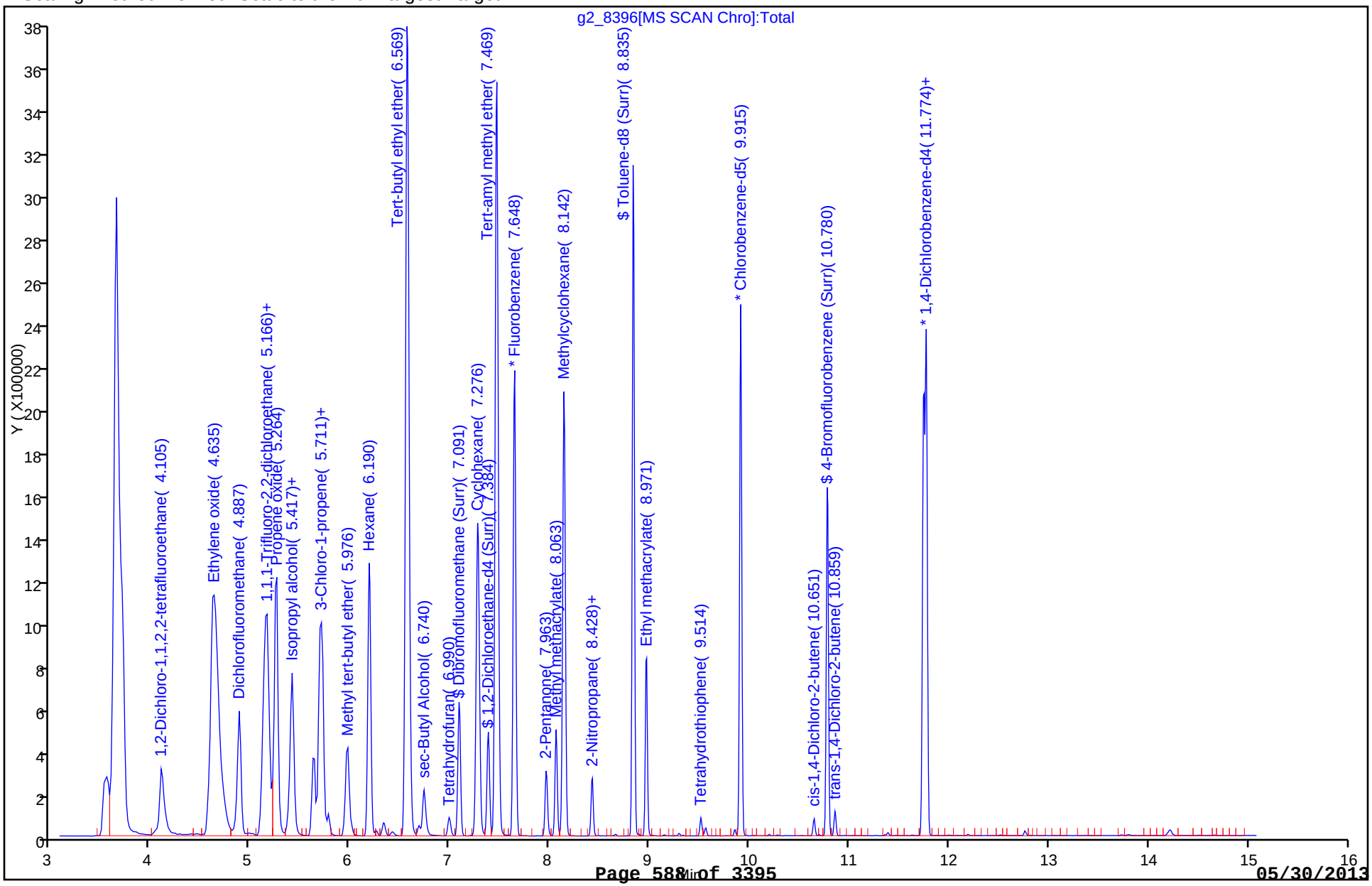
Report Date: 16-May-2013 17:07:55 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8396.D

| | | | |
|---|---|---|---|
| Injection Date: | 15-May-2013 20:33:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 3 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174695/2 Calibration Date: 05/17/2013 07:14

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 19:32

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2013 21:47

Lab File ID: g2_8486.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Lin1 | | 0.2820 | | 50.7 | 50.0 | 1.4 | 20.0 |
| Chloromethane | Ave | 0.2773 | 0.2761 | | 49.8 | 50.0 | -0.5 | 20.0 |
| Vinyl chloride | Ave | 0.2896 | 0.2858 | | 49.3 | 50.0 | -1.3 | 20.0 |
| Bromomethane | Ave | 0.2238 | 0.2199 | | 49.1 | 50.0 | -1.7 | 20.0 |
| Chloroethane | Ave | 0.1882 | 0.1810 | | 48.1 | 50.0 | -3.8 | 20.0 |
| Ethanol | Ave | 0.0027 | 0.0024 | | 2200 | 2500 | -12.1 | 50.0 |
| Trichlorofluoromethane | Ave | 0.3498 | 0.3780 | | 54.0 | 50.0 | 8.0 | 20.0 |
| Acrolein | Ave | 0.0305 | 0.0308 | | 506 | 500 | 1.3 | 50.0 |
| Acetone | Ave | 0.0909 | 0.0826 | | 182 | 200 | -9.1 | 20.0 |
| 1,1-Dichloroethene | Lin2 | | 0.2159 | | 49.3 | 50.0 | -1.4 | 20.0 |
| Acetonitrile | Ave | 0.0294 | 0.0253 | | 431 | 500 | -13.9 | 50.0 |
| Iodomethane | Ave | 0.3053 | 0.3312 | | 54.3 | 50.0 | 8.5 | 35.0 |
| 2-Methyl-2-propanol | Ave | 0.0302 | 0.0286 | | 948 | 1000 | -5.2 | 50.0 |
| Methylene Chloride | Ave | 0.3127 | 0.2724 | | 43.6 | 50.0 | -12.9 | 20.0 |
| Acrylonitrile | Ave | 0.0932 | 0.0830 | | 446 | 500 | -10.9 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2768 | 0.2922 | | 52.8 | 50.0 | 5.6 | 20.0 |
| Isopropyl ether | Ave | 0.2084 | 0.2111 | | 253 | 250 | 1.3 | 35.0 |
| 1,1-Dichloroethane | Ave | 0.4265 | 0.4282 | | 50.2 | 50.0 | 0.4 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.3605 | 0.3590 | | 49.8 | 50.0 | -0.4 | 35.0 |
| 2-Butanone (MEK) | Ave | 0.1250 | 0.1151 | | 184 | 200 | -7.9 | 20.0 |
| Propionitrile | Ave | 0.0352 | 0.0323 | | 458 | 500 | -8.3 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2596 | 0.2686 | | 51.7 | 50.0 | 3.5 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.3123 | 0.3516 | | 56.3 | 50.0 | 12.6 | 20.0 |
| Methacrylonitrile | Ave | 0.1486 | 0.1359 | | 457 | 500 | -8.6 | 50.0 |
| Chlorobromomethane | Ave | 0.1204 | 0.1280 | | 53.2 | 50.0 | 6.3 | 20.0 |
| Chloroform | Ave | 0.4043 | 0.4132 | | 51.1 | 50.0 | 2.2 | 20.0 |
| Isobutyl alcohol | Ave | 0.0102 | 0.0093 | | 909 | 1000 | -9.1 | 50.0 |
| 1,1,1-Trichloroethane | Ave | 0.3221 | 0.3655 | | 56.7 | 50.0 | 13.5 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.3458 | 0.3582 | | 51.8 | 50.0 | 3.6 | 20.0 |
| Carbon tetrachloride | Ave | 0.2744 | 0.3055 | | 55.7 | 50.0 | 11.3 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.3222 | 0.3233 | | 50.2 | 50.0 | 0.3 | 20.0 |
| Benzene | Ave | 0.9567 | 0.9681 | | 50.6 | 50.0 | 1.2 | 20.0 |
| Trichloroethene | Ave | 0.2345 | 0.2429 | | 51.8 | 50.0 | 3.6 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.2397 | 0.2356 | | 49.1 | 50.0 | -1.7 | 20.0 |
| 1,4-Dioxane | Ave | 0.0022 | 0.0021 | | 2370 | 2500 | -5.3 | 50.0 |
| Dibromomethane | Ave | 0.1377 | 0.1404 | | 51.0 | 50.0 | 2.0 | 20.0 |
| Dichlorobromomethane | Ave | 0.2959 | 0.3000 | | 50.7 | 50.0 | 1.4 | 20.0 |
| cis-1,3-Dichloropropene | Lin2 | | 1.513 | | 45.1 | 50.0 | -9.7 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.2484 | 0.2498 | | 201 | 200 | 0.6 | 20.0 |
| Toluene | Ave | 1.005 | 1.057 | | 52.6 | 50.0 | 5.2 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.3270 | | 46.0 | 50.0 | -8.1 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174695/2 Calibration Date: 05/17/2013 07:14

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 19:32

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2013 21:47

Lab File ID: g2_8486.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | Ave | 0.2015 | 0.2029 | | 50.3 | 50.0 | 0.7 | 20.0 |
| 2-Hexanone | Ave | 0.7863 | 0.7520 | | 191 | 200 | -4.4 | 20.0 |
| 1,3-Dichloropropane | Ave | 1.602 | 1.481 | | 46.2 | 50.0 | -7.6 | 20.0 |
| Tetrachloroethene | Ave | 0.8092 | 0.8398 | | 51.9 | 50.0 | 3.8 | 20.0 |
| Chlorodibromomethane | Ave | 0.8987 | 0.9075 | | 50.5 | 50.0 | 1.0 | 20.0 |
| Ethylene Dibromide | Ave | 0.8964 | 0.8645 | | 48.2 | 50.0 | -3.5 | 20.0 |
| 1-Chlorohexane | Ave | 1.418 | 1.394 | | 48.3 | 49.2 | -1.7 | 35.0 |
| Chlorobenzene | Ave | 2.835 | 2.798 | | 49.3 | 50.0 | -1.3 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.9879 | 0.9710 | | 49.1 | 50.0 | -1.7 | 20.0 |
| Ethylbenzene | Ave | 1.614 | 1.631 | | 50.5 | 50.0 | 1.0 | 20.0 |
| m-Xylene & p-Xylene | Ave | 1.962 | 2.009 | | 102 | 100 | 2.4 | 20.0 |
| o-Xylene | Ave | 1.952 | 2.011 | | 51.5 | 50.0 | 3.1 | 20.0 |
| Styrene | Ave | 3.217 | 3.221 | | 50.1 | 50.0 | 0.1 | 20.0 |
| Bromoform | Lin1 | | 0.5659 | | 45.9 | 50.0 | -8.2 | 20.0 |
| Isopropylbenzene | Ave | 3.222 | 3.283 | | 50.9 | 50.0 | 1.9 | 20.0 |
| Cyclohexanone | Ave | 0.0396 | 0.0363 | | 1830 | 2000 | -8.4 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.8102 | 0.7419 | | 45.8 | 50.0 | -8.4 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2304 | 0.2195 | | 47.6 | 50.0 | -4.7 | 20.0 |
| Bromobenzene | Ave | 0.7674 | 0.7583 | | 49.4 | 50.0 | -1.2 | 20.0 |
| N-Propylbenzene | Ave | 0.9009 | 0.9256 | | 51.4 | 50.0 | 2.7 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.797 | 2.690 | | 48.1 | 50.0 | -3.8 | 20.0 |
| 2-Chlorotoluene | Ave | 0.7710 | 0.7745 | | 50.2 | 50.0 | 0.4 | 20.0 |
| 4-Chlorotoluene | Ave | 0.7571 | 0.7561 | | 49.9 | 50.0 | -0.1 | 20.0 |
| tert-Butylbenzene | Ave | 2.603 | 2.693 | | 51.7 | 50.0 | 3.4 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.653 | 2.740 | | 51.6 | 50.0 | 3.3 | 20.0 |
| sec-Butylbenzene | Ave | 0.7430 | 0.7272 | | 48.9 | 50.0 | -2.1 | 20.0 |
| 4-Isopropyltoluene | Ave | 3.015 | 2.997 | | 49.7 | 50.0 | -0.6 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.443 | 1.444 | | 50.0 | 50.0 | 0.0 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.456 | 1.460 | | 50.1 | 50.0 | 0.3 | 20.0 |
| n-Butylbenzene | Ave | 2.744 | 2.863 | | 52.2 | 50.0 | 4.4 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.371 | 1.375 | | 50.2 | 50.0 | 0.3 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1449 | 0.1413 | | 48.8 | 50.0 | -2.5 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9126 | 0.9447 | | 51.8 | 50.0 | 3.5 | 20.0 |
| Hexachlorobutadiene | Ave | 0.4370 | 0.4565 | | 52.2 | 50.0 | 4.5 | 20.0 |
| Naphthalene | Ave | 2.477 | 2.399 | | 48.4 | 50.0 | -3.1 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.8611 | 0.8689 | | 50.5 | 50.0 | 0.9 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8486.D
Lims ID: CCV Client ID:
Inject. Date: 17-May-2013 07:14:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 174695 Lims Sample ID: 2
Sublist: chrom-SO_VMSG2_8260*sub27
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:28 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 07:44:11

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.638 | 7.638 | 0.0 | 98 | 2534584 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 83 | 606802 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 94 | 951315 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 98 | 714692 | 50.7 | |
| 27 Chloromethane | 50 | 4.157 | 4.157 | 0.0 | 99 | 699685 | 49.8 | |
| 28 Vinyl chloride | 62 | 4.297 | 4.297 | 0.0 | 99 | 724333 | 49.3 | |
| 31 Bromomethane | 94 | 4.674 | 4.674 | 0.0 | 90 | 557445 | 49.1 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 95 | 458858 | 48.1 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 98 | 1274669 | 56.5 | |
| 35 Trichlorofluoromethane | 101 | 5.009 | 5.009 | 0.0 | 98 | 957940 | 54.0 | |
| 34 Ethanol | 45 | 5.009 | 5.009 | 0.0 | 33 | 303548 | 2197.0 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 91 | 781730 | 506.3 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 97 | 837373 | 181.8 | |
| 45 1,1-Dichloroethene | 96 | 5.428 | 5.428 | 0.0 | 98 | 547282 | 49.3 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 99 | 641815 | 430.6 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 98 | 839568 | 54.3 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 96 | 1449822 | 948.5 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 87 | 690488 | 43.6 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 98 | 2104709 | 445.6 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 99 | 740709 | 52.8 | |
| 58 Isopropyl ether | 87 | 6.287 | 6.287 | 0.0 | 96 | 2674747 | 253.2 | |
| 59 1,1-Dichloroethane | 63 | 6.322 | 6.322 | 0.0 | 91 | 1085375 | 50.2 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 87 | 909862 | 49.8 | |
| 62 2-Butanone (MEK) | 43 | 6.687 | 6.687 | 0.0 | 100 | 1166902 | 184.2 | |
| 64 Propionitrile | 54 | 6.737 | 6.737 | 0.0 | 92 | 817843 | 458.5 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 79 | 680826 | 51.7 | |
| 67 2,2-Dichloropropane | 77 | 6.794 | 6.794 | 0.0 | 67 | 891081 | 56.3 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 93 | 3444069 | 457.1 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 89 | 324312 | 53.2 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 70 Chloroform | 83 | 6.959 | 6.959 | 0.0 | 80 | 1047213 | 51.1 | |
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 90 | 469779 | 909.4 | |
| 73 1,1,1-Trichloroethane | 97 | 7.188 | 7.188 | 0.0 | 95 | 926374 | 56.7 | |
| 75 1,1-Dichloropropene | 75 | 7.288 | 7.288 | 0.0 | 92 | 907786 | 51.8 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 77 | 774342 | 55.7 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 78 | 819342 | 50.2 | |
| 79 Benzene | 78 | 7.466 | 7.466 | 0.0 | 96 | 2453660 | 50.6 | |
| 80 n-Butanol | 56 | 7.645 | 7.645 | 0.0 | 89 | 566082 | 1210.7 | |
| 81 Trichloroethene | 95 | 7.931 | 7.931 | 0.0 | 98 | 615762 | 51.8 | |
| 84 1,2-Dichloropropane | 63 | 8.110 | 8.110 | 0.0 | 92 | 597086 | 49.1 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 90 | 267978 | 2367.6 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 89 | 355942 | 51.0 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 96 | 760400 | 50.7 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.603 | 8.603 | 0.0 | 91 | 917878 | 45.1 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.653 | 8.653 | 0.0 | 97 | 2532473 | 201.1 | |
| 93 Toluene | 91 | 8.882 | 8.882 | 0.0 | 98 | 2677941 | 52.6 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.968 | 8.968 | 0.0 | 92 | 828672 | 46.0 | |
| 96 1,1,2-Trichloroethane | 97 | 9.132 | 9.132 | 0.0 | 87 | 514190 | 50.3 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 96 | 1825259 | 191.3 | |
| 98 1,3-Dichloropropane | 76 | 9.268 | 9.268 | 0.0 | 90 | 898622 | 46.2 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 97 | 509594 | 51.9 | |
| 100 Chlorodibromomethane | 129 | 9.461 | 9.461 | 0.0 | 88 | 550660 | 50.5 | |
| 102 Ethylene Dibromide | 107 | 9.583 | 9.583 | 0.0 | 99 | 524607 | 48.2 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 99 | 831622 | 48.3 | |
| 104 Chlorobenzene | 112 | 9.933 | 9.933 | 0.0 | 94 | 1697834 | 49.3 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 989471 | 50.5 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.969 | 0.0 | 92 | 589199 | 49.1 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 98 | 2438716 | 102.4 | |
| 109 Styrene | 104 | 10.362 | 10.362 | 0.0 | 89 | 1954280 | 50.1 | |
| 108 o-Xylene | 106 | 10.362 | 10.362 | 0.0 | 86 | 1220544 | 51.5 | |
| 110 Bromoform | 173 | 10.563 | 10.563 | 0.0 | 97 | 343386 | 45.9 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 3122846 | 50.9 | |
| 113 Cyclohexanone | 55 | 10.741 | 10.741 | 0.0 | 88 | 881661 | 1832.7 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 93 | 705738 | 45.8 | |
| 116 1,2,3-Trichloropropane | 110 | 10.891 | 10.891 | 0.0 | 78 | 208854 | 47.6 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 95 | 721340 | 49.4 | |
| 118 N-Propylbenzene | 120 | 10.949 | 10.949 | 0.0 | 95 | 880574 | 51.4 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 93 | 2559013 | 48.1 | |
| 120 2-Chlorotoluene | 126 | 11.070 | 11.070 | 0.0 | 96 | 736760 | 50.2 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 719239 | 49.9 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 87 | 2561492 | 51.7 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.385 | 0.0 | 97 | 2606489 | 51.6 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 691773 | 48.9 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.628 | 0.0 | 94 | 2851336 | 49.7 | |
| 126 1,3-Dichlorobenzene | 146 | 11.692 | 11.692 | 0.0 | 90 | 1373641 | 50.0 | |
| 127 1,4-Dichlorobenzene | 146 | 11.764 | 11.764 | 0.0 | 95 | 1388716 | 50.1 | |
| 129 n-Butylbenzene | 91 | 11.993 | 11.993 | 0.0 | 95 | 2723665 | 52.2 | |
| 130 1,2-Dichlorobenzene | 146 | 12.121 | 12.121 | 0.0 | 96 | 1308413 | 50.2 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.858 | 12.858 | 0.0 | 78 | 134432 | 48.8 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 93 | 898663 | 51.8 | |
| 133 Hexachlorobutadiene | 225 | 13.973 | 13.973 | 0.0 | 95 | 434250 | 52.2 | |
| 134 Naphthalene | 128 | 14.173 | 14.173 | 0.0 | 97 | 2282252 | 48.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 14.495 | 14.495 | 0.0 | 94 | 826635 | 50.5 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 198.2 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 153.9 | |
| S 138 Total BTEX | 1 | | | | 0 | | 307.6 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 91.1 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 104.5 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 153.9 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 104.5 | |

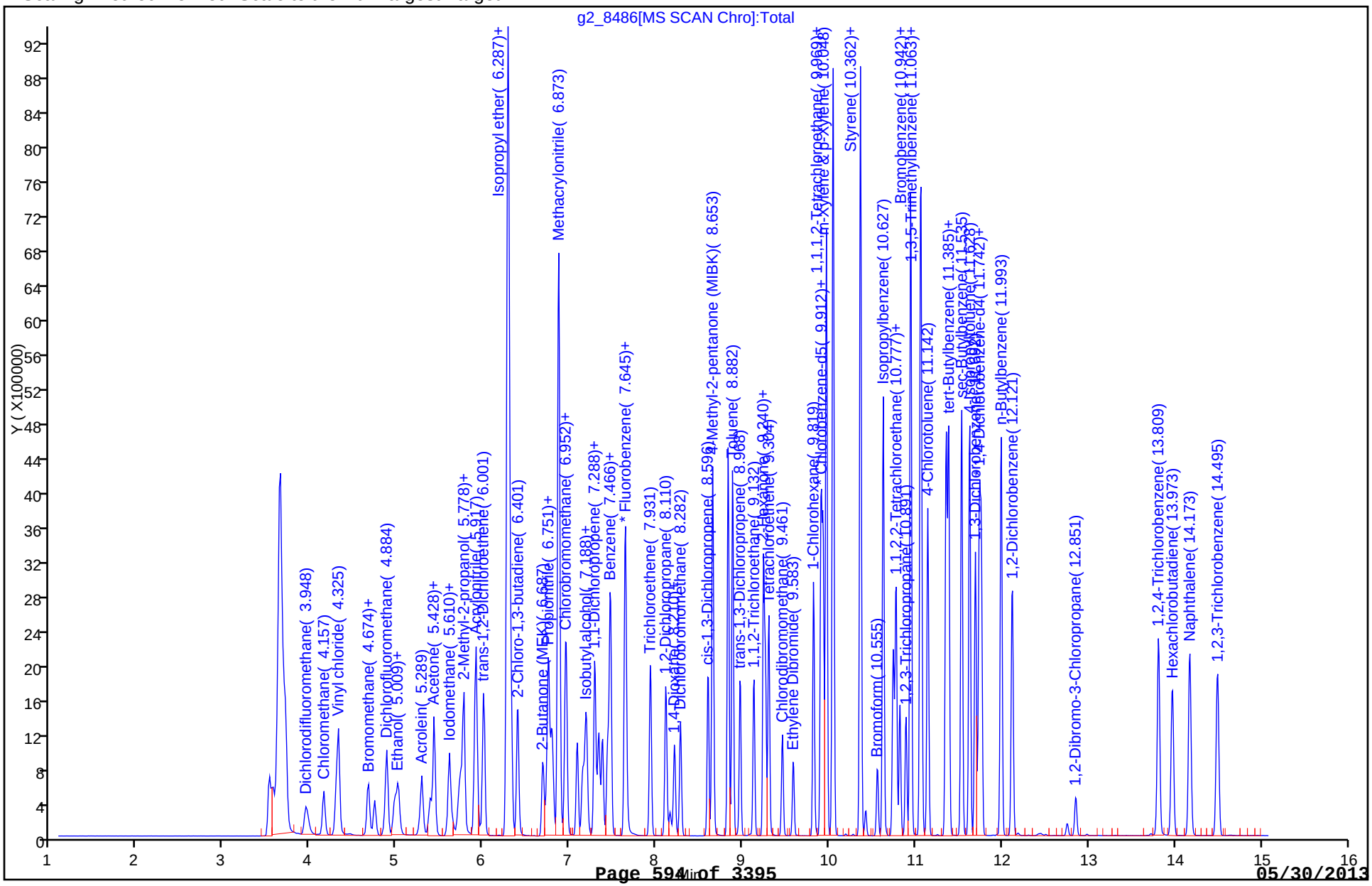
Report Date: 18-May-2013 06:26:29 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8486.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 07:14:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 2 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174695/2 Calibration Date: 05/17/2013 07:14

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 22:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 00:41

Lab File ID: g2_8486.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4451 | 0.5029 | | 56.5 | 50.0 | 13.0 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8486.D
Lims ID: CCV Client ID:
Inject. Date: 17-May-2013 07:14:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 174695 Lims Sample ID: 2
Sublist: chrom-SO_VMSG2_8260*sub27
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:28 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 07:44:11

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.638 | 7.638 | 0.0 | 98 | 2534584 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 83 | 606802 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 94 | 951315 | 50.0 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 98 | 714692 | 50.7 | |
| 27 Chloromethane | 50 | 4.157 | 4.157 | 0.0 | 99 | 699685 | 49.8 | |
| 28 Vinyl chloride | 62 | 4.297 | 4.297 | 0.0 | 99 | 724333 | 49.3 | |
| 31 Bromomethane | 94 | 4.674 | 4.674 | 0.0 | 90 | 557445 | 49.1 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 95 | 458858 | 48.1 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 98 | 1274669 | 56.5 | |
| 35 Trichlorofluoromethane | 101 | 5.009 | 5.009 | 0.0 | 98 | 957940 | 54.0 | |
| 34 Ethanol | 45 | 5.009 | 5.009 | 0.0 | 33 | 303548 | 2197.0 | |
| 41 Acrolein | 56 | 5.289 | 5.289 | 0.0 | 91 | 781730 | 506.3 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.0 | 97 | 837373 | 181.8 | |
| 45 1,1-Dichloroethene | 96 | 5.428 | 5.428 | 0.0 | 98 | 547282 | 49.3 | |
| 46 Acetonitrile | 41 | 5.610 | 5.610 | 0.0 | 99 | 641815 | 430.6 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 98 | 839568 | 54.3 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 96 | 1449822 | 948.5 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 87 | 690488 | 43.6 | |
| 53 Acrylonitrile | 53 | 5.917 | 5.917 | 0.0 | 98 | 2104709 | 445.6 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 99 | 740709 | 52.8 | |
| 58 Isopropyl ether | 87 | 6.287 | 6.287 | 0.0 | 96 | 2674747 | 253.2 | |
| 59 1,1-Dichloroethane | 63 | 6.322 | 6.322 | 0.0 | 91 | 1085375 | 50.2 | |
| 60 2-Chloro-1,3-butadiene | 53 | 6.401 | 6.401 | 0.0 | 87 | 909862 | 49.8 | |
| 62 2-Butanone (MEK) | 43 | 6.687 | 6.687 | 0.0 | 100 | 1166902 | 184.2 | |
| 64 Propionitrile | 54 | 6.737 | 6.737 | 0.0 | 92 | 817843 | 458.5 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 79 | 680826 | 51.7 | |
| 67 2,2-Dichloropropane | 77 | 6.794 | 6.794 | 0.0 | 67 | 891081 | 56.3 | |
| 68 Methacrylonitrile | 41 | 6.873 | 6.873 | 0.0 | 93 | 3444069 | 457.1 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 89 | 324312 | 53.2 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 70 Chloroform | 83 | 6.959 | 6.959 | 0.0 | 80 | 1047213 | 51.1 | |
| 72 Isobutyl alcohol | 41 | 7.152 | 7.152 | 0.0 | 90 | 469779 | 909.4 | |
| 73 1,1,1-Trichloroethane | 97 | 7.188 | 7.188 | 0.0 | 95 | 926374 | 56.7 | |
| 75 1,1-Dichloropropene | 75 | 7.288 | 7.288 | 0.0 | 92 | 907786 | 51.8 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 77 | 774342 | 55.7 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 78 | 819342 | 50.2 | |
| 79 Benzene | 78 | 7.466 | 7.466 | 0.0 | 96 | 2453660 | 50.6 | |
| 80 n-Butanol | 56 | 7.645 | 7.645 | 0.0 | 89 | 566082 | 1210.7 | |
| 81 Trichloroethene | 95 | 7.931 | 7.931 | 0.0 | 98 | 615762 | 51.8 | |
| 84 1,2-Dichloropropane | 63 | 8.110 | 8.110 | 0.0 | 92 | 597086 | 49.1 | |
| 86 1,4-Dioxane | 88 | 8.160 | 8.160 | 0.0 | 90 | 267978 | 2367.6 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 89 | 355942 | 51.0 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 96 | 760400 | 50.7 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.603 | 8.603 | 0.0 | 91 | 917878 | 45.1 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.653 | 8.653 | 0.0 | 97 | 2532473 | 201.1 | |
| 93 Toluene | 91 | 8.882 | 8.882 | 0.0 | 98 | 2677941 | 52.6 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.968 | 8.968 | 0.0 | 92 | 828672 | 46.0 | |
| 96 1,1,2-Trichloroethane | 97 | 9.132 | 9.132 | 0.0 | 87 | 514190 | 50.3 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 96 | 1825259 | 191.3 | |
| 98 1,3-Dichloropropane | 76 | 9.268 | 9.268 | 0.0 | 90 | 898622 | 46.2 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 97 | 509594 | 51.9 | |
| 100 Chlorodibromomethane | 129 | 9.461 | 9.461 | 0.0 | 88 | 550660 | 50.5 | |
| 102 Ethylene Dibromide | 107 | 9.583 | 9.583 | 0.0 | 99 | 524607 | 48.2 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 99 | 831622 | 48.3 | |
| 104 Chlorobenzene | 112 | 9.933 | 9.933 | 0.0 | 94 | 1697834 | 49.3 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 98 | 989471 | 50.5 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.969 | 0.0 | 92 | 589199 | 49.1 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 98 | 2438716 | 102.4 | |
| 109 Styrene | 104 | 10.362 | 10.362 | 0.0 | 89 | 1954280 | 50.1 | |
| 108 o-Xylene | 106 | 10.362 | 10.362 | 0.0 | 86 | 1220544 | 51.5 | |
| 110 Bromoform | 173 | 10.563 | 10.563 | 0.0 | 97 | 343386 | 45.9 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 3122846 | 50.9 | |
| 113 Cyclohexanone | 55 | 10.741 | 10.741 | 0.0 | 88 | 881661 | 1832.7 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 93 | 705738 | 45.8 | |
| 116 1,2,3-Trichloropropane | 110 | 10.891 | 10.891 | 0.0 | 78 | 208854 | 47.6 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 95 | 721340 | 49.4 | |
| 118 N-Propylbenzene | 120 | 10.949 | 10.949 | 0.0 | 95 | 880574 | 51.4 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 93 | 2559013 | 48.1 | |
| 120 2-Chlorotoluene | 126 | 11.070 | 11.070 | 0.0 | 96 | 736760 | 50.2 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 719239 | 49.9 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 87 | 2561492 | 51.7 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.385 | 0.0 | 97 | 2606489 | 51.6 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 691773 | 48.9 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.628 | 0.0 | 94 | 2851336 | 49.7 | |
| 126 1,3-Dichlorobenzene | 146 | 11.692 | 11.692 | 0.0 | 90 | 1373641 | 50.0 | |
| 127 1,4-Dichlorobenzene | 146 | 11.764 | 11.764 | 0.0 | 95 | 1388716 | 50.1 | |
| 129 n-Butylbenzene | 91 | 11.993 | 11.993 | 0.0 | 95 | 2723665 | 52.2 | |
| 130 1,2-Dichlorobenzene | 146 | 12.121 | 12.121 | 0.0 | 96 | 1308413 | 50.2 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.858 | 12.858 | 0.0 | 78 | 134432 | 48.8 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.809 | 13.809 | 0.0 | 93 | 898663 | 51.8 | |
| 133 Hexachlorobutadiene | 225 | 13.973 | 13.973 | 0.0 | 95 | 434250 | 52.2 | |
| 134 Naphthalene | 128 | 14.173 | 14.173 | 0.0 | 97 | 2282252 | 48.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 14.495 | 14.495 | 0.0 | 94 | 826635 | 50.5 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 198.2 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 153.9 | |
| S 138 Total BTEX | 1 | | | | 0 | | 307.6 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 91.1 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 104.5 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 153.9 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 104.5 | |

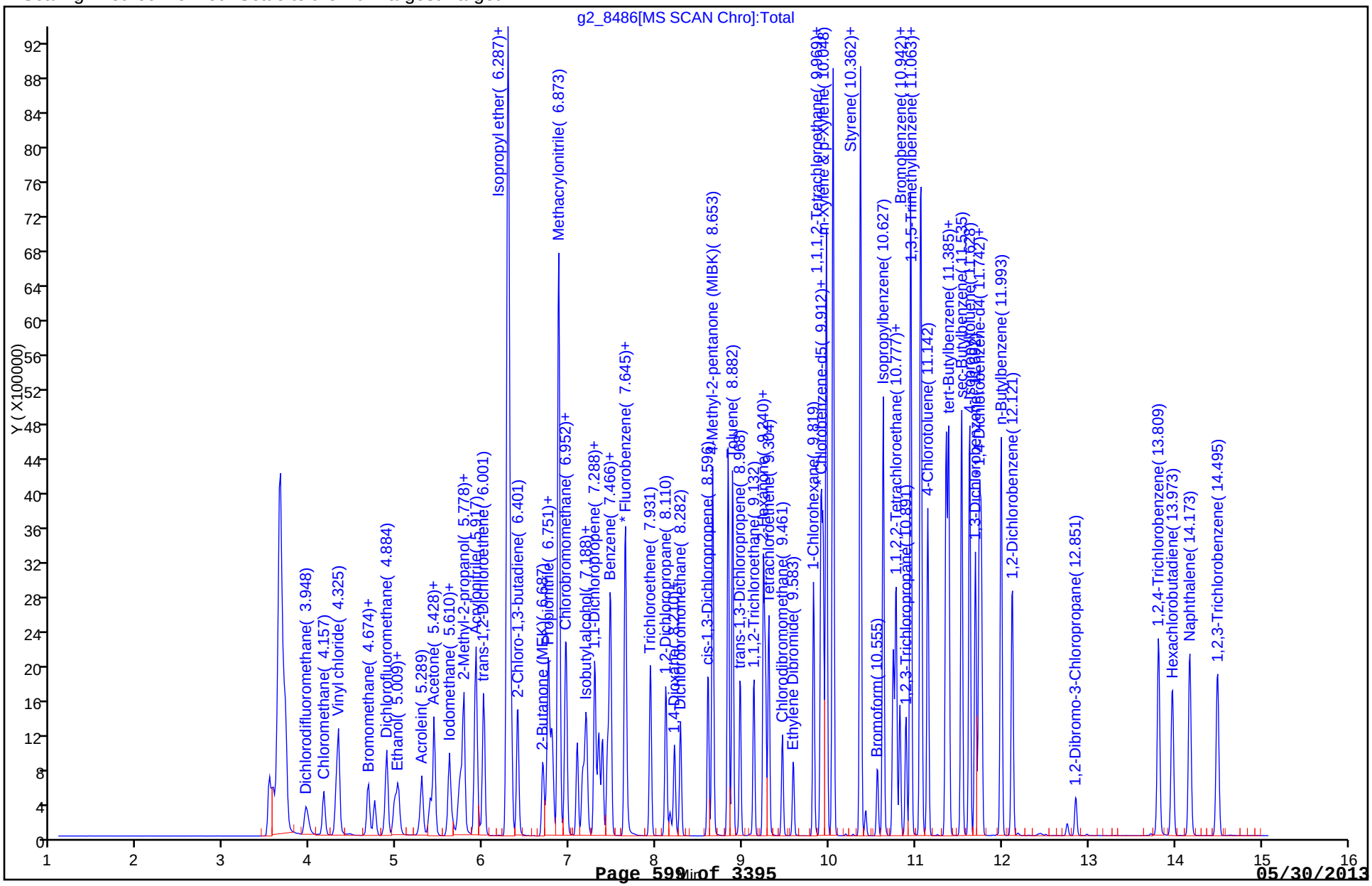
Report Date: 18-May-2013 06:26:29 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8486.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 07:14:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 2 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174695/3 Calibration Date: 05/17/2013 07:33

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 22:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 00:41

Lab File ID: g2_8487.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4451 | 0.5003 | | 56.2 | 50.0 | 12.4 | 50.0 |
| Ethyl ether | Ave | 0.2020 | 0.2076 | | 51.4 | 50.0 | 2.7 | 35.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.3424 | 0.3737 | | 54.6 | 50.0 | 9.1 | 50.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.1690 | 0.2037 | | 60.2 | 50.0 | 20.5 | 50.0 |
| Isopropyl alcohol | Ave | 0.0172 | 0.0155 | | 900 | 1000 | -10.0 | 50.0 |
| Allyl chloride | Ave | 0.3320 | 0.3524 | | 53.1 | 50.0 | 6.1 | 35.0 |
| Carbon disulfide | Ave | 0.7917 | 0.9683 | | 61.2 | 50.0 | 22.3* | 20.0 |
| Methyl tert-butyl ether | Ave | 0.7010 | 0.7195 | | 51.3 | 50.0 | 2.6 | 20.0 |
| Hexane | Ave | 1.673 | 1.696 | | 50.7 | 50.0 | 1.4 | 35.0 |
| Tert-butyl ethyl ether | Ave | 0.6904 | 0.7458 | | 270 | 250 | 8.0 | 35.0 |
| 2-Butanol | Ave | 0.0202 | 0.0172 | | 1550 | 1820 | -14.8 | 50.0 |
| Tetrahydrofuran | Ave | 0.0741 | 0.0629 | | 85.0 | 100 | -15.0 | 50.0 |
| Cyclohexane | Ave | 0.4200 | 0.4648 | | 55.3 | 50.0 | 10.7 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.6128 | 0.6641 | | 271 | 250 | 8.4 | 35.0 |
| 2-Pentanone | Ave | 0.2233 | 0.1960 | | 175 | 200 | -12.3 | 35.0 |
| Methyl methacrylate | Ave | 0.0590 | 0.0616 | | 104 | 100 | 4.5 | 35.0 |
| Methylcyclohexane | Ave | 0.3462 | 0.3965 | | 57.3 | 50.0 | 14.5 | 35.0 |
| 2-Nitropropane | Ave | 0.0511 | 0.0509 | | 49.8 | 50.0 | -0.4 | 50.0 |
| 2-Chloroethyl vinyl ether | Lin1 | | 0.1346 | | 41.2 | 50.0 | -17.5 | 50.0 |
| Ethyl methacrylate | Ave | 1.252 | 1.234 | | 98.6 | 100 | -1.4 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0987 | 0.0931 | | 47.2 | 50.0 | -5.6 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1340 | 0.1291 | | 48.2 | 50.0 | -3.6 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2076 | 0.2260 | | 59.9 | 55.0 | 8.9 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2646 | 0.2519 | | 52.4 | 55.0 | -4.8 | 20.0 |
| Toluene-d8 (Surr) | Ave | 3.778 | 3.882 | | 56.5 | 55.0 | 2.8 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.8749 | 0.8477 | | 53.3 | 55.0 | -3.1 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8487.D
Lims ID: CCV Client ID:
Inject. Date: 17-May-2013 07:33:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 2
Lims Batch ID: 174695 Lims Sample ID: 3
Sublist: chrom-SO_VMSG2_8260*sub41
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:31 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 08:10:50

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.638 | 7.638 | 0.0 | 99 | 2541458 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 85 | 597841 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.742 | 0.0 | 96 | 912818 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 66 | 631856 | 59.9 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.374 | 7.374 | 0.0 | 98 | 704189 | 52.4 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2552873 | 56.5 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 851197 | 53.3 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 97 | 606296 | 89.3 | |
| 30 Ethylene oxide | 43 | 4.618 | 4.618 | 0.0 | 100 | 5266110 | 6352.0 | |
| 33 Dichlorofluoromethane | 67 | 4.870 | 4.870 | 0.0 | 98 | 1271556 | 56.2 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 76 | 679857 | 56.5 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.163 | 5.163 | 0.0 | 84 | 949610 | 54.6 | |
| 38 Ethyl ether | 59 | 5.149 | 5.149 | 0.0 | 93 | 527577 | 51.4 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 6450789 | 2374.2 | |
| 43 Isopropyl alcohol | 45 | 5.401 | 5.401 | 0.0 | 97 | 786086 | 899.7 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.401 | 5.401 | 0.0 | 96 | 517627 | 60.2 | |
| 49 3-Chloro-1-propene | 41 | 5.680 | 5.680 | 0.0 | 81 | 895651 | 53.1 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 98 | 2460922 | 61.2 | |
| 54 Methyl tert-butyl ether | 73 | 5.959 | 5.959 | 0.0 | 91 | 1828582 | 51.3 | |
| 56 Hexane | 57 | 6.179 | 6.179 | 0.0 | 94 | 1013774 | 50.7 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 97 | 9477265 | 270.1 | |
| 65 sec-Butyl Alcohol | 45 | 6.730 | 6.730 | 0.0 | 98 | 1595366 | 1551.7 | |
| 71 Tetrahydrofuran | 42 | 6.980 | 6.980 | 0.0 | 86 | 319929 | 85.0 | |
| 74 Cyclohexane | 56 | 7.273 | 7.273 | 0.0 | 91 | 1181182 | 55.3 | |
| 78 Tert-amyl methyl ether | 73 | 7.459 | 7.459 | 0.0 | 97 | 8439082 | 271.0 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 1992160 | 175.5 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 90 | 313185 | 104.5 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 89 | 1007687 | 57.3 | |
| 89 2-Nitropropane | 41 | 8.410 | 8.410 | 0.0 | 96 | 129237 | 49.8 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.418 | 8.418 | 0.0 | 92 | 342025 | 41.2 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 90 | 1475498 | 98.6 | |
| 101 Tetrahydrothiophene | 60 | 9.512 | 9.512 | 0.0 | 91 | 148198 | 43.2 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 92 | 84989 | 47.2 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 93 | 117861 | 48.2 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.764 | 11.764 | 0.0 | 98 | 2458376 | 52.9 | |

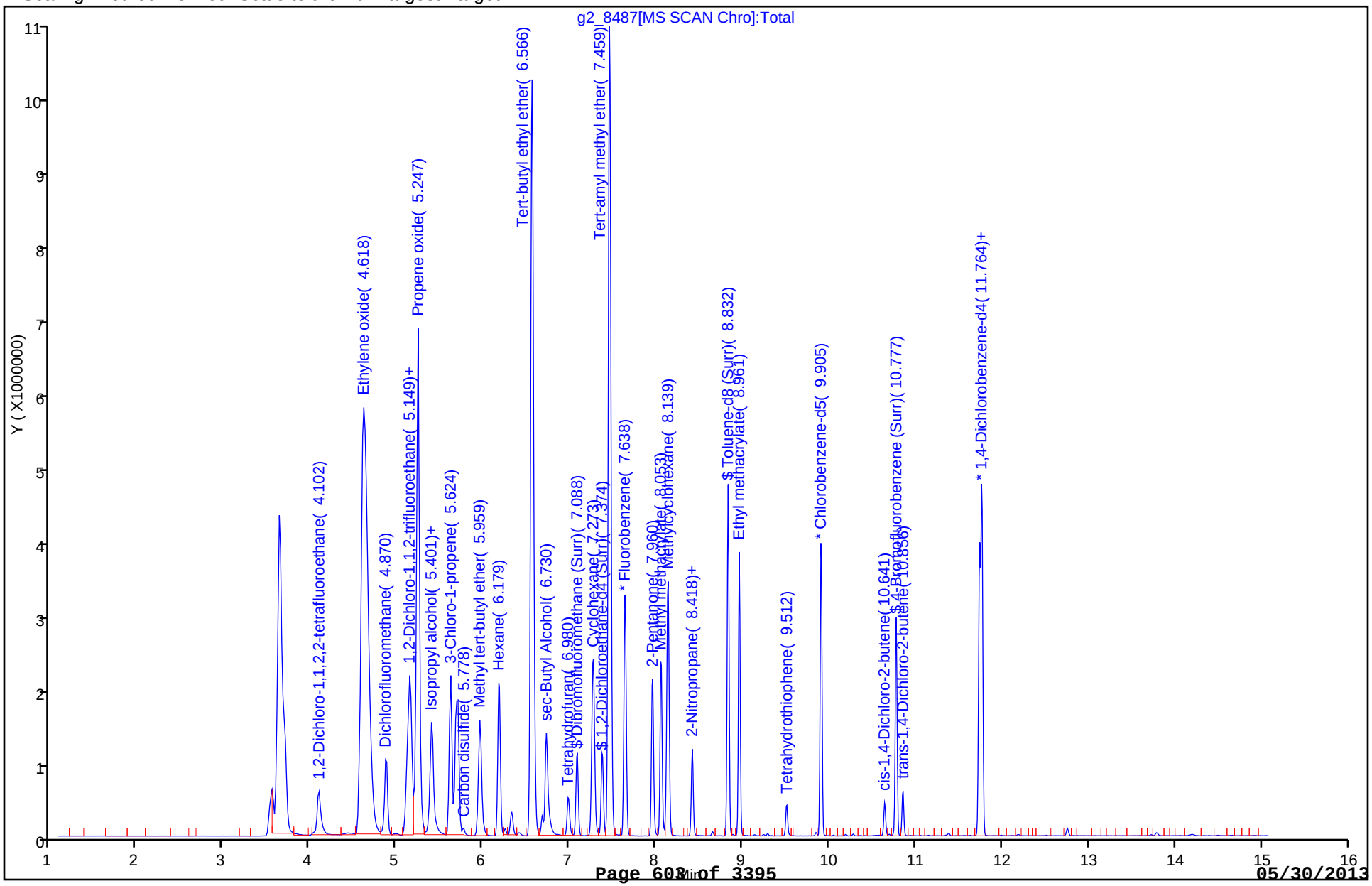
Report Date: 18-May-2013 06:26:31 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8487.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 07:33:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 3 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174695/4 Calibration Date: 05/17/2013 07:53

Instrument ID: VMS_G2 Calib Start Date: 05/10/2013 01:39

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 03:16

Lab File ID: g2_8488.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acetate | Ave | 0.2034 | 0.1556 | | 191 | 250 | -23.5 | 50.0 |
| Vinyl acetate | Ave | 0.4570 | 0.3995 | | 87.4 | 100 | -12.6 | 50.0 |
| Ethyl acetate | Ave | 0.2474 | 0.1900 | | 76.8 | 100 | -23.2 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8488.D | | |
| Lims ID: | CCV | Client ID: | |
| Inject. Date: | 17-May-2013 07:53:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | CCV | | |
| Misc. Info.: | | | |
| Operator: | meierg | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 3 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 4 |
| Sublist: | chrom-SO_VMSG2_8260*sub39 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m | | |
| Last Update: | 18-May-2013 06:26:32 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | XAWRK024 | | |
| First Level Reviewer: meierg | | Date: | 17-May-2013 08:29:49 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.645 | 0.0 | 99 | 2476278 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 85 | 583327 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.735 | 11.735 | 0.0 | 96 | 884420 | 50.0 | |
| 48 Methyl acetate | 43 | 5.624 | 5.624 | 0.0 | 98 | 1926217 | 191.2 | |
| 57 Vinyl acetate | 43 | 6.258 | 6.258 | 0.0 | 97 | 1978511 | 87.4 | |
| 63 Ethyl acetate | 43 | 6.687 | 6.687 | 0.0 | 99 | 940718 | 76.8 | |

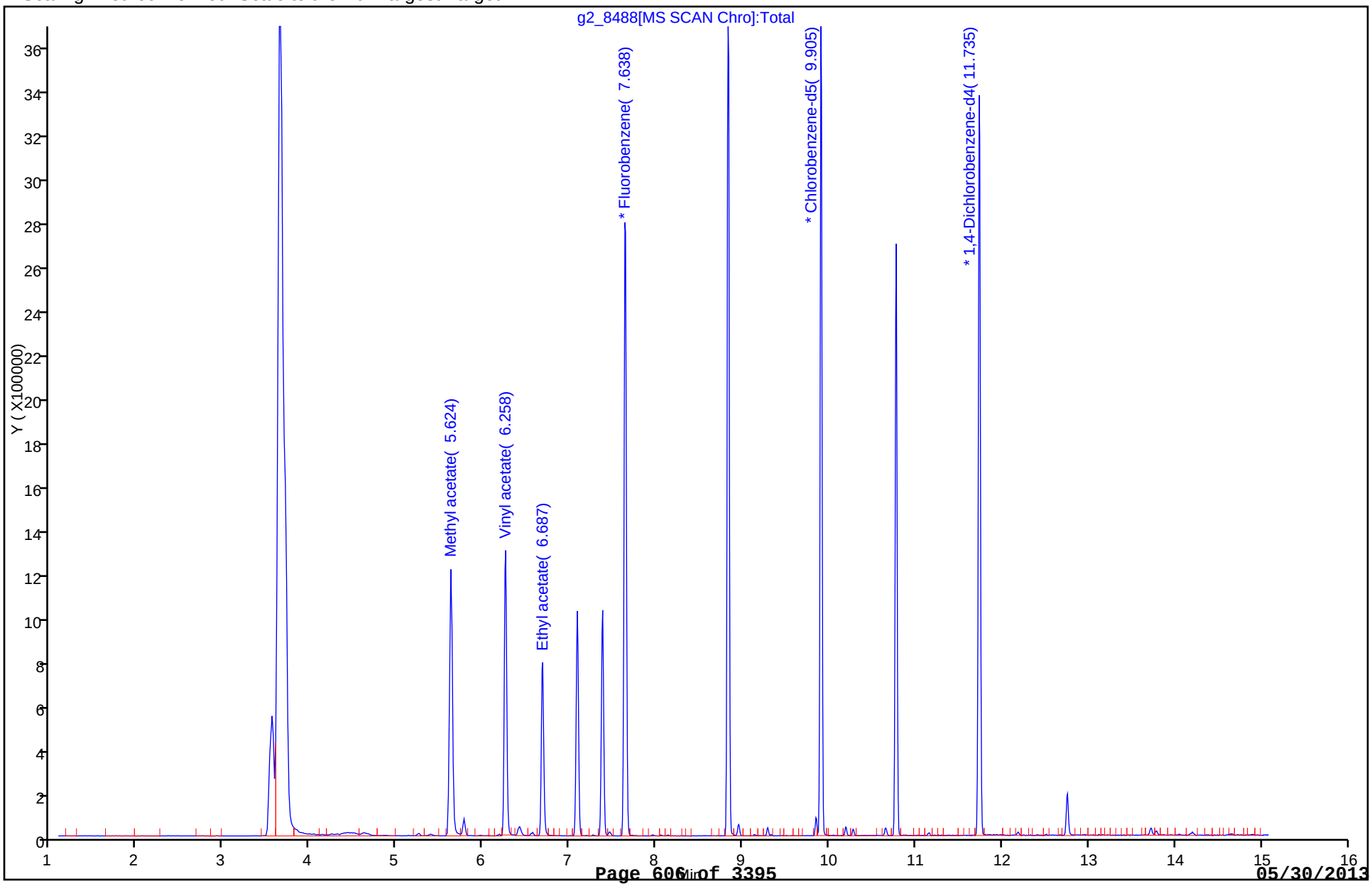
Report Date: 18-May-2013 06:26:32 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8488.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 07:53:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 4 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174695/5 Calibration Date: 05/17/2013 08:23

Instrument ID: VMS_G2 Calib Start Date: 05/09/2013 22:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/10/2013 00:41

Lab File ID: g2_8489.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4451 | 0.4680 | | 52.6 | 50.0 | 5.1 | 50.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.3424 | 0.3636 | | 53.1 | 50.0 | 6.2 | 50.0 |
| Ethyl ether | Ave | 0.2020 | 0.2024 | | 50.1 | 50.0 | 0.2 | 35.0 |
| Isopropyl alcohol | Ave | 0.0172 | 0.0176 | | 1020 | 1000 | 2.4 | 50.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.1690 | 0.1859 | | 55.0 | 50.0 | 9.9 | 50.0 |
| Allyl chloride | Ave | 0.3320 | 0.3402 | | 51.2 | 50.0 | 2.5 | 35.0 |
| Carbon disulfide | Ave | 0.7917 | 0.7954 | | 50.2 | 50.0 | 0.5 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.7010 | 0.7421 | | 52.9 | 50.0 | 5.9 | 20.0 |
| Hexane | Ave | 1.673 | 1.507 | | 45.0 | 50.0 | -9.9 | 35.0 |
| Tert-butyl ethyl ether | Ave | 0.6904 | 0.7505 | | 272 | 250 | 8.7 | 35.0 |
| 2-Butanol | Ave | 0.0202 | 0.0212 | | 1910 | 1820 | 4.8 | 50.0 |
| Tetrahydrofuran | Ave | 0.0741 | 0.0748 | | 101 | 100 | 1.0 | 50.0 |
| Cyclohexane | Ave | 0.4200 | 0.4310 | | 51.3 | 50.0 | 2.6 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.6128 | 0.6860 | | 280 | 250 | 12.0 | 35.0 |
| 2-Pentanone | Ave | 0.2233 | 0.2211 | | 198 | 200 | -1.0 | 35.0 |
| Methyl methacrylate | Ave | 0.0590 | 0.0686 | | 116 | 100 | 16.3 | 35.0 |
| Methylcyclohexane | Ave | 0.3462 | 0.3848 | | 55.6 | 50.0 | 11.1 | 35.0 |
| 2-Nitropropane | Ave | 0.0511 | 0.0579 | | 56.7 | 50.0 | 13.5 | 50.0 |
| 2-Chloroethyl vinyl ether | Lin1 | | 0.1429 | | 43.6 | 50.0 | -12.7 | 50.0 |
| Ethyl methacrylate | Ave | 1.252 | 1.366 | | 109 | 100 | 9.2 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0987 | 0.0991 | | 50.2 | 50.0 | 0.4 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1340 | 0.1445 | | 53.9 | 50.0 | 7.9 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2076 | 0.2248 | | 59.5 | 55.0 | 8.2 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2646 | 0.2655 | | 55.2 | 55.0 | 0.4 | 20.0 |
| Toluene-d8 (Surr) | Ave | 3.778 | 3.897 | | 56.7 | 55.0 | 3.2 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.8749 | 0.8429 | | 53.0 | 55.0 | -3.7 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8489.D
Lims ID: CCV Client ID:
Inject. Date: 17-May-2013 08:23:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 174695 Lims Sample ID: 5
Sublist: chrom-SO_VMSG2_8260*sub41
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 08:52:47

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.638 | 7.638 | 0.0 | 99 | 2537557 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.912 | 9.912 | 0.0 | 85 | 589044 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.742 | 0.0 | 95 | 933653 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 58 | 627356 | 59.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.374 | 7.374 | 0.0 | 98 | 741152 | 55.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2525212 | 56.7 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 88 | 865678 | 53.0 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 4.102 | 4.102 | 0.0 | 94 | 246908 | 36.4 | |
| 30 Ethylene oxide | 43 | 4.632 | 4.632 | 0.0 | 100 | 4776570 | 5770.3 | |
| 33 Dichlorofluoromethane | 67 | 4.884 | 4.884 | 0.0 | 98 | 1187600 | 52.6 | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 5.135 | 5.135 | 0.0 | 79 | 658109 | 54.8 | |
| 38 Ethyl ether | 59 | 5.163 | 5.163 | 0.0 | 92 | 513513 | 50.1 | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 5.163 | 5.163 | 0.0 | 90 | 922597 | 53.1 | |
| 39 Propene oxide | 58 | 5.247 | 5.247 | 0.0 | 96 | 6819655 | 2513.9 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.414 | 5.414 | 0.0 | 93 | 471595 | 55.0 | |
| 43 Isopropyl alcohol | 45 | 5.400 | 5.400 | 0.0 | 97 | 893331 | 1024.1 | |
| 49 3-Chloro-1-propene | 41 | 5.680 | 5.680 | 0.0 | 82 | 863278 | 51.2 | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 99 | 2018439 | 50.2 | |
| 54 Methyl tert-butyl ether | 73 | 5.959 | 5.959 | 0.0 | 91 | 1883129 | 52.9 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 94 | 887878 | 45.0 | |
| 61 Tert-butyl ethyl ether | 59 | 6.566 | 6.566 | 0.0 | 97 | 9522379 | 271.8 | |
| 65 sec-Butyl Alcohol | 45 | 6.730 | 6.730 | 0.0 | 98 | 1958083 | 1907.4 | |
| 71 Tetrahydrofuran | 42 | 6.987 | 6.987 | 0.0 | 87 | 379680 | 101.0 | |
| 74 Cyclohexane | 56 | 7.273 | 7.273 | 0.0 | 91 | 1093784 | 51.3 | |
| 78 Tert-amyl methyl ether | 73 | 7.459 | 7.459 | 0.0 | 97 | 8704079 | 279.9 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 2244236 | 198.0 | |
| 83 Methyl methacrylate | 100 | 8.060 | 8.060 | 0.0 | 90 | 348055 | 116.3 | |
| 85 Methylcyclohexane | 55 | 8.139 | 8.139 | 0.0 | 89 | 976403 | 55.6 | |
| 89 2-Nitropropane | 41 | 8.410 | 8.410 | 0.0 | 83 | 146993 | 56.7 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 8.417 | 8.417 | 0.0 | 89 | 362508 | 43.6 | |
| 94 Ethyl methacrylate | 69 | 8.961 | 8.961 | 0.0 | 90 | 1609805 | 109.2 | |
| 101 Tetrahydrothiophene | 60 | 9.511 | 9.511 | 0.0 | 92 | 167170 | 49.4 | |
| 112 cis-1,4-Dichloro-2-butene | 53 | 10.641 | 10.641 | 0.0 | 89 | 92483 | 50.2 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 93 | 134947 | 53.9 | |
| 128 1,2,3-Trimethylbenzene | 105 | 11.771 | 11.771 | 0.0 | 96 | 2501485 | 52.6 | |

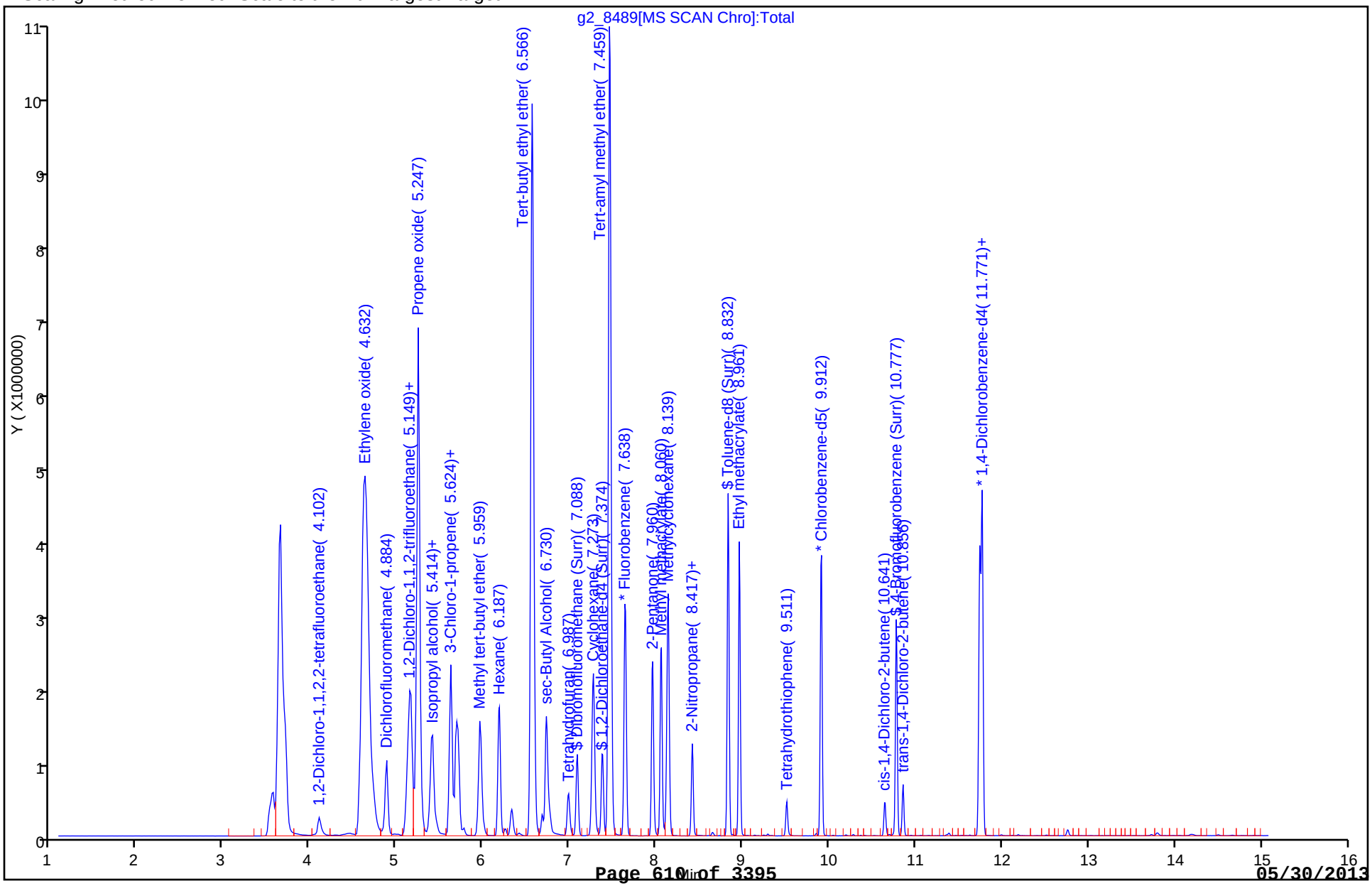
Report Date: 18-May-2013 06:26:33 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8489.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 08:23:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 5 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173382/38 Calibration Date: 05/08/2013 22:17

Instrument ID: VMS_Z Calib Start Date: 05/01/2013 21:57

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/01/2013 23:48

Lab File ID: Z4064.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | Ave | 0.6760 | 0.6049 | | 10.6 | 10.0 | -10.5 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4064.D
Lims ID: icv Client ID:
Inject. Date: 08-May-2013 22:17:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 11
Lims Batch ID: 173382 Lims Sample ID: 38
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 10-May-2013 01:57:36 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 10-May-2013 01:57:36

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.823 | 5.829 | -0.006 | 98 | 1097387 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.353 | 0.012 | 88 | 232411 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.425 | 0.012 | 96 | 410523 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.734 | 1.769 | -0.035 | 96 | 536060 | 9.17 | |
| 25 Chloromethane | 50 | 1.821 | 1.856 | -0.035 | 99 | 375922 | 8.11 | |
| 28 Vinyl chloride | 62 | 1.926 | 1.960 | -0.034 | 97 | 324514 | 9.74 | |
| 30 Bromomethane | 94 | 2.134 | 2.169 | -0.035 | 90 | 340181 | 9.11 | |
| 31 Chloroethane | 64 | 2.169 | 2.204 | -0.035 | 99 | 218442 | 9.41 | |
| 33 Trichlorofluoromethane | 101 | 2.378 | 2.413 | -0.035 | 99 | 778348 | 9.49 | |
| 35 Ethanol | 45 | 2.465 | 2.482 | -0.017 | 51 | 41772 | 546.8 | |
| 41 Acrolein | 56 | 2.657 | 2.691 | -0.035 | 93 | 107649 | 113.6 | |
| 43 1,1-Dichloroethene | 96 | 2.709 | 2.726 | -0.017 | 98 | 360903 | 11.3 | |
| 42 Acetone | 43 | 2.778 | 2.813 | -0.035 | 99 | 119129 | 44.6 | |
| 45 Iodomethane | 142 | 2.865 | 2.883 | -0.017 | 99 | 731217 | 11.1 | |
| 47 Acetonitrile | 41 | 3.144 | 3.178 | -0.034 | 84 | 114864 | 86.1 | M |
| 50 Methylene Chloride | 84 | 3.144 | 3.178 | -0.034 | 97 | 344352 | 10.5 | |
| 51 2-Methyl-2-propanol | 59 | 3.231 | 3.248 | -0.017 | 73 | 239730 | 216.7 | |
| 54 Methyl tert-butyl ether | 73 | 3.353 | 3.370 | -0.017 | 91 | 531005 | 10.6 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.370 | 3.387 | -0.017 | 98 | 385418 | 9.85 | |
| 52 Acrylonitrile | 53 | 3.440 | 3.457 | -0.017 | 96 | 228310 | 83.6 | |
| 58 Isopropyl ether | 87 | 3.805 | 3.822 | -0.017 | 98 | 1357763 | 49.7 | |
| 56 1,1-Dichloroethane | 63 | 3.822 | 3.840 | -0.018 | 97 | 670363 | 9.74 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.875 | 3.892 | -0.017 | 90 | 567652 | 11.3 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.449 | 4.466 | -0.017 | 86 | 388635 | 9.96 | |
| 63 2,2-Dichloropropane | 77 | 4.431 | 4.466 | -0.035 | 81 | 589312 | 9.97 | |
| 61 2-Butanone (MEK) | 43 | 4.484 | 4.483 | 0.001 | 94 | 227831 | 39.5 | |
| 64 Propionitrile | 54 | 4.640 | 4.657 | -0.017 | 73 | 100721 | 102.7 | |
| 68 Chlorobromomethane | 128 | 4.727 | 4.744 | -0.017 | 91 | 169019 | 10.2 | |
| 66 Methacrylonitrile | 41 | 4.762 | 4.779 | -0.017 | 95 | 660239 | 99.9 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.797 | 4.814 | -0.017 | 95 | 692558 | 9.79 | |
| 71 1,1,1-Trichloroethane | 97 | 5.006 | 5.023 | -0.017 | 89 | 694146 | 9.82 | |
| 74 Carbon tetrachloride | 117 | 5.162 | 5.179 | -0.017 | 93 | 635329 | 9.66 | |
| 73 1,1-Dichloropropene | 75 | 5.197 | 5.197 | 0.0 | 96 | 556997 | 9.04 | |
| 75 Isobutyl alcohol | 41 | 5.388 | 5.406 | -0.018 | 84 | 79258 | 194.0 | |
| 77 Benzene | 78 | 5.441 | 5.458 | -0.017 | 94 | 1048517 | 9.75 | |
| 76 1,2-Dichloroethane | 62 | 5.562 | 5.562 | 0.0 | 95 | 295764 | 10.1 | |
| 78 n-Butanol | 56 | 6.293 | 6.293 | 0.0 | 88 | 98602 | 305.3 | |
| 80 Trichloroethene | 95 | 6.293 | 6.310 | -0.017 | 98 | 481844 | 9.56 | |
| 83 1,2-Dichloropropane | 63 | 6.659 | 6.676 | -0.017 | 95 | 368490 | 9.84 | |
| 85 Dibromomethane | 93 | 6.833 | 6.832 | 0.001 | 92 | 236225 | 10.0 | |
| 87 1,4-Dioxane | 88 | 6.850 | 6.850 | 0.0 | 81 | 62189 | 531.4 | |
| 88 Dichlorobromomethane | 83 | 7.041 | 7.059 | -0.018 | 99 | 620868 | 10.1 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.703 | 7.720 | -0.017 | 91 | 511876 | 10.1 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.964 | 7.981 | -0.017 | 97 | 632574 | 37.4 | |
| 93 Toluene | 91 | 8.138 | 8.155 | -0.017 | 98 | 1252264 | 9.75 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.608 | 8.607 | 0.001 | 95 | 387839 | 10.5 | |
| 96 1,1,2-Trichloroethane | 97 | 8.886 | 8.886 | 0.0 | 94 | 245202 | 10.0 | |
| 97 Tetrachloroethene | 164 | 8.938 | 8.938 | 0.0 | 96 | 444995 | 9.90 | |
| 98 1,3-Dichloropropane | 76 | 9.147 | 9.147 | 0.0 | 91 | 377559 | 9.89 | |
| 99 2-Hexanone | 43 | 9.286 | 9.286 | 0.0 | 98 | 416050 | 38.6 | |
| 100 Chlorodibromomethane | 129 | 9.443 | 9.443 | 0.0 | 89 | 420467 | 10.2 | |
| 102 Ethylene Dibromide | 107 | 9.634 | 9.634 | 0.0 | 98 | 303994 | 9.60 | |
| 104 1-Chlorohexane | 91 | 10.400 | 10.400 | 0.0 | 97 | 602201 | 9.71 | |
| 103 Chlorobenzene | 112 | 10.400 | 10.417 | -0.017 | 90 | 868201 | 9.98 | |
| 106 Ethylbenzene | 106 | 10.574 | 10.574 | 0.0 | 99 | 430097 | 9.71 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.574 | 10.574 | 0.0 | 95 | 399294 | 9.89 | |
| 107 m-Xylene & p-Xylene | 106 | 10.783 | 10.782 | 0.001 | 0 | 1124794 | 19.5 | |
| 108 o-Xylene | 106 | 11.444 | 11.461 | -0.017 | 98 | 510678 | 9.74 | |
| 109 Styrene | 104 | 11.496 | 11.496 | 0.0 | 94 | 825506 | 9.90 | |
| 110 Bromoform | 173 | 11.809 | 11.809 | 0.0 | 95 | 277575 | 10.3 | |
| 111 Isopropylbenzene | 105 | 12.088 | 12.087 | 0.001 | 96 | 1622888 | 9.74 | |
| 112 Cyclohexanone | 55 | 12.331 | 12.331 | 0.0 | 93 | 265378 | 544.3 | |
| 114 Bromobenzene | 156 | 12.610 | 12.609 | 0.001 | 96 | 420471 | 10.0 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.749 | 12.749 | 0.0 | 91 | 323195 | 10.3 | |
| 118 N-Propylbenzene | 120 | 12.801 | 12.801 | 0.0 | 98 | 382807 | 9.63 | |
| 116 1,2,3-Trichloropropane | 110 | 12.801 | 12.818 | -0.017 | 49 | 73385 | 10.1 | |
| 119 2-Chlorotoluene | 126 | 12.958 | 12.957 | 0.001 | 95 | 329395 | 9.85 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.149 | 13.149 | 0.0 | 87 | 1244083 | 9.86 | |
| 120 4-Chlorotoluene | 126 | 13.167 | 13.166 | 0.0 | 98 | 356597 | 10.0 | |
| 122 tert-Butylbenzene | 119 | 13.689 | 13.688 | 0.001 | 93 | 1296738 | 10.9 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.810 | 13.810 | 0.0 | 98 | 1199052 | 9.75 | |
| 124 sec-Butylbenzene | 134 | 14.089 | 14.089 | 0.0 | 94 | 342590 | 9.76 | |
| 125 1,3-Dichlorobenzene | 146 | 14.298 | 14.297 | 0.001 | 90 | 716082 | 9.85 | |
| 126 4-Isopropyltoluene | 119 | 14.367 | 14.367 | 0.0 | 95 | 1434729 | 9.45 | |
| 127 1,4-Dichlorobenzene | 146 | 14.472 | 14.471 | 0.001 | 90 | 777296 | 10.2 | |
| 130 n-Butylbenzene | 91 | 15.098 | 15.098 | 0.0 | 95 | 1531130 | 9.50 | |
| 129 1,2-Dichlorobenzene | 146 | 15.133 | 15.133 | 0.0 | 94 | 619612 | 9.92 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.438 | 16.438 | 0.0 | 82 | 61715 | 10.1 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.360 | 17.360 | 0.0 | 94 | 502436 | 9.95 | |
| 133 Hexachlorobutadiene | 225 | 17.499 | 17.499 | 0.0 | 95 | 441712 | 9.92 | |
| 134 Naphthalene | 128 | 17.604 | 17.603 | 0.001 | 96 | 473399 | 9.25 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.830 | 17.830 | 0.0 | 95 | 387723 | 9.59 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.8 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 29.3 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 20.5 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 40.3 | |

QC Flag Legend

Review Flags
M - Manually Integrated

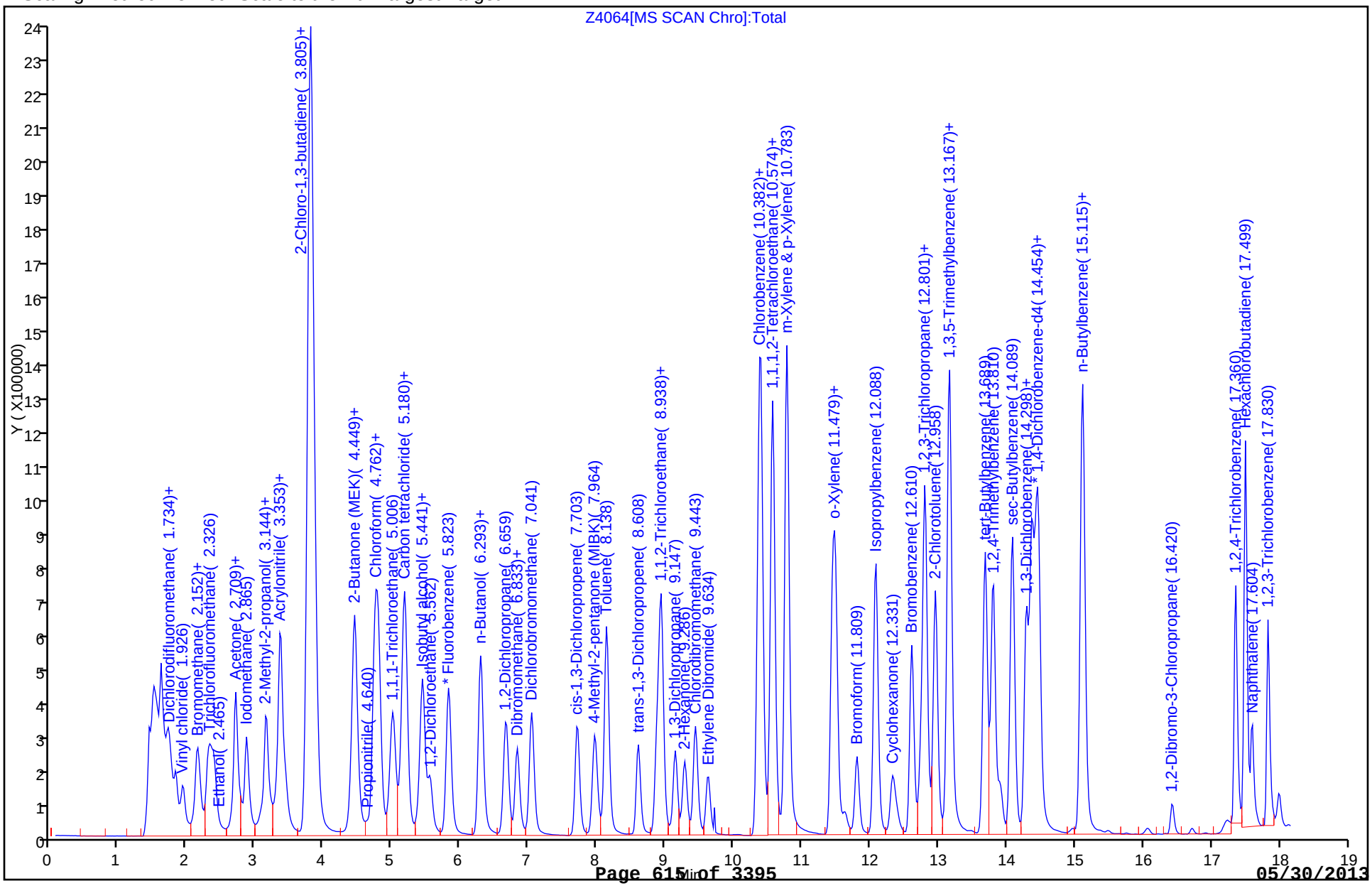
Report Date: 10-May-2013 01:57:37 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4064.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 22:17:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 38 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173382/38 Calibration Date: 05/08/2013 22:17

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 19:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/08/2013 21:33

Lab File ID: Z4064.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.6659 | 0.6106 | | 9.17 | 10.0 | -8.3 | 20.0 |
| Chloromethane | Ave | 0.5277 | 0.4282 | 0.1000 | 8.11 | 10.0 | -18.9 | 20.0 |
| Vinyl chloride | Ave | 0.3796 | 0.3696 | | 9.74 | 10.0 | -2.6 | 20.0 |
| Bromomethane | Ave | 0.4254 | 0.3875 | | 9.11 | 10.0 | -8.9 | 20.0 |
| Chloroethane | Ave | 0.2645 | 0.2488 | | 9.41 | 10.0 | -5.9 | 20.0 |
| Trichlorofluoromethane | Ave | 0.9338 | 0.8866 | | 9.49 | 10.0 | -5.1 | 20.0 |
| Ethanol | Ave | 0.0009 | 0.0010 | | 547 | 500 | 9.4 | 50.0 |
| Acrolein | Ave | 0.0108 | 0.0123 | | 114 | 100 | 13.6 | 55.0 |
| 1,1-Dichloroethene | Ave | 0.3649 | 0.4111 | | 11.3 | 10.0 | 12.6 | 20.0 |
| Acetone | Ave | 0.0304 | 0.0339 | | 44.6 | 40.0 | 11.6 | 20.0 |
| Iodomethane | Ave | 0.7482 | 0.8329 | | 11.1 | 10.0 | 11.3 | 35.0 |
| Acetonitrile | Ave | 0.0152 | 0.0131 | | 86.1 | 100 | -14.0 | 55.0 |
| Methylene Chloride | Lin2 | | 0.3922 | | 10.5 | 10.0 | 5.3 | 20.0 |
| 2-Methyl-2-propanol | Ave | 0.0126 | 0.0137 | | 217 | 200 | 8.3 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.4457 | 0.4390 | | 9.85 | 10.0 | -1.5 | 20.0 |
| Acrylonitrile | Ave | 0.0311 | 0.0260 | | 83.6 | 100 | -16.4 | 55.0 |
| Isopropyl ether | Ave | 0.3114 | 0.3093 | | 49.7 | 50.0 | -0.7 | 35.0 |
| 1,1-Dichloroethane | Ave | 0.7841 | 0.7636 | 0.1000 | 9.74 | 10.0 | -2.6 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.5719 | 0.6466 | | 11.3 | 10.0 | 13.1 | 35.0 |
| 2,2-Dichloropropane | Ave | 0.6734 | 0.6713 | | 9.97 | 10.0 | -0.3 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.4445 | 0.4427 | | 9.96 | 10.0 | -0.4 | 20.0 |
| 2-Butanone (MEK) | Ave | 0.0657 | 0.0649 | | 39.5 | 40.0 | -1.3 | 20.0 |
| Propionitrile | Ave | 0.0112 | 0.0115 | | 103 | 100 | 2.7 | 35.0 |
| Chlorobromomethane | Ave | 0.1887 | 0.1925 | | 10.2 | 10.0 | 2.0 | 20.0 |
| Methacrylonitrile | Ave | 0.0753 | 0.0752 | | 99.9 | 100 | -0.1 | 50.0 |
| Chloroform | Ave | 0.8058 | 0.7889 | | 9.79 | 10.0 | -2.1 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.8049 | 0.7907 | | 9.82 | 10.0 | -1.8 | 20.0 |
| Carbon tetrachloride | Ave | 0.7488 | 0.7237 | | 9.66 | 10.0 | -3.4 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.7015 | 0.6345 | | 9.04 | 10.0 | -9.6 | 20.0 |
| Isobutyl alcohol | Lin1 | | 0.0045 | | 194 | 200 | -3.0 | 50.0 |
| Benzene | Ave | 1.225 | 1.194 | | 9.75 | 10.0 | -2.5 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.3345 | 0.3369 | | 10.1 | 10.0 | 0.7 | 20.0 |
| Trichloroethene | Ave | 0.5741 | 0.5489 | | 9.56 | 10.0 | -4.4 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.4265 | 0.4197 | | 9.84 | 10.0 | -1.6 | 20.0 |
| Dibromomethane | Ave | 0.2687 | 0.2691 | | 10.0 | 10.0 | 0.1 | 20.0 |
| 1,4-Dioxane | Ave | 0.0013 | 0.0014 | | 531 | 500 | 6.3 | 55.0 |
| Dichlorobromomethane | Ave | 0.7033 | 0.7072 | | 10.1 | 10.0 | 0.6 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 2.738 | 2.753 | | 10.1 | 10.0 | 0.6 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.1926 | 0.1801 | | 37.4 | 40.0 | -6.5 | 20.0 |
| Toluene | Ave | 1.462 | 1.426 | | 9.75 | 10.0 | -2.5 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4223 | 0.4418 | | 10.5 | 10.0 | 4.6 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173382/38 Calibration Date: 05/08/2013 22:17

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 19:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/08/2013 21:33

Lab File ID: Z4064.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | Ave | 0.2791 | 0.2793 | | 10.0 | 10.0 | 0.0 | 20.0 |
| Tetrachloroethene | Ave | 2.417 | 2.393 | | 9.90 | 10.0 | -1.0 | 20.0 |
| 1,3-Dichloropropane | Ave | 2.053 | 2.031 | | 9.89 | 10.0 | -1.1 | 20.0 |
| 2-Hexanone | Ave | 0.5796 | 0.5594 | | 38.6 | 40.0 | -3.5 | 20.0 |
| Chlorodibromomethane | Ave | 2.216 | 2.261 | | 10.2 | 10.0 | 2.0 | 20.0 |
| Ethylene Dibromide | Ave | 1.704 | 1.635 | | 9.60 | 10.0 | -4.0 | 20.0 |
| 1-Chlorohexane | Ave | 3.335 | 3.239 | | 9.71 | 10.0 | -2.9 | 35.0 |
| Chlorobenzene | Ave | 4.679 | 4.670 | 0.3000 | 9.98 | 10.0 | -0.2 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 2.171 | 2.148 | | 9.89 | 10.0 | -1.1 | 20.0 |
| Ethylbenzene | Ave | 2.382 | 2.313 | | 9.71 | 10.0 | -2.9 | 20.0 |
| m-Xylene & p-Xylene | Ave | 3.098 | 3.025 | | 19.5 | 20.0 | -2.4 | 20.0 |
| o-Xylene | Ave | 2.819 | 2.747 | | 9.74 | 10.0 | -2.6 | 20.0 |
| Styrene | Ave | 4.483 | 4.440 | | 9.90 | 10.0 | -1.0 | 20.0 |
| Bromoform | Ave | 1.456 | 1.493 | 0.1000 | 10.3 | 10.0 | 2.5 | 20.0 |
| Isopropylbenzene | Ave | 5.071 | 4.942 | | 9.74 | 10.0 | -2.6 | 20.0 |
| Cyclohexanone | Ave | 0.0262 | 0.0571 | | 544 | 250 | 117.7* | 55.0 |
| Bromobenzene | Ave | 1.275 | 1.280 | | 10.0 | 10.0 | 0.4 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9536 | 0.9841 | 0.3000 | 10.3 | 10.0 | 3.2 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2209 | 0.2235 | | 10.1 | 10.0 | 1.2 | 20.0 |
| N-Propylbenzene | Ave | 1.211 | 1.166 | | 9.63 | 10.0 | -3.7 | 20.0 |
| 2-Chlorotoluene | Ave | 1.018 | 1.003 | | 9.85 | 10.0 | -1.5 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.842 | 3.788 | | 9.86 | 10.0 | -1.4 | 20.0 |
| 4-Chlorotoluene | Ave | 1.082 | 1.086 | | 10.0 | 10.0 | 0.3 | 20.0 |
| tert-Butylbenzene | Ave | 3.637 | 3.948 | | 10.9 | 10.0 | 8.6 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 3.745 | 3.651 | | 9.75 | 10.0 | -2.5 | 20.0 |
| sec-Butylbenzene | Ave | 1.068 | 1.043 | | 9.76 | 10.0 | -2.4 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 2.214 | 2.180 | | 9.85 | 10.0 | -1.5 | 20.0 |
| 4-Isopropyltoluene | Ave | 4.624 | 4.369 | | 9.45 | 10.0 | -5.5 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 2.327 | 2.367 | | 10.2 | 10.0 | 1.7 | 20.0 |
| n-Butylbenzene | Ave | 4.908 | 4.662 | | 9.50 | 10.0 | -5.0 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.901 | 1.887 | | 9.92 | 10.0 | -0.8 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1853 | 0.1879 | | 10.1 | 10.0 | 1.4 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.538 | 1.530 | | 9.95 | 10.0 | -0.5 | 20.0 |
| Hexachlorobutadiene | Ave | 1.356 | 1.345 | | 9.92 | 10.0 | -0.8 | 20.0 |
| Naphthalene | Ave | 1.559 | 1.441 | | 9.25 | 10.0 | -7.5 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 1.231 | 1.181 | | 9.59 | 10.0 | -4.1 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4064.D
Lims ID: icv Client ID:
Inject. Date: 08-May-2013 22:17:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 11
Lims Batch ID: 173382 Lims Sample ID: 38
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 10-May-2013 01:57:36 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 10-May-2013 01:57:36

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.823 | 5.829 | -0.006 | 98 | 1097387 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.353 | 0.012 | 88 | 232411 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.425 | 0.012 | 96 | 410523 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.734 | 1.769 | -0.035 | 96 | 536060 | 9.17 | |
| 25 Chloromethane | 50 | 1.821 | 1.856 | -0.035 | 99 | 375922 | 8.11 | |
| 28 Vinyl chloride | 62 | 1.926 | 1.960 | -0.034 | 97 | 324514 | 9.74 | |
| 30 Bromomethane | 94 | 2.134 | 2.169 | -0.035 | 90 | 340181 | 9.11 | |
| 31 Chloroethane | 64 | 2.169 | 2.204 | -0.035 | 99 | 218442 | 9.41 | |
| 33 Trichlorofluoromethane | 101 | 2.378 | 2.413 | -0.035 | 99 | 778348 | 9.49 | |
| 35 Ethanol | 45 | 2.465 | 2.482 | -0.017 | 51 | 41772 | 546.8 | |
| 41 Acrolein | 56 | 2.657 | 2.691 | -0.035 | 93 | 107649 | 113.6 | |
| 43 1,1-Dichloroethene | 96 | 2.709 | 2.726 | -0.017 | 98 | 360903 | 11.3 | |
| 42 Acetone | 43 | 2.778 | 2.813 | -0.035 | 99 | 119129 | 44.6 | |
| 45 Iodomethane | 142 | 2.865 | 2.883 | -0.017 | 99 | 731217 | 11.1 | |
| 47 Acetonitrile | 41 | 3.144 | 3.178 | -0.034 | 84 | 114864 | 86.1 | M |
| 50 Methylene Chloride | 84 | 3.144 | 3.178 | -0.034 | 97 | 344352 | 10.5 | |
| 51 2-Methyl-2-propanol | 59 | 3.231 | 3.248 | -0.017 | 73 | 239730 | 216.7 | |
| 54 Methyl tert-butyl ether | 73 | 3.353 | 3.370 | -0.017 | 91 | 531005 | 10.6 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.370 | 3.387 | -0.017 | 98 | 385418 | 9.85 | |
| 52 Acrylonitrile | 53 | 3.440 | 3.457 | -0.017 | 96 | 228310 | 83.6 | |
| 58 Isopropyl ether | 87 | 3.805 | 3.822 | -0.017 | 98 | 1357763 | 49.7 | |
| 56 1,1-Dichloroethane | 63 | 3.822 | 3.840 | -0.018 | 97 | 670363 | 9.74 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.875 | 3.892 | -0.017 | 90 | 567652 | 11.3 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.449 | 4.466 | -0.017 | 86 | 388635 | 9.96 | |
| 63 2,2-Dichloropropane | 77 | 4.431 | 4.466 | -0.035 | 81 | 589312 | 9.97 | |
| 61 2-Butanone (MEK) | 43 | 4.484 | 4.483 | 0.001 | 94 | 227831 | 39.5 | |
| 64 Propionitrile | 54 | 4.640 | 4.657 | -0.017 | 73 | 100721 | 102.7 | |
| 68 Chlorobromomethane | 128 | 4.727 | 4.744 | -0.017 | 91 | 169019 | 10.2 | |
| 66 Methacrylonitrile | 41 | 4.762 | 4.779 | -0.017 | 95 | 660239 | 99.9 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.797 | 4.814 | -0.017 | 95 | 692558 | 9.79 | |
| 71 1,1,1-Trichloroethane | 97 | 5.006 | 5.023 | -0.017 | 89 | 694146 | 9.82 | |
| 74 Carbon tetrachloride | 117 | 5.162 | 5.179 | -0.017 | 93 | 635329 | 9.66 | |
| 73 1,1-Dichloropropene | 75 | 5.197 | 5.197 | 0.0 | 96 | 556997 | 9.04 | |
| 75 Isobutyl alcohol | 41 | 5.388 | 5.406 | -0.018 | 84 | 79258 | 194.0 | |
| 77 Benzene | 78 | 5.441 | 5.458 | -0.017 | 94 | 1048517 | 9.75 | |
| 76 1,2-Dichloroethane | 62 | 5.562 | 5.562 | 0.0 | 95 | 295764 | 10.1 | |
| 78 n-Butanol | 56 | 6.293 | 6.293 | 0.0 | 88 | 98602 | 305.3 | |
| 80 Trichloroethene | 95 | 6.293 | 6.310 | -0.017 | 98 | 481844 | 9.56 | |
| 83 1,2-Dichloropropane | 63 | 6.659 | 6.676 | -0.017 | 95 | 368490 | 9.84 | |
| 85 Dibromomethane | 93 | 6.833 | 6.832 | 0.001 | 92 | 236225 | 10.0 | |
| 87 1,4-Dioxane | 88 | 6.850 | 6.850 | 0.0 | 81 | 62189 | 531.4 | |
| 88 Dichlorobromomethane | 83 | 7.041 | 7.059 | -0.018 | 99 | 620868 | 10.1 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.703 | 7.720 | -0.017 | 91 | 511876 | 10.1 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.964 | 7.981 | -0.017 | 97 | 632574 | 37.4 | |
| 93 Toluene | 91 | 8.138 | 8.155 | -0.017 | 98 | 1252264 | 9.75 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.608 | 8.607 | 0.001 | 95 | 387839 | 10.5 | |
| 96 1,1,2-Trichloroethane | 97 | 8.886 | 8.886 | 0.0 | 94 | 245202 | 10.0 | |
| 97 Tetrachloroethene | 164 | 8.938 | 8.938 | 0.0 | 96 | 444995 | 9.90 | |
| 98 1,3-Dichloropropane | 76 | 9.147 | 9.147 | 0.0 | 91 | 377559 | 9.89 | |
| 99 2-Hexanone | 43 | 9.286 | 9.286 | 0.0 | 98 | 416050 | 38.6 | |
| 100 Chlorodibromomethane | 129 | 9.443 | 9.443 | 0.0 | 89 | 420467 | 10.2 | |
| 102 Ethylene Dibromide | 107 | 9.634 | 9.634 | 0.0 | 98 | 303994 | 9.60 | |
| 104 1-Chlorohexane | 91 | 10.400 | 10.400 | 0.0 | 97 | 602201 | 9.71 | |
| 103 Chlorobenzene | 112 | 10.400 | 10.417 | -0.017 | 90 | 868201 | 9.98 | |
| 106 Ethylbenzene | 106 | 10.574 | 10.574 | 0.0 | 99 | 430097 | 9.71 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.574 | 10.574 | 0.0 | 95 | 399294 | 9.89 | |
| 107 m-Xylene & p-Xylene | 106 | 10.783 | 10.782 | 0.001 | 0 | 1124794 | 19.5 | |
| 108 o-Xylene | 106 | 11.444 | 11.461 | -0.017 | 98 | 510678 | 9.74 | |
| 109 Styrene | 104 | 11.496 | 11.496 | 0.0 | 94 | 825506 | 9.90 | |
| 110 Bromoform | 173 | 11.809 | 11.809 | 0.0 | 95 | 277575 | 10.3 | |
| 111 Isopropylbenzene | 105 | 12.088 | 12.087 | 0.001 | 96 | 1622888 | 9.74 | |
| 112 Cyclohexanone | 55 | 12.331 | 12.331 | 0.0 | 93 | 265378 | 544.3 | |
| 114 Bromobenzene | 156 | 12.610 | 12.609 | 0.001 | 96 | 420471 | 10.0 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.749 | 12.749 | 0.0 | 91 | 323195 | 10.3 | |
| 118 N-Propylbenzene | 120 | 12.801 | 12.801 | 0.0 | 98 | 382807 | 9.63 | |
| 116 1,2,3-Trichloropropane | 110 | 12.801 | 12.818 | -0.017 | 49 | 73385 | 10.1 | |
| 119 2-Chlorotoluene | 126 | 12.958 | 12.957 | 0.001 | 95 | 329395 | 9.85 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.149 | 13.149 | 0.0 | 87 | 1244083 | 9.86 | |
| 120 4-Chlorotoluene | 126 | 13.167 | 13.166 | 0.0 | 98 | 356597 | 10.0 | |
| 122 tert-Butylbenzene | 119 | 13.689 | 13.688 | 0.001 | 93 | 1296738 | 10.9 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.810 | 13.810 | 0.0 | 98 | 1199052 | 9.75 | |
| 124 sec-Butylbenzene | 134 | 14.089 | 14.089 | 0.0 | 94 | 342590 | 9.76 | |
| 125 1,3-Dichlorobenzene | 146 | 14.298 | 14.297 | 0.001 | 90 | 716082 | 9.85 | |
| 126 4-Isopropyltoluene | 119 | 14.367 | 14.367 | 0.0 | 95 | 1434729 | 9.45 | |
| 127 1,4-Dichlorobenzene | 146 | 14.472 | 14.471 | 0.001 | 90 | 777296 | 10.2 | |
| 130 n-Butylbenzene | 91 | 15.098 | 15.098 | 0.0 | 95 | 1531130 | 9.50 | |
| 129 1,2-Dichlorobenzene | 146 | 15.133 | 15.133 | 0.0 | 94 | 619612 | 9.92 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.438 | 16.438 | 0.0 | 82 | 61715 | 10.1 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.360 | 17.360 | 0.0 | 94 | 502436 | 9.95 | |
| 133 Hexachlorobutadiene | 225 | 17.499 | 17.499 | 0.0 | 95 | 441712 | 9.92 | |
| 134 Naphthalene | 128 | 17.604 | 17.603 | 0.001 | 96 | 473399 | 9.25 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.830 | 17.830 | 0.0 | 95 | 387723 | 9.59 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.8 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 29.3 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 20.5 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 40.3 | |

QC Flag Legend

Review Flags
M - Manually Integrated

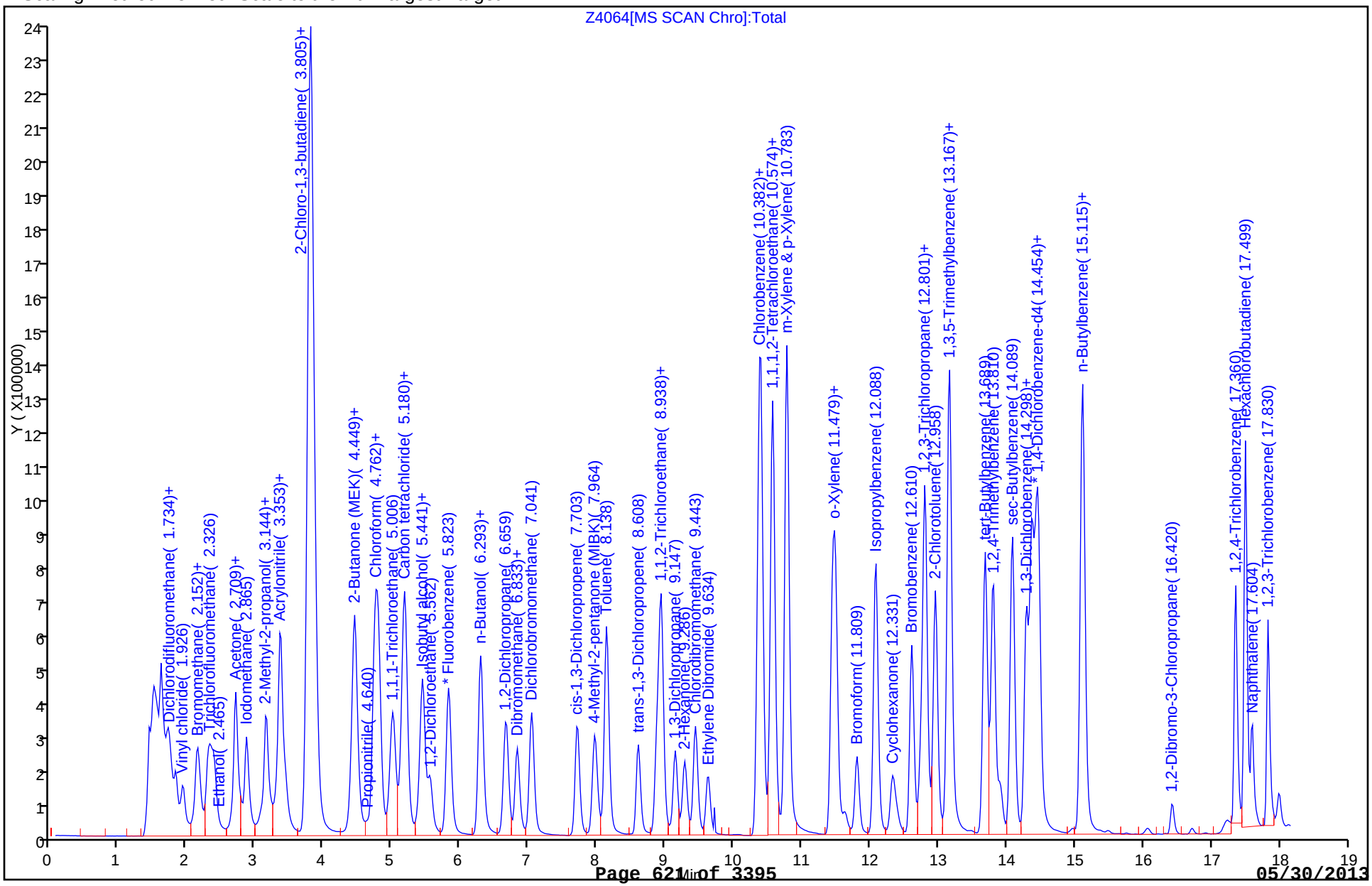
Report Date: 10-May-2013 01:57:37 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4064.D

| | | | |
|---|---|---|---|
| Injection Date: | 08-May-2013 22:17:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 38 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

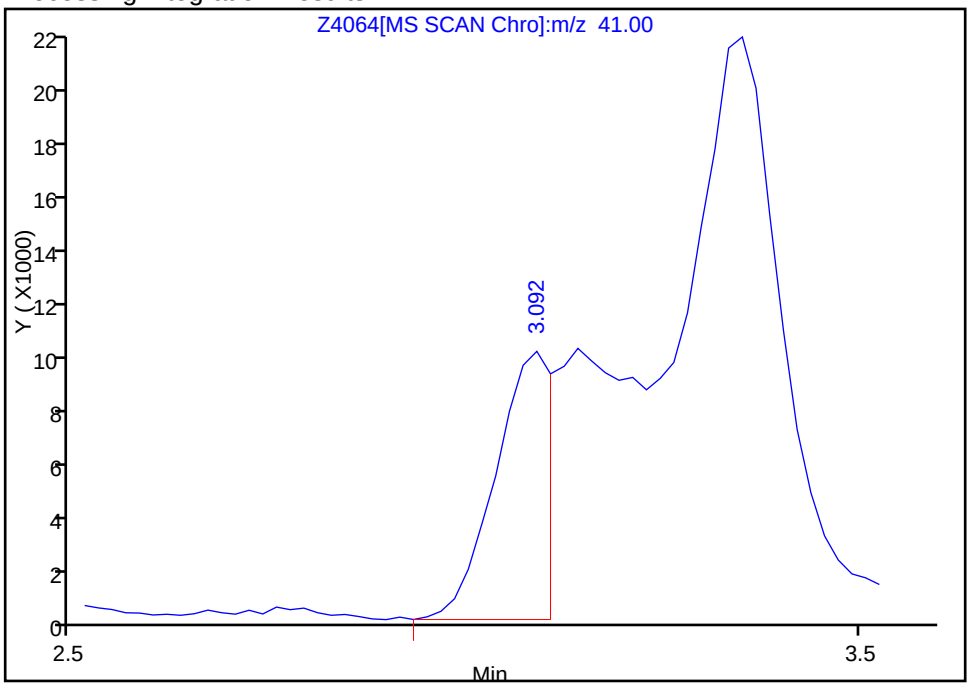
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4064.D | | |
| Injection Date: | 08-May-2013 22:17:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 38 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

47 Acetonitrile, Signal: 1, m/z: 41.0 Type: quant, RT: 3.18

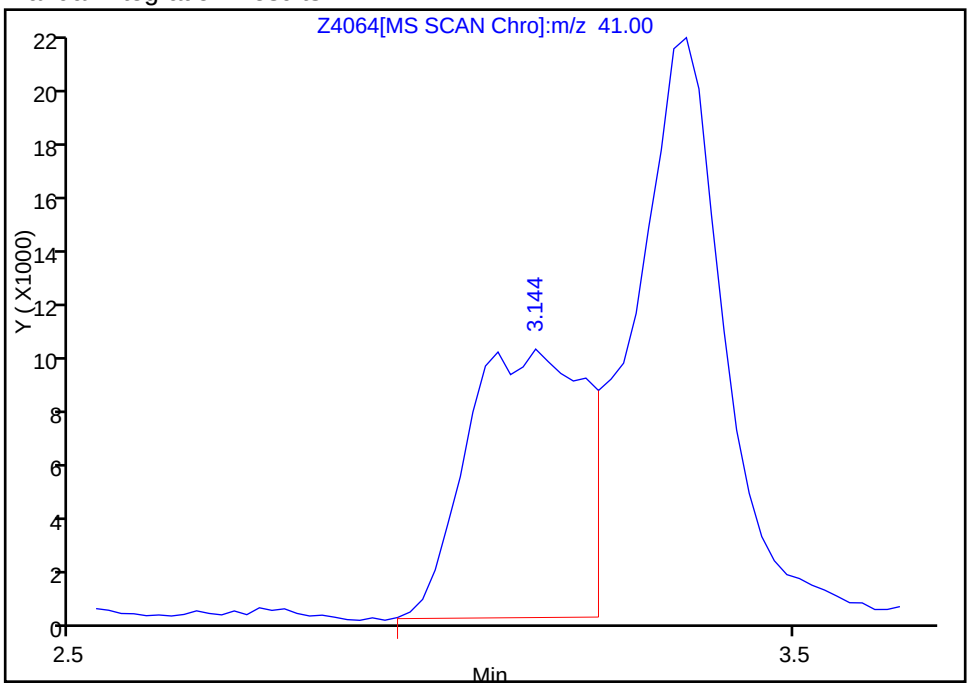
Processing Integration Results

RT: 3.09
Response: 49712
Amount: 37.284318




Manual Integration Results

RT: 3.14
Response: 114864
Amount: 86.148735




Reviewer: tinkhams, 10-May-2013 01:57:36
Audit Action: Assigned New Baseline
Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173382/51 Calibration Date: 05/09/2013 03:06

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 22:40

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 00:31

Lab File ID: Z4077.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.8435 | 0.8576 | | 10.2 | 10.0 | 1.7 | 50.0 |
| Ethyl ether | Ave | 0.2211 | 0.1747 | | 7.90 | 10.0 | -21.0 | 35.0 |
| Isopropyl alcohol | Ave | 0.0073 | 0.0071 | | 193 | 200 | -3.3 | 50.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.9313 | 0.9456 | | 10.2 | 10.0 | 1.5 | 50.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.4905 | 0.5080 | | 10.4 | 10.0 | 3.6 | 35.0 |
| Carbon disulfide | Ave | 1.202 | 1.272 | | 10.6 | 10.0 | 5.9 | 20.0 |
| Allyl chloride | Ave | 0.4982 | 0.5106 | | 10.2 | 10.0 | 2.5 | 35.0 |
| Methyl tert-butyl ether | Ave | 0.5688 | 0.5598 | | 9.84 | 10.0 | -1.6 | 20.0 |
| Hexane | Ave | 2.550 | 2.758 | | 10.8 | 10.0 | 8.2 | 20.0 |
| Tert-butyl ethyl ether | Ave | 1.000 | 0.9819 | | 49.1 | 50.0 | -1.9 | 35.0 |
| Tetrahydrofuran | Ave | 0.0369 | 0.0325 | | 17.6 | 20.0 | -12.0 | 55.0 |
| Cyclohexane | Ave | 0.6162 | 0.6515 | | 10.6 | 10.0 | 5.7 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.7674 | 0.7634 | | 49.7 | 50.0 | -0.5 | 35.0 |
| Methylcyclohexane | Ave | 0.5814 | 0.5935 | | 10.2 | 10.0 | 2.1 | 35.0 |
| 2-Pentanone | Ave | 0.1332 | 0.1092 | | 32.8 | 40.0 | -18.0 | 55.0 |
| Methyl methacrylate | Ave | 0.0543 | 0.0533 | | 19.6 | 20.0 | -1.8 | 35.0 |
| 2-Nitropropane | Lin2 | | 0.0373 | | 9.42 | 10.0 | -5.8 | 55.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1290 | 0.1398 | | 10.8 | 10.0 | 8.4 | 55.0 |
| Ethyl methacrylate | Ave | 1.303 | 1.332 | | 20.4 | 20.0 | 2.2 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0806 | 0.0899 | | 11.1 | 10.0 | 11.5 | 55.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1045 | 0.1098 | | 10.5 | 10.0 | 5.1 | 55.0 |
| Dibromofluoromethane (Surr) | Ave | 0.6553 | 0.6430 | | 9.81 | 10.0 | -1.9 | 35.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2959 | 0.2896 | | 9.79 | 10.0 | -2.1 | 35.0 |
| Toluene-d8 (Surr) | Ave | 6.015 | 6.039 | | 10.0 | 10.0 | 0.4 | 35.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 1.953 | 1.926 | | 9.87 | 10.0 | -1.3 | 35.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4077.D
Lims ID: icv Client ID:
Inject. Date: 09-May-2013 03:06:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 24
Lims Batch ID: 173382 Lims Sample ID: 51
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m
Last Update: 09-May-2013 06:27:44 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK005

First Level Reviewer: meierg Date: 09-May-2013 06:12:55

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.828 | 5.829 | -0.001 | 98 | 1166907 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.352 | 10.353 | -0.001 | 89 | 246776 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.424 | 14.425 | -0.001 | 97 | 432282 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.010 | 5.006 | 0.004 | 80 | 600244 | 9.81 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.463 | 5.458 | 0.005 | 83 | 270331 | 9.79 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.038 | 8.034 | 0.004 | 93 | 1192172 | 10.0 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.388 | 12.401 | -0.013 | 85 | 666200 | 9.87 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.826 | 1.839 | -0.013 | 93 | 662284 | 13.5 | |
| 29 Ethylene oxide | 43 | 2.122 | 2.117 | 0.005 | 99 | 572445 | 1152.9 | |
| 32 Dichlorofluoromethane | 67 | 2.348 | 2.344 | 0.004 | 97 | 800560 | 10.2 | |
| 37 Isopropyl alcohol | 45 | 2.505 | 2.500 | 0.005 | 66 | 132396 | 193.4 | |
| 36 Ethyl ether | 59 | 2.505 | 2.500 | 0.005 | 94 | 163064 | 7.90 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.557 | 2.553 | 0.005 | 85 | 563944 | 10.0 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.592 | 2.605 | -0.013 | 79 | 882706 | 10.2 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.731 | 2.744 | -0.013 | 92 | 474245 | 10.4 | |
| 46 Carbon disulfide | 76 | 2.922 | 2.918 | 0.004 | 99 | 1187685 | 10.6 | |
| 48 3-Chloro-1-propene | 41 | 3.027 | 3.022 | 0.005 | 92 | 476650 | 10.2 | |
| 54 Methyl tert-butyl ether | 73 | 3.357 | 3.370 | -0.013 | 90 | 522623 | 9.84 | |
| 55 Hexane | 57 | 3.549 | 3.544 | 0.005 | 95 | 544408 | 10.8 | |
| 60 Tert-butyl ethyl ether | 59 | 4.193 | 4.206 | -0.013 | 99 | 4583137 | 49.1 | |
| 70 Tetrahydrofuran | 42 | 4.749 | 4.745 | 0.004 | 92 | 60641 | 17.6 | |
| 72 Cyclohexane | 56 | 5.010 | 5.006 | 0.004 | 86 | 608230 | 10.6 | |
| 79 Tert-amyl methyl ether | 73 | 5.567 | 5.580 | -0.013 | 97 | 3563324 | 49.7 | |
| 84 Methylcyclohexane | 55 | 6.472 | 6.485 | -0.013 | 92 | 554029 | 10.2 | |
| 82 2-Pentanone | 43 | 6.629 | 6.624 | 0.005 | 98 | 407883 | 32.8 | |
| 86 Methyl methacrylate | 100 | 6.803 | 6.816 | -0.013 | 94 | 99443 | 19.6 | |
| 89 2-Nitropropane | 41 | 7.481 | 7.512 | -0.031 | 83 | 34843 | 9.42 | |
| 90 2-Chloroethyl vinyl ether | 63 | 7.516 | 7.512 | 0.004 | 91 | 130520 | 10.8 | |
| 95 Ethyl methacrylate | 69 | 8.699 | 8.695 | 0.004 | 92 | 525868 | 20.4 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 101 Tetrahydrothiophene | 60 | 9.378 | 9.374 | 0.004 | 88 | 38863 | 10.8 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.336 | 12.332 | 0.004 | 0 | 31083 | 11.1 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.858 | 12.871 | -0.013 | 92 | 37976 | 10.5 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.546 | 14.542 | 0.004 | 90 | 1139728 | 10.2 | |

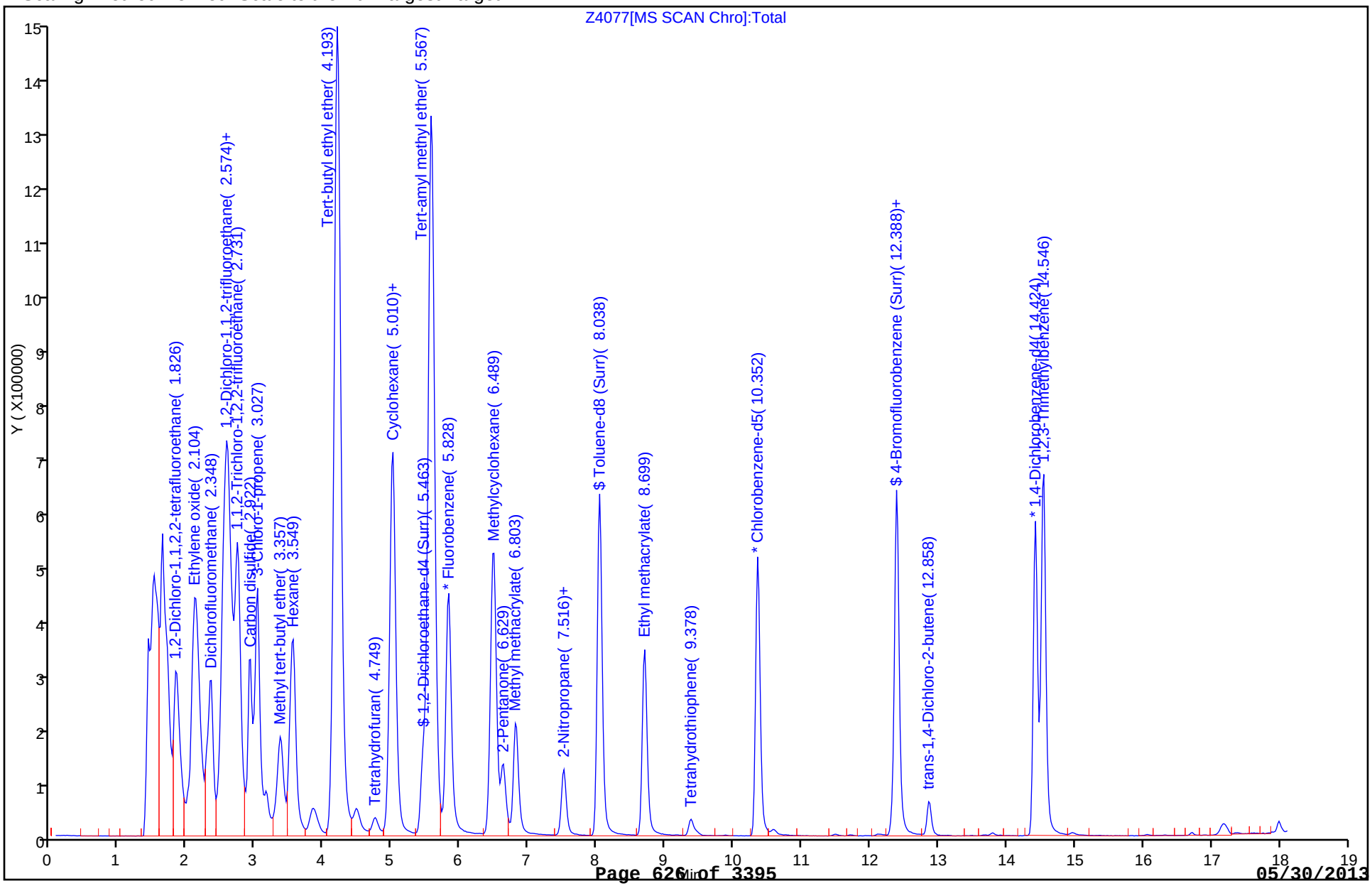
Report Date: 09-May-2013 06:27:45 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4077.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 03:06:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 51 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICV 280-173382/52 Calibration Date: 05/09/2013 03:28

Instrument ID: VMS_Z Calib Start Date: 05/09/2013 00:53

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 02:44

Lab File ID: Z4078.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acetate | Ave | 0.1068 | 0.1059 | | 49.6 | 50.0 | -0.8 | 55.0 |
| Vinyl acetate | Ave | 0.4423 | 0.4127 | | 18.7 | 20.0 | -6.7 | 55.0 |
| Ethyl acetate | Ave | 0.1681 | 0.1625 | | 19.3 | 20.0 | -3.3 | 55.0 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4078.D | | |
| Lims ID: | icv | Client ID: | |
| Inject. Date: | 09-May-2013 03:28:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICV | | |
| Sample ID: | icv | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 25 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 52 |
| Sublist: | | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:44 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: meierg | | Date: | 09-May-2013 06:13:13 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.827 | 5.829 | -0.002 | 98 | 1145364 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.351 | 10.353 | -0.002 | 93 | 244573 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.423 | 14.425 | -0.002 | 97 | 431594 | 12.5 | |
| 49 Methyl acetate | 43 | 3.043 | 3.027 | 0.016 | 99 | 485291 | 49.6 | |
| 57 Vinyl acetate | 43 | 3.826 | 3.828 | -0.002 | 97 | 756207 | 18.7 | |
| 65 Ethyl acetate | 43 | 4.487 | 4.489 | -0.002 | 99 | 297736 | 19.3 | |

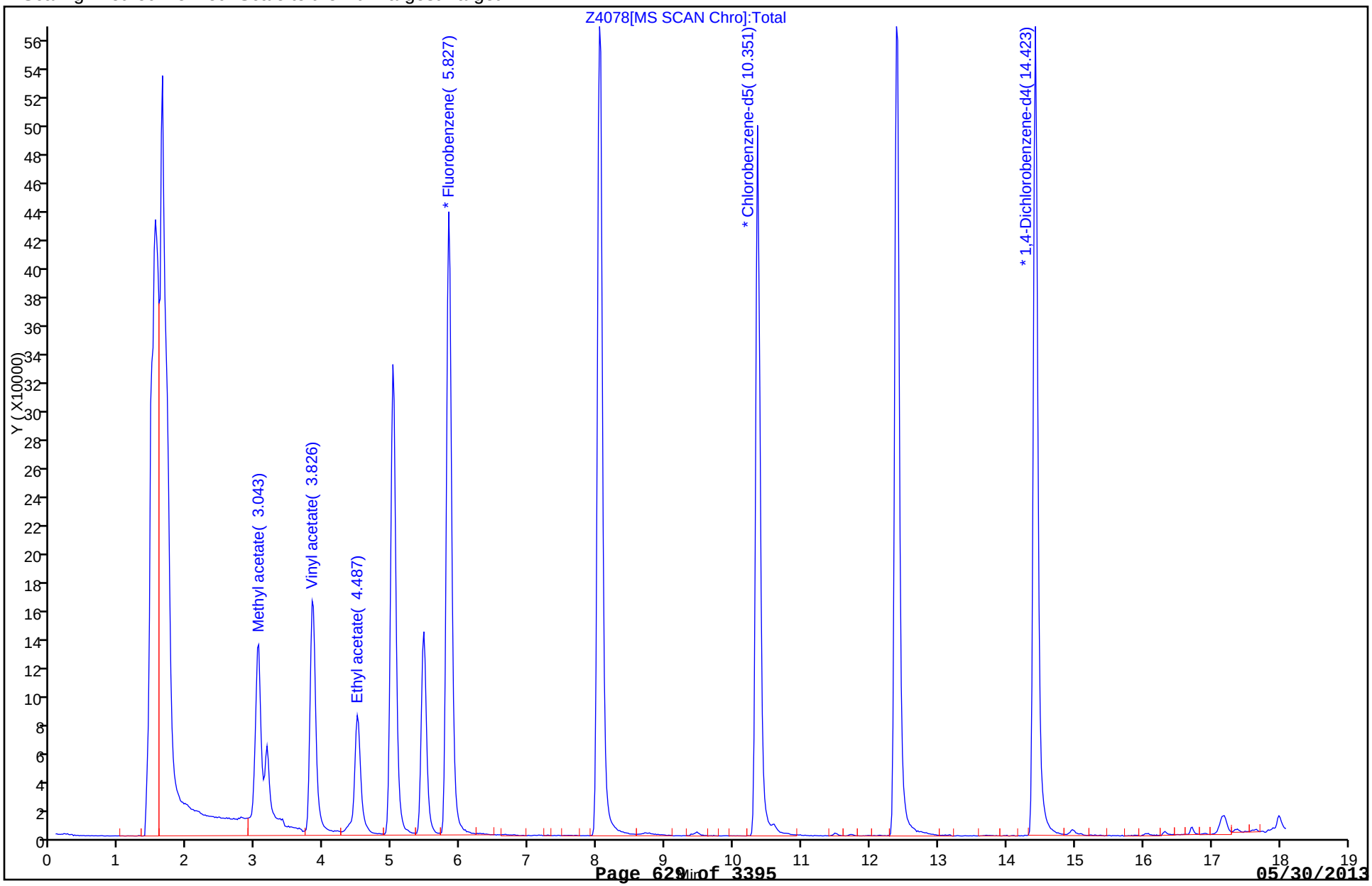
Report Date: 09-May-2013 06:27:45 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4078.D

| | | | |
|---|---|---|---|
| Injection Date: | 09-May-2013 03:28:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 52 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-173812/2 Calibration Date: 05/10/2013 19:28

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 19:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/08/2013 21:33

Lab File ID: Z4174.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.6659 | 0.5758 | | 8.65 | 10.0 | -13.5 | 20.0 |
| Chloromethane | Ave | 0.5277 | 0.4469 | 0.1000 | 8.47 | 10.0 | -15.3 | 20.0 |
| Vinyl chloride | Ave | 0.3796 | 0.3182 | | 8.38 | 10.0 | -16.2 | 20.0 |
| Bromomethane | Ave | 0.4254 | 0.3555 | | 8.36 | 10.0 | -16.4 | 20.0 |
| Chloroethane | Ave | 0.2645 | 0.2249 | | 8.50 | 10.0 | -15.0 | 20.0 |
| Trichlorofluoromethane | Ave | 0.9338 | 0.8109 | | 8.68 | 10.0 | -13.2 | 20.0 |
| Ethanol | Ave | 0.0009 | 0.0008 | | 468 | 500 | -6.3 | 50.0 |
| Acrolein | Ave | 0.0108 | 0.0112 | | 104 | 100 | 3.5 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.3649 | 0.3415 | | 9.36 | 10.0 | -6.4 | 20.0 |
| Acetone | Ave | 0.0304 | 0.0263 | | 34.6 | 40.0 | -13.4 | 20.0 |
| Iodomethane | Ave | 0.7482 | 0.7034 | | 9.40 | 10.0 | -6.0 | 35.0 |
| Methylene Chloride | Lin2 | | 0.3957 | | 10.6 | 10.0 | 6.3 | 20.0 |
| Acetonitrile | Ave | 0.0152 | 0.0146 | | 96.3 | 100 | -3.7 | 50.0 |
| 2-Methyl-2-propanol | Ave | 0.0126 | 0.0123 | | 196 | 200 | -2.1 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.4457 | 0.4223 | | 9.47 | 10.0 | -5.3 | 20.0 |
| Acrylonitrile | Ave | 0.0311 | 0.0294 | | 94.5 | 100 | -5.5 | 50.0 |
| 1,1-Dichloroethane | Ave | 0.7841 | 0.7141 | 0.1000 | 9.11 | 10.0 | -8.9 | 20.0 |
| Isopropyl ether | Ave | 0.3114 | 0.2979 | | 47.8 | 50.0 | -4.3 | 35.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.5719 | 0.5190 | | 9.08 | 10.0 | -9.2 | 35.0 |
| 2,2-Dichloropropane | Ave | 0.6734 | 0.6286 | | 9.33 | 10.0 | -6.7 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.4445 | 0.4287 | | 9.64 | 10.0 | -3.6 | 20.0 |
| 2-Butanone (MEK) | Ave | 0.0657 | 0.0585 | | 35.6 | 40.0 | -11.1 | 20.0 |
| Propionitrile | Ave | 0.0112 | 0.0107 | | 96.0 | 100 | -4.0 | 50.0 |
| Chlorobromomethane | Ave | 0.1887 | 0.1834 | | 9.72 | 10.0 | -2.8 | 20.0 |
| Methacrylonitrile | Ave | 0.0753 | 0.0708 | | 94.0 | 100 | -6.0 | 50.0 |
| Chloroform | Ave | 0.8058 | 0.7475 | | 9.28 | 10.0 | -7.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.8049 | 0.7401 | | 9.19 | 10.0 | -8.1 | 20.0 |
| Carbon tetrachloride | Ave | 0.7488 | 0.6892 | | 9.20 | 10.0 | -8.0 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.7015 | 0.6364 | | 9.07 | 10.0 | -9.3 | 20.0 |
| Isobutyl alcohol | Lin1 | | 0.0045 | | 193 | 200 | -3.5 | 50.0 |
| Benzene | Ave | 1.225 | 1.154 | | 9.42 | 10.0 | -5.8 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.3345 | 0.3125 | | 9.34 | 10.0 | -6.6 | 20.0 |
| Trichloroethene | Ave | 0.5741 | 0.5129 | | 8.93 | 10.0 | -10.7 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.4265 | 0.3950 | | 9.26 | 10.0 | -7.4 | 20.0 |
| Dibromomethane | Ave | 0.2687 | 0.2536 | | 9.44 | 10.0 | -5.6 | 20.0 |
| 1,4-Dioxane | Ave | 0.0013 | 0.0011 | | 423 | 500 | -15.4 | 50.0 |
| Dichlorobromomethane | Ave | 0.7033 | 0.6637 | | 9.44 | 10.0 | -5.6 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 2.738 | 2.693 | | 9.84 | 10.0 | -1.6 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.1926 | 0.1730 | | 35.9 | 40.0 | -10.2 | 20.0 |
| Toluene | Ave | 1.462 | 1.343 | | 9.18 | 10.0 | -8.2 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4223 | 0.3995 | | 9.46 | 10.0 | -5.4 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-173812/2 Calibration Date: 05/10/2013 19:28

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 19:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/08/2013 21:33

Lab File ID: Z4174.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | Ave | 0.2791 | 0.2648 | | 9.49 | 10.0 | -5.1 | 20.0 |
| Tetrachloroethene | Ave | 2.417 | 2.349 | | 9.72 | 10.0 | -2.8 | 20.0 |
| 1,3-Dichloropropane | Ave | 2.053 | 1.979 | | 9.64 | 10.0 | -3.6 | 20.0 |
| 2-Hexanone | Ave | 0.5796 | 0.5429 | | 37.5 | 40.0 | -6.3 | 20.0 |
| Chlorodibromomethane | Ave | 2.216 | 2.161 | | 9.75 | 10.0 | -2.5 | 20.0 |
| Ethylene Dibromide | Ave | 1.704 | 1.682 | | 9.87 | 10.0 | -1.3 | 20.0 |
| 1-Chlorohexane | Ave | 3.335 | 3.060 | | 9.02 | 9.83 | -8.3 | 35.0 |
| Chlorobenzene | Ave | 4.679 | 4.555 | 0.3000 | 9.73 | 10.0 | -2.7 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 2.171 | 2.117 | | 9.75 | 10.0 | -2.5 | 20.0 |
| Ethylbenzene | Ave | 2.382 | 2.257 | | 9.47 | 10.0 | -5.3 | 20.0 |
| m-Xylene & p-Xylene | Ave | 3.098 | 2.978 | | 19.2 | 20.0 | -3.9 | 20.0 |
| o-Xylene | Ave | 2.819 | 2.728 | | 9.68 | 10.0 | -3.2 | 20.0 |
| Styrene | Ave | 4.483 | 4.463 | | 9.96 | 10.0 | -0.4 | 20.0 |
| Bromoform | Ave | 1.456 | 1.473 | 0.1000 | 10.1 | 10.0 | 1.1 | 20.0 |
| Isopropylbenzene | Ave | 5.071 | 4.804 | | 9.47 | 10.0 | -5.3 | 20.0 |
| Cyclohexanone | Ave | 0.0262 | 0.0236 | | 359 | 400 | -10.1 | 50.0 |
| Bromobenzene | Ave | 1.275 | 1.235 | | 9.69 | 10.0 | -3.1 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9536 | 0.9198 | 0.3000 | 9.65 | 10.0 | -3.5 | 20.0 |
| N-Propylbenzene | Ave | 1.211 | 1.141 | | 9.43 | 10.0 | -5.7 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2209 | 0.2155 | | 9.76 | 10.0 | -2.4 | 20.0 |
| 2-Chlorotoluene | Ave | 1.018 | 0.9527 | | 9.35 | 10.0 | -6.5 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.842 | 3.660 | | 9.53 | 10.0 | -4.7 | 20.0 |
| 4-Chlorotoluene | Ave | 1.082 | 1.033 | | 9.54 | 10.0 | -4.6 | 20.0 |
| tert-Butylbenzene | Ave | 3.637 | 3.783 | | 10.4 | 10.0 | 4.0 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 3.745 | 3.556 | | 9.50 | 10.0 | -5.0 | 20.0 |
| sec-Butylbenzene | Ave | 1.068 | 0.9852 | | 9.22 | 10.0 | -7.8 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 2.214 | 2.074 | | 9.37 | 10.0 | -6.3 | 20.0 |
| 4-Isopropyltoluene | Ave | 4.624 | 4.286 | | 9.27 | 10.0 | -7.3 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 2.327 | 2.259 | | 9.71 | 10.0 | -2.9 | 20.0 |
| n-Butylbenzene | Ave | 4.908 | 4.456 | | 9.08 | 10.0 | -9.2 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.901 | 1.810 | | 9.52 | 10.0 | -4.8 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1853 | 0.1831 | | 9.88 | 10.0 | -1.2 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.538 | 1.498 | | 9.74 | 10.0 | -2.6 | 20.0 |
| Hexachlorobutadiene | Ave | 1.356 | 1.263 | | 9.31 | 10.0 | -6.9 | 20.0 |
| Naphthalene | Ave | 1.559 | 1.355 | | 8.69 | 10.0 | -13.1 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 1.231 | 1.130 | | 9.18 | 10.0 | -8.2 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4174.D
Lims ID: ccv Client ID:
Inject. Date: 10-May-2013 19:28:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 1
Lims Batch ID: 173812 Lims Sample ID: 2
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m
Last Update: 13-May-2013 16:34:31 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 10-May-2013 19:48:30

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.844 | 5.844 | 0.0 | 99 | 1494653 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.368 | 10.368 | 0.0 | 89 | 305938 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.440 | 14.440 | 0.0 | 96 | 557351 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.755 | 1.755 | 0.0 | 95 | 688454 | 8.65 | |
| 25 Chloromethane | 50 | 1.842 | 1.842 | 0.0 | 99 | 534353 | 8.47 | |
| 28 Vinyl chloride | 62 | 1.946 | 1.946 | 0.0 | 97 | 380522 | 8.38 | |
| 30 Bromomethane | 94 | 2.155 | 2.155 | 0.0 | 90 | 425040 | 8.36 | |
| 31 Chloroethane | 64 | 2.190 | 2.190 | 0.0 | 94 | 268966 | 8.50 | |
| 32 Dichlorofluoromethane | 67 | 2.364 | 2.364 | 0.0 | 97 | 1025782 | 10.2 | |
| 33 Trichlorofluoromethane | 101 | 2.399 | 2.399 | 0.0 | 98 | 969596 | 8.68 | |
| 35 Ethanol | 45 | 2.503 | 2.503 | 0.0 | 75 | 48723 | 468.3 | |
| 41 Acrolein | 56 | 2.677 | 2.677 | 0.0 | 92 | 133588 | 103.5 | |
| 43 1,1-Dichloroethene | 96 | 2.729 | 2.729 | 0.0 | 98 | 408320 | 9.36 | |
| 42 Acetone | 43 | 2.799 | 2.799 | 0.0 | 90 | 125917 | 34.6 | |
| 45 Iodomethane | 142 | 2.886 | 2.886 | 0.0 | 99 | 841006 | 9.40 | |
| 50 Methylene Chloride | 84 | 3.164 | 3.164 | 0.0 | 96 | 473147 | 10.6 | |
| 47 Acetonitrile | 41 | 3.182 | 3.182 | 0.0 | 99 | 174954 | 96.3 | |
| 51 2-Methyl-2-propanol | 59 | 3.251 | 3.251 | 0.0 | 94 | 295198 | 195.9 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.373 | 3.373 | 0.0 | 96 | 504933 | 9.47 | |
| 52 Acrylonitrile | 53 | 3.460 | 3.460 | 0.0 | 97 | 351429 | 94.5 | |
| 58 Isopropyl ether | 87 | 3.825 | 3.825 | 0.0 | 98 | 1780937 | 47.8 | |
| 56 1,1-Dichloroethane | 63 | 3.825 | 3.825 | 0.0 | 96 | 853843 | 9.11 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.878 | 3.878 | 0.0 | 89 | 620617 | 9.08 | |
| 63 2,2-Dichloropropane | 77 | 4.452 | 4.452 | 0.0 | 78 | 751638 | 9.33 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.469 | 4.469 | 0.0 | 86 | 512574 | 9.64 | |
| 61 2-Butanone (MEK) | 43 | 4.487 | 4.487 | 0.0 | 98 | 279611 | 35.6 | |
| 64 Propionitrile | 54 | 4.661 | 4.661 | 0.0 | 76 | 128223 | 96.0 | |
| 68 Chlorobromomethane | 128 | 4.748 | 4.748 | 0.0 | 89 | 219250 | 9.72 | |
| 66 Methacrylonitrile | 41 | 4.782 | 4.782 | 0.0 | 95 | 846459 | 94.0 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.817 | 4.817 | 0.0 | 95 | 893802 | 9.28 | |
| 71 1,1,1-Trichloroethane | 97 | 5.026 | 5.026 | 0.0 | 80 | 884924 | 9.19 | |
| 74 Carbon tetrachloride | 117 | 5.183 | 5.183 | 0.0 | 87 | 824036 | 9.20 | |
| 73 1,1-Dichloropropene | 75 | 5.200 | 5.200 | 0.0 | 96 | 760908 | 9.07 | |
| 75 Isobutyl alcohol | 41 | 5.409 | 5.409 | 0.0 | 82 | 107444 | 193.1 | |
| 77 Benzene | 78 | 5.461 | 5.461 | 0.0 | 97 | 1379834 | 9.42 | |
| 76 1,2-Dichloroethane | 62 | 5.566 | 5.566 | 0.0 | 95 | 373708 | 9.34 | |
| 78 n-Butanol | 56 | 6.314 | 6.314 | 0.0 | 31 | 119776 | 272.3 | |
| 80 Trichloroethene | 95 | 6.314 | 6.314 | 0.0 | 97 | 613259 | 8.93 | |
| 83 1,2-Dichloropropane | 63 | 6.679 | 6.679 | 0.0 | 94 | 472316 | 9.26 | |
| 85 Dibromomethane | 93 | 6.836 | 6.836 | 0.0 | 92 | 303288 | 9.44 | |
| 87 1,4-Dioxane | 88 | 6.871 | 6.871 | 0.0 | 71 | 67392 | 422.8 | |
| 88 Dichlorobromomethane | 83 | 7.045 | 7.045 | 0.0 | 99 | 793560 | 9.44 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.723 | 7.723 | 0.0 | 91 | 659069 | 9.84 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.984 | 7.984 | 0.0 | 95 | 827460 | 35.9 | |
| 93 Toluene | 91 | 8.141 | 8.141 | 0.0 | 97 | 1605497 | 9.18 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.611 | 8.611 | 0.0 | 95 | 477648 | 9.46 | |
| 96 1,1,2-Trichloroethane | 97 | 8.889 | 8.889 | 0.0 | 92 | 316609 | 9.49 | |
| 97 Tetrachloroethene | 164 | 8.941 | 8.941 | 0.0 | 98 | 574847 | 9.72 | |
| 98 1,3-Dichloropropane | 76 | 9.150 | 9.150 | 0.0 | 90 | 484462 | 9.64 | |
| 99 2-Hexanone | 43 | 9.289 | 9.289 | 0.0 | 97 | 531452 | 37.5 | |
| 100 Chlorodibromomethane | 129 | 9.446 | 9.446 | 0.0 | 90 | 528912 | 9.75 | |
| 102 Ethylene Dibromide | 107 | 9.637 | 9.637 | 0.0 | 98 | 411616 | 9.87 | |
| 104 1-Chlorohexane | 91 | 10.403 | 10.403 | 0.0 | 96 | 736516 | 9.02 | |
| 103 Chlorobenzene | 112 | 10.420 | 10.420 | 0.0 | 91 | 1114876 | 9.73 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.577 | 10.577 | 0.0 | 96 | 518092 | 9.75 | |
| 106 Ethylbenzene | 106 | 10.577 | 10.577 | 0.0 | 99 | 552314 | 9.47 | |
| 107 m-Xylene & p-Xylene | 106 | 10.786 | 10.786 | 0.0 | 0 | 1457643 | 19.2 | |
| 108 o-Xylene | 106 | 11.464 | 11.464 | 0.0 | 95 | 667644 | 9.68 | |
| 109 Styrene | 104 | 11.499 | 11.499 | 0.0 | 94 | 1092277 | 9.96 | |
| 110 Bromoform | 173 | 11.812 | 11.812 | 0.0 | 95 | 360396 | 10.1 | |
| 111 Isopropylbenzene | 105 | 12.091 | 12.091 | 0.0 | 95 | 2142206 | 9.47 | |
| 112 Cyclohexanone | 55 | 12.334 | 12.334 | 0.0 | 92 | 230713 | 359.5 | |
| 114 Bromobenzene | 156 | 12.613 | 12.613 | 0.0 | 93 | 550772 | 9.69 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.752 | 12.752 | 0.0 | 94 | 410110 | 9.65 | |
| 118 N-Propylbenzene | 120 | 12.804 | 12.804 | 0.0 | 98 | 508966 | 9.43 | |
| 116 1,2,3-Trichloropropane | 110 | 12.822 | 12.822 | 0.0 | 49 | 96105 | 9.76 | |
| 119 2-Chlorotoluene | 126 | 12.961 | 12.961 | 0.0 | 95 | 424768 | 9.35 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.152 | 13.152 | 0.0 | 88 | 1632094 | 9.53 | |
| 120 4-Chlorotoluene | 126 | 13.187 | 13.187 | 0.0 | 98 | 460381 | 9.54 | |
| 122 tert-Butylbenzene | 119 | 13.692 | 13.692 | 0.0 | 91 | 1686883 | 10.4 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.813 | 13.813 | 0.0 | 86 | 1585765 | 9.50 | |
| 124 sec-Butylbenzene | 134 | 14.092 | 14.092 | 0.0 | 95 | 439264 | 9.22 | |
| 125 1,3-Dichlorobenzene | 146 | 14.301 | 14.301 | 0.0 | 90 | 924851 | 9.37 | |
| 126 4-Isopropyltoluene | 119 | 14.370 | 14.370 | 0.0 | 96 | 1911168 | 9.27 | |
| 127 1,4-Dichlorobenzene | 146 | 14.475 | 14.475 | 0.0 | 87 | 1007240 | 9.71 | |
| 130 n-Butylbenzene | 91 | 15.101 | 15.101 | 0.0 | 95 | 1986654 | 9.08 | |
| 129 1,2-Dichlorobenzene | 146 | 15.136 | 15.136 | 0.0 | 95 | 807001 | 9.52 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.441 | 16.441 | 0.0 | 86 | 81637 | 9.88 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.363 | 17.363 | 0.0 | 94 | 667779 | 9.74 | |
| 133 Hexachlorobutadiene | 225 | 17.502 | 17.502 | 0.0 | 95 | 563042 | 9.31 | |
| 134 Naphthalene | 128 | 17.607 | 17.607 | 0.0 | 96 | 604080 | 8.69 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.833 | 17.833 | 0.0 | 95 | 503889 | 9.18 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.1 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 28.9 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 19.1 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 19.3 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 38.6 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 28.9 | |
| S 138 Total BTEX | 1 | | | | 0 | | 57.0 | |

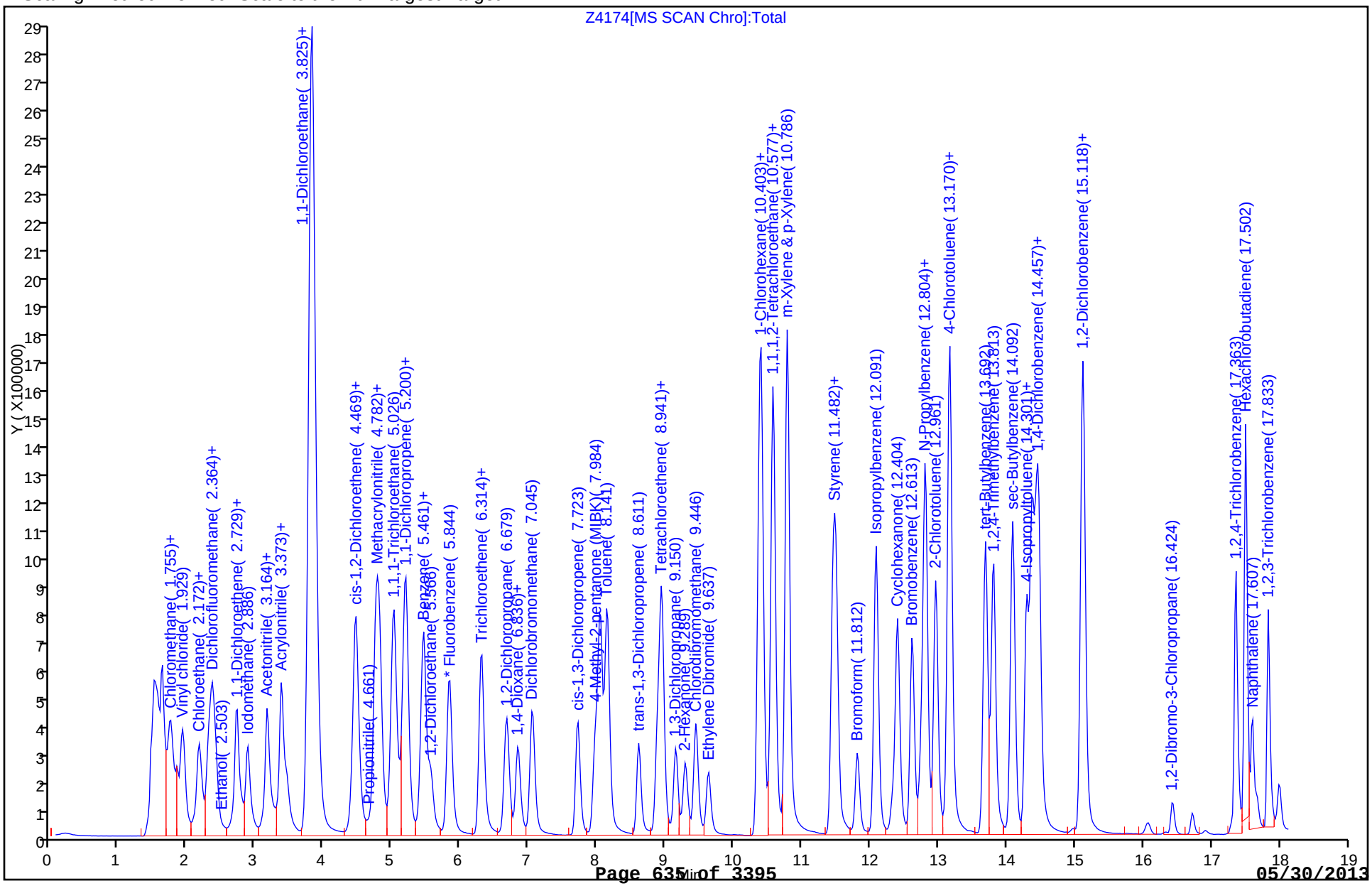
Report Date: 13-May-2013 16:34:32 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4174.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 19:28:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 2 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-173812/2 Calibration Date: 05/10/2013 19:28

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 22:40

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 00:31

Lab File ID: Z4174.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.8435 | 0.8579 | | 10.2 | 10.0 | 1.7 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4174.D
Lims ID: ccv Client ID:
Inject. Date: 10-May-2013 19:28:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 1
Lims Batch ID: 173812 Lims Sample ID: 2
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m
Last Update: 13-May-2013 16:34:31 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 10-May-2013 19:48:30

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.844 | 5.844 | 0.0 | 99 | 1494653 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.368 | 10.368 | 0.0 | 89 | 305938 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.440 | 14.440 | 0.0 | 96 | 557351 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.755 | 1.755 | 0.0 | 95 | 688454 | 8.65 | |
| 25 Chloromethane | 50 | 1.842 | 1.842 | 0.0 | 99 | 534353 | 8.47 | |
| 28 Vinyl chloride | 62 | 1.946 | 1.946 | 0.0 | 97 | 380522 | 8.38 | |
| 30 Bromomethane | 94 | 2.155 | 2.155 | 0.0 | 90 | 425040 | 8.36 | |
| 31 Chloroethane | 64 | 2.190 | 2.190 | 0.0 | 94 | 268966 | 8.50 | |
| 32 Dichlorofluoromethane | 67 | 2.364 | 2.364 | 0.0 | 97 | 1025782 | 10.2 | |
| 33 Trichlorofluoromethane | 101 | 2.399 | 2.399 | 0.0 | 98 | 969596 | 8.68 | |
| 35 Ethanol | 45 | 2.503 | 2.503 | 0.0 | 75 | 48723 | 468.3 | |
| 41 Acrolein | 56 | 2.677 | 2.677 | 0.0 | 92 | 133588 | 103.5 | |
| 43 1,1-Dichloroethene | 96 | 2.729 | 2.729 | 0.0 | 98 | 408320 | 9.36 | |
| 42 Acetone | 43 | 2.799 | 2.799 | 0.0 | 90 | 125917 | 34.6 | |
| 45 Iodomethane | 142 | 2.886 | 2.886 | 0.0 | 99 | 841006 | 9.40 | |
| 50 Methylene Chloride | 84 | 3.164 | 3.164 | 0.0 | 96 | 473147 | 10.6 | |
| 47 Acetonitrile | 41 | 3.182 | 3.182 | 0.0 | 99 | 174954 | 96.3 | |
| 51 2-Methyl-2-propanol | 59 | 3.251 | 3.251 | 0.0 | 94 | 295198 | 195.9 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.373 | 3.373 | 0.0 | 96 | 504933 | 9.47 | |
| 52 Acrylonitrile | 53 | 3.460 | 3.460 | 0.0 | 97 | 351429 | 94.5 | |
| 58 Isopropyl ether | 87 | 3.825 | 3.825 | 0.0 | 98 | 1780937 | 47.8 | |
| 56 1,1-Dichloroethane | 63 | 3.825 | 3.825 | 0.0 | 96 | 853843 | 9.11 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.878 | 3.878 | 0.0 | 89 | 620617 | 9.08 | |
| 63 2,2-Dichloropropane | 77 | 4.452 | 4.452 | 0.0 | 78 | 751638 | 9.33 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.469 | 4.469 | 0.0 | 86 | 512574 | 9.64 | |
| 61 2-Butanone (MEK) | 43 | 4.487 | 4.487 | 0.0 | 98 | 279611 | 35.6 | |
| 64 Propionitrile | 54 | 4.661 | 4.661 | 0.0 | 76 | 128223 | 96.0 | |
| 68 Chlorobromomethane | 128 | 4.748 | 4.748 | 0.0 | 89 | 219250 | 9.72 | |
| 66 Methacrylonitrile | 41 | 4.782 | 4.782 | 0.0 | 95 | 846459 | 94.0 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.817 | 4.817 | 0.0 | 95 | 893802 | 9.28 | |
| 71 1,1,1-Trichloroethane | 97 | 5.026 | 5.026 | 0.0 | 80 | 884924 | 9.19 | |
| 74 Carbon tetrachloride | 117 | 5.183 | 5.183 | 0.0 | 87 | 824036 | 9.20 | |
| 73 1,1-Dichloropropene | 75 | 5.200 | 5.200 | 0.0 | 96 | 760908 | 9.07 | |
| 75 Isobutyl alcohol | 41 | 5.409 | 5.409 | 0.0 | 82 | 107444 | 193.1 | |
| 77 Benzene | 78 | 5.461 | 5.461 | 0.0 | 97 | 1379834 | 9.42 | |
| 76 1,2-Dichloroethane | 62 | 5.566 | 5.566 | 0.0 | 95 | 373708 | 9.34 | |
| 78 n-Butanol | 56 | 6.314 | 6.314 | 0.0 | 31 | 119776 | 272.3 | |
| 80 Trichloroethene | 95 | 6.314 | 6.314 | 0.0 | 97 | 613259 | 8.93 | |
| 83 1,2-Dichloropropane | 63 | 6.679 | 6.679 | 0.0 | 94 | 472316 | 9.26 | |
| 85 Dibromomethane | 93 | 6.836 | 6.836 | 0.0 | 92 | 303288 | 9.44 | |
| 87 1,4-Dioxane | 88 | 6.871 | 6.871 | 0.0 | 71 | 67392 | 422.8 | |
| 88 Dichlorobromomethane | 83 | 7.045 | 7.045 | 0.0 | 99 | 793560 | 9.44 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.723 | 7.723 | 0.0 | 91 | 659069 | 9.84 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.984 | 7.984 | 0.0 | 95 | 827460 | 35.9 | |
| 93 Toluene | 91 | 8.141 | 8.141 | 0.0 | 97 | 1605497 | 9.18 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.611 | 8.611 | 0.0 | 95 | 477648 | 9.46 | |
| 96 1,1,2-Trichloroethane | 97 | 8.889 | 8.889 | 0.0 | 92 | 316609 | 9.49 | |
| 97 Tetrachloroethene | 164 | 8.941 | 8.941 | 0.0 | 98 | 574847 | 9.72 | |
| 98 1,3-Dichloropropane | 76 | 9.150 | 9.150 | 0.0 | 90 | 484462 | 9.64 | |
| 99 2-Hexanone | 43 | 9.289 | 9.289 | 0.0 | 97 | 531452 | 37.5 | |
| 100 Chlorodibromomethane | 129 | 9.446 | 9.446 | 0.0 | 90 | 528912 | 9.75 | |
| 102 Ethylene Dibromide | 107 | 9.637 | 9.637 | 0.0 | 98 | 411616 | 9.87 | |
| 104 1-Chlorohexane | 91 | 10.403 | 10.403 | 0.0 | 96 | 736516 | 9.02 | |
| 103 Chlorobenzene | 112 | 10.420 | 10.420 | 0.0 | 91 | 1114876 | 9.73 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.577 | 10.577 | 0.0 | 96 | 518092 | 9.75 | |
| 106 Ethylbenzene | 106 | 10.577 | 10.577 | 0.0 | 99 | 552314 | 9.47 | |
| 107 m-Xylene & p-Xylene | 106 | 10.786 | 10.786 | 0.0 | 0 | 1457643 | 19.2 | |
| 108 o-Xylene | 106 | 11.464 | 11.464 | 0.0 | 95 | 667644 | 9.68 | |
| 109 Styrene | 104 | 11.499 | 11.499 | 0.0 | 94 | 1092277 | 9.96 | |
| 110 Bromoform | 173 | 11.812 | 11.812 | 0.0 | 95 | 360396 | 10.1 | |
| 111 Isopropylbenzene | 105 | 12.091 | 12.091 | 0.0 | 95 | 2142206 | 9.47 | |
| 112 Cyclohexanone | 55 | 12.334 | 12.334 | 0.0 | 92 | 230713 | 359.5 | |
| 114 Bromobenzene | 156 | 12.613 | 12.613 | 0.0 | 93 | 550772 | 9.69 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.752 | 12.752 | 0.0 | 94 | 410110 | 9.65 | |
| 118 N-Propylbenzene | 120 | 12.804 | 12.804 | 0.0 | 98 | 508966 | 9.43 | |
| 116 1,2,3-Trichloropropane | 110 | 12.822 | 12.822 | 0.0 | 49 | 96105 | 9.76 | |
| 119 2-Chlorotoluene | 126 | 12.961 | 12.961 | 0.0 | 95 | 424768 | 9.35 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.152 | 13.152 | 0.0 | 88 | 1632094 | 9.53 | |
| 120 4-Chlorotoluene | 126 | 13.187 | 13.187 | 0.0 | 98 | 460381 | 9.54 | |
| 122 tert-Butylbenzene | 119 | 13.692 | 13.692 | 0.0 | 91 | 1686883 | 10.4 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.813 | 13.813 | 0.0 | 86 | 1585765 | 9.50 | |
| 124 sec-Butylbenzene | 134 | 14.092 | 14.092 | 0.0 | 95 | 439264 | 9.22 | |
| 125 1,3-Dichlorobenzene | 146 | 14.301 | 14.301 | 0.0 | 90 | 924851 | 9.37 | |
| 126 4-Isopropyltoluene | 119 | 14.370 | 14.370 | 0.0 | 96 | 1911168 | 9.27 | |
| 127 1,4-Dichlorobenzene | 146 | 14.475 | 14.475 | 0.0 | 87 | 1007240 | 9.71 | |
| 130 n-Butylbenzene | 91 | 15.101 | 15.101 | 0.0 | 95 | 1986654 | 9.08 | |
| 129 1,2-Dichlorobenzene | 146 | 15.136 | 15.136 | 0.0 | 95 | 807001 | 9.52 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.441 | 16.441 | 0.0 | 86 | 81637 | 9.88 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.363 | 17.363 | 0.0 | 94 | 667779 | 9.74 | |
| 133 Hexachlorobutadiene | 225 | 17.502 | 17.502 | 0.0 | 95 | 563042 | 9.31 | |
| 134 Naphthalene | 128 | 17.607 | 17.607 | 0.0 | 96 | 604080 | 8.69 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.833 | 17.833 | 0.0 | 95 | 503889 | 9.18 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.1 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 28.9 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 19.1 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 19.3 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 38.6 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 28.9 | |
| S 138 Total BTEX | 1 | | | | 0 | | 57.0 | |

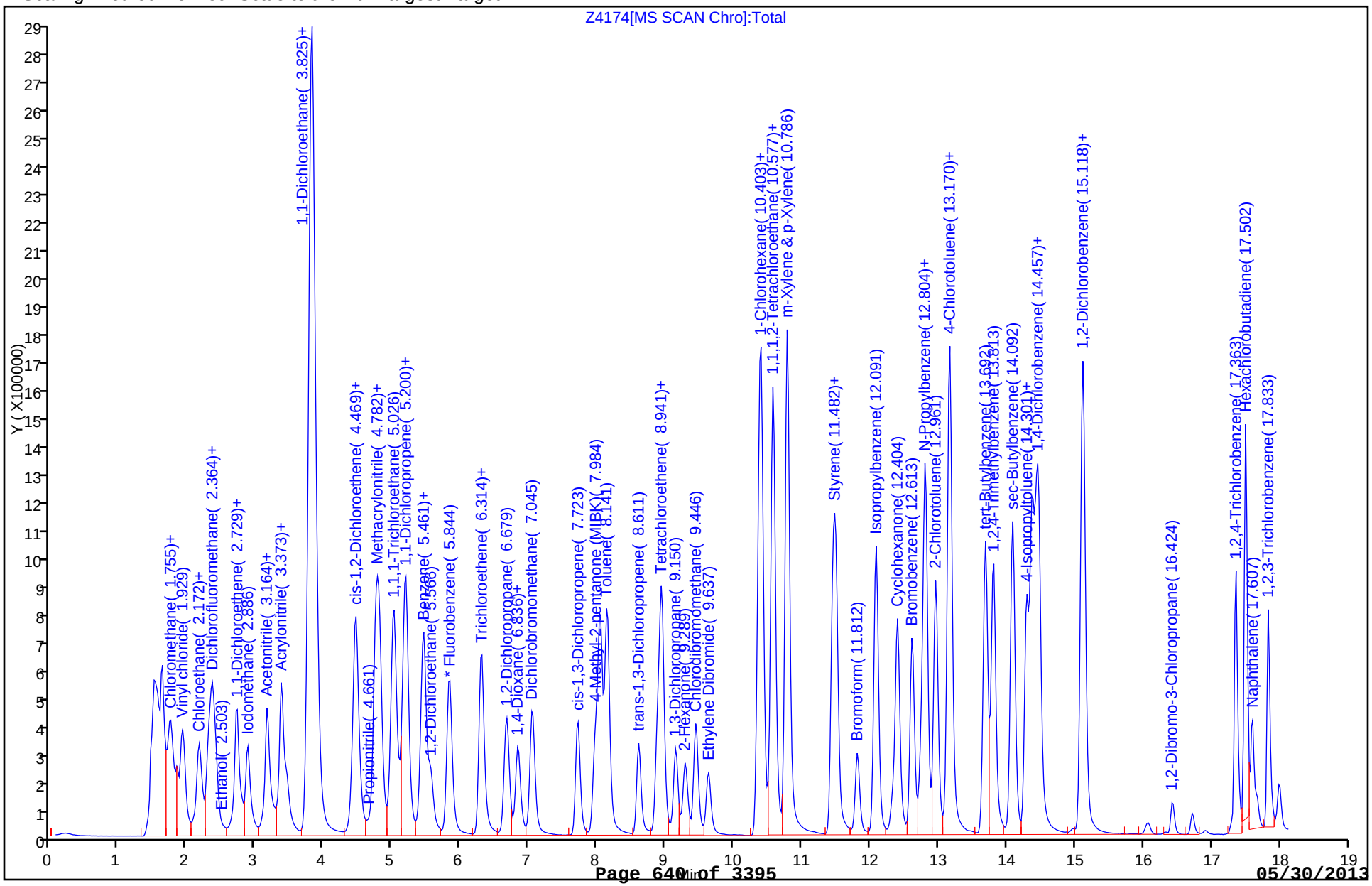
Report Date: 13-May-2013 16:34:32 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4174.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 19:28:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 2 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-173812/3 Calibration Date: 05/10/2013 19:50

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 22:40

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 00:31

Lab File ID: Z4175.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.8435 | 0.8754 | | 10.4 | 10.0 | 3.8 | 50.0 |
| Ethyl ether | Ave | 0.2211 | 0.1840 | | 8.32 | 10.0 | -16.8 | 35.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.9313 | 0.9798 | | 10.5 | 10.0 | 5.2 | 50.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.4905 | 0.5361 | | 10.9 | 10.0 | 9.3 | 50.0 |
| Carbon disulfide | Ave | 1.202 | 1.335 | | 11.1 | 10.0 | 11.1 | 20.0 |
| Allyl chloride | Ave | 0.4982 | 0.4998 | | 10.0 | 10.0 | 0.3 | 35.0 |
| Methyl tert-butyl ether | Ave | 0.5688 | 0.5827 | | 10.2 | 10.0 | 2.5 | 20.0 |
| Hexane | Ave | 2.550 | 2.765 | | 10.8 | 10.0 | 8.5 | 20.0 |
| Tert-butyl ethyl ether | Ave | 1.000 | 0.9850 | | 49.2 | 50.0 | -1.5 | 35.0 |
| 2-Butanol | Ave | 0.0101 | 0.0102 | | 367 | 364 | 0.7 | 50.0 |
| Tetrahydrofuran | Ave | 0.0369 | 0.0345 | | 18.7 | 20.0 | -6.4 | 50.0 |
| Cyclohexane | Ave | 0.6162 | 0.6186 | | 10.0 | 10.0 | 0.4 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.7674 | 0.7743 | | 50.4 | 50.0 | 0.9 | 35.0 |
| Methylcyclohexane | Ave | 0.5814 | 0.5848 | | 10.1 | 10.0 | 0.6 | 35.0 |
| 2-Pentanone | Ave | 0.1332 | 0.1471 | | 44.2 | 40.0 | 10.4 | 50.0 |
| Methyl methacrylate | Ave | 0.0543 | 0.0576 | | 21.2 | 20.0 | 6.2 | 35.0 |
| 2-Nitropropane | Lin2 | | 0.0343 | | 8.59 | 10.0 | -14.1 | 50.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1290 | 0.1126 | | 8.73 | 10.0 | -12.7 | 50.0 |
| Ethyl methacrylate | Ave | 1.303 | 1.338 | | 20.5 | 20.0 | 2.7 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0806 | 0.0791 | | 9.81 | 10.0 | -1.9 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1045 | 0.1002 | | 9.58 | 10.0 | -4.2 | 50.0 |
| Isopropyl alcohol | Ave | 0.0073 | | | 32.0 | 200 | | |
| Dibromofluoromethane (Surr) | Ave | 0.6553 | 0.6326 | | 8.69 | 9.00 | -3.5 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2959 | 0.2729 | | 8.30 | 9.00 | -7.8 | 20.0 |
| Toluene-d8 (Surr) | Ave | 6.015 | 6.008 | | 8.99 | 9.00 | -0.1 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 1.953 | 1.869 | | 8.62 | 9.00 | -4.3 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4175.D
Lims ID: ccv Client ID:
Inject. Date: 10-May-2013 19:50:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 2
Lims Batch ID: 173812 Lims Sample ID: 3
Sublist: chrom-AQ_VMSZ_8260*sub24
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m
Last Update: 13-May-2013 16:34:32 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 10-May-2013 20:39:31

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.844 | 5.844 | 0.0 | 99 | 1476527 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.369 | 10.369 | 0.0 | 88 | 312401 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.440 | 14.440 | 0.0 | 98 | 558525 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.027 | 5.027 | 0.0 | 82 | 672561 | 8.69 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.462 | 5.462 | 0.0 | 94 | 290118 | 8.30 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.054 | 8.054 | 0.0 | 93 | 1351303 | 8.99 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.404 | 12.404 | 0.0 | 87 | 751744 | 8.62 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.842 | 1.842 | 0.0 | 93 | 957376 | 15.4 | |
| 29 Ethylene oxide | 43 | 2.138 | 2.138 | 0.0 | 99 | 878395 | 1398.1 | |
| 32 Dichlorofluoromethane | 67 | 2.364 | 2.364 | 0.0 | 97 | 1034001 | 10.4 | |
| 37 Isopropyl alcohol | 45 | | 2.504 | | | | | 3 |
| 36 Ethyl ether | 59 | 2.521 | 2.521 | 0.0 | 91 | 217338 | 8.32 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.573 | 2.573 | 0.0 | 97 | 743665 | 10.4 | |
| 40 Propene oxide | 58 | 2.608 | 2.608 | 0.0 | 96 | 1374178 | 520.2 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.608 | 2.608 | 0.0 | 74 | 1157401 | 10.5 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.747 | 2.747 | 0.0 | 94 | 633200 | 10.9 | |
| 46 Carbon disulfide | 76 | 2.921 | 2.921 | 0.0 | 99 | 1576838 | 11.1 | |
| 48 3-Chloro-1-propene | 41 | 3.043 | 3.043 | 0.0 | 90 | 590359 | 10.0 | |
| 54 Methyl tert-butyl ether | 73 | 3.374 | 3.374 | 0.0 | 89 | 688328 | 10.2 | |
| 55 Hexane | 57 | 3.565 | 3.565 | 0.0 | 95 | 691036 | 10.8 | |
| 60 Tert-butyl ethyl ether | 59 | 4.209 | 4.209 | 0.0 | 98 | 5817373 | 49.2 | |
| 67 sec-Butyl Alcohol | 45 | 4.679 | 4.679 | 0.0 | 99 | 439076 | 366.8 | |
| 70 Tetrahydrofuran | 42 | 4.766 | 4.766 | 0.0 | 90 | 81550 | 18.7 | |
| 72 Cyclohexane | 56 | 5.009 | 5.009 | 0.0 | 90 | 730745 | 10.0 | |
| 79 Tert-amyl methyl ether | 73 | 5.583 | 5.583 | 0.0 | 97 | 4572987 | 50.4 | |
| 84 Methylcyclohexane | 55 | 6.488 | 6.488 | 0.0 | 91 | 690820 | 10.1 | |
| 82 2-Pentanone | 43 | 6.627 | 6.627 | 0.0 | 98 | 694849 | 44.2 | |
| 86 Methyl methacrylate | 100 | 6.819 | 6.819 | 0.0 | 91 | 136109 | 21.2 | |
| 89 2-Nitropropane | 41 | 7.498 | 7.498 | 0.0 | 97 | 40501 | 8.59 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.515 | 7.515 | 0.0 | 88 | 133008 | 8.73 | |
| 95 Ethyl methacrylate | 69 | 8.698 | 8.698 | 0.0 | 91 | 669007 | 20.5 | |
| 101 Tetrahydrothiophene | 60 | 9.377 | 9.377 | 0.0 | 89 | 39693 | 8.70 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.335 | 12.335 | 0.0 | 0 | 35334 | 9.81 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.874 | 12.874 | 0.0 | 94 | 44756 | 9.58 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.545 | 14.545 | 0.0 | 98 | 1459760 | 10.1 | |

QC Flag Legend

Processing Flags
3 - Failed RT Window Test

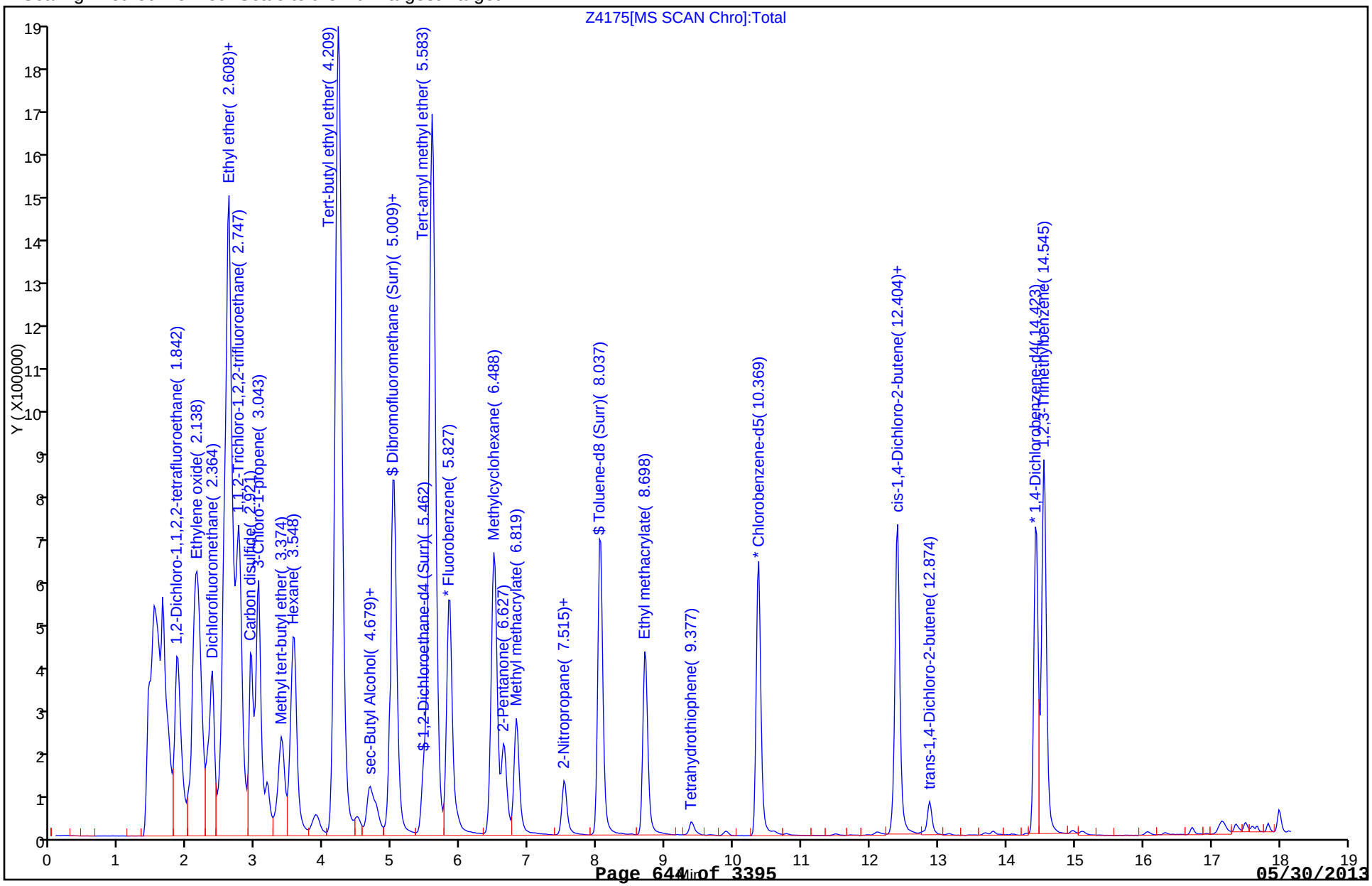
Report Date: 13-May-2013 16:34:32 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4175.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 19:50:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 3 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-173812/4 Calibration Date: 05/10/2013 20:12

Instrument ID: VMS_Z Calib Start Date: 05/09/2013 00:53

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 02:44

Lab File ID: Z4176.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acetate | Ave | 0.1068 | 0.0969 | | 45.4 | 50.0 | -9.3 | 50.0 |
| Vinyl acetate | Ave | 0.4423 | 0.3969 | | 17.9 | 20.0 | -10.3 | 50.0 |
| Ethyl acetate | Ave | 0.1681 | 0.1447 | | 17.2 | 20.0 | -13.9 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4176.D
Lims ID: ccv
Client ID:
Inject. Date: 10-May-2013 20:12:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: tinkhams
Instrument ID: VMS_Z
Purge Vol: 20.000 mL
ALS Bottle#: 3
Lims Batch ID: 173812
Lims Sample ID: 4
Sublist: chrom-AQ_VMSZ_8260*sub28
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m
Last Update: 13-May-2013 16:34:33
Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624 (75.53)
Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams
Date: 10-May-2013 20:44:46

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.824 | 5.824 | 0.0 | 99 | 1432800 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.366 | 10.366 | 0.0 | 89 | 306700 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.437 | 0.0 | 97 | 540154 | 12.5 | |
| 49 Methyl acetate | 43 | 3.040 | 3.040 | 0.0 | 99 | 555394 | 45.4 | |
| 57 Vinyl acetate | 43 | 3.840 | 3.840 | 0.0 | 97 | 909848 | 17.9 | |
| 65 Ethyl acetate | 43 | 4.484 | 4.484 | 0.0 | 99 | 331634 | 17.2 | |

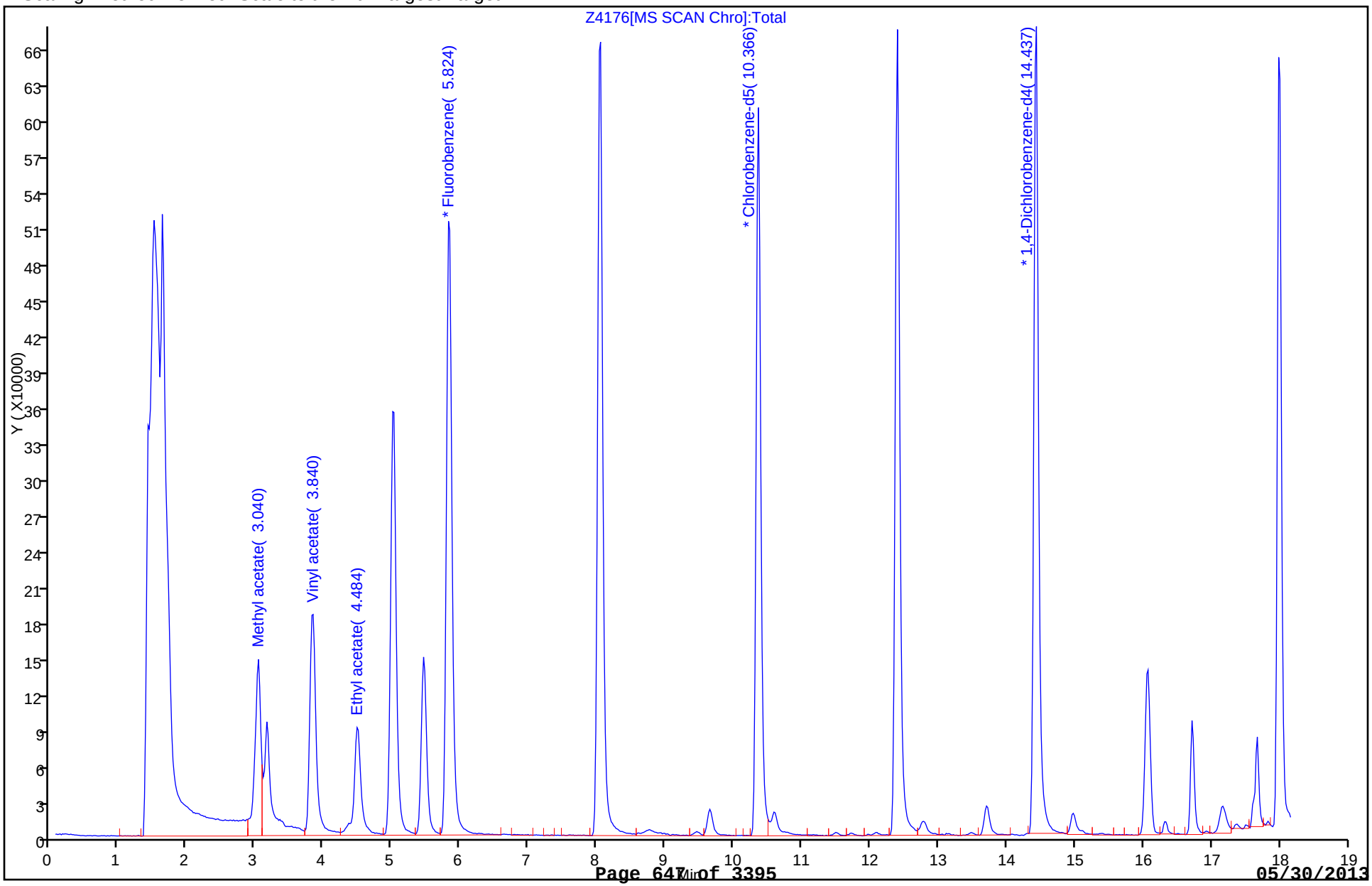
Report Date: 13-May-2013 16:34:33 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4176.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 20:12:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 4 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174063/2 Calibration Date: 05/13/2013 21:52

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 19:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/08/2013 21:33

Lab File ID: Z4280.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.6659 | 0.6659 | | 10.0 | 10.0 | -0.0 | 20.0 |
| Chloromethane | Ave | 0.5277 | 0.5283 | 0.1000 | 10.0 | 10.0 | 0.1 | 20.0 |
| Vinyl chloride | Ave | 0.3796 | 0.3784 | | 9.97 | 10.0 | -0.3 | 20.0 |
| Bromomethane | Ave | 0.4254 | 0.4068 | | 9.56 | 10.0 | -4.4 | 20.0 |
| Chloroethane | Ave | 0.2645 | 0.2538 | | 9.59 | 10.0 | -4.1 | 20.0 |
| Trichlorofluoromethane | Ave | 0.9338 | 0.9115 | | 9.76 | 10.0 | -2.4 | 20.0 |
| Ethanol | Ave | 0.0009 | 0.0011 | | 623 | 500 | 24.5 | 50.0 |
| Acrolein | Ave | 0.0108 | 0.0126 | | 117 | 100 | 16.7 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.3649 | 0.3926 | | 10.8 | 10.0 | 7.6 | 20.0 |
| Acetone | Ave | 0.0304 | 0.0320 | | 42.1 | 40.0 | 5.3 | 20.0 |
| Iodomethane | Ave | 0.7482 | 0.7850 | | 10.5 | 10.0 | 4.9 | 35.0 |
| Acetonitrile | Ave | 0.0152 | 0.0173 | | 114 | 100 | 13.8 | 50.0 |
| Methylene Chloride | Lin2 | | 0.4098 | | 11.1 | 10.0 | 10.7 | 20.0 |
| 2-Methyl-2-propanol | Ave | 0.0126 | 0.0153 | | 243 | 200 | 21.5 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.4457 | 0.4690 | | 10.5 | 10.0 | 5.2 | 20.0 |
| Acrylonitrile | Ave | 0.0311 | 0.0335 | | 108 | 100 | 7.8 | 50.0 |
| Isopropyl ether | Ave | 0.3114 | 0.3347 | | 53.8 | 50.0 | 7.5 | 35.0 |
| 1,1-Dichloroethane | Ave | 0.7841 | 0.8026 | 0.1000 | 10.2 | 10.0 | 2.4 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.5719 | 0.5981 | | 10.5 | 10.0 | 4.6 | 35.0 |
| 2,2-Dichloropropane | Ave | 0.6734 | 0.7078 | | 10.5 | 10.0 | 5.1 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.4445 | 0.4772 | | 10.7 | 10.0 | 7.4 | 20.0 |
| 2-Butanone (MEK) | Ave | 0.0657 | 0.0649 | | 39.5 | 40.0 | -1.3 | 20.0 |
| Propionitrile | Ave | 0.0112 | 0.0128 | | 115 | 100 | 14.6 | 50.0 |
| Chlorobromomethane | Ave | 0.1887 | 0.2001 | | 10.6 | 10.0 | 6.1 | 20.0 |
| Methacrylonitrile | Ave | 0.0753 | 0.0841 | | 112 | 100 | 11.7 | 50.0 |
| Chloroform | Ave | 0.8058 | 0.8296 | | 10.3 | 10.0 | 3.0 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.8049 | 0.8333 | | 10.4 | 10.0 | 3.5 | 20.0 |
| Carbon tetrachloride | Ave | 0.7488 | 0.7605 | | 10.2 | 10.0 | 1.6 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.7015 | 0.7262 | | 10.4 | 10.0 | 3.5 | 20.0 |
| Isobutyl alcohol | Lin1 | | 0.0055 | | 239 | 200 | 19.5 | 50.0 |
| Benzene | Ave | 1.225 | 1.278 | | 10.4 | 10.0 | 4.3 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.3345 | 0.3464 | | 10.4 | 10.0 | 3.6 | 20.0 |
| Trichloroethene | Ave | 0.5741 | 0.5825 | | 10.1 | 10.0 | 1.5 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.4265 | 0.4414 | | 10.3 | 10.0 | 3.5 | 20.0 |
| Dibromomethane | Ave | 0.2687 | 0.2831 | | 10.5 | 10.0 | 5.4 | 20.0 |
| 1,4-Dioxane | Ave | 0.0013 | 0.0017 | | 645 | 500 | 28.9 | 50.0 |
| Dichlorobromomethane | Ave | 0.7033 | 0.7366 | | 10.5 | 10.0 | 4.7 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 2.738 | 2.938 | | 10.7 | 10.0 | 7.3 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.1926 | 0.2049 | | 42.6 | 40.0 | 6.4 | 20.0 |
| Toluene | Ave | 1.462 | 1.510 | | 10.3 | 10.0 | 3.2 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4223 | 0.4483 | | 10.6 | 10.0 | 6.2 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174063/2 Calibration Date: 05/13/2013 21:52

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 19:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/08/2013 21:33

Lab File ID: Z4280.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | Ave | 0.2791 | 0.3006 | | 10.8 | 10.0 | 7.7 | 20.0 |
| Tetrachloroethene | Ave | 2.417 | 2.582 | | 10.7 | 10.0 | 6.8 | 20.0 |
| 1,3-Dichloropropane | Ave | 2.053 | 2.209 | | 10.8 | 10.0 | 7.6 | 20.0 |
| 2-Hexanone | Ave | 0.5796 | 0.6344 | | 43.8 | 40.0 | 9.5 | 20.0 |
| Chlorodibromomethane | Ave | 2.216 | 2.372 | | 10.7 | 10.0 | 7.1 | 20.0 |
| Ethylene Dibromide | Ave | 1.704 | 1.834 | | 10.8 | 10.0 | 7.6 | 20.0 |
| 1-Chlorohexane | Ave | 3.335 | 3.385 | | 9.98 | 9.83 | 1.5 | 35.0 |
| Chlorobenzene | Ave | 4.679 | 4.916 | 0.3000 | 10.5 | 10.0 | 5.1 | 20.0 |
| Ethylbenzene | Ave | 2.382 | 2.470 | | 10.4 | 10.0 | 3.7 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 2.171 | 2.276 | | 10.5 | 10.0 | 4.8 | 20.0 |
| m-Xylene & p-Xylene | Ave | 3.098 | 3.240 | | 20.9 | 20.0 | 4.6 | 20.0 |
| o-Xylene | Ave | 2.819 | 2.934 | | 10.4 | 10.0 | 4.1 | 20.0 |
| Styrene | Ave | 4.483 | 4.802 | | 10.7 | 10.0 | 7.1 | 20.0 |
| Bromoform | Ave | 1.456 | 1.608 | 0.1000 | 11.0 | 10.0 | 10.4 | 20.0 |
| Isopropylbenzene | Ave | 5.071 | 5.117 | | 10.1 | 10.0 | 0.9 | 20.0 |
| Cyclohexanone | Ave | 0.0262 | 0.0297 | | 453 | 400 | 13.3 | 50.0 |
| Bromobenzene | Ave | 1.275 | 1.320 | | 10.4 | 10.0 | 3.6 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9536 | 1.021 | 0.3000 | 10.7 | 10.0 | 7.0 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2209 | 0.2362 | | 10.7 | 10.0 | 6.9 | 20.0 |
| N-Propylbenzene | Ave | 1.211 | 1.223 | | 10.1 | 10.0 | 1.0 | 20.0 |
| 2-Chlorotoluene | Ave | 1.018 | 1.035 | | 10.2 | 10.0 | 1.7 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.842 | 3.901 | | 10.2 | 10.0 | 1.5 | 20.0 |
| 4-Chlorotoluene | Ave | 1.082 | 1.095 | | 10.1 | 10.0 | 1.2 | 20.0 |
| tert-Butylbenzene | Ave | 3.637 | 3.569 | | 9.81 | 10.0 | -1.9 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 3.745 | 3.822 | | 10.2 | 10.0 | 2.1 | 20.0 |
| sec-Butylbenzene | Ave | 1.068 | 1.078 | | 10.1 | 10.0 | 0.9 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 2.214 | 2.250 | | 10.2 | 10.0 | 1.6 | 20.0 |
| 4-Isopropyltoluene | Ave | 4.624 | 4.585 | | 9.92 | 10.0 | -0.8 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 2.327 | 2.383 | | 10.2 | 10.0 | 2.4 | 20.0 |
| n-Butylbenzene | Ave | 4.908 | 4.921 | | 10.0 | 10.0 | 0.3 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.901 | 1.940 | | 10.2 | 10.0 | 2.1 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1853 | 0.2020 | | 10.9 | 10.0 | 9.0 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.538 | 1.507 | | 9.80 | 10.0 | -2.0 | 20.0 |
| Hexachlorobutadiene | Ave | 1.356 | 1.351 | | 9.96 | 10.0 | -0.4 | 20.0 |
| Naphthalene | Ave | 1.559 | 1.456 | | 9.34 | 10.0 | -6.6 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 1.231 | 1.160 | | 9.42 | 10.0 | -5.8 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4280.D
Lims ID: ccv Client ID:
Inject. Date: 13-May-2013 21:52:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 1
Lims Batch ID: 174063 Lims Sample ID: 2
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m
Last Update: 14-May-2013 16:49:11 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 13-May-2013 22:22:22

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.846 | 5.846 | 0.0 | 99 | 1413761 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.371 | 10.371 | 0.0 | 89 | 294363 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.442 | 14.442 | 0.0 | 98 | 541161 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.757 | 1.757 | 0.0 | 91 | 753121 | 10.0 | |
| 25 Chloromethane | 50 | 1.844 | 1.844 | 0.0 | 99 | 597510 | 10.0 | |
| 28 Vinyl chloride | 62 | 1.949 | 1.949 | 0.0 | 96 | 427963 | 9.97 | |
| 30 Bromomethane | 94 | 2.158 | 2.158 | 0.0 | 90 | 460091 | 9.56 | |
| 31 Chloroethane | 64 | 2.192 | 2.192 | 0.0 | 95 | 287049 | 9.59 | |
| 32 Dichlorofluoromethane | 67 | 2.349 | 2.349 | 0.0 | 97 | 1076017 | 11.3 | |
| 33 Trichlorofluoromethane | 101 | 2.401 | 2.401 | 0.0 | 96 | 1030949 | 9.76 | |
| 35 Ethanol | 45 | 2.488 | 2.488 | 0.0 | 72 | 61285 | 622.7 | |
| 41 Acrolein | 56 | 2.680 | 2.680 | 0.0 | 79 | 142481 | 116.7 | |
| 43 1,1-Dichloroethene | 96 | 2.714 | 2.714 | 0.0 | 98 | 444031 | 10.8 | |
| 42 Acetone | 43 | 2.801 | 2.801 | 0.0 | 95 | 144801 | 42.1 | |
| 45 Iodomethane | 142 | 2.871 | 2.871 | 0.0 | 99 | 887789 | 10.5 | |
| 50 Methylene Chloride | 84 | 3.167 | 3.167 | 0.0 | 96 | 463504 | 11.1 | |
| 47 Acetonitrile | 41 | 3.167 | 3.167 | 0.0 | 90 | 195559 | 113.8 | |
| 51 2-Methyl-2-propanol | 59 | 3.254 | 3.254 | 0.0 | 97 | 346404 | 243.0 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.376 | 3.376 | 0.0 | 96 | 530443 | 10.5 | |
| 52 Acrylonitrile | 53 | 3.445 | 3.445 | 0.0 | 99 | 379388 | 107.8 | |
| 58 Isopropyl ether | 87 | 3.811 | 3.811 | 0.0 | 98 | 1892946 | 53.8 | |
| 56 1,1-Dichloroethane | 63 | 3.828 | 3.828 | 0.0 | 95 | 907736 | 10.2 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.880 | 3.880 | 0.0 | 89 | 676408 | 10.5 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.454 | 4.454 | 0.0 | 85 | 539741 | 10.7 | |
| 63 2,2-Dichloropropane | 77 | 4.454 | 4.454 | 0.0 | 88 | 800489 | 10.5 | |
| 61 2-Butanone (MEK) | 43 | 4.489 | 4.489 | 0.0 | 99 | 293470 | 39.5 | |
| 64 Propionitrile | 54 | 4.646 | 4.646 | 0.0 | 78 | 144757 | 114.6 | |
| 68 Chlorobromomethane | 128 | 4.750 | 4.750 | 0.0 | 76 | 226349 | 10.6 | |
| 66 Methacrylonitrile | 41 | 4.785 | 4.785 | 0.0 | 95 | 951413 | 111.7 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.820 | 4.820 | 0.0 | 95 | 938276 | 10.3 | |
| 71 1,1,1-Trichloroethane | 97 | 5.029 | 5.029 | 0.0 | 80 | 942414 | 10.4 | |
| 74 Carbon tetrachloride | 117 | 5.185 | 5.185 | 0.0 | 88 | 860104 | 10.2 | |
| 73 1,1-Dichloropropene | 75 | 5.203 | 5.203 | 0.0 | 96 | 821287 | 10.4 | |
| 75 Isobutyl alcohol | 41 | 5.411 | 5.411 | 0.0 | 82 | 124815 | 239.0 | |
| 77 Benzene | 78 | 5.464 | 5.464 | 0.0 | 98 | 1445187 | 10.4 | |
| 76 1,2-Dichloroethane | 62 | 5.568 | 5.568 | 0.0 | 95 | 391805 | 10.4 | |
| 78 n-Butanol | 56 | 6.316 | 6.316 | 0.0 | 30 | 141566 | 340.2 | |
| 80 Trichloroethene | 95 | 6.316 | 6.316 | 0.0 | 96 | 658772 | 10.1 | |
| 83 1,2-Dichloropropane | 63 | 6.682 | 6.682 | 0.0 | 95 | 499253 | 10.3 | |
| 85 Dibromomethane | 93 | 6.838 | 6.838 | 0.0 | 92 | 320157 | 10.5 | |
| 87 1,4-Dioxane | 88 | 6.873 | 6.873 | 0.0 | 66 | 97194 | 644.7 | |
| 88 Dichlorobromomethane | 83 | 7.065 | 7.065 | 0.0 | 99 | 833090 | 10.5 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.726 | 7.726 | 0.0 | 90 | 691754 | 10.7 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.987 | 7.987 | 0.0 | 95 | 927050 | 42.6 | |
| 93 Toluene | 91 | 8.161 | 8.161 | 0.0 | 96 | 1707316 | 10.3 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.613 | 8.613 | 0.0 | 95 | 507076 | 10.6 | |
| 96 1,1,2-Trichloroethane | 97 | 8.892 | 8.892 | 0.0 | 92 | 340032 | 10.8 | |
| 97 Tetrachloroethene | 164 | 8.961 | 8.961 | 0.0 | 98 | 607993 | 10.7 | |
| 98 1,3-Dichloropropane | 76 | 9.153 | 9.153 | 0.0 | 91 | 520166 | 10.8 | |
| 99 2-Hexanone | 43 | 9.292 | 9.292 | 0.0 | 99 | 597552 | 43.8 | |
| 100 Chlorodibromomethane | 129 | 9.448 | 9.448 | 0.0 | 90 | 558658 | 10.7 | |
| 102 Ethylene Dibromide | 107 | 9.640 | 9.640 | 0.0 | 98 | 431798 | 10.8 | |
| 104 1-Chlorohexane | 91 | 10.405 | 10.405 | 0.0 | 95 | 783862 | 9.98 | |
| 103 Chlorobenzene | 112 | 10.423 | 10.423 | 0.0 | 90 | 1157751 | 10.5 | |
| 106 Ethylbenzene | 106 | 10.579 | 10.579 | 0.0 | 99 | 581657 | 10.4 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.597 | 10.597 | 0.0 | 96 | 535905 | 10.5 | |
| 107 m-Xylene & p-Xylene | 106 | 10.788 | 10.788 | 0.0 | 0 | 1525878 | 20.9 | |
| 108 o-Xylene | 106 | 11.467 | 11.467 | 0.0 | 96 | 690993 | 10.4 | |
| 109 Styrene | 104 | 11.519 | 11.519 | 0.0 | 95 | 1130719 | 10.7 | |
| 110 Bromoform | 173 | 11.815 | 11.815 | 0.0 | 95 | 378634 | 11.0 | |
| 111 Isopropylbenzene | 105 | 12.093 | 12.093 | 0.0 | 95 | 2215187 | 10.1 | |
| 112 Cyclohexanone | 55 | 12.354 | 12.354 | 0.0 | 93 | 279915 | 453.3 | |
| 114 Bromobenzene | 156 | 12.633 | 12.633 | 0.0 | 94 | 571493 | 10.4 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.755 | 12.755 | 0.0 | 93 | 441880 | 10.7 | |
| 118 N-Propylbenzene | 120 | 12.824 | 12.824 | 0.0 | 98 | 529528 | 10.1 | |
| 116 1,2,3-Trichloropropane | 110 | 12.824 | 12.824 | 0.0 | 49 | 102275 | 10.7 | |
| 119 2-Chlorotoluene | 126 | 12.963 | 12.963 | 0.0 | 95 | 448262 | 10.2 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.155 | 13.155 | 0.0 | 88 | 1688666 | 10.2 | |
| 120 4-Chlorotoluene | 126 | 13.190 | 13.190 | 0.0 | 98 | 474186 | 10.1 | |
| 122 tert-Butylbenzene | 119 | 13.694 | 13.694 | 0.0 | 90 | 1545153 | 9.81 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.816 | 13.816 | 0.0 | 98 | 1654855 | 10.2 | |
| 124 sec-Butylbenzene | 134 | 14.094 | 14.094 | 0.0 | 95 | 466767 | 10.1 | |
| 125 1,3-Dichlorobenzene | 146 | 14.303 | 14.303 | 0.0 | 90 | 973982 | 10.2 | |
| 126 4-Isopropyltoluene | 119 | 14.373 | 14.373 | 0.0 | 95 | 1984956 | 9.92 | |
| 127 1,4-Dichlorobenzene | 146 | 14.477 | 14.477 | 0.0 | 87 | 1031796 | 10.2 | |
| 130 n-Butylbenzene | 91 | 15.121 | 15.121 | 0.0 | 95 | 2130271 | 10.0 | |
| 129 1,2-Dichlorobenzene | 146 | 15.138 | 15.138 | 0.0 | 94 | 839911 | 10.2 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.443 | 16.443 | 0.0 | 85 | 87450 | 10.9 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.366 | 17.366 | 0.0 | 94 | 652581 | 9.80 | |
| 133 Hexachlorobutadiene | 225 | 17.505 | 17.505 | 0.0 | 97 | 584671 | 9.96 | |
| 134 Naphthalene | 128 | 17.609 | 17.609 | 0.0 | 95 | 630486 | 9.34 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.836 | 17.836 | 0.0 | 94 | 502299 | 9.42 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 21.3 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 31.3 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 21.3 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 21.3 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 42.5 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 31.3 | |
| S 138 Total BTEX | 1 | | | | 0 | | 62.4 | |

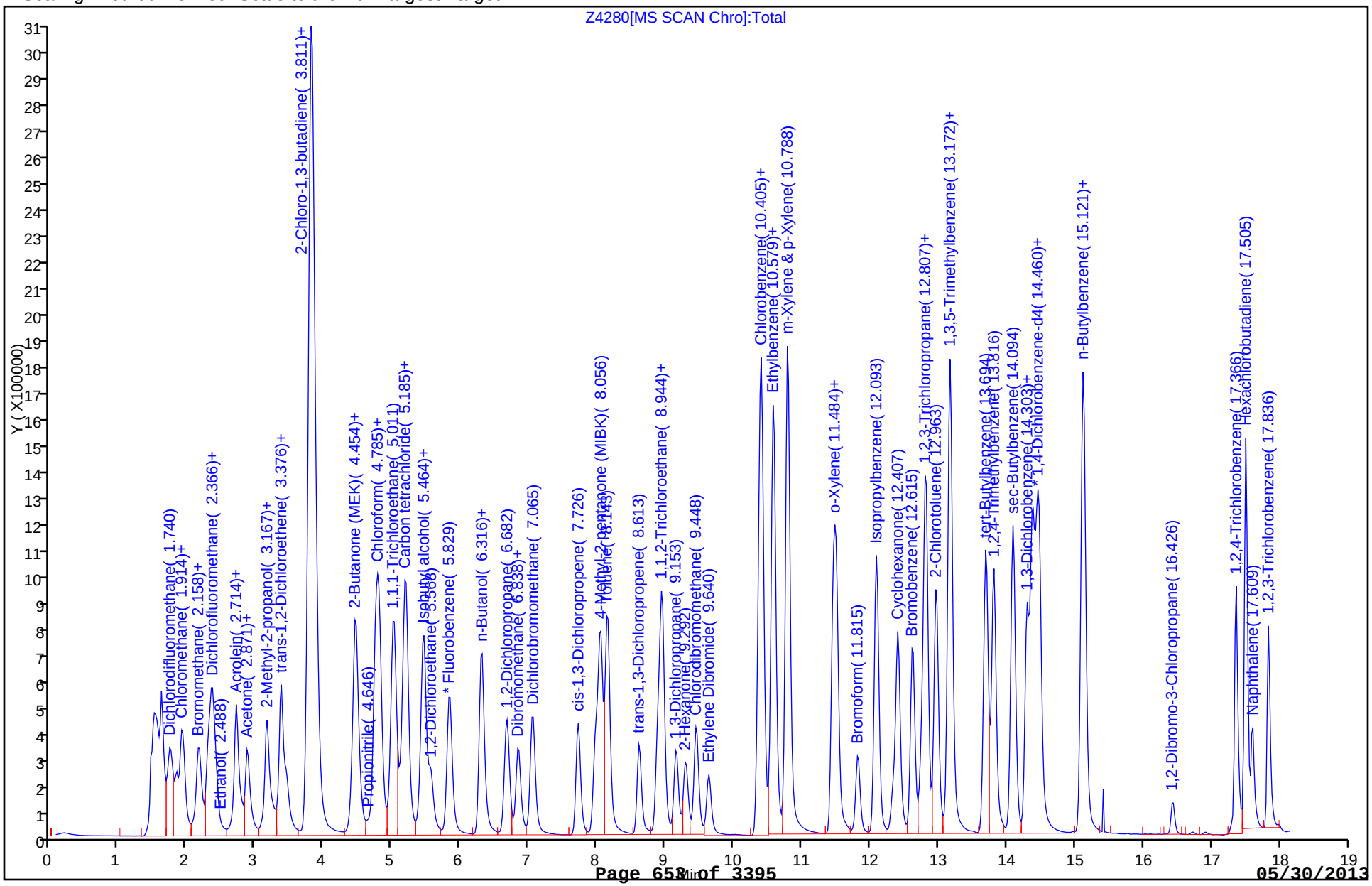
Report Date: 14-May-2013 16:49:11 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4280.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-May-2013 21:52:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 2 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174063/2 Calibration Date: 05/13/2013 21:52

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 22:40

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 00:31

Lab File ID: Z4280.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.8435 | 0.9514 | | 11.3 | 10.0 | 12.8 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4280.D
Lims ID: ccv Client ID:
Inject. Date: 13-May-2013 21:52:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 1
Lims Batch ID: 174063 Lims Sample ID: 2
Sublist: chrom-AQ_VMSZ_8260*sub6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m
Last Update: 14-May-2013 16:49:11 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 13-May-2013 22:22:22

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.846 | 5.846 | 0.0 | 99 | 1413761 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.371 | 10.371 | 0.0 | 89 | 294363 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.442 | 14.442 | 0.0 | 98 | 541161 | 12.5 | |
| 24 Dichlorodifluoromethane | 85 | 1.757 | 1.757 | 0.0 | 91 | 753121 | 10.0 | |
| 25 Chloromethane | 50 | 1.844 | 1.844 | 0.0 | 99 | 597510 | 10.0 | |
| 28 Vinyl chloride | 62 | 1.949 | 1.949 | 0.0 | 96 | 427963 | 9.97 | |
| 30 Bromomethane | 94 | 2.158 | 2.158 | 0.0 | 90 | 460091 | 9.56 | |
| 31 Chloroethane | 64 | 2.192 | 2.192 | 0.0 | 95 | 287049 | 9.59 | |
| 32 Dichlorofluoromethane | 67 | 2.349 | 2.349 | 0.0 | 97 | 1076017 | 11.3 | |
| 33 Trichlorofluoromethane | 101 | 2.401 | 2.401 | 0.0 | 96 | 1030949 | 9.76 | |
| 35 Ethanol | 45 | 2.488 | 2.488 | 0.0 | 72 | 61285 | 622.7 | |
| 41 Acrolein | 56 | 2.680 | 2.680 | 0.0 | 79 | 142481 | 116.7 | |
| 43 1,1-Dichloroethene | 96 | 2.714 | 2.714 | 0.0 | 98 | 444031 | 10.8 | |
| 42 Acetone | 43 | 2.801 | 2.801 | 0.0 | 95 | 144801 | 42.1 | |
| 45 Iodomethane | 142 | 2.871 | 2.871 | 0.0 | 99 | 887789 | 10.5 | |
| 50 Methylene Chloride | 84 | 3.167 | 3.167 | 0.0 | 96 | 463504 | 11.1 | |
| 47 Acetonitrile | 41 | 3.167 | 3.167 | 0.0 | 90 | 195559 | 113.8 | |
| 51 2-Methyl-2-propanol | 59 | 3.254 | 3.254 | 0.0 | 97 | 346404 | 243.0 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.376 | 3.376 | 0.0 | 96 | 530443 | 10.5 | |
| 52 Acrylonitrile | 53 | 3.445 | 3.445 | 0.0 | 99 | 379388 | 107.8 | |
| 58 Isopropyl ether | 87 | 3.811 | 3.811 | 0.0 | 98 | 1892946 | 53.8 | |
| 56 1,1-Dichloroethane | 63 | 3.828 | 3.828 | 0.0 | 95 | 907736 | 10.2 | |
| 59 2-Chloro-1,3-butadiene | 53 | 3.880 | 3.880 | 0.0 | 89 | 676408 | 10.5 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.454 | 4.454 | 0.0 | 85 | 539741 | 10.7 | |
| 63 2,2-Dichloropropane | 77 | 4.454 | 4.454 | 0.0 | 88 | 800489 | 10.5 | |
| 61 2-Butanone (MEK) | 43 | 4.489 | 4.489 | 0.0 | 99 | 293470 | 39.5 | |
| 64 Propionitrile | 54 | 4.646 | 4.646 | 0.0 | 78 | 144757 | 114.6 | |
| 68 Chlorobromomethane | 128 | 4.750 | 4.750 | 0.0 | 76 | 226349 | 10.6 | |
| 66 Methacrylonitrile | 41 | 4.785 | 4.785 | 0.0 | 95 | 951413 | 111.7 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.820 | 4.820 | 0.0 | 95 | 938276 | 10.3 | |
| 71 1,1,1-Trichloroethane | 97 | 5.029 | 5.029 | 0.0 | 80 | 942414 | 10.4 | |
| 74 Carbon tetrachloride | 117 | 5.185 | 5.185 | 0.0 | 88 | 860104 | 10.2 | |
| 73 1,1-Dichloropropene | 75 | 5.203 | 5.203 | 0.0 | 96 | 821287 | 10.4 | |
| 75 Isobutyl alcohol | 41 | 5.411 | 5.411 | 0.0 | 82 | 124815 | 239.0 | |
| 77 Benzene | 78 | 5.464 | 5.464 | 0.0 | 98 | 1445187 | 10.4 | |
| 76 1,2-Dichloroethane | 62 | 5.568 | 5.568 | 0.0 | 95 | 391805 | 10.4 | |
| 78 n-Butanol | 56 | 6.316 | 6.316 | 0.0 | 30 | 141566 | 340.2 | |
| 80 Trichloroethene | 95 | 6.316 | 6.316 | 0.0 | 96 | 658772 | 10.1 | |
| 83 1,2-Dichloropropane | 63 | 6.682 | 6.682 | 0.0 | 95 | 499253 | 10.3 | |
| 85 Dibromomethane | 93 | 6.838 | 6.838 | 0.0 | 92 | 320157 | 10.5 | |
| 87 1,4-Dioxane | 88 | 6.873 | 6.873 | 0.0 | 66 | 97194 | 644.7 | |
| 88 Dichlorobromomethane | 83 | 7.065 | 7.065 | 0.0 | 99 | 833090 | 10.5 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.726 | 7.726 | 0.0 | 90 | 691754 | 10.7 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.987 | 7.987 | 0.0 | 95 | 927050 | 42.6 | |
| 93 Toluene | 91 | 8.161 | 8.161 | 0.0 | 96 | 1707316 | 10.3 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.613 | 8.613 | 0.0 | 95 | 507076 | 10.6 | |
| 96 1,1,2-Trichloroethane | 97 | 8.892 | 8.892 | 0.0 | 92 | 340032 | 10.8 | |
| 97 Tetrachloroethene | 164 | 8.961 | 8.961 | 0.0 | 98 | 607993 | 10.7 | |
| 98 1,3-Dichloropropane | 76 | 9.153 | 9.153 | 0.0 | 91 | 520166 | 10.8 | |
| 99 2-Hexanone | 43 | 9.292 | 9.292 | 0.0 | 99 | 597552 | 43.8 | |
| 100 Chlorodibromomethane | 129 | 9.448 | 9.448 | 0.0 | 90 | 558658 | 10.7 | |
| 102 Ethylene Dibromide | 107 | 9.640 | 9.640 | 0.0 | 98 | 431798 | 10.8 | |
| 104 1-Chlorohexane | 91 | 10.405 | 10.405 | 0.0 | 95 | 783862 | 9.98 | |
| 103 Chlorobenzene | 112 | 10.423 | 10.423 | 0.0 | 90 | 1157751 | 10.5 | |
| 106 Ethylbenzene | 106 | 10.579 | 10.579 | 0.0 | 99 | 581657 | 10.4 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.597 | 10.597 | 0.0 | 96 | 535905 | 10.5 | |
| 107 m-Xylene & p-Xylene | 106 | 10.788 | 10.788 | 0.0 | 0 | 1525878 | 20.9 | |
| 108 o-Xylene | 106 | 11.467 | 11.467 | 0.0 | 96 | 690993 | 10.4 | |
| 109 Styrene | 104 | 11.519 | 11.519 | 0.0 | 95 | 1130719 | 10.7 | |
| 110 Bromoform | 173 | 11.815 | 11.815 | 0.0 | 95 | 378634 | 11.0 | |
| 111 Isopropylbenzene | 105 | 12.093 | 12.093 | 0.0 | 95 | 2215187 | 10.1 | |
| 112 Cyclohexanone | 55 | 12.354 | 12.354 | 0.0 | 93 | 279915 | 453.3 | |
| 114 Bromobenzene | 156 | 12.633 | 12.633 | 0.0 | 94 | 571493 | 10.4 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.755 | 12.755 | 0.0 | 93 | 441880 | 10.7 | |
| 118 N-Propylbenzene | 120 | 12.824 | 12.824 | 0.0 | 98 | 529528 | 10.1 | |
| 116 1,2,3-Trichloropropane | 110 | 12.824 | 12.824 | 0.0 | 49 | 102275 | 10.7 | |
| 119 2-Chlorotoluene | 126 | 12.963 | 12.963 | 0.0 | 95 | 448262 | 10.2 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.155 | 13.155 | 0.0 | 88 | 1688666 | 10.2 | |
| 120 4-Chlorotoluene | 126 | 13.190 | 13.190 | 0.0 | 98 | 474186 | 10.1 | |
| 122 tert-Butylbenzene | 119 | 13.694 | 13.694 | 0.0 | 90 | 1545153 | 9.81 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.816 | 13.816 | 0.0 | 98 | 1654855 | 10.2 | |
| 124 sec-Butylbenzene | 134 | 14.094 | 14.094 | 0.0 | 95 | 466767 | 10.1 | |
| 125 1,3-Dichlorobenzene | 146 | 14.303 | 14.303 | 0.0 | 90 | 973982 | 10.2 | |
| 126 4-Isopropyltoluene | 119 | 14.373 | 14.373 | 0.0 | 95 | 1984956 | 9.92 | |
| 127 1,4-Dichlorobenzene | 146 | 14.477 | 14.477 | 0.0 | 87 | 1031796 | 10.2 | |
| 130 n-Butylbenzene | 91 | 15.121 | 15.121 | 0.0 | 95 | 2130271 | 10.0 | |
| 129 1,2-Dichlorobenzene | 146 | 15.138 | 15.138 | 0.0 | 94 | 839911 | 10.2 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.443 | 16.443 | 0.0 | 85 | 87450 | 10.9 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.366 | 17.366 | 0.0 | 94 | 652581 | 9.80 | |
| 133 Hexachlorobutadiene | 225 | 17.505 | 17.505 | 0.0 | 97 | 584671 | 9.96 | |
| 134 Naphthalene | 128 | 17.609 | 17.609 | 0.0 | 95 | 630486 | 9.34 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.836 | 17.836 | 0.0 | 94 | 502299 | 9.42 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 21.3 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 31.3 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 21.3 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 21.3 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 42.5 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 31.3 | |
| S 138 Total BTEX | 1 | | | | 0 | | 62.4 | |

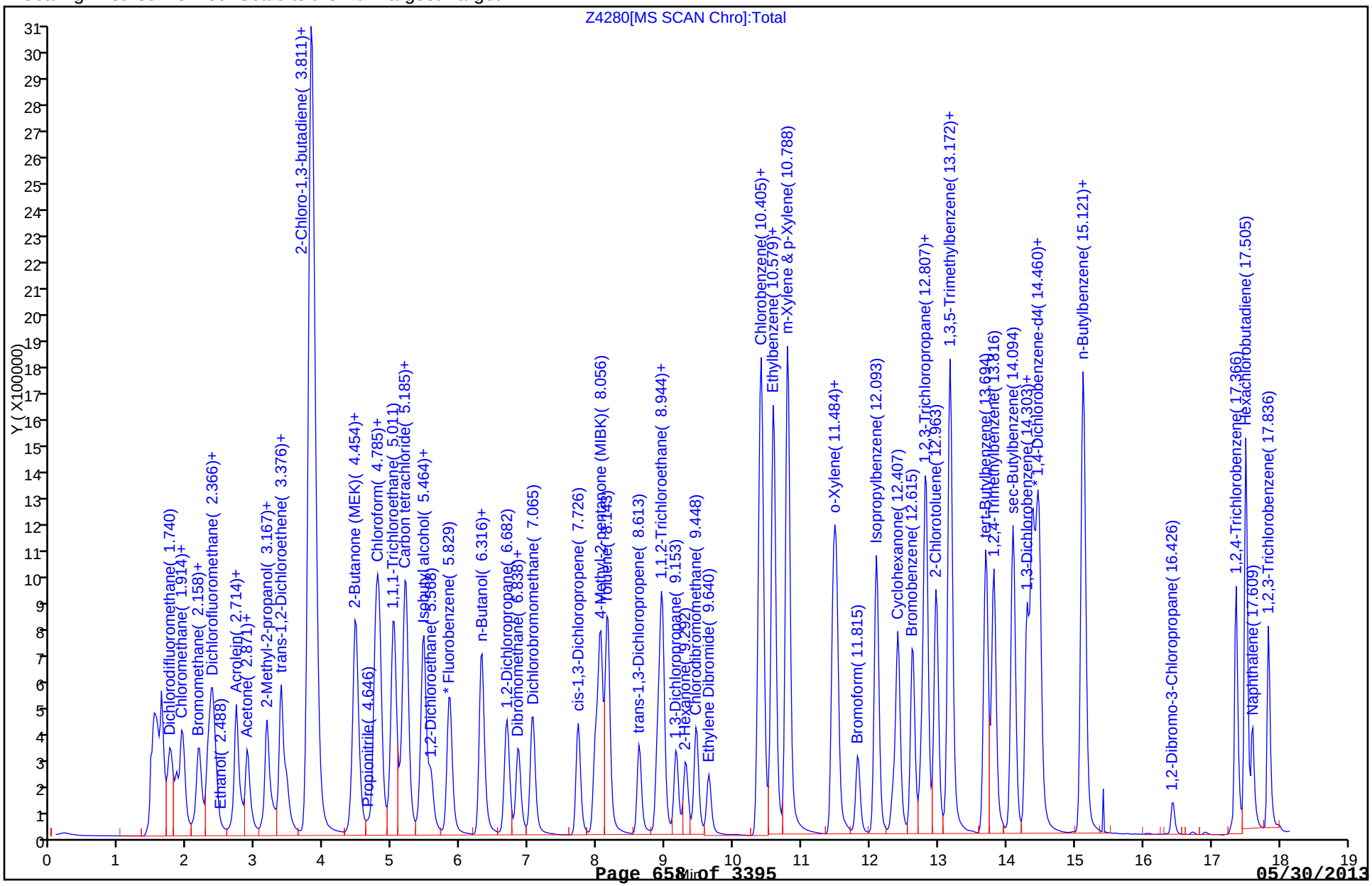
Report Date: 14-May-2013 16:49:11 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4280.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-May-2013 21:52:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 2 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174063/3 Calibration Date: 05/13/2013 22:15

Instrument ID: VMS_Z Calib Start Date: 05/08/2013 22:40

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 00:31

Lab File ID: Z4281.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.8435 | 0.9003 | | 10.7 | 10.0 | 6.7 | 50.0 |
| Ethyl ether | Ave | 0.2211 | 0.1811 | | 8.19 | 10.0 | -18.1 | 35.0 |
| Isopropyl alcohol | Ave | 0.0073 | 0.0077 | | 210 | 200 | 5.1 | 50.0 |
| 2,2-Dichloro-1,1,1-trifluoro ethane | Ave | 0.9313 | 1.007 | | 10.8 | 10.0 | 8.1 | 50.0 |
| 1,1,2-Trichloro-1,2,2-triflu oroethane | Ave | 0.4905 | 0.5465 | | 11.1 | 10.0 | 11.4 | 50.0 |
| Carbon disulfide | Ave | 1.202 | 1.368 | | 11.4 | 10.0 | 13.9 | 20.0 |
| Allyl chloride | Ave | 0.4982 | 0.5380 | | 10.8 | 10.0 | 8.0 | 35.0 |
| Methyl tert-butyl ether | Ave | 0.5688 | 0.6180 | | 10.9 | 10.0 | 8.7 | 20.0 |
| Hexane | Ave | 2.550 | 2.924 | | 11.5 | 10.0 | 14.7 | 20.0 |
| Tert-butyl ethyl ether | Ave | 1.000 | 1.043 | | 52.1 | 50.0 | 4.3 | 35.0 |
| 2-Butanol | Ave | 0.0101 | 0.0109 | | 391 | 364 | 7.3 | 50.0 |
| Tetrahydrofuran | Ave | 0.0369 | 0.0383 | | 20.8 | 20.0 | 3.8 | 50.0 |
| Cyclohexane | Ave | 0.6162 | 0.6672 | | 10.8 | 10.0 | 8.3 | 35.0 |
| Tert-amyl methyl ether | Ave | 0.7674 | 0.8173 | | 53.2 | 50.0 | 6.5 | 35.0 |
| Methylcyclohexane | Ave | 0.5814 | 0.6112 | | 10.5 | 10.0 | 5.1 | 35.0 |
| 2-Pentanone | Ave | 0.1332 | 0.1638 | | 49.2 | 40.0 | 23.0 | 50.0 |
| Methyl methacrylate | Ave | 0.0543 | 0.0586 | | 21.6 | 20.0 | 7.9 | 35.0 |
| 2-Nitropropane | Lin2 | | 0.0360 | | 9.06 | 10.0 | -9.4 | 50.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1290 | 0.1190 | | 9.23 | 10.0 | -7.7 | 50.0 |
| Ethyl methacrylate | Ave | 1.303 | 1.392 | | 21.4 | 20.0 | 6.8 | 35.0 |
| cis-1,4-Dichloro-2-butene | Ave | 0.0806 | 0.0813 | | 10.1 | 10.0 | 0.9 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1045 | 0.1060 | | 10.1 | 10.0 | 1.4 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.6553 | 0.6223 | | 8.55 | 9.00 | -5.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2959 | 0.2704 | | 8.22 | 9.00 | -8.6 | 20.0 |
| Toluene-d8 (Surr) | Ave | 6.015 | 5.946 | | 8.90 | 9.00 | -1.1 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 1.953 | 1.883 | | 8.68 | 9.00 | -3.5 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4281.D
Lims ID: ccv Client ID:
Inject. Date: 13-May-2013 22:15:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 2
Lims Batch ID: 174063 Lims Sample ID: 3
Sublist: chrom-AQ_VMSZ_8260*sub24
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m
Last Update: 14-May-2013 16:49:12 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 13-May-2013 23:08:25

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.840 | 5.840 | 0.0 | 99 | 1455250 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 311468 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.436 | 14.436 | 0.0 | 97 | 555040 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.023 | 5.023 | 0.0 | 79 | 652080 | 8.55 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.475 | 5.475 | 0.0 | 93 | 283350 | 8.22 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.050 | 8.050 | 0.0 | 93 | 1333503 | 8.90 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.401 | 12.401 | 0.0 | 85 | 752658 | 8.68 | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | 1.856 | 1.856 | 0.0 | 94 | 949899 | 15.5 | |
| 29 Ethylene oxide | 43 | 2.134 | 2.134 | 0.0 | 99 | 903017 | 1458.3 | |
| 32 Dichlorofluoromethane | 67 | 2.360 | 2.360 | 0.0 | 97 | 1048075 | 10.7 | |
| 37 Isopropyl alcohol | 45 | 2.534 | 2.534 | 0.0 | 62 | 179499 | 210.2 | |
| 36 Ethyl ether | 59 | 2.534 | 2.534 | 0.0 | 76 | 210836 | 8.19 | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | 2.587 | 2.587 | 0.0 | 97 | 750821 | 10.7 | |
| 40 Propene oxide | 58 | 2.621 | 2.621 | 0.0 | 96 | 1402471 | 538.7 | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | 2.621 | 2.621 | 0.0 | 78 | 1172055 | 10.8 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.761 | 2.761 | 0.0 | 94 | 636182 | 11.1 | |
| 46 Carbon disulfide | 76 | 2.935 | 2.935 | 0.0 | 99 | 1592652 | 11.4 | |
| 48 3-Chloro-1-propene | 41 | 3.039 | 3.039 | 0.0 | 92 | 626277 | 10.8 | |
| 54 Methyl tert-butyl ether | 73 | 3.387 | 3.387 | 0.0 | 90 | 719484 | 10.9 | |
| 55 Hexane | 57 | 3.561 | 3.561 | 0.0 | 96 | 728549 | 11.5 | |
| 60 Tert-butyl ethyl ether | 59 | 4.222 | 4.222 | 0.0 | 98 | 6071319 | 52.1 | |
| 67 sec-Butyl Alcohol | 45 | 4.692 | 4.692 | 0.0 | 99 | 460937 | 390.7 | |
| 70 Tetrahydrofuran | 42 | 4.779 | 4.779 | 0.0 | 90 | 89156 | 20.8 | |
| 72 Cyclohexane | 56 | 5.023 | 5.023 | 0.0 | 91 | 776720 | 10.8 | |
| 79 Tert-amyl methyl ether | 73 | 5.597 | 5.597 | 0.0 | 98 | 4757656 | 53.2 | |
| 84 Methylcyclohexane | 55 | 6.502 | 6.502 | 0.0 | 91 | 711563 | 10.5 | |
| 82 2-Pentanone | 43 | 6.641 | 6.641 | 0.0 | 98 | 762859 | 49.2 | |
| 86 Methyl methacrylate | 100 | 6.832 | 6.832 | 0.0 | 92 | 136346 | 21.6 | |
| 89 2-Nitropropane | 41 | 7.511 | 7.511 | 0.0 | 93 | 41919 | 9.06 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 90 2-Chloroethyl vinyl ether | 63 | 7.528 | 7.528 | 0.0 | 88 | 138572 | 9.23 | |
| 95 Ethyl methacrylate | 69 | 8.712 | 8.712 | 0.0 | 91 | 693580 | 21.4 | |
| 101 Tetrahydrothiophene | 60 | 9.390 | 9.390 | 0.0 | 87 | 41113 | 9.04 | |
| 113 cis-1,4-Dichloro-2-butene | 53 | 12.348 | 12.348 | 0.0 | 0 | 36113 | 10.1 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.870 | 12.870 | 0.0 | 93 | 47059 | 10.1 | |
| 128 1,2,3-Trimethylbenzene | 105 | 14.558 | 14.558 | 0.0 | 91 | 1518145 | 10.6 | |

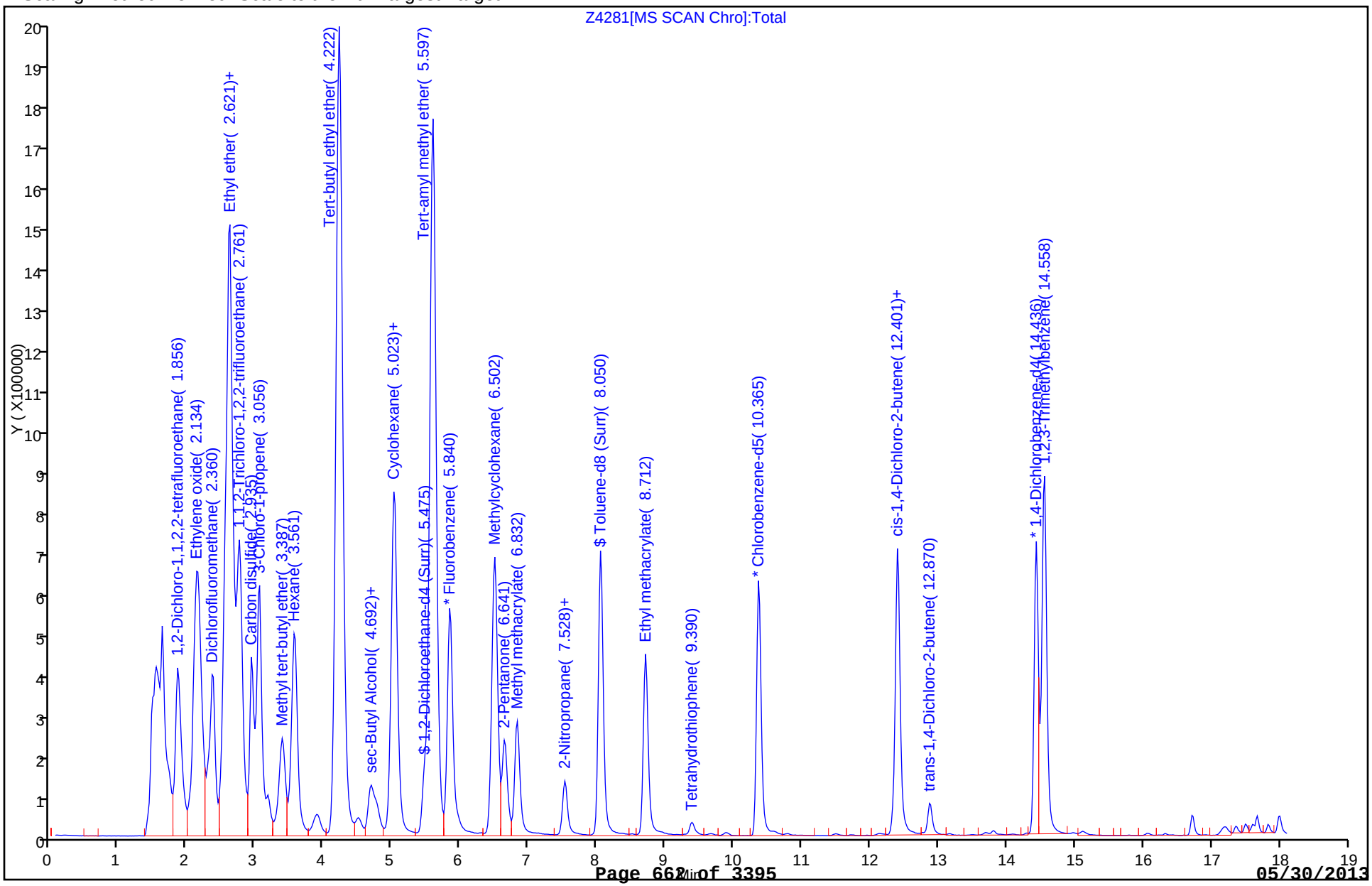
Report Date: 14-May-2013 16:49:12 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4281.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-May-2013 22:15:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 3 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: CCV 280-174063/4 Calibration Date: 05/13/2013 22:37

Instrument ID: VMS_Z Calib Start Date: 05/09/2013 00:53

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/09/2013 02:44

Lab File ID: Z4282.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Methyl acetate | Ave | 0.1068 | 0.1063 | | 49.8 | 50.0 | -0.5 | 50.0 |
| Vinyl acetate | Ave | 0.4423 | 0.4164 | | 18.8 | 20.0 | -5.9 | 50.0 |
| Ethyl acetate | Ave | 0.1681 | 0.1609 | | 19.1 | 20.0 | -4.3 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4282.D | | |
| Lims ID: | ccv | Client ID: | |
| Inject. Date: | 13-May-2013 22:37:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | ccv | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 3 |
| Lims Batch ID: | 174063 | Lims Sample ID: | 4 |
| Sublist: | chrom-AQ_VMSZ_8260*sub28 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m | | |
| Last Update: | 14-May-2013 16:49:12 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 13-May-2013 23:08:33 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.841 | 0.0 | 98 | 1385440 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 298655 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.436 | 14.436 | 0.0 | 97 | 530642 | 12.5 | |
| 49 Methyl acetate | 43 | 3.056 | 3.056 | 0.0 | 99 | 589155 | 49.8 | |
| 57 Vinyl acetate | 43 | 3.839 | 3.839 | 0.0 | 97 | 923026 | 18.8 | |
| 65 Ethyl acetate | 43 | 4.501 | 4.501 | 0.0 | 99 | 356738 | 19.1 | |

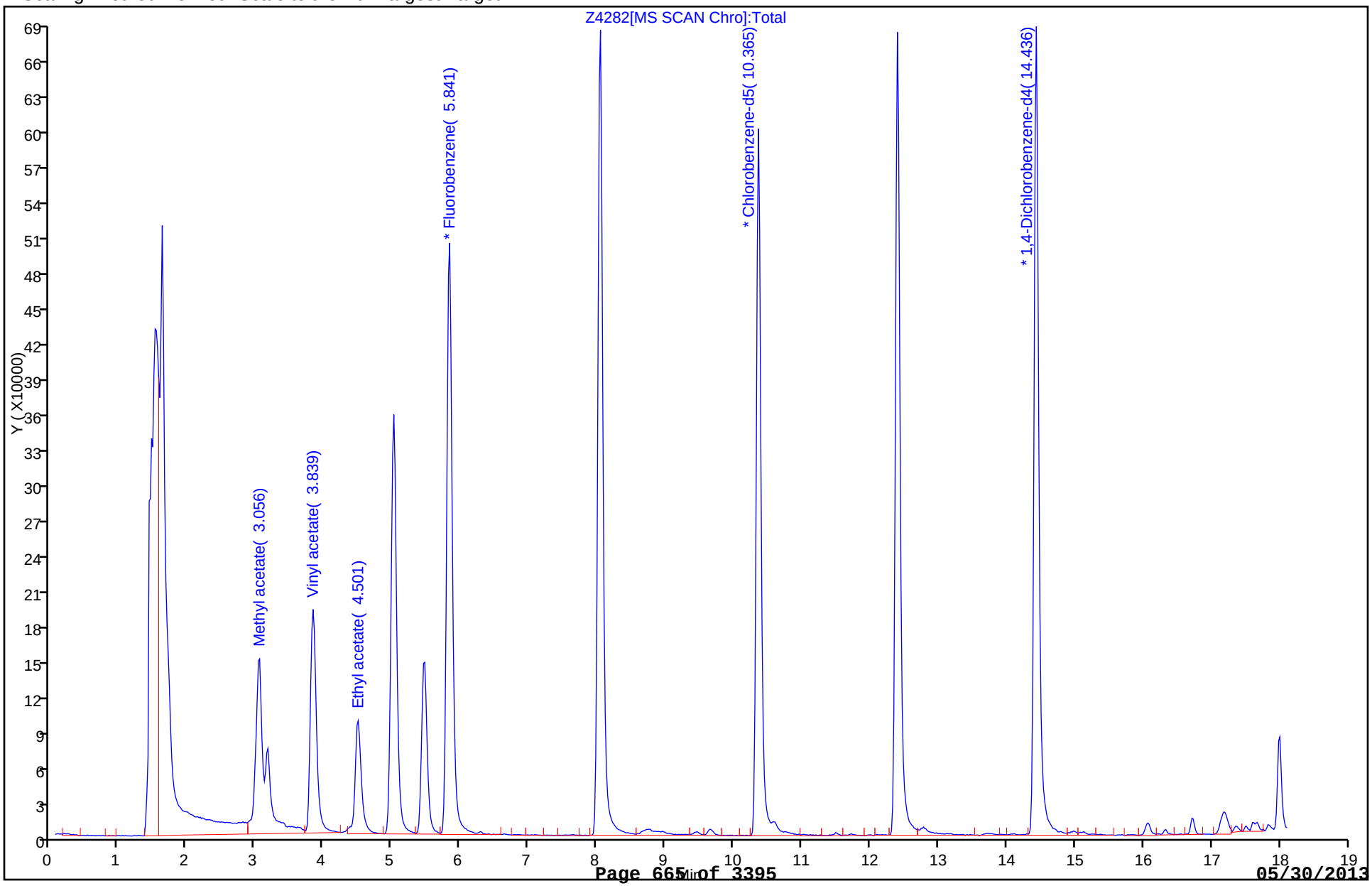
Report Date: 14-May-2013 16:49:13 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4282.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-May-2013 22:37:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 4 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5567.D | | |
| Lims ID: | bfb | Client ID: | |
| Inject. Date: | 28-Feb-2013 07:37:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | | | |
| Operator: | ilczyszynd | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-Mar-2013 11:51:46 | Calib Date: | 28-Feb-2013 12:04:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5580.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 28-Feb-2013 07:47:25 |

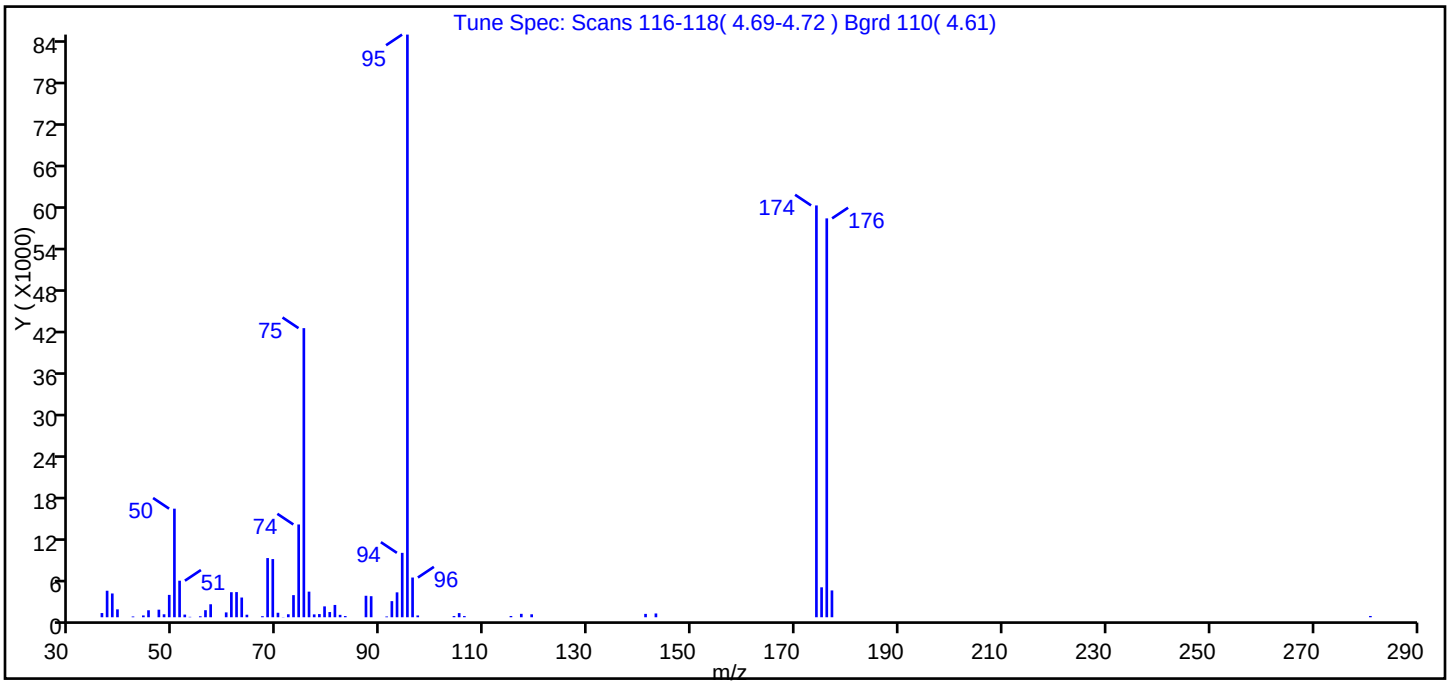
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 4.705 | 4.705 | 0.0 | 0 | 252724 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5567.D | | |
| Injection Date: | 28-Feb-2013 07:37:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 162427 | Lims Sample ID: | 1 |
| Operator ID: | ilczyszynd | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.64 |
| 75 | 30.00 - 60.00% of mass 95 | 49.62 |
| 96 | 5.00 - 9.00% of mass 95 | 6.82 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 70.68 |
| 175 | 5.00 - 9.00% of mass 174 | 5.14 ( 7.27) |
| 176 | 95.00 - 101.00% of mass 174 | 68.46 ( 96.85) |
| 177 | 5.00 - 9.00% of mass 176 | 4.60 ( 6.72) |

Data File: \\Denchrom\ChromData\VMS_G2\20130228-9196.b\g2_5567.D\AQ_VMSG2_8260.rslt\spectra.d
Injection Date: 28-Feb-2013 07:37:30
Spectrum: Tune Spec: Scans 116-118( 4.69-4.72 ) Bgrd 110( 4.61)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 61

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 614 | 57.00 | 1894 | 77.00 | 419 | 104.00 | 175 |
| 37.00 | 3865 | 60.00 | 708 | 78.00 | 463 | 105.00 | 607 |
| 38.00 | 3465 | 61.00 | 3651 | 79.00 | 1585 | 106.00 | 173 |
| 39.00 | 1153 | 62.00 | 3667 | 80.00 | 761 | 115.00 | 184 |
| 42.00 | 114 | 63.00 | 2875 | 81.00 | 1793 | 117.00 | 499 |
| 44.00 | 263 | 64.00 | 371 | 82.00 | 352 | 119.00 | 434 |
| 45.00 | 1018 | 67.00 | 151 | 83.00 | 175 | 141.00 | 491 |
| 47.00 | 1103 | 68.00 | 8625 | 87.00 | 3131 | 143.00 | 553 |
| 48.00 | 434 | 69.00 | 8477 | 88.00 | 3068 | 174.00 | 60000 |
| 49.00 | 3259 | 70.00 | 656 | 91.00 | 113 | 175.00 | 4361 |
| 50.00 | 15820 | 71.00 | 29 | 92.00 | 2349 | 176.00 | 58112 |
| 51.00 | 5326 | 72.00 | 435 | 93.00 | 3629 | 177.00 | 3908 |
| 52.00 | 388 | 73.00 | 3223 | 94.00 | 9384 | 281.00 | 185 |
| 53.00 | 61 | 74.00 | 13518 | 95.00 | 84888 | | |
| 55.00 | 142 | 75.00 | 42120 | 96.00 | 5788 | | |
| 56.00 | 1029 | 76.00 | 3733 | 97.00 | 260 | | |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7662.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 30-Apr-2013 18:16:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\AQ_VMSG2_8260.m | | |
| Last Update: | 01-May-2013 16:51:00 | Calib Date: | 30-Apr-2013 20:53:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7670.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 01-May-2013 16:51:00 |

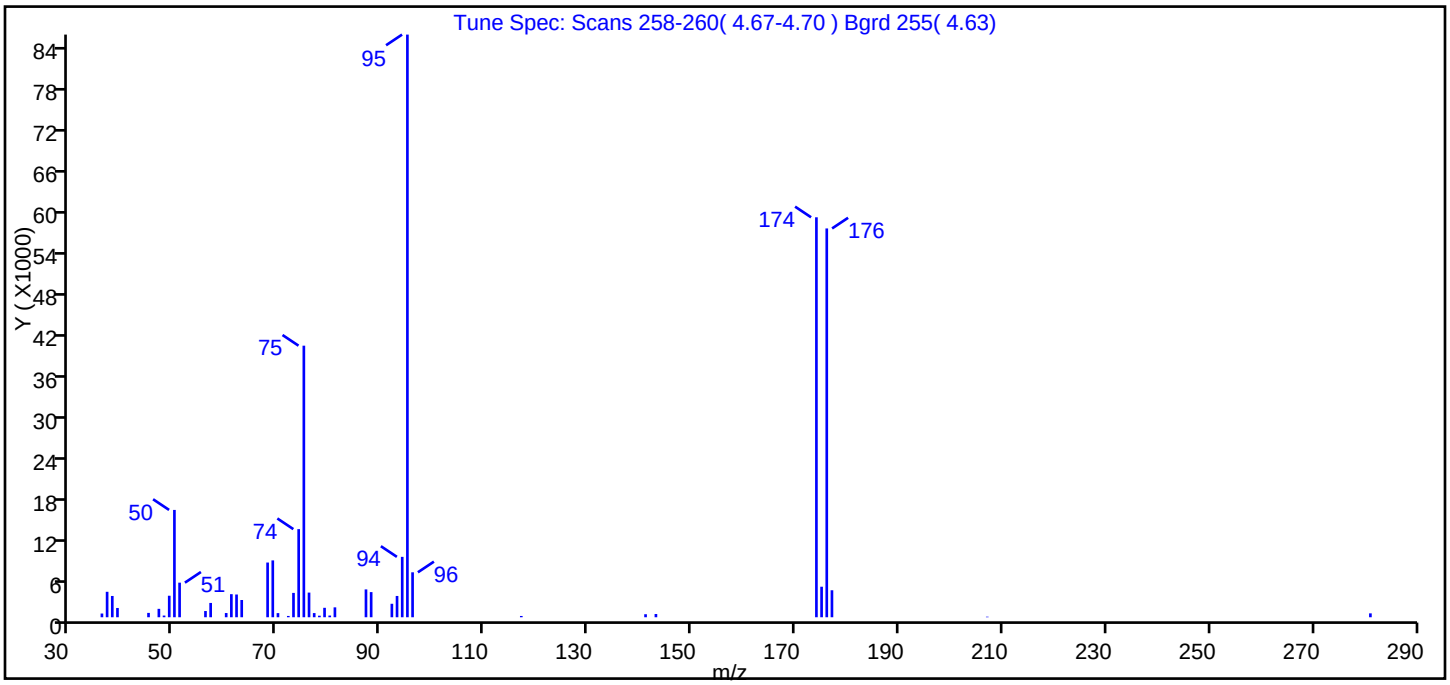
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 4.688 | 4.688 | 0.0 | 0 | 223889 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7662.D | | |
| Injection Date: | 30-Apr-2013 18:16:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 171996 | Lims Sample ID: | 1 |
| Operator ID: | DUKESA | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.42 |
| 75 | 30.00 - 60.00% of mass 95 | 46.61 |
| 96 | 5.00 - 9.00% of mass 95 | 7.72 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 68.64 |
| 175 | 5.00 - 9.00% of mass 174 | 5.24 ( 7.63) |
| 176 | 95.00 - 101.00% of mass 174 | 66.73 ( 97.21) |
| 177 | 5.00 - 9.00% of mass 176 | 4.63 ( 6.94) |

Data File: \\Denchrom\ChromData\VMS_G2\20130430-11132.b\g2_7662.D\AQ_VMSG2_8260.rslt\spectra.d
Injection Date: 30-Apr-2013 18:16:30
Spectrum: Tune Spec: Scans 258-260( 4.67-4.70 ) Bgrd 255( 4.63)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 45

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 549 | 60.00 | 622 | 77.00 | 616 | 117.00 | 189 |
| 37.00 | 3742 | 61.00 | 3394 | 78.00 | 229 | 141.00 | 446 |
| 38.00 | 3128 | 62.00 | 3344 | 79.00 | 1389 | 143.00 | 476 |
| 39.00 | 1363 | 63.00 | 2537 | 80.00 | 250 | 174.00 | 58792 |
| 45.00 | 640 | 68.00 | 8043 | 81.00 | 1455 | 175.00 | 4488 |
| 47.00 | 1237 | 69.00 | 8358 | 87.00 | 4094 | 176.00 | 57152 |
| 48.00 | 250 | 70.00 | 610 | 88.00 | 3697 | 177.00 | 3968 |
| 49.00 | 3164 | 72.00 | 192 | 92.00 | 1981 | 207.00 | 82 |
| 50.00 | 15777 | 73.00 | 3580 | 93.00 | 3130 | 281.00 | 573 |
| 51.00 | 5085 | 74.00 | 12954 | 94.00 | 8878 | | |
| 56.00 | 914 | 75.00 | 39920 | 95.00 | 85648 | | |
| 57.00 | 2104 | 76.00 | 3626 | 96.00 | 6608 | | |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8117.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 09-May-2013 19:10:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | | | |
| Operator: | DUKESA | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\SO_VMSG2_8260.m | | |
| Last Update: | 10-May-2013 16:19:42 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPHEATHER | | |
| First Level Reviewer: dukesa | | Date: | 09-May-2013 19:18:04 |

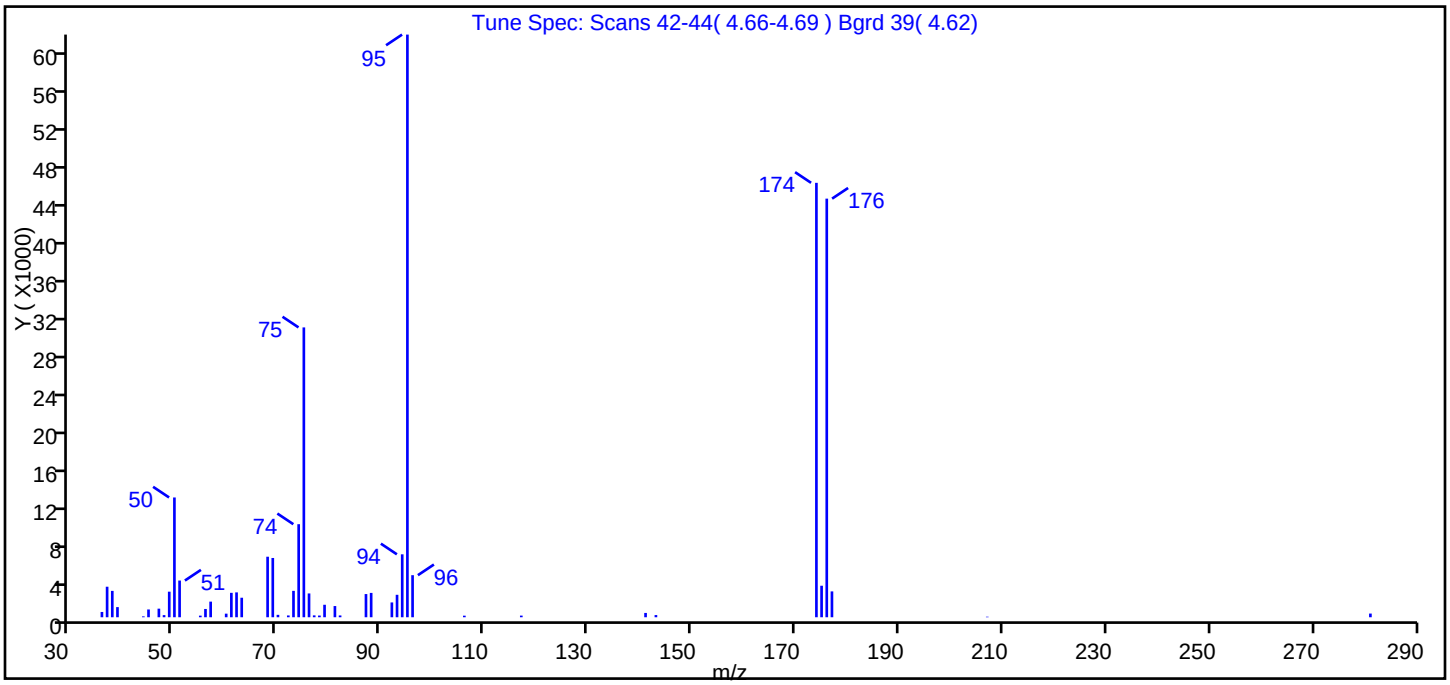
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 4.672 | 4.672 | 0.0 | 0 | 160437 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8117.D | | |
| Injection Date: | 09-May-2013 19:10:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173584 | Lims Sample ID: | 1 |
| Operator ID: | DUKESA | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.56 |
| 75 | 30.00 - 60.00% of mass 95 | 49.74 |
| 96 | 5.00 - 9.00% of mass 95 | 7.22 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 74.56 |
| 175 | 5.00 - 9.00% of mass 174 | 5.41 ( 7.25) |
| 176 | 95.00 - 101.00% of mass 174 | 71.84 ( 96.36) |
| 177 | 5.00 - 9.00% of mass 176 | 4.44 ( 6.18) |

Data File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8117.D\SO_VMSG2_8260.rslt\spectra.d
Injection Date: 09-May-2013 19:10:30
Spectrum: Tune Spec: Scans 42-44( 4.66-4.69 ) Bgrd 39( 4.62)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 554 | 56.00 | 868 | 75.00 | 30360 | 95.00 | 61032 |
| 37.00 | 3198 | 57.00 | 1637 | 76.00 | 2494 | 96.00 | 4407 |
| 38.00 | 2762 | 60.00 | 377 | 77.00 | 197 | 106.00 | 166 |
| 39.00 | 1063 | 61.00 | 2558 | 78.00 | 179 | 117.00 | 173 |
| 44.00 | 91 | 62.00 | 2605 | 79.00 | 1308 | 141.00 | 452 |
| 45.00 | 816 | 63.00 | 2046 | 81.00 | 1174 | 143.00 | 229 |
| 47.00 | 900 | 68.00 | 6341 | 82.00 | 189 | 174.00 | 45504 |
| 48.00 | 225 | 69.00 | 6209 | 87.00 | 2430 | 175.00 | 3301 |
| 49.00 | 2679 | 70.00 | 253 | 88.00 | 2550 | 176.00 | 43848 |
| 50.00 | 12547 | 72.00 | 189 | 92.00 | 1552 | 177.00 | 2709 |
| 51.00 | 3845 | 73.00 | 2766 | 93.00 | 2352 | 207.00 | 57 |
| 55.00 | 168 | 74.00 | 9747 | 94.00 | 6592 | 281.00 | 387 |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8146.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 10-May-2013 07:11:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | | | |
| Operator: | ILCZYSZYND | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\AQ_VMSG2_8260.m | | |
| Last Update: | 11-May-2013 08:29:58 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC277 | | |
| First Level Reviewer: ilczyszynd | | Date: | 11-May-2013 08:25:11 |

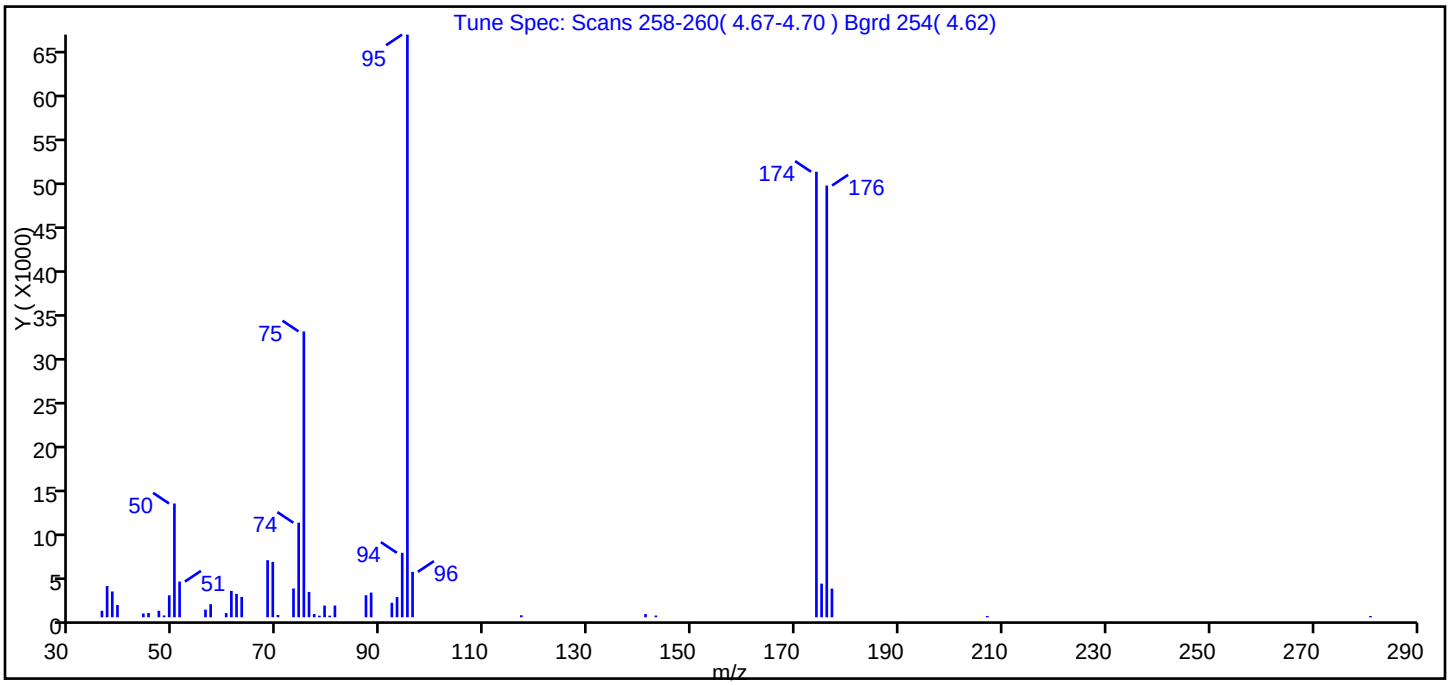
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 4.688 | 4.688 | 0.0 | 0 | 195285 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8146.D | | |
| Injection Date: | 10-May-2013 07:11:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 173622 | Lims Sample ID: | 1 |
| Operator ID: | ILCZYSZYND | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 19.52 |
| 75 | 30.00 - 60.00% of mass 95 | 49.06 |
| 96 | 5.00 - 9.00% of mass 95 | 7.80 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 76.46 |
| 175 | 5.00 - 9.00% of mass 174 | 5.77 ( 7.55) |
| 176 | 95.00 - 101.00% of mass 174 | 74.10 ( 96.91) |
| 177 | 5.00 - 9.00% of mass 176 | 4.92 ( 6.64) |

Data File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8146.D\AQ_VMSG2_8260.rslt\spectra.d
Injection Date: 10-May-2013 07:11:30
Spectrum: Tune Spec: Scans 258-260( 4.67-4.70 ) Bgrd 254( 4.62)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 45

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 734 | 57.00 | 1491 | 77.00 | 369 | 117.00 | 225 |
| 37.00 | 3559 | 60.00 | 477 | 78.00 | 180 | 141.00 | 360 |
| 38.00 | 2941 | 61.00 | 3006 | 79.00 | 1329 | 143.00 | 196 |
| 39.00 | 1396 | 62.00 | 2668 | 80.00 | 182 | 174.00 | 50792 |
| 44.00 | 430 | 63.00 | 2323 | 81.00 | 1338 | 175.00 | 3835 |
| 45.00 | 485 | 68.00 | 6509 | 87.00 | 2511 | 176.00 | 49224 |
| 47.00 | 743 | 69.00 | 6316 | 88.00 | 2811 | 177.00 | 3270 |
| 48.00 | 204 | 70.00 | 259 | 92.00 | 1653 | 207.00 | 147 |
| 49.00 | 2503 | 73.00 | 3282 | 93.00 | 2308 | 281.00 | 143 |
| 50.00 | 12968 | 74.00 | 10776 | 94.00 | 7347 | | |
| 51.00 | 4068 | 75.00 | 32592 | 95.00 | 66432 | | |
| 56.00 | 866 | 76.00 | 2886 | 96.00 | 5181 | | |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8393.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 15-May-2013 19:32:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | | | |
| Operator: | moanm | Instrument ID: | VMS_G2 |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 98 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m | | |
| Last Update: | 16-May-2013 17:07:52 | Calib Date: | 10-May-2013 10:10:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | DENPC371 | | |
| First Level Reviewer: moanm | | Date: | 15-May-2013 19:39:16 |

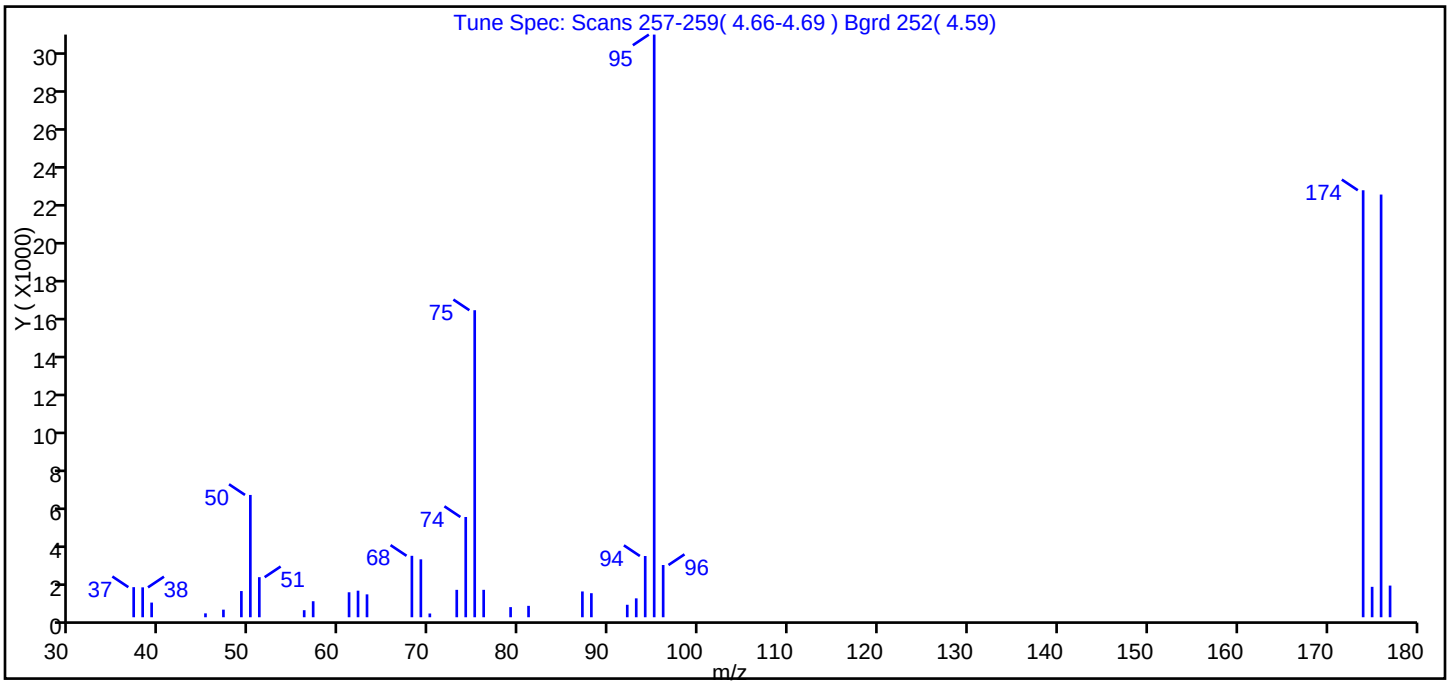
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 4.674 | 4.674 | 0.0 | 0 | 95101 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8393.D | | |
| Injection Date: | 15-May-2013 19:32:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 1 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.99 |
| 75 | 30.00 - 60.00% of mass 95 | 52.69 |
| 96 | 5.00 - 9.00% of mass 95 | 8.97 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 73.28 |
| 175 | 5.00 - 9.00% of mass 174 | 5.22 ( 7.13) |
| 176 | 95.00 - 101.00% of mass 174 | 72.55 ( 98.99) |
| 177 | 5.00 - 9.00% of mass 176 | 5.44 ( 7.49) |

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8393.D\AQ_VMSG2_8260.rslt\spectra.d
Injection Date: 15-May-2013 19:32:30
Spectrum: Tune Spec: Scans 257-259( 4.66-4.69 ) Bgrd 252( 4.59)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 1570 | 57.00 | 836 | 75.00 | 16015 | 95.00 | 30392 |
| 38.00 | 1560 | 61.00 | 1303 | 76.00 | 1431 | 96.00 | 2725 |
| 39.00 | 766 | 62.00 | 1386 | 79.00 | 529 | 174.00 | 22272 |
| 45.00 | 203 | 63.00 | 1194 | 81.00 | 595 | 175.00 | 1587 |
| 47.00 | 397 | 68.00 | 3205 | 87.00 | 1346 | 176.00 | 22048 |
| 49.00 | 1367 | 69.00 | 3021 | 88.00 | 1255 | 177.00 | 1652 |
| 50.00 | 6380 | 70.00 | 196 | 92.00 | 651 | | |
| 51.00 | 2090 | 73.00 | 1430 | 93.00 | 986 | | |
| 56.00 | 368 | 74.00 | 5230 | 94.00 | 3194 | | |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8485.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 17-May-2013 07:05:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | | | |
| Operator: | meierg | Instrument ID: | VMS_G2 |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m | | |
| Last Update: | 18-May-2013 06:26:27 | Calib Date: | 10-May-2013 03:16:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Process Host: | XAWRK024 | | |
| First Level Reviewer: meierg | | Date: | 17-May-2013 07:14:35 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 4.672 | 4.672 | 0.0 | 0 | 142437 | 0 | A |

QC Flag Legend

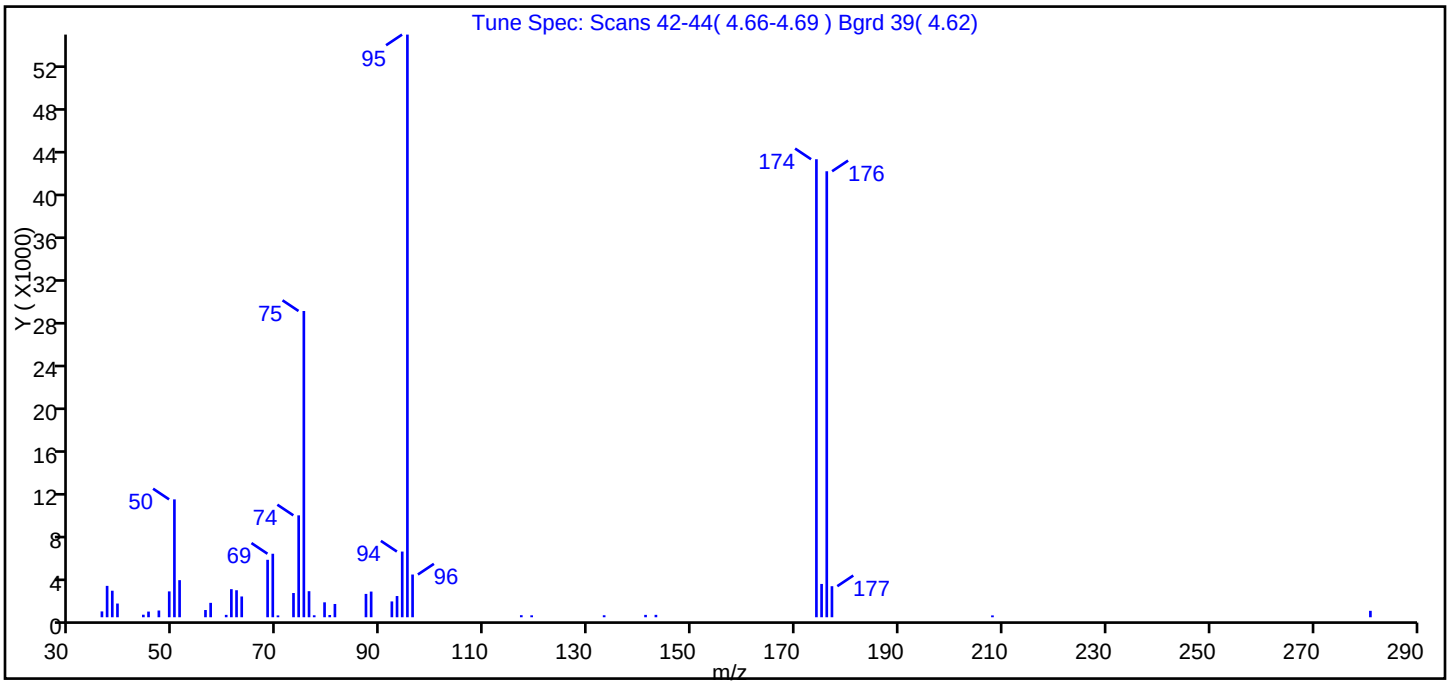
Review Flags
A - User Assigned ID

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8485.D | | |
| Injection Date: | 17-May-2013 07:05:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 1 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.23 |
| 75 | 30.00 - 60.00% of mass 95 | 52.56 |
| 96 | 5.00 - 9.00% of mass 95 | 7.34 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 78.61 |
| 175 | 5.00 - 9.00% of mass 174 | 5.72 ( 7.27) |
| 176 | 95.00 - 101.00% of mass 174 | 76.54 ( 97.37) |
| 177 | 5.00 - 9.00% of mass 176 | 5.33 ( 6.96) |

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8485.D\SO_VMSG2_8260.rslt\spectra.d
Injection Date: 17-May-2013 07:05:30
Spectrum: Tune Spec: Scans 42-44( 4.66-4.69 ) Bgrd 39( 4.62)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 45

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 549 | 60.00 | 225 | 79.00 | 1400 | 133.00 | 188 |
| 37.00 | 2943 | 61.00 | 2634 | 80.00 | 211 | 141.00 | 223 |
| 38.00 | 2489 | 62.00 | 2534 | 81.00 | 1245 | 143.00 | 226 |
| 39.00 | 1287 | 63.00 | 1949 | 87.00 | 2190 | 174.00 | 42952 |
| 44.00 | 239 | 68.00 | 5388 | 88.00 | 2409 | 175.00 | 3124 |
| 45.00 | 532 | 69.00 | 5956 | 92.00 | 1484 | 176.00 | 41824 |
| 47.00 | 633 | 70.00 | 172 | 93.00 | 1990 | 177.00 | 2912 |
| 49.00 | 2426 | 73.00 | 2273 | 94.00 | 6161 | 208.00 | 174 |
| 50.00 | 11055 | 74.00 | 9556 | 95.00 | 54640 | 281.00 | 603 |
| 51.00 | 3479 | 75.00 | 28720 | 96.00 | 4008 | | |
| 56.00 | 679 | 76.00 | 2444 | 117.00 | 193 | | |
| 57.00 | 1351 | 77.00 | 185 | 119.00 | 182 | | |

Manual Integration/User Assign Peak Report

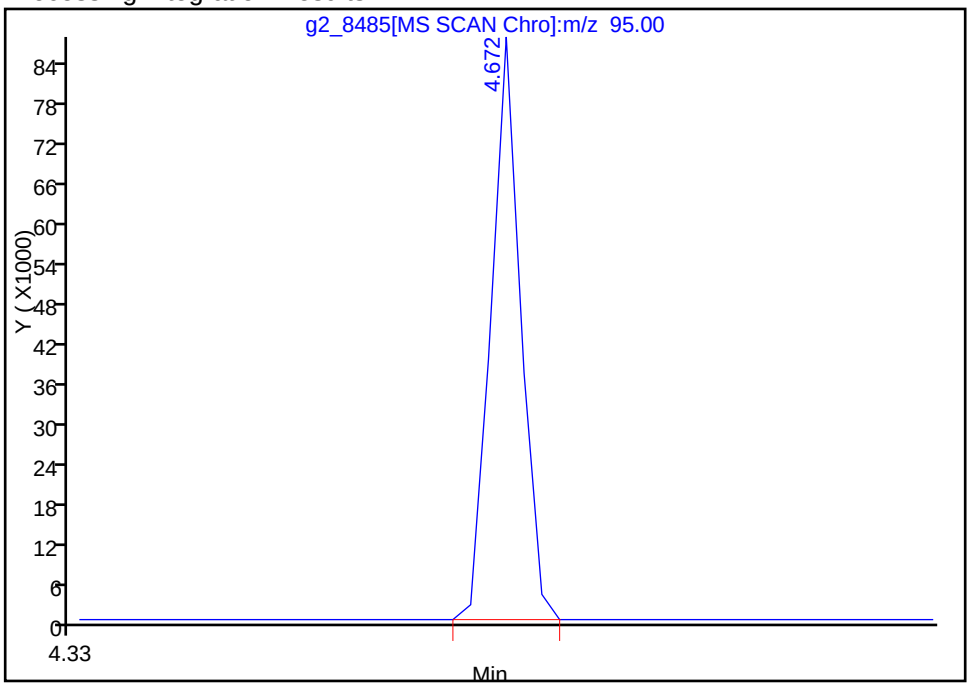
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8485.D | | |
| Injection Date: | 17-May-2013 07:05:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 1 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

$ 4 BFB, Signal: 1, m/z: 95.0 Type: quant, RT: 4.67

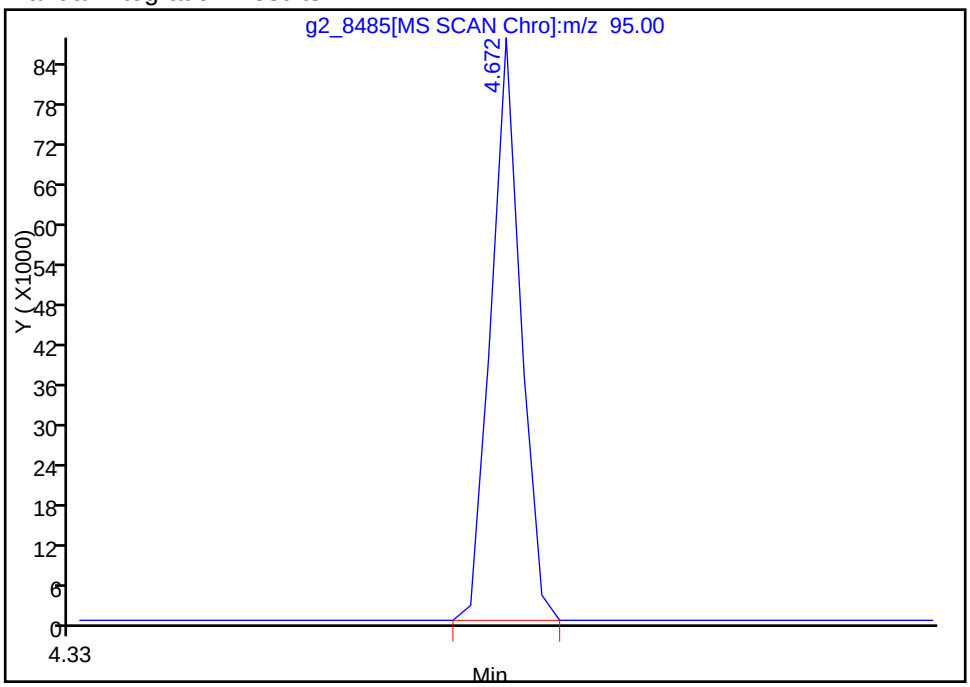
Processing Integration Results

RT: 4.67
Response: 142437
Amount: 0




Manual Integration Results

RT: 4.67
Response: 142437
Amount: 0




Reviewer: meierg, 17-May-2013 07:14:35
Audit Action: Assigned Compound ID
Audit Reason:

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3797.D | | |
| Lims ID: | bfb | Client ID: | |
| Inject. Date: | 01-May-2013 19:59:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | bfb | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 172220 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\AQ_VMSZ_8260.m | | |
| Last Update: | 02-May-2013 00:17:58 | Calib Date: | 01-May-2013 23:48:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3807.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 01-May-2013 20:02:32 |

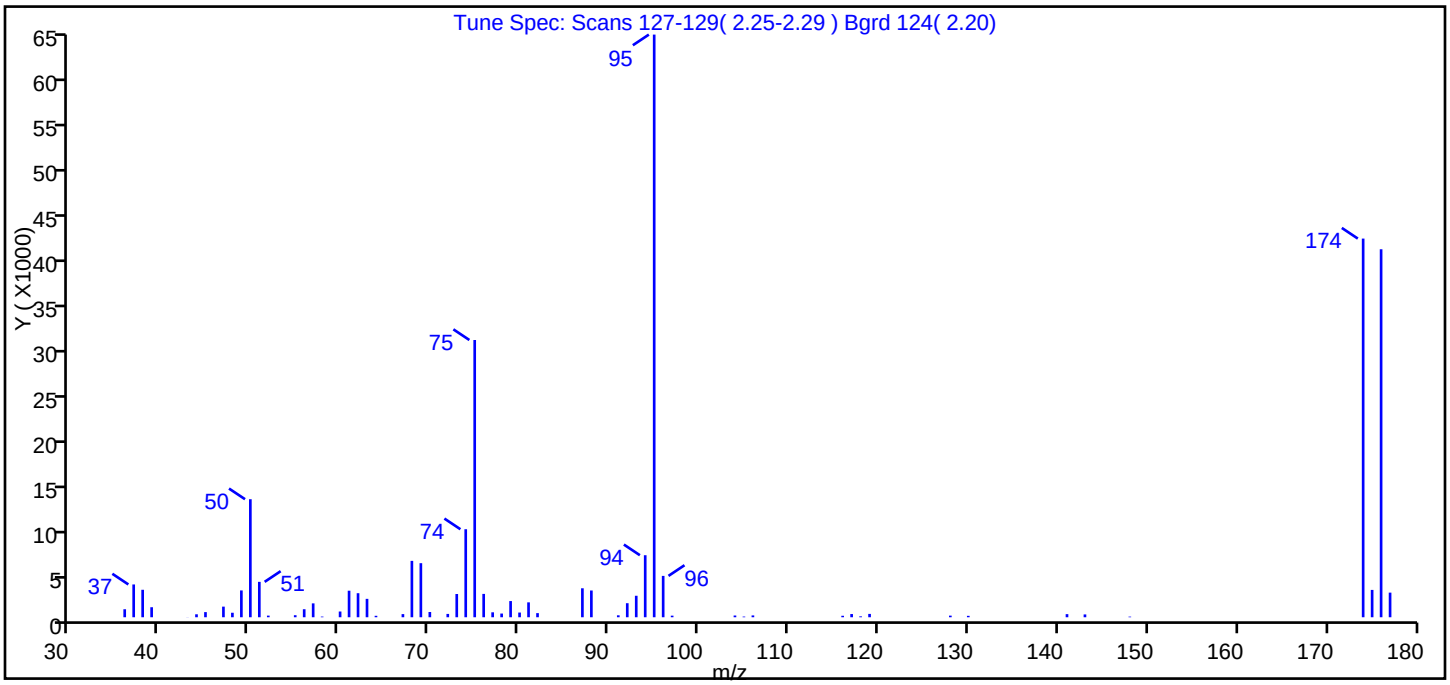
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 2.269 | 2.269 | 0.0 | 81 | 273812 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3797.D | | |
| Injection Date: | 01-May-2013 19:59:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 172220 | Lims Sample ID: | 1 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.26 |
| 75 | 30.00 - 60.00% of mass 95 | 47.58 |
| 96 | 5.00 - 9.00% of mass 95 | 7.10 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 64.99 |
| 175 | 5.00 - 9.00% of mass 174 | 4.69 ( 7.22) |
| 176 | 95.00 - 101.00% of mass 174 | 63.16 ( 97.18) |
| 177 | 5.00 - 9.00% of mass 176 | 4.23 ( 6.69) |

Data File: \\Denchrom\ChromData\VMS_Z\20130501-11178.b\Z3797.D\AQ_VMSZ_8260.rslt\spectra.d
Injection Date: 01-May-2013 19:59:30
Spectrum: Tune Spec: Scans 127-129( 2.25-2.29 ) Bgrd 124( 2.20)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 883 | 58.00 | 75 | 78.00 | 409 | 106.00 | 202 |
| 37.00 | 3615 | 60.00 | 633 | 79.00 | 1784 | 116.00 | 163 |
| 38.00 | 3028 | 61.00 | 2925 | 80.00 | 519 | 117.00 | 355 |
| 39.00 | 1105 | 62.00 | 2650 | 81.00 | 1642 | 118.00 | 99 |
| 43.00 | 11 | 63.00 | 2028 | 82.00 | 455 | 119.00 | 369 |
| 44.00 | 327 | 64.00 | 161 | 87.00 | 3193 | 128.00 | 178 |
| 45.00 | 567 | 67.00 | 347 | 88.00 | 2949 | 130.00 | 157 |
| 47.00 | 1171 | 68.00 | 6214 | 91.00 | 215 | 141.00 | 343 |
| 48.00 | 497 | 69.00 | 5959 | 92.00 | 1549 | 143.00 | 312 |
| 49.00 | 2956 | 70.00 | 578 | 93.00 | 2368 | 148.00 | 70 |
| 50.00 | 13008 | 72.00 | 368 | 94.00 | 6836 | 174.00 | 41728 |
| 51.00 | 3902 | 73.00 | 2562 | 95.00 | 64208 | 175.00 | 3013 |
| 52.00 | 181 | 74.00 | 9700 | 96.00 | 4558 | 176.00 | 40552 |
| 55.00 | 225 | 75.00 | 30552 | 97.00 | 176 | 177.00 | 2714 |
| 56.00 | 885 | 76.00 | 2574 | 104.00 | 192 | | |
| 57.00 | 1530 | 77.00 | 545 | 105.00 | 76 | | |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4053.D | | |
| Lims ID: | bfb | Client ID: | |
| Inject. Date: | 08-May-2013 18:11:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 173382 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\AQ_VMSZ_8260.m | | |
| Last Update: | 09-May-2013 06:27:46 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | XAWRK005 | | |
| First Level Reviewer: tinkhams | | Date: | 08-May-2013 18:19:59 |

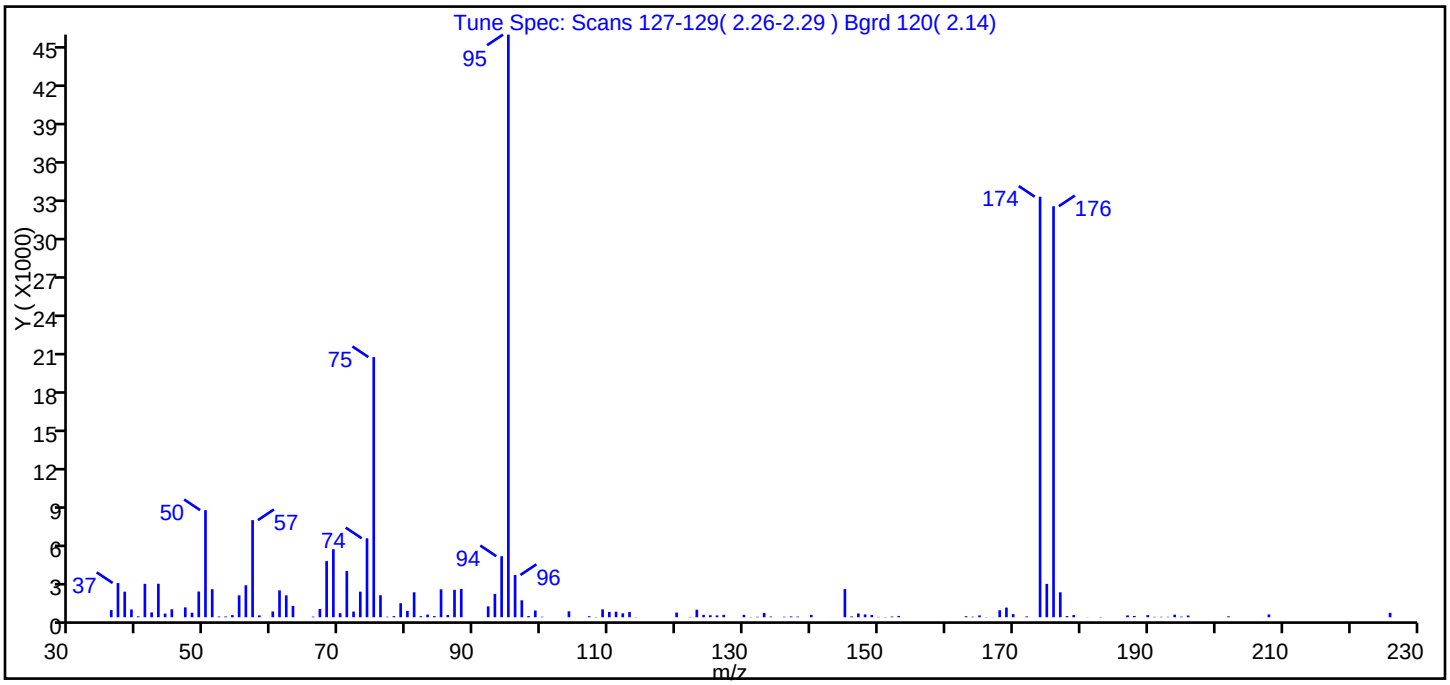
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 2.274 | 2.274 | 0.0 | 86 | 197201 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4053.D | | |
| Injection Date: | 08-May-2013 18:11:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173382 | Lims Sample ID: | 1 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.38 |
| 75 | 30.00 - 60.00% of mass 95 | 44.65 |
| 96 | 5.00 - 9.00% of mass 95 | 7.26 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 72.18 |
| 175 | 5.00 - 9.00% of mass 174 | 5.72 ( 7.93) |
| 176 | 95.00 - 101.00% of mass 174 | 70.54 ( 97.74) |
| 177 | 5.00 - 9.00% of mass 176 | 4.28 ( 6.07) |

Data File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4053.D\AQ_VMSZ_8260.rslt\spectra.d
Injection Date: 08-May-2013 18:11:30
Spectrum: Tune Spec: Scans 127-129( 2.26-2.29 ) Bgrd 120( 2.14)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 123

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 560 | 71.00 | 3618 | 110.00 | 418 | 163.00 | 80 |
| 37.00 | 2681 | 72.00 | 444 | 111.00 | 433 | 164.00 | 42 |
| 38.00 | 2003 | 73.00 | 2004 | 112.00 | 306 | 165.00 | 145 |
| 39.00 | 608 | 74.00 | 6181 | 113.00 | 410 | 166.00 | 15 |
| 40.00 | 71 | 75.00 | 20360 | 114.00 | 19 | 167.00 | 10 |
| 41.00 | 2616 | 76.00 | 1724 | 120.00 | 367 | 168.00 | 548 |
| 42.00 | 382 | 77.00 | 41 | 122.00 | 28 | 169.00 | 756 |
| 43.00 | 2624 | 78.00 | 87 | 123.00 | 589 | 170.00 | 244 |
| 44.00 | 288 | 79.00 | 1097 | 124.00 | 185 | 172.00 | 66 |
| 45.00 | 625 | 80.00 | 499 | 125.00 | 159 | 174.00 | 32912 |
| 47.00 | 774 | 81.00 | 1955 | 126.00 | 145 | 175.00 | 2609 |
| 48.00 | 355 | 82.00 | 82 | 127.00 | 186 | 176.00 | 32168 |
| 49.00 | 2016 | 83.00 | 208 | 130.00 | 188 | 177.00 | 1953 |
| 50.00 | 8382 | 84.00 | 90 | 131.00 | 19 | 178.00 | 93 |
| 51.00 | 2196 | 85.00 | 2187 | 132.00 | 38 | 179.00 | 173 |
| 52.00 | 57 | 86.00 | 176 | 133.00 | 340 | 181.00 | 11 |
| 53.00 | 62 | 87.00 | 2145 | 134.00 | 55 | 183.00 | 24 |
| 54.00 | 166 | 88.00 | 2219 | 136.00 | 37 | 187.00 | 145 |
| 55.00 | 1716 | 92.00 | 852 | 137.00 | 64 | 188.00 | 103 |
| 56.00 | 2503 | 93.00 | 1825 | 138.00 | 51 | 190.00 | 167 |
| 57.00 | 7602 | 94.00 | 4777 | 140.00 | 182 | 191.00 | 33 |
| 58.00 | 143 | 95.00 | 45600 | 143.00 | 5 | 192.00 | 34 |
| 60.00 | 454 | 96.00 | 3309 | 145.00 | 2206 | 193.00 | 35 |
| 61.00 | 2104 | 97.00 | 1328 | 146.00 | 63 | 194.00 | 202 |
| 62.00 | 1714 | 98.00 | 93 | 147.00 | 294 | 195.00 | 47 |
| 63.00 | 888 | 99.00 | 530 | 148.00 | 223 | 196.00 | 136 |
| 66.00 | 48 | 100.00 | 40 | 149.00 | 173 | 202.00 | 72 |
| 67.00 | 647 | 104.00 | 464 | 150.00 | 28 | 207.00 | 4 |
| 68.00 | 4396 | 107.00 | 81 | 151.00 | 19 | 208.00 | 220 |
| 69.00 | 5327 | 108.00 | 24 | 152.00 | 56 | 226.00 | 350 |
| 70.00 | 321 | 109.00 | 619 | 153.00 | 104 | | |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4173.D | | |
| Lims ID: | bfb | Client ID: | |
| Inject. Date: | 10-May-2013 19:02:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | bfb | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 173812 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m | | |
| Last Update: | 13-May-2013 16:34:30 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 10-May-2013 19:09:43 |

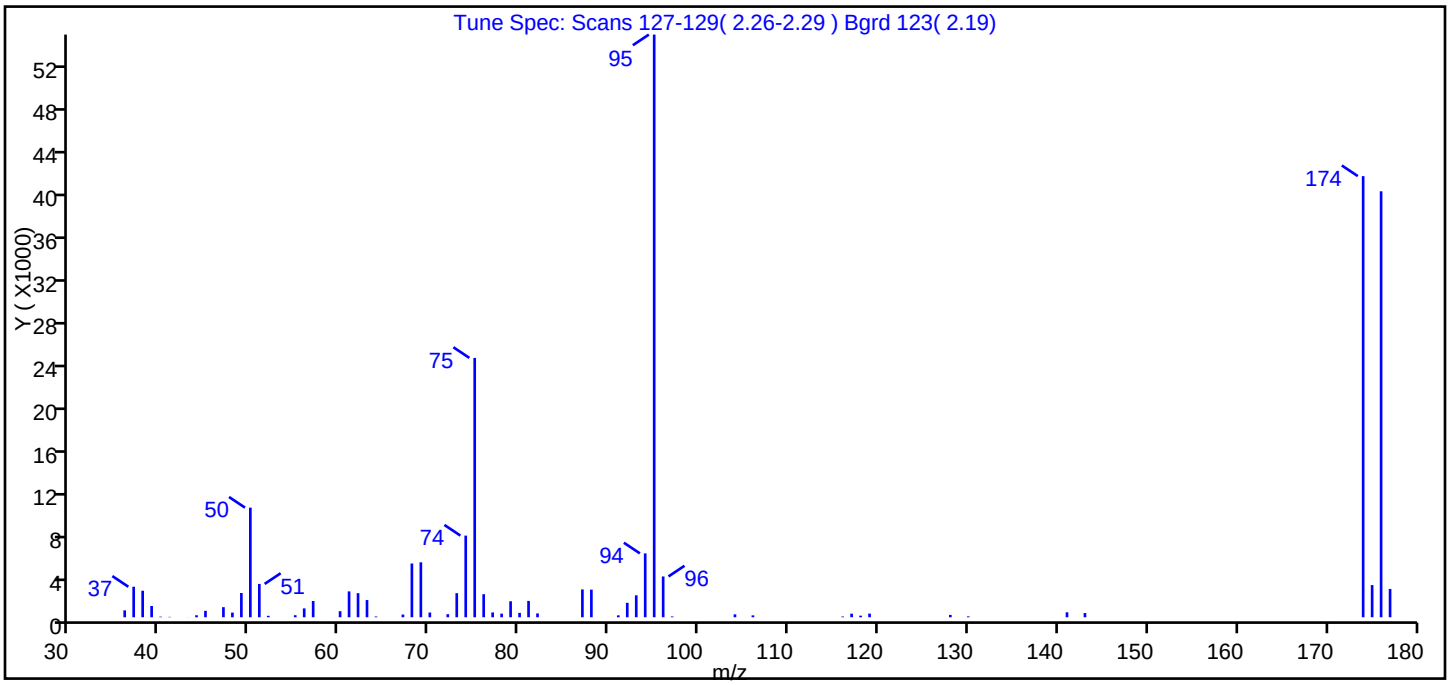
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 2.274 | 2.274 | 0.0 | 88 | 223652 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4173.D | | |
| Injection Date: | 10-May-2013 19:02:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 1 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.81 |
| 75 | 30.00 - 60.00% of mass 95 | 44.51 |
| 96 | 5.00 - 9.00% of mass 95 | 7.00 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 75.71 |
| 175 | 5.00 - 9.00% of mass 174 | 5.52 ( 7.29) |
| 176 | 95.00 - 101.00% of mass 174 | 73.11 ( 96.56) |
| 177 | 5.00 - 9.00% of mass 176 | 4.86 ( 6.65) |

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4173.D\AQ_VMSZ_8260.rslt\spectra.d
Injection Date: 10-May-2013 19:02:30
Spectrum: Tune Spec: Scans 127-129( 2.26-2.29 ) Bgrd 123( 2.19)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 61

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 650 | 56.00 | 838 | 77.00 | 454 | 106.00 | 179 |
| 37.00 | 2880 | 57.00 | 1537 | 78.00 | 342 | 116.00 | 70 |
| 38.00 | 2503 | 60.00 | 572 | 79.00 | 1509 | 117.00 | 338 |
| 39.00 | 1062 | 61.00 | 2442 | 80.00 | 414 | 118.00 | 150 |
| 40.00 | 55 | 62.00 | 2272 | 81.00 | 1542 | 119.00 | 343 |
| 41.00 | 36 | 63.00 | 1625 | 82.00 | 361 | 128.00 | 221 |
| 43.00 | 7 | 64.00 | 75 | 87.00 | 2626 | 130.00 | 84 |
| 44.00 | 189 | 67.00 | 257 | 88.00 | 2610 | 141.00 | 470 |
| 45.00 | 606 | 68.00 | 5073 | 91.00 | 181 | 143.00 | 396 |
| 47.00 | 952 | 69.00 | 5186 | 92.00 | 1362 | 174.00 | 41640 |
| 48.00 | 442 | 70.00 | 447 | 93.00 | 2071 | 175.00 | 3037 |
| 49.00 | 2290 | 72.00 | 288 | 94.00 | 6029 | 176.00 | 40208 |
| 50.00 | 10346 | 73.00 | 2272 | 95.00 | 55000 | 177.00 | 2672 |
| 51.00 | 3147 | 74.00 | 7707 | 96.00 | 3851 | | |
| 52.00 | 136 | 75.00 | 24480 | 97.00 | 75 | | |
| 55.00 | 194 | 76.00 | 2175 | 104.00 | 273 | | |

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4279.D | | |
| Lims ID: | bfb | Client ID: | |
| Inject. Date: | 13-May-2013 21:31:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | bfb | | |
| Misc. Info.: | | | |
| Operator: | tinkhams | Instrument ID: | VMS_Z |
| Purge Vol: | 20.000 mL | ALS Bottle#: | 100 |
| Lims Batch ID: | 174063 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m | | |
| Last Update: | 14-May-2013 16:49:10 | Calib Date: | 09-May-2013 02:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D | | |
| Limit Group: | MSV - 8260B Water and Solid | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Process Host: | DENPC293 | | |
| First Level Reviewer: tinkhams | | Date: | 13-May-2013 21:36:25 |

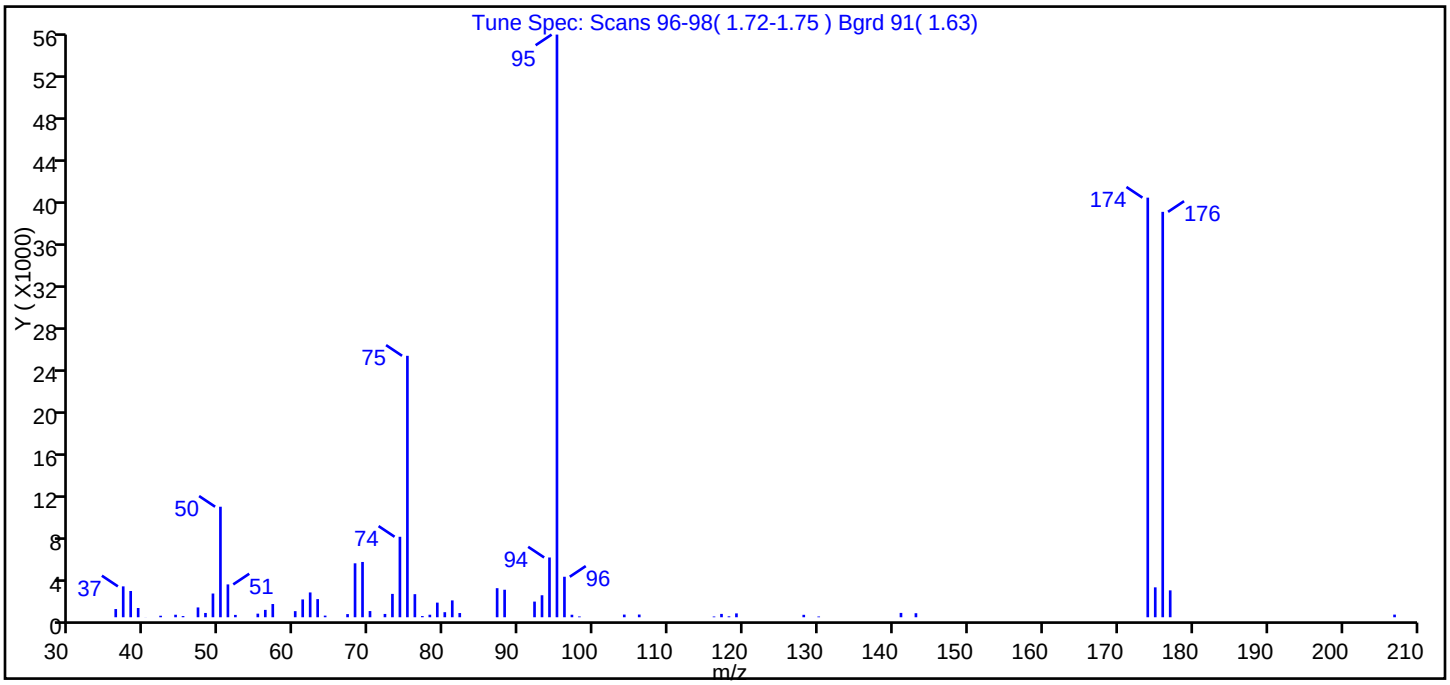
| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 4 BFB | 95 | 2.273 | 2.273 | 0.0 | 88 | 234584 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4279.D | | |
| Injection Date: | 13-May-2013 21:31:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 1 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |
| Tune Method: | BFB Method 8260 | | |

$ 4 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.97 |
| 75 | 30.00 - 60.00% of mass 95 | 44.87 |
| 96 | 5.00 - 9.00% of mass 95 | 6.95 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 72.01 |
| 175 | 5.00 - 9.00% of mass 174 | 5.13 ( 7.13) |
| 176 | 95.00 - 101.00% of mass 174 | 69.58 ( 96.62) |
| 177 | 5.00 - 9.00% of mass 176 | 4.62 ( 6.63) |

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4279.D\AQ_VMSZ_8260.rslt\spectra.d
Injection Date: 13-May-2013 21:31:30
Spectrum: Tune Spec: Scans 96-98( 1.72-1.75 ) Bgrd 91( 1.63)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 61

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 786 | 57.00 | 1268 | 78.00 | 243 | 116.00 | 74 |
| 37.00 | 2961 | 60.00 | 585 | 79.00 | 1403 | 117.00 | 322 |
| 38.00 | 2518 | 61.00 | 1709 | 80.00 | 486 | 118.00 | 89 |
| 39.00 | 887 | 62.00 | 2379 | 81.00 | 1616 | 119.00 | 371 |
| 40.00 | 7 | 63.00 | 1740 | 82.00 | 405 | 128.00 | 235 |
| 42.00 | 146 | 64.00 | 157 | 87.00 | 2788 | 130.00 | 73 |
| 44.00 | 242 | 67.00 | 303 | 88.00 | 2638 | 141.00 | 416 |
| 45.00 | 114 | 68.00 | 5171 | 92.00 | 1501 | 143.00 | 388 |
| 47.00 | 942 | 69.00 | 5300 | 93.00 | 2109 | 174.00 | 40224 |
| 48.00 | 412 | 70.00 | 594 | 94.00 | 5730 | 175.00 | 2867 |
| 49.00 | 2275 | 72.00 | 318 | 95.00 | 55856 | 176.00 | 38864 |
| 50.00 | 10596 | 73.00 | 2240 | 96.00 | 3883 | 177.00 | 2578 |
| 51.00 | 3149 | 74.00 | 7715 | 97.00 | 242 | 207.00 | 254 |
| 52.00 | 226 | 75.00 | 25064 | 98.00 | 75 | | |
| 55.00 | 346 | 76.00 | 2213 | 104.00 | 257 | | |
| 56.00 | 708 | 77.00 | 114 | 106.00 | 260 | | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-173812/6

Matrix: Water | Lab File ID: Z4178.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/10/2013 20:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 173812 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.80 | U | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.80 | U | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.6 | U | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.40 | U | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 123-91-1 | 1,4-Dioxane | 80 | U | 220 | 80 | 71 |
| 544-10-5 | 1-Chlorohexane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 3.2 | U | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 3.2 | U | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 6.4 | U | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 0.40 | U | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 0.80 | U | 2.0 | 0.80 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-173812/6

Matrix: Water | Lab File ID: Z4178.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/10/2013 20:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 173812 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 0.40 | U | 2.0 | 0.40 | 0.19 |
| 108-90-7 | Chlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 1.6 | U | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 0.80 | U | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 110-82-7 | Cyclohexane | 0.40 | U | 2.0 | 0.40 | 0.28 |
| 74-95-3 | Dibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 0.80 | U | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 0.20 | U | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 0.40 | U | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-20-9 | Methyl acetate | 2.0 | U | 5.0 | 2.0 | 1.6 |
| 1634-04-4 | Methyl tert-butyl ether | 0.40 | U | 5.0 | 0.40 | 0.25 |
| 108-87-2 | Methylcyclohexane | 0.40 | U | 2.0 | 0.40 | 0.36 |
| 75-09-2 | Methylene Chloride | 0.607 | J | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 0.80 | U | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 0.80 | U | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 0.80 | U | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 0.40 | U | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-173812/6

Matrix: Water Lab File ID: Z4178.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/10/2013 20:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 173812 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 99 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 97 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4178.D
Lims ID: mb Client ID:
Inject. Date: 10-May-2013 20:57:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: mb
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 5
Lims Batch ID: 173812 Lims Sample ID: 6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m
Last Update: 13-May-2013 16:34:33 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 11-May-2013 00:42:29

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.843 | 5.824 | 0.019 | 99 | 1387828 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.367 | 10.366 | 0.001 | 88 | 297433 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.439 | 14.437 | 0.002 | 97 | 521283 | 12.5 | |
| $ 4 BFB | 95 | | 2.274 | | | | | 1 |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.025 | 5.027 | -0.002 | 71 | 636493 | 8.75 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.477 | 5.462 | 0.015 | 81 | 269317 | 8.20 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.053 | 8.054 | -0.001 | 93 | 1293682 | 9.04 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.403 | 12.404 | -0.001 | 87 | 723115 | 8.88 | |
| 16 Dimethyl disulfide | 1 | | 0.000 | | | | | |
| 11 2,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 14 n-Heptane | 43 | | 0.000 | | | | | |
| 19 3-Methylhexane | 1 | | 0.000 | | | | | |
| 13 2,2-Dimethylpentane | 1 | | 0.000 | | | | | |
| 12 2,2,3-Trimethylbutane | 1 | | 0.000 | | | | | |
| 10 n-Nonyl Aldehyde | 1 | | 0.000 | | | | | |
| 18 2-Methylhexane | 1 | | 0.000 | | | | | |
| 20 2-Butoxyethanol TIC | 1 | | 0.000 | | | | | |
| 17 3,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 9 2,4-Dimethylpentane | 1 | | 0.000 | | | | | |
| 15 1,3,5-Trichlorobenzene | 180 | | 0.000 | | | | | |
| 21 2,3-dichloro-1-propene TIC | 75 | | 1.000 | | | | | |
| 22 Dichloroacetonitrile TIC | 74 | | 1.000 | | | | | |
| 23 Chlorotrifluoroethene | 116 | | 1.734 | | | | | |
| 24 Dichlorodifluoromethane | 85 | | 1.755 | | | | | |
| 34 3-Ethylpentane | 1 | | 1.795 | | | | | |
| 25 Chloromethane | 50 | | 1.842 | | | | | 19 |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | | 1.842 | | | | | |
| 28 Vinyl chloride | 62 | | 1.946 | | | | | |
| 27 2-Chloro-1,1,1-Trifluoroethane | 118 | | 2.013 | | | | | |
| 29 Ethylene oxide | 43 | | 2.138 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 30 Bromomethane | 94 | | 2.155 | | | | | 19 |
| 31 Chloroethane | 64 | | 2.190 | | | | | |
| 32 Dichlorofluoromethane | 67 | | 2.364 | | | | | |
| 33 Trichlorofluoromethane | 101 | | 2.399 | | | | | |
| 35 Ethanol | 45 | | 2.503 | | | | | 19 |
| 37 Isopropyl alcohol | 45 | | 2.504 | | | | | 19 |
| 36 Ethyl ether | 59 | | 2.521 | | | | | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | | 2.573 | | | | | |
| 40 Propene oxide | 58 | | 2.608 | | | | | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | | 2.608 | | | | | |
| 41 Acrolein | 56 | | 2.677 | | | | | |
| 43 1,1-Dichloroethene | 96 | | 2.729 | | | | | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 2.747 | | | | | |
| 42 Acetone | 43 | | 2.799 | | | | | |
| 45 Iodomethane | 142 | | 2.886 | | | | | 19 |
| 46 Carbon disulfide | 76 | | 2.921 | | | | | |
| 49 Methyl acetate | 43 | | 3.040 | | | | | |
| 48 3-Chloro-1-propene | 41 | | 3.043 | | | | | |
| 50 Methylene Chloride | 84 | 3.181 | 3.164 | 0.017 | 94 | 77048 | 0.6074 | |
| 47 Acetonitrile | 41 | | 3.182 | | | | | |
| 51 2-Methyl-2-propanol | 59 | | 3.251 | | | | | |
| 53 trans-1,2-Dichloroethene | 96 | | 3.373 | | | | | |
| 54 Methyl tert-butyl ether | 73 | | 3.374 | | | | | |
| 52 Acrylonitrile | 53 | | 3.460 | | | | | |
| 55 Hexane | 57 | | 3.565 | | | | | |
| 58 Isopropyl ether | 87 | | 3.825 | | | | | |
| 56 1,1-Dichloroethane | 63 | | 3.825 | | | | | |
| 57 Vinyl acetate | 43 | | 3.840 | | | | | |
| 59 2-Chloro-1,3-butadiene | 53 | | 3.878 | | | | | |
| 60 Tert-butyl ethyl ether | 59 | | 4.209 | | | | | |
| 63 2,2-Dichloropropane | 77 | | 4.452 | | | | | 19 |
| 62 cis-1,2-Dichloroethene | 96 | | 4.469 | | | | | |
| 65 Ethyl acetate | 43 | | 4.484 | | | | | |
| 61 2-Butanone (MEK) | 43 | | 4.487 | | | | | |
| 64 Propionitrile | 54 | | 4.661 | | | | | |
| 67 sec-Butyl Alcohol | 45 | | 4.679 | | | | | |
| 68 Chlorobromomethane | 128 | | 4.748 | | | | | |
| 70 Tetrahydrofuran | 42 | | 4.766 | | | | | |
| 66 Methacrylonitrile | 41 | | 4.782 | | | | | |
| 69 Chloroform | 83 | | 4.817 | | | | | |
| 72 Cyclohexane | 56 | | 5.009 | | | | | |
| 71 1,1,1-Trichloroethane | 97 | | 5.026 | | | | | |
| 74 Carbon tetrachloride | 117 | | 5.183 | | | | | |
| 73 1,1-Dichloropropene | 75 | | 5.200 | | | | | |
| 81 Propene oxide TIC | 58 | | 5.334 | | | | | |
| 75 Isobutyl alcohol | 41 | | 5.409 | | | | | |
| 77 Benzene | 78 | | 5.461 | | | | | |
| 76 1,2-Dichloroethane | 62 | | 5.566 | | | | | |
| 79 Tert-amyl methyl ether | 73 | | 5.583 | | | | | |
| 78 n-Butanol | 56 | | 6.314 | | | | | |
| 80 Trichloroethene | 95 | | 6.314 | | | | | |
| 84 Methylcyclohexane | 55 | | 6.488 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 82 2-Pentanone | 43 | | 6.627 | | | | | |
| 83 1,2-Dichloropropane | 63 | | 6.679 | | | | | |
| 86 Methyl methacrylate | 100 | | 6.819 | | | | | |
| 85 Dibromomethane | 93 | | 6.836 | | | | | |
| 87 1,4-Dioxane | 88 | | 6.871 | | | | | |
| 88 Dichlorobromomethane | 83 | | 7.045 | | | | | |
| 89 2-Nitropropane | 41 | | 7.498 | | | | | |
| 90 2-Chloroethyl vinyl ether | 63 | | 7.515 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 7.723 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 7.984 | | | | | |
| 93 Toluene | 91 | | 8.141 | | | | | 19 |
| 94 trans-1,3-Dichloropropene | 75 | | 8.611 | | | | | |
| 95 Ethyl methacrylate | 69 | | 8.698 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 8.889 | | | | | |
| 97 Tetrachloroethene | 164 | | 8.941 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.150 | | | | | |
| 99 2-Hexanone | 43 | | 9.289 | | | | | |
| 101 Tetrahydrothiophene | 60 | | 9.377 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.446 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.637 | | | | | |
| 104 1-Chlorohexane | 91 | | 10.403 | | | | | |
| 103 Chlorobenzene | 112 | | 10.420 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 10.577 | | | | | |
| 106 Ethylbenzene | 106 | | 10.577 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.786 | | | | | |
| 108 o-Xylene | 106 | | 11.464 | | | | | |
| 109 Styrene | 104 | | 11.499 | | | | | 19 |
| 110 Bromoform | 173 | | 11.812 | | | | | |
| 111 Isopropylbenzene | 105 | | 12.091 | | | | | |
| 112 Cyclohexanone | 55 | | 12.334 | | | | | |
| 113 cis-1,4-Dichloro-2-butene | 53 | | 12.335 | | | | | |
| 114 Bromobenzene | 156 | | 12.613 | | | | | |
| 115 1,1,2,2-Tetrachloroethane | 83 | | 12.752 | | | | | |
| 118 N-Propylbenzene | 120 | | 12.804 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 12.822 | | | | | |
| 117 trans-1,4-Dichloro-2-butene | 53 | | 12.874 | | | | | |
| 119 2-Chlorotoluene | 126 | | 12.961 | | | | | |
| 121 1,3,5-Trimethylbenzene | 105 | | 13.152 | | | | | 19 |
| 120 4-Chlorotoluene | 126 | | 13.187 | | | | | |
| 122 tert-Butylbenzene | 119 | | 13.692 | | | | | 19 |
| 123 1,2,4-Trimethylbenzene | 105 | | 13.813 | | | | | 19 |
| 124 sec-Butylbenzene | 134 | | 14.092 | | | | | |
| 125 1,3-Dichlorobenzene | 146 | | 14.301 | | | | | 19 |
| 126 4-Isopropyltoluene | 119 | | 14.370 | | | | | 19 |
| 127 1,4-Dichlorobenzene | 146 | | 14.475 | | | | | |
| 128 1,2,3-Trimethylbenzene | 105 | | 14.545 | | | | | |
| 130 n-Butylbenzene | 91 | | 15.101 | | | | | |
| 129 1,2-Dichlorobenzene | 146 | | 15.136 | | | | | 19 |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 16.441 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 17.363 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 17.502 | | | | | |
| 134 Naphthalene | 128 | | 17.607 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.832 | 17.833 | -0.001 | 35 | 8705 | 0.1695 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 0 | 7 |
| S 141 Xylenes, Total | 106 | | | | 0 | | 0 | 7 |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 0 | 7 |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 0 | 7 |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 0 | 7 |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 0 | 7 |
| S 138 Total BTEX | 1 | | 0.000 | | | | | 7 |

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

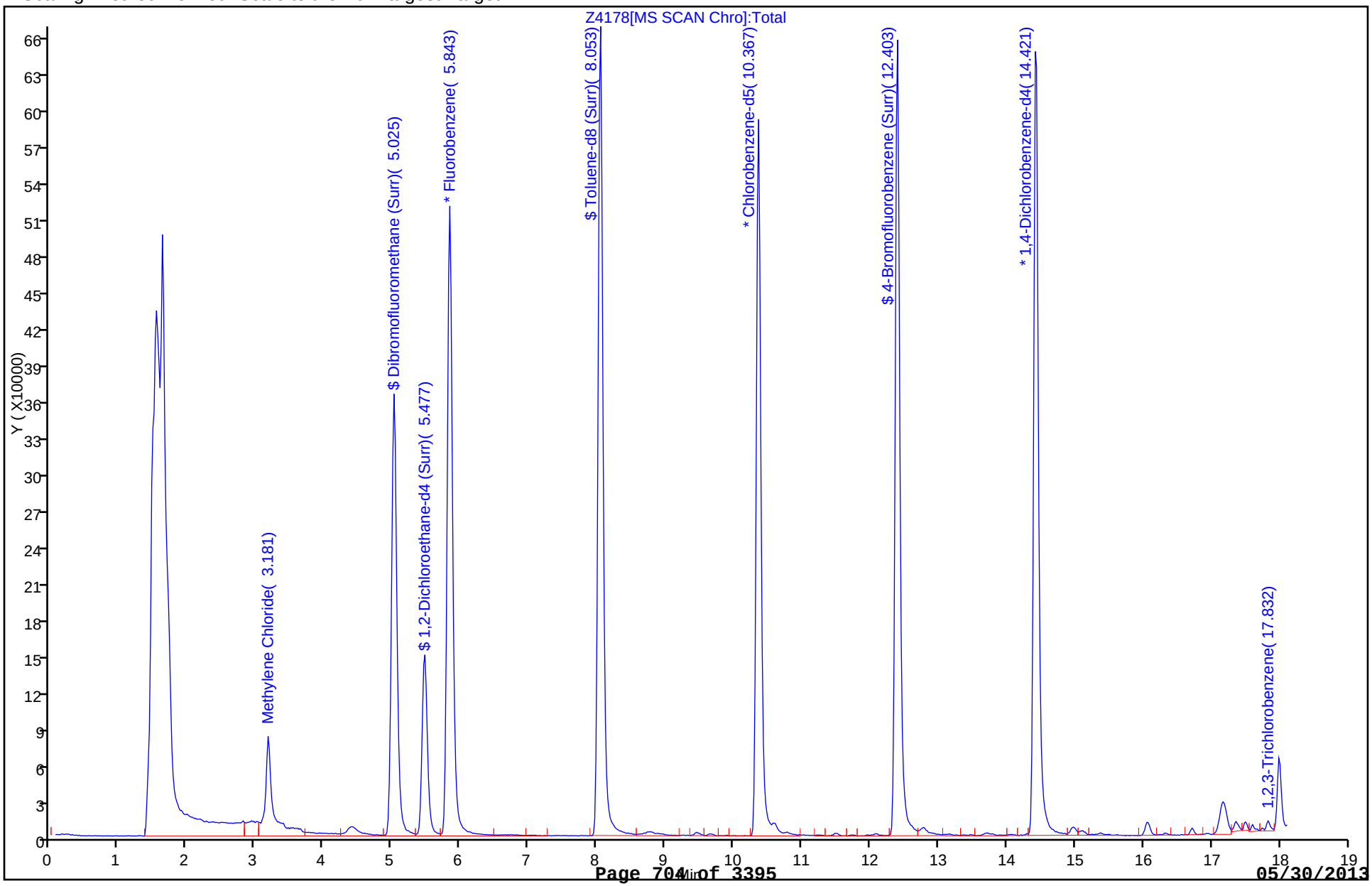
Report Date: 13-May-2013 16:34:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4178.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 20:57:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 6 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



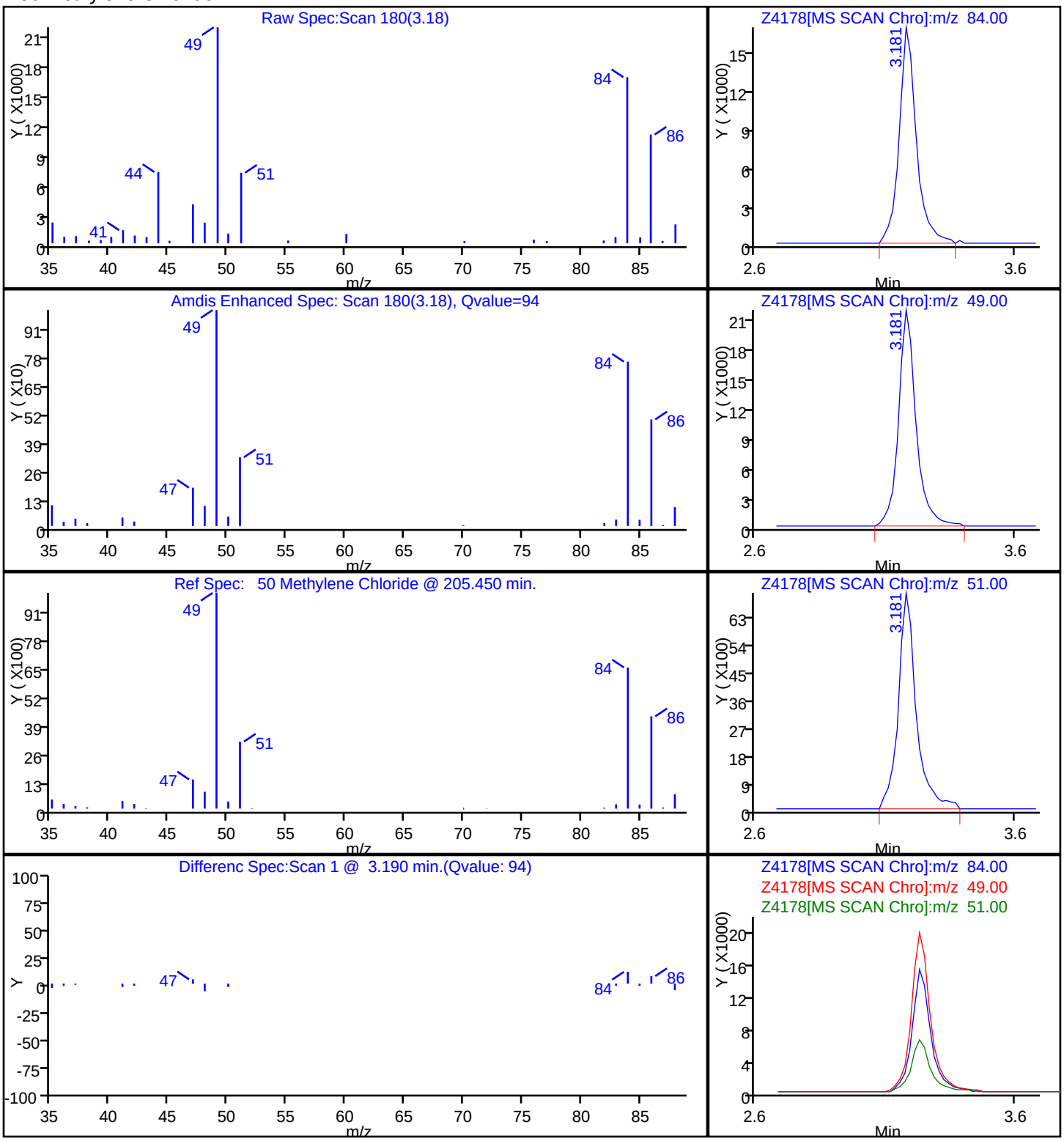
Report Date: 13-May-2013 16:34:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4178.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 20:57:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 6 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

50 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-174063/35

Matrix: Water | Lab File ID: Z4284.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/13/2013 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174063 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.80 | U | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.80 | U | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.6 | U | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.40 | U | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 123-91-1 | 1,4-Dioxane | 80 | U | 220 | 80 | 71 |
| 544-10-5 | 1-Chlorohexane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 3.2 | U | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 3.2 | U | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 6.4 | U | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 0.40 | U | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 0.80 | U | 2.0 | 0.80 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-174063/35

Matrix: Water | Lab File ID: Z4284.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/13/2013 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174063 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 0.40 | U | 2.0 | 0.40 | 0.19 |
| 108-90-7 | Chlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 1.6 | U | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 0.80 | U | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 110-82-7 | Cyclohexane | 0.40 | U | 2.0 | 0.40 | 0.28 |
| 74-95-3 | Dibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 0.80 | U | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 0.20 | U | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 0.40 | U | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-20-9 | Methyl acetate | 2.0 | U | 5.0 | 2.0 | 1.6 |
| 1634-04-4 | Methyl tert-butyl ether | 0.40 | U | 5.0 | 0.40 | 0.25 |
| 108-87-2 | Methylcyclohexane | 0.40 | U | 2.0 | 0.40 | 0.36 |
| 75-09-2 | Methylene Chloride | 0.40 | U | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 0.80 | U | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 0.230 | J | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 0.80 | U | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 0.40 | U | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-174063/35

Matrix: Water Lab File ID: Z4284.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/13/2013 23:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 174063 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 95 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4284.D
Lims ID: mb Client ID:
Inject. Date: 13-May-2013 23:21:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: mb
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 5
Lims Batch ID: 174063 Lims Sample ID: 35
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m
Last Update: 14-May-2013 16:48:47 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 14-May-2013 00:16:42

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.829 | 5.841 | -0.012 | 98 | 1444825 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.370 | 10.365 | 0.005 | 89 | 306603 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.425 | 14.436 | -0.011 | 97 | 549946 | 12.5 | |
| $ 4 BFB | 95 | | 2.273 | | | | | 1 |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.011 | 5.023 | -0.012 | 66 | 649513 | 8.57 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.463 | 5.475 | -0.012 | 86 | 282441 | 8.26 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.039 | 8.050 | -0.011 | 93 | 1345587 | 9.12 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.406 | 12.401 | 0.006 | 86 | 760287 | 8.85 | |
| 12 2,2,3-Trimethylbutane | 1 | | 0.000 | | | | | |
| 10 n-Nonyl Aldehyde | 1 | | 0.000 | | | | | |
| 13 2,2-Dimethylpentane | 1 | | 0.000 | | | | | |
| 14 n-Heptane | 43 | | 0.000 | | | | | |
| 19 3-Methylhexane | 1 | | 0.000 | | | | | |
| 9 2,4-Dimethylpentane | 1 | | 0.000 | | | | | |
| 15 1,3,5-Trichlorobenzene | 180 | | 0.000 | | | | | |
| 17 3,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 18 2-Methylhexane | 1 | | 0.000 | | | | | |
| 20 2-Butoxyethanol TIC | 1 | | 0.000 | | | | | |
| 16 Dimethyl disulfide | 1 | | 0.000 | | | | | |
| 11 2,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 21 2,3-dichloro-1-propene TIC | 75 | | 1.000 | | | | | |
| 22 Dichloroacetonitrile TIC | 74 | | 1.000 | | | | | |
| 23 Chlorotrifluoroethene | 116 | | 1.734 | | | | | |
| 24 Dichlorodifluoromethane | 85 | | 1.757 | | | | | |
| 34 3-Ethylpentane | 1 | | 1.795 | | | | | |
| 25 Chloromethane | 50 | | 1.844 | | | | | 19 |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | | 1.856 | | | | | |
| 28 Vinyl chloride | 62 | | 1.949 | | | | | |
| 27 2-Chloro-1,1,1-Trifluoroethane | 118 | | 2.013 | | | | | |
| 29 Ethylene oxide | 43 | | 2.134 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 30 Bromomethane | 94 | | 2.158 | | | | | 19 |
| 31 Chloroethane | 64 | | 2.192 | | | | | |
| 32 Dichlorofluoromethane | 67 | | 2.360 | | | | | |
| 33 Trichlorofluoromethane | 101 | | 2.401 | | | | | |
| 35 Ethanol | 45 | | 2.488 | | | | | |
| 37 Isopropyl alcohol | 45 | | 2.534 | | | | | |
| 36 Ethyl ether | 59 | | 2.534 | | | | | |
| 38 1,2-Dichloro-1,1,2-trifluoroetha | 117 | | 2.587 | | | | | |
| 40 Propene oxide | 58 | | 2.621 | | | | | |
| 39 1,1,1-Trifluoro-2,2-dichloroetha | 83 | | 2.621 | | | | | |
| 41 Acrolein | 56 | | 2.680 | | | | | |
| 43 1,1-Dichloroethene | 96 | | 2.714 | | | | | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 2.761 | | | | | |
| 42 Acetone | 43 | 2.819 | 2.801 | 0.018 | 86 | 5917 | 1.68 | |
| 45 Iodomethane | 142 | | 2.871 | | | | | 19 |
| 46 Carbon disulfide | 76 | | 2.935 | | | | | |
| 48 3-Chloro-1-propene | 41 | | 3.039 | | | | | |
| 49 Methyl acetate | 43 | | 3.056 | | | | | |
| 50 Methylene Chloride | 84 | | 3.167 | | | | | |
| 47 Acetonitrile | 41 | | 3.167 | | | | | |
| 51 2-Methyl-2-propanol | 59 | | 3.254 | | | | | |
| 53 trans-1,2-Dichloroethene | 96 | | 3.376 | | | | | |
| 54 Methyl tert-butyl ether | 73 | | 3.387 | | | | | |
| 52 Acrylonitrile | 53 | | 3.445 | | | | | |
| 55 Hexane | 57 | | 3.561 | | | | | |
| 58 Isopropyl ether | 87 | | 3.811 | | | | | |
| 56 1,1-Dichloroethane | 63 | | 3.828 | | | | | |
| 57 Vinyl acetate | 43 | | 3.839 | | | | | |
| 59 2-Chloro-1,3-butadiene | 53 | | 3.880 | | | | | |
| 60 Tert-butyl ethyl ether | 59 | | 4.222 | | | | | |
| 62 cis-1,2-Dichloroethene | 96 | | 4.454 | | | | | |
| 63 2,2-Dichloropropane | 77 | | 4.454 | | | | | 19 |
| 61 2-Butanone (MEK) | 43 | | 4.489 | | | | | |
| 65 Ethyl acetate | 43 | | 4.501 | | | | | |
| 64 Propionitrile | 54 | | 4.646 | | | | | |
| 67 sec-Butyl Alcohol | 45 | | 4.692 | | | | | |
| 68 Chlorobromomethane | 128 | | 4.750 | | | | | |
| 70 Tetrahydrofuran | 42 | | 4.779 | | | | | |
| 66 Methacrylonitrile | 41 | | 4.785 | | | | | |
| 69 Chloroform | 83 | | 4.820 | | | | | |
| 72 Cyclohexane | 56 | | 5.023 | | | | | |
| 71 1,1,1-Trichloroethane | 97 | | 5.029 | | | | | |
| 74 Carbon tetrachloride | 117 | | 5.185 | | | | | |
| 73 1,1-Dichloropropene | 75 | | 5.203 | | | | | |
| 81 Propene oxide TIC | 58 | | 5.334 | | | | | |
| 75 Isobutyl alcohol | 41 | | 5.411 | | | | | |
| 77 Benzene | 78 | | 5.464 | | | | | |
| 76 1,2-Dichloroethane | 62 | | 5.568 | | | | | |
| 79 Tert-amyl methyl ether | 73 | | 5.597 | | | | | |
| 78 n-Butanol | 56 | | 6.316 | | | | | |
| 80 Trichloroethene | 95 | | 6.316 | | | | | 19 |
| 84 Methylcyclohexane | 55 | | 6.502 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 82 2-Pentanone | 43 | | 6.641 | | | | | 19 |
| 83 1,2-Dichloropropane | 63 | | 6.682 | | | | | |
| 86 Methyl methacrylate | 100 | | 6.832 | | | | | |
| 85 Dibromomethane | 93 | | 6.838 | | | | | |
| 87 1,4-Dioxane | 88 | | 6.873 | | | | | |
| 88 Dichlorobromomethane | 83 | | 7.065 | | | | | |
| 89 2-Nitropropane | 41 | | 7.511 | | | | | |
| 90 2-Chloroethyl vinyl ether | 63 | | 7.528 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 7.726 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 7.987 | | | | | |
| 93 Toluene | 91 | | 8.161 | | | | | |
| 94 trans-1,3-Dichloropropene | 75 | | 8.613 | | | | | |
| 95 Ethyl methacrylate | 69 | | 8.712 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 8.892 | | | | | |
| 97 Tetrachloroethene | 164 | | 8.961 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.153 | | | | | |
| 99 2-Hexanone | 43 | | 9.292 | | | | | 19 |
| 101 Tetrahydrothiophene | 60 | | 9.390 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.448 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.640 | | | | | |
| 104 1-Chlorohexane | 91 | | 10.405 | | | | | |
| 103 Chlorobenzene | 112 | | 10.423 | | | | | 19 |
| 106 Ethylbenzene | 106 | | 10.579 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 10.597 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.788 | | | | | |
| 108 o-Xylene | 106 | | 11.467 | | | | | |
| 109 Styrene | 104 | | 11.519 | | | | | 19 |
| 110 Bromoform | 173 | | 11.815 | | | | | |
| 111 Isopropylbenzene | 105 | | 12.093 | | | | | |
| 113 cis-1,4-Dichloro-2-butene | 53 | | 12.348 | | | | | |
| 112 Cyclohexanone | 55 | | 12.354 | | | | | |
| 114 Bromobenzene | 156 | | 12.633 | | | | | |
| 115 1,1,2,2-Tetrachloroethane | 83 | | 12.755 | | | | | |
| 118 N-Propylbenzene | 120 | | 12.824 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 12.824 | | | | | |
| 117 trans-1,4-Dichloro-2-butene | 53 | | 12.870 | | | | | |
| 119 2-Chlorotoluene | 126 | | 12.963 | | | | | |
| 121 1,3,5-Trimethylbenzene | 105 | | 13.155 | | | | | 19 |
| 120 4-Chlorotoluene | 126 | | 13.190 | | | | | |
| 122 tert-Butylbenzene | 119 | | 13.694 | | | | | 19 |
| 123 1,2,4-Trimethylbenzene | 105 | | 13.816 | | | | | |
| 124 sec-Butylbenzene | 134 | | 14.094 | | | | | |
| 125 1,3-Dichlorobenzene | 146 | | 14.303 | | | | | |
| 126 4-Isopropyltoluene | 119 | | 14.373 | | | | | 19 |
| 127 1,4-Dichlorobenzene | 146 | | 14.477 | | | | | |
| 128 1,2,3-Trimethylbenzene | 105 | | 14.558 | | | | | 19 |
| 130 n-Butylbenzene | 91 | | 15.121 | | | | | |
| 129 1,2-Dichlorobenzene | 146 | | 15.138 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 16.443 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 17.366 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 17.505 | | | | | |
| 134 Naphthalene | 128 | 17.609 | 17.609 | 0.0 | 51 | 15758 | 0.2298 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.835 | 17.836 | -0.001 | 36 | 8877 | 0.1639 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 0 | 7 |
| S 141 Xylenes, Total | 106 | | | | 0 | | 0 | 7 |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 0 | 7 |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 0 | 7 |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 0 | 7 |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 0 | 7 |
| S 138 Total BTEX | 1 | | 0.000 | | | | | 7 |

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

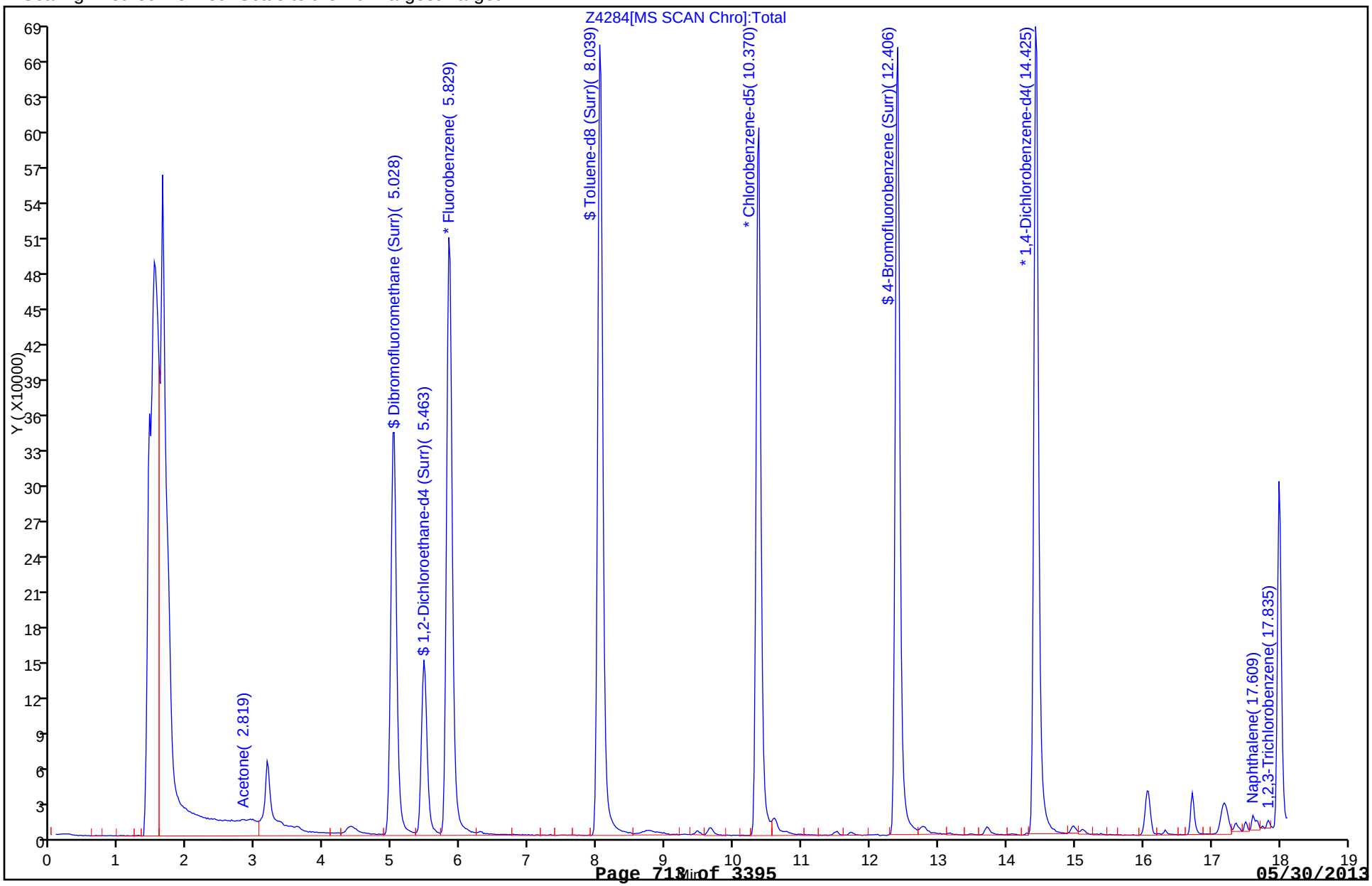
Report Date: 14-May-2013 16:48:49 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4284.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-May-2013 23:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 35 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



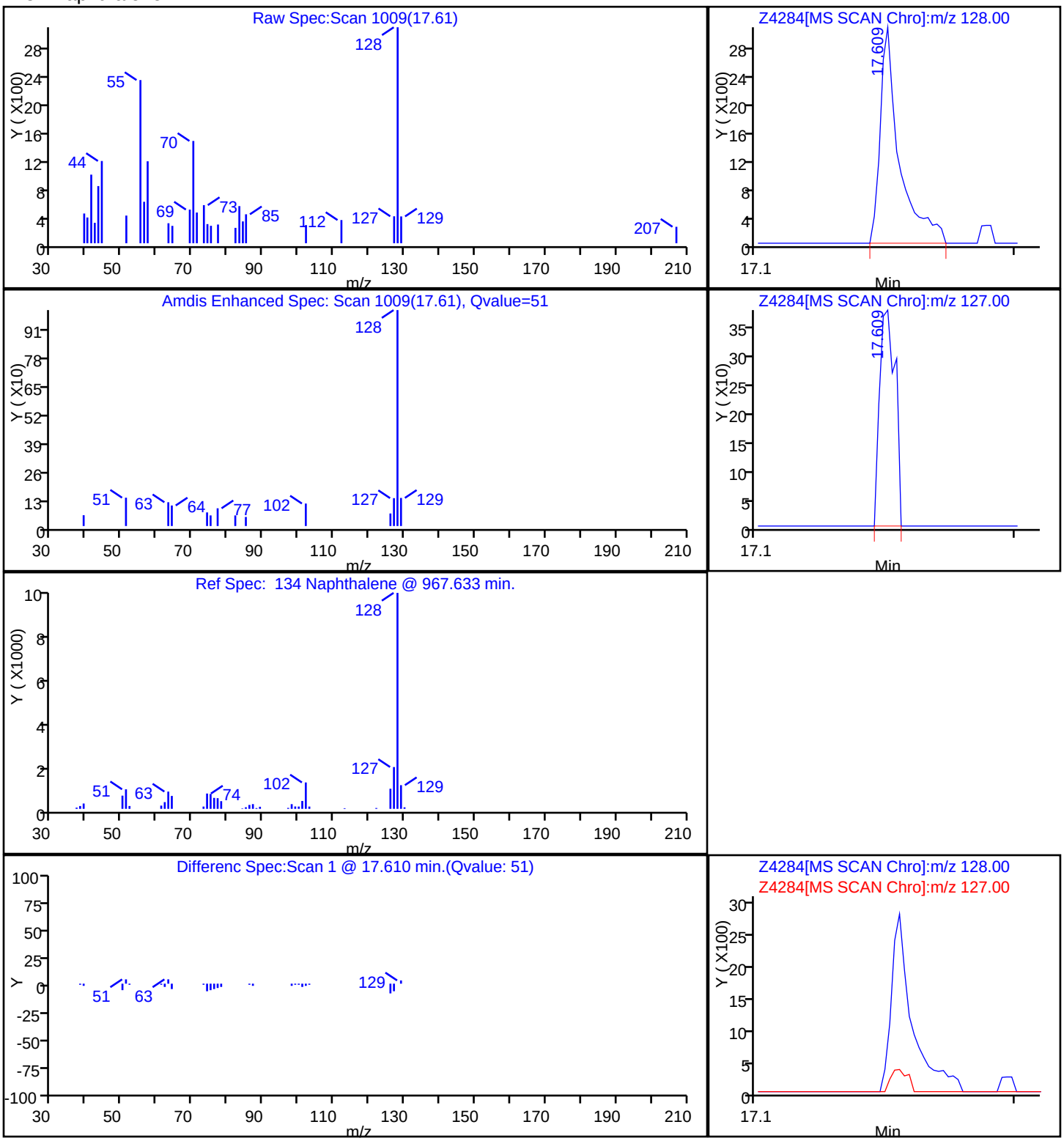
Report Date: 14-May-2013 16:48:49 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4284.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-May-2013 23:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 35 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

134 Naphthalene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-174465/6

Matrix: Water | Lab File ID: g2_8398.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/15/2013 21:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174465 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.8 | U | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.80 | U | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.80 | U | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.6 | U | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.40 | U | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 123-91-1 | 1,4-Dioxane | 80 | U | 220 | 80 | 71 |
| 544-10-5 | 1-Chlorohexane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 3.2 | U | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 3.2 | U | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 3.2 | U | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 6.4 | U | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 0.40 | U | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 0.80 | U | 2.0 | 0.80 | 0.45 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-174465/6

Matrix: Water | Lab File ID: g2_8398.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/15/2013 21:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174465 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 0.40 | U | 2.0 | 0.40 | 0.19 |
| 108-90-7 | Chlorobenzene | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 1.6 | U | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 0.80 | U | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 110-82-7 | Cyclohexane | 0.40 | U | 2.0 | 0.40 | 0.28 |
| 74-95-3 | Dibromomethane | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 0.20 | U | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 0.80 | U | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 0.20 | U | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 0.40 | U | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-20-9 | Methyl acetate | 2.0 | U | 5.0 | 2.0 | 1.6 |
| 1634-04-4 | Methyl tert-butyl ether | 0.40 | U | 5.0 | 0.40 | 0.25 |
| 108-87-2 | Methylcyclohexane | 0.40 | U | 2.0 | 0.40 | 0.36 |
| 75-09-2 | Methylene Chloride | 0.40 | U | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 0.80 | U | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 0.80 | U | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 0.40 | U | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 0.40 | U | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 0.40 | U | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | U | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.40 | U | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 0.20 | U | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 0.80 | U | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 0.40 | U | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-174465/6

Matrix: Water Lab File ID: g2_8398.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/15/2013 21:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 174465 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 117 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 114 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 104 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8398.D
Lims ID: MB Client ID:
Inject. Date: 15-May-2013 21:12:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: MB
Misc. Info.:
Operator: moanm Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 7
Lims Batch ID: 174465 Lims Sample ID: 6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m
Last Update: 16-May-2013 17:07:56 Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC371

First Level Reviewer: moanm Date: 15-May-2013 21:31:48

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1770779 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 85 | 363804 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.752 | -0.007 | 96 | 488026 | 12.5 | |
| $ 4 BFB | 95 | | 4.674 | | | | | 1 |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.090 | 7.091 | 0.0 | 58 | 358367 | 14.2 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 98 | 314113 | 14.6 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 93 | 1679868 | 13.0 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 88 | 497683 | 12.1 | |
| 10 n-Nonyl Aldehyde | 1 | | 0.000 | | | | | |
| 13 2,2-Dimethylpentane | 1 | | 0.000 | | | | | |
| 9 2,4-Dimethylpentane | 1 | | 0.000 | | | | | |
| 20 2-Methylhexane | 1 | | 0.000 | | | | | |
| 12 2,2,3-Trimethylbutane | 1 | | 0.000 | | | | | |
| 16 1,3,5-Trichlorobenzene | 180 | | 0.000 | | | | | |
| 14 n-Heptane | 43 | | 0.000 | | | | | |
| 15 Dimethyl disulfide | 1 | | 0.000 | | | | | |
| 18 3,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 11 2,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 21 2-Butoxyethanol TIC | 1 | | 0.000 | | | | | |
| 19 3-Methylhexane | 1 | | 0.000 | | | | | |
| 17 3-Ethylpentane | 1 | | 0.000 | | | | | |
| 22 2,3-dichloro-1-propene TIC | 75 | | 1.000 | | | | | |
| 23 Dichloroacetonitrile TIC | 74 | | 1.000 | | | | | |
| 24 Chlorotrifluoroethene | 116 | | 3.923 | | | | | |
| 25 Dichlorodifluoromethane | 85 | | 3.951 | | | | | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | | 4.105 | | | | | |
| 27 Chloromethane | 50 | | 4.160 | | | | | |
| 28 Vinyl chloride | 62 | | 4.300 | | | | | |
| 29 2-Chloro-1,1,1-Trifluoroethane | 118 | | 4.370 | | | | | |
| 30 Ethylene oxide | 43 | | 4.621 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 31 Bromomethane | 94 | | 4.677 | | | | | |
| 32 Chloroethane | 64 | | 4.747 | | | | | |
| 33 Dichlorofluoromethane | 67 | | 4.887 | | | | | |
| 34 Ethanol | 45 | | 5.012 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.026 | | | | | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | | 5.138 | | | | | |
| 38 Ethyl ether | 59 | | 5.166 | | | | | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | | 5.180 | | | | | |
| 39 Propene oxide | 58 | | 5.264 | | | | | |
| 41 Acrolein | 56 | | 5.292 | | | | | |
| 40 Propene oxide TIC | 58 | 5.389 | 5.334 | 0.055 | 1 | 1099 | 0 | |
| 42 Acetone | 43 | 5.389 | 5.389 | 0.0 | 70 | 5754 | 1.73 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.417 | | | | | |
| 44 Isopropyl alcohol | 45 | | 5.417 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.445 | | | | | |
| 47 Iodomethane | 142 | | 5.613 | | | | | |
| 46 Acetonitrile | 41 | | 5.627 | | | | | |
| 48 Methyl acetate | 43 | | 5.627 | | | | | |
| 49 3-Chloro-1-propene | 41 | | 5.697 | | | | | |
| 50 Carbon disulfide | 76 | | 5.725 | | | | | |
| 51 2-Methyl-2-propanol | 59 | | 5.739 | | | | | |
| 52 Methylene Chloride | 84 | | 5.780 | | | | | |
| 53 Acrylonitrile | 53 | | 5.920 | | | | | |
| 54 Methyl tert-butyl ether | 73 | | 5.976 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.004 | | | | | |
| 56 Hexane | 57 | | 6.190 | | | | | |
| 57 Vinyl acetate | 43 | | 6.261 | | | | | |
| 58 Isopropyl ether | 87 | | 6.290 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.333 | | | | | |
| 60 2-Chloro-1,3-butadiene | 53 | | 6.404 | | | | | |
| 61 Tert-butyl ethyl ether | 59 | | 6.569 | | | | | |
| 63 Ethyl acetate | 43 | | 6.690 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.697 | | | | | |
| 65 sec-Butyl Alcohol | 45 | | 6.740 | | | | | 139 |
| 64 Propionitrile | 54 | | 6.747 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.762 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.797 | | | | | |
| 68 Methacrylonitrile | 41 | | 6.876 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.955 | | | | | |
| 70 Chloroform | 83 | | 6.969 | | | | | |
| 71 Tetrahydrofuran | 42 | | 6.990 | | | | | |
| 72 Isobutyl alcohol | 41 | | 7.162 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.198 | | | | | |
| 74 Cyclohexane | 56 | | 7.276 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.298 | | | | | |
| 76 Carbon tetrachloride | 117 | | 7.341 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.441 | | | | | |
| 78 Tert-amyl methyl ether | 73 | | 7.469 | | | | | |
| 79 Benzene | 78 | | 7.477 | | | | | |
| 80 n-Butanol | 56 | | 7.655 | | | | | |
| 81 Trichloroethene | 95 | | 7.941 | | | | | |
| 82 2-Pentanone | 43 | | 7.963 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | | 8.063 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.120 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.142 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.170 | | | | | |
| 87 Dibromomethane | 93 | | 8.213 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.285 | | | | | |
| 89 2-Nitropropane | 41 | | 8.420 | | | | | |
| 90 2-Chloroethyl vinyl ether | 63 | | 8.428 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.606 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.656 | | | | | |
| 93 Toluene | 91 | | 8.892 | | | | | |
| 94 Ethyl methacrylate | 69 | | 8.971 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.978 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.135 | | | | | |
| 97 2-Hexanone | 43 | | 9.250 | | | | | 19 |
| 98 1,3-Dichloropropane | 76 | | 9.271 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.307 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.464 | | | | | |
| 101 Tetrahydrothiophene | 60 | | 9.514 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.593 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.829 | | | | | |
| 104 Chlorobenzene | 112 | | 9.936 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.972 | | | | | |
| 106 Ethylbenzene | 106 | | 9.979 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.051 | | | | | |
| 109 Styrene | 104 | | 10.372 | | | | | |
| 108 o-Xylene | 106 | | 10.372 | | | | | |
| 110 Bromoform | 173 | | 10.565 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.637 | | | | | |
| 112 cis-1,4-Dichloro-2-butene | 53 | | 10.651 | | | | | |
| 113 Cyclohexanone | 55 | | 10.751 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.830 | | | | | |
| 115 trans-1,4-Dichloro-2-butene | 53 | | 10.859 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.902 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.952 | | | | | |
| 117 Bromobenzene | 156 | | 10.952 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.066 | | | | | |
| 120 2-Chlorotoluene | 126 | | 11.073 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.152 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.359 | | | | | |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.388 | | | | | |
| 124 sec-Butylbenzene | 134 | | 11.545 | | | | | |
| 125 4-Isopropyltoluene | 119 | | 11.631 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.702 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.767 | | | | | |
| 128 1,2,3-Trimethylbenzene | 105 | | 11.774 | | | | | |
| 129 n-Butylbenzene | 91 | | 12.003 | | | | | |
| 130 1,2-Dichlorobenzene | 146 | | 12.131 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.861 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.826 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.983 | | | | | |
| 134 Naphthalene | 128 | | 14.183 | | | | | 19 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | | 14.505 | | | | | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 0 | 7 |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 0 | 7 |
| S 141 Xylenes, Total | 106 | | | | 0 | | 0 | 7 |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 0 | 7 |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 0 | 7 |
| S 138 Total BTEX | 1 | | 0.000 | | | | | 7 |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 0 | 7 |

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

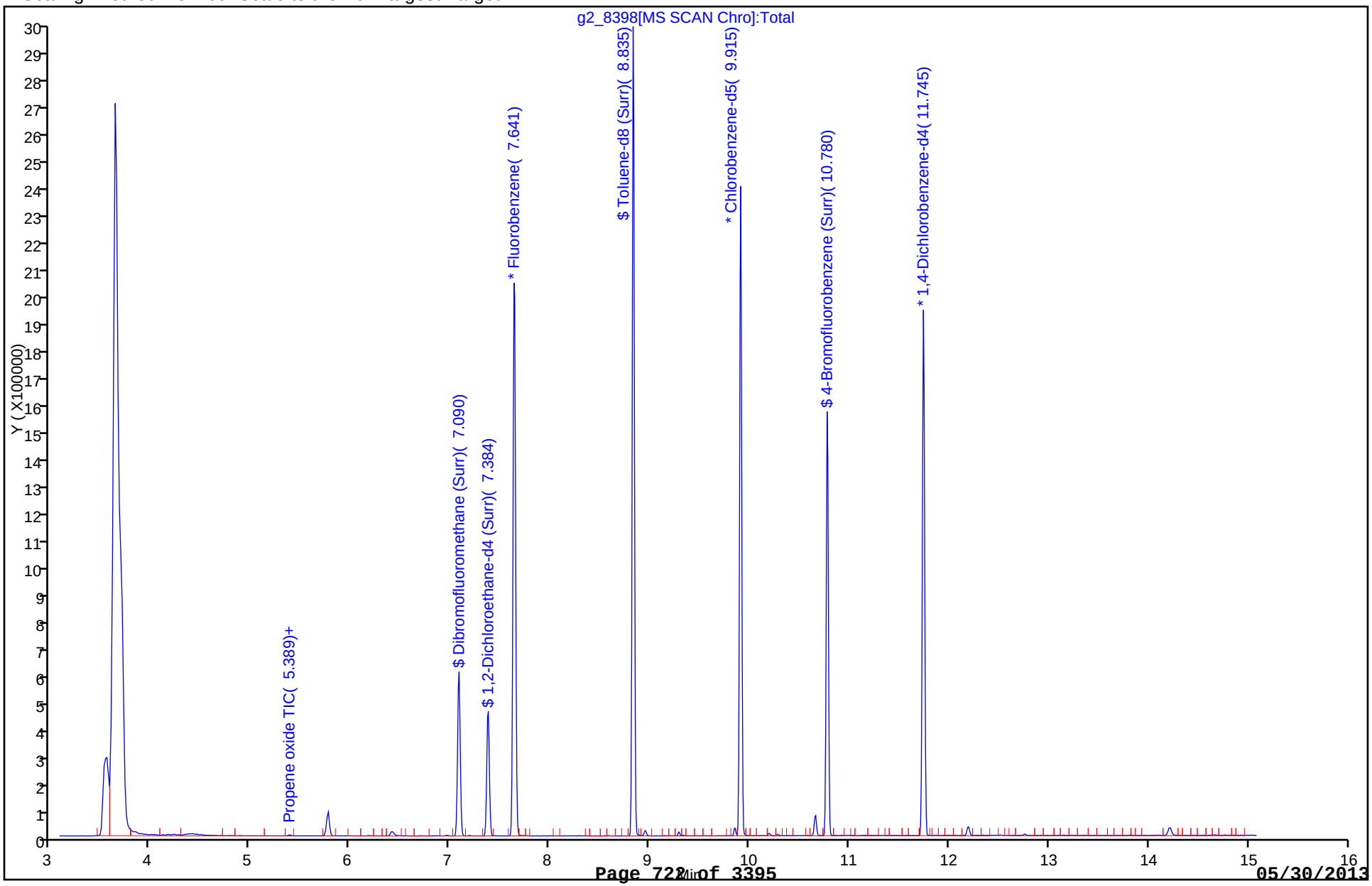
Report Date: 16-May-2013 17:07:59 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8398.D

| | | | |
|---|---|---|---|
| Injection Date: | 15-May-2013 21:12:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 6 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-174775/1-A

Matrix: Solid | Lab File ID: g2_8492.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/17/2013 09:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 5.0 | 1.0 | 0.56 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 5.0 | 1.0 | 0.52 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 5.0 | 1.0 | 0.61 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 20 | U | 20 | 20 | 0.45 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 5.0 | 1.0 | 0.88 |
| 75-34-3 | 1,1-Dichloroethane | 0.80 | U | 5.0 | 0.80 | 0.21 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 5.0 | 1.0 | 0.59 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 5.0 | 1.0 | 0.54 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 5.0 | 1.0 | 0.75 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 5.0 | 1.0 | 0.81 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 5.0 | 1.0 | 0.73 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 5.0 | 1.0 | 0.58 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 10 | 1.0 | 0.60 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 5.0 | 1.0 | 0.45 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 5.0 | 1.0 | 0.70 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 5.0 | 1.0 | 0.55 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 5.0 | 1.0 | 0.57 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 5.0 | 1.0 | 0.48 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 5.0 | 1.0 | 0.51 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 5.0 | 1.0 | 0.78 |
| 123-91-1 | 1,4-Dioxane | 80 | U | 500 | 80 | 56 |
| 544-10-5 | 1-Chlorohexane | 0.80 | U | 5.0 | 0.80 | 0.63 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 5.0 | 1.0 | 0.44 |
| 78-93-3 | 2-Butanone (MEK) | 6.4 | U | 20 | 6.4 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 5.0 | 1.0 | 0.51 |
| 591-78-6 | 2-Hexanone | 10 | U | 20 | 10 | 4.9 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 5.0 | 1.0 | 0.78 |
| 99-87-6 | 4-Isopropyltoluene | 1.0 | U | 5.0 | 1.0 | 0.49 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 10 | U | 20 | 10 | 4.4 |
| 67-64-1 | Acetone | 7.90 | J | 20 | 10 | 5.4 |
| 71-43-2 | Benzene | 1.0 | U | 5.0 | 1.0 | 0.47 |
| 108-86-1 | Bromobenzene | 1.0 | U | 5.0 | 1.0 | 0.49 |
| 75-25-2 | Bromoform | 0.80 | U | 5.0 | 0.80 | 0.23 |
| 74-83-9 | Bromomethane | 1.0 | U | 10 | 1.0 | 0.50 |
| 75-15-0 | Carbon disulfide | 0.669 | J | 5.0 | 1.0 | 0.42 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-174775/1-A

Matrix: Solid | Lab File ID: g2_8492.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/17/2013 09:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 5.0 | 1.0 | 0.63 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 5.0 | 1.0 | 0.54 |
| 74-97-5 | Chlorobromomethane | 1.0 | U | 5.0 | 1.0 | 0.30 |
| 124-48-1 | Chlorodibromomethane | 1.0 | U | 5.0 | 1.0 | 0.57 |
| 75-00-3 | Chloroethane | 1.0 | U | 10 | 1.0 | 0.89 |
| 67-66-3 | Chloroform | 1.0 | U | 10 | 1.0 | 0.29 |
| 74-87-3 | Chloromethane | 1.0 | U | 10 | 1.0 | 0.77 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 5.0 | 1.0 | 0.56 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.0 | U | 5.0 | 2.0 | 1.3 |
| 110-82-7 | Cyclohexane | 1.6 | U | 5.0 | 1.6 | 0.40 |
| 74-95-3 | Dibromomethane | 1.0 | U | 5.0 | 1.0 | 0.84 |
| 75-27-4 | Dichlorobromomethane | 0.80 | U | 5.0 | 0.80 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 10 | 1.0 | 0.52 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 5.0 | 1.0 | 0.67 |
| 106-93-4 | Ethylene Dibromide | 1.0 | U | 5.0 | 1.0 | 0.52 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 5.0 | 1.0 | 0.55 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 5.0 | 1.0 | 0.59 |
| 79-20-9 | Methyl acetate | 4.0 | U | 8.5 | 4.0 | 2.8 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 20 | 1.0 | 0.34 |
| 108-87-2 | Methylcyclohexane | 0.80 | U | 5.0 | 0.80 | 0.42 |
| 75-09-2 | Methylene Chloride | 2.16 | J | 5.0 | 3.2 | 1.6 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 3.2 | 2.0 | 1.0 |
| 91-20-3 | Naphthalene | 1.0 | U | 5.0 | 1.0 | 0.63 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 5.0 | 1.0 | 0.56 |
| 103-65-1 | N-Propylbenzene | 1.0 | U | 5.0 | 1.0 | 0.58 |
| 95-47-6 | o-Xylene | 1.0 | U | 5.0 | 1.0 | 0.61 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 5.0 | 1.0 | 0.77 |
| 100-42-5 | Styrene | 1.0 | U | 5.0 | 1.0 | 0.63 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 5.0 | 1.0 | 0.50 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 5.0 | 1.0 | 0.59 |
| 108-88-3 | Toluene | 1.0 | U | 5.0 | 1.0 | 0.69 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 5.0 | 1.0 | 0.39 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 5.0 | 1.0 | 0.67 |
| 79-01-6 | Trichloroethene | 0.80 | U | 5.0 | 0.80 | 0.23 |
| 75-69-4 | Trichlorofluoromethane | 2.0 | U | 10 | 2.0 | 1.0 |
| 75-01-4 | Vinyl chloride | 2.0 | U | 5.0 | 2.0 | 1.3 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-174775/1-A

Matrix: Solid Lab File ID: g2_8492.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 05/17/2013 09:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 95 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 109 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8492.D
Lims ID: MB Client ID:
Inject. Date: 17-May-2013 09:21:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: MB
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 7
Lims Batch ID: 174695 Lims Sample ID: 8
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 10:26:09

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2674218 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 86 | 642141 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.743 | 11.743 | 0.0 | 95 | 1004648 | 50.0 | |
| $ 4 BFB | 95 | | 4.672 | | | | | 1 |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 58 | 666189 | 60.0 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 98 | 778853 | 55.0 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2672184 | 55.1 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 89 | 921636 | 52.4 | |
| 18 3,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 21 2-Methylhexane | 1 | | 0.000 | | | | | |
| 19 2,4-Dimethylpentane | 1 | | 0.000 | | | | | |
| 9 2,2,3-Trimethylbutane | 1 | | 0.000 | | | | | |
| 11 1,3,5-Trichlorobenzene | 180 | | 0.000 | | | | | |
| 17 Dimethyl disulfide | 1 | | 0.000 | | | | | |
| 20 2-Butoxyethanol TIC | 1 | | 0.000 | | | | | |
| 10 2,2-Dimethylpentane | 1 | | 0.000 | | | | | |
| 16 3-Methylhexane | 1 | | 0.000 | | | | | |
| 13 n-Heptane | 43 | | 0.000 | | | | | |
| 14 2,3-Dimethylpentane | 1 | | 0.000 | | | | | |
| 15 3-Ethylpentane | 1 | | 0.000 | | | | | |
| 12 n-Nonyl Aldehyde | 1 | | 0.000 | | | | | |
| 23 2,3-dichloro-1-propene TIC | 75 | | 1.000 | | | | | |
| 22 Dichloroacetonitrile TIC | 74 | | 1.000 | | | | | |
| 24 Chlorotrifluoroethene | 116 | | 3.906 | | | | | |
| 25 Dichlorodifluoromethane | 85 | | 3.948 | | | | | |
| 26 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | | 4.102 | | | | | |
| 27 Chloromethane | 50 | | 4.157 | | | | | |
| 28 Vinyl chloride | 62 | | 4.297 | | | | | |
| 29 2-Chloro-1,1,1-Trifluoroethane | 118 | | 4.353 | | | | | |
| 30 Ethylene oxide | 43 | | 4.619 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 31 Bromomethane | 94 | | 4.674 | | | | | |
| 32 Chloroethane | 64 | | 4.744 | | | | | |
| 33 Dichlorofluoromethane | 67 | | 4.884 | | | | | |
| 35 Trichlorofluoromethane | 101 | | 5.009 | | | | | |
| 34 Ethanol | 45 | | 5.009 | | | | | |
| 36 1,2-Dichloro-1,1,2-trifluoroetha | 117 | | 5.135 | | | | | |
| 37 1,1,1-Trifluoro-2,2-dichloroetha | 83 | | 5.163 | | | | | |
| 38 Ethyl ether | 59 | | 5.163 | | | | | |
| 39 Propene oxide | 58 | | 5.247 | | | | | |
| 41 Acrolein | 56 | | 5.289 | | | | | |
| 40 Propene oxide TIC | 58 | 5.331 | 5.359 | -0.028 | 56 | 3545 | 0 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.001 | 95 | 38407 | 7.90 | |
| 43 Isopropyl alcohol | 45 | | 5.401 | | | | | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 5.415 | | | | | |
| 45 1,1-Dichloroethene | 96 | | 5.428 | | | | | |
| 46 Acetonitrile | 41 | | 5.610 | | | | | |
| 47 Iodomethane | 142 | | 5.610 | | | | | |
| 48 Methyl acetate | 43 | | 5.624 | | | | | |
| 49 3-Chloro-1-propene | 41 | | 5.680 | | | | | |
| 50 Carbon disulfide | 76 | 5.708 | 5.708 | 0.0 | 89 | 28326 | 0.6690 | |
| 51 2-Methyl-2-propanol | 59 | | 5.736 | | | | | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 90 | 36044 | 2.16 | |
| 53 Acrylonitrile | 53 | | 5.917 | | | | | |
| 54 Methyl tert-butyl ether | 73 | | 5.959 | | | | | |
| 55 trans-1,2-Dichloroethene | 96 | | 6.001 | | | | | |
| 56 Hexane | 57 | | 6.187 | | | | | |
| 57 Vinyl acetate | 43 | | 6.258 | | | | | |
| 58 Isopropyl ether | 87 | | 6.287 | | | | | |
| 59 1,1-Dichloroethane | 63 | | 6.322 | | | | | |
| 60 2-Chloro-1,3-butadiene | 53 | | 6.401 | | | | | |
| 61 Tert-butyl ethyl ether | 59 | | 6.566 | | | | | |
| 62 2-Butanone (MEK) | 43 | | 6.687 | | | | | |
| 63 Ethyl acetate | 43 | | 6.687 | | | | | |
| 65 sec-Butyl Alcohol | 45 | | 6.730 | | | | | 19 |
| 64 Propionitrile | 54 | | 6.737 | | | | | |
| 66 cis-1,2-Dichloroethene | 96 | | 6.759 | | | | | |
| 67 2,2-Dichloropropane | 77 | | 6.794 | | | | | |
| 68 Methacrylonitrile | 41 | | 6.873 | | | | | |
| 69 Chlorobromomethane | 128 | | 6.952 | | | | | |
| 70 Chloroform | 83 | | 6.959 | | | | | |
| 71 Tetrahydrofuran | 42 | | 6.988 | | | | | |
| 72 Isobutyl alcohol | 41 | | 7.152 | | | | | |
| 73 1,1,1-Trichloroethane | 97 | | 7.188 | | | | | |
| 74 Cyclohexane | 56 | | 7.274 | | | | | |
| 75 1,1-Dichloropropene | 75 | | 7.288 | | | | | |
| 76 Carbon tetrachloride | 117 | | 7.338 | | | | | |
| 77 1,2-Dichloroethane | 62 | | 7.438 | | | | | |
| 78 Tert-amyl methyl ether | 73 | | 7.460 | | | | | |
| 79 Benzene | 78 | | 7.466 | | | | | |
| 80 n-Butanol | 56 | | 7.645 | | | | | |
| 81 Trichloroethene | 95 | | 7.931 | | | | | |
| 82 2-Pentanone | 43 | | 7.960 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 Methyl methacrylate | 100 | | 8.060 | | | | | |
| 84 1,2-Dichloropropane | 63 | | 8.110 | | | | | |
| 85 Methylcyclohexane | 55 | | 8.139 | | | | | |
| 86 1,4-Dioxane | 88 | | 8.160 | | | | | |
| 87 Dibromomethane | 93 | | 8.210 | | | | | |
| 88 Dichlorobromomethane | 83 | | 8.282 | | | | | |
| 89 2-Nitropropane | 41 | | 8.411 | | | | | |
| 90 2-Chloroethyl vinyl ether | 63 | | 8.418 | | | | | |
| 91 cis-1,3-Dichloropropene | 75 | | 8.603 | | | | | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | | 8.653 | | | | | |
| 93 Toluene | 91 | | 8.882 | | | | | |
| 94 Ethyl methacrylate | 69 | | 8.961 | | | | | |
| 95 trans-1,3-Dichloropropene | 75 | | 8.968 | | | | | |
| 96 1,1,2-Trichloroethane | 97 | | 9.132 | | | | | |
| 97 2-Hexanone | 43 | | 9.240 | | | | | |
| 98 1,3-Dichloropropane | 76 | | 9.268 | | | | | |
| 99 Tetrachloroethene | 164 | | 9.304 | | | | | |
| 100 Chlorodibromomethane | 129 | | 9.461 | | | | | |
| 101 Tetrahydrothiophene | 60 | | 9.512 | | | | | |
| 102 Ethylene Dibromide | 107 | | 9.583 | | | | | |
| 103 1-Chlorohexane | 91 | | 9.819 | | | | | |
| 104 Chlorobenzene | 112 | | 9.933 | | | | | |
| 106 Ethylbenzene | 106 | | 9.969 | | | | | |
| 105 1,1,1,2-Tetrachloroethane | 131 | | 9.969 | | | | | |
| 107 m-Xylene & p-Xylene | 106 | | 10.048 | | | | | |
| 109 Styrene | 104 | | 10.362 | | | | | |
| 108 o-Xylene | 106 | | 10.362 | | | | | |
| 110 Bromoform | 173 | | 10.563 | | | | | |
| 111 Isopropylbenzene | 105 | | 10.627 | | | | | |
| 112 cis-1,4-Dichloro-2-butene | 53 | | 10.641 | | | | | |
| 113 Cyclohexanone | 55 | | 10.741 | | | | | |
| 114 1,1,2,2-Tetrachloroethane | 83 | | 10.820 | | | | | |
| 115 trans-1,4-Dichloro-2-butene | 53 | | 10.856 | | | | | |
| 116 1,2,3-Trichloropropane | 110 | | 10.891 | | | | | |
| 117 Bromobenzene | 156 | | 10.942 | | | | | |
| 118 N-Propylbenzene | 120 | | 10.949 | | | | | |
| 119 1,3,5-Trimethylbenzene | 105 | | 11.056 | | | | | 19 |
| 120 2-Chlorotoluene | 126 | | 11.070 | | | | | |
| 121 4-Chlorotoluene | 126 | | 11.142 | | | | | |
| 122 tert-Butylbenzene | 119 | | 11.356 | | | | | 19 |
| 123 1,2,4-Trimethylbenzene | 105 | | 11.385 | | | | | 19 |
| 124 sec-Butylbenzene | 134 | | 11.535 | | | | | 19 |
| 125 4-Isopropyltoluene | 119 | | 11.628 | | | | | |
| 126 1,3-Dichlorobenzene | 146 | | 11.692 | | | | | |
| 127 1,4-Dichlorobenzene | 146 | | 11.764 | | | | | |
| 128 1,2,3-Trimethylbenzene | 105 | | 11.764 | | | | | |
| 129 n-Butylbenzene | 91 | | 11.993 | | | | | 19 |
| 130 1,2-Dichlorobenzene | 146 | | 12.121 | | | | | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | | 12.858 | | | | | |
| 132 1,2,4-Trichlorobenzene | 180 | | 13.809 | | | | | |
| 133 Hexachlorobutadiene | 225 | | 13.973 | | | | | |
| 134 Naphthalene | 128 | | 14.173 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | | 14.495 | | | | | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 0 | 7 |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 0 | 7 |
| S 138 Total BTEX | 1 | | 0.000 | | | | | 7 |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 0 | 7 |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 0 | 7 |
| S 141 Xylenes, Total | 106 | | | | 0 | | 0 | 7 |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 0 | 7 |

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

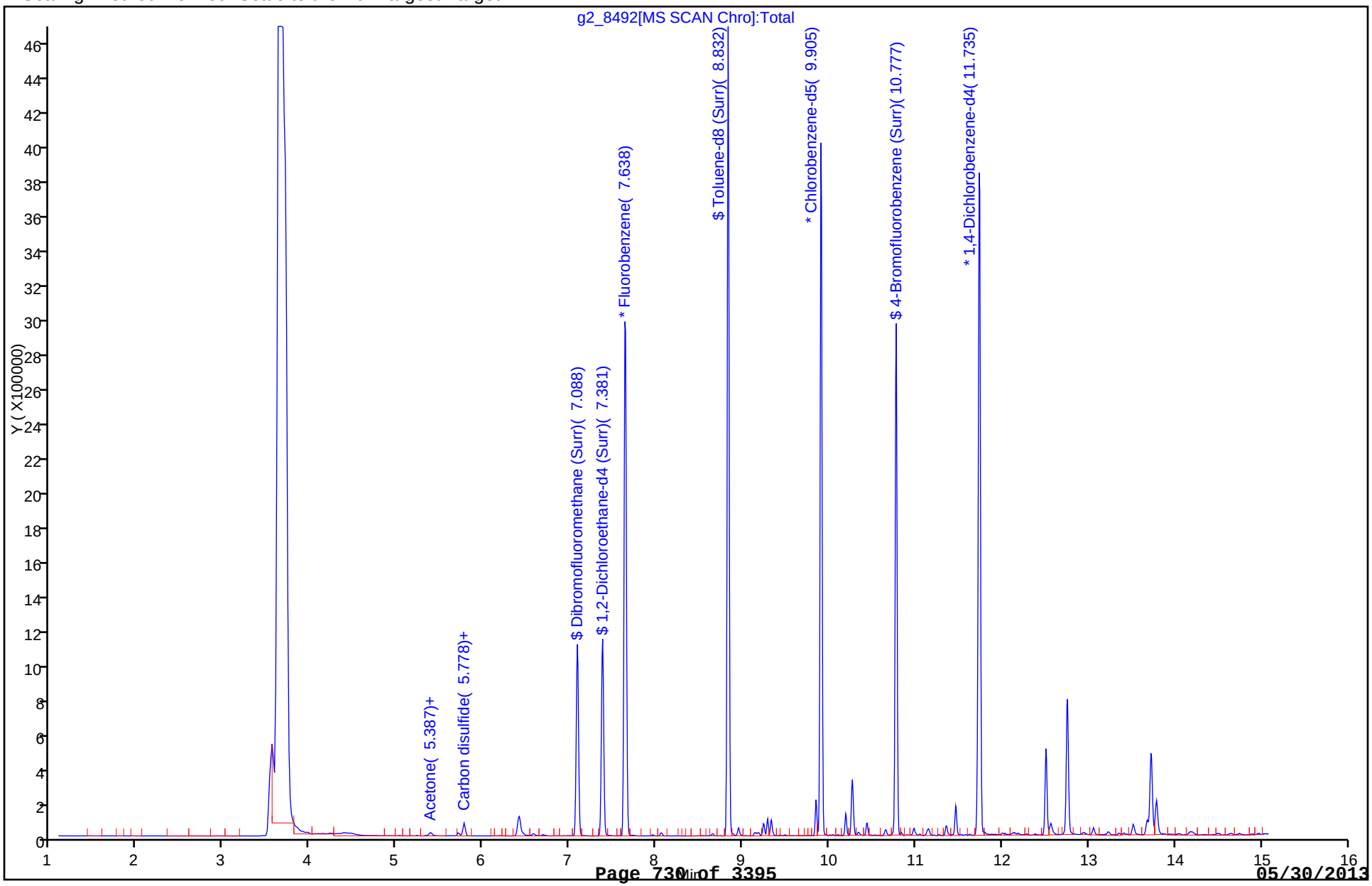
Report Date: 18-May-2013 06:26:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8492.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 09:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 8 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



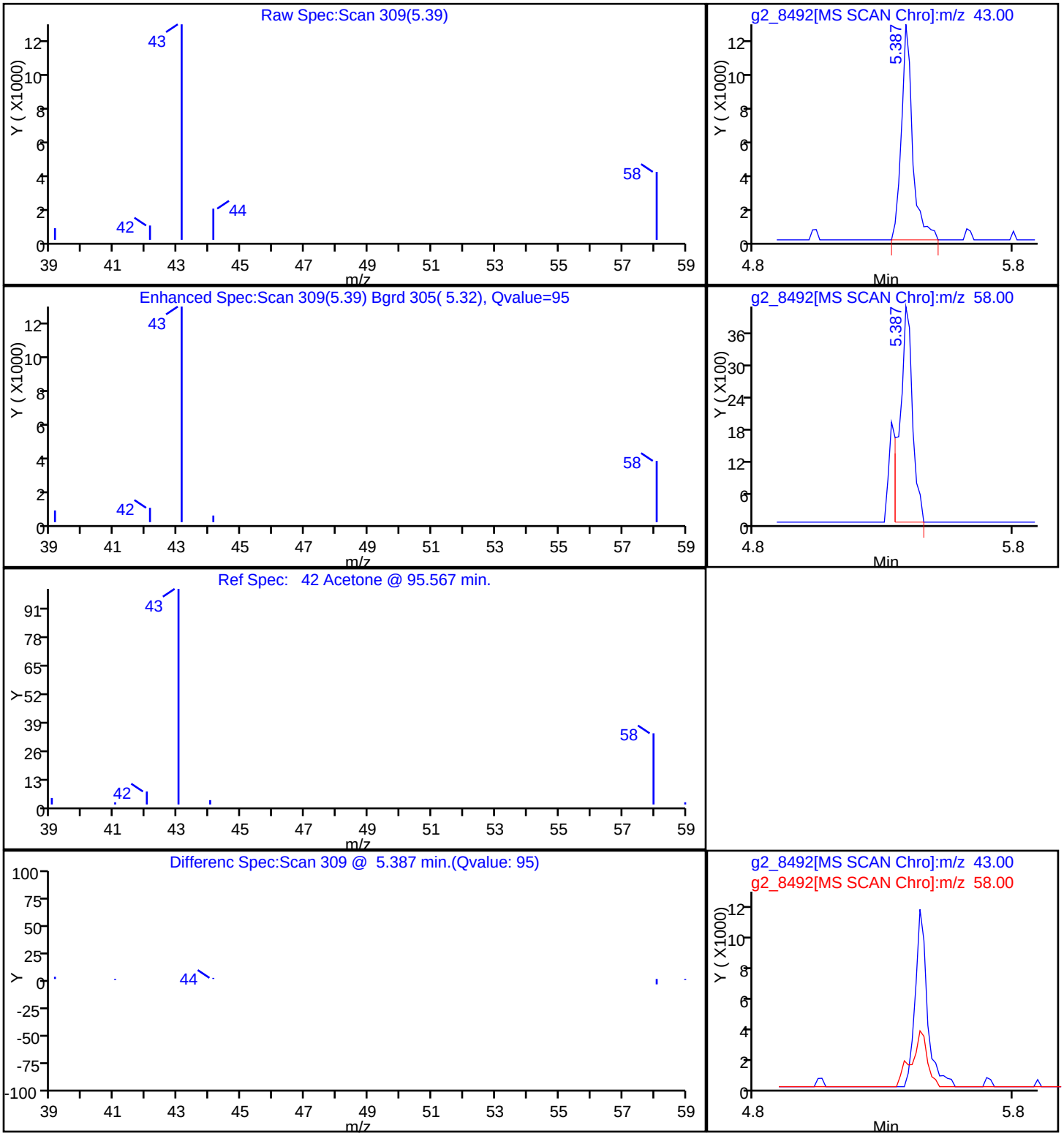
Report Date: 18-May-2013 06:26:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8492.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 09:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 8 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

42 Acetone



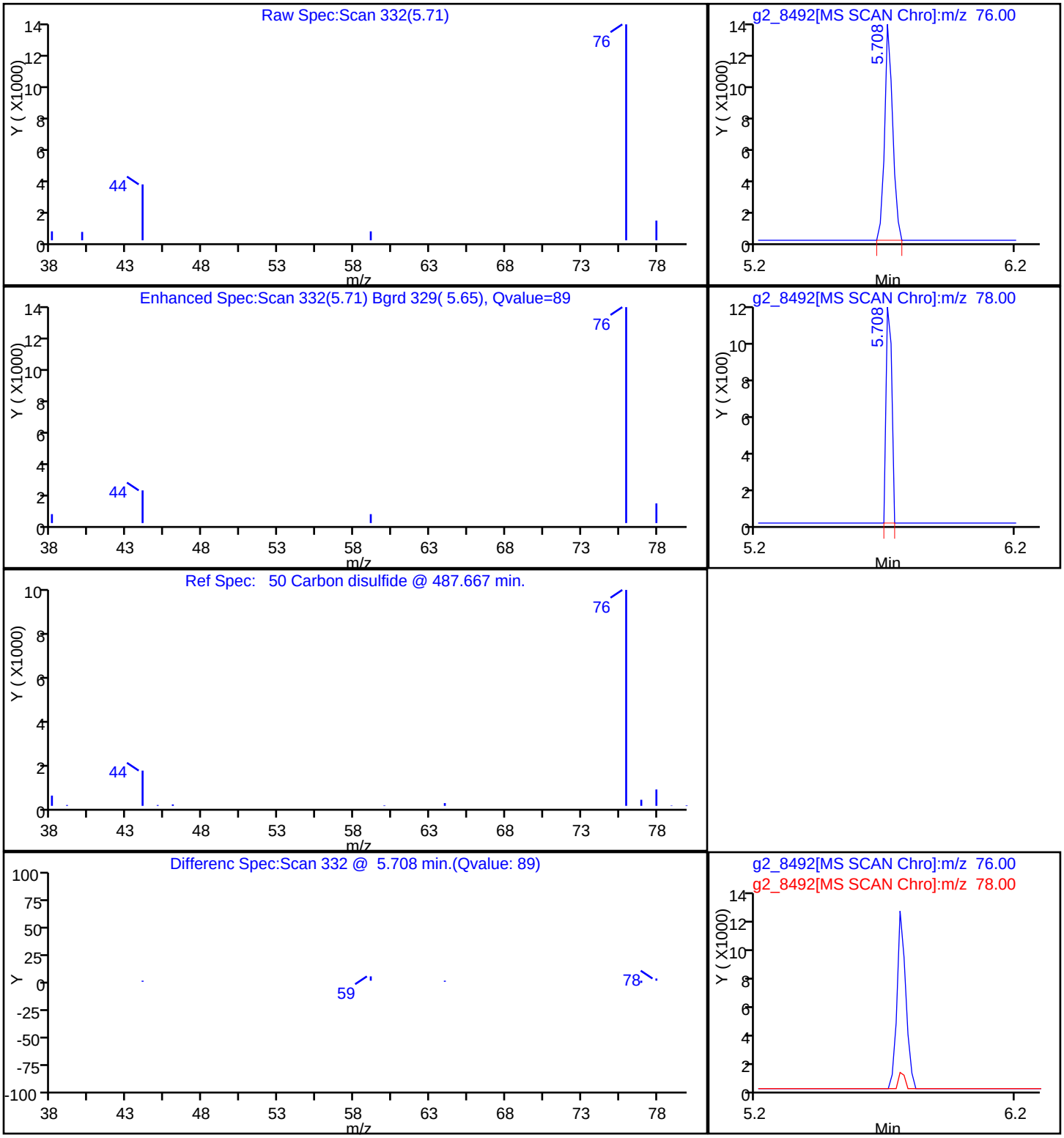
Report Date: 18-May-2013 06:26:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8492.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 09:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 8 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

50 Carbon disulfide



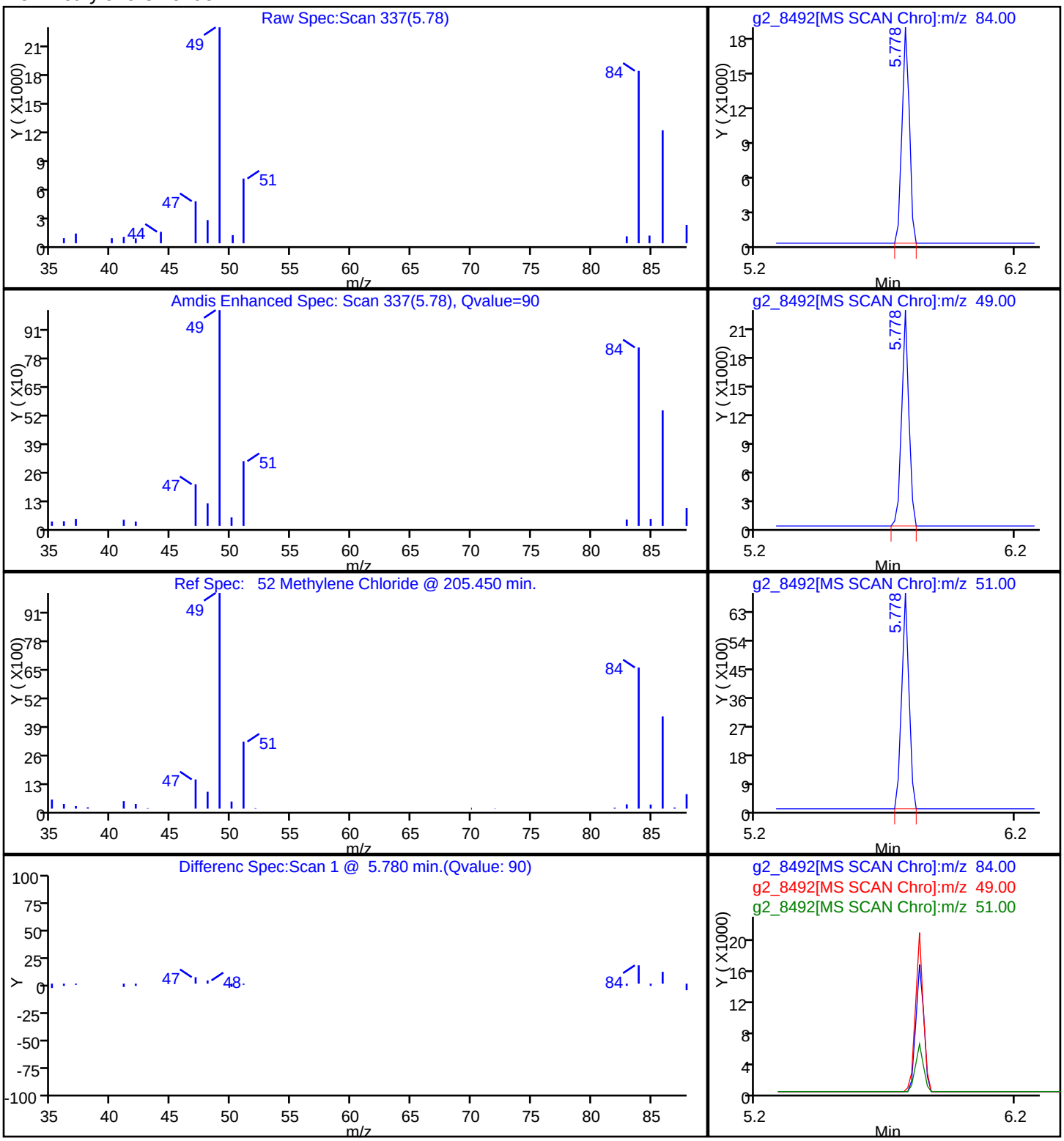
Report Date: 18-May-2013 06:26:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8492.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 09:21:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 8 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-173812/5

Matrix: Water | Lab File ID: Z4177.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/10/2013 20:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 173812 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.70 | | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.77 | | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.79 | | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.65 | | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 4.60 | | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 4.52 | | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 5.61 | | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 4.41 | | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.56 | | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.66 | | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.76 | | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.63 | | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.57 | J | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.82 | | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 4.63 | | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 4.62 | | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 4.73 | | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.72 | | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 4.63 | | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.85 | | 1.0 | 0.40 | 0.16 |
| 544-10-5 | 1-Chlorohexane | 4.80 | | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 4.76 | | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 17.2 | | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 5.34 | | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 18.1 | | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 4.74 | | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 4.56 | | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 18.3 | | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 23.2 | | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 4.66 | | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 4.77 | | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 4.77 | | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 4.50 | | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 4.85 | | 2.0 | 0.80 | 0.45 |
| 56-23-5 | Carbon tetrachloride | 4.74 | | 2.0 | 0.40 | 0.19 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-173812/5

Matrix: Water | Lab File ID: Z4177.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/10/2013 20:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 173812 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | 4.83 | | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 4.75 | | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 4.74 | | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 4.51 | | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 4.66 | | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 3.84 | | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.71 | | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.74 | | 1.0 | 0.20 | 0.16 |
| 74-95-3 | Dibromomethane | 4.65 | | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 4.66 | | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 4.42 | | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 4.72 | | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 4.72 | | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 4.91 | | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 4.72 | | 1.0 | 0.40 | 0.19 |
| 1634-04-4 | Methyl tert-butyl ether | 4.99 | J | 5.0 | 0.40 | 0.25 |
| 75-09-2 | Methylene Chloride | 5.70 | | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 9.40 | | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 4.18 | | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 4.64 | | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 4.66 | | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 4.67 | | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 4.72 | | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 4.72 | | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 4.68 | | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 4.96 | | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 4.67 | | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.96 | | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.73 | | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 4.61 | | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 4.71 | | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 4.90 | | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-173812/5

Matrix: Water Lab File ID: Z4177.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/10/2013 20:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 173812 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 92 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4177.D
Lims ID: lcs Client ID:
Inject. Date: 10-May-2013 20:35:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: lcs
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 4
Lims Batch ID: 173812 Lims Sample ID: 5
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\AQ_VMSZ_8260.m
Last Update: 13-May-2013 16:34:33 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 10-May-2013 20:55:48

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.843 | 5.824 | 0.019 | 99 | 1386122 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.368 | 10.366 | 0.002 | 89 | 287955 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.439 | 14.437 | 0.002 | 97 | 522641 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.026 | 5.027 | -0.001 | 67 | 602087 | 8.29 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.478 | 5.462 | 0.016 | 78 | 266452 | 8.12 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.053 | 8.054 | -0.001 | 93 | 1263166 | 9.12 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.403 | 12.404 | -0.001 | 86 | 690138 | 8.45 | |
| 24 Dichlorodifluoromethane | 85 | 1.772 | 1.755 | 0.017 | 98 | 326626 | 4.42 | |
| 25 Chloromethane | 50 | 1.859 | 1.842 | 0.017 | 99 | 224920 | 3.84 | |
| 28 Vinyl chloride | 62 | 1.963 | 1.946 | 0.017 | 94 | 206167 | 4.90 | |
| 30 Bromomethane | 94 | 2.172 | 2.155 | 0.017 | 90 | 212529 | 4.50 | |
| 31 Chloroethane | 64 | 2.207 | 2.190 | 0.017 | 90 | 132159 | 4.51 | |
| 33 Trichlorofluoromethane | 101 | 2.328 | 2.399 | -0.071 | 98 | 487957 | 4.71 | |
| 43 1,1-Dichloroethene | 96 | 2.746 | 2.729 | 0.017 | 98 | 226966 | 5.61 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.763 | 2.747 | 0.016 | 97 | 307100 | 5.65 | |
| 42 Acetone | 43 | 2.816 | 2.799 | 0.017 | 84 | 78346 | 23.2 | |
| 45 Iodomethane | 142 | 2.903 | 2.886 | 0.017 | 99 | 454087 | 5.47 | |
| 46 Carbon disulfide | 76 | 2.937 | 2.921 | 0.016 | 99 | 646804 | 4.85 | |
| 50 Methylene Chloride | 84 | 3.181 | 3.164 | 0.017 | 95 | 260834 | 5.70 | |
| 51 2-Methyl-2-propanol | 59 | 3.251 | 3.251 | 0.0 | 97 | 137364 | 98.3 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.390 | 3.373 | 0.017 | 97 | 245269 | 4.96 | |
| 54 Methyl tert-butyl ether | 73 | 3.390 | 3.374 | 0.016 | 90 | 314766 | 4.99 | |
| 55 Hexane | 57 | 3.564 | 3.565 | -0.001 | 90 | 290116 | 4.94 | |
| 56 1,1-Dichloroethane | 63 | 3.842 | 3.825 | 0.017 | 96 | 392817 | 4.52 | |
| 57 Vinyl acetate | 43 | 3.842 | 3.840 | 0.002 | 97 | 216623 | 4.42 | |
| 63 2,2-Dichloropropane | 77 | 4.469 | 4.452 | 0.017 | 85 | 355816 | 4.76 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.469 | 4.469 | 0.0 | 84 | 232187 | 4.71 | |
| 61 2-Butanone (MEK) | 43 | 4.504 | 4.487 | 0.017 | 98 | 125114 | 17.2 | |
| 67 sec-Butyl Alcohol | 45 | 4.678 | 4.679 | -0.001 | 96 | 154717 | 137.7 | |
| 68 Chlorobromomethane | 128 | 4.765 | 4.748 | 0.017 | 80 | 99376 | 4.75 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.834 | 4.817 | 0.017 | 92 | 416711 | 4.66 | |
| 71 1,1,1-Trichloroethane | 97 | 5.026 | 5.026 | 0.0 | 67 | 425614 | 4.77 | |
| 74 Carbon tetrachloride | 117 | 5.182 | 5.183 | -0.001 | 89 | 393525 | 4.74 | |
| 73 1,1-Dichloropropene | 75 | 5.217 | 5.200 | 0.017 | 96 | 343087 | 4.41 | |
| 77 Benzene | 78 | 5.461 | 5.461 | 0.0 | 98 | 632802 | 4.66 | |
| 76 1,2-Dichloroethane | 62 | 5.565 | 5.566 | -0.001 | 92 | 171781 | 4.63 | |
| 80 Trichloroethene | 95 | 6.313 | 6.314 | -0.001 | 96 | 293198 | 4.61 | |
| 82 2-Pentanone | 43 | 6.644 | 6.627 | 0.017 | 86 | 112464 | 7.62 | |
| 83 1,2-Dichloropropane | 63 | 6.679 | 6.679 | 0.0 | 93 | 218740 | 4.62 | |
| 85 Dibromomethane | 93 | 6.835 | 6.836 | -0.001 | 88 | 138441 | 4.65 | |
| 88 Dichlorobromomethane | 83 | 7.061 | 7.045 | 0.016 | 99 | 363624 | 4.66 | |
| 90 2-Chloroethyl vinyl ether | 63 | 7.531 | 7.515 | 0.016 | 86 | 64427 | 4.50 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.723 | 7.723 | 0.0 | 89 | 299058 | 4.74 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.984 | 7.984 | 0.0 | 95 | 391215 | 18.3 | |
| 93 Toluene | 91 | 8.158 | 8.141 | 0.017 | 94 | 757250 | 4.67 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.610 | 8.611 | -0.001 | 95 | 221654 | 4.73 | |
| 96 1,1,2-Trichloroethane | 97 | 8.888 | 8.889 | -0.001 | 92 | 142318 | 4.60 | |
| 97 Tetrachloroethene | 164 | 8.958 | 8.941 | 0.017 | 98 | 276106 | 4.96 | |
| 98 1,3-Dichloropropane | 76 | 9.150 | 9.150 | 0.0 | 90 | 218823 | 4.63 | |
| 99 2-Hexanone | 43 | 9.289 | 9.289 | 0.0 | 96 | 242009 | 18.1 | |
| 100 Chlorodibromomethane | 129 | 9.445 | 9.446 | -0.001 | 90 | 241996 | 4.74 | |
| 102 Ethylene Dibromide | 107 | 9.637 | 9.637 | 0.0 | 97 | 185144 | 4.72 | |
| 104 1-Chlorohexane | 91 | 10.402 | 10.403 | -0.001 | 93 | 368673 | 4.80 | |
| 103 Chlorobenzene | 112 | 10.420 | 10.420 | 0.0 | 90 | 520629 | 4.83 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.576 | 10.577 | -0.001 | 95 | 234883 | 4.70 | |
| 106 Ethylbenzene | 106 | 10.576 | 10.577 | -0.001 | 99 | 259286 | 4.72 | |
| 107 m-Xylene & p-Xylene | 106 | 10.785 | 10.786 | -0.001 | 0 | 670834 | 9.40 | |
| 108 o-Xylene | 106 | 11.464 | 11.464 | 0.0 | 96 | 303605 | 4.67 | |
| 109 Styrene | 104 | 11.499 | 11.499 | 0.0 | 93 | 486971 | 4.72 | |
| 110 Bromoform | 173 | 11.812 | 11.812 | 0.0 | 96 | 160049 | 4.77 | |
| 111 Isopropylbenzene | 105 | 12.090 | 12.091 | -0.001 | 95 | 1000871 | 4.72 | |
| 112 Cyclohexanone | 55 | 12.334 | 12.334 | 0.0 | 92 | 162067 | 268.3 | |
| 114 Bromobenzene | 156 | 12.612 | 12.613 | -0.001 | 95 | 254134 | 4.77 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.751 | 12.752 | -0.001 | 90 | 191096 | 4.79 | |
| 118 N-Propylbenzene | 120 | 12.804 | 12.804 | 0.0 | 98 | 235704 | 4.66 | |
| 116 1,2,3-Trichloropropane | 110 | 12.821 | 12.822 | -0.001 | 51 | 43046 | 4.66 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.873 | 12.874 | -0.001 | 87 | 171828 | 39.3 | |
| 119 2-Chlorotoluene | 126 | 12.960 | 12.961 | -0.001 | 91 | 227226 | 5.34 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.152 | 13.152 | 0.0 | 88 | 759458 | 4.73 | |
| 120 4-Chlorotoluene | 126 | 13.169 | 13.187 | -0.018 | 98 | 214415 | 4.74 | |
| 122 tert-Butylbenzene | 119 | 13.691 | 13.692 | -0.001 | 91 | 711742 | 4.68 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.813 | 13.813 | 0.0 | 86 | 724451 | 4.63 | |
| 124 sec-Butylbenzene | 134 | 14.091 | 14.092 | -0.001 | 94 | 211005 | 4.72 | |
| 125 1,3-Dichlorobenzene | 146 | 14.300 | 14.301 | -0.001 | 96 | 437153 | 4.72 | |
| 126 4-Isopropyltoluene | 119 | 14.370 | 14.370 | 0.0 | 95 | 881891 | 4.56 | |
| 127 1,4-Dichlorobenzene | 146 | 14.474 | 14.475 | -0.001 | 91 | 471465 | 4.85 | |
| 130 n-Butylbenzene | 91 | 15.101 | 15.101 | 0.0 | 95 | 951108 | 4.64 | |
| 129 1,2-Dichlorobenzene | 146 | 15.135 | 15.136 | -0.001 | 94 | 383132 | 4.82 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.423 | 16.441 | -0.018 | 71 | 35381 | 4.57 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.363 | 17.363 | 0.0 | 94 | 306095 | 4.76 | |
| 133 Hexachlorobutadiene | 225 | 17.502 | 17.502 | 0.0 | 96 | 278361 | 4.91 | |
| 134 Naphthalene | 128 | 17.606 | 17.607 | -0.001 | 96 | 272160 | 4.18 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.832 | 17.833 | -0.001 | 95 | 234868 | 4.56 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 9.67 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 14.1 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 9.48 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 18.8 | |

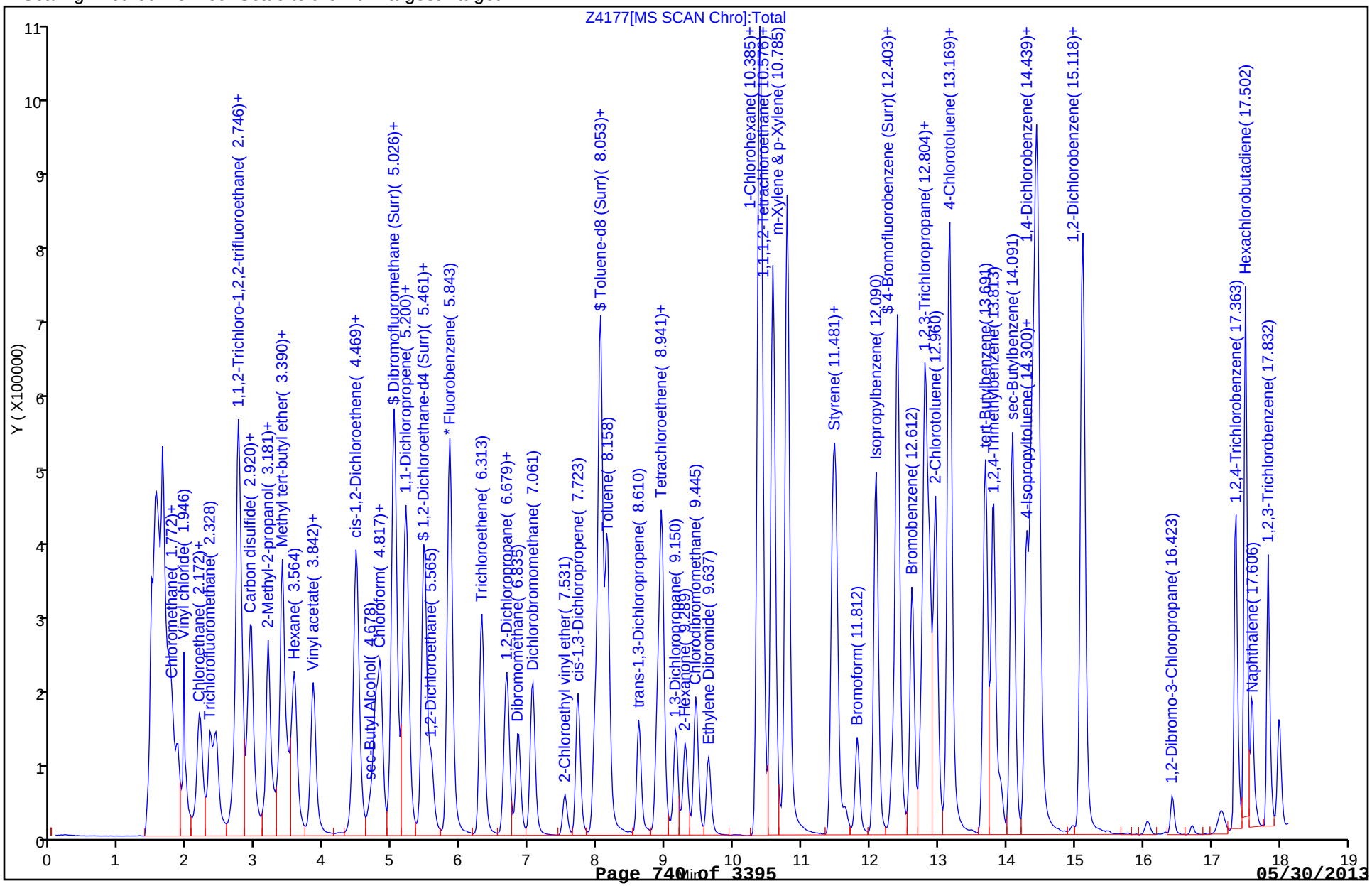
Report Date: 13-May-2013 16:34:34 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130510-11533.b\Z4177.D

| | | | |
|---|---|---|---|
| Injection Date: | 10-May-2013 20:35:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 173812 | Lims Sample ID: | 5 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-174063/34

Matrix: Water | Lab File ID: Z4283.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/13/2013 22:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174063 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.39 | | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.46 | | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.62 | | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.83 | | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 4.38 | | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 4.26 | | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 5.24 | | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 4.21 | | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.23 | | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.34 | | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.49 | | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.32 | | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.35 | J | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.39 | | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 4.43 | | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 4.42 | | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 4.43 | | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.43 | | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 4.46 | | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.59 | | 1.0 | 0.40 | 0.16 |
| 544-10-5 | 1-Chlorohexane | 4.59 | | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 4.53 | | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 18.0 | | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 5.01 | | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 20.6 | | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 4.43 | | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 4.30 | | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 19.3 | | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 23.3 | | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 4.46 | | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 4.41 | | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 4.41 | | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 3.79 | | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 4.31 | | 2.0 | 0.80 | 0.45 |
| 56-23-5 | Carbon tetrachloride | 4.45 | | 2.0 | 0.40 | 0.19 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-174063/34

Matrix: Water | Lab File ID: Z4283.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/13/2013 22:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174063 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | 4.52 | | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 4.45 | | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 4.53 | | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 4.26 | | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 4.45 | | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 3.42 | | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.44 | | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.49 | | 1.0 | 0.20 | 0.16 |
| 74-95-3 | Dibromomethane | 4.39 | | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 4.43 | | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 3.89 | | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 4.49 | | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 4.37 | | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 4.66 | | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 4.43 | | 1.0 | 0.40 | 0.19 |
| 1634-04-4 | Methyl tert-butyl ether | 4.71 | J | 5.0 | 0.40 | 0.25 |
| 75-09-2 | Methylene Chloride | 4.67 | J | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 8.94 | | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 4.16 | | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 4.47 | | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 4.34 | | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 4.39 | | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 4.55 | | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 4.54 | | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 4.40 | | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 4.59 | | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 4.43 | | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.63 | | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.56 | | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 4.43 | | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 4.18 | | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 4.05 | | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-174063/34

Matrix: Water Lab File ID: Z4283.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/13/2013 22:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 174063 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 94 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 105 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4283.D
Lims ID: lcs Client ID:
Inject. Date: 13-May-2013 22:59:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: lcs
Misc. Info.:
Operator: tinkhams Instrument ID: VMS_Z
Purge Vol: 20.000 mL ALS Bottle#: 4
Lims Batch ID: 174063 Lims Sample ID: 34
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\AQ_VMSZ_8260.m
Last Update: 14-May-2013 16:48:47 Calib Date: 09-May-2013 02:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_Z\20130508-11429.b\Z4076.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC293

First Level Reviewer: tinkhams Date: 13-May-2013 23:19:47

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.841 | 5.841 | 0.0 | 98 | 1443234 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 10.365 | 10.365 | 0.0 | 89 | 300688 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.437 | 14.436 | 0.001 | 97 | 548633 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 5.023 | 5.023 | 0.0 | 66 | 639808 | 8.46 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.459 | 5.475 | -0.017 | 77 | 288372 | 8.44 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.051 | 8.050 | 0.001 | 93 | 1362428 | 9.42 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 12.401 | 12.401 | 0.001 | 85 | 754857 | 8.81 | |
| 24 Dichlorodifluoromethane | 85 | 1.770 | 1.757 | 0.013 | 91 | 298827 | 3.89 | |
| 25 Chloromethane | 50 | 1.839 | 1.844 | -0.005 | 100 | 208526 | 3.42 | |
| 28 Vinyl chloride | 62 | 1.961 | 1.949 | 0.012 | 97 | 177482 | 4.05 | |
| 30 Bromomethane | 94 | 2.152 | 2.158 | -0.006 | 90 | 186161 | 3.79 | |
| 31 Chloroethane | 64 | 2.205 | 2.192 | 0.013 | 96 | 130224 | 4.26 | |
| 33 Trichlorofluoromethane | 101 | 2.326 | 2.401 | -0.075 | 99 | 451097 | 4.18 | |
| 43 1,1-Dichloroethene | 96 | 2.727 | 2.714 | 0.013 | 98 | 220667 | 5.24 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 2.761 | 2.761 | 0.0 | 97 | 273787 | 4.83 | |
| 42 Acetone | 43 | 2.814 | 2.801 | 0.013 | 82 | 81703 | 23.3 | |
| 45 Iodomethane | 142 | 2.883 | 2.871 | 0.012 | 99 | 430570 | 4.98 | |
| 46 Carbon disulfide | 76 | 2.935 | 2.935 | 0.0 | 99 | 598152 | 4.31 | |
| 50 Methylene Chloride | 84 | 3.179 | 3.167 | 0.012 | 95 | 232863 | 4.67 | |
| 51 2-Methyl-2-propanol | 59 | 3.249 | 3.254 | -0.005 | 92 | 136945 | 94.1 | |
| 53 trans-1,2-Dichloroethene | 96 | 3.388 | 3.376 | 0.012 | 97 | 238525 | 4.63 | |
| 54 Methyl tert-butyl ether | 73 | 3.370 | 3.387 | -0.017 | 66 | 309181 | 4.71 | |
| 55 Hexane | 57 | 3.562 | 3.561 | 0.001 | 91 | 271104 | 4.42 | |
| 56 1,1-Dichloroethane | 63 | 3.840 | 3.828 | 0.012 | 96 | 385857 | 4.26 | |
| 57 Vinyl acetate | 43 | 3.840 | 3.839 | 0.001 | 90 | 216305 | 4.24 | |
| 62 cis-1,2-Dichloroethene | 96 | 4.467 | 4.454 | 0.013 | 86 | 228064 | 4.44 | |
| 63 2,2-Dichloropropane | 77 | 4.449 | 4.454 | -0.005 | 85 | 352508 | 4.53 | |
| 61 2-Butanone (MEK) | 43 | 4.484 | 4.489 | -0.005 | 99 | 136764 | 18.0 | |
| 67 sec-Butyl Alcohol | 45 | 4.675 | 4.692 | -0.017 | 97 | 166514 | 142.3 | |
| 68 Chlorobromomethane | 128 | 4.745 | 4.750 | -0.005 | 90 | 97008 | 4.45 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 69 Chloroform | 83 | 4.815 | 4.820 | -0.005 | 94 | 414104 | 4.45 | |
| 71 1,1,1-Trichloroethane | 97 | 5.023 | 5.029 | -0.006 | 61 | 414874 | 4.46 | |
| 74 Carbon tetrachloride | 117 | 5.180 | 5.185 | -0.005 | 90 | 384560 | 4.45 | |
| 73 1,1-Dichloropropene | 75 | 5.197 | 5.203 | -0.006 | 96 | 341118 | 4.21 | |
| 77 Benzene | 78 | 5.459 | 5.464 | -0.006 | 97 | 630229 | 4.46 | |
| 76 1,2-Dichloroethane | 62 | 5.563 | 5.568 | -0.005 | 93 | 171158 | 4.43 | |
| 80 Trichloroethene | 95 | 6.311 | 6.316 | -0.005 | 96 | 293931 | 4.43 | |
| 82 2-Pentanone | 43 | 6.642 | 6.641 | 0.001 | 87 | 113299 | 7.37 | |
| 83 1,2-Dichloropropane | 63 | 6.677 | 6.682 | -0.005 | 93 | 217523 | 4.42 | |
| 85 Dibromomethane | 93 | 6.833 | 6.838 | -0.005 | 87 | 136307 | 4.39 | |
| 88 Dichlorobromomethane | 83 | 7.059 | 7.065 | -0.006 | 99 | 359736 | 4.43 | |
| 90 2-Chloroethyl vinyl ether | 63 | 7.529 | 7.528 | 0.001 | 87 | 66273 | 4.45 | |
| 91 cis-1,3-Dichloropropene | 75 | 7.721 | 7.726 | -0.005 | 90 | 295868 | 4.49 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 7.982 | 7.987 | -0.005 | 95 | 429506 | 19.3 | |
| 93 Toluene | 91 | 8.156 | 8.161 | -0.005 | 97 | 748179 | 4.43 | |
| 94 trans-1,3-Dichloropropene | 75 | 8.608 | 8.613 | -0.005 | 95 | 222293 | 4.56 | |
| 96 1,1,2-Trichloroethane | 97 | 8.886 | 8.892 | -0.006 | 92 | 141168 | 4.38 | |
| 97 Tetrachloroethene | 164 | 8.956 | 8.961 | -0.005 | 99 | 266957 | 4.59 | |
| 98 1,3-Dichloropropane | 76 | 9.147 | 9.153 | -0.006 | 90 | 219975 | 4.46 | |
| 99 2-Hexanone | 43 | 9.287 | 9.292 | -0.005 | 98 | 287609 | 20.6 | |
| 100 Chlorodibromomethane | 129 | 9.443 | 9.448 | -0.005 | 90 | 241535 | 4.53 | |
| 102 Ethylene Dibromide | 107 | 9.635 | 9.640 | -0.005 | 97 | 179268 | 4.37 | |
| 104 1-Chlorohexane | 91 | 10.400 | 10.405 | -0.005 | 94 | 368426 | 4.59 | |
| 103 Chlorobenzene | 112 | 10.418 | 10.423 | -0.005 | 92 | 509259 | 4.52 | |
| 106 Ethylbenzene | 106 | 10.574 | 10.579 | -0.005 | 99 | 257205 | 4.49 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 10.574 | 10.597 | -0.023 | 94 | 229278 | 4.39 | |
| 107 m-Xylene & p-Xylene | 106 | 10.783 | 10.788 | -0.005 | 0 | 666010 | 8.94 | |
| 108 o-Xylene | 106 | 11.462 | 11.467 | -0.005 | 94 | 297639 | 4.39 | |
| 109 Styrene | 104 | 11.497 | 11.519 | -0.022 | 93 | 489169 | 4.54 | |
| 110 Bromoform | 173 | 11.810 | 11.815 | -0.005 | 94 | 154504 | 4.41 | |
| 111 Isopropylbenzene | 105 | 12.088 | 12.093 | -0.005 | 96 | 986079 | 4.43 | |
| 112 Cyclohexanone | 55 | 12.332 | 12.354 | -0.022 | 92 | 178400 | 282.8 | |
| 114 Bromobenzene | 156 | 12.610 | 12.633 | -0.023 | 93 | 246976 | 4.41 | |
| 115 1,1,2,2-Tetrachloroethane | 83 | 12.749 | 12.755 | -0.006 | 88 | 193531 | 4.62 | |
| 118 N-Propylbenzene | 120 | 12.802 | 12.824 | -0.022 | 98 | 230612 | 4.34 | |
| 116 1,2,3-Trichloropropane | 110 | 12.819 | 12.824 | -0.005 | 50 | 42116 | 4.34 | |
| 117 trans-1,4-Dichloro-2-butene | 53 | 12.871 | 12.870 | 0.001 | 90 | 174872 | 38.1 | |
| 119 2-Chlorotoluene | 126 | 12.958 | 12.963 | -0.005 | 91 | 224099 | 5.01 | |
| 121 1,3,5-Trimethylbenzene | 105 | 13.150 | 13.155 | -0.005 | 92 | 746870 | 4.43 | |
| 120 4-Chlorotoluene | 126 | 13.184 | 13.190 | -0.006 | 98 | 210410 | 4.43 | |
| 122 tert-Butylbenzene | 119 | 13.689 | 13.694 | -0.005 | 90 | 702379 | 4.40 | |
| 123 1,2,4-Trimethylbenzene | 105 | 13.811 | 13.816 | -0.005 | 86 | 709680 | 4.32 | |
| 124 sec-Butylbenzene | 134 | 14.089 | 14.094 | -0.005 | 94 | 213578 | 4.55 | |
| 125 1,3-Dichlorobenzene | 146 | 14.298 | 14.303 | -0.005 | 96 | 430255 | 4.43 | |
| 126 4-Isopropyltoluene | 119 | 14.368 | 14.373 | -0.005 | 95 | 873672 | 4.30 | |
| 127 1,4-Dichlorobenzene | 146 | 14.472 | 14.477 | -0.005 | 91 | 468695 | 4.59 | |
| 130 n-Butylbenzene | 91 | 15.098 | 15.121 | -0.023 | 95 | 963777 | 4.47 | |
| 129 1,2-Dichlorobenzene | 146 | 15.133 | 15.138 | -0.005 | 94 | 366120 | 4.39 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 16.438 | 16.443 | -0.005 | 75 | 35384 | 4.35 | |
| 132 1,2,4-Trichlorobenzene | 180 | 17.361 | 17.366 | -0.005 | 94 | 302786 | 4.49 | |
| 133 Hexachlorobutadiene | 225 | 17.500 | 17.505 | -0.005 | 95 | 277067 | 4.66 | |
| 134 Naphthalene | 128 | 17.604 | 17.609 | -0.005 | 97 | 284543 | 4.16 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 17.830 | 17.836 | -0.006 | 95 | 228740 | 4.23 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 9.08 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 13.3 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 9.05 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 17.8 | |

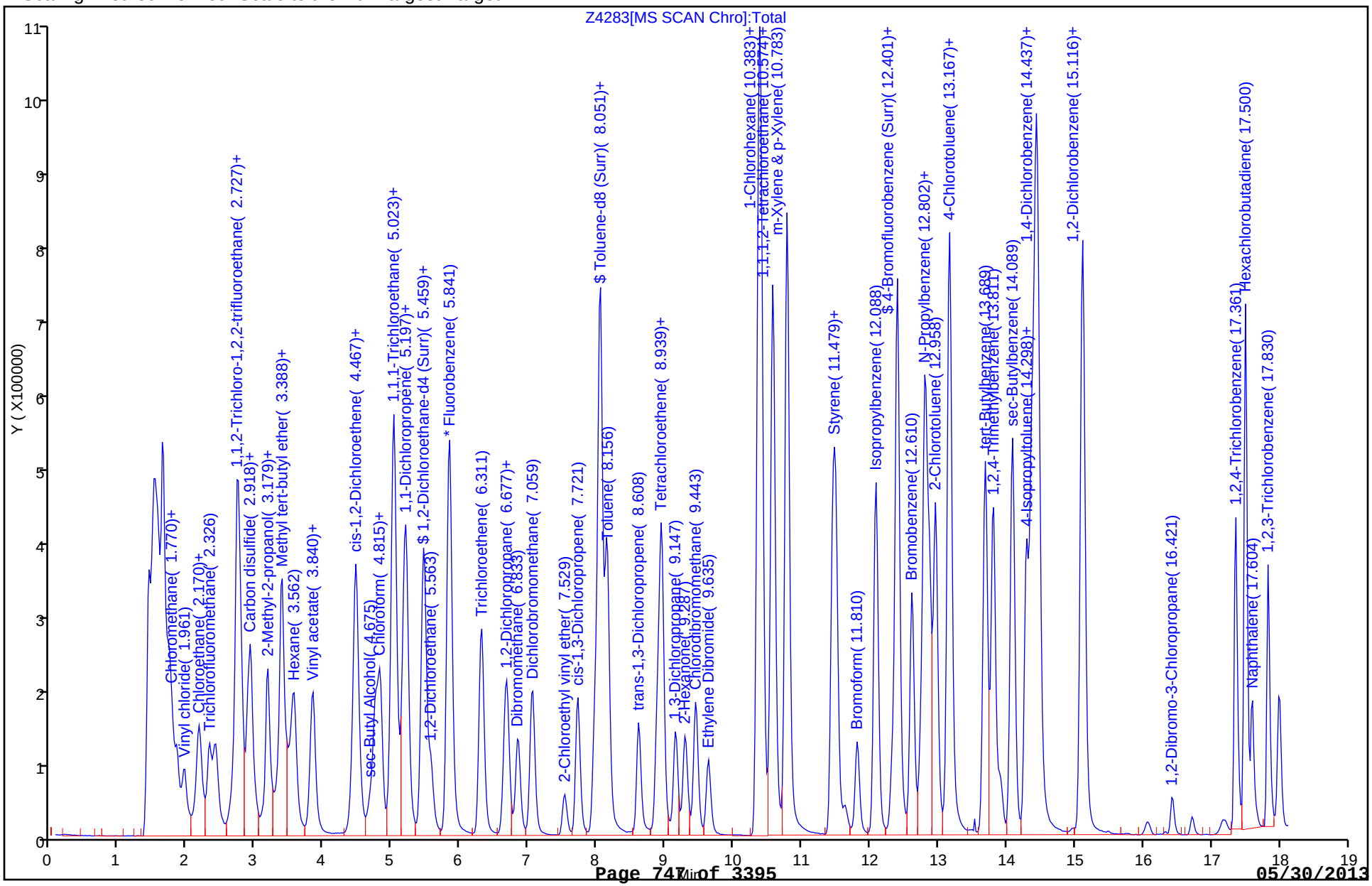
Report Date: 14-May-2013 16:48:49 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_Z\20130513-11574.b\Z4283.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-May-2013 22:59:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_Z |
| Lims Batch ID: | 174063 | Lims Sample ID: | 34 |
| Operator ID: | tinkhams | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (75.53) | Column Dia: | 0.53 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-174465/5

Matrix: Water | Lab File ID: g2_8397.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/15/2013 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174465 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.91 | | 1.0 | 0.20 | 0.17 |
| 71-55-6 | 1,1,1-Trichloroethane | 5.13 | | 1.0 | 0.20 | 0.16 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.98 | | 1.0 | 0.40 | 0.20 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.57 | | 3.0 | 2.8 | 0.79 |
| 79-00-5 | 1,1,2-Trichloroethane | 5.03 | | 1.0 | 0.40 | 0.32 |
| 75-34-3 | 1,1-Dichloroethane | 4.97 | | 1.0 | 0.20 | 0.16 |
| 75-35-4 | 1,1-Dichloroethene | 5.78 | | 1.0 | 0.20 | 0.14 |
| 563-58-6 | 1,1-Dichloropropene | 4.69 | | 1.0 | 0.40 | 0.15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.92 | | 1.0 | 0.40 | 0.18 |
| 96-18-4 | 1,2,3-Trichloropropane | 5.07 | | 3.0 | 0.80 | 0.77 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.95 | | 1.0 | 0.80 | 0.32 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.78 | | 1.0 | 0.20 | 0.14 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.69 | J | 5.0 | 1.6 | 0.81 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.99 | | 1.0 | 0.20 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 5.04 | | 1.0 | 0.20 | 0.13 |
| 78-87-5 | 1,2-Dichloropropane | 4.86 | | 1.0 | 0.20 | 0.13 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 4.84 | | 1.0 | 0.40 | 0.14 |
| 541-73-1 | 1,3-Dichlorobenzene | 5.00 | | 1.0 | 0.20 | 0.16 |
| 142-28-9 | 1,3-Dichloropropane | 4.91 | | 1.0 | 0.20 | 0.15 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.97 | | 1.0 | 0.40 | 0.16 |
| 544-10-5 | 1-Chlorohexane | 4.97 | | 1.0 | 0.20 | 0.17 |
| 594-20-7 | 2,2-Dichloropropane | 5.11 | | 1.0 | 0.40 | 0.20 |
| 78-93-3 | 2-Butanone (MEK) | 22.1 | | 6.0 | 3.2 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 4.76 | | 1.0 | 0.40 | 0.17 |
| 591-78-6 | 2-Hexanone | 17.7 | | 5.0 | 3.2 | 1.4 |
| 106-43-4 | 4-Chlorotoluene | 4.96 | | 1.0 | 0.40 | 0.17 |
| 99-87-6 | 4-Isopropyltoluene | 4.72 | | 1.0 | 0.40 | 0.17 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 18.8 | | 5.0 | 3.2 | 1.0 |
| 67-64-1 | Acetone | 21.1 | | 10 | 6.4 | 1.9 |
| 71-43-2 | Benzene | 4.89 | | 1.0 | 0.20 | 0.16 |
| 108-86-1 | Bromobenzene | 5.06 | | 1.0 | 0.20 | 0.17 |
| 75-25-2 | Bromoform | 4.83 | | 1.0 | 0.40 | 0.19 |
| 74-83-9 | Bromomethane | 4.91 | | 2.0 | 0.40 | 0.21 |
| 75-15-0 | Carbon disulfide | 3.14 | | 2.0 | 0.80 | 0.45 |
| 56-23-5 | Carbon tetrachloride | 5.02 | | 2.0 | 0.40 | 0.19 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-174465/5

Matrix: Water | Lab File ID: g2_8397.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/15/2013 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174465 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | 4.94 | | 1.0 | 0.20 | 0.17 |
| 74-97-5 | Chlorobromomethane | 5.00 | | 1.0 | 0.20 | 0.10 |
| 124-48-1 | Chlorodibromomethane | 5.02 | | 1.0 | 0.40 | 0.17 |
| 75-00-3 | Chloroethane | 4.94 | | 2.0 | 1.6 | 0.41 |
| 67-66-3 | Chloroform | 4.98 | | 1.0 | 0.20 | 0.16 |
| 74-87-3 | Chloromethane | 4.84 | | 2.0 | 0.80 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.94 | | 1.0 | 0.20 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.82 | | 1.0 | 0.20 | 0.16 |
| 74-95-3 | Dibromomethane | 5.12 | | 1.0 | 0.40 | 0.17 |
| 75-27-4 | Dichlorobromomethane | 4.92 | | 1.0 | 0.20 | 0.17 |
| 75-71-8 | Dichlorodifluoromethane | 4.74 | | 2.0 | 0.80 | 0.31 |
| 100-41-4 | Ethylbenzene | 4.89 | | 1.0 | 0.20 | 0.16 |
| 106-93-4 | Ethylene Dibromide | 5.03 | | 1.0 | 0.20 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 4.91 | | 1.0 | 0.40 | 0.36 |
| 98-82-8 | Isopropylbenzene | 4.91 | | 1.0 | 0.40 | 0.19 |
| 1634-04-4 | Methyl tert-butyl ether | 5.24 | | 5.0 | 0.40 | 0.25 |
| 75-09-2 | Methylene Chloride | 5.01 | | 5.0 | 0.40 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 10.0 | | 2.0 | 0.80 | 0.34 |
| 91-20-3 | Naphthalene | 4.68 | | 1.0 | 0.80 | 0.22 |
| 104-51-8 | n-Butylbenzene | 4.77 | | 1.0 | 0.40 | 0.32 |
| 103-65-1 | N-Propylbenzene | 4.68 | | 1.0 | 0.20 | 0.16 |
| 95-47-6 | o-Xylene | 4.84 | | 1.0 | 0.40 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 4.91 | | 1.0 | 0.40 | 0.17 |
| 100-42-5 | Styrene | 4.95 | | 1.0 | 0.40 | 0.17 |
| 98-06-6 | tert-Butylbenzene | 4.79 | | 1.0 | 0.40 | 0.16 |
| 127-18-4 | Tetrachloroethene | 5.09 | | 1.0 | 0.40 | 0.20 |
| 108-88-3 | Toluene | 5.13 | | 1.0 | 0.40 | 0.17 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.12 | | 1.0 | 0.20 | 0.15 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.04 | | 1.0 | 0.40 | 0.19 |
| 79-01-6 | Trichloroethene | 4.91 | | 1.0 | 0.20 | 0.16 |
| 75-69-4 | Trichlorofluoromethane | 5.10 | | 2.0 | 0.80 | 0.29 |
| 75-01-4 | Vinyl chloride | 4.89 | | 1.5 | 0.40 | 0.10 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-174465/5

Matrix: Water Lab File ID: g2_8397.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 05/15/2013 20:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 174465 Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 118 | | 70-120 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 75-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 114 | | 85-115 |
| 2037-26-5 | Toluene-d8 (Surr) | 102 | | 85-120 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8397.D
Lims ID: LCS Client ID:
Inject. Date: 15-May-2013 20:53:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS
Misc. Info.:
Operator: moanm Instrument ID: VMS_G2
Purge Vol: 20.000 mL ALS Bottle#: 6
Lims Batch ID: 174465 Lims Sample ID: 5
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\AQ_VMSG2_8260.m
Last Update: 16-May-2013 17:07:56 Calib Date: 10-May-2013 10:10:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130510-11491.b\g2_8155.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: DENPC371

First Level Reviewer: moanm Date: 15-May-2013 21:11:35

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.648 | 7.648 | 0.0 | 99 | 1867555 | 12.5 | |
| * 2 Chlorobenzene-d5 | 119 | 9.915 | 9.915 | 0.0 | 83 | 385867 | 12.5 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.745 | 11.752 | -0.007 | 95 | 534956 | 12.5 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.091 | 7.091 | 0.0 | 66 | 379896 | 14.3 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.384 | 7.384 | 0.0 | 91 | 333830 | 14.7 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.835 | 8.835 | 0.0 | 93 | 1753324 | 12.8 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.780 | 10.780 | 0.0 | 86 | 544885 | 12.1 | |
| 25 Dichlorodifluoromethane | 85 | 3.951 | 3.951 | 0.0 | 87 | 221783 | 4.74 | |
| 27 Chloromethane | 50 | 4.160 | 4.160 | 0.0 | 89 | 230861 | 4.84 | |
| 28 Vinyl chloride | 62 | 4.300 | 4.300 | 0.0 | 84 | 247112 | 4.89 | |
| 31 Bromomethane | 94 | 4.663 | 4.677 | -0.014 | 88 | 169351 | 4.91 | |
| 32 Chloroethane | 64 | 4.747 | 4.747 | 0.0 | 95 | 163392 | 4.94 | |
| 35 Trichlorofluoromethane | 101 | 5.012 | 5.026 | -0.014 | 83 | 314749 | 5.10 | |
| 42 Acetone | 43 | 5.403 | 5.389 | 0.014 | 95 | 73768 | 21.1 | |
| 43 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.417 | 5.417 | 0.0 | 85 | 136477 | 4.57 | |
| 45 1,1-Dichloroethene | 96 | 5.445 | 5.445 | 0.0 | 90 | 216749 | 5.78 | |
| 47 Iodomethane | 142 | 5.613 | 5.613 | 0.0 | 97 | 296216 | 5.80 | |
| 50 Carbon disulfide | 76 | 5.725 | 5.725 | 0.0 | 99 | 515616 | 3.14 | |
| 51 2-Methyl-2-propanol | 59 | 5.739 | 5.739 | 0.0 | 92 | 71127 | 81.9 | |
| 52 Methylene Chloride | 84 | 5.781 | 5.780 | 0.001 | 89 | 228957 | 5.01 | |
| 54 Methyl tert-butyl ether | 73 | 5.976 | 5.976 | 0.0 | 88 | 290166 | 5.24 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.018 | 6.004 | 0.014 | 95 | 260633 | 5.12 | |
| 56 Hexane | 57 | 6.190 | 6.190 | 0.0 | 93 | 238991 | 3.16 | |
| 57 Vinyl acetate | 43 | 6.261 | 6.261 | 0.0 | 90 | 112466 | 4.36 | |
| 59 1,1-Dichloroethane | 63 | 6.333 | 6.333 | 0.0 | 85 | 373309 | 4.97 | |
| 62 2-Butanone (MEK) | 43 | 6.697 | 6.697 | 0.0 | 93 | 110290 | 22.1 | |
| 65 sec-Butyl Alcohol | 45 | 6.740 | 6.740 | 0.0 | 57 | 77854 | 114.5 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.762 | 6.762 | 0.0 | 68 | 204885 | 4.94 | |
| 67 2,2-Dichloropropane | 77 | 6.797 | 6.797 | 0.0 | 88 | 294389 | 5.11 | |
| 69 Chlorobromomethane | 128 | 6.955 | 6.955 | 0.0 | 92 | 67592 | 5.00 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 70 Chloroform | 83 | 6.969 | 6.969 | 0.0 | 81 | 324931 | 4.98 | |
| 73 1,1,1-Trichloroethane | 97 | 7.198 | 7.198 | 0.0 | 91 | 310444 | 5.13 | |
| 75 1,1-Dichloropropene | 75 | 7.298 | 7.298 | 0.0 | 92 | 308509 | 4.69 | |
| 76 Carbon tetrachloride | 117 | 7.341 | 7.341 | 0.0 | 75 | 254818 | 5.02 | |
| 77 1,2-Dichloroethane | 62 | 7.441 | 7.441 | 0.0 | 86 | 167232 | 5.04 | |
| 79 Benzene | 78 | 7.477 | 7.477 | 0.0 | 95 | 818216 | 4.89 | |
| 81 Trichloroethene | 95 | 7.941 | 7.941 | 0.0 | 95 | 209567 | 4.91 | |
| 82 2-Pentanone | 43 | 7.963 | 7.963 | 0.0 | 83 | 56225 | 6.15 | |
| 84 1,2-Dichloropropane | 63 | 8.113 | 8.120 | -0.007 | 93 | 172099 | 4.86 | |
| 87 Dibromomethane | 93 | 8.213 | 8.213 | 0.0 | 87 | 62774 | 5.12 | |
| 88 Dichlorobromomethane | 83 | 8.285 | 8.285 | 0.0 | 92 | 178602 | 4.92 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.428 | 8.428 | 0.0 | 86 | 31432 | 3.59 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.606 | 8.606 | 0.0 | 88 | 213210 | 4.82 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.656 | 8.656 | 0.0 | 96 | 213647 | 18.8 | |
| 93 Toluene | 91 | 8.892 | 8.892 | 0.0 | 98 | 889954 | 5.13 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.978 | 8.978 | 0.0 | 90 | 159426 | 5.04 | |
| 96 1,1,2-Trichloroethane | 97 | 9.135 | 9.135 | 0.0 | 86 | 86377 | 5.03 | |
| 97 2-Hexanone | 43 | 9.250 | 9.250 | 0.0 | 96 | 134960 | 17.7 | |
| 98 1,3-Dichloropropane | 76 | 9.271 | 9.271 | 0.0 | 90 | 168037 | 4.91 | |
| 99 Tetrachloroethene | 164 | 9.307 | 9.307 | 0.0 | 91 | 169160 | 5.09 | |
| 100 Chlorodibromomethane | 129 | 9.464 | 9.464 | 0.0 | 88 | 91035 | 5.02 | |
| 102 Ethylene Dibromide | 107 | 9.593 | 9.593 | 0.0 | 96 | 79297 | 5.03 | |
| 103 1-Chlorohexane | 91 | 9.829 | 9.829 | 0.0 | 98 | 303058 | 4.97 | |
| 104 Chlorobenzene | 112 | 9.936 | 9.936 | 0.0 | 93 | 510746 | 4.94 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.972 | 9.972 | 0.0 | 66 | 144470 | 4.91 | |
| 106 Ethylbenzene | 106 | 9.979 | 9.979 | 0.0 | 98 | 312201 | 4.89 | |
| 107 m-Xylene & p-Xylene | 106 | 10.051 | 10.051 | 0.0 | 99 | 768522 | 10.0 | |
| 109 Styrene | 104 | 10.372 | 10.372 | 0.0 | 87 | 526148 | 4.95 | |
| 108 o-Xylene | 106 | 10.372 | 10.372 | 0.0 | 89 | 348078 | 4.84 | |
| 110 Bromoform | 173 | 10.566 | 10.565 | 0.001 | 95 | 39291 | 4.83 | |
| 111 Isopropylbenzene | 105 | 10.637 | 10.637 | 0.0 | 96 | 997501 | 4.91 | |
| 113 Cyclohexanone | 55 | 10.751 | 10.751 | 0.0 | 87 | 104096 | 275.9 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.823 | 10.830 | -0.007 | 73 | 89213 | 4.98 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.859 | 10.859 | 0.0 | 84 | 91153 | 31.1 | |
| 116 1,2,3-Trichloropropane | 110 | 10.902 | 10.902 | 0.0 | 69 | 23313 | 5.07 | |
| 118 N-Propylbenzene | 120 | 10.952 | 10.952 | 0.0 | 96 | 273197 | 4.68 | |
| 117 Bromobenzene | 156 | 10.952 | 10.952 | 0.0 | 97 | 183243 | 5.06 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.066 | 11.066 | 0.0 | 92 | 790616 | 4.84 | |
| 120 2-Chlorotoluene | 126 | 11.073 | 11.073 | 0.0 | 94 | 221730 | 4.76 | |
| 121 4-Chlorotoluene | 126 | 11.152 | 11.152 | 0.0 | 98 | 220020 | 4.96 | |
| 122 tert-Butylbenzene | 119 | 11.359 | 11.359 | 0.0 | 90 | 777856 | 4.79 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.388 | 11.388 | 0.0 | 97 | 765325 | 4.78 | |
| 124 sec-Butylbenzene | 134 | 11.545 | 11.545 | 0.0 | 94 | 227036 | 4.91 | |
| 125 4-Isopropyltoluene | 119 | 11.638 | 11.631 | 0.007 | 96 | 866922 | 4.72 | |
| 126 1,3-Dichlorobenzene | 146 | 11.702 | 11.702 | 0.0 | 89 | 380000 | 5.00 | |
| 127 1,4-Dichlorobenzene | 146 | 11.767 | 11.767 | 0.0 | 92 | 368481 | 4.97 | |
| 129 n-Butylbenzene | 91 | 12.003 | 12.003 | 0.0 | 97 | 903164 | 4.77 | |
| 130 1,2-Dichlorobenzene | 146 | 12.131 | 12.131 | 0.0 | 96 | 302038 | 4.99 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.861 | 12.861 | 0.0 | 39 | 10074 | 4.69 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.826 | 13.826 | 0.0 | 92 | 207768 | 4.95 | |
| 133 Hexachlorobutadiene | 225 | 13.983 | 13.983 | 0.0 | 95 | 151634 | 4.91 | |
| 134 Naphthalene | 128 | 14.184 | 14.183 | 0.001 | 95 | 250861 | 4.68 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 14.505 | 14.505 | 0.0 | 92 | 162966 | 4.92 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 9.86 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 10.1 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 14.8 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 19.7 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 14.8 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 10.1 | |

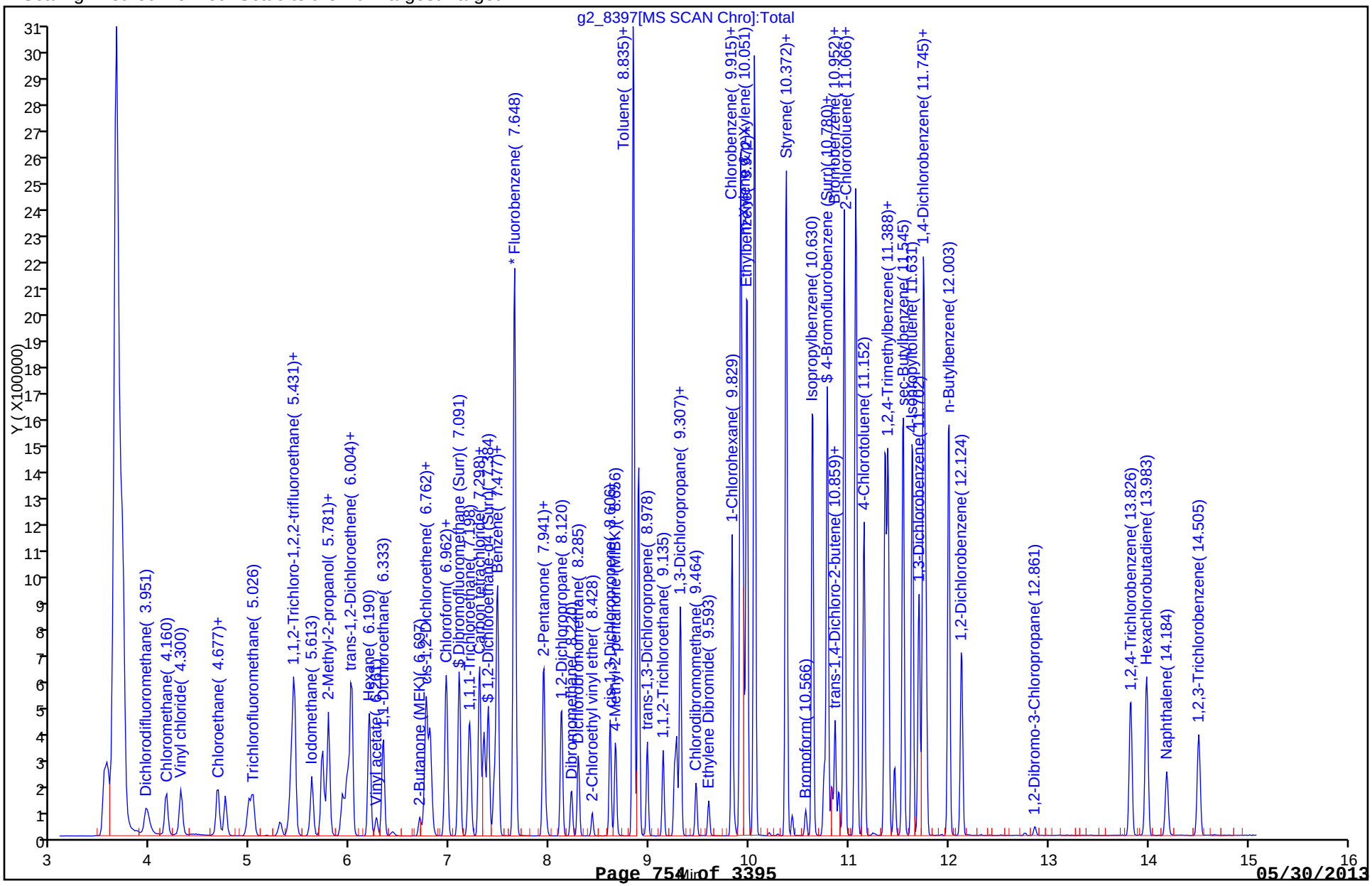
Report Date: 16-May-2013 17:07:58 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130515-11657.b\g2_8397.D

| | | | |
|---|---|---|---|
| Injection Date: | 15-May-2013 20:53:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174465 | Lims Sample ID: | 5 |
| Operator ID: | moanm | Purge Vol: | 20.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-174775/2-A

Matrix: Solid | Lab File ID: g2_8491.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/17/2013 09:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 47.3 | | 5.0 | 1.0 | 0.56 |
| 71-55-6 | 1,1,1-Trichloroethane | 55.5 | | 5.0 | 1.0 | 0.52 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 47.8 | | 5.0 | 1.0 | 0.61 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 59.7 | | 20 | 20 | 0.45 |
| 79-00-5 | 1,1,2-Trichloroethane | 50.5 | | 5.0 | 1.0 | 0.88 |
| 75-34-3 | 1,1-Dichloroethane | 50.9 | | 5.0 | 0.80 | 0.21 |
| 75-35-4 | 1,1-Dichloroethene | 55.0 | | 5.0 | 1.0 | 0.59 |
| 563-58-6 | 1,1-Dichloropropene | 48.6 | | 5.0 | 1.0 | 0.54 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 46.8 | | 5.0 | 1.0 | 0.75 |
| 96-18-4 | 1,2,3-Trichloropropane | 47.3 | | 5.0 | 1.0 | 0.81 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 48.6 | | 5.0 | 1.0 | 0.73 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 49.3 | | 5.0 | 1.0 | 0.58 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 48.7 | | 10 | 1.0 | 0.60 |
| 95-50-1 | 1,2-Dichlorobenzene | 49.3 | | 5.0 | 1.0 | 0.45 |
| 107-06-2 | 1,2-Dichloroethane | 50.4 | | 5.0 | 1.0 | 0.70 |
| 78-87-5 | 1,2-Dichloropropane | 49.9 | | 5.0 | 1.0 | 0.55 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 47.1 | | 5.0 | 1.0 | 0.57 |
| 541-73-1 | 1,3-Dichlorobenzene | 50.0 | | 5.0 | 1.0 | 0.48 |
| 142-28-9 | 1,3-Dichloropropane | 46.5 | | 5.0 | 1.0 | 0.51 |
| 106-46-7 | 1,4-Dichlorobenzene | 49.9 | | 5.0 | 1.0 | 0.78 |
| 544-10-5 | 1-Chlorohexane | 49.5 | | 5.0 | 0.80 | 0.63 |
| 594-20-7 | 2,2-Dichloropropane | 55.0 | | 5.0 | 1.0 | 0.44 |
| 78-93-3 | 2-Butanone (MEK) | 222 | | 20 | 6.4 | 1.8 |
| 95-49-8 | 2-Chlorotoluene | 49.6 | | 5.0 | 1.0 | 0.51 |
| 591-78-6 | 2-Hexanone | 186 | | 20 | 10 | 4.9 |
| 106-43-4 | 4-Chlorotoluene | 50.1 | | 5.0 | 1.0 | 0.78 |
| 99-87-6 | 4-Isopropyltoluene | 47.0 | | 5.0 | 1.0 | 0.49 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 193 | | 20 | 10 | 4.4 |
| 67-64-1 | Acetone | 173 | | 20 | 10 | 5.4 |
| 71-43-2 | Benzene | 50.7 | | 5.0 | 1.0 | 0.47 |
| 108-86-1 | Bromobenzene | 49.0 | | 5.0 | 1.0 | 0.49 |
| 75-25-2 | Bromoform | 43.9 | | 5.0 | 0.80 | 0.23 |
| 74-83-9 | Bromomethane | 45.4 | | 10 | 1.0 | 0.50 |
| 75-15-0 | Carbon disulfide | 50.0 | | 5.0 | 1.0 | 0.42 |
| 56-23-5 | Carbon tetrachloride | 53.3 | | 5.0 | 1.0 | 0.63 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-42039-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-174775/2-A

Matrix: Solid | Lab File ID: g2_8491.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/17/2013 09:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 174695 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | 49.3 | | 5.0 | 1.0 | 0.54 |
| 74-97-5 | Chlorobromomethane | 53.8 | | 5.0 | 1.0 | 0.30 |
| 124-48-1 | Chlorodibromomethane | 50.5 | | 5.0 | 1.0 | 0.57 |
| 75-00-3 | Chloroethane | 47.7 | | 10 | 1.0 | 0.89 |
| 67-66-3 | Chloroform | 52.2 | | 10 | 1.0 | 0.29 |
| 74-87-3 | Chloromethane | 47.4 | | 10 | 1.0 | 0.77 |
| 156-59-2 | cis-1,2-Dichloroethene | 52.8 | | 5.0 | 1.0 | 0.56 |
| 10061-01-5 | cis-1,3-Dichloropropene | 46.6 | | 5.0 | 2.0 | 1.3 |
| 74-95-3 | Dibromomethane | 51.6 | | 5.0 | 1.0 | 0.84 |
| 75-27-4 | Dichlorobromomethane | 51.4 | | 5.0 | 0.80 | 0.22 |
| 75-71-8 | Dichlorodifluoromethane | 45.0 | | 10 | 1.0 | 0.52 |
| 100-41-4 | Ethylbenzene | 49.9 | | 5.0 | 1.0 | 0.67 |
| 106-93-4 | Ethylene Dibromide | 48.7 | | 5.0 | 1.0 | 0.52 |
| 87-68-3 | Hexachlorobutadiene | 47.5 | | 5.0 | 1.0 | 0.55 |
| 98-82-8 | Isopropylbenzene | 49.8 | | 5.0 | 1.0 | 0.59 |
| 1634-04-4 | Methyl tert-butyl ether | 53.5 | | 20 | 1.0 | 0.34 |
| 75-09-2 | Methylene Chloride | 45.2 | | 5.0 | 3.2 | 1.6 |
| 179601-23-1 | m-Xylene & p-Xylene | 100 | | 3.2 | 2.0 | 1.0 |
| 91-20-3 | Naphthalene | 45.6 | | 5.0 | 1.0 | 0.63 |
| 104-51-8 | n-Butylbenzene | 49.3 | | 5.0 | 1.0 | 0.56 |
| 103-65-1 | N-Propylbenzene | 49.5 | | 5.0 | 1.0 | 0.58 |
| 95-47-6 | o-Xylene | 50.1 | | 5.0 | 1.0 | 0.61 |
| 135-98-8 | sec-Butylbenzene | 48.1 | | 5.0 | 1.0 | 0.77 |
| 100-42-5 | Styrene | 49.9 | | 5.0 | 1.0 | 0.63 |
| 98-06-6 | tert-Butylbenzene | 50.4 | | 5.0 | 1.0 | 0.50 |
| 127-18-4 | Tetrachloroethene | 51.4 | | 5.0 | 1.0 | 0.59 |
| 108-88-3 | Toluene | 52.4 | | 5.0 | 1.0 | 0.69 |
| 156-60-5 | trans-1,2-Dichloroethene | 55.3 | | 5.0 | 1.0 | 0.39 |
| 10061-02-6 | trans-1,3-Dichloropropene | 47.1 | | 5.0 | 1.0 | 0.67 |
| 79-01-6 | Trichloroethene | 51.7 | | 5.0 | 0.80 | 0.23 |
| 75-69-4 | Trichlorofluoromethane | 51.3 | | 10 | 2.0 | 1.0 |
| 75-01-4 | Vinyl chloride | 48.0 | | 5.0 | 2.0 | 1.3 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-174775/2-A

Matrix: Solid Lab File ID: g2_8491.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 05/17/2013 09:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 174695 Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 61-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 85-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 111 | | 71-126 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 85-115 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8491.D
Lims ID: LCS Client ID:
Inject. Date: 17-May-2013 09:02:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS
Misc. Info.:
Operator: meierg Instrument ID: VMS_G2
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 174695 Lims Sample ID: 7
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\SO_VMSG2_8260.m
Last Update: 18-May-2013 06:26:33 Calib Date: 10-May-2013 03:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_G2\20130509-11481.b\g2_8142.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (60.25) Column Dia: 0.25 mm
Process Host: XAWRK024

First Level Reviewer: meierg Date: 17-May-2013 09:41:35

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 7.645 | 7.638 | 0.007 | 99 | 2706177 | 50.0 | |
| * 2 Chlorobenzene-d5 | 119 | 9.905 | 9.905 | 0.0 | 83 | 648950 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.742 | 11.743 | -0.001 | 91 | 1005079 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 111 | 7.088 | 7.088 | 0.0 | 78 | 684527 | 60.9 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 7.381 | 7.374 | 0.007 | 99 | 798585 | 55.8 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.832 | 8.832 | 0.0 | 93 | 2710623 | 55.3 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 10.777 | 10.777 | 0.0 | 86 | 941359 | 53.5 | |
| 25 Dichlorodifluoromethane | 85 | 3.948 | 3.948 | 0.0 | 87 | 673360 | 45.0 | |
| 27 Chloromethane | 50 | 4.158 | 4.157 | 0.001 | 89 | 712014 | 47.4 | |
| 28 Vinyl chloride | 62 | 4.311 | 4.297 | 0.014 | 84 | 751933 | 48.0 | |
| 31 Bromomethane | 94 | 4.674 | 4.674 | 0.0 | 89 | 550428 | 45.4 | |
| 32 Chloroethane | 64 | 4.744 | 4.744 | 0.0 | 95 | 486348 | 47.7 | |
| 35 Trichlorofluoromethane | 101 | 5.024 | 5.009 | 0.015 | 99 | 971859 | 51.3 | |
| 42 Acetone | 43 | 5.387 | 5.387 | 0.001 | 98 | 852589 | 173.4 | |
| 44 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | 5.415 | 5.415 | 0.0 | 87 | 546204 | 59.7 | |
| 45 1,1-Dichloroethene | 96 | 5.442 | 5.428 | 0.014 | 96 | 652513 | 55.0 | |
| 47 Iodomethane | 142 | 5.610 | 5.610 | 0.0 | 97 | 996508 | 60.3 | |
| 50 Carbon disulfide | 76 | 5.722 | 5.708 | 0.014 | 99 | 2143053 | 50.0 | |
| 51 2-Methyl-2-propanol | 59 | 5.736 | 5.736 | 0.0 | 95 | 1637548 | 1003.4 | |
| 52 Methylene Chloride | 84 | 5.778 | 5.778 | 0.0 | 91 | 764537 | 45.2 | |
| 54 Methyl tert-butyl ether | 73 | 5.973 | 5.959 | 0.014 | 90 | 2029347 | 53.5 | |
| 55 trans-1,2-Dichloroethene | 96 | 6.001 | 6.001 | 0.0 | 96 | 828838 | 55.3 | |
| 56 Hexane | 57 | 6.187 | 6.187 | 0.0 | 93 | 920560 | 42.4 | |
| 57 Vinyl acetate | 43 | 6.258 | 6.258 | 0.0 | 97 | 1233491 | 49.9 | |
| 59 1,1-Dichloroethane | 63 | 6.330 | 6.322 | 0.008 | 97 | 1174001 | 50.9 | |
| 62 2-Butanone (MEK) | 43 | 6.694 | 6.687 | 0.007 | 100 | 1503301 | 222.3 | |
| 65 sec-Butyl Alcohol | 45 | 6.730 | 6.730 | 0.0 | 97 | 1767758 | 1614.7 | |
| 66 cis-1,2-Dichloroethene | 96 | 6.759 | 6.759 | 0.0 | 67 | 741454 | 52.8 | |
| 67 2,2-Dichloropropane | 77 | 6.794 | 6.794 | 0.0 | 89 | 929207 | 55.0 | |
| 69 Chlorobromomethane | 128 | 6.952 | 6.952 | 0.0 | 93 | 350701 | 53.8 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 70 Chloroform | 83 | 6.966 | 6.959 | 0.007 | 95 | 1142610 | 52.2 | |
| 73 1,1,1-Trichloroethane | 97 | 7.188 | 7.188 | 0.0 | 96 | 967620 | 55.5 | |
| 75 1,1-Dichloropropene | 75 | 7.295 | 7.288 | 0.007 | 92 | 909800 | 48.6 | |
| 76 Carbon tetrachloride | 117 | 7.338 | 7.338 | 0.0 | 78 | 791044 | 53.3 | |
| 77 1,2-Dichloroethane | 62 | 7.438 | 7.438 | 0.0 | 96 | 878776 | 50.4 | |
| 79 Benzene | 78 | 7.474 | 7.466 | 0.008 | 97 | 2626534 | 50.7 | |
| 81 Trichloroethene | 95 | 7.939 | 7.931 | 0.008 | 94 | 655999 | 51.7 | |
| 82 2-Pentanone | 43 | 7.960 | 7.960 | 0.0 | 99 | 971374 | 80.4 | |
| 84 1,2-Dichloropropane | 63 | 8.110 | 8.110 | 0.0 | 94 | 646987 | 49.9 | |
| 87 Dibromomethane | 93 | 8.210 | 8.210 | 0.0 | 88 | 384422 | 51.6 | |
| 88 Dichlorobromomethane | 83 | 8.282 | 8.282 | 0.0 | 96 | 823695 | 51.4 | |
| 90 2-Chloroethyl vinyl ether | 63 | 8.418 | 8.418 | 0.0 | 91 | 371118 | 42.0 | |
| 91 cis-1,3-Dichloropropene | 75 | 8.604 | 8.603 | 0.001 | 89 | 1012741 | 46.6 | |
| 92 4-Methyl-2-pentanone (MIBK) | 43 | 8.654 | 8.653 | 0.001 | 97 | 2600787 | 193.5 | |
| 93 Toluene | 91 | 8.882 | 8.882 | 0.0 | 98 | 2848211 | 52.4 | |
| 95 trans-1,3-Dichloropropene | 75 | 8.975 | 8.968 | 0.007 | 95 | 907166 | 47.1 | |
| 96 1,1,2-Trichloroethane | 97 | 9.133 | 9.132 | 0.001 | 86 | 550446 | 50.5 | |
| 97 2-Hexanone | 43 | 9.240 | 9.240 | 0.0 | 97 | 1901153 | 186.3 | |
| 98 1,3-Dichloropropane | 76 | 9.268 | 9.268 | 0.0 | 91 | 968019 | 46.5 | |
| 99 Tetrachloroethene | 164 | 9.304 | 9.304 | 0.0 | 92 | 539332 | 51.4 | |
| 100 Chlorodibromomethane | 129 | 9.462 | 9.461 | 0.001 | 89 | 589488 | 50.5 | |
| 102 Ethylene Dibromide | 107 | 9.590 | 9.583 | 0.007 | 98 | 566896 | 48.7 | |
| 103 1-Chlorohexane | 91 | 9.819 | 9.819 | 0.0 | 97 | 910601 | 49.5 | |
| 104 Chlorobenzene | 112 | 9.933 | 9.933 | 0.0 | 94 | 1812821 | 49.3 | |
| 106 Ethylbenzene | 106 | 9.969 | 9.969 | 0.0 | 97 | 1044962 | 49.9 | |
| 105 1,1,1,2-Tetrachloroethane | 131 | 9.969 | 9.969 | 0.0 | 92 | 606458 | 47.3 | |
| 107 m-Xylene & p-Xylene | 106 | 10.048 | 10.048 | 0.0 | 98 | 2550462 | 100.1 | |
| 109 Styrene | 104 | 10.362 | 10.362 | 0.0 | 89 | 2082792 | 49.9 | |
| 108 o-Xylene | 106 | 10.362 | 10.362 | 0.0 | 85 | 1268615 | 50.1 | |
| 110 Bromoform | 173 | 10.563 | 10.563 | 0.0 | 95 | 350670 | 43.9 | |
| 111 Isopropylbenzene | 105 | 10.627 | 10.627 | 0.0 | 96 | 3222803 | 49.8 | |
| 113 Cyclohexanone | 55 | 10.741 | 10.741 | 0.0 | 88 | 1183621 | 2300.6 | |
| 114 1,1,2,2-Tetrachloroethane | 83 | 10.820 | 10.820 | 0.0 | 84 | 778855 | 47.8 | |
| 115 trans-1,4-Dichloro-2-butene | 53 | 10.856 | 10.856 | 0.0 | 92 | 1193753 | 443.3 | E |
| 116 1,2,3-Trichloropropane | 110 | 10.892 | 10.891 | 0.001 | 71 | 219195 | 47.3 | |
| 117 Bromobenzene | 156 | 10.942 | 10.942 | 0.0 | 97 | 756158 | 49.0 | |
| 118 N-Propylbenzene | 120 | 10.949 | 10.949 | 0.0 | 95 | 897296 | 49.5 | |
| 119 1,3,5-Trimethylbenzene | 105 | 11.056 | 11.056 | 0.0 | 94 | 2646276 | 47.1 | |
| 120 2-Chlorotoluene | 126 | 11.070 | 11.070 | 0.0 | 96 | 767978 | 49.6 | |
| 121 4-Chlorotoluene | 126 | 11.142 | 11.142 | 0.0 | 98 | 763175 | 50.1 | |
| 122 tert-Butylbenzene | 119 | 11.356 | 11.356 | 0.0 | 93 | 2635116 | 50.4 | |
| 123 1,2,4-Trimethylbenzene | 105 | 11.385 | 11.385 | 0.0 | 97 | 2627103 | 49.3 | |
| 124 sec-Butylbenzene | 134 | 11.535 | 11.535 | 0.0 | 94 | 717747 | 48.1 | |
| 125 4-Isopropyltoluene | 119 | 11.628 | 11.628 | 0.0 | 95 | 2848241 | 47.0 | |
| 126 1,3-Dichlorobenzene | 146 | 11.692 | 11.692 | 0.0 | 84 | 1449712 | 50.0 | |
| 127 1,4-Dichlorobenzene | 146 | 11.764 | 11.764 | 0.0 | 94 | 1459684 | 49.9 | |
| 129 n-Butylbenzene | 91 | 11.993 | 11.993 | 0.0 | 95 | 2719521 | 49.3 | |
| 130 1,2-Dichlorobenzene | 146 | 12.121 | 12.121 | 0.0 | 97 | 1358738 | 49.3 | |
| 131 1,2-Dibromo-3-Chloropropane | 157 | 12.858 | 12.858 | 0.0 | 82 | 141824 | 48.7 | |
| 132 1,2,4-Trichlorobenzene | 180 | 13.816 | 13.809 | 0.007 | 93 | 890903 | 48.6 | |
| 133 Hexachlorobutadiene | 225 | 13.973 | 13.973 | 0.0 | 96 | 416825 | 47.5 | |
| 134 Naphthalene | 128 | 14.174 | 14.173 | 0.001 | 97 | 2270383 | 45.6 | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,2,3-Trichlorobenzene | 180 | 14.495 | 14.495 | 0.0 | 94 | 809708 | 46.8 | |
| S 136 Trihalomethanes, Total | 1 | | | | 0 | | 198.1 | |
| S 137 Xylenes, Total (URS) | 1 | | | | 0 | | 150.2 | |
| S 139 1,3-Dichloropropene, Total | 1 | | | | 0 | | 93.7 | |
| S 140 1,2-Dichloroethene, Total | 1 | | | | 0 | | 108.1 | |
| S 141 Xylenes, Total | 106 | | | | 0 | | 150.2 | |
| S 142 1,2-Dichloroethene, Total (URS) | 96 | | | | 0 | | 108.1 | |

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

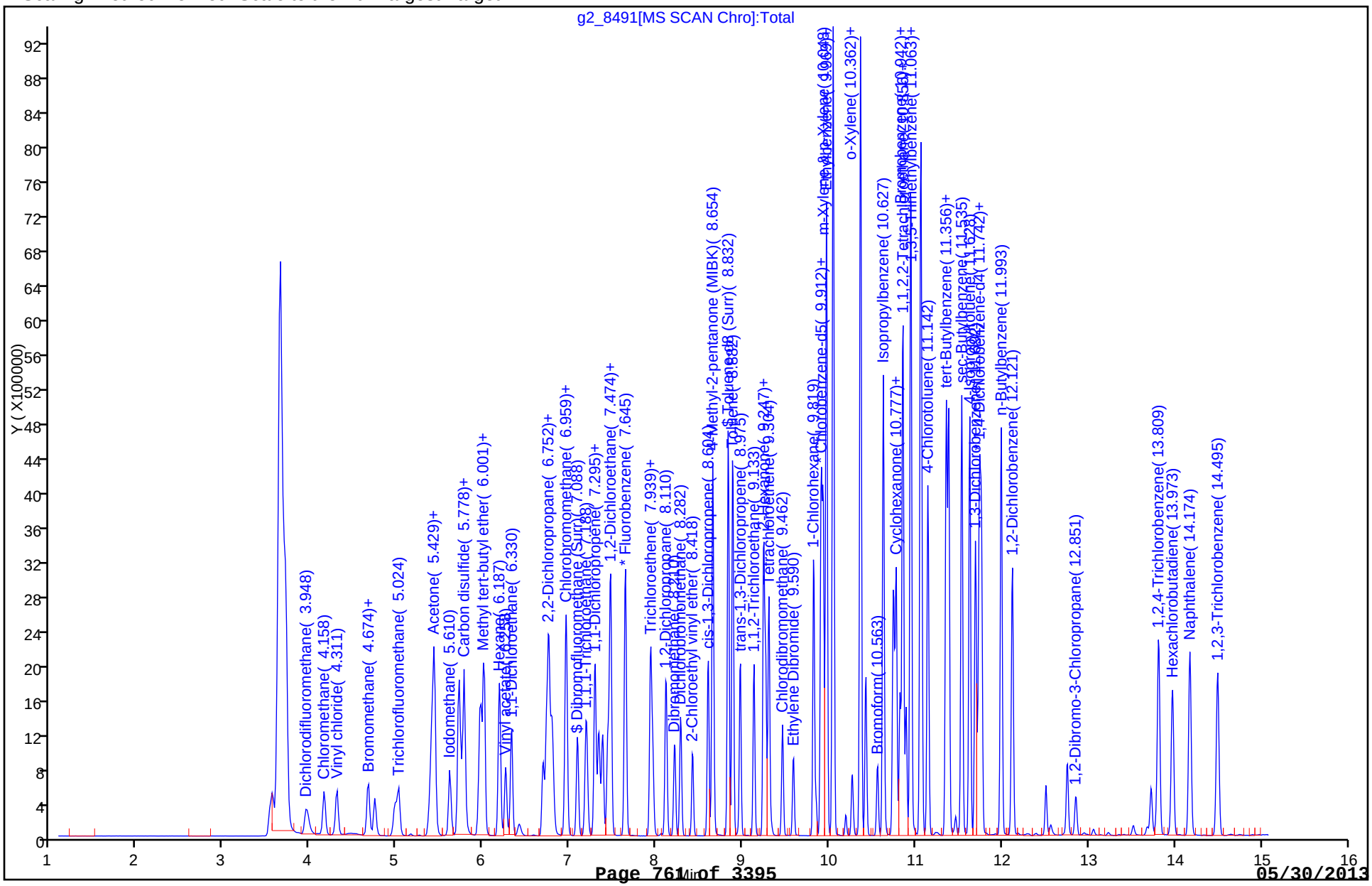
Report Date: 18-May-2013 06:26:35 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_G2\20130517-11709.b\g2_8491.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-May-2013 09:02:30 | Limit Group: | MSV - 8260B Water and Solid |
| Client ID: | | Instrument ID: | VMS_G2 |
| Lims Batch ID: | 174695 | Lims Sample ID: | 7 |
| Operator ID: | meierg | Purge Vol: | 5.000 mL |
| Column Type: | DB-624 (60.25) | Column Dia: | 0.25 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 05/09/2013 19:10

Analysis Batch Number: 173584 End Date: 05/10/2013 03:35

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-173584/1 | | 05/09/2013 19:10 | 1 | g2_8117.D | DB-624 (60.25) 0.25(mm) |
| STD001 280-173584/2 IC | | 05/09/2013 19:32 | 1 | g2_8118.D | DB-624 (60.25) 0.25(mm) |
| STD002 280-173584/5 IC | | 05/09/2013 19:51 | 1 | g2_8119.D | DB-624 (60.25) 0.25(mm) |
| STD005 280-173584/6 IC | | 05/09/2013 20:11 | 1 | g2_8120.D | DB-624 (60.25) 0.25(mm) |
| STD010 280-173584/7 IC | | 05/09/2013 20:30 | 1 | g2_8121.D | DB-624 (60.25) 0.25(mm) |
| STD020 280-173584/8 IC | | 05/09/2013 20:49 | 1 | g2_8122.D | DB-624 (60.25) 0.25(mm) |
| STD050 280-173584/9 IC | | 05/09/2013 21:09 | 1 | g2_8123.D | DB-624 (60.25) 0.25(mm) |
| STD100 280-173584/10 IC | | 05/09/2013 21:28 | 1 | g2_8124.D | DB-624 (60.25) 0.25(mm) |
| STD200 280-173584/11 IC | | 05/09/2013 21:47 | 1 | g2_8125.D | DB-624 (60.25) 0.25(mm) |
| STD001 280-173584/12 IC | | 05/09/2013 22:26 | 1 | g2_8127.D | DB-624 (60.25) 0.25(mm) |
| STD002 280-173584/13 IC | | 05/09/2013 22:45 | 1 | g2_8128.D | DB-624 (60.25) 0.25(mm) |
| STD005 280-173584/14 IC | | 05/09/2013 23:04 | 1 | g2_8129.D | DB-624 (60.25) 0.25(mm) |
| STD010 280-173584/15 IC | | 05/09/2013 23:24 | 1 | g2_8130.D | DB-624 (60.25) 0.25(mm) |
| STD020 280-173584/16 IC | | 05/09/2013 23:43 | 1 | g2_8131.D | DB-624 (60.25) 0.25(mm) |
| ICIS 280-173584/17 | | 05/10/2013 00:02 | 1 | g2_8132.D | DB-624 (60.25) 0.25(mm) |
| STD100 280-173584/18 IC | | 05/10/2013 00:22 | 1 | g2_8133.D | DB-624 (60.25) 0.25(mm) |
| STD200 280-173584/19 IC | | 05/10/2013 00:41 | 1 | g2_8134.D | DB-624 (60.25) 0.25(mm) |
| ICV 280-173584/20 | | 05/10/2013 01:01 | 1 | g2_8135.D | DB-624 (60.25) 0.25(mm) |
| ICV 280-173584/21 | | 05/10/2013 01:20 | 1 | g2_8136.D | DB-624 (60.25) 0.25(mm) |
| STD005 280-173584/22 IC | | 05/10/2013 01:39 | 1 | g2_8137.D | DB-624 (60.25) 0.25(mm) |
| STD010 280-173584/23 IC | | 05/10/2013 01:58 | 1 | g2_8138.D | DB-624 (60.25) 0.25(mm) |
| STD020 280-173584/24 IC | | 05/10/2013 02:18 | 1 | g2_8139.D | DB-624 (60.25) 0.25(mm) |
| STD050 280-173584/25 IC | | 05/10/2013 02:37 | 1 | g2_8140.D | DB-624 (60.25) 0.25(mm) |
| STD100 280-173584/26 IC | | 05/10/2013 02:56 | 1 | g2_8141.D | DB-624 (60.25) 0.25(mm) |
| STD200 280-173584/27 IC | | 05/10/2013 03:16 | 1 | g2_8142.D | DB-624 (60.25) 0.25(mm) |
| ICV 280-173584/28 | | 05/10/2013 03:35 | 1 | g2_8143.D | DB-624 (60.25) 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 05/17/2013 07:05

Analysis Batch Number: 174695 End Date: 05/17/2013 16:13

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-174695/1 | | 05/17/2013 07:05 | 1 | g2_8485.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174695/2 | | 05/17/2013 07:14 | 1 | g2_8486.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174695/3 | | 05/17/2013 07:33 | 1 | g2_8487.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174695/4 | | 05/17/2013 07:53 | 1 | g2_8488.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174695/5 | | 05/17/2013 08:23 | 1 | g2_8489.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174695/6 | | 05/17/2013 08:43 | 1 | | DB-624 (60.25) 0.25(mm) |
| LCS 280-174775/2-A | | 05/17/2013 09:02 | 1 | g2_8491.D | DB-624 (60.25) 0.25(mm) |
| MB 280-174775/1-A | | 05/17/2013 09:21 | 1 | g2_8492.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-1 | B255SCS0104AA | 05/17/2013 10:23 | 1 | g2_8495.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-2 | B255SCS0108AA | 05/17/2013 10:43 | 1 | g2_8496.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-3 | B255SCS0112AA | 05/17/2013 11:02 | 1 | g2_8497.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-4 | B255SCS0204AA | 05/17/2013 11:21 | 1 | g2_8498.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-5 | B255SCS0208AA | 05/17/2013 11:41 | 1 | g2_8499.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-6 | B255SCS0212AA | 05/17/2013 12:00 | 1 | g2_8500.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-7 | B255SCS0304AA | 05/17/2013 12:19 | 1 | g2_8501.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-8 | B255SCS0308AA | 05/17/2013 12:39 | 1 | g2_8502.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-9 | B255SCS0312AA | 05/17/2013 12:58 | 1 | g2_8503.D | DB-624 (60.25) 0.25(mm) |
| 280-42039-10 | B255SCS0104AC | 05/17/2013 13:18 | 1 | g2_8504.D | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/17/2013 13:37 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/17/2013 13:57 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/17/2013 14:16 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/17/2013 16:13 | 1 | | DB-624 (60.25) 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Start Date: 05/01/2013 19:59

Analysis Batch Number: 172220 End Date: 05/02/2013 05:32

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-172220/1 | | 05/01/2013 19:59 | 1 | Z3797.D | DB-624 (75.53) 0.53(mm) |
| CCV 280-172220/2 | | 05/01/2013 20:22 | 1 | | DB-624 (75.53) 0.53(mm) |
| CCV 280-172220/4 | | 05/01/2013 21:06 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD1 280-172220/35 IC | | 05/01/2013 21:57 | 1 | Z3802.D | DB-624 (75.53) 0.53(mm) |
| STD2 280-172220/36 IC | | 05/01/2013 22:19 | 1 | Z3803.D | DB-624 (75.53) 0.53(mm) |
| STD5 280-172220/37 IC | | 05/01/2013 22:42 | 1 | Z3804.D | DB-624 (75.53) 0.53(mm) |
| ICIS 280-172220/38 | | 05/01/2013 23:04 | 1 | Z3805.D | DB-624 (75.53) 0.53(mm) |
| STD30 280-172220/39 IC | | 05/01/2013 23:26 | 1 | Z3806.D | DB-624 (75.53) 0.53(mm) |
| STD60 280-172220/40 IC | | 05/01/2013 23:48 | 1 | Z3807.D | DB-624 (75.53) 0.53(mm) |
| ICV 280-172220/41 | | 05/02/2013 00:10 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 00:32 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 00:54 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 01:28 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 01:50 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 02:13 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 02:35 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 02:57 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 03:19 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 03:41 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 04:03 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 04:25 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 04:47 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 05:10 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/02/2013 05:32 | 1 | | DB-624 (75.53) 0.53(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 02/28/2013 07:37

Analysis Batch Number: 162427 End Date: 02/28/2013 13:31

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-162427/1 | | 02/28/2013 07:37 | 1 | g2_5567.D | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/8 | | 02/28/2013 08:01 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/9 | | 02/28/2013 08:20 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/10 | | 02/28/2013 08:39 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/11 | | 02/28/2013 08:57 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/12 | | 02/28/2013 09:16 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/13 | | 02/28/2013 09:35 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/14 | | 02/28/2013 09:54 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/16 | | 02/28/2013 10:31 | 1 | g2_5575.D | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/17 | | 02/28/2013 10:49 | 1 | g2_5576.D | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/18 | | 02/28/2013 11:08 | 1 | g2_5577.D | DB-624 (60.25) 0.25(mm) |
| ICIS 280-162427/19 | | 02/28/2013 11:27 | 1 | g2_5578.D | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/20 | | 02/28/2013 11:46 | 1 | g2_5579.D | DB-624 (60.25) 0.25(mm) |
| IC 280-162427/21 | | 02/28/2013 12:04 | 1 | g2_5580.D | DB-624 (60.25) 0.25(mm) |
| ICV 280-162427/15 | | 02/28/2013 12:35 | 1 | | DB-624 (60.25) 0.25(mm) |
| ICV 280-162427/22 | | 02/28/2013 12:53 | 1 | | DB-624 (60.25) 0.25(mm) |
| ICV 280-162427/23 | | 02/28/2013 13:12 | 1 | g2_5583.D | DB-624 (60.25) 0.25(mm) |
| ICV 280-162427/24 | | 02/28/2013 13:31 | 1 | | DB-624 (60.25) 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 04/30/2013 18:16

Analysis Batch Number: 171996 End Date: 05/01/2013 05:59

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-171996/1 | | 04/30/2013 18:16 | 1 | g2_7662.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-171996/2 | | 04/30/2013 18:39 | 1 | | DB-624 (60.25) 0.25(mm) |
| CCV 280-171996/3 | | 04/30/2013 18:58 | 1 | | DB-624 (60.25) 0.25(mm) |
| STD01 280-171996/4 IC | | 04/30/2013 19:18 | 1 | g2_7665.D | DB-624 (60.25) 0.25(mm) |
| STD02 280-171996/5 IC | | 04/30/2013 19:37 | 1 | g2_7666.D | DB-624 (60.25) 0.25(mm) |
| STD05 280-171996/6 IC | | 04/30/2013 19:56 | 1 | g2_7667.D | DB-624 (60.25) 0.25(mm) |
| ICIS 280-171996/7 | | 04/30/2013 20:15 | 1 | g2_7668.D | DB-624 (60.25) 0.25(mm) |
| STD30 280-171996/8 IC | | 04/30/2013 20:34 | 1 | g2_7669.D | DB-624 (60.25) 0.25(mm) |
| STD60 280-171996/9 IC | | 04/30/2013 20:53 | 1 | g2_7670.D | DB-624 (60.25) 0.25(mm) |
| ICV 280-171996/10 | | 04/30/2013 21:13 | 1 | g2_7671.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-171996/11 | | 04/30/2013 21:32 | 1 | | DB-624 (60.25) 0.25(mm) |
| CCV 280-171996/12 | | 04/30/2013 21:51 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 04/30/2013 22:11 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 04/30/2013 22:30 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 04/30/2013 22:50 | 10 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 04/30/2013 23:09 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 04/30/2013 23:29 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 04/30/2013 23:49 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 00:08 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 00:28 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 00:47 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 01:07 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 01:26 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 01:46 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 02:05 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 02:25 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 02:44 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 03:04 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 03:23 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 03:42 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 04:02 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 04:21 | 10 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 04:41 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 05:00 | 10 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 05:20 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 05:39 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/01/2013 05:59 | 10 | | DB-624 (60.25) 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 05/10/2013 07:11

Analysis Batch Number: 173622 End Date: 05/10/2013 18:27

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-173622/1 | | 05/10/2013 07:11 | 1 | g2_8146.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-173622/3 | | 05/10/2013 07:32 | 1 | | DB-624 (60.25) 0.25(mm) |
| CCV 280-173622/4 | | 05/10/2013 07:51 | 1 | | DB-624 (60.25) 0.25(mm) |
| IC 280-173622/9 | | 05/10/2013 08:14 | 1 | g2_8149.D | DB-624 (60.25) 0.25(mm) |
| IC 280-173622/10 | | 05/10/2013 08:33 | 1 | g2_8150.D | DB-624 (60.25) 0.25(mm) |
| IC 280-173622/11 | | 05/10/2013 08:52 | 1 | g2_8151.D | DB-624 (60.25) 0.25(mm) |
| IC 280-173622/12 | | 05/10/2013 09:12 | 1 | g2_8152.D | DB-624 (60.25) 0.25(mm) |
| IC 280-173622/13 | | 05/10/2013 09:31 | 1 | g2_8153.D | DB-624 (60.25) 0.25(mm) |
| IC 280-173622/14 | | 05/10/2013 09:51 | 1 | g2_8154.D | DB-624 (60.25) 0.25(mm) |
| IC 280-173622/15 | | 05/10/2013 10:10 | 1 | g2_8155.D | DB-624 (60.25) 0.25(mm) |
| ICV 280-173622/16 | | 05/10/2013 11:22 | 1 | g2_8157.D | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 11:41 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 12:01 | 1 | | DB-624 (60.25) 0.25(mm) |
| ICV 280-173622/17 | | 05/10/2013 12:20 | 1 | g2_8160.D | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 12:58 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 13:17 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 13:36 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 13:57 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 14:16 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 14:35 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 14:55 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 15:14 | 10 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 15:33 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 15:53 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 16:12 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 16:31 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 16:51 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 17:10 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 17:29 | 2 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 17:49 | 20 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 18:08 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/10/2013 18:27 | 1 | | DB-624 (60.25) 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 05/15/2013 19:32

Analysis Batch Number: 174465 End Date: 05/16/2013 03:24

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-174465/1 | | 05/15/2013 19:32 | 1 | g2_8393.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174465/4 | | 05/15/2013 19:54 | 1 | g2_8394.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174465/2 | | 05/15/2013 20:14 | 1 | g2_8395.D | DB-624 (60.25) 0.25(mm) |
| CCV 280-174465/3 | | 05/15/2013 20:33 | 1 | g2_8396.D | DB-624 (60.25) 0.25(mm) |
| LCS 280-174465/5 | | 05/15/2013 20:53 | 1 | g2_8397.D | DB-624 (60.25) 0.25(mm) |
| MB 280-174465/6 | | 05/15/2013 21:12 | 1 | g2_8398.D | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/15/2013 21:32 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/15/2013 21:51 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/15/2013 22:11 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/15/2013 22:31 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/15/2013 22:50 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/15/2013 23:10 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/15/2013 23:29 | 1 | | DB-624 (60.25) 0.25(mm) |
| 280-42039-13 | 050613AR | 05/15/2013 23:49 | 1 | g2_8406.D | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 00:11 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 00:30 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 00:49 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 01:09 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 01:28 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 01:48 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 02:07 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 02:26 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 02:46 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 03:05 | 1 | | DB-624 (60.25) 0.25(mm) |
| ZZZZZ | | 05/16/2013 03:24 | 1 | | DB-624 (60.25) 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Start Date: 05/08/2013 18:11

Analysis Batch Number: 173382 End Date: 05/09/2013 03:28

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-173382/1 | | 05/08/2013 18:11 | 1 | Z4053.D | DB-624 (75.53) 0.53(mm) |
| STD003 280-173382/7 IC | | 05/08/2013 19:19 | 1 | Z4056.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 19:19 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD01 280-173382/32 IC | | 05/08/2013 19:41 | 1 | Z4057.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 19:41 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD02 280-173382/33 IC | | 05/08/2013 20:04 | 1 | Z4058.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 20:04 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD05 280-173382/34 IC | | 05/08/2013 20:26 | 1 | Z4059.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 20:26 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD10 280-173382/35 IC | | 05/08/2013 20:48 | 1 | Z4060.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 20:48 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD30 280-173382/36 IC | | 05/08/2013 21:11 | 1 | Z4061.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 21:11 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD60 280-173382/37 IC | | 05/08/2013 21:33 | 1 | Z4062.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 21:33 | 1 | | DB-624 (75.53) 0.53(mm) |
| ICV 280-173382/38 | | 05/08/2013 22:17 | 1 | Z4064.D | DB-624 (75.53) 0.53(mm) |
| STD01 280-173382/39 IC | | 05/08/2013 22:40 | 1 | Z4065.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 22:40 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD02 280-173382/40 IC | | 05/08/2013 23:02 | 1 | Z4066.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 23:02 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD05 280-173382/41 IC | | 05/08/2013 23:24 | 1 | Z4067.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 23:24 | 1 | | DB-624 (75.53) 0.53(mm) |
| ICIS 280-173382/42 | | 05/08/2013 23:46 | 1 | Z4068.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/08/2013 23:46 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD30 280-173382/43 IC | | 05/09/2013 00:09 | 1 | Z4069.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 00:09 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD60 280-173382/44 IC | | 05/09/2013 00:31 | 1 | Z4070.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 00:31 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD01 280-173382/45 IC | | 05/09/2013 00:53 | 1 | Z4071.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 00:53 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD02 280-173382/46 IC | | 05/09/2013 01:15 | 1 | Z4072.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 01:15 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD05 280-173382/47 IC | | 05/09/2013 01:37 | 1 | Z4073.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 01:37 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD10 280-173382/48 IC | | 05/09/2013 02:00 | 1 | Z4074.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 02:00 | 1 | | DB-624 (75.53) 0.53(mm) |
| STD30 280-173382/49 IC | | 05/09/2013 02:22 | 1 | Z4075.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 02:22 | 1 | | DB-624 (75.53) 0.53(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Start Date: 05/08/2013 18:11

Analysis Batch Number: 173382 End Date: 05/09/2013 03:28

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD60 280-173382/50 IC | | 05/09/2013 02:44 | 1 | Z4076.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/09/2013 02:44 | 1 | | DB-624 (75.53) 0.53(mm) |
| ICV 280-173382/51 | | 05/09/2013 03:06 | 1 | Z4077.D | DB-624 (75.53) 0.53(mm) |
| ICV 280-173382/52 | | 05/09/2013 03:28 | 1 | Z4078.D | DB-624 (75.53) 0.53(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Start Date: 05/10/2013 19:02

Analysis Batch Number: 173812 End Date: 05/11/2013 07:18

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-173812/1 | | 05/10/2013 19:02 | 1 | Z4173.D | DB-624 (75.53) 0.53(mm) |
| CCV 280-173812/2 | | 05/10/2013 19:28 | 1 | Z4174.D | DB-624 (75.53) 0.53(mm) |
| CCV 280-173812/3 | | 05/10/2013 19:50 | 1 | Z4175.D | DB-624 (75.53) 0.53(mm) |
| CCV 280-173812/4 | | 05/10/2013 20:12 | 1 | Z4176.D | DB-624 (75.53) 0.53(mm) |
| LCS 280-173812/5 | | 05/10/2013 20:35 | 1 | Z4177.D | DB-624 (75.53) 0.53(mm) |
| MB 280-173812/6 | | 05/10/2013 20:57 | 1 | Z4178.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 21:19 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 21:42 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 22:04 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 22:26 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 22:48 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 23:10 | 5 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 23:32 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/10/2013 23:54 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 00:17 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 00:39 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 01:01 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 01:24 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 01:46 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 02:08 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 02:30 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 02:52 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 03:14 | 2 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 03:36 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 03:59 | 2 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 04:21 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 04:43 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 05:05 | 10 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 05:27 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 05:50 | 10 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 06:12 | 100 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 06:34 | 1 | | DB-624 (75.53) 0.53(mm) |
| 280-42039-11 | 050613AE | 05/11/2013 06:56 | 1 | Z4205.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/11/2013 07:18 | 1 | | DB-624 (75.53) 0.53(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: VMS_Z Start Date: 05/13/2013 21:31

Analysis Batch Number: 174063 End Date: 05/14/2013 07:50

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 280-174063/1 | | 05/13/2013 21:31 | 1 | Z4279.D | DB-624 (75.53) 0.53(mm) |
| CCV 280-174063/2 | | 05/13/2013 21:52 | 1 | Z4280.D | DB-624 (75.53) 0.53(mm) |
| CCV 280-174063/3 | | 05/13/2013 22:15 | 1 | Z4281.D | DB-624 (75.53) 0.53(mm) |
| CCV 280-174063/4 | | 05/13/2013 22:37 | 1 | Z4282.D | DB-624 (75.53) 0.53(mm) |
| LCS 280-174063/34 | | 05/13/2013 22:59 | 1 | Z4283.D | DB-624 (75.53) 0.53(mm) |
| MB 280-174063/35 | | 05/13/2013 23:21 | 1 | Z4284.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/13/2013 23:43 | 2 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 00:05 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 00:27 | 100 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 00:49 | 1 | | DB-624 (75.53) 0.53(mm) |
| 280-42039-12 | 050613AF | 05/14/2013 01:11 | 1 | Z4289.D | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 01:33 | 10 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 01:55 | 100 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 02:18 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 02:40 | 10 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 03:02 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 03:24 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 03:46 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 04:09 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 04:31 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 04:53 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 05:15 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 05:37 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 05:59 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 06:22 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 06:44 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 07:06 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 07:28 | 1 | | DB-624 (75.53) 0.53(mm) |
| ZZZZZ | | 05/14/2013 07:50 | 1 | | DB-624 (75.53) 0.53(mm) |

**GC/MS VOA Continuing Calibration Review Checklist** *TestAmerica Denver*

Instrument ID and Date: 2 5/10/13 pm Work List 11533

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Continuing Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Do SPCC RRFs and CCC %Ds meet method criteria? | ✓ | | | ✓ | |
| 4. Does %D meet criteria for non-CCC compounds? | ✓ | | | ✓ | |
| 5. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 6. Label number of standard used recorded? | ✓ | | | ✓ | |
| 7. Manual integrations documented and checked? | | | ✓ | N/A | |
| 8. Do the Internal Standards meet criteria for %D against ICAL? | ✓ | | | | |
| 9. Does this CCV pass Q4 criteria? | ✓ | | | ✓ | |

1st Level Reviewer: SP Date: 05/10/13

2nd Level Reviewer: ADD Date: 5/10/13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: 2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 19:02 - 06:56

Lims Batch : 173812

Sequence Name: C:\HPCHEM\1\SEQUENCE\051013pm.S
Comment:
Operator: tinkhams
Data Path: C:\HPCHEM\1\data\051013pm\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 1 | Sample | 100 | Z4173 | BFB | bfb |
| 2 | Sample | 1 | Z4174 | 8260 | ccv |
| 3 | Sample | 2 | Z4175 | 8260 | ccv |
| 4 | Sample | 3 | Z4176 | 8260 | ccv |
| 5 | Sample | 4 | Z4177 | 8260 | lcs |
| 6 | Sample | 5 | Z4178 | 8260 | mb |
| 7 | Sample | 6 | Z4179 | 8260 | 280-41825-C-6 pH<2 |
| 8 | Sample | 7 | Z4180 | 8260 | DNR 280-41825-C-6 pH<2 2ML not needed |
| 9 | Sample | 8 | Z4181 | 8260 | 280-41825-e-7 pH<2 |
| 10 | Sample | 9 | Z4182 | 8260 | DNR 280-41825-e-7 pH<2 2ML RR @ 10ml too dilute |
| 11 | Sample | 10 | Z4183 | 8260 | 280-41825-e-8 pH<2 |
| 12 | Sample | 11 | Z4184 | 8260 | 280-41825-d-9 pH<2 4ML RR @ 20 ml for undilute |
| 13 | Sample | 12 | Z4185 | 8260 | DNR 280-41825-d-9 pH<2 0.4ML not needed |
| 14 | Sample | 13 | Z4186 | 8260 | 280-41843-c-1 pH<2 |
| 15 | Sample | 14 | Z4187 | 8260 | 280-41843-b-3 pH<2 |
| 16 | Sample | 15 | Z4188 | 8260 | 280-41843-c-4 pH<2 |
| 17 | Sample | 16 | Z4189 | 8260 | 280-41871-a-1 pH<2 |
| 18 | Sample | 17 | Z4190 | 8260 | 280-41871-c-2 pH<2 |
| 19 | Sample | 18 | Z4191 | 8260 | 280-41871-d-3 pH<2 |
| 20 | Sample | 19 | Z4192 | 8260 | DNR 280-41871-d-3 pH<2 10ML not needed |
| 21 | Sample | 20 | Z4193 | 8260 | 280-41871-d-4 pH<2 |
| 22 | Sample | 21 | Z4194 | 8260 | 280-41871-e-5 pH<2 |
| 23 | Sample | 22 | Z4195 | 8260 | 280-41871-e-5 pH<2 10ML |
| 24 | Sample | 23 | Z4196 | 8260 | 280-41871-c-6 pH<2 |
| 25 | Sample | 24 | Z4197 | 8260 | 280-41871-c-6 pH<2 10ML |
| 26 | Sample | 25 | Z4198 | 8260 | 280-41871-c-8 pH<2 |
| 27 | Sample | 26 | Z4199 | 8260 | 280-41871-e-9 pH<2 |
| 28 | Sample | 27 | Z4200 | 8260 | 280-41871-d-10 pH<2 2ML |
| 29 | Sample | 28 | Z4201 | 8260 | DNR 280-41871-d-10 pH<2 0.2ML SST RR @ 0.2ml |
| 30 | Sample | 29 | Z4202 | 8260 | 280-41871-d-11 pH<2 2ML |
| 31 | Sample | 30 | Z4203 | 8260 | 280-41871-d-11 pH<2 0.2ML |
| 32 | Sample | 31 | Z4204 | 8260 | DNR 280-41871-c-12 pH<2 SST |
| 33 | Sample | 32 | Z4205 | 8260 | 280-42039-d-11 pH<2 ~~SST~~ (BT) 05/13/13 |
| 34 | Sample | 33 | Z4206 | 8260 | DNR 280-42039-b-12 pH<2 out of tune |

(BT) 05/13/13

*Run rejected because of poor purge or QC issue. Do not report.
- Unless noted, volume of water used is 20 mL

TestAmerica Laboratories
Worklist Report

Worklist Name: 051013pm Worklist Number: 11533
Instrument Name: VMS_Z Chrom Method: AQ_VMSZ_8260
Purge Volume: 20.00 Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_Z\20130510-11533.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_Z
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 0.720000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011533-001 | # 1 bfb | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011533-002 | # 2 ccv | MV-Main_00028<br>MV-Archon IS_00542<br>MV-Gas/Ket A_00003 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-003 | # 3 ccv | MV-2 Cleve_00014<br>MV-Supp Std_00035 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-004 | # 4 ccv | MV-Archon IS_00542<br>MV-Acetates_00006 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-005 | # 5 lcs | MV-SS GasKe_00026<br>MV-624 A_00021<br>MV-524 A_00017 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-006 | # 6 mb | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-007 | # 7 280-32357-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-008 | # 8 280-32357-A-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-009 | # 9 280-41825-C-6 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-010 | #10 280-41825-C-6 | | Client | | voaWater | 2.000000 | mL | 1.000000 |
| 280-0011533-011 | #11 280-41825-E-7 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-012 | #12 280-41825-E-7 | | Client | | voaWater | 2.000000 | mL | 1.000000 |
| 280-0011533-013 | #13 280-41825-E-8 | | Client | | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011533-014 | #14 280-41825-D-9 | | Client | | voaWater | 4.000000 | mL | 1.000000 |
| 280-0011533-015 | #15 280-41825-D-9 | | Client | | voaWater | 0.400000 | mL | 1.000000 |
| 280-0011533-016 | #16 280-41843-C-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-017 | #17 280-41843-B-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-018 | #18 280-41843-C-4 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-019 | #19 280-41871-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-020 | #20 280-41871-C-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-021 | #21 280-41871-D-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-022 | #22 280-41871-D-3 | | Client | | voaWater | 10.00 | mL | 1.000000 |
| 280-0011533-023 | #23 280-41871-D-4 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-024 | #24 280-41871-E-5 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-025 | #25 280-41871-E-5 | | Client | | voaWater | 10.00 | mL | 1.000000 |
| 280-0011533-026 | #26 280-41871-C-6 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-027 | #27 280-41871-C-6 | | Client | | voaWater | 10.00 | mL | 1.000000 |
| 280-0011533-028 | #28 280-41871-C-8 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-029 | #29 280-41871-E-9 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-030 | #30 280-41871-D-10 | | Client | | voaWater | 2.000000 | mL | 1.000000 |
| 280-0011533-031 | #31 280-41871-D-10 | | Client | | voaWater | 0.200000 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011533-032 | #32 280-41871-D-11 | | Client | | voaWater | 2.000000 | mL | 1.000000 |
| 280-0011533-033 | #33 280-41871-D-11 | | Client | | voaWater | 0.200000 | mL | 1.000000 |
| 280-0011533-034 | #34 280-41871-C-12 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-035 | #35 280-42039-D-11 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-036 | #36 280-42039-B-12 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011533-037 | #37 Samp 37 | | Client | | voaWater | 20.00 | mL | 1.000000 |

**GC/MS VOA Continuing Calibration Review Checklist** *TestAmerica Denver*

Instrument ID and Date: 2 05/13/13pm Work List 11574

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Continuing Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | | |
| 2. ICAL date and instrument ID verified? | ✓ | | | | |
| 3. Do SPCC RRFs and CCC %Ds meet method criteria? | ✓ | | | | |
| 4. Does %D meet criteria for non-CCC compounds? | ✓ | | | | |
| 5. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | | |
| 6. Label number of standard used recorded? | ✓ | | | | |
| 7. Manual integrations documented and checked? | | | ✓ | | |
| 8. Do the Internal Standards meet criteria for %D against ICAL? | ✓ | | | | |
| 9. Does this CCV pass Q4 criteria? | ✓ | | | | |

1st Level Reviewer: _____ Date: 05/13/13

2nd Level Reviewer: _____ Date: 5-13-13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: 2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 21:31 - 07:50

Lims Batch: 174063

Sequence Name: C:\HPCHEM\1\SEQUENCE\051313pm.S
Comment:
Operator: tinkhams
Data Path: C:\HPCHEM\1\data\051313pm\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 1 | Sample | 100 | Z4271 | BFB | bfb |
| 2 | Sample | 1 | Z4272 | 8260 | ccv ccc out |
| 3 | Sample | 2 | Z4273 | 8260 | ccv |
| 4 | Sample | 3 | Z4274 | 8260 | ccv |
| 5 | Sample | 4 | Z4275 | 8260 | ccv |
| 6 | Sample | 5 | Z4276 | 8260 | ccv ccc out |
| 7 | Sample | 6 | Z4277 | 8260 | lcs |
| 8 | Sample | 7 | Z4278 | 8260 | mb |
| 9 | Sample | 100 | Z4279 | BFB | bfb |
| 10 | Sample | 1 | Z4280 | 8260 | ccv |
| 11 | Sample | 2 | Z4281 | 8260 | ccv |
| 12 | Sample | 3 | Z4282 | 8260 | ccv |
| 13 | Sample | 4 | Z4283 | 8260 | lcs |
| 14 | Sample | 5 | Z4284 | 8260 | mb |
| 15 | Sample | 6 | Z4285 | 8260 | 280-41825-D-7 pH<2 10ML |
| 16 | Sample | 7 | Z4286 | 8260 | 280-41825-e-9 pH<2 SSA report original in batch 173812 ncm NTC |
| 17 | Sample | 8 | Z4287 | 8260 | 280-41871-e-10 pH<2 0.2ML |
| 18 | Sample | 9 | Z4288 | 8260 | 280-41871-d-12 pH<2 |
| 19 | Sample | 10 | Z4289 | 8260 | 280-42039-c-12 pH<2 |
| 20 | Sample | 11 | Z4290 | 8260 | 280-41933-d-40 pH<2 2ML(E) |
| 21 | Sample | 12 | Z4291 | 8260 | 280-41933-d-40 pH<2 0.2ML |
| 22 | Sample | 13 | Z4292 | 8260 | 280-41933-c-58 pH<2(E) |
| 23 | Sample | 14 | Z4293 | 8260 | 280-41933-c-58 pH<2 2ML |
| 24 | Sample | 15 | Z4294 | 8260 | 280-41933-c-62 pH<2 |
| 25 | Sample | 16 | Z4295 | 8260 | 280-41933-b-63 pH<2 |
| 26 | Sample | 17 | Z4296 | 8260 | 280-41903-1-1 pH<2 |
| 27 | Sample | 18 | Z4297 | 8260 | 280-41903-b-2 pH<2 |
| 28 | Sample | 19 | Z4298 | 8260 | 280-41907-g-2 pH<2 |
| 29 | Sample | 20 | Z4299 | 8260 | 280-41909-c-6 pH<2 |
| 30 | Sample | 21 | Z4300 | 8260 | 280-41909-d-7 pH<2 |
| 31 | Sample | 22 | Z4301 | 8260 | 280-41959-k-1 pH<2 |
| 32 | Sample | 23 | Z4302 | 8260 | 280-41959-j-1 MS pH<2 |
| 33 | Sample | 24 | Z4303 | 8260 | 280-41959-j-1 MSD pH<2 |
| 34 | Sample | 25 | Z4304 | 8260 | 280-41959-d-2 pH<2 |
| 35 | Sample | 26 | Z4305 | 8260 | 280-41959-e-3 pH<2 |
| 36 | Sample | 27 | Z4306 | 8260 | 280-41959-f-4 pH<2 |
| 37 | Sample | 28 | Z4307 | 8260 | 280-41959-a-5 pH<2 |

05/14/13

*Run rejected because of poor purge or QC issue. Do not report.
- Unless noted, volume of water used is 20 mL

TestAmerica Laboratories
Worklist Report

Worklist Name: 051313pm
Worklist Number: 11574
Instrument Name: VMS_Z
Chrom Method: AQ_VMSZ_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_Z\20130513-11574.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_Z
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 0.720000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011574-001 | # 1 bfb | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011574-002 | # 2 ccv | MV-Main_00028<br>MV-Archon IS_00542<br>MV-Gas/Ket A_00003 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-003 | # 3 ccv | MV-2 Cleve_00014<br>MV-Supp Std_00035 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-004 | # 4 ccv | MV-Archon IS_00542<br>MV-Acetates_00007 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-005 | # 5 ccv | MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-006 | # 6 ccv | MV-Archon IS_00542<br>MV-Gas/Ket A_00003 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-032 | #32 280-32357-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-033 | #33 280-32357-A-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-034 | #34 lcs | MV-524 A_00017<br>MV-624 A_00021<br>MV-SS GasKe_00026 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-035 | #35 mb | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-060 | #60 280-41825-D-7 | | Client | | voaWater | 10.00 | mL | 1.000000 |
| 280-0011574-061 | #61 280-41825-E-9 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-062 | #62 280-41871-E-10 | | Client | | voaWater | 0.200000 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011574-063 | #63 280-41871-D-12 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-064 | #64 280-42039-C-12 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-065 | #65 280-41933-D-40 | | Client | | voaWater | 2.000000 | mL | 1.000000 |
| 280-0011574-066 | #66 280-41933-D-40 | | Client | | voaWater | 0.200000 | mL | 1.000000 |
| 280-0011574-067 | #67 280-41933-C-58 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-068 | #68 280-41933-C-58 | | Client | | voaWater | 2.000000 | mL | 1.000000 |
| 280-0011574-069 | #69 280-41933-C-62 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-070 | #70 280-41933-B-63 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-071 | #71 280-41903-L-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-072 | #72 280-41903-B-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-073 | #73 280-41907-G-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-074 | #74 280-41909-C-6 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-075 | #75 280-41909-D-7 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-076 | #76 280-41959-K-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-077 | #77 280-41959-J-1 MS | MV-524 A_00017<br>MV-SS GasKe_00026<br>MV-624 A_00021 | MS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-078 | #78 280-41959-J-1 MSD | MV-624 A_00021<br>MV-524 A_00017<br>MV-SS GasKe_00026 | MSD | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-079 | #79 280-41959-D-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-080 | #80 280-41959-E-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011574-081 | #81 280-41959-F-4 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-082 | #82 280-41959-A-5 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011574-083 | #83 Samp 83 | | Client | | voaWater | 20.00 | mL | 1.000000 |

## GC/MS VOA Continuing Calibration Review Checklist

*TestAmerica Denver*

Instrument ID and Date: G2 5/15/13 Work List 11657

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Continuing Calibration** | | | | | |
| 1. BFB meets criteria? | X | | | — | |
| 2. ICAL date and instrument ID verified? | X | | | — | |
| 3. Do SPCC RRFs and CCC %Ds meet method criteria? | X | | | — | |
| 4. Does %D meet criteria for non-CCC compounds? | X | | | — | |
| 5. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | X | | | — | |
| 6. Label number of standard used recorded? | X | | | — | |
| 7. Manual integrations documented and checked? | | | X | NA | |
| 8. Do the Internal Standards meet criteria for %D against ICAL? | X | | | — | |
| 9. Does this CCV pass Q4 criteria? | X | | | — | Q4 waters |

1st Level Reviewer: MM Date: 5-15-13

2nd Level Reviewer: SR Date: 05/15/13

Sequence Name: C:\MSDChem\1\sequence\051513pm.S
Comment:
Operator: moanm
Data Path: C:\MSDCHEM\1\DATA\051513pm\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | | Sample Name/Misc Info | | | |
|---|---|---|---|---|---|
| 1) | Sample | 100 | g2_8391 | BFB | BFB |
| 2) | Sample | 99 | g2_8392 | BFB | BFB TUNE CHK |
| 3) | Sample | 98 | g2_8393 | BFB | BFB |
| 4) | Sample | 3 | g2_8394 | 8260B | CCV |
| 5) | Sample | 4 | g2_8395 | 8260B | CCV |
| 6) | Sample | 5 | g2_8396 | 8260B | CCV |
| 7) | Sample | 6 | g2_8397 | 8260B | LCS |
| 8) | Sample | 7 | g2_8398 | 8260B | MB |
| 9) | Sample | 8 | g2_8399 | 8260B | 280-41981-d-3 PH<2 |
| 10) | Sample | 9 | g2_8400 | 8260B | 280-41981-e-5 PH<2 |
| 11) | Sample | 10 | g2_8401 | 8260B | 280-42121-a-1 PH<2 |
| 12) | Sample | 11 | g2_8402 | 8260B | 280-42121-b-2 PH<2 |
| 13) | Sample | 12 | g2_8403 | 8260B | 280-42121-a-3 PH<2 |
| 14) | Sample | 13 | g2_8404 | 8260B | 280-42121-b-4 PH<2 |
| 15) | Sample | 14 | g2_8405 | 8260B | 280-42121-a-5 PH<2 |
| 16) | Sample | 15 | g2_8406 | 8260B | 280-42039-c-13 PH<2 |
| 17) | Sample | 16 | g2_8407 | 8260B | 280-42003-c-2 PH<2 |
| 18) | Sample | 17 | g2_8408 | 8260B | 280-42003-c-3 PH<2 |
| 19) | Sample | 18 | g2_8409 | 8260B | 280-42003-e-4 PH<2 |
| 20) | Sample | 19 | g2_8410 | 8260B | 280-42003-c-5 PH<2 |
| 21) | Sample | 20 | g2_8411 | 8260B | 280-42003-b-6 PH<2 SS1 RR ok |
| 22) | Sample | 21 | g2_8412 | 8260B | 280-42003-d-7 PH<2 |
| 23) | Sample | 22 | g2_8413 | 8260B | 280-42003-d-8 PH<2 |
| 24) | Sample | 23 | g2_8414 | 8260B | 280-42003-e-9 PH<2 SS1 RR |
| 25) | Sample | 24 | g2_8415 | 8260B | 280-42003-e-10 PH<2 SS1 RR ok |
| 26) | Sample | 25 | g2_8416 | 8260B | 280-42003-e-11 PH<2 |
| 27) | Sample | 26 | g2_8417 | 8260B | 280-42003-b-13 PH<2 SS1 RR ok |

JP 5/17/13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: G2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 19:32 - 03:24

Lims Batch: 174465
WL 11657

*Run rejected because of poor purge or QC issue. Do not report.
- Unless noted, volume of water used is 20 mL

TestAmerica Laboratories
Worklist Report

Worklist Name: 051513pm
Worklist Number: 11657
Instrument Name: VMS_G2
Chrom Method: AQ_VMSG2_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130515-11657.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 1.000000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011657-001 | # 1 BFB | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011657-002 | # 2 CCV | MV-Archon IS_00542<br>MV-Gas/Ket A_00003<br>MV-Main_00028<br>MV-URS_00003 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-003 | # 3 CCV | MV-2 Cleve_00014<br>MV-Supp Std_00035 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-004 | # 4 CCV | MV-Archon IS_00542<br>MV-Acetates_00007 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-005 | # 5 LCS | MV-524 A_00017<br>MV-624 A_00021<br>MV-SS GasKe_00026<br>MV-URS_00003 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-006 | # 6 MB | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-007 | # 7 280-32357-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-008 | # 8 280-32357-A-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-009 | # 9 280-41981-D-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-010 | #10 280-41981-E-5 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-011 | #11 280-42121-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-012 | #12 280-42121-B-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011657-013 | #13 280-42121-A-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-014 | #14 280-42121-B-4 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-015 | #15 280-42121-A-5 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-016 | #16 280-42039-C-13 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-017 | #17 280-42003-C-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-018 | #18 280-42003-C-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-019 | #19 280-42003-E-4 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-020 | #20 280-42003-C-5 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-021 | #21 280-42003-B-6 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-022 | #22 280-42003-D-7 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-023 | #23 280-42003-D-8 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-024 | #24 280-42003-E-9 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-025 | #25 280-42003-E-10 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-026 | #26 280-42003-E-11 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-027 | #27 280-42003-B-13 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011657-028 | #28 Samp 28 | | Client | | voaWater | 20.00 | mL | 1.000000 |

**GC/MS VOA Continuing Calibration Review Checklist** *TestAmerica*

*Denver*

Instrument ID and Date: G2 5/17/13 Work List 11709

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☐ 20mL ☒ 5035 Low ☐ 5035 High ☒ 5030 Low ☐ 5030 High

| Review Items | ---- Level 1 ---- Yes | No | N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Continuing Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Do SPCC RRFs and CCC %Ds meet method criteria? | ✓ | | | ✓ | |
| 4. Does %D meet criteria for non-CCC compounds? | ✓ | | | ✓ | |
| 5. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 6. Label number of standard used recorded? | ✓ | | | ✓ | |
| 7. Manual integrations documented and checked? | ✓ | | | ✓ | BFB |
| 8. Do the Internal Standards meet criteria for %D against ICAL? | ✓ | | | ✓ | |
| 9. Does this CCV pass Q4 criteria? | ✓ | | | ✓ | |

1st Level Reviewer: _____ Date: 5/17/13

2nd Level Reviewer: _____ Date: 5/17/13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: G2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 0705-1613

Lims Batch : 174695

174822

```
   Sequence Name: C:\MSDChem\1\sequence\051713.S
         Comment:
        Operator: meierg
       Data Path: C:\MSDCHEM\1\DATA\051713\
Top                  Pre-Seq Cmd:
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Top                 Post-Seq Cmd:
Instrument Control  Post-Seq Cmd:
Data Analysis       Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject
```

| Line | | | Sample Name/Misc Info | | |
|---|---|---|---|---|---|
| 1) | Sample | 100 | g2_8485 | BFBSOIL | BFB |
| 2) | Sample | 1 | g2_8486 | 8260SOIL | CCV |
| 3) | Sample | 2 | g2_8487 | 8260SOIL | CCV |
| 4) | Sample | 3 | g2_8488 | 8260SOIL | CCV |
| 5) | Sample | 4 | g2_8489 | 8260SOIL | CCV ΔS 7→6 |
| 6) | Sample | 5 | g2_8490 | 8260SOIL | CCV |
| 7) | Sample | 6 | g2_8491 | 8260SOIL | LCS |
| 8) | Sample | 7 | g2_8492 | 8260SOIL | MB |
| 9) | Sample | 8 | g2_8493 | 8260SOIL | 280-42048-c-5-a |
| 10) | Sample | 9 | g2_8494 | 8260SOIL | 280-42048-b-23-a |
| 11) | Sample | 10 | g2_8495 | 8260SOIL | 280-42039-b-1-a |
| 12) | Sample | 11 | g2_8496 | 8260SOIL | 280-42039-b-2-a |
| 13) | Sample | 12 | g2_8497 | 8260SOIL | 280-42039-b-3-a |
| 14) | Sample | 13 | g2_8498 | 8260SOIL | 280-42039-b-4-a |
| 15) | Sample | 14 | g2_8499 | 8260SOIL | 280-42039-b-5-a |
| 16) | Sample | 15 | g2_8500 | 8260SOIL | 280-42039-b-6-a |
| 17) | Sample | 16 | g2_8501 | 8260SOIL | 280-42039-b-7-a |
| 18) | Sample | 17 | g2_8502 | 8260SOIL | 280-42039-b-8-a |
| 19) | Sample | 18 | g2_8503 | 8260SOIL | 280-42039-b-9-a |
| 20) | Sample | 19 | g2_8504 | 8260SOIL | 280-42039-b-10-a |
| 21) | Sample | 20 | g2_8505 | 8260SOIL | 280-41995-a-1-c |
| 22) | Sample | 21 | g2_8506 | 8260SOIL | 280-41995-a-1-d ms |
| 23) | Sample | 22 | g2_8507 | 8260SOIL | 280-41995-a-1-e msd |
| 24) | Sample | 23 | g2_8508 | 8260SOIL | 280-41490-a-5-a |
| 25) | Sample | 24 | g2_8509 | 8260SOIL | 280-41490-a-6-a |
| 26) | Sample | 25 | g2_8510 | 8260SOIL | 280-41490-g-7-a |
| 27) | Sample | 26 | g2_8511 | 8260SOIL | 280-41490-a-7-a ms |
| 28) | Sample | 27 | g2_8512 | 8260SOIL | 280-41490-b-7-a msd |
| 29) | Sample | 28 | g2_8513 | 8260SOIL | 280-42083-a-1-a |
| 30) | Sample | 29 | g2_8514 | 8260B | PRIMER |
| 31) | Sample | 30 | g2_8515 | 8260B | PRIMER |

5/18/13

*Run rejected because of poor purge or QC issue. Do not report.
- Unless noted, volume of water used is 20 mL

TestAmerica Laboratories
Worklist Report

Worklist Name: 051713PLL Worklist Number: 11709
Instrument Name: VMS_G2 Chrom Method: SO_VMSG2_8260
Purge Volume: 5.000000 Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130517-11709.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 1.100000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011709-001 | # 1 BFB | MV-BFB_00010 | BFB | | voaSoilLL | 1.000000 | uL | 1.000000 |
| 280-0011709-002 | # 2 CCV | MV-Archon IS_00542<br>MV-Gas/Ket A_00003<br>MV-Main_00028<br>MV-URS_00003 | CCV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-003 | # 3 CCV | MV-Supp Std_00035<br>MV-2Cleve A_00002 | CCV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-004 | # 4 CCV | MV-Acetates_00007<br>MV-Archon IS_00542 | CCV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-005 | # 5 CCV | MV-Supp Std_00035<br>MV-2Cleve A_00002 | CCV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-006 | # 6 CCV | MV-2Cleve A_00002<br>MV-Supp Std_00035 | CCV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-007 | # 7 LCS | MV-524 A_00017<br>MV-624 A_00021<br>MV-SS GasKe_00026<br>MV-URS_00003 | LCS | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-008 | # 8 MB | | MB | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-009 | # 9 280-42039-B-1-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-010 | #10 280-42039-B-2-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-011 | #11 280-42039-B-3-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-012 | #12 280-42039-B-4-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011709-013 | #13 280-42039-B-5-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-014 | #14 280-42039-B-6-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-015 | #15 280-42039-B-7-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-016 | #16 280-42039-B-8-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-017 | #17 280-42039-B-9-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-018 | #18 280-42039-B-10-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-019 | #19 280-41995-A-1-C | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-020 | #20 280-41995-A-1-D MS | MV-524 A_00017<br>MV-624 A_00021<br>MV-SS GasKe_00026<br>MV-URS_00003 | MS | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-021 | #21 280-41995-A-1-E MSD | MV-624 A_00021<br>MV-SS GasKe_00026<br>MV-524 A_00017<br>MV-URS_00003 | MSD | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-029 | #29 280-42083-A-1-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-022 | #22 280-42048-C-5-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-023 | #23 280-42048-B-23-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-024 | #24 280-41490-A-5-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-025 | #25 280-41490-A-6-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-026 | #26 280-41490-G-7-A | | Client | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-027 | #27 280-41490-A-7-A MS | MV-624 A_00021<br>MV-SS GasKe_00026<br>MV-524 A_00017<br>MV-URS_00003 | MS | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011709-028 | #28 280-41490-B-7-A MSD | MV-624 A_00021<br>MV-SS GasKe_00026<br>MV-524 A_00017<br>MV-URS_00003 | MSD | | voaSoilLL | 5.000000 | g | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

SVPP

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: G2 022813 ICAL Batch/ICV lines 162427 ICVs lines 22, 23 ICIS line 19
Calibration Event 12959 Work List 9196 2nd Day Batch/ICV lines _____

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment? | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | | | - | N/A | Methyl acetate +22.99% |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects; 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | - | | | ✓ | 1,2-dichloro-1,1,2,2-tetrafluoroethane -35.76%, 2-nitropropene -20.28%, tetrahydrothiophene -41.13%, cis-1,4-dichloro-2-butene -23.88%, trans 1,4-dichloro-2-butene -26.63%, ★ 2-Pentanone +56.95% ★, ethylene oxide high pt 3750ppb |

1st Level Reviewer: _____ Date: 3/5/13

2nd Level Reviewer: _____ Date: 3/5/13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: G2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 737 - 1312

Lims Batch : 162427

Sequence Name: C:\MSDChem\1\sequence\022813.S
Comment:
Operator: ilczyszynd
Data Path: C:\MSDCHEM\1\DATA\022813\

3/1/13

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

9196
162427

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | | | Sample Name/Misc Info | | |
|---|---|---|---|---|---|
| 1) | Sample | 100 | g2_5567 | BFB | BFB 737 |
| 2) | Sample | 10 | g2_5568 | 8260B | ic003 |
| 3) | Sample | 11 | g2_5569 | 8260B | ic001 |
| 4) | Sample | 12 | g2_5570 | 8260B | ic002 |
| 5) | Sample | 13 | g2_5571 | 8260B | ic005 |
| 6) | Sample | 14 | g2_5572 | 8260B | ic010 |
| 7) | Sample | 15 | g2_5573 | 8260B | ic030 |
| 8) | Sample | 16 | g2_5574 | 8260B | ic060 |
| 9) | Sample | 17 | g2_5575 | 8260B | ic001 |
| 10) | Sample | 18 | g2_5576 | 8260B | ic002 |
| 11) | Sample | 19 | g2_5577 | 8260B | ic005 not 3/5/13 |
| 12) | Sample | 20 | g2_5578 | 8260B | ~~ic010~~ ICIS |
| 13) | Sample | 21 | g2_5579 | 8260B | ic030 |
| 14) | Sample | 22 | g2_5580 | 8260B | ic060 |
| 15) | Sample | 23 | g2_5581 | 8260B | icv m |
| 16) | Sample | 24 | g2_5582 | 8260B | icv s |
| 17) | Sample | 25 | g2_5583 | 8260B | icv a |
| 18) | Sample | 26 | g2_5584 | 8260B | icv g 1312 |

*Run rejected because of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 022813 Worklist Number: 9196
Instrument Name: VMS_G2 Chrom Method: AQ_VMSG2_8260
Purge Volume: 20.00 Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130228-9196.b
Upload Directory: \\Densvr08\rawdata\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 1.000000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0009196-001 | # 1 bfb | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0009196-002 | # 2 ccv | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-Archon IS_00542 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-003 | # 3 ccv | MV-Supp Std_00029<br>MV-2 Cleve_00013<br>MV-Acetates_00005 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-004 | # 4 lcs | MV-624 A_00020<br>MV-524 A_00016<br>MV-SS GasKe_00025 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-005 | # 5 mb | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-006 | # 6 280-32357-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-007 | # 7 280-32357-A-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-008 | # 8 ic | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-BO mix B_00012<br>MV-Archon IS_00542 | IC | 1 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-009 | # 9 ic | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-BO mix B_00012<br>MV-Archon IS_00542 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-010 | #10 ic | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-BO mix B_00012<br>MV-Archon IS_00542 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-011 | #11 ic | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-BO mix B_00012<br>MV-Archon IS_00542 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0009196-012 | #12 ic | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-BO mix B_00012<br>MV-Archon IS_00542 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-013 | #13 ic | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-BO mix B_00012<br>MV-Archon IS_00542 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-014 | #14 ic | MV-Main GasKe_00038<br>MV-Main_00027<br>MV-BO mix B_00012<br>MV-Archon IS_00542 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-015 | #15 icv | MV- BO mix A_00012<br>MV-Archon IS_00542<br>MV-SecSrc B_00010<br>MV-524ICVA_00003<br>MV-Acrol/Acry_00028 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-024 | #24 icv | MV-SS GasKe_00025<br>MV-Archon IS_00542 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-016 | #16 ic | MV-Archon IS_00542<br>MV-Supp Std_00029<br>MV-2 Cleve_00013<br>MV-Acetates_00005<br>MV-Archon SS_00677 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-017 | #17 ic | MV-Archon IS_00542<br>MV-Supp Std_00029<br>MV-2 Cleve_00013<br>MV-Acetates_00005<br>MV-Archon SS_00677 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-018 | #18 ic | MV-Archon IS_00542<br>MV-Supp Std_00029<br>MV-2 Cleve_00013<br>MV-Acetates_00005<br>MV-Archon SS_00677 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-019 | #19 icis | MV-Archon IS_00542<br>MV-Supp Std_00029<br>MV-2 Cleve_00013<br>MV-Acetates_00005<br>MV-Archon SS_00677 | ICIS | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-020 | #20 ic | MV-Archon IS_00542<br>MV-Supp Std_00029<br>MV-2 Cleve_00013<br>MV-Acetates_00005<br>MV-Archon SS_00677 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-021 | #21 ic | MV-Archon IS_00542<br>MV-Supp Std_00029<br>MV-2 Cleve_00013<br>MV-Acetates_00005<br>MV-Archon SS_00677 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0009196-022 | #22 icv | MV-Archon IS_00542<br>MV-SS Supp_00016<br>MV-SS 2-Cleve_00007<br>MV-Archon SS_00677 | ICV | | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0009196-023 | #23 icv | MV-Archon IS_00542<br>MV-SSAcetates_00001 | ICV | | voaWater | 20.00 | mL | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: G2 4/30/13 Supp ICAL Batch/ICV lines 171996/10 ICIS 7
Calibration Event 13824 Work List 11132 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | ----- Level 1 ----- Yes | No | N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | | | ✓ | N/A | |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | Q4 |

1st Level Reviewer: AOD Date: 4/30/13

2nd Level Reviewer: [signature] Date: 5/1/13

Revision 4
03/27/2013
G:\QA\Edit\FORMS\Data Review\MS VOA\GCMS VOA ICAL Rev 4.doc

05/30/2013

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: GC2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1816 - 0559

Lims Batch : 171996

A00 5/11/13

Sequence Name: C:\MSDChem\1\sequence\043013P.S
Comment:
Operator: DUKESA
Data Path: C:\MSDCHEM\1\DATA\043013P\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

11132
171996

| Line | | | | | Sample Name/Misc Info |
|---|---|---|---|---|---|
| 1) | Sample | 100 | g2_7661 | BFB | BFB |
| 2) | Sample | 100 | g2_7662 | BFB | BFB 1816 |
| 3) | Sample | 10 | g2_7663 | 8260B | CCV |
| 4) | Sample | 11 | g2_7664 | 8260B | CCV A |
| 5) | Sample | 12 | g2_7665 | 8260B | STD01 |
| 6) | Sample | 13 | g2_7666 | 8260B | STD02 |
| 7) | Sample | 14 | g2_7667 | 8260B | STD05 |
| 8) | Sample | 15 | g2_7668 | 8260B | ICIS |
| 9) | Sample | 16 | g2_7669 | 8260B | STD30 |
| 10) | Sample | 17 | g2_7670 | 8260B | STD60 |
| 11) | Sample | 18 | g2_7671 | 8260B | ICV |
| 12) | Sample | 19 | g2_7672 | 8260B | CCV MAIN 7 --> 8 |
| 13) | Sample | 20 | g2_7673 | 8260B | CCV MAIN 7 --> 8 |
| 14) | Sample | 21 | g2_7674 | 8260B | LCS |
| 15) | Sample | 22 | g2_7675 | 8260B | MB |
| 16) | Sample | 23 | g2_7676 | 8260B | 280-41278-a-53 2ML PH<2 |
| 17) | Sample | 24 | g2_7677 | 8260B | 280-41278-c-55 PH<2 |
| 18) | Sample | 25 | g2_7678 | 8260B | 280-41323-h-1 PH<2 |
| 19) | Sample | 26 | g2_7679 | 8260B | 280-41323-h-2 PH<2 |
| 20) | Sample | 27 | g2_7680 | 8260B | 280-41323-i-3 PH<2 |
| 21) | Sample | 28 | g2_7681 | 8260B | 280-41323-a-4 PH<2 |
| 22) | Sample | 29 | g2_7682 | 8260B | 280-41323-i-5 PH<2 |
| 23) | Sample | 30 | g2_7683 | 8260B | 280-41323-a-8 PH<2 |
| 24) | Sample | 31 | g2_7684 | 8260B | 280-41386-a-1 PH<2 |
| 25) | Sample | 32 | g2_7685 | 8260B | 280-41386-e-2 PH<2 |
| 26) | Sample | 33 | g2_7686 | 8260B | 280-41386-e-3 PH<2 |
| 27) | Sample | 34 | g2_7687 | 8260B | 280-41386-c-4 PH<2 |
| 28) | Sample | 35 | g2_7688 | 8260B | 280-41386-d-5 PH<2 |
| 29) | Sample | 36 | g2_7689 | 8260B | 280-41386-e-6 PH<2 |
| 30) | Sample | 37 | g2_7690 | 8260B | 280-41386-d-7 PH<2 |
| 31) | Sample | 38 | g2_7691 | 8260B | 280-41386-c-8 PH<2 |
| 32) | Sample | 39 | g2_7692 | 8260B | 280-41386-d-9 PH<2 |
| 33) | Sample | 40 | g2_7693 | 8260B | 280-41386-d-9 2ML PH<2 Not Needed |
| 34) | Sample | 41 | g2_7694 | 8260B | 280-41386-e-10 PH<2 |
| 35) | Sample | 42 | g2_7695 | 8260B | 280-41386-e-10 2ML PH<2 Not Needed |
| 36) | Sample | 43 | g2_7696 | 8260B | 280-41386-e-11 PH<2 |
| 37) | Sample | 44 | g2_7697 | 8260B | 280-41386-e-12 PH<2 |
| 38) | Sample | 45 | g2_7698 | 8260B | 280-41386-e-12 2ML PH<2 Not Needed |

0559

*Run rejected because of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 043013P
Instrument Name: VMS_G2
Purge Volume: 20.00
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130430-11132.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542

Worklist Number: 11132
Chrom Method: AQ_VMSG2_8260
Units: mL
Amount Added: 1.000000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011132-001 | # 1 BFB | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011132-002 | # 2 CCV | MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-003 | # 3 CCV | MV-Acetates_00006<br>MV-Archon IS_00542 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-004 | # 4 STD01 | MV-Supp Std_00034<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-005 | # 5 STD02 | MV-2 Cleve_00014<br>MV-Archon SS_00677<br>MV-Supp Std_00034 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-006 | # 6 STD05 | MV-2 Cleve_00014<br>MV-Archon SS_00677<br>MV-Supp Std_00034 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-007 | # 7 ICIS | MV-2 Cleve_00014<br>MV-Archon SS_00677<br>MV-Supp Std_00034 | ICIS | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-008 | # 8 STD30 | MV-2 Cleve_00014<br>MV-Supp Std_00034<br>MV-Archon SS_00677 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-009 | # 9 STD60 | MV-Supp Std_00034<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-010 | #10 ICV | MV-SS Supp_00016<br>MV-Archon SS_00677<br>MV-SS 2-Cleve_00008 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-011 | #11 CCV | MV-Archon IS_00542<br>MV-Main_00028 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-012 | #12 CCV | MV-Archon IS_00542<br>MV-Main_00028 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-013 | #13 LCS | MV-Archon SS_00677<br>MV-524 A_00017<br>MV-624 A_00021<br>MV-SS GasKe_00026 | LCS | | voaWater | 20.00 | mL | 1.000000 |

05/30/2013

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011132-014 | #14 MB | MV-Archon SS_00677 | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-015 | #15 280-32357-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-016 | #16 280-32357-A-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-017 | #17 280-41278-A-53 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 10.00 |
| 280-0011132-018 | #18 280-41278-C-55 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-019 | #19 280-41323-H-1 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-020 | #20 280-41323-H-2 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-021 | #21 280-41323-I-3 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-022 | #22 280-41323-A-4 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-023 | #23 280-41323-I-5 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-024 | #24 280-41323-A-8 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-025 | #25 280-41386-A-1 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-026 | #26 280-41386-E-2 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-027 | #27 280-41386-E-3 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-028 | #28 280-41386-C-4 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-029 | #29 280-41386-D-5 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-030 | #30 280-41386-E-6 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-031 | #31 280-41386-D-7 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011132-032 | #32 280-41386-C-8 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-033 | #33 280-41386-D-9 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-034 | #34 280-41386-D-9 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 10.00 |
| 280-0011132-035 | #35 280-41386-E-10 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-036 | #36 280-41386-E-10 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 10.00 |
| 280-0011132-037 | #37 280-41386-E-11 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-038 | #38 280-41386-E-12 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011132-039 | #39 280-41386-E-12 | MV-Archon SS_00677 | Client | | voaWater | 20.00 | mL | 10.00 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: Z 5/8/13 Acetates ICAL Batch/ICV lines 173382 52
Calibration Event 13944 Work List 11429 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | ✓ | | | ✓ | |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: _____ Date: 5/9/13

2nd Level Reviewer: _____ Date: 05/09/13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: 2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1811-0328

Lims Batch : 173382

Sequence Name: C:\HPCHEM\1\SEQUENCE\050813PM.S
Comment:
Operator: tinkhams
Data Path: C:\HPCHEM\1\data\050813pm\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 1 | Sample | 100 | Z4053 | BFB | BFB |
| 2 | Sample | 1 | Z4054 | 8260 | blank |
| 3 | Sample | 2 | Z4055 | 8260 | blank |
| 4 | Sample | 3 | Z4056 | 8260 | std003 |
| 5 | Sample | 4 | Z4057 | 8260 | std01 |
| 6 | Sample | 5 | Z4058 | 8260 | std02 |
| 7 | Sample | 6 | Z4059 | 8260 | std05 |
| 8 | Sample | 7 | Z4060 | 8260 | std10 |
| 9 | Sample | 8 | Z4061 | 8260 | std30 |
| 10 | Sample | 9 | Z4062 | 8260 | std60 |
| 11 | Sample | 10 | Z4063 | 8260 | blank |
| 12 | Sample | 11 | Z4064 | 8260 | icv |
| 13 | Sample | 12 | Z4065 | 8260 | std01 |
| 14 | Sample | 13 | Z4066 | 8260 | std02 |
| 15 | Sample | 14 | Z4067 | 8260 | std05 |
| 16 | Sample | 15 | Z4068 | 8260 | icis |
| 17 | Sample | 16 | Z4069 | 8260 | std30 |
| 18 | Sample | 17 | Z4070 | 8260 | std60 |
| 19 | Sample | 18 | Z4071 | 8260 | std01 |
| 20 | Sample | 19 | Z4072 | 8260 | std02 |
| 21 | Sample | 20 | Z4073 | 8260 | std05 |
| 22 | Sample | 21 | Z4074 | 8260 | std10 |
| 23 | Sample | 22 | Z4075 | 8260 | std30 |
| 24 | Sample | 23 | Z4076 | 8260 | std60 |
| 25 | Sample | 24 | Z4077 | 8260 | icv |
| 26 | Sample | 25 | Z4078 | 8260 | icv |

5/9/13

*Run rejected because of poor purge or QC issue. Do not report.
- Unless noted, volume of water used is 20 mL

TestAmerica Laboratories
Worklist Report

Worklist Name: 050813pm
Worklist Number: 11429
Instrument Name: VMS_Z
Chrom Method: AQ_VMSZ_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_Z\20130508-11429.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_Z
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 0.720000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-001 | # 1 bfb | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011429-002 | # 2 ccv | MV-Main_00028<br>MV-Archon IS_00542<br>MV-Gas/Ket A_00003 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-003 | # 3 ccv | MV-2 Cleve_00014<br>MV-Supp Std_00035 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-004 | # 4 ccv | MV-Archon IS_00542<br>MV-Acetates_00006 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-005 | # 5 lcs | MV-Acrol/Acry_00030<br>MV-SS GasKe_00026<br>MV-624 A_00021<br>MV-524 A_00017 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-006 | # 6 mb | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-007<br>Replicate as: LCS | # 7 std003 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 1 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-032<br>Replicate as: LCS | #32 std01 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-033<br>Replicate as: LCS | #33 std02 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-034<br>Replicate as: LCS | #34 std05 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-035<br>Replicate as: LCS | #35 std10 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-037<br>Replicate as: LCS | #37 std60 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-038 | #38 icv | MV-524 A_00017<br>MV-SS GasKe_00026<br>MV-SecSrc B_00012<br>MV-Acrol/Acry_00030<br>MV-Archon IS_00542 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-039<br>Replicate as: LCS | #39 std01 | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-040<br>Replicate as: LCS | #40 std02 | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-041<br>Replicate as: LCS | #41 std05 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-042<br>Replicate as: LCS | #42 icis | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | ICIS | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-043<br>Replicate as: LCS | #43 std30 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-044<br>Replicate as: LCS | #44 std60 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-045<br>Replicate as: LCS | #45 std01 | MV-Acetates_00006<br>MV-Archon IS_00542 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-046<br>Replicate as: LCS | #46 std02 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-047<br>Replicate as: LCS | #47 std05 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-048<br>Replicate as: LCS | #48 std10 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-049<br>Replicate as: LCS | #49 std30 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-052 | #52 icv | MV-SSAcetates_00001<br>MV-Archon IS_00542 | ICV | | voaWater | 20.00 | mL | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: Z 5/8/13 MAIN ICAL Batch/ICV lines 173382 38
Calibration Event ~~11429~~ 13942 Work List 11429 2nd Day Batch/ICV lines N/A
GM 5/9

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | ✓ | | | ✓ | ACN IN ICV |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: GM Date: 5/9/13

2nd Level Reviewer: SR Date: 05/09/13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: 2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1811-0328

Lims Batch : 173382

Sequence Name: C:\HPCHEM\1\SEQUENCE\050813PM.S
Comment:
Operator: tinkhams
Data Path: C:\HPCHEM\1\data\050813pm\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 1 | Sample | 100 | Z4053 | BFB | BFB |
| 2 | Sample | 1 | Z4054 | 8260 | blank |
| 3 | Sample | 2 | Z4055 | 8260 | blank |
| 4 | Sample | 3 | Z4056 | 8260 | std003 |
| 5 | Sample | 4 | Z4057 | 8260 | std01 |
| 6 | Sample | 5 | Z4058 | 8260 | std02 |
| 7 | Sample | 6 | Z4059 | 8260 | std05 |
| 8 | Sample | 7 | Z4060 | 8260 | std10 |
| 9 | Sample | 8 | Z4061 | 8260 | std30 |
| 10 | Sample | 9 | Z4062 | 8260 | std60 |
| 11 | Sample | 10 | Z4063 | 8260 | blank |
| 12 | Sample | 11 | Z4064 | 8260 | icv |
| 13 | Sample | 12 | Z4065 | 8260 | std01 |
| 14 | Sample | 13 | Z4066 | 8260 | std02 |
| 15 | Sample | 14 | Z4067 | 8260 | std05 |
| 16 | Sample | 15 | Z4068 | 8260 | icis |
| 17 | Sample | 16 | Z4069 | 8260 | std30 |
| 18 | Sample | 17 | Z4070 | 8260 | std60 |
| 19 | Sample | 18 | Z4071 | 8260 | std01 |
| 20 | Sample | 19 | Z4072 | 8260 | std02 |
| 21 | Sample | 20 | Z4073 | 8260 | std05 |
| 22 | Sample | 21 | Z4074 | 8260 | std10 |
| 23 | Sample | 22 | Z4075 | 8260 | std30 |
| 24 | Sample | 23 | Z4076 | 8260 | std60 |
| 25 | Sample | 24 | Z4077 | 8260 | icv |
| 26 | Sample | 25 | Z4078 | 8260 | icv |

5/9/13

*Run rejected because of poor purge or QC issue. Do not report.
- Unless noted, volume of water used is 20 mL

TestAmerica Laboratories
Worklist Report

Worklist Name: 050813pm
Worklist Number: 11429
Instrument Name: VMS_Z
Chrom Method: AQ_VMSZ_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_Z\20130508-11429.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_Z
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 0.720000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-001 | # 1 bfb | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011429-002 | # 2 ccv | MV-Main_00028<br>MV-Archon IS_00542<br>MV-Gas/Ket A_00003 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-003 | # 3 ccv | MV-2 Cleve_00014<br>MV-Supp Std_00035 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-004 | # 4 ccv | MV-Archon IS_00542<br>MV-Acetates_00006 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-005 | # 5 lcs | MV-Acrol/Acry_00030<br>MV-SS GasKe_00026<br>MV-624 A_00021<br>MV-524 A_00017 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-006 | # 6 mb | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-007<br>Replicate as: LCS | # 7 std003 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 1 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-032<br>Replicate as: LCS | #32 std01 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-033<br>Replicate as: LCS | #33 std02 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-034<br>Replicate as: LCS | #34 std05 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-035<br>Replicate as: LCS | #35 std10 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-037<br>Replicate as: LCS | #37 std60 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-038 | #38 icv | MV-524 A_00017<br>MV-SS GasKe_00026<br>MV-SecSrc B_00012<br>MV-Acrol/Acry_00030<br>MV-Archon IS_00542 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-039<br>Replicate as: LCS | #39 std01 | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-040<br>Replicate as: LCS | #40 std02 | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-041<br>Replicate as: LCS | #41 std05 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-042<br>Replicate as: LCS | #42 icis | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | ICIS | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-043<br>Replicate as: LCS | #43 std30 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-044<br>Replicate as: LCS | #44 std60 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-045<br>Replicate as: LCS | #45 std01 | MV-Acetates_00006<br>MV-Archon IS_00542 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-046<br>Replicate as: LCS | #46 std02 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-047<br>Replicate as: LCS | #47 std05 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-048<br>Replicate as: LCS | #48 std10 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-049<br>Replicate as: LCS | #49 std30 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-052 | #52 icv | MV-SSAcetates_00001<br>MV-Archon IS_00542 | ICV | | voaWater | 20.00 | mL | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: 7 5/8/13 SVBB ICAL Batch/ICV lines 173382 42/51
Calibration Event 13943 Work List 11429 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | ✓ | | | ✓ | |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: CM Date: 5/9/13

2nd Level Reviewer: SB Date: 05/09/13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: 2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1811-0328

Lims Batch : 173382

Sequence Name: C:\HPCHEM\1\SEQUENCE\050813PM.S
Comment:
Operator: tinkhams
Data Path: C:\HPCHEM\1\data\050813pm\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|
| 1 | Sample | 100 | Z4053 | BFB | BFB |
| 2 | Sample | 1 | Z4054 | 8260 | blank |
| 3 | Sample | 2 | Z4055 | 8260 | blank |
| 4 | Sample | 3 | Z4056 | 8260 | std003 |
| 5 | Sample | 4 | Z4057 | 8260 | std01 |
| 6 | Sample | 5 | Z4058 | 8260 | std02 |
| 7 | Sample | 6 | Z4059 | 8260 | std05 |
| 8 | Sample | 7 | Z4060 | 8260 | std10 |
| 9 | Sample | 8 | Z4061 | 8260 | std30 |
| 10 | Sample | 9 | Z4062 | 8260 | std60 |
| 11 | Sample | 10 | Z4063 | 8260 | blank |
| 12 | Sample | 11 | Z4064 | 8260 | icv |
| 13 | Sample | 12 | Z4065 | 8260 | std01 |
| 14 | Sample | 13 | Z4066 | 8260 | std02 |
| 15 | Sample | 14 | Z4067 | 8260 | std05 |
| 16 | Sample | 15 | Z4068 | 8260 | icis |
| 17 | Sample | 16 | Z4069 | 8260 | std30 |
| 18 | Sample | 17 | Z4070 | 8260 | std60 |
| 19 | Sample | 18 | Z4071 | 8260 | std01 |
| 20 | Sample | 19 | Z4072 | 8260 | std02 |
| 21 | Sample | 20 | Z4073 | 8260 | std05 |
| 22 | Sample | 21 | Z4074 | 8260 | std10 |
| 23 | Sample | 22 | Z4075 | 8260 | std30 |
| 24 | Sample | 23 | Z4076 | 8260 | std60 |
| 25 | Sample | 24 | Z4077 | 8260 | icv |
| 26 | Sample | 25 | Z4078 | 8260 | icv |

5/9/13

*Run rejected because of poor purge or QC issue. Do not report.
- Unless noted, volume of water used is 20 mL

TestAmerica Laboratories
Worklist Report

Worklist Name: 050813pm
Worklist Number: 11429
Instrument Name: VMS_Z
Chrom Method: AQ_VMSZ_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_Z\20130508-11429.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_Z
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 0.720000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-001 | # 1 bfb | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011429-002 | # 2 ccv | MV-Main_00028<br>MV-Archon IS_00542<br>MV-Gas/Ket A_00003 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-003 | # 3 ccv | MV-2 Cleve_00014<br>MV-Supp Std_00035 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-004 | # 4 ccv | MV-Archon IS_00542<br>MV-Acetates_00006 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-005 | # 5 lcs | MV-Acrol/Acry_00030<br>MV-SS GasKe_00026<br>MV-624 A_00021<br>MV-524 A_00017 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-006 | # 6 mb | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-007<br>Replicate as: LCS | # 7 std003 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 1 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-032<br>Replicate as: LCS | #32 std01 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-033<br>Replicate as: LCS | #33 std02 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-034<br>Replicate as: LCS | #34 std05 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-035<br>Replicate as: LCS | #35 std10 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-037<br>Replicate as: LCS | #37 std60 | MV-Main_00028<br>MV-Gas/Ket A_00003<br>MV-Archon IS_00542 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-038 | #38 icv | MV-524 A_00017<br>MV-SS GasKe_00026<br>MV-SecSrc B_00012<br>MV-Acrol/Acry_00030<br>MV-Archon IS_00542 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-039<br>Replicate as: LCS | #39 std01 | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-040<br>Replicate as: LCS | #40 std02 | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-041<br>Replicate as: LCS | #41 std05 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-042<br>Replicate as: LCS | #42 icis | MV-Archon IS_00542<br>MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-ARCH SS A_00002 | ICIS | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-043<br>Replicate as: LCS | #43 std30 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-044<br>Replicate as: LCS | #44 std60 | MV-Archon IS_00542<br>MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-ARCH SS A_00002 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-045<br>Replicate as: LCS | #45 std01 | MV-Acetates_00006<br>MV-Archon IS_00542 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-046<br>Replicate as: LCS | #46 std02 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-047<br>Replicate as: LCS | #47 std05 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-048<br>Replicate as: LCS | #48 std10 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011429-049<br>Replicate as: LCS | #49 std30 | MV-Archon IS_00542<br>MV-Acetates_00006 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011429-052 | #52 icv | MV-SSAcetates_00001<br>MV-Archon IS_00542 | ICV | | voaWater | 20.00 | mL | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: G2 5/9/13 ACE ICAL Batch/ICV lines 173584/28
Calibration Event 14004 Work List 11481 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☐ 20mL ☑ 5035 Low ☐ 5035 High ☑ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | | | ✓ | ✓ | |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: AOD Date: 5/10/13

2nd Level Reviewer: CM Date: 5/14/13

Sequence Name: C:\MSDChem\1\sequence\050913LLI.S
Comment:
Operator: DUKESA
Data Path: C:\MSDCHEM\1\DATA\050913I\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | | | Sample Name/Misc Info | |
|---|---|---|---|---|
| 1) | Sample | 100 | g2_8117 | BFBSOIL BFB |
| 2) | Sample | 10 | g2_8118 | 8260SOIL STD001 |
| 3) | Sample | 11 | g2_8119 | 8260SOIL STD002 |
| 4) | Sample | 12 | g2_8120 | 8260SOIL STD005 |
| 5) | Sample | 13 | g2_8121 | 8260SOIL STD010 |
| 6) | Sample | 14 | g2_8122 | 8260SOIL STD020 |
| 7) | Sample | 15 | g2_8123 | 8260SOIL STD050 |
| 8) | Sample | 16 | g2_8124 | 8260SOIL STD100 |
| 9) | Sample | 17 | g2_8125 | 8260SOIL STD200 |
| 10) | Sample | 18 | g2_8126 | 8260SOIL BLK |
| 11) | Sample | 19 | g2_8127 | 8260SOIL STD001 |
| 12) | Sample | 20 | g2_8128 | 8260SOIL STD002 |
| 13) | Sample | 21 | g2_8129 | 8260SOIL STD005 |
| 14) | Sample | 22 | g2_8130 | 8260SOIL STD010 |
| 15) | Sample | 23 | g2_8131 | 8260SOIL STD020 |
| 16) | Sample | 24 | g2_8132 | 8260SOIL ICIS |
| 17) | Sample | 25 | g2_8133 | 8260SOIL STD100 |
| 18) | Sample | 26 | g2_8134 | 8260SOIL STD200 |
| 19) | Sample | 27 | g2_8135 | 8260SOIL ICV M |
| 20) | Sample | 28 | g2_8136 | 8260SOIL ICV S |
| 21) | Sample | 29 | g2_8137 | 8260SOIL STD005 |
| 22) | Sample | 30 | g2_8138 | 8260SOIL STD010 |
| 23) | Sample | 31 | g2_8139 | 8260SOIL STD020 |
| 24) | Sample | 32 | g2_8140 | 8260SOIL STD050 |
| 25) | Sample | 33 | g2_8141 | 8260SOIL STD100 |
| 26) | Sample | 34 | g2_8142 | 8260SOIL STD200 |
| 27) | Sample | 35 | g2_8143 | 8260SOIL ICV A |
| 28) | Sample | 36 | g2_8144 | 8260SOIL PRIMER |
| 29) | Sample | 37 | g2_8145 | 8260SOIL PRIMER |

ATOD 5/10/13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: G2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1910-0335

Lims Batch : 173584

11481

173584

1910

0335

cause of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 050913PLL Worklist Number: 11481
Instrument Name: VMS_G2 Chrom Method: SO_VMSG2_8260
Purge Volume: 5.000000 Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130509-11481.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011481-001 | # 1 BFB | MV-BFB_00010 | BFB | | voaSoilLL | 1.000000 | uL | 1.000000 |
| 280-0011481-002 | # 2 STD001 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 1 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-005 | # 5 STD002 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 2 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-006 | # 6 STD005 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-007 | # 7 STD010 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-008 | # 8 STD020 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-009 | # 9 STD050 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-010 | #10 STD100 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-011 | #11 STD200 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-012 | #12 STD001 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 1 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-013 | #13 STD002 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 2 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-014 | #14 STD005 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-015 | #15 STD010 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011481-016 | #16 STD020 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-017 | #17 ICIS | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | ICIS | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-018 | #18 STD100 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-019 | #19 STD200 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-020 | #20 ICV | MV-524ICVA_00005<br>MV-SecSrc B_00011<br>MV-Acrol/Acry_00030<br>MV-SS GasKe_00026 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-021 | #21 ICV | MV-SS Supp_00018<br>MV-SS 2-Cleve_00008<br>MV-Archon SS_00677 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-022 | #22 STD005 | MV-Acetates_00007 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-023 | #23 STD010 | MV-Acetates_00007 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-024 | #24 STD020 | MV-Acetates_00007 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-025 | #25 STD050 | MV-Acetates_00007 | IC | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-026 | #26 STD100 | MV-Acetates_00007 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-027 | #27 STD200 | MV-Acetates_00007 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-028 | #28 ICV | MV-SSAcetates_00001 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: G2 5/9/13 MAIN ICAL Batch/ICV lines 173584 / 20
Calibration Event 14002 Work List 11481 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☑ 5mL ☐ 20mL ☑ 5035 Low ☐ 5035 High ☑ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | | | ✓ | ✓ | |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: Aoo Date: 5/19/13

2nd Level Reviewer: [signature] Date: 5/14/13

CyclohexANONE +113.670ID

Sequence Name: C:\MSDChem\1\sequence\050913LLI.S
Comment:
Operator: DUKESA
Data Path: C:\MSDCHEM\1\DATA\050913I\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | | | Sample Name/Misc Info | |
|---|---|---|---|---|
| 1) | Sample | 100 | g2_8117 | BFBSOIL BFB |
| 2) | Sample | 10 | g2_8118 | 8260SOIL STD001 |
| 3) | Sample | 11 | g2_8119 | 8260SOIL STD002 |
| 4) | Sample | 12 | g2_8120 | 8260SOIL STD005 |
| 5) | Sample | 13 | g2_8121 | 8260SOIL STD010 |
| 6) | Sample | 14 | g2_8122 | 8260SOIL STD020 |
| 7) | Sample | 15 | g2_8123 | 8260SOIL STD050 |
| 8) | Sample | 16 | g2_8124 | 8260SOIL STD100 |
| 9) | Sample | 17 | g2_8125 | 8260SOIL STD200 |
| 10) | Sample | 18 | g2_8126 | 8260SOIL BLK |
| 11) | Sample | 19 | g2_8127 | 8260SOIL STD001 |
| 12) | Sample | 20 | g2_8128 | 8260SOIL STD002 |
| 13) | Sample | 21 | g2_8129 | 8260SOIL STD005 |
| 14) | Sample | 22 | g2_8130 | 8260SOIL STD010 |
| 15) | Sample | 23 | g2_8131 | 8260SOIL STD020 |
| 16) | Sample | 24 | g2_8132 | 8260SOIL ICIS |
| 17) | Sample | 25 | g2_8133 | 8260SOIL STD100 |
| 18) | Sample | 26 | g2_8134 | 8260SOIL STD200 |
| 19) | Sample | 27 | g2_8135 | 8260SOIL ICV M |
| 20) | Sample | 28 | g2_8136 | 8260SOIL ICV S |
| 21) | Sample | 29 | g2_8137 | 8260SOIL STD005 |
| 22) | Sample | 30 | g2_8138 | 8260SOIL STD010 |
| 23) | Sample | 31 | g2_8139 | 8260SOIL STD020 |
| 24) | Sample | 32 | g2_8140 | 8260SOIL STD050 |
| 25) | Sample | 33 | g2_8141 | 8260SOIL STD100 |
| 26) | Sample | 34 | g2_8142 | 8260SOIL STD200 |
| 27) | Sample | 35 | g2_8143 | 8260SOIL ICV A |
| 28) | Sample | 36 | g2_8144 | 8260SOIL PRIMER |
| 29) | Sample | 37 | g2_8145 | 8260SOIL PRIMER |

AOD 5/10/13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: G2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1910-0335

Lims Batch : 173584

11481
1910
173584
0335

cause of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 050913PLL
Worklist Number: 11481
Instrument Name: VMS_G2
Chrom Method: SO_VMSG2_8260
Purge Volume: 5.000000
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130509-11481.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011481-001 | # 1 BFB | MV-BFB_00010 | BFB | | voaSoilLL | 1.000000 | uL | 1.000000 |
| 280-0011481-002 | # 2 STD001 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 1 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-005 | # 5 STD002 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 2 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-006 | # 6 STD005 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-007 | # 7 STD010 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-008 | # 8 STD020 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-009 | # 9 STD050 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-010 | #10 STD100 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-011 | #11 STD200 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-012 | #12 STD001 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 1 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-013 | #13 STD002 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 2 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-014 | #14 STD005 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-015 | #15 STD010 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011481-016 | #16 STD020 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-017 | #17 ICIS | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | ICIS | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-018 | #18 STD100 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-019 | #19 STD200 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-020 | #20 ICV | MV-524ICVA_00005<br>MV-SecSrc B_00011<br>MV-Acrol/Acry_00030<br>MV-SS GasKe_00026 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-021 | #21 ICV | MV-SS Supp_00018<br>MV-SS 2-Cleve_00008<br>MV-Archon SS_00677 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-022 | #22 STD005 | MV-Acetates_00007 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-023 | #23 STD010 | MV-Acetates_00007 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-024 | #24 STD020 | MV-Acetates_00007 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-025 | #25 STD050 | MV-Acetates_00007 | IC | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-026 | #26 STD100 | MV-Acetates_00007 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-027 | #27 STD200 | MV-Acetates_00007 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-028 | #28 ICV | MV-SSAcetates_00001 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

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Instrument ID and Date: G2 5/9/13 SUPP ICAL Batch/ICV lines 173584/21 ICIS 17
Calibration Event 14003 Work List 11481 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☑ 5mL ☐ 20mL ☑ 5035 Low ☐ 5035 High ☑ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | | | ✓ | ✓ | |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: AOO Date: 5/10/13

2nd Level Reviewer: [signature] Date: 5/14/13

Sequence Name: C:\MSDChem\1\sequence\050913LLI.S
Comment:
Operator: DUKESA
Data Path: C:\MSDCHEM\1\DATA\050913I\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

| Line | | Sample Name/Misc Info | | |
|---|---|---|---|---|
| 1) | Sample | 100 | g2_8117 | BFBSOIL BFB |
| 2) | Sample | 10 | g2_8118 | 8260SOIL STD001 |
| 3) | Sample | 11 | g2_8119 | 8260SOIL STD002 |
| 4) | Sample | 12 | g2_8120 | 8260SOIL STD005 |
| 5) | Sample | 13 | g2_8121 | 8260SOIL STD010 |
| 6) | Sample | 14 | g2_8122 | 8260SOIL STD020 |
| 7) | Sample | 15 | g2_8123 | 8260SOIL STD050 |
| 8) | Sample | 16 | g2_8124 | 8260SOIL STD100 |
| 9) | Sample | 17 | g2_8125 | 8260SOIL STD200 |
| 10) | Sample | 18 | g2_8126 | 8260SOIL BLK |
| 11) | Sample | 19 | g2_8127 | 8260SOIL STD001 |
| 12) | Sample | 20 | g2_8128 | 8260SOIL STD002 |
| 13) | Sample | 21 | g2_8129 | 8260SOIL STD005 |
| 14) | Sample | 22 | g2_8130 | 8260SOIL STD010 |
| 15) | Sample | 23 | g2_8131 | 8260SOIL STD020 |
| 16) | Sample | 24 | g2_8132 | 8260SOIL ICIS |
| 17) | Sample | 25 | g2_8133 | 8260SOIL STD100 |
| 18) | Sample | 26 | g2_8134 | 8260SOIL STD200 |
| 19) | Sample | 27 | g2_8135 | 8260SOIL ICV M |
| 20) | Sample | 28 | g2_8136 | 8260SOIL ICV S |
| 21) | Sample | 29 | g2_8137 | 8260SOIL STD005 |
| 22) | Sample | 30 | g2_8138 | 8260SOIL STD010 |
| 23) | Sample | 31 | g2_8139 | 8260SOIL STD020 |
| 24) | Sample | 32 | g2_8140 | 8260SOIL STD050 |
| 25) | Sample | 33 | g2_8141 | 8260SOIL STD100 |
| 26) | Sample | 34 | g2_8142 | 8260SOIL STD200 |
| 27) | Sample | 35 | g2_8143 | 8260SOIL ICV A |
| 28) | Sample | 36 | g2_8144 | 8260SOIL PRIMER |
| 29) | Sample | 37 | g2_8145 | 8260SOIL PRIMER |

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Instrument: G2

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1910-0335

Lims Batch: 173584

cause of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 050913PLL
Worklist Number: 11481
Instrument Name: VMS_G2
Chrom Method: SO_VMSG2_8260
Purge Volume: 5.000000
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130509-11481.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542
Amount Added: 1.000000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011481-001 | # 1 BFB | MV-BFB_00010 | BFB | | voaSoilLL | 1.000000 | uL | 1.000000 |
| 280-0011481-002 | # 2 STD001 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 1 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-005 | # 5 STD002 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 2 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-006 | # 6 STD005 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-007 | # 7 STD010 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-008 | # 8 STD020 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-009 | # 9 STD050 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-010 | #10 STD100 | MV-Gas/Ket A_00003<br>MV-Main_00028 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-011 | #11 STD200 | MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-012 | #12 STD001 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 1 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-013 | #13 STD002 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 2 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-014 | #14 STD005 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-015 | #15 STD010 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011481-016 | #16 STD020 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-017 | #17 ICIS | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | ICIS | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-018 | #18 STD100 | MV-2 Cleve_00014<br>MV-Supp Std_00035<br>MV-Archon SS_00677 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-019 | #19 STD200 | MV-Supp Std_00035<br>MV-2 Cleve_00014<br>MV-Archon SS_00677 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-020 | #20 ICV | MV-524ICVA_00005<br>MV-SecSrc B_00011<br>MV-Acrol/Acry_00030<br>MV-SS GasKe_00026 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-021 | #21 ICV | MV-SS Supp_00018<br>MV-SS 2-Cleve_00008<br>MV-Archon SS_00677 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-022 | #22 STD005 | MV-Acetates_00007 | IC | 3 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-023 | #23 STD010 | MV-Acetates_00007 | IC | 4 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-024 | #24 STD020 | MV-Acetates_00007 | IC | 5 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-025 | #25 STD050 | MV-Acetates_00007 | IC | 6 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-026 | #26 STD100 | MV-Acetates_00007 | IC | 7 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-027 | #27 STD200 | MV-Acetates_00007 | IC | 8 | voaSoilLL | 5.000000 | g | 1.000000 |
| 280-0011481-028 | #28 ICV | MV-SSAcetates_00001 | ICV | | voaSoilLL | 5.000000 | g | 1.000000 |

**TestAmerica Denver**
**GC/MS Initial Calibration Review Checklist**

MAIN

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Instrument ID and Date: G2 051013 ICAL Batch/ICV lines 173622 ICV lines 16, 17 (see below)
Calibration Event 14005 Work List 11491 2nd Day Batch/ICV lines _____

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Initial Calibration** | | | | | |
| 1. BFB meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the Chrom source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points < RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. Response factors meet criteria? | ✓ | | | ✓ | |
| 8. Isomeric pairs checked for correct peak assignment?<br>Vinyl acetate/Isopropyl ether<br>1,3- /1,4- /1,2-Dichlorobenzene<br>Ethylbenzene/Xylenes<br>1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene<br>2-Nitropropane between Bromodichloromethane &MIBK<br>2- /4-Chlorotoluene / n-propylbenzene<br>MIBK/2-Hexanone<br>Methyl/Ethyl Methacrylate<br>1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene<br>1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane | ✓ | | | ✓ | |
| 9. Data checked for detector saturation? | ✓ | | | ✓ | |
| 10. Label number of standards used recorded? | ✓ | | | ✓ | |
| 11. Manual integrations documented and checked? | | | ✓ | ✓ | |
| 12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | all ≤ 20% |

1st Level Reviewer: _____ Date: 5/11/13

2nd Level Reviewer: _____ Date: 5/11/13

* acetone is in 2nd ICV, reject acetone in first ICV (line 16) & reject all other compounds in second ICV (line 17) *



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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: 62

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 711 - 1827

Lims Batch : 173622

5/11/13

Sequence Name: C:\MSDChem\1\sequence\051013.S
Comment:
Operator: ILCZYSZYND
Data Path: C:\MSDCHEM\1\DATA\051013\

| | | |
|---|---|---|
| Top | Pre-Seq Cmd: | |
| Instrument Control | Pre-Seq Cmd: | |
| Data Analysis | Pre-Seq Cmd: | |
| Top | Post-Seq Cmd: | 173622 |
| Instrument Control | Post-Seq Cmd: | 1149 |
| Data Analysis | Post-Seq Cmd: | |

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch,
(X) Inject Anyway
( ) Don't Inject

| Line | | | Sample Name/Misc Info | | |
|---|---|---|---|---|---|
| 1) | Sample | 100 | g2_8146 | BFB | BFB 711 |
| 2) | Sample | 10 | g2_8147 | 8260B | CCV |
| 3) | Sample | 11 | g2_8148 | 8260B | CCV |
| 4) | Sample | 12 | g2_8149 | 8260B | STD003 |
| 5) | Sample | 13 | g2_8150 | 8260B | STD001 |
| 6) | Sample | 14 | g2_8151 | 8260B | STD002 |
| 7) | Sample | 15 | g2_8152 | 8260B | STD005 |
| 8) | Sample | 16 | g2_8153 | 8260B | STD010 |
| 9) | Sample | 17 | g2_8154 | 8260B | STD030 |
| 10) | Sample | 18 | g2_8155 | 8260B | STD060 |
| 11) | Sample | 19 | g2_8156 | 8260B | blk |
| 12) | Sample | 20 | g2_8157 | 8260B | icv |
| 13) | Sample | 21 | g2_8158 | 8260B | lcs |
| 14) | Sample | 22 | g2_8159 | 8260B | mb |
| 15) | Sample | 23 | g2_8160 | 8260B | icv g 9-8 (acetone only) |
| 16) | Sample | 24 | g2_8161 | 8260B | 280-42048-A-1 pH<2 |
| 17) | Sample | 25 | g2_8162 | 8260B | 280-42048-A-10 pH<2 |
| 18) | Sample | 26 | g2_8163 | 8260B | 280-42048-B-17 pH<2 |
| 19) | Sample | 27 | g2_8164 | 8260B | 280-41884-B-1 pH<2 |
| 20) | Sample | 28 | g2_8165 | 8260B | 280-41884-J-2 pH<2 |
| 21) | Sample | 29 | g2_8166 | 8260B | 280-41884-L-3 pH<2 |
| 22) | Sample | 30 | g2_8167 | 8260B | 280-41884-L-5 pH<2 |
| 23) | Sample | 31 | g2_8168 | 8260B | 280-41884-L-5 pH<2 2ml |
| 24) | Sample | 32 | g2_8169 | 8260B | 280-41886-F-2 pH<2 |
| 25) | Sample | 33 | g2_8170 | 8260B | 280-41886-F-4 pH<2 |
| 26) | Sample | 34 | g2_8171 | 8260B | 280-41909-E-9 pH<2 |
| 27) | Sample | 35 | g2_8172 | 8260B | 280-41920-E-1 pH<2 |
| 28) | Sample | 36 | g2_8173 | 8260B | 280-41920-B-2 pH<2 |
| 29) | Sample | 37 | g2_8174 | 8260B | 280-41920-B-3 pH<2 |
| 30) | Sample | 38 | g2_8175 | 8260B | 280-41920-D-5 pH<2 10ml |
| 31) | Sample | 39 | g2_8176 | 8260B | 280-41920-D-5 pH<2 1ml |
| 32) | Sample | 40 | g2_8177 | 8260B | 280-41920-C-8 pH<2 |
| 33) | Sample | 41 | g2_8178 | 8260B | 280-41920-A-10 pH<2 1827 |

*Run rejected because of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 051013 Worklist Number: 11491
Instrument Name: VMS_G2 Chrom Method: AQ_VMSG2_8260
Purge Volume: 20.00 Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_G2\20130510-11491.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_G2
Run Reagent: MV-Archon IS_00542 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00677 Amount Added: 1.000000, Units: uL

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011491-001 | # 1 BFB | MV-BFB_00009 | BFB | | voaWater | 1.000000 | uL | 1.000000 |
| 280-0011491-002 | # 2 CCV | MV-Archon IS_00542<br>MV-Gas/Ket A_00003<br>MV-Main_00028 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-003 | # 3 CCV | MV-2 Cleve_00014<br>MV-Supp Std_00035 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-004 | # 4 CCV | MV-Acetates_00006<br>MV-Archon IS_00542 | CCV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-005 | # 5 LCS | MV-524 A_00017<br>MV-624 A_00021<br>MV-SS GasKe_00026 | LCS | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-006 | # 6 MB | | MB | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-007 | # 7 280-32357-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-008 | # 8 280-32357-A-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-009 | # 9 ic | MV-Archon IS_00542<br>MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 1 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-010 | #10 ic | MV-Archon IS_00542<br>MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 2 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-011 | #11 ic | MV-Archon IS_00542<br>MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 3 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-012 | #12 ic | MV-Archon IS_00542<br>MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 4 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-013 | #13 ic | MV-Archon IS_00542<br>MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 5 | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011491-014 | #14 ic | MV-Archon IS_00542<br>MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 6 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-015 | #15 ic | MV-Archon IS_00542<br>MV-Main_00028<br>MV-Gas/Ket A_00003 | IC | 7 | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-016 | #16 icv | MV-Archon IS_00542<br>MV-SS GasKe_00026<br>MV-SecSrc B_00012<br>MV-Acrol/Acry_00030<br>MV-524ICVA_00005 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-017 | #17 icv | MV-Archon IS_00542<br>MV-SS GasKe_00026 | ICV | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-018 | #18 280-42048-A-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-019 | #19 280-42048-A-10 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-020 | #20 280-42048-B-17 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-021 | #21 280-41884-B-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-022 | #22 280-41884-J-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-023 | #23 280-41884-L-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-024 | #24 280-41884-L-5 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-025 | #25 280-41884-L-5 | | Client | | voaWater | 2.000000 | mL | 1.000000 |
| 280-0011491-026 | #26 280-41886-F-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-027 | #27 280-41886-F-4 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-028 | #28 280-41909-E-9 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-029 | #29 280-41920-E-1 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-030 | #30 280-41920-B-2 | | Client | | voaWater | 20.00 | mL | 1.000000 |

| Worklist ID | Lims ID | Sample Reagents | Sample Type | Cal Lvl | Fraction | Initial Vol/Wt | Vol/Wt Units | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| 280-0011491-031 | #31 280-41920-B-3 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-032 | #32 280-41920-D-5 | | Client | | voaWater | 10.00 | mL | 1.000000 |
| 280-0011491-033 | #33 280-41920-D-5 | | Client | | voaWater | 1.000000 | mL | 1.000000 |
| 280-0011491-034 | #34 280-41920-C-8 | | Client | | voaWater | 20.00 | mL | 1.000000 |
| 280-0011491-035 | #35 280-41920-A-10 | | Client | | voaWater | 20.00 | mL | 1.000000 |

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Batch Number: 174775 Batch Start Date: 05/17/13 06:00 Batch Analyst: Meier, Greg P

Batch Method: 5030B Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 280-174775/1 | | 5030B, 8260B/DoD | | 5 g | 5 mL | | | | |
| LCS 280-174775/2 | | 5030B, 8260B/DoD | | 5 g | 5 mL | | | | |
| 280-42039-B-1 | B255SCS0104AA | 5030B, 8260B/DoD | T | 5.214 g | 5 mL | | | | |
| 280-42039-B-2 | B255SCS0108AA | 5030B, 8260B/DoD | T | 5.296 g | 5 mL | | | | |
| 280-42039-B-3 | B255SCS0112AA | 5030B, 8260B/DoD | T | 5.303 g | 5 mL | | | | |
| 280-42039-B-4 | B255SCS0204AA | 5030B, 8260B/DoD | T | 5.120 g | 5 mL | | | | |
| 280-42039-B-5 | B255SCS0208AA | 5030B, 8260B/DoD | T | 5.104 g | 5 mL | | | | |
| 280-42039-B-6 | B255SCS0212AA | 5030B, 8260B/DoD | T | 5.112 g | 5 mL | | | | |
| 280-42039-B-7 | B255SCS0304AA | 5030B, 8260B/DoD | T | 5.178 g | 5 mL | | | | |
| 280-42039-B-8 | B255SCS0308AA | 5030B, 8260B/DoD | T | 5.097 g | 5 mL | | | | |
| 280-42039-B-9 | B255SCS0312AA | 5030B, 8260B/DoD | T | 5.099 g | 5 mL | | | | |
| 280-42039-B-10 | B255SCS0104AC | 5030B, 8260B/DoD | T | 5.116 g | 5 mL | | | | |

| Batch Notes | |
|---|---|
| Balance ID | 24850252 |
| Batch Comment | sand 2be0616 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# METALS

COVER PAGE
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

Project: Griffiss AFB DP013 Bldg 255

| Client Sample ID | Lab Sample ID |
|---|---|
| B255SCS0104AA | 280-42039-1 |
| B255SCS0108AA | 280-42039-2 |
| B255SCS0112AA | 280-42039-3 |
| B255SCS0204AA | 280-42039-4 |
| B255SCS0208AA | 280-42039-5 |
| B255SCS0212AA | 280-42039-6 |
| B255SCS0304AA | 280-42039-7 |
| B255SCS0308AA | 280-42039-8 |
| B255SCS0312AA | 280-42039-9 |
| B255SCS0104AC | 280-42039-10 |
| 050613AE | 280-42039-11 |

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0104AA
Lab Sample ID: 280-42039-1
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 14:40
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 91.2

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9000 | 47 | 2.8 | 1.5 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.57 | 1.9 | 0.57 | 0.36 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 4.8 | 2.4 | 0.95 | 0.62 | mg/Kg | | | 1 | 6010C |
| Barium | 46 | 1.9 | 0.17 | 0.072 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.41 | 0.47 | 0.066 | 0.031 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.6 | 9.5 | 0.95 | 0.93 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.18 | 0.47 | 0.095 | 0.039 | mg/Kg | J | | 1 | 6010C |
| Calcium | 7300 | 95 | 19 | 13 | mg/Kg | | | 1 | 6010C |
| Chromium | 10 | 3.3 | 0.14 | 0.055 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 7.6 | 0.95 | 0.19 | 0.095 | mg/Kg | | | 1 | 6010C |
| Copper | 33 | 4.7 | 0.47 | 0.21 | mg/Kg | | Q | 1 | 6010C |
| Iron | 21000 | 76 | 4.7 | 3.6 | mg/Kg | | | 1 | 6010C |
| Lead | 6.8 | 0.85 | 0.76 | 0.26 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3700 | 28 | 4.7 | 3.5 | mg/Kg | | | 1 | 6010C |
| Manganese | 1300 | 4.3 | 0.14 | 0.095 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.29 | 2.4 | 0.47 | 0.25 | mg/Kg | J | | 1 | 6010C |
| Nickel | 18 | 3.8 | 0.19 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 990 | 280 | 47 | 39 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.1 | 2.8 | 1.1 | 0.81 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.19 | 1.4 | 0.19 | 0.15 | mg/Kg | U | | 1 | 6010C |
| Sodium | 95 | 470 | 95 | 56 | mg/Kg | U | | 1 | 6010C |
| Thallium | 1.1 | 2.8 | 1.1 | 0.61 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 1.9 | 0.19 | 0.089 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 43 | 7.6 | 0.76 | 0.38 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0108AA
Lab Sample ID: 280-42039-2
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 14:55
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 85.2

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11000 | 52 | 3.1 | 1.6 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.63 | 2.1 | 0.63 | 0.40 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 4.0 | 2.6 | 1.0 | 0.69 | mg/Kg | | | 1 | 6010C |
| Barium | 86 | 2.1 | 0.19 | 0.080 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.41 | 0.52 | 0.073 | 0.035 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.2 | 10 | 1.0 | 1.0 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.23 | 0.52 | 0.10 | 0.043 | mg/Kg | J | | 1 | 6010C |
| Calcium | 3700 | 100 | 21 | 15 | mg/Kg | | | 1 | 6010C |
| Chromium | 13 | 3.7 | 0.16 | 0.061 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.2 | 1.0 | 0.21 | 0.10 | mg/Kg | | | 1 | 6010C |
| Copper | 15 | 5.2 | 0.52 | 0.23 | mg/Kg | | Q | 1 | 6010C |
| Iron | 21000 | 84 | 5.2 | 4.0 | mg/Kg | | | 1 | 6010C |
| Lead | 9.4 | 0.94 | 0.84 | 0.28 | mg/Kg | | | 1 | 6010C |
| Magnesium | 2200 | 31 | 5.2 | 3.9 | mg/Kg | | | 1 | 6010C |
| Manganese | 1500 | 4.7 | 0.16 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 1.0 | 2.6 | 0.52 | 0.27 | mg/Kg | J | | 1 | 6010C |
| Nickel | 11 | 4.2 | 0.21 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 850 | 310 | 52 | 43 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.1 | 1.3 | 0.90 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.19 | 1.6 | 0.21 | 0.17 | mg/Kg | J | | 1 | 6010C |
| Sodium | 170 | 520 | 100 | 62 | mg/Kg | J | | 1 | 6010C |
| Thallium | 1.3 | 3.1 | 1.3 | 0.68 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 24 | 2.1 | 0.21 | 0.099 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 52 | 8.4 | 0.84 | 0.42 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0112AA
Lab Sample ID: 280-42039-3
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 15:00
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 90.1

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 10000 | 52 | 3.1 | 1.6 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.62 | 2.1 | 0.62 | 0.39 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 3.9 | 2.6 | 1.0 | 0.68 | mg/Kg | | | 1 | 6010C |
| Barium | 48 | 2.1 | 0.19 | 0.079 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.49 | 0.52 | 0.073 | 0.034 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.7 | 10 | 1.0 | 1.0 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.15 | 0.52 | 0.10 | 0.043 | mg/Kg | J | | 1 | 6010C |
| Calcium | 2400 | 100 | 21 | 15 | mg/Kg | | | 1 | 6010C |
| Chromium | 15 | 3.6 | 0.16 | 0.060 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.9 | 1.0 | 0.21 | 0.10 | mg/Kg | | | 1 | 6010C |
| Copper | 29 | 5.2 | 0.52 | 0.23 | mg/Kg | | Q | 1 | 6010C |
| Iron | 20000 | 83 | 5.2 | 3.9 | mg/Kg | | | 1 | 6010C |
| Lead | 5.6 | 0.93 | 0.83 | 0.28 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3900 | 31 | 5.2 | 3.8 | mg/Kg | | | 1 | 6010C |
| Manganese | 1000 | 4.7 | 0.16 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 1.0 | 2.6 | 0.52 | 0.27 | mg/Kg | J | | 1 | 6010C |
| Nickel | 16 | 4.2 | 0.21 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 1200 | 310 | 52 | 43 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.1 | 1.2 | 0.89 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.21 | 1.6 | 0.21 | 0.17 | mg/Kg | U | | 1 | 6010C |
| Sodium | 93 | 520 | 100 | 61 | mg/Kg | J | | 1 | 6010C |
| Thallium | 1.2 | 3.1 | 1.2 | 0.67 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 17 | 2.1 | 0.21 | 0.098 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 50 | 8.3 | 0.83 | 0.41 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0204AA
Lab Sample ID: 280-42039-4
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 15:15
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 91.6

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 8400 | 51 | 3.1 | 1.6 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.61 | 2.0 | 0.61 | 0.39 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 5.5 | 2.6 | 1.0 | 0.67 | mg/Kg | | | 1 | 6010C |
| Barium | 34 | 2.0 | 0.18 | 0.078 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.46 | 0.51 | 0.071 | 0.034 | mg/Kg | J | | 1 | 6010C |
| Boron | 2.5 | 10 | 1.0 | 1.0 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.23 | 0.51 | 0.10 | 0.042 | mg/Kg | J | | 1 | 6010C |
| Calcium | 6800 | 100 | 20 | 14 | mg/Kg | | | 1 | 6010C |
| Chromium | 11 | 3.6 | 0.15 | 0.059 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 7.1 | 1.0 | 0.20 | 0.10 | mg/Kg | | | 1 | 6010C |
| Copper | 27 | 5.1 | 0.51 | 0.22 | mg/Kg | | Q | 1 | 6010C |
| Iron | 17000 | 82 | 5.1 | 3.9 | mg/Kg | | | 1 | 6010C |
| Lead | 19 | 0.92 | 0.82 | 0.28 | mg/Kg | | | 1 | 6010C |
| Magnesium | 4100 | 31 | 5.1 | 3.8 | mg/Kg | | | 1 | 6010C |
| Manganese | 700 | 4.6 | 0.15 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.32 | 2.6 | 0.51 | 0.27 | mg/Kg | J | | 1 | 6010C |
| Nickel | 16 | 4.1 | 0.20 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 1300 | 310 | 51 | 42 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.1 | 1.2 | 0.88 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.20 | 1.5 | 0.20 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 100 | 510 | 100 | 60 | mg/Kg | U | | 1 | 6010C |
| Thallium | 1.2 | 3.1 | 1.2 | 0.66 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 17 | 2.0 | 0.20 | 0.096 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 50 | 8.2 | 0.82 | 0.41 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0208AA
Lab Sample ID: 280-42039-5
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 15:19
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 85.3

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11000 | 56 | 3.4 | 1.7 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.68 | 2.3 | 0.68 | 0.43 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 3.3 | 2.8 | 1.1 | 0.74 | mg/Kg | | | 1 | 6010C |
| Barium | 66 | 2.3 | 0.20 | 0.086 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.39 | 0.56 | 0.079 | 0.037 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.8 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.31 | 0.56 | 0.11 | 0.046 | mg/Kg | J | | 1 | 6010C |
| Calcium | 5400 | 110 | 23 | 16 | mg/Kg | | | 1 | 6010C |
| Chromium | 12 | 3.9 | 0.17 | 0.065 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.7 | 1.1 | 0.23 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 19 | 5.6 | 0.56 | 0.24 | mg/Kg | | Q | 1 | 6010C |
| Iron | 17000 | 90 | 5.6 | 4.3 | mg/Kg | | | 1 | 6010C |
| Lead | 14 | 1.0 | 0.90 | 0.30 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3300 | 34 | 5.6 | 4.2 | mg/Kg | | | 1 | 6010C |
| Manganese | 950 | 5.1 | 0.17 | 0.11 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.49 | 2.8 | 0.56 | 0.29 | mg/Kg | J | | 1 | 6010C |
| Nickel | 12 | 4.5 | 0.23 | 0.14 | mg/Kg | | | 1 | 6010C |
| Potassium | 990 | 340 | 56 | 46 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.4 | 3.4 | 1.4 | 0.97 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.23 | 1.7 | 0.23 | 0.18 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 560 | 110 | 67 | mg/Kg | U | | 1 | 6010C |
| Thallium | 1.4 | 3.4 | 1.4 | 0.73 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 21 | 2.3 | 0.23 | 0.11 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 58 | 9.0 | 0.90 | 0.45 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0212AA
Lab Sample ID: 280-42039-6
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 15:25
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 90.5

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9000 | 54 | 3.2 | 1.7 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.64 | 2.1 | 0.64 | 0.41 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 3.4 | 2.7 | 1.1 | 0.71 | mg/Kg | | | 1 | 6010C |
| Barium | 37 | 2.1 | 0.19 | 0.081 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.39 | 0.54 | 0.075 | 0.035 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.8 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.13 | 0.54 | 0.11 | 0.044 | mg/Kg | J | | 1 | 6010C |
| Calcium | 2000 | 110 | 21 | 15 | mg/Kg | | | 1 | 6010C |
| Chromium | 12 | 3.8 | 0.16 | 0.062 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 5.8 | 1.1 | 0.21 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 27 | 5.4 | 0.54 | 0.23 | mg/Kg | | Q | 1 | 6010C |
| Iron | 18000 | 86 | 5.4 | 4.1 | mg/Kg | | | 1 | 6010C |
| Lead | 5.7 | 0.97 | 0.86 | 0.29 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3700 | 32 | 5.4 | 4.0 | mg/Kg | | | 1 | 6010C |
| Manganese | 960 | 4.8 | 0.16 | 0.11 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.63 | 2.7 | 0.54 | 0.28 | mg/Kg | J | | 1 | 6010C |
| Nickel | 14 | 4.3 | 0.21 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 1100 | 320 | 54 | 44 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.2 | 1.3 | 0.92 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.21 | 1.6 | 0.21 | 0.17 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 540 | 110 | 63 | mg/Kg | U | | 1 | 6010C |
| Thallium | 1.3 | 3.2 | 1.3 | 0.70 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 2.1 | 0.21 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 48 | 8.6 | 0.86 | 0.43 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0304AA
Lab Sample ID: 280-42039-7
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 15:45
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 91.6

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 7600 | 50 | 3.0 | 1.5 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.60 | 2.0 | 0.60 | 0.38 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 3.9 | 2.5 | 0.99 | 0.66 | mg/Kg | | | 1 | 6010C |
| Barium | 51 | 2.0 | 0.18 | 0.075 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.37 | 0.50 | 0.069 | 0.033 | mg/Kg | J | | 1 | 6010C |
| Boron | 3.0 | 9.9 | 0.99 | 0.97 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.25 | 0.50 | 0.099 | 0.041 | mg/Kg | J | | 1 | 6010C |
| Calcium | 10000 | 99 | 20 | 14 | mg/Kg | | | 1 | 6010C |
| Chromium | 12 | 3.5 | 0.15 | 0.058 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 5.9 | 0.99 | 0.20 | 0.099 | mg/Kg | | | 1 | 6010C |
| Copper | 25 | 5.0 | 0.50 | 0.22 | mg/Kg | | Q | 1 | 6010C |
| Iron | 14000 | 79 | 5.0 | 3.8 | mg/Kg | | | 1 | 6010C |
| Lead | 36 | 0.89 | 0.79 | 0.27 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3100 | 30 | 5.0 | 3.7 | mg/Kg | | | 1 | 6010C |
| Manganese | 570 | 4.5 | 0.15 | 0.099 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.50 | 2.5 | 0.50 | 0.26 | mg/Kg | U | | 1 | 6010C |
| Nickel | 13 | 4.0 | 0.20 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 1100 | 300 | 50 | 41 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.0 | 1.2 | 0.85 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.20 | 1.5 | 0.20 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 62 | 500 | 99 | 59 | mg/Kg | J | | 1 | 6010C |
| Thallium | 1.2 | 3.0 | 1.2 | 0.65 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 2.0 | 0.20 | 0.093 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 54 | 7.9 | 0.79 | 0.40 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0308AA
Lab Sample ID: 280-42039-8
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 15:52
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 89.3

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 12000 | 49 | 2.9 | 1.5 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.59 | 2.0 | 0.59 | 0.37 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 4.1 | 2.5 | 0.98 | 0.65 | mg/Kg | | | 1 | 6010C |
| Barium | 35 | 2.0 | 0.18 | 0.075 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.48 | 0.49 | 0.069 | 0.032 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.8 | 9.8 | 0.98 | 0.96 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.20 | 0.49 | 0.098 | 0.040 | mg/Kg | J | | 1 | 6010C |
| Calcium | 8500 | 98 | 20 | 14 | mg/Kg | | | 1 | 6010C |
| Chromium | 15 | 3.4 | 0.15 | 0.057 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.9 | 0.98 | 0.20 | 0.098 | mg/Kg | | | 1 | 6010C |
| Copper | 29 | 4.9 | 0.49 | 0.21 | mg/Kg | | Q | 1 | 6010C |
| Iron | 21000 | 79 | 4.9 | 3.7 | mg/Kg | | | 1 | 6010C |
| Lead | 6.9 | 0.88 | 0.79 | 0.27 | mg/Kg | | | 1 | 6010C |
| Magnesium | 4500 | 29 | 4.9 | 3.6 | mg/Kg | | | 1 | 6010C |
| Manganese | 900 | 4.4 | 0.15 | 0.098 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.80 | 2.5 | 0.49 | 0.26 | mg/Kg | J | | 1 | 6010C |
| Nickel | 19 | 3.9 | 0.20 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 1100 | 290 | 49 | 40 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 2.9 | 1.2 | 0.84 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.20 | 1.5 | 0.20 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 98 | 490 | 98 | 58 | mg/Kg | U | | 1 | 6010C |
| Thallium | 1.2 | 2.9 | 1.2 | 0.64 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 20 | 2.0 | 0.20 | 0.092 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 54 | 7.9 | 0.79 | 0.39 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0312AA
Lab Sample ID: 280-42039-9
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 15:59
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 91.2

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9000 | 46 | 2.7 | 1.4 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.55 | 1.8 | 0.55 | 0.35 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 3.9 | 2.3 | 0.91 | 0.60 | mg/Kg | | | 1 | 6010C |
| Barium | 38 | 1.8 | 0.16 | 0.069 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.39 | 0.46 | 0.064 | 0.030 | mg/Kg | J | | 1 | 6010C |
| Boron | 2.1 | 9.1 | 0.91 | 0.90 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.12 | 0.46 | 0.091 | 0.037 | mg/Kg | J | | 1 | 6010C |
| Calcium | 9000 | 91 | 18 | 13 | mg/Kg | | | 1 | 6010C |
| Chromium | 12 | 3.2 | 0.14 | 0.053 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.5 | 0.91 | 0.18 | 0.091 | mg/Kg | | | 1 | 6010C |
| Copper | 34 | 4.6 | 0.46 | 0.20 | mg/Kg | | Q | 1 | 6010C |
| Iron | 18000 | 73 | 4.6 | 3.5 | mg/Kg | | | 1 | 6010C |
| Lead | 6.1 | 0.82 | 0.73 | 0.25 | mg/Kg | | | 1 | 6010C |
| Magnesium | 4200 | 27 | 4.6 | 3.4 | mg/Kg | | | 1 | 6010C |
| Manganese | 850 | 4.1 | 0.14 | 0.091 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.60 | 2.3 | 0.46 | 0.24 | mg/Kg | J | | 1 | 6010C |
| Nickel | 15 | 3.7 | 0.18 | 0.11 | mg/Kg | | | 1 | 6010C |
| Potassium | 1100 | 270 | 46 | 37 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.1 | 2.7 | 1.1 | 0.79 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.18 | 1.4 | 0.18 | 0.15 | mg/Kg | U | | 1 | 6010C |
| Sodium | 460 | 2300 | 460 | 270 | mg/Kg | U | | 5 | 6010C |
| Thallium | 1.1 | 2.7 | 1.1 | 0.59 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 1.8 | 0.18 | 0.086 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 47 | 7.3 | 0.73 | 0.36 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0104AC
Lab Sample ID: 280-42039-10
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/06/2013 14:42
Reporting Basis: DRY
Date Received: 05/08/2013 09:15
% Solids: 91.0

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9800 | 52 | 3.1 | 1.6 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.62 | 2.1 | 0.62 | 0.39 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 3.5 | 2.6 | 1.0 | 0.68 | mg/Kg | | | 1 | 6010C |
| Barium | 33 | 2.1 | 0.19 | 0.079 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.39 | 0.52 | 0.073 | 0.034 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.7 | 10 | 1.0 | 1.0 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.17 | 0.52 | 0.10 | 0.042 | mg/Kg | J | | 1 | 6010C |
| Calcium | 2000 | 100 | 21 | 15 | mg/Kg | | | 1 | 6010C |
| Chromium | 11 | 3.6 | 0.16 | 0.060 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 5.6 | 1.0 | 0.21 | 0.10 | mg/Kg | | | 1 | 6010C |
| Copper | 21 | 5.2 | 0.52 | 0.22 | mg/Kg | | Q | 1 | 6010C |
| Iron | 17000 | 83 | 5.2 | 3.9 | mg/Kg | | | 1 | 6010C |
| Lead | 9.4 | 0.93 | 0.83 | 0.28 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3400 | 31 | 5.2 | 3.8 | mg/Kg | | | 1 | 6010C |
| Manganese | 540 | 4.7 | 0.16 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.52 | 2.6 | 0.52 | 0.27 | mg/Kg | U | | 1 | 6010C |
| Nickel | 14 | 4.1 | 0.21 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 910 | 310 | 52 | 42 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.1 | 1.2 | 0.89 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.21 | 1.6 | 0.21 | 0.17 | mg/Kg | U | | 1 | 6010C |
| Sodium | 100 | 520 | 100 | 61 | mg/Kg | U | | 1 | 6010C |
| Thallium | 1.2 | 3.1 | 1.2 | 0.67 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 17 | 2.1 | 0.21 | 0.097 | mg/Kg | | Q | 1 | 6010C |
| Zinc | 48 | 8.3 | 0.83 | 0.41 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 050613AE
Lab Sample ID: 280-42039-11
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG ID.:
Matrix: Water
Date Sampled: 05/06/2013 16:30
Reporting Basis: WET
Date Received: 05/08/2013 09:15

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 31 | 300 | 31 | 18 | ug/L | U | | 1 | 6010C |
| Antimony | 8.0 | 20 | 8.0 | 3.1 | ug/L | U | | 1 | 6010C |
| Arsenic | 12 | 25 | 12 | 4.4 | ug/L | U | | 1 | 6010C |
| Barium | 0.82 | 10 | 1.5 | 0.58 | ug/L | J | | 1 | 6010C |
| Beryllium | 0.50 | 1.5 | 0.50 | 0.47 | ug/L | U | | 1 | 6010C |
| Boron | 7.0 | 100 | 7.0 | 4.4 | ug/L | U | | 1 | 6010C |
| Cadmium | 0.80 | 5.0 | 0.80 | 0.45 | ug/L | U | | 1 | 6010C |
| Calcium | 80 | 1000 | 80 | 35 | ug/L | U | | 1 | 6010C |
| Chromium | 1.5 | 15 | 1.5 | 0.66 | ug/L | U | Q | 1 | 6010C |
| Cobalt | 2.0 | 15 | 2.0 | 1.2 | ug/L | U | | 1 | 6010C |
| Copper | 3.5 | 15 | 3.5 | 1.4 | ug/L | U | Q | 1 | 6010C |
| Iron | 29 | 100 | 30 | 22 | ug/L | J | | 1 | 6010C |
| Lead | 5.0 | 15 | 5.0 | 2.6 | ug/L | U | | 1 | 6010C |
| Magnesium | 25 | 500 | 25 | 11 | ug/L | U | | 1 | 6010C |
| Manganese | 0.69 | 10 | 0.50 | 0.25 | ug/L | J | Q | 1 | 6010C |
| Molybdenum | 7.0 | 30 | 7.0 | 3.1 | ug/L | U | | 1 | 6010C |
| Nickel | 3.0 | 40 | 3.0 | 1.3 | ug/L | U | | 1 | 6010C |
| Potassium | 250 | 3000 | 250 | 240 | ug/L | U | | 1 | 6010C |
| Selenium | 12 | 22 | 12 | 4.9 | ug/L | U | | 1 | 6010C |
| Silver | 2.0 | 15 | 2.0 | 0.93 | ug/L | U | | 1 | 6010C |
| Sodium | 250 | 5000 | 250 | 92 | ug/L | U | | 1 | 6010C |
| Thallium | 12 | 40 | 12 | 4.9 | ug/L | U | | 1 | 6010C |
| Vanadium | 2.5 | 15 | 2.5 | 1.1 | ug/L | U | Q | 1 | 6010C |
| Zinc | 13 | 150 | 13 | 4.5 | ug/L | U | | 1 | 6010C |

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111  Concentration Units: ug/L

CCV Source: ICP CCVH_00265

| Analyte | ICVH 280-175815/6 05/23/2013 13:45 | | | | CCVH 280-175815/22 05/23/2013 16:12 | | | | CCVH 280-175815/36 05/23/2013 16:43 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Iron** | 80700 | | 80000 | 101 | 50400 | | 50000 | 101 | 51200 | | 50000 | 102 |
| *Aluminum* | 39400 | | 40000 | 99 | 49300 | | 50000 | 99 | 49700 | | 50000 | 99 |
| *Sodium* | 40800 | | 40000 | 102 | 254000 | | 250000 | 102 | 256000 | | 250000 | 102 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089  Concentration Units: ug/L

CCV Source: ICP CCVL_00313

| Analyte | ICV 280-175815/7 05/23/2013 13:49 | | | | CCV 280-175815/23 05/23/2013 16:14 | | | | CCV 280-175815/37 05/23/2013 16:45 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Iron** | 247 | | 250 | 99 | 2440 | | 2500 | 97 | 2430 | | 2500 | 97 |
| *Aluminum* | 260 | | 250 | 104 | 512 | | 500 | 102 | 513 | | 500 | 103 |
| *Antimony* | 258 | | 250 | 103 | 999 | | 1000 | 100 | 1010 | | 1000 | 101 |
| *Arsenic* | 244 | | 250 | 98 | 1000 | | 1000 | 100 | 1010 | | 1000 | 101 |
| *Barium* | 248 | | 250 | 99 | 497 | | 500 | 99 | 498 | | 500 | 100 |
| *Beryllium* | 238 | | 250 | 95 | 482 | | 500 | 96 | 484 | | 500 | 97 |
| *Boron* | 253 | | 250 | 101 | 510 | | 500 | 102 | 513 | | 500 | 103 |
| *Cadmium* | 249 | | 250 | 100 | 495 | | 500 | 99 | 495 | | 500 | 99 |
| *Calcium* | 2000 | | 2000 | 100 | 4910 | | 5000 | 98 | 4900 | | 5000 | 98 |
| *Chromium* | 254 | | 250 | 101 | 512 | | 500 | 102 | 515 | | 500 | 103 |
| *Cobalt* | 252 | | 250 | 101 | 503 | | 500 | 101 | 504 | | 500 | 101 |
| *Copper* | 252 | | 250 | 101 | | | | | 502 | | 500 | 100 |
| *Lead* | 255 | | 250 | 102 | 1000 | | 1000 | 100 | 996 | | 1000 | 100 |
| *Magnesium* | 9930 | | 10000 | 99 | 19800 | | 20000 | 99 | 20100 | | 20000 | 100 |
| *Manganese* | 248 | | 250 | 99 | 493 | | 500 | 99 | 496 | | 500 | 99 |
| *Molybdenum* | 255 | | 250 | 102 | 507 | | 500 | 101 | 510 | | 500 | 102 |
| *Nickel* | 256 | | 250 | 102 | 516 | | 500 | 103 | 519 | | 500 | 104 |
| *Potassium* | 19900 | | 20000 | 99 | 49000 | | 50000 | 98 | 48800 | | 50000 | 98 |
| *Selenium* | 498 | | 500 | 100 | 1010 | | 1000 | 101 | 1020 | | 1000 | 102 |
| *Silver* | 256 | | 250 | 103 | 510 | | 500 | 102 | 517 | | 500 | 103 |
| *Sodium* | 2050 | | 2000 | 103 | 5050 | | 5000 | 101 | 5050 | | 5000 | 101 |
| *Thallium* | 516 | | 500 | 103 | 1020 | | 1000 | 102 | 1020 | | 1000 | 102 |
| *Vanadium* | 241 | | 250 | 96 | 483 | | 500 | 97 | 487 | | 500 | 97 |
| *Zinc* | 249 | | 250 | 100 | 529 | | 500 | 106 | 505 | | 500 | 101 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00887  Concentration Units: ug/L

CCV Source: ICP LLCCV_00887

| Analyte | ICVL 280-175815/8 05/23/2013 13:53 | | | | CCVL 280-175815/25 05/23/2013 16:19 | | | | CCVL 280-175815/39 05/23/2013 16:50 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Iron** | 101 | | 100 | 101 | 99.3 | J | 100 | 99 | 97.6 | J | 100 | 98 |
| *Aluminum* | 107 | | 100 | 107 | 106 | | 100 | 106 | 107 | | 100 | 107 |
| *Antimony* | 10.1 | | 10.0 | 101 | 11.2 | | 10.0 | 112 | 12.3 | | 10.0 | 123 |
| *Arsenic* | 13.8 | J | 15.0 | 92 | 14.7 | J | 15.0 | 98 | 13.5 | J | 15.0 | 90 |
| *Barium* | 9.89 | J | 10.0 | 99 | 9.70 | J | 10.0 | 97 | 10.2 | | 10.0 | 102 |
| *Beryllium* | 1.02 | | 1.00 | 102 | 0.940 | J | 1.00 | 94 | 0.980 | J | 1.00 | 98 |
| *Boron* | 104 | | 100 | 104 | 104 | | 100 | 104 | 106 | | 100 | 106 |
| *Cadmium* | 5.35 | | 5.00 | 107 | 5.08 | | 5.00 | 102 | 5.10 | | 5.00 | 102 |
| *Calcium* | 207 | | 200 | 104 | 204 | | 200 | 102 | 203 | | 200 | 101 |
| *Chromium* | 10.5 | | 10.0 | 105 | 10.5 | | 10.0 | 105 | 10.7 | | 10.0 | 107 |
| *Cobalt* | 10.5 | | 10.0 | 105 | 10.7 | | 10.0 | 107 | 10.4 | | 10.0 | 104 |
| *Copper* | 15.9 | | 15.0 | 106 | 15.9 | | 15.0 | 106 | 15.4 | | 15.0 | 103 |
| *Lead* | 7.86 | J | 9.00 | 87 | 8.53 | J | 9.00 | 95 | 7.57 | J | 9.00 | 84 |
| *Magnesium* | 214 | | 200 | 107 | 210 | | 200 | 105 | 213 | | 200 | 106 |
| *Manganese* | 10.2 | | 10.0 | 102 | 10.3 | | 10.0 | 103 | 10.3 | | 10.0 | 103 |
| *Molybdenum* | 20.9 | | 20.0 | 105 | 20.8 | | 20.0 | 104 | 20.8 | | 20.0 | 104 |
| *Nickel* | 42.4 | | 40.0 | 106 | 42.6 | | 40.0 | 107 | 43.2 | | 40.0 | 108 |
| *Potassium* | 3100 | | 3000 | 103 | 3070 | | 3000 | 102 | 3030 | | 3000 | 101 |
| *Selenium* | 14.1 | J | 15.0 | 94 | 15.9 | | 15.0 | 106 | 18.2 | | 15.0 | 122 |
| *Silver* | 10.3 | | 10.0 | 103 | 10.0 | | 10.0 | 100 | 10.1 | | 10.0 | 101 |
| *Sodium* | 1060 | | 1000 | 106 | 1080 | | 1000 | 108 | 1050 | | 1000 | 105 |
| *Thallium* | 17.3 | | 15.0 | 115 | 16.6 | | 15.0 | 110 | 16.5 | | 15.0 | 110 |
| *Vanadium* | 9.11 | J | 10.0 | 91 | 9.45 | J | 10.0 | 95 | 9.41 | J | 10.0 | 94 |
| *Zinc* | 22.4 | | 20.0 | 112 | 22.5 | | 20.0 | 112 | 22.6 | | 20.0 | 113 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111 Concentration Units: ug/L

CCV Source: ICP CCVH_00263

| Analyte | ICVH 280-174408/6 05/14/2013 12:15 | | | | CCVH 280-174408/75 05/15/2013 09:57 | | | | CCVH 280-174408/86 05/15/2013 10:24 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 40100 | | 40000 | 100 | 52200 | | 50000 | 104 | 50400 | | 50000 | 101 |
| **Iron** | 79500 | | 80000 | 99 | 52500 | | 50000 | 105 | 50300 | | 50000 | 101 |
| *Sodium* | 41300 | | 40000 | 103 | 271000 | | 250000 | 108 | 263000 | | 250000 | 105 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111  Concentration Units: ug/L

CCV Source: ICP CCVH_00263

| Analyte | CCVH 280-174408/99 05/15/2013 10:55 | | | | CCVH 280-174408/109 05/15/2013 11:19 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 52300 | | 50000 | 105 | 51900 | | 50000 | 104 | | | | |
| **Iron** | 52200 | | 50000 | 104 | 52600 | | 50000 | 105 | | | | |
| *Sodium* | 270000 | | 250000 | 108 | 271000 | | 250000 | 108 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089  Concentration Units: ug/L

CCV Source: ICP CCVL_00311

| Analyte | ICV 280-174408/7 05/14/2013 12:18 | | | | CCV 280-174408/76 05/15/2013 10:00 | | | | CCV 280-174408/87 05/15/2013 10:26 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 247 | | 250 | 99 | 515 | | 500 | 103 | 525 | | 500 | 105 |
| **Antimony** | 248 | | 250 | 99 | 1030 | | 1000 | 103 | 1050 | | 1000 | 105 |
| **Arsenic** | 248 | | 250 | 99 | 1050 | | 1000 | 105 | 1070 | | 1000 | 107 |
| **Barium** | 254 | | 250 | 101 | 520 | | 500 | 104 | 530 | | 500 | 106 |
| **Beryllium** | 242 | | 250 | 97 | 492 | | 500 | 98 | 500 | | 500 | 100 |
| **Boron** | 250 | | 250 | 100 | 510 | | 500 | 102 | 523 | | 500 | 105 |
| **Cadmium** | 251 | | 250 | 100 | 520 | | 500 | 104 | 528 | | 500 | 106 |
| **Calcium** | 2040 | | 2000 | 102 | 5150 | | 5000 | 103 | 5250 | | 5000 | 105 |
| **Chromium** | 250 | | 250 | 100 | 513 | | 500 | 103 | 523 | | 500 | 105 |
| **Cobalt** | 253 | | 250 | 101 | 525 | | 500 | 105 | 533 | | 500 | 107 |
| **Copper** | 247 | | 250 | 99 | 513 | | 500 | 103 | 521 | | 500 | 104 |
| **Iron** | 251 | | 250 | 100 | 2500 | | 2500 | 100 | 2530 | | 2500 | 101 |
| **Lead** | 254 | | 250 | 102 | 1040 | | 1000 | 104 | 1050 | | 1000 | 105 |
| **Magnesium** | 10300 | | 10000 | 103 | 21700 | | 20000 | 108 | 22000 | | 20000 | 110 |
| **Manganese** | 256 | | 250 | 102 | 535 | | 500 | 107 | 540 | | 500 | 108 |
| **Molybdenum** | 246 | | 250 | 98 | 507 | | 500 | 101 | 519 | | 500 | 104 |
| **Nickel** | 254 | | 250 | 102 | 523 | | 500 | 105 | 532 | | 500 | 106 |
| **Potassium** | 20800 | | 20000 | 104 | 52200 | | 50000 | 104 | 53400 | | 50000 | 107 |
| **Selenium** | 493 | | 500 | 99 | 1040 | | 1000 | 104 | 1070 | | 1000 | 107 |
| **Silver** | 259 | | 250 | 104 | 534 | | 500 | 107 | 539 | | 500 | 108 |
| **Thallium** | 506 | | 500 | 101 | 1010 | | 1000 | 101 | 1030 | | 1000 | 103 |
| **Vanadium** | 250 | | 250 | 100 | 524 | | 500 | 105 | 528 | | 500 | 106 |
| *Sodium* | 2090 | | 2000 | 104 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089 Concentration Units: ug/L

CCV Source: ICP CCVL_00311

| Analyte | CCV 280-174408/100 05/15/2013 10:57 | | | | CCV 280-174408/110 05/15/2013 11:21 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 515 | | 500 | 103 | 514 | | 500 | 103 | | | | |
| **Antimony** | 1050 | | 1000 | 105 | 1030 | | 1000 | 103 | | | | |
| **Arsenic** | 1060 | | 1000 | 106 | 1050 | | 1000 | 105 | | | | |
| **Barium** | 524 | | 500 | 105 | 512 | | 500 | 102 | | | | |
| **Beryllium** | 495 | | 500 | 99 | 493 | | 500 | 99 | | | | |
| **Boron** | 511 | | 500 | 102 | 503 | | 500 | 101 | | | | |
| **Cadmium** | 528 | | 500 | 106 | 516 | | 500 | 103 | | | | |
| **Calcium** | 5200 | | 5000 | 104 | 5130 | | 5000 | 103 | | | | |
| **Chromium** | 515 | | 500 | 103 | 507 | | 500 | 101 | | | | |
| **Cobalt** | 532 | | 500 | 106 | 521 | | 500 | 104 | | | | |
| **Copper** | 520 | | 500 | 104 | 511 | | 500 | 102 | | | | |
| **Iron** | 2520 | | 2500 | 101 | 2450 | | 2500 | 98 | | | | |
| **Lead** | 1050 | | 1000 | 105 | 1030 | | 1000 | 103 | | | | |
| **Magnesium** | 22000 | | 20000 | 110 | 21700 | | 20000 | 108 | | | | |
| **Manganese** | 543 | | 500 | 109 | 533 | | 500 | 107 | | | | |
| **Molybdenum** | 506 | | 500 | 101 | 499 | | 500 | 100 | | | | |
| **Nickel** | 525 | | 500 | 105 | 518 | | 500 | 104 | | | | |
| **Potassium** | 52700 | | 50000 | 105 | 51600 | | 50000 | 103 | | | | |
| **Selenium** | 1040 | | 1000 | 104 | 1030 | | 1000 | 103 | | | | |
| **Silver** | 545 | | 500 | 109 | 530 | | 500 | 106 | | | | |
| **Thallium** | 1010 | | 1000 | 101 | 992 | | 1000 | 99 | | | | |
| **Vanadium** | 528 | | 500 | 106 | 520 | | 500 | 104 | | | | |
| *Sodium* | 5380 | | 5000 | 108 | 5260 | | 5000 | 105 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00879  Concentration Units: ug/L

CCV Source: ICP LLCCV_00879

| Analyte | ICVL 280-174408/8 05/14/2013 12:20 | | | | CCVL 280-174408/78 05/15/2013 10:04 | | | | CCVL 280-174408/89 05/15/2013 10:31 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 100 | | 100 | 100 | 105 | | 100 | 105 | 107 | | 100 | 107 |
| **Antimony** | 9.74 | J | 10.0 | 97 | 8.39 | J | 10.0 | 84 | 8.68 | J | 10.0 | 87 |
| **Arsenic** | 15.2 | | 15.0 | 101 | 17.9 | | 15.0 | 119 | 14.7 | J | 15.0 | 98 |
| **Barium** | 10.8 | | 10.0 | 108 | 11.3 | | 10.0 | 113 | 11.5 | | 10.0 | 115 |
| **Beryllium** | 0.990 | J | 1.00 | 99 | 1.00 | | 1.00 | 100 | 0.920 | J | 1.00 | 92 |
| **Boron** | 98.7 | J | 100 | 99 | 96.7 | J | 100 | 97 | 98.7 | J | 100 | 99 |
| **Cadmium** | 5.17 | | 5.00 | 103 | 5.42 | | 5.00 | 108 | 5.50 | | 5.00 | 110 |
| **Calcium** | 206 | | 200 | 103 | 221 | | 200 | 110 | 222 | | 200 | 111 |
| **Chromium** | 10.4 | | 10.0 | 104 | 10.6 | | 10.0 | 106 | 11.1 | | 10.0 | 111 |
| **Cobalt** | 10.9 | | 10.0 | 109 | 11.5 | | 10.0 | 115 | 11.6 | | 10.0 | 116 |
| **Copper** | 14.9 | J | 15.0 | 99 | 15.9 | | 15.0 | 106 | 16.9 | | 15.0 | 113 |
| **Iron** | 109 | | 100 | 109 | 111 | | 100 | 111 | 111 | | 100 | 111 |
| **Lead** | 10.6 | | 9.00 | 118 | 10.2 | | 9.00 | 113 | 8.95 | J | 9.00 | 99 |
| **Magnesium** | 216 | | 200 | 108 | 228 | | 200 | 114 | 233 | | 200 | 117 |
| **Manganese** | 10.6 | | 10.0 | 106 | 11.2 | | 10.0 | 112 | 11.4 | | 10.0 | 114 |
| **Molybdenum** | 19.6 | J | 20.0 | 98 | 20.7 | | 20.0 | 103 | 20.8 | | 20.0 | 104 |
| **Nickel** | 42.1 | | 40.0 | 105 | 43.9 | | 40.0 | 110 | 44.5 | | 40.0 | 111 |
| **Potassium** | 3160 | | 3000 | 105 | 3310 | | 3000 | 110 | 3290 | | 3000 | 110 |
| **Selenium** | 16.9 | | 15.0 | 112 | 14.1 | J | 15.0 | 94 | 16.1 | | 15.0 | 107 |
| **Silver** | 10.3 | | 10.0 | 103 | 10.7 | | 10.0 | 107 | 10.4 | | 10.0 | 104 |
| **Thallium** | 16.0 | | 15.0 | 107 | 15.5 | | 15.0 | 103 | 15.2 | | 15.0 | 101 |
| **Vanadium** | 9.79 | J | 10.0 | 98 | 10.6 | | 10.0 | 106 | 9.94 | J | 10.0 | 99 |
| *Sodium* | 1100 | | 1000 | 110 | | | | | | | | |
| *Zinc* | 24.0 | | 20.0 | 120 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00879  Concentration Units: ug/L

CCV Source: ICP LLCCV_00879

| Analyte | CCVL 280-174408/102 05/15/2013 11:02 | | | | CCVL 280-174408/112 05/15/2013 11:26 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 120 | | 100 | 120 | 104 | | 100 | 104 | | | | |
| **Antimony** | 10.6 | | 10.0 | 106 | 9.87 | J | 10.0 | 99 | | | | |
| **Arsenic** | 15.9 | | 15.0 | 106 | 16.1 | | 15.0 | 107 | | | | |
| **Barium** | 11.9 | | 10.0 | 119 | 11.1 | | 10.0 | 111 | | | | |
| **Beryllium** | 0.990 | J | 1.00 | 99 | 0.970 | J | 1.00 | 97 | | | | |
| **Boron** | 91.8 | J | 100 | 92 | 95.2 | J | 100 | 95 | | | | |
| **Cadmium** | 5.46 | | 5.00 | 109 | 5.18 | | 5.00 | 104 | | | | |
| **Calcium** | | | | | 215 | | 200 | 107 | | | | |
| **Chromium** | 11.5 | | 10.0 | 115 | 11.1 | | 10.0 | 111 | | | | |
| **Cobalt** | 12.0 | | 10.0 | 120 | 11.5 | | 10.0 | 115 | | | | |
| **Copper** | 16.4 | | 15.0 | 109 | 15.8 | | 15.0 | 105 | | | | |
| **Iron** | | | | | 113 | | 100 | 113 | | | | |
| **Lead** | 10.5 | | 9.00 | 116 | 9.47 | | 9.00 | 105 | | | | |
| **Magnesium** | 243 | | 200 | 122 | 230 | | 200 | 115 | | | | |
| **Manganese** | 12.3 | | 10.0 | 123 | 11.3 | | 10.0 | 113 | | | | |
| **Molybdenum** | 20.8 | | 20.0 | 104 | 20.1 | | 20.0 | 100 | | | | |
| **Nickel** | 45.7 | | 40.0 | 114 | 43.4 | | 40.0 | 109 | | | | |
| **Potassium** | 3370 | | 3000 | 112 | 3210 | | 3000 | 107 | | | | |
| **Selenium** | 14.2 | J | 15.0 | 95 | 12.7 | J | 15.0 | 85 | | | | |
| **Silver** | 11.3 | | 10.0 | 113 | 10.3 | | 10.0 | 103 | | | | |
| **Thallium** | 15.0 | | 15.0 | 100 | 14.0 | J | 15.0 | 93 | | | | |
| **Vanadium** | 11.0 | | 10.0 | 110 | 10.4 | | 10.0 | 104 | | | | |
| *Sodium* | | | | | 1230 | | 1000 | 123 | | | | |
| *Zinc* | | | | | 26.0 | | 20.0 | 130 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111 Concentration Units: ug/L

CCV Source: ICP CCVH_00263

| Analyte | ICVH 280-174753/6 05/16/2013 10:44 | | | | CCVH 280-174753/85 05/16/2013 13:55 | | | | CCVH 280-174753/97 05/16/2013 14:24 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Iron** | 78300 | | 80000 | 98 | 50400 | | 50000 | 101 | 48300 | | 50000 | 97 |
| **Sodium** | 41200 | | 40000 | 103 | 264000 | | 250000 | 106 | 251000 | | 250000 | 100 |
| *Aluminum* | 39200 | | 40000 | 98 | 51700 | | 50000 | 103 | 49400 | | 50000 | 99 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111  Concentration Units: ug/L

CCV Source: ICP CCVH_00263

| Analyte | CCVH 280-174753/108 05/16/2013 14:50 | | | | CCVH 280-174753/119 05/16/2013 15:17 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Iron** | 49000 | | 50000 | 98 | 48500 | | 50000 | 97 | | | | |
| **Sodium** | 254000 | | 250000 | 102 | 254000 | | 250000 | 102 | | | | |
| *Aluminum* | 49700 | | 50000 | 99 | 49500 | | 50000 | 99 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089  Concentration Units: ug/L

CCV Source: ICP CCVL_00311

| Analyte | ICV 280-174753/7 05/16/2013 10:46 | | | | CCV 280-174753/86 05/16/2013 13:57 | | | | CCV 280-174753/98 05/16/2013 14:26 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Calcium** | 1980 | | 2000 | 99 | 5010 | | 5000 | 100 | 4890 | | 5000 | 98 |
| **Iron** | 251 | | 250 | 100 | 2450 | | 2500 | 98 | 2350 | | 2500 | 94 |
| **Sodium** | 1960 | | 2000 | 98 | 5060 | | 5000 | 101 | 4770 | | 5000 | 95 |
| **Zinc** | 242 | | 250 | 97 | 496 | | 500 | 99 | 485 | | 500 | 97 |
| *Aluminum* | 248 | | 250 | 99 | 520 | | 500 | 104 | 501 | | 500 | 100 |
| *Antimony* | 248 | | 250 | 99 | 1030 | | 1000 | 103 | 1000 | | 1000 | 100 |
| *Arsenic* | 239 | | 250 | 96 | 991 | | 1000 | 99 | 966 | | 1000 | 97 |
| *Barium* | 248 | | 250 | 99 | 507 | | 500 | 101 | 493 | | 500 | 99 |
| *Beryllium* | 236 | | 250 | 94 | 486 | | 500 | 97 | 470 | | 500 | 94 |
| *Boron* | 251 | | 250 | 100 | 522 | | 500 | 104 | 511 | | 500 | 102 |
| *Cadmium* | 250 | | 250 | 100 | 509 | | 500 | 102 | 500 | | 500 | 100 |
| *Chromium* | 247 | | 250 | 99 | 499 | | 500 | 100 | 484 | | 500 | 97 |
| *Cobalt* | 249 | | 250 | 100 | 516 | | 500 | 103 | 506 | | 500 | 101 |
| *Copper* | 241 | | 250 | 96 | 498 | | 500 | 100 | 483 | | 500 | 97 |
| *Lead* | 251 | | 250 | 100 | 1020 | | 1000 | 102 | 1010 | | 1000 | 101 |
| *Magnesium* | 9710 | | 10000 | 97 | 19900 | | 20000 | 99 | 19400 | | 20000 | 97 |
| *Manganese* | 245 | | 250 | 98 | 508 | | 500 | 102 | 496 | | 500 | 99 |
| *Molybdenum* | 243 | | 250 | 97 | 492 | | 500 | 98 | 474 | | 500 | 95 |
| *Nickel* | 248 | | 250 | 99 | 504 | | 500 | 101 | 494 | | 500 | 99 |
| *Potassium* | 19800 | | 20000 | 99 | 51500 | | 50000 | 103 | 50000 | | 50000 | 100 |
| *Selenium* | 498 | | 500 | 100 | 1030 | | 1000 | 103 | 1020 | | 1000 | 102 |
| *Silver* | 251 | | 250 | 100 | 521 | | 500 | 104 | 510 | | 500 | 102 |
| *Thallium* | 498 | | 500 | 100 | 1010 | | 1000 | 101 | 972 | | 1000 | 97 |
| *Vanadium* | 239 | | 250 | 96 | 495 | | 500 | 99 | 479 | | 500 | 96 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089 Concentration Units: ug/L

CCV Source: ICP CCVL_00311

| Analyte | CCV 280-174753/109 05/16/2013 14:52 | | | | CCV 280-174753/120 05/16/2013 15:19 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Calcium** | 4910 | | 5000 | 98 | 4870 | | 5000 | 97 | | | | |
| **Iron** | 2360 | | 2500 | 94 | 2330 | | 2500 | 93 | | | | |
| **Sodium** | 4790 | | 5000 | 96 | 4720 | | 5000 | 94 | | | | |
| **Zinc** | 495 | | 500 | 99 | 487 | | 500 | 97 | | | | |
| *Aluminum* | 517 | | 500 | 103 | 498 | | 500 | 100 | | | | |
| *Antimony* | 1000 | | 1000 | 100 | 990 | | 1000 | 99 | | | | |
| *Arsenic* | 977 | | 1000 | 98 | 963 | | 1000 | 96 | | | | |
| *Barium* | 497 | | 500 | 99 | 495 | | 500 | 99 | | | | |
| *Beryllium* | 471 | | 500 | 94 | 468 | | 500 | 94 | | | | |
| *Boron* | 512 | | 500 | 102 | 507 | | 500 | 101 | | | | |
| *Cadmium* | 500 | | 500 | 100 | 496 | | 500 | 99 | | | | |
| *Chromium* | 487 | | 500 | 97 | 483 | | 500 | 97 | | | | |
| *Cobalt* | 512 | | 500 | 102 | 507 | | 500 | 101 | | | | |
| *Copper* | 487 | | 500 | 97 | 481 | | 500 | 96 | | | | |
| *Lead* | 1010 | | 1000 | 101 | 1000 | | 1000 | 100 | | | | |
| *Magnesium* | 19700 | | 20000 | 99 | 19400 | | 20000 | 97 | | | | |
| *Manganese* | 502 | | 500 | 100 | 495 | | 500 | 99 | | | | |
| *Molybdenum* | 478 | | 500 | 96 | 475 | | 500 | 95 | | | | |
| *Nickel* | 497 | | 500 | 99 | 493 | | 500 | 99 | | | | |
| *Potassium* | 50400 | | 50000 | 101 | 50400 | | 50000 | 101 | | | | |
| *Selenium* | 1020 | | 1000 | 102 | 1010 | | 1000 | 101 | | | | |
| *Silver* | 512 | | 500 | 102 | 510 | | 500 | 102 | | | | |
| *Thallium* | 975 | | 1000 | 97 | 969 | | 1000 | 97 | | | | |
| *Vanadium* | 488 | | 500 | 98 | 478 | | 500 | 96 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00881  Concentration Units: ug/L

CCV Source: ICP LLCCV_00881

| Analyte | ICVL 280-174753/8 05/16/2013 10:49 | | | | CCVL 280-174753/88 05/16/2013 14:02 | | | | CCVL 280-174753/100 05/16/2013 14:31 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Calcium** | 203 | | 200 | 101 | 207 | | 200 | 103 | 195 | J | 200 | 97 |
| **Iron** | 99.6 | J | 100 | 100 | 98.8 | J | 100 | 99 | 90.0 | J | 100 | 90 |
| **Sodium** | 1000 | | 1000 | 100 | 1050 | | 1000 | 105 | 946 | J | 1000 | 95 |
| **Zinc** | 22.3 | | 20.0 | 112 | 23.0 | | 20.0 | 115 | 22.6 | | 20.0 | 113 |
| *Aluminum* | 100 | | 100 | 100 | 106 | | 100 | 106 | 103 | | 100 | 103 |
| *Antimony* | 9.16 | J | 10.0 | 92 | 9.32 | J | 10.0 | 93 | 9.88 | J | 10.0 | 99 |
| *Arsenic* | 17.8 | | 15.0 | 119 | 19.2 | | 15.0 | 128 | 15.5 | | 15.0 | 103 |
| *Barium* | 9.90 | J | 10.0 | 99 | 10.3 | | 10.0 | 103 | 10.3 | | 10.0 | 103 |
| *Beryllium* | 0.860 | J | 1.00 | 86 | 0.980 | J | 1.00 | 98 | 0.890 | J | 1.00 | 89 |
| *Boron* | 99.4 | J | 100 | 99 | 111 | | 100 | 111 | 103 | | 100 | 103 |
| *Cadmium* | 5.05 | | 5.00 | 101 | 5.29 | | 5.00 | 106 | 5.30 | | 5.00 | 106 |
| *Chromium* | 10.2 | | 10.0 | 102 | 10.6 | | 10.0 | 106 | 10.1 | | 10.0 | 101 |
| *Cobalt* | 10.5 | | 10.0 | 105 | 11.3 | | 10.0 | 113 | 10.5 | | 10.0 | 105 |
| *Copper* | 14.4 | J | 15.0 | 96 | 13.8 | J | 15.0 | 92 | 13.4 | J | 15.0 | 89 |
| *Lead* | 9.56 | | 9.00 | 106 | 10.0 | | 9.00 | 111 | 10.3 | | 9.00 | 114 |
| *Magnesium* | 205 | | 200 | 102 | 214 | | 200 | 107 | 205 | | 200 | 103 |
| *Manganese* | 10.0 | | 10.0 | 100 | 10.5 | | 10.0 | 105 | 10.1 | | 10.0 | 101 |
| *Molybdenum* | 18.9 | J | 20.0 | 94 | 19.5 | J | 20.0 | 98 | 18.7 | J | 20.0 | 93 |
| *Nickel* | 40.6 | | 40.0 | 101 | 42.4 | | 40.0 | 106 | 40.8 | | 40.0 | 102 |
| *Potassium* | 3040 | | 3000 | 101 | 3210 | | 3000 | 107 | 3120 | | 3000 | 104 |
| *Selenium* | 16.2 | | 15.0 | 108 | 16.7 | | 15.0 | 111 | 18.8 | | 15.0 | 125 |
| *Silver* | 11.1 | | 10.0 | 111 | 12.7 | | 10.0 | 127 | 12.1 | | 10.0 | 121 |
| *Thallium* | 12.9 | J | 15.0 | 86 | 14.6 | J | 15.0 | 97 | 13.3 | J | 15.0 | 89 |
| *Vanadium* | 8.68 | J | 10.0 | 87 | 8.97 | J | 10.0 | 90 | 9.21 | J | 10.0 | 92 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00881 Concentration Units: ug/L

CCV Source: ICP LLCCV_00881

| Analyte | CCVL 280-174753/111 05/16/2013 14:57 | | | | CCVL 280-174753/122 05/16/2013 15:24 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Calcium** | 192 | J | 200 | 96 | 197 | J | 200 | 99 | | | | |
| **Iron** | 88.3 | J | 100 | 88 | 96.7 | J | 100 | 97 | | | | |
| **Sodium** | 906 | J | 1000 | 91 | 881 | J | 1000 | 88 | | | | |
| **Zinc** | 22.7 | | 20.0 | 114 | 23.2 | | 20.0 | 116 | | | | |
| *Aluminum* | 103 | | 100 | 103 | 103 | | 100 | 103 | | | | |
| *Antimony* | 7.05 | J | 10.0 | 71 | 9.44 | J | 10.0 | 94 | | | | |
| *Arsenic* | 15.2 | | 15.0 | 101 | 15.3 | | 15.0 | 102 | | | | |
| *Barium* | 9.95 | J | 10.0 | 100 | 9.86 | J | 10.0 | 99 | | | | |
| *Beryllium* | 0.930 | J | 1.00 | 93 | 0.880 | J | 1.00 | 88 | | | | |
| *Boron* | 102 | | 100 | 102 | 102 | | 100 | 102 | | | | |
| *Cadmium* | 5.11 | | 5.00 | 102 | 5.25 | | 5.00 | 105 | | | | |
| *Chromium* | 9.96 | J | 10.0 | 100 | 9.98 | J | 10.0 | 100 | | | | |
| *Cobalt* | 10.5 | | 10.0 | 105 | 10.6 | | 10.0 | 106 | | | | |
| *Copper* | 13.5 | J | 15.0 | 90 | 14.0 | J | 15.0 | 93 | | | | |
| *Lead* | 10.3 | | 9.00 | 114 | 11.1 | | 9.00 | 123 | | | | |
| *Magnesium* | 208 | | 200 | 104 | 209 | | 200 | 104 | | | | |
| *Manganese* | 10.2 | | 10.0 | 102 | 10.1 | | 10.0 | 101 | | | | |
| *Molybdenum* | 18.6 | J | 20.0 | 93 | 18.5 | J | 20.0 | 92 | | | | |
| *Nickel* | 40.2 | | 40.0 | 100 | 40.6 | | 40.0 | 101 | | | | |
| *Potassium* | 3120 | | 3000 | 104 | 3180 | | 3000 | 106 | | | | |
| *Selenium* | 14.4 | J | 15.0 | 96 | 18.7 | | 15.0 | 125 | | | | |
| *Silver* | 11.5 | | 10.0 | 115 | 11.6 | | 10.0 | 116 | | | | |
| *Thallium* | 14.8 | J | 15.0 | 99 | 12.6 | J | 15.0 | 84 | | | | |
| *Vanadium* | 8.68 | J | 10.0 | 87 | 8.66 | J | 10.0 | 87 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111 Concentration Units: ug/L

CCV Source: ICP CCVH_00263

| Analyte | ICVH 280-174937/6 05/17/2013 09:48 | | | | CCVH 280-174937/72 05/17/2013 12:37 | | | | CCVH 280-174937/84 05/17/2013 13:05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Sodium** | 40300 | | 40000 | 101 | 253000 | | 250000 | 101 | 254000 | | 250000 | 102 |
| *Aluminum* | 39600 | | 40000 | 99 | 49600 | | 50000 | 99 | 50000 | | 50000 | 100 |
| *Iron* | 78600 | | 80000 | 98 | 49300 | | 50000 | 99 | 49400 | | 50000 | 99 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089  Concentration Units: ug/L

CCV Source: ICP CCVL_00311

| Analyte | ICV 280-174937/7 05/17/2013 09:51 | | | | CCV 280-174937/73 05/17/2013 12:39 | | | | CCV 280-174937/85 05/17/2013 13:08 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Sodium** | 1940 | | 2000 | 97 | 4580 | | 5000 | 92 | 4660 | | 5000 | 93 |
| *Aluminum* | 242 | | 250 | 97 | 485 | | 500 | 97 | 489 | | 500 | 98 |
| *Antimony* | 248 | | 250 | 99 | 985 | | 1000 | 99 | 981 | | 1000 | 98 |
| *Arsenic* | 237 | | 250 | 95 | 964 | | 1000 | 96 | 956 | | 1000 | 96 |
| *Barium* | 246 | | 250 | 98 | 485 | | 500 | 97 | 486 | | 500 | 97 |
| *Beryllium* | 234 | | 250 | 94 | 468 | | 500 | 94 | 464 | | 500 | 93 |
| *Boron* | 248 | | 250 | 99 | 501 | | 500 | 100 | 501 | | 500 | 100 |
| *Cadmium* | 246 | | 250 | 98 | 490 | | 500 | 98 | 489 | | 500 | 98 |
| *Calcium* | 1970 | | 2000 | 99 | 4810 | | 5000 | 96 | 4820 | | 5000 | 96 |
| *Chromium* | 243 | | 250 | 97 | 483 | | 500 | 97 | 479 | | 500 | 96 |
| *Cobalt* | 247 | | 250 | 99 | 501 | | 500 | 100 | 498 | | 500 | 100 |
| *Copper* | 238 | | 250 | 95 | 481 | | 500 | 96 | 474 | | 500 | 95 |
| *Iron* | 242 | | 250 | 97 | 2360 | | 2500 | 95 | 2360 | | 2500 | 95 |
| *Lead* | 244 | | 250 | 98 | 988 | | 1000 | 99 | 981 | | 1000 | 98 |
| *Magnesium* | 9710 | | 10000 | 97 | 19300 | | 20000 | 97 | 19100 | | 20000 | 96 |
| *Manganese* | 246 | | 250 | 98 | 490 | | 500 | 98 | 488 | | 500 | 98 |
| *Molybdenum* | 239 | | 250 | 95 | 478 | | 500 | 96 | 470 | | 500 | 94 |
| *Nickel* | 245 | | 250 | 98 | 493 | | 500 | 99 | 487 | | 500 | 97 |
| *Potassium* | 19700 | | 20000 | 99 | 48900 | | 50000 | 98 | 49100 | | 50000 | 98 |
| *Selenium* | 490 | | 500 | 98 | 1010 | | 1000 | 101 | 1000 | | 1000 | 100 |
| *Silver* | 251 | | 250 | 100 | 497 | | 500 | 99 | 498 | | 500 | 100 |
| *Thallium* | 488 | | 500 | 98 | 968 | | 1000 | 97 | 955 | | 1000 | 96 |
| *Vanadium* | 240 | | 250 | 96 | 481 | | 500 | 96 | 476 | | 500 | 95 |
| *Zinc* | 246 | | 250 | 98 | 485 | | 500 | 97 | 482 | | 500 | 96 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00882  Concentration Units: ug/L

CCV Source: ICP LLCCV_00882

| Analyte | ICVL 280-174937/8 05/17/2013 09:54 | | | | CCVL 280-174937/75 05/17/2013 12:44 | | | | CCVL 280-174937/87 05/17/2013 13:12 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Sodium** | 976 | J | 1000 | 98 | 818 | J | 1000 | 82 | 1070 | | 1000 | 107 |
| *Aluminum* | 98.0 | J | 100 | 98 | 99.3 | J | 100 | 99 | | | | |
| *Antimony* | 12.9 | | 10.0 | 129 | 11.6 | | 10.0 | 116 | 12.7 | | 10.0 | 127 |
| *Arsenic* | 14.2 | J | 15.0 | 94 | 14.8 | J | 15.0 | 99 | 14.8 | J | 15.0 | 98 |
| *Barium* | 9.42 | J | 10.0 | 94 | 9.12 | J | 10.0 | 91 | 10.1 | | 10.0 | 101 |
| *Beryllium* | 1.01 | | 1.00 | 101 | 0.880 | J | 1.00 | 88 | 0.890 | J | 1.00 | 89 |
| *Boron* | 102 | | 100 | 102 | 102 | | 100 | 102 | 104 | | 100 | 104 |
| *Cadmium* | 4.84 | J | 5.00 | 97 | 4.86 | J | 5.00 | 97 | 4.93 | J | 5.00 | 99 |
| *Calcium* | 197 | J | 200 | 98 | 197 | J | 200 | 99 | | | | |
| *Chromium* | 10.1 | | 10.0 | 101 | 10.0 | | 10.0 | 100 | 10.3 | | 10.0 | 103 |
| *Cobalt* | 10.4 | | 10.0 | 104 | 10.3 | | 10.0 | 103 | 11.0 | | 10.0 | 110 |
| *Copper* | 13.7 | J | 15.0 | 92 | 14.4 | J | 15.0 | 96 | 16.1 | | 15.0 | 107 |
| *Iron* | 99.4 | J | 100 | 99 | 98.7 | J | 100 | 99 | | | | |
| *Lead* | 9.79 | | 9.00 | 109 | 9.49 | | 9.00 | 105 | 8.12 | J | 9.00 | 90 |
| *Magnesium* | 198 | J | 200 | 99 | 199 | J | 200 | 99 | | | | |
| *Manganese* | 9.99 | J | 10.0 | 100 | 10.0 | | 10.0 | 100 | 12.3 | | 10.0 | 123 |
| *Molybdenum* | 19.3 | J | 20.0 | 97 | 19.0 | J | 20.0 | 95 | 19.6 | J | 20.0 | 98 |
| *Nickel* | 40.6 | | 40.0 | 101 | 40.5 | | 40.0 | 101 | 41.2 | | 40.0 | 103 |
| *Potassium* | 2950 | J | 3000 | 98 | 2890 | J | 3000 | 96 | 3070 | | 3000 | 102 |
| *Selenium* | 17.2 | | 15.0 | 115 | 14.4 | J | 15.0 | 96 | 18.8 | | 15.0 | 125 |
| *Silver* | 10.8 | | 10.0 | 108 | 10.5 | | 10.0 | 105 | 11.4 | | 10.0 | 114 |
| *Thallium* | 15.5 | | 15.0 | 103 | 16.3 | | 15.0 | 109 | 17.6 | | 15.0 | 117 |
| *Vanadium* | 10.1 | | 10.0 | 101 | 10.9 | | 10.0 | 109 | 10.0 | | 10.0 | 100 |
| *Zinc* | 22.5 | | 20.0 | 112 | 22.7 | | 20.0 | 113 | 24.1 | | 20.0 | 120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111 Concentration Units: ug/L

CCV Source: ICP CCVH_00264

| Analyte | ICVH 280-175050/6 05/18/2013 09:05 | | | | CCVH 280-175050/23 05/18/2013 15:19 | | | | CCVH 280-175050/37 05/18/2013 15:52 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 39000 | | 40000 | 97 | 50700 | | 50000 | 101 | 50300 | | 50000 | 101 |
| *Iron* | 77600 | | 80000 | 97 | 49800 | | 50000 | 100 | 50000 | | 50000 | 100 |
| *Sodium* | 40600 | | 40000 | 101 | 260000 | | 250000 | 104 | 259000 | | 250000 | 104 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00883  Concentration Units: ug/L

CCV Source: ICP LLCCV_00883

| Analyte | ICVL 280-175050/8 05/18/2013 09:11 | | | | CCVL 280-175050/26 05/18/2013 15:26 | | | | CCVL 280-175050/40 05/18/2013 15:59 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 106 | | 100 | 106 | 106 | | 100 | 106 | 107 | | 100 | 107 |
| **Antimony** | 9.73 | J | 10.0 | 97 | 10.8 | | 10.0 | 108 | 10.4 | | 10.0 | 104 |
| **Arsenic** | 12.6 | J | 15.0 | 84 | 11.1 | J | 15.0 | 74 | 14.3 | J | 15.0 | 95 |
| **Barium** | 11.0 | | 10.0 | 110 | 10.7 | | 10.0 | 107 | 11.4 | | 10.0 | 114 |
| **Beryllium** | 1.12 | | 1.00 | 112 | 0.970 | J | 1.00 | 97 | 0.890 | J | 1.00 | 89 |
| **Cadmium** | 5.28 | | 5.00 | 106 | 5.42 | | 5.00 | 108 | 5.47 | | 5.00 | 109 |
| **Calcium** | 208 | | 200 | 104 | 209 | | 200 | 104 | 210 | | 200 | 105 |
| **Chromium** | 10.4 | | 10.0 | 104 | 10.5 | | 10.0 | 105 | 10.2 | | 10.0 | 102 |
| **Cobalt** | 10.3 | | 10.0 | 103 | 10.7 | | 10.0 | 107 | 10.5 | | 10.0 | 105 |
| **Copper** | 15.3 | | 15.0 | 102 | 15.9 | | 15.0 | 106 | 16.1 | | 15.0 | 107 |
| **Lead** | 10.4 | | 9.00 | 115 | 11.6 | | 9.00 | 128 | 10.0 | | 9.00 | 111 |
| **Magnesium** | 212 | | 200 | 106 | 212 | | 200 | 106 | 214 | | 200 | 107 |
| **Molybdenum** | 20.0 | | 20.0 | 100 | 20.6 | | 20.0 | 103 | 20.6 | | 20.0 | 103 |
| **Nickel** | 41.7 | | 40.0 | 104 | 42.3 | | 40.0 | 106 | 42.2 | | 40.0 | 106 |
| **Potassium** | 3240 | | 3000 | 108 | 3480 | | 3000 | 116 | 3510 | | 3000 | 117 |
| **Selenium** | 14.7 | J | 15.0 | 98 | 15.5 | | 15.0 | 103 | 16.4 | | 15.0 | 109 |
| **Silver** | 10.0 | | 10.0 | 100 | 10.2 | | 10.0 | 102 | 9.50 | J | 10.0 | 95 |
| **Thallium** | 16.1 | | 15.0 | 107 | 15.1 | | 15.0 | 101 | 15.2 | | 15.0 | 101 |
| **Vanadium** | 10.5 | | 10.0 | 105 | 10.3 | | 10.0 | 103 | 10.1 | | 10.0 | 101 |
| **Zinc** | 23.3 | | 20.0 | 117 | 23.3 | | 20.0 | 116 | 23.4 | | 20.0 | 117 |
| *Boron* | 102 | | 100 | 102 | 113 | | 100 | 113 | 108 | | 100 | 108 |
| *Iron* | 112 | | 100 | 112 | 104 | | 100 | 104 | 105 | | 100 | 105 |
| *Manganese* | 10.4 | | 10.0 | 104 | 10.4 | | 10.0 | 104 | 10.5 | | 10.0 | 105 |
| *Sodium* | 1210 | | 1000 | 121 | 1250 | | 1000 | 125 | 1200 | | 1000 | 120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089  Concentration Units: ug/L

CCV Source: ICP CCVL_00312

| Analyte | ICV 280-175050/12 05/18/2013 09:22 | | | | ICV 280-175050/13 05/18/2013 09:24 | | | | CCV 280-175050/24 05/18/2013 15:21 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 260 | | 250 | 104 | 273 | | 250 | 109 | 521 | | 500 | 104 |
| **Antimony** | 254 | | 250 | 102 | 252 | | 250 | 101 | 1020 | | 1000 | 102 |
| **Arsenic** | 242 | | 250 | 97 | 243 | | 250 | 97 | 1010 | | 1000 | 101 |
| **Barium** | 251 | | 250 | 100 | 255 | | 250 | 102 | 507 | | 500 | 101 |
| **Beryllium** | 242 | | 250 | 97 | 246 | | 250 | 99 | 502 | | 500 | 100 |
| **Cadmium** | 252 | | 250 | 101 | 251 | | 250 | 101 | 508 | | 500 | 102 |
| **Calcium** | 2040 | | 2000 | 102 | 2070 | | 2000 | 103 | 5200 | | 5000 | 104 |
| **Chromium** | 252 | | 250 | 101 | 252 | | 250 | 101 | 505 | | 500 | 101 |
| **Cobalt** | 253 | | 250 | 101 | 253 | | 250 | 101 | 511 | | 500 | 102 |
| **Copper** | 249 | | 250 | 100 | 246 | | 250 | 98 | 507 | | 500 | 101 |
| **Lead** | 254 | | 250 | 101 | 256 | | 250 | 102 | 1020 | | 1000 | 102 |
| **Magnesium** | 10200 | | 10000 | 102 | 10000 | | 10000 | 100 | 20200 | | 20000 | 101 |
| **Molybdenum** | 247 | | 250 | 99 | 249 | | 250 | 99 | 507 | | 500 | 101 |
| **Nickel** | 254 | | 250 | 102 | 254 | | 250 | 102 | 512 | | 500 | 102 |
| **Potassium** | 20500 | | 20000 | 103 | 20800 | | 20000 | 104 | 52200 | | 50000 | 104 |
| **Selenium** | 498 | | 500 | 100 | 497 | | 500 | 99 | 1010 | | 1000 | 101 |
| **Silver** | 259 | | 250 | 104 | 256 | | 250 | 102 | 506 | | 500 | 101 |
| **Thallium** | 507 | | 500 | 101 | 509 | | 500 | 102 | 1020 | | 1000 | 102 |
| **Vanadium** | 251 | | 250 | 100 | 248 | | 250 | 99 | 503 | | 500 | 101 |
| **Zinc** | 259 | | 250 | 104 | 256 | | 250 | 102 | 503 | | 500 | 101 |
| *Boron* | 251 | | 250 | 100 | 251 | | 250 | 100 | 524 | | 500 | 105 |
| *Iron* | 252 | | 250 | 101 | 257 | | 250 | 103 | 2570 | | 2500 | 103 |
| *Manganese* | 256 | | 250 | 102 | 252 | | 250 | 101 | 503 | | 500 | 101 |
| *Sodium* | 2050 | | 2000 | 102 | 2090 | | 2000 | 104 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089 Concentration Units: ug/L

CCV Source: ICP CCVL_00312

| Analyte | CCV 280-175050/38 05/18/2013 15:54 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 525 | | 500 | 105 | | | | | | | | |
| **Antimony** | 1050 | | 1000 | 105 | | | | | | | | |
| **Arsenic** | 1020 | | 1000 | 102 | | | | | | | | |
| **Barium** | 513 | | 500 | 103 | | | | | | | | |
| **Beryllium** | 506 | | 500 | 101 | | | | | | | | |
| **Cadmium** | 517 | | 500 | 103 | | | | | | | | |
| **Calcium** | 5160 | | 5000 | 103 | | | | | | | | |
| **Chromium** | 515 | | 500 | 103 | | | | | | | | |
| **Cobalt** | 521 | | 500 | 104 | | | | | | | | |
| **Copper** | 520 | | 500 | 104 | | | | | | | | |
| **Lead** | 1040 | | 1000 | 104 | | | | | | | | |
| **Magnesium** | 20800 | | 20000 | 104 | | | | | | | | |
| **Molybdenum** | 516 | | 500 | 103 | | | | | | | | |
| **Nickel** | 521 | | 500 | 104 | | | | | | | | |
| **Potassium** | 53100 | | 50000 | 106 | | | | | | | | |
| **Selenium** | 1030 | | 1000 | 103 | | | | | | | | |
| **Silver** | 522 | | 500 | 104 | | | | | | | | |
| **Thallium** | 1040 | | 1000 | 104 | | | | | | | | |
| **Vanadium** | 516 | | 500 | 103 | | | | | | | | |
| **Zinc** | 521 | | 500 | 104 | | | | | | | | |
| *Boron* | 523 | | 500 | 105 | | | | | | | | |
| *Iron* | 2590 | | 2500 | 104 | | | | | | | | |
| *Manganese* | 517 | | 500 | 103 | | | | | | | | |
| *Sodium* | 5360 | | 5000 | 107 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVH_00111  Concentration Units: ug/L

CCV Source: ICP CCVH_00264

| Analyte | ICVH 280-175407/6 05/21/2013 12:07 | | | | CCVH 280-175407/66 05/21/2013 14:45 | | | | CCVH 280-175407/80 05/21/2013 15:18 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Sodium** | 40900 | | 40000 | 102 | 251000 | | 250000 | 101 | 247000 | | 250000 | 99 |
| *Aluminum* | 39700 | | 40000 | 99 | 50400 | | 50000 | 101 | 49800 | | 50000 | 100 |
| *Iron* | 79400 | | 80000 | 99 | 50200 | | 50000 | 100 | 49900 | | 50000 | 100 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

ICV Source: ICP ICVL_00089 Concentration Units: ug/L

CCV Source: ICP CCVL_00312

| Analyte | ICV 280-175407/7 05/21/2013 12:11 | | | | CCV 280-175407/67 05/21/2013 14:47 | | | | CCV 280-175407/81 05/21/2013 15:20 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Boron** | 245 | | 250 | 98 | 477 | | 500 | 95 | 486 | | 500 | 97 |
| **Manganese** | 251 | | 250 | 100 | 493 | | 500 | 99 | 505 | | 500 | 101 |
| **Sodium** | 2020 | | 2000 | 101 | 4770 | | 5000 | 95 | 4940 | | 5000 | 99 |
| *Aluminum* | 255 | | 250 | 102 | 489 | | 500 | 98 | 495 | | 500 | 99 |
| *Antimony* | 254 | | 250 | 101 | 993 | | 1000 | 99 | 1010 | | 1000 | 101 |
| *Arsenic* | 241 | | 250 | 96 | 960 | | 1000 | 96 | 983 | | 1000 | 98 |
| *Barium* | 248 | | 250 | 99 | 485 | | 500 | 97 | 502 | | 500 | 100 |
| *Beryllium* | 236 | | 250 | 94 | 461 | | 500 | 92 | 478 | | 500 | 96 |
| *Cadmium* | 252 | | 250 | 101 | 499 | | 500 | 100 | 508 | | 500 | 102 |
| *Calcium* | 2020 | | 2000 | 101 | 4870 | | 5000 | 97 | 5010 | | 5000 | 100 |
| *Chromium* | 251 | | 250 | 100 | 486 | | 500 | 97 | 496 | | 500 | 99 |
| *Cobalt* | 254 | | 250 | 102 | 503 | | 500 | 101 | 514 | | 500 | 103 |
| *Copper* | 244 | | 250 | 98 | 480 | | 500 | 96 | 490 | | 500 | 98 |
| *Iron* | 250 | | 250 | 100 | 2410 | | 2500 | 96 | 2470 | | 2500 | 99 |
| *Lead* | 256 | | 250 | 102 | 1010 | | 1000 | 101 | 1030 | | 1000 | 103 |
| *Magnesium* | 9870 | | 10000 | 99 | 19400 | | 20000 | 97 | 19800 | | 20000 | 99 |
| *Molybdenum* | 249 | | 250 | 100 | 485 | | 500 | 97 | 493 | | 500 | 99 |
| *Nickel* | 253 | | 250 | 101 | 494 | | 500 | 99 | 503 | | 500 | 101 |
| *Potassium* | 20100 | | 20000 | 100 | 48800 | | 50000 | 98 | 50200 | | 50000 | 100 |
| *Selenium* | 486 | | 500 | 97 | 951 | | 1000 | 95 | 968 | | 1000 | 97 |
| *Silver* | 256 | | 250 | 103 | 507 | | 500 | 101 | 518 | | 500 | 104 |
| *Thallium* | 518 | | 500 | 104 | 1010 | | 1000 | 101 | 1020 | | 1000 | 102 |
| *Vanadium* | 244 | | 250 | 98 | 479 | | 500 | 96 | 490 | | 500 | 98 |
| *Zinc* | 252 | | 250 | 101 | 493 | | 500 | 99 | 504 | | 500 | 101 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

ICV Source: ICP LLCCV_00885  Concentration Units: ug/L

CCV Source: ICP LLCCV_00885

| Analyte | ICVL 280-175407/8 05/21/2013 12:13 | | | | CCVL 280-175407/69 05/21/2013 14:52 | | | | CCVL 280-175407/83 05/21/2013 15:25 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Boron** | 99.5 | J | 100 | 100 | 96.2 | J | 100 | 96 | 95.5 | J | 100 | 95 |
| **Manganese** | 10.8 | | 10.0 | 108 | 10.5 | | 10.0 | 105 | 10.5 | | 10.0 | 105 |
| **Sodium** | 1090 | | 1000 | 109 | 988 | J | 1000 | 99 | 1000 | | 1000 | 100 |
| *Aluminum* | 105 | | 100 | 105 | 102 | | 100 | 102 | 101 | | 100 | 101 |
| *Antimony* | 10.7 | | 10.0 | 107 | 11.8 | | 10.0 | 118 | 12.3 | | 10.0 | 123 |
| *Arsenic* | 15.5 | | 15.0 | 103 | 15.3 | | 15.0 | 102 | 16.6 | | 15.0 | 110 |
| *Barium* | 10.1 | | 10.0 | 101 | 10.1 | | 10.0 | 101 | 10.4 | | 10.0 | 104 |
| *Beryllium* | 0.980 | J | 1.00 | 98 | 0.890 | J | 1.00 | 89 | 0.910 | J | 1.00 | 91 |
| *Cadmium* | 5.44 | | 5.00 | 109 | 5.31 | | 5.00 | 106 | 5.40 | | 5.00 | 108 |
| *Calcium* | 213 | | 200 | 107 | 205 | | 200 | 102 | 211 | | 200 | 105 |
| *Chromium* | 10.5 | | 10.0 | 105 | 10.1 | | 10.0 | 101 | 10.1 | | 10.0 | 101 |
| *Cobalt* | 10.9 | | 10.0 | 109 | 10.7 | | 10.0 | 107 | 10.7 | | 10.0 | 107 |
| *Copper* | 15.2 | | 15.0 | 101 | 14.2 | J | 15.0 | 95 | 14.3 | J | 15.0 | 95 |
| *Iron* | 107 | | 100 | 107 | 106 | | 100 | 106 | 104 | | 100 | 104 |
| *Lead* | 10.7 | | 9.00 | 119 | 10.7 | | 9.00 | 119 | 9.12 | | 9.00 | 101 |
| *Magnesium* | 213 | | 200 | 106 | 206 | | 200 | 103 | 208 | | 200 | 104 |
| *Molybdenum* | 21.0 | | 20.0 | 105 | 20.2 | | 20.0 | 101 | 19.9 | J | 20.0 | 99 |
| *Nickel* | 42.1 | | 40.0 | 105 | 41.5 | | 40.0 | 104 | 41.2 | | 40.0 | 103 |
| *Potassium* | 3150 | | 3000 | 105 | 3090 | | 3000 | 103 | 3080 | | 3000 | 103 |
| *Selenium* | 15.5 | | 15.0 | 103 | 12.2 | J | 15.0 | 81 | 13.8 | J | 15.0 | 92 |
| *Silver* | 10.2 | | 10.0 | 102 | 10.9 | | 10.0 | 109 | 10.4 | | 10.0 | 104 |
| *Thallium* | 17.0 | | 15.0 | 113 | 16.1 | | 15.0 | 107 | 17.1 | | 15.0 | 114 |
| *Vanadium* | 10.6 | | 10.0 | 106 | 9.62 | J | 10.0 | 96 | 9.67 | J | 10.0 | 97 |
| *Zinc* | 23.9 | | 20.0 | 119 | 23.1 | | 20.0 | 116 | 23.3 | | 20.0 | 116 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Method: 6010C Instrument ID: MT_025

Lab Sample ID: CRI 280-175815/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00905

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 108 | | 108 | 80-120 |
| Antimony | 10.0 | 10.1 | | 101 | 80-120 |
| Arsenic | 10.0 | 10.8 | J | 108 | 80-120 |
| Barium | 5.00 | 4.80 | J | 96 | 80-120 |
| Beryllium | 1.00 | 1.00 | | 100 | 80-120 |
| Boron | 100 | 104 | | 104 | 50-150 |
| Cadmium | 5.00 | 5.27 | | 105 | 80-120 |
| Calcium | 200 | 208 | | 104 | 80-120 |
| Chromium | 10.0 | 10.6 | | 106 | 80-120 |
| Cobalt | 5.00 | 5.28 | | 106 | 80-120 |
| Copper | 10.0 | 10.6 | J | 106 | 80-120 |
| Iron | 30.0 | 29.3 | J | 98 | 80-120 |
| Lead | 3.00 | 2.74 | J | 91 | 80-120 |
| Magnesium | 200 | 211 | | 105 | 80-120 |
| Manganese | 3.00 | 3.16 | J | 105 | 80-120 |
| Molybdenum | 10.0 | 10.1 | J | 101 | 80-120 |
| Nickel | 10.0 | 11.0 | J | 110 | 80-120 |
| Potassium | 1000 | 1030 | J | 103 | 80-120 |
| Silver | 10.0 | 10.1 | | 101 | 80-120 |
| Sodium | 1000 | 1050 | | 105 | 80-120 |
| Thallium | 10.0 | 11.1 | J | 111 | 80-120 |
| Vanadium | 10.0 | 9.22 | J | 92 | 80-120 |

Lab Sample ID: CRI 280-175815/14 Concentration Units: ug/L

CRQL Check Standard Source: ALT Se_00046

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Selenium | 20.0 | 20.0 | | 100 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Method: 6010C Instrument ID: MT_026

Lab Sample ID: CRI 280-174408/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00897

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 99.2 | J | 99 | 80-120 |
| Antimony | 10.0 | 10.8 | | 108 | 80-120 |
| Barium | 5.00 | 5.21 | J | 104 | 80-120 |
| Beryllium | 1.00 | 0.900 | J | 90 | 80-120 |
| Boron | 100 | 94.4 | J | 94 | 80-120 |
| Cadmium | 5.00 | 5.13 | | 103 | 80-120 |
| Calcium | 200 | 196 | J | 98 | 80-120 |
| Chromium | 10.0 | 9.88 | J | 99 | 80-120 |
| Cobalt | 5.00 | 5.51 | | 110 | 80-120 |
| Copper | 10.0 | 10.3 | J | 103 | 80-120 |
| Iron | 30.0 | 35.2 | J | 117 | 80-120 |
| Lead | 3.00 | 2.66 | J | 89 | 80-120 |
| Magnesium | 200 | 209 | | 104 | 80-120 |
| Manganese | 3.00 | 3.17 | J | 106 | 80-120 |
| Molybdenum | 10.0 | 9.88 | J | 99 | 80-120 |
| Nickel | 10.0 | 10.3 | J | 103 | 80-120 |
| Potassium | 1000 | 1050 | J | 105 | 80-120 |
| Silver | 10.0 | 10.4 | | 104 | 80-120 |
| Sodium | 1000 | 1010 | | 101 | 80-120 |
| Thallium | 10.0 | 9.70 | J | 97 | 80-120 |
| Vanadium | 10.0 | 9.52 | J | 95 | 80-120 |

Lab Sample ID: CRI 280-174408/13 Concentration Units: ug/L

CRQL Check Standard Source: Alt As Se Zn_00002

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Arsenic | 15.0 | 13.9 | J | 93 | 80-120 |
| Selenium | 15.0 | 15.5 | | 103 | 80-120 |
| Zinc | 20.0 | 20.0 | | 100 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Method: 6010C Instrument ID: MT_026

Lab Sample ID: CRI 280-174753/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00899

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 101 | | 101 | 80-120 |
| Arsenic | 10.0 | 11.6 | J | 116 | 80-120 |
| Barium | 5.00 | 4.54 | J | 91 | 80-120 |
| Beryllium | 1.00 | 0.930 | J | 93 | 80-120 |
| Boron | 100 | 102 | | 102 | 80-120 |
| Cadmium | 5.00 | 5.11 | | 102 | 80-120 |
| Calcium | 200 | 202 | | 101 | 80-120 |
| Chromium | 10.0 | 10.2 | | 102 | 80-120 |
| Cobalt | 5.00 | 5.64 | | 113 | 80-120 |
| Copper | 10.0 | 9.36 | J | 94 | 80-120 |
| Iron | 30.0 | 27.3 | J | 91 | 80-120 |
| Magnesium | 200 | 204 | | 102 | 80-120 |
| Manganese | 3.00 | 3.00 | J | 100 | 80-120 |
| Molybdenum | 10.0 | 9.16 | J | 92 | 80-120 |
| Nickel | 10.0 | 10.5 | J | 105 | 80-120 |
| Potassium | 1000 | 962 | J | 96 | 80-120 |
| Selenium | 10.0 | 10.8 | J | 108 | 80-120 |
| Silver | 10.0 | 11.2 | | 112 | 80-120 |
| Sodium | 1000 | 936 | J | 94 | 80-120 |
| Thallium | 10.0 | 8.10 | J | 81 | 80-120 |
| Vanadium | 10.0 | 8.52 | J | 85 | 80-120 |

Lab Sample ID: CRI 280-174753/20 Concentration Units: ug/L

CRQL Check Standard Source: Alt Pb Sb Zn_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 20.0 | 18.0 | | 90 | 80-120 |
| Lead | 9.00 | 9.69 | | 108 | 80-120 |
| Zinc | 20.0 | 22.0 | | 110 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Method: 6010C Instrument ID: MT_026

Lab Sample ID: CRI 280-174937/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00900

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 101 | | 101 | 80-120 |
| Antimony | 10.0 | 12.0 | | 120 | 80-120 |
| Barium | 5.00 | 4.51 | J | 90 | 80-120 |
| Beryllium | 1.00 | 0.890 | J | 89 | 80-120 |
| Boron | 100 | 101 | | 101 | 80-120 |
| Cadmium | 5.00 | 5.06 | | 101 | 80-120 |
| Calcium | 200 | 196 | J | 98 | 80-120 |
| Chromium | 10.0 | 9.89 | J | 99 | 80-120 |
| Cobalt | 5.00 | 5.30 | | 106 | 80-120 |
| Copper | 10.0 | 9.56 | J | 96 | 80-120 |
| Iron | 30.0 | 28.7 | J | 96 | 80-120 |
| Magnesium | 200 | 201 | | 100 | 80-120 |
| Manganese | 3.00 | 3.15 | J | 105 | 80-120 |
| Molybdenum | 10.0 | 9.98 | J | 100 | 80-120 |
| Nickel | 10.0 | 10.5 | J | 105 | 80-120 |
| Potassium | 1000 | 1020 | J | 102 | 80-120 |
| Silver | 10.0 | 10.6 | | 106 | 80-120 |
| Sodium | 1000 | 943 | J | 94 | 80-120 |
| Thallium | 10.0 | 10.7 | J | 107 | 80-120 |
| Vanadium | 10.0 | 10.4 | | 104 | 80-120 |

Lab Sample ID: CRI 280-174937/13 Concentration Units: ug/L

CRQL Check Standard Source: Alt CRI_00038

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Arsenic | 20.0 | 17.2 | | 86 | 80-120 |
| Lead | 9.00 | 10.5 | | 116 | 80-120 |
| Selenium | 15.0 | 17.9 | | 119 | 80-120 |
| Zinc | 20.0 | 19.4 | J | 97 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Method: 6010C Instrument ID: MT_026

Lab Sample ID: CRI 280-175050/14 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00901

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 110 | | 110 | 80-120 |
| Antimony | 10.0 | 10.1 | | 101 | 80-120 |
| Arsenic | 10.0 | 10.5 | J | 105 | 80-120 |
| Barium | 5.00 | 4.72 | J | 94 | 80-120 |
| Beryllium | 1.00 | 1.14 | | 114 | 80-120 |
| Boron | 100 | 103 | | 103 | 50-150 |
| Cadmium | 5.00 | 5.28 | | 106 | 80-120 |
| Calcium | 200 | 208 | | 104 | 80-120 |
| Chromium | 10.0 | 10.4 | | 104 | 80-120 |
| Cobalt | 5.00 | 5.17 | | 103 | 80-120 |
| Copper | 10.0 | 10.7 | J | 107 | 80-120 |
| Magnesium | 200 | 217 | | 108 | 80-120 |
| Manganese | 3.00 | 3.27 | J | 109 | 80-120 |
| Molybdenum | 10.0 | 10.5 | J | 105 | 80-120 |
| Nickel | 10.0 | 10.6 | J | 106 | 80-120 |
| Potassium | 1000 | 1120 | J | 112 | 80-120 |
| Selenium | 10.0 | 10.2 | J | 102 | 80-120 |
| Silver | 10.0 | 10.4 | | 104 | 80-120 |
| Sodium | 1000 | 1100 | | 110 | 80-120 |
| Thallium | 10.0 | 10.9 | J | 109 | 80-120 |
| Vanadium | 10.0 | 10.3 | | 103 | 80-120 |

Lab Sample ID: CRI 280-175050/15 Concentration Units: ug/L

CRQL Check Standard Source: Alt Fe Pb Zn_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Iron | 60.0 | 55.9 | J | 93 | 80-120 |
| Lead | 9.00 | 10.4 | | 115 | 80-120 |
| Zinc | 20.0 | 20.0 | | 100 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Method: 6010C Instrument ID: MT_026

Lab Sample ID: CRI 280-175407/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00903

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 106 | | 106 | 80-120 |
| Antimony | 10.0 | 9.86 | J | 99 | 80-120 |
| Arsenic | 10.0 | 11.2 | J | 112 | 80-120 |
| Barium | 5.00 | 5.34 | J | 107 | 80-120 |
| Beryllium | 1.00 | 0.990 | J | 99 | 80-120 |
| Boron | 100 | 98.9 | J | 99 | 50-150 |
| Cadmium | 5.00 | 5.39 | | 108 | 80-120 |
| Calcium | 200 | 211 | | 106 | 80-120 |
| Chromium | 10.0 | 10.4 | | 104 | 80-120 |
| Cobalt | 5.00 | 5.48 | | 110 | 80-120 |
| Copper | 10.0 | 10.0 | J | 100 | 80-120 |
| Iron | 30.0 | 30.9 | J | 103 | 80-120 |
| Magnesium | 200 | 214 | | 107 | 80-120 |
| Manganese | 3.00 | 3.28 | J | 109 | 80-120 |
| Molybdenum | 10.0 | 10.4 | J | 104 | 80-120 |
| Nickel | 10.0 | 10.7 | J | 107 | 80-120 |
| Potassium | 1000 | 1050 | J | 105 | 80-120 |
| Selenium | 10.0 | 9.27 | J | 93 | 80-120 |
| Silver | 10.0 | 11.0 | | 110 | 80-120 |
| Sodium | 1000 | 1060 | | 106 | 80-120 |
| Vanadium | 10.0 | 9.86 | J | 99 | 80-120 |

Lab Sample ID: CRI 280-175407/13 Concentration Units: ug/L

CRQL Check Standard Source: Alt Pb Tl Zn_00001

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Lead | 9.00 | 10.5 | | 116 | 80-120 |
| Thallium | 20.0 | 19.5 | | 97 | 80-120 |
| Zinc | 20.0 | 19.4 | J | 97 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-175815/11 05/23/2013 14:02 | | CCB 280-175815/24 05/23/2013 16:17 | | CCB 280-175815/38 05/23/2013 16:48 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Iron** | 100 | 30 | U | 30 | U | 30 | U | | |
| *Aluminum* | 100 | 30 | U | 30 | U | 30 | U | | |
| *Antimony* | 10 | 8.0 | U | 4.16 | J | 3.21 | J | | |
| *Arsenic* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Barium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | | |
| *Beryllium* | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | | |
| *Boron* | 100 | 7.0 | U | 7.0 | U | 7.0 | U | | |
| *Cadmium* | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | | |
| *Calcium* | 200 | 80 | U | 80 | U | 80 | U | | |
| *Chromium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | | |
| *Cobalt* | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| *Copper* | 15 | 3.5 | U | 3.5 | U | 3.5 | U | | |
| *Lead* | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| *Magnesium* | 200 | 25 | U | 25 | U | 25 | U | | |
| *Manganese* | 10 | 0.50 | U | 0.50 | U | 0.50 | U | | |
| *Molybdenum* | 20 | 7.0 | U | 7.0 | U | 7.0 | U | | |
| *Nickel* | 40 | 3.0 | U | 3.0 | U | 3.0 | U | | |
| *Potassium* | 3000 | 250 | U | 250 | U | 250 | U | | |
| *Selenium* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Silver* | 10 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| *Sodium* | 1000 | 250 | U | 250 | U | 250 | U | | |
| *Thallium* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Vanadium* | 10 | 2.5 | U | 2.5 | U | 2.5 | U | | |
| *Zinc* | 20 | 13 | U | 13 | U | 13 | U | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-174408/11 05/14/2013 12:27 | | CCB 280-174408/77 05/15/2013 10:02 | | CCB 280-174408/88 05/15/2013 10:28 | | CCB 280-174408/101 05/15/2013 10:59 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| **Antimony** | 10 | 8.0 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| **Arsenic** | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| **Barium** | 10 | 1.5 | U | 1.5 | U | 0.730 | J | 0.680 | J |
| **Beryllium** | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| **Boron** | 100 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| **Cadmium** | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | 0.80 | U |
| **Calcium** | 200 | 80 | U | 80 | U | 80 | U | 80 | U |
| **Chromium** | 10 | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| **Cobalt** | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Copper** | 15 | 3.5 | U | 3.5 | U | 3.5 | U | 3.5 | U |
| **Iron** | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| **Lead** | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Magnesium** | 200 | 25 | U | 25 | U | 25 | U | 25 | U |
| **Manganese** | 10 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| **Molybdenum** | 20 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| **Nickel** | 40 | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| **Potassium** | 3000 | 250 | U | 250 | U | 250 | U | 250 | U |
| **Selenium** | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| **Silver** | 10 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Thallium** | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| **Vanadium** | 10 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| *Sodium* | 1000 | 250 | U | 482 | J | 326 | J | 210 | J |
| *Zinc* | 20 | 13 | U | 13 | U | 13 | U | 13 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 280-174408/111 05/15/2013 11:23 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 100 | 30 | U | | | | | | |
| **Antimony** | 10 | 8.0 | U | | | | | | |
| **Arsenic** | 15 | 12 | U | | | | | | |
| **Barium** | 10 | 0.800 | J | | | | | | |
| **Beryllium** | 1.0 | 0.50 | U | | | | | | |
| **Boron** | 100 | 7.0 | U | | | | | | |
| **Cadmium** | 5.0 | 0.80 | U | | | | | | |
| **Calcium** | 200 | 80 | U | | | | | | |
| **Chromium** | 10 | 1.5 | U | | | | | | |
| **Cobalt** | 5.0 | 2.0 | U | | | | | | |
| **Copper** | 15 | 3.5 | U | | | | | | |
| **Iron** | 100 | 30 | U | | | | | | |
| **Lead** | 9.0 | 5.0 | U | | | | | | |
| **Magnesium** | 200 | 25 | U | | | | | | |
| **Manganese** | 10 | 0.50 | U | | | | | | |
| **Molybdenum** | 20 | 7.0 | U | | | | | | |
| **Nickel** | 40 | 3.0 | U | | | | | | |
| **Potassium** | 3000 | 250 | U | | | | | | |
| **Selenium** | 15 | 12 | U | | | | | | |
| **Silver** | 10 | 2.0 | U | | | | | | |
| **Thallium** | 15 | 12 | U | | | | | | |
| **Vanadium** | 10 | 2.5 | U | | | | | | |
| *Sodium* | 1000 | 203 | J | | | | | | |
| *Zinc* | 20 | 13 | U | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-174753/11 05/16/2013 10:56 | | CCB 280-174753/87 05/16/2013 13:59 | | CCB 280-174753/99 05/16/2013 14:28 | | CCB 280-174753/110 05/16/2013 14:55 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Calcium** | 200 | 80 | U | 80 | U | 80 | U | 80 | U |
| **Iron** | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| **Sodium** | 1000 | 250 | U | 250 | U | 250 | U | 250 | U |
| **Zinc** | 20 | 13 | U | 13 | U | 13 | U | 13 | U |
| *Aluminum* | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| *Antimony* | 10 | 8.0 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| *Arsenic* | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| *Barium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| *Beryllium* | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| *Boron* | 100 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| *Cadmium* | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | 0.80 | U |
| *Chromium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| *Cobalt* | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| *Copper* | 15 | 3.5 | U | 3.5 | U | 3.5 | U | 3.5 | U |
| *Lead* | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| *Magnesium* | 200 | 25 | U | 25 | U | 25 | U | 25 | U |
| *Manganese* | 10 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| *Molybdenum* | 20 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| *Nickel* | 40 | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| *Potassium* | 3000 | 250 | U | 250 | U | 250 | U | 250 | U |
| *Selenium* | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| *Silver* | 10 | 1.59 | J | 1.73 | J | 1.77 | J | 1.36 | J |
| *Thallium* | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| *Vanadium* | 10 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 280-174753/121 05/16/2013 15:21 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Calcium** | 200 | 80 | U | | | | | | |
| **Iron** | 100 | 30 | U | | | | | | |
| **Sodium** | 1000 | 250 | U | | | | | | |
| **Zinc** | 20 | 13 | U | | | | | | |
| *Aluminum* | 100 | 30 | U | | | | | | |
| *Antimony* | 10 | 8.0 | U | | | | | | |
| *Arsenic* | 15 | 12 | U | | | | | | |
| *Barium* | 10 | 1.5 | U | | | | | | |
| *Beryllium* | 1.0 | 0.50 | U | | | | | | |
| *Boron* | 100 | 7.0 | U | | | | | | |
| *Cadmium* | 5.0 | 0.80 | U | | | | | | |
| *Chromium* | 10 | 1.5 | U | | | | | | |
| *Cobalt* | 5.0 | 2.0 | U | | | | | | |
| *Copper* | 15 | 3.5 | U | | | | | | |
| *Lead* | 9.0 | 5.0 | U | | | | | | |
| *Magnesium* | 200 | 25 | U | | | | | | |
| *Manganese* | 10 | 0.50 | U | | | | | | |
| *Molybdenum* | 20 | 7.0 | U | | | | | | |
| *Nickel* | 40 | 3.0 | U | | | | | | |
| *Potassium* | 3000 | 250 | U | | | | | | |
| *Selenium* | 15 | 12 | U | | | | | | |
| *Silver* | 10 | 1.44 | J | | | | | | |
| *Thallium* | 15 | 12 | U | | | | | | |
| *Vanadium* | 10 | 2.5 | U | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-174937/11 05/17/2013 10:01 | | CCB 280-174937/74 05/17/2013 12:41 | | CCB 280-174937/86 05/17/2013 13:10 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Sodium** | 1000 | 250 | U | 250 | U | 250 | U | | |
| *Aluminum* | 100 | 30 | U | 30 | U | 25.2 | J | | |
| *Antimony* | 10 | 8.0 | U | 8.0 | U | 8.0 | U | | |
| *Arsenic* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Barium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | | |
| *Beryllium* | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | | |
| *Boron* | 100 | 7.0 | U | 7.0 | U | 7.0 | U | | |
| *Cadmium* | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | | |
| *Calcium* | 200 | 80 | U | 80 | U | 14.0 | J | | |
| *Chromium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | | |
| *Cobalt* | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| *Copper* | 15 | 3.5 | U | 3.5 | U | 3.5 | U | | |
| *Iron* | 100 | 30 | U | 30 | U | 30 | U | | |
| *Lead* | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| *Magnesium* | 200 | 25 | U | 25 | U | 25 | U | | |
| *Manganese* | 10 | 0.50 | U | 0.50 | U | 0.50 | U | | |
| *Molybdenum* | 20 | 7.0 | U | 7.0 | U | 7.0 | U | | |
| *Nickel* | 40 | 3.0 | U | 3.0 | U | 3.0 | U | | |
| *Potassium* | 3000 | 250 | U | 250 | U | 250 | U | | |
| *Selenium* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Silver* | 10 | 2.0 | U | 2.0 | U | 1.07 | J | | |
| *Thallium* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Vanadium* | 10 | 2.5 | U | 2.5 | U | 2.5 | U | | |
| *Zinc* | 20 | 13 | U | 13 | U | 13 | U | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-175050/11 05/18/2013 09:18 | | CCB 280-175050/25 05/18/2013 15:23 | | CCB 280-175050/39 05/18/2013 15:57 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 100 | 30 | U | 30 | U | 30 | U | | |
| **Antimony** | 10 | 8.0 | U | 8.0 | U | 8.0 | U | | |
| **Arsenic** | 15 | 12 | U | 12 | U | 12 | U | | |
| **Barium** | 10 | 0.580 | J | 0.630 | J | 0.820 | J | | |
| **Beryllium** | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | | |
| **Cadmium** | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | | |
| **Calcium** | 200 | 80 | U | 62.1 | J | 80 | U | | |
| **Chromium** | 10 | 1.5 | U | 1.5 | U | 1.5 | U | | |
| **Cobalt** | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| **Copper** | 15 | 3.5 | U | 3.5 | U | 3.5 | U | | |
| **Lead** | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| **Magnesium** | 200 | 25 | U | 11.8 | J | 25 | U | | |
| **Molybdenum** | 20 | 7.0 | U | 7.0 | U | 7.0 | U | | |
| **Nickel** | 40 | 3.0 | U | 3.0 | U | 3.0 | U | | |
| **Potassium** | 3000 | 250 | U | 250 | U | 250 | U | | |
| **Selenium** | 15 | 12 | U | 4.97 | J | 12 | U | | |
| **Silver** | 10 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| **Thallium** | 15 | 12 | U | 12 | U | 12 | U | | |
| **Vanadium** | 10 | 2.5 | U | 2.5 | U | 2.5 | U | | |
| **Zinc** | 20 | 13 | U | 13 | U | 13 | U | | |
| *Boron* | 100 | 7.0 | U | | | 5.08 | J | | |
| *Iron* | 100 | 30 | U | 30 | U | 30 | U | | |
| *Manganese* | 10 | 0.50 | U | | | 0.50 | U | | |
| *Sodium* | 1000 | 120 | J | | | 102 | J | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-175407/11 05/21/2013 12:21 | | CCB 280-175407/68 05/21/2013 14:49 | | CCB 280-175407/82 05/21/2013 15:23 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Boron** | 100 | 7.0 | U | 7.0 | U | 7.0 | U | | |
| **Manganese** | 10 | 0.50 | U | 0.50 | U | 0.50 | U | | |
| **Sodium** | 1000 | 250 | U | 250 | U | 250 | U | | |
| *Aluminum* | 100 | 30 | U | 30 | U | 30 | U | | |
| *Antimony* | 10 | 4.02 | J | 4.19 | J | 8.0 | U | | |
| *Arsenic* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Barium* | 10 | 0.630 | J | 1.5 | U | 1.5 | U | | |
| *Beryllium* | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | | |
| *Cadmium* | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | | |
| *Calcium* | 200 | 80 | U | 80 | U | 80 | U | | |
| *Chromium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | | |
| *Cobalt* | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| *Copper* | 15 | 3.5 | U | 3.5 | U | 3.5 | U | | |
| *Iron* | 100 | 30 | U | 30 | U | 30 | U | | |
| *Lead* | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| *Magnesium* | 200 | 25 | U | 25 | U | 25 | U | | |
| *Molybdenum* | 20 | 7.0 | U | 7.0 | U | 7.0 | U | | |
| *Nickel* | 40 | 3.0 | U | 3.0 | U | 3.0 | U | | |
| *Potassium* | 3000 | 250 | U | 250 | U | 250 | U | | |
| *Selenium* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Silver* | 10 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| *Thallium* | 15 | 12 | U | 12 | U | 12 | U | | |
| *Vanadium* | 10 | 2.5 | U | 2.5 | U | 2.5 | U | | |
| *Zinc* | 20 | 13 | U | 13 | U | 13 | U | | |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-173661/1-A

Instrument Code: MT_026 Batch No.: 174408

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2.92 | J | | 6010C |
| 7440-36-0 | Antimony | 0.57 | U | | 6010C |
| 7440-38-2 | Arsenic | 0.94 | U | | 6010C |
| 7440-39-3 | Barium | 0.118 | J | | 6010C |
| 7440-41-7 | Beryllium | 0.066 | U | | 6010C |
| 7440-42-8 | Boron | 1.21 | J | | 6010C |
| 7440-43-9 | Cadmium | 0.094 | U | | 6010C |
| 7440-70-2 | Calcium | 19 | U | | 6010C |
| 7440-47-3 | Chromium | 0.14 | U | Q | 6010C |
| 7440-48-4 | Cobalt | 0.19 | U | | 6010C |
| 7440-50-8 | Copper | 0.47 | U | Q | 6010C |
| 7439-89-6 | Iron | 4.7 | U | | 6010C |
| 7439-92-1 | Lead | 0.75 | U | | 6010C |
| 7439-95-4 | Magnesium | 4.7 | U | | 6010C |
| 7439-96-5 | Manganese | 0.14 | U | Q | 6010C |
| 7439-98-7 | Molybdenum | 0.47 | U | | 6010C |
| 7440-02-0 | Nickel | 0.19 | U | | 6010C |
| 7440-09-7 | Potassium | 47 | U | | 6010C |
| 7782-49-2 | Selenium | 1.1 | U | | 6010C |
| 7440-22-4 | Silver | 0.19 | U | | 6010C |
| 7440-28-0 | Thallium | 1.1 | U | | 6010C |
| 7440-62-2 | Vanadium | 0.19 | U | Q | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-173661/1-A

Instrument Code: MT_026 Batch No.: 174753

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-23-5 | Sodium | 94 | U | | 6010C |
| 7440-66-6 | Zinc | 0.75 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-174378/1-A

Instrument Code: MT_026 Batch No.: 175050

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 31 | U | | 6010C |
| 7440-36-0 | Antimony | 8.0 | U | | 6010C |
| 7440-38-2 | Arsenic | 12 | U | | 6010C |
| 7440-39-3 | Barium | 1.5 | U | | 6010C |
| 7440-41-7 | Beryllium | 0.50 | U | | 6010C |
| 7440-43-9 | Cadmium | 0.80 | U | | 6010C |
| 7440-70-2 | Calcium | 80 | U | | 6010C |
| 7440-47-3 | Chromium | 1.5 | U | Q | 6010C |
| 7440-48-4 | Cobalt | 2.0 | U | | 6010C |
| 7440-50-8 | Copper | 3.5 | U | Q | 6010C |
| 7439-92-1 | Lead | 5.0 | U | | 6010C |
| 7439-95-4 | Magnesium | 25 | U | | 6010C |
| 7439-98-7 | Molybdenum | 7.0 | U | | 6010C |
| 7440-02-0 | Nickel | 3.0 | U | | 6010C |
| 7440-09-7 | Potassium | 250 | U | | 6010C |
| 7782-49-2 | Selenium | 12 | U | | 6010C |
| 7440-22-4 | Silver | 2.0 | U | | 6010C |
| 7440-28-0 | Thallium | 12 | U | | 6010C |
| 7440-62-2 | Vanadium | 2.5 | U | Q | 6010C |
| 7440-66-6 | Zinc | 13 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-174378/1-A

Instrument Code: MT_026 Batch No.: 175407

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-42-8 | Boron | 7.0 | U | | 6010C |
| 7439-96-5 | Manganese | 0.440 | J | Q | 6010C |
| 7440-23-5 | Sodium | 250 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-175463/1-A

Instrument Code: MT_025 Batch No.: 175815

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-89-6 | Iron | 30.3 | J | | 6010C |

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSA 280-175815/15  Instrument ID: MT_025

Lab File ID: 25A2052313.asc  ICS Source: ICP ICSA_00072

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Iron** | **200000** | **190110** | **95** |
| *Aluminum* | *500000* | *502460* | *100* |
| *Antimony* | | *-1.76* | |
| *Arsenic* | | *-2.47* | |
| *Barium* | | *0.450* | |
| *Beryllium* | | *-0.0100* | |
| *Boron* | | *-1.12* | |
| *Cadmium* | | *2.39* | |
| *Calcium* | *500000* | *466330* | *93* |
| *Chromium* | | *2.08* | |
| *Cobalt* | | *-1.74* | |
| *Copper* | | *4.23* | |
| *Lead* | | *-0.290* | |
| *Lithium* | | *2.97* | |
| *Magnesium* | *500000* | *484800* | *97* |
| *Manganese* | | *1.45* | |
| *Molybdenum* | | *-0.100* | |
| *Nickel* | | *-0.780* | |
| *Phosphorus* | | *-2.89* | |
| *Potassium* | | *152* | |
| *Selenium* | | *4.05* | |
| *Silicon* | | *9.74* | |
| *Silver* | | *-1.06* | |
| *SiO2* | | *20.8* | |
| *Sodium* | | *84.0* | |
| *Strontium* | | *1.77* | |
| *Thallium* | | *-6.06* | |
| *Thorium* | | *10.8* | |
| *Tin* | | *0.210* | |
| *Titanium* | | *0.400* | |
| *Vanadium* | | *2.10* | |
| *Zinc* | | *0.420* | |
| *Zirconium* | | *2.87* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSAB 280-175815/16 Instrument ID: MT_025

Lab File ID: 25A2052313.asc ICS Source: ICP ICSAB_00065

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Found Percent Recovery |
|---|---|---|---|
| **Iron** | **200000** | **187960** | **94** |
| *Aluminum* | *500000* | *497270* | *99* |
| *Antimony* | *1000* | *1014* | *101* |
| *Arsenic* | *2000* | *1913* | *96* |
| *Barium* | *500* | *488* | *98* |
| *Beryllium* | *500* | *468* | *94* |
| *Boron* | *2000* | *1867* | *93* |
| *Cadmium* | *1000* | *991* | *99* |
| *Calcium* | *500000* | *459650* | *92* |
| *Chromium* | *500* | *475* | *95* |
| *Cobalt* | *500* | *454* | *91* |
| *Copper* | *500* | *521* | *104* |
| *Lead* | *1000* | *903* | *90* |
| *Lithium* | *1000* | *998* | *100* |
| *Magnesium* | *500000* | *473460* | *95* |
| *Manganese* | *500* | *488* | *98* |
| *Molybdenum* | *1000* | *941* | *94* |
| *Nickel* | *1000* | *896* | *90* |
| *Phosphorus* | *2000* | *1859* | *93* |
| *Potassium* | *50000* | *49927* | *100* |
| *Selenium* | *5000* | *4687* | *94* |
| *Silicon* | *10000* | *10231* | *102* |
| *Silver* | *1000* | *1070* | *107* |
| *SiO2* | *21400* | *21895* | *102* |
| *Sodium* | *50000* | *49959* | *100* |
| *Strontium* | *1000* | *958* | *96* |
| *Thallium* | *10000* | *8171* | *82* |
| *Thorium* | *2000* | *2031* | *102* |
| *Tin* | *10000* | *8877* | *89* |
| *Titanium* | *1000* | *993* | *99* |
| *Vanadium* | *500* | *491* | *98* |
| *Zinc* | *1000* | *949* | *95* |
| *Zirconium* | *1000* | *981* | *98* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSA 280-174408/14  Instrument ID: MT_026

Lab File ID: 26E051413.asc  ICS Source: ICP ICSA_00072

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **510690** | **102** |
| **Antimony** | | **-4.16** | |
| **Arsenic** | | **0.0500** | |
| **Barium** | | **0.840** | |
| **Beryllium** | | **-0.270** | |
| **Boron** | | **-3.29** | |
| **Cadmium** | | **0.720** | |
| **Calcium** | **500000** | **480190** | **96** |
| **Chromium** | | **1.94** | |
| **Cobalt** | | **0.350** | |
| **Copper** | | **4.05** | |
| **Iron** | **200000** | **189510** | **95** |
| **Lead** | | **0.770** | |
| **Magnesium** | **500000** | **519330** | **104** |
| **Manganese** | | **3.94** | |
| **Molybdenum** | | **-1.47** | |
| **Nickel** | | **2.20** | |
| **Potassium** | | **-71.7** | |
| **Selenium** | | **-6.22** | |
| **Silver** | | **-0.920** | |
| **Thallium** | | **-1.78** | |
| **Vanadium** | | **2.91** | |
| *Lithium* | | *3.93* | |
| *Phosphorus* | | *-11.5* | |
| *Silicon* | | *3.03* | |
| *Sodium* | | *127* | |
| *Thorium* | | *21.7* | |
| *Tin* | | *-1.02* | |
| *Titanium* | | *-0.190* | |
| *Zinc* | | *10.9* | |
| *Zirconium* | | *-1.37* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSAB 280-174408/15 Instrument ID: MT_026

Lab File ID: 26E051413.asc ICS Source: ICP ICSAB_00065

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **513890** | **103** |
| **Antimony** | **1000** | **1026** | **103** |
| **Arsenic** | **2000** | **2047** | **102** |
| **Barium** | **500** | **507** | **101** |
| **Beryllium** | **500** | **487** | **97** |
| **Boron** | **2000** | **1984** | **99** |
| **Cadmium** | **1000** | **1059** | **106** |
| **Calcium** | **500000** | **480350** | **96** |
| **Chromium** | **500** | **496** | **99** |
| **Cobalt** | **500** | **486** | **97** |
| **Copper** | **500** | **549** | **110** |
| **Iron** | **200000** | **191480** | **96** |
| **Lead** | **1000** | **970** | **97** |
| **Magnesium** | **500000** | **522340** | **104** |
| **Manganese** | **500** | **518** | **104** |
| **Molybdenum** | **1000** | **961** | **96** |
| **Nickel** | **1000** | **950** | **95** |
| **Potassium** | **50000** | **53101** | **106** |
| **Selenium** | **5000** | **5100** | **102** |
| **Silver** | **1000** | **1146** | **115** |
| **Thallium** | **10000** | **8853** | **89** |
| **Vanadium** | **500** | **518** | **104** |
| *Lithium* | *1000* | *1074* | *107* |
| *Phosphorus* | *2000* | *2015* | *101* |
| *Silicon* | *10000* | *10376* | *104* |
| *Sodium* | *50000* | *52617* | *105* |
| *Strontium* | *1000* | *984* | *98* |
| *Thorium* | *2000* | *2055* | *103* |
| *Tin* | *10000* | *9315* | *93* |
| *Titanium* | *1000* | *1015* | *102* |
| *Zinc* | *1000* | *1031* | *103* |
| *Zirconium* | *1000* | *954* | *95* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSA 280-174753/13  Instrument ID: MT_026

Lab File ID: 26a051613.asc  ICS Source: ICP ICSA_00072

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Calcium** | **500000** | **458440** | **92** |
| **Iron** | **200000** | **187220** | **94** |
| **Sodium** | | **161** | |
| **Zinc** | | **10.9** | |
| *Aluminum* | *500000* | *494450* | *99* |
| *Antimony* | | *1.30* | |
| *Arsenic* | | *0.940* | |
| *Barium* | | *-0.710* | |
| *Beryllium* | | *-0.190* | |
| *Boron* | | *-0.320* | |
| *Cadmium* | | *0.790* | |
| *Cobalt* | | *0.180* | |
| *Lead* | | *0.310* | |
| *Lithium* | | *0.410* | |
| *Magnesium* | *500000* | *493350* | *99* |
| *Molybdenum* | | *-2.17* | |
| *Nickel* | | *2.39* | |
| *Phosphorus* | | *-2.06* | |
| *Potassium* | | *21.5* | |
| *Selenium* | | *5.25* | |
| *Silicon* | | *-9.40* | |
| *Silver* | | *0.220* | |
| *Thallium* | | *-1.99* | |
| *Tin* | | *0.720* | |
| *Titanium* | | *-1.02* | |
| *Zirconium* | | *2.06* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSAB 280-174753/14 Instrument ID: MT_026

Lab File ID: 26a051613.asc ICS Source: ICP ICSAB_00065

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Calcium** | **500000** | **464150** | **93** |
| **Iron** | **200000** | **186340** | **93** |
| **Sodium** | **50000** | **50847** | **102** |
| **Zinc** | **1000** | **947** | **95** |
| *Aluminum* | *500000* | *496560* | *99* |
| *Antimony* | *1000* | *1008* | *101* |
| *Arsenic* | *2000* | *1959* | *98* |
| *Barium* | *500* | *491* | *98* |
| *Beryllium* | *500* | *469* | *94* |
| *Boron* | *2000* | *2003* | *100* |
| *Cadmium* | *1000* | *1033* | *103* |
| *Chromium* | *500* | *487* | *97* |
| *Cobalt* | *500* | *481* | *96* |
| *Copper* | *500* | *537* | *107* |
| *Lead* | *1000* | *961* | *96* |
| *Lithium* | *1000* | *999* | *100* |
| *Magnesium* | *500000* | *491430* | *98* |
| *Manganese* | *500* | *499* | *100* |
| *Molybdenum* | *1000* | *945* | *95* |
| *Nickel* | *1000* | *934* | *93* |
| *Phosphorus* | *2000* | *1966* | *98* |
| *Potassium* | *50000* | *49860* | *100* |
| *Selenium* | *5000* | *4969* | *99* |
| *Silicon* | *10000* | *9924* | *99* |
| *Silver* | *1000* | *1097* | *110* |
| *Strontium* | *1000* | *978* | *98* |
| *Thallium* | *10000* | *8909* | *89* |
| *Thorium* | *2000* | *2083* | *104* |
| *Tin* | *10000* | *9125* | *91* |
| *Titanium* | *1000* | *994* | *99* |
| *Vanadium* | *500* | *498* | *100* |
| *Zirconium* | *1000* | *922* | *92* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSA 280-174937/14 Instrument ID: MT_026

Lab File ID: 26a051713.asc ICS Source: ICP ICSA_00072

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Sodium** | | **183** | |
| *Aluminum* | *500000* | *503080* | *101* |
| *Antimony* | | *2.21* | |
| *Arsenic* | | *-2.77* | |
| *Barium* | | *-0.660* | |
| *Beryllium* | | *-0.210* | |
| *Boron* | | *-0.280* | |
| *Cadmium* | | *0.760* | |
| *Calcium* | *500000* | *461870* | *92* |
| *Cobalt* | | *0.0400* | |
| *Iron* | *200000* | *188290* | *94* |
| *Lead* | | *1.74* | |
| *Lithium* | | *0.540* | |
| *Magnesium* | *500000* | *493770* | *99* |
| *Molybdenum* | | *-1.26* | |
| *Nickel* | | *2.42* | |
| *Phosphorus* | | *1.77* | |
| *Selenium* | | *3.90* | |
| *Silicon* | | *-1.87* | |
| *Silver* | | *0.340* | |
| *Thallium* | | *-1.34* | |
| *Tin* | | *-1.49* | |
| *Titanium* | | *-0.440* | |
| *Zinc* | | *9.78* | |
| *Zirconium* | | *-1.95* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSAB 280-174937/15 Instrument ID: MT_026

Lab File ID: 26a051713.asc ICS Source: ICP ICSAB_00065

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Sodium** | **50000** | **50491** | **101** |
| *Aluminum* | *500000* | *502100* | *100* |
| *Antimony* | *1000* | *1000* | *100* |
| *Arsenic* | *2000* | *1917* | *96* |
| *Barium* | *500* | *486* | *97* |
| *Beryllium* | *500* | *462* | *92* |
| *Boron* | *2000* | *1983* | *99* |
| *Cadmium* | *1000* | *1022* | *102* |
| *Calcium* | *500000* | *455270* | *91* |
| *Chromium* | *500* | *479* | *96* |
| *Cobalt* | *500* | *475* | *95* |
| *Copper* | *500* | *528* | *106* |
| *Iron* | *200000* | *188200* | *94* |
| *Lead* | *1000* | *947* | *95* |
| *Lithium* | *1000* | *1003* | *100* |
| *Magnesium* | *500000* | *489070* | *98* |
| *Manganese* | *500* | *495* | *99* |
| *Molybdenum* | *1000* | *923* | *92* |
| *Nickel* | *1000* | *918* | *92* |
| *Phosphorus* | *2000* | *1939* | *97* |
| *Potassium* | *50000* | *49919* | *100* |
| *Selenium* | *5000* | *4909* | *98* |
| *Silicon* | *10000* | *9946* | *99* |
| *Silver* | *1000* | *1092* | *109* |
| *Strontium* | *1000* | *972* | *97* |
| *Thallium* | *10000* | *8796* | *88* |
| *Thorium* | *2000* | *2084* | *104* |
| *Tin* | *10000* | *8939* | *89* |
| *Titanium* | *1000* | *984* | *98* |
| *Vanadium* | *500* | *494* | *99* |
| *Zinc* | *1000* | *946* | *95* |
| *Zirconium* | *1000* | *918* | *92* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSA 280-175050/16 Instrument ID: MT_026

Lab File ID: 26b051813.asc ICS Source: ICP ICSA_00072

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **499550** | **100** |
| **Antimony** | | **-2.24** | |
| **Arsenic** | | **0.160** | |
| **Barium** | | **0.770** | |
| **Beryllium** | | **-0.370** | |
| **Cadmium** | | **0.640** | |
| **Calcium** | **500000** | **484990** | **97** |
| **Chromium** | | **2.15** | |
| **Cobalt** | | **-0.210** | |
| **Copper** | | **4.47** | |
| **Lead** | | **2.08** | |
| **Magnesium** | **500000** | **513560** | **103** |
| **Molybdenum** | | **-2.13** | |
| **Nickel** | | **2.01** | |
| **Potassium** | | **118** | |
| **Selenium** | | **4.78** | |
| **Silver** | | **-0.290** | |
| **Thallium** | | **-0.300** | |
| **Vanadium** | | **4.72** | |
| **Zinc** | | **11.7** | |
| *Boron* | | *1.31* | |
| *Iron* | *200000* | *188680* | *94* |
| *Lithium* | | *2.54* | |
| *Phosphorus* | | *1.59* | |
| *Silicon* | | *10.3* | |
| *Sodium* | | *168* | |
| *Tin* | | *-0.150* | |
| *Titanium* | | *-0.140* | |
| *Zirconium* | | *0.570* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSAB 280-175050/17 Instrument ID: MT_026

Lab File ID: 26b051813.asc ICS Source: ICP ICSAB_00065

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **498530** | **100** |
| **Antimony** | **1000** | **1035** | **104** |
| **Arsenic** | **2000** | **2006** | **100** |
| **Barium** | **500** | **513** | **103** |
| **Beryllium** | **500** | **494** | **99** |
| **Cadmium** | **1000** | **1059** | **106** |
| **Calcium** | **500000** | **483330** | **97** |
| **Chromium** | **500** | **511** | **102** |
| **Cobalt** | **500** | **494** | **99** |
| **Copper** | **500** | **564** | **113** |
| **Lead** | **1000** | **991** | **99** |
| **Magnesium** | **500000** | **513720** | **103** |
| **Molybdenum** | **1000** | **1005** | **100** |
| **Nickel** | **1000** | **974** | **97** |
| **Potassium** | **50000** | **52575** | **105** |
| **Selenium** | **5000** | **5023** | **100** |
| **Silver** | **1000** | **1112** | **111** |
| **Thallium** | **10000** | **9427** | **94** |
| **Vanadium** | **500** | **523** | **105** |
| **Zinc** | **1000** | **995** | **100** |
| *Boron* | *2000* | *2012* | *101* |
| *Iron* | *200000* | *189290* | *95* |
| *Lithium* | *1000* | *1060* | *106* |
| *Manganese* | *500* | *515* | *103* |
| *Phosphorus* | *2000* | *2008* | *100* |
| *Silicon* | *10000* | *10492* | *105* |
| *Sodium* | *50000* | *51758* | *104* |
| *Strontium* | *1000* | *997* | *100* |
| *Thorium* | *2000* | *2061* | *103* |
| *Tin* | *10000* | *9671* | *97* |
| *Titanium* | *1000* | *1036* | *104* |
| *Zirconium* | *1000* | *979* | *98* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSA 280-175407/14 Instrument ID: MT_026

Lab File ID: 26A052113.asc ICS Source: ICP ICSA_00072

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Boron** | | **-0.510** | |
| **Manganese** | | **3.82** | |
| **Sodium** | | **151** | |
| *Aluminum* | *500000* | *510410* | *102* |
| *Antimony* | | *-2.31* | |
| *Arsenic* | | *2.13* | |
| *Barium* | | *0.190* | |
| *Beryllium* | | *-0.210* | |
| *Cadmium* | | *0.800* | |
| *Calcium* | *500000* | *482500* | *97* |
| *Cobalt* | | *-0.0200* | |
| *Iron* | *200000* | *191930* | *96* |
| *Lead* | | *1.39* | |
| *Lithium* | | *1.68* | |
| *Magnesium* | *500000* | *502070* | *100* |
| *Molybdenum* | | *-1.27* | |
| *Nickel* | | *1.71* | |
| *Phosphorus* | | *-2.83* | |
| *Potassium* | | *-44.6* | |
| *Selenium* | | *-2.64* | |
| *Silicon* | | *9.69* | |
| *Silver* | | *-0.590* | |
| *Thallium* | | *0.110* | |
| *Thorium* | | *20.9* | |
| *Tin* | | *-1.01* | |
| *Titanium* | | *-0.430* | |
| *Zinc* | | *10.6* | |
| *Zirconium* | | *-3.27* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Lab Sample ID: ICSAB 280-175407/15 Instrument ID: MT_026

Lab File ID: 26A052113.asc ICS Source: ICP ICSAB_00065

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Boron** | **2000** | **1902** | **95** |
| **Manganese** | **500** | **513** | **103** |
| **Sodium** | **50000** | **52052** | **104** |
| *Aluminum* | *500000* | *516410* | *103* |
| *Antimony* | *1000* | *1032* | *103* |
| *Arsenic* | *2000* | *1993* | *100* |
| *Barium* | *500* | *517* | *103* |
| *Beryllium* | *500* | *485* | *97* |
| *Cadmium* | *1000* | *1060* | *106* |
| *Calcium* | *500000* | *481350* | *96* |
| *Chromium* | *500* | *502* | *100* |
| *Cobalt* | *500* | *490* | *98* |
| *Copper* | *500* | *547* | *109* |
| *Iron* | *200000* | *194810* | *97* |
| *Lead* | *1000* | *977* | *98* |
| *Lithium* | *1000* | *1049* | *105* |
| *Magnesium* | *500000* | *498400* | *100* |
| *Molybdenum* | *1000* | *979* | *98* |
| *Nickel* | *1000* | *949* | *95* |
| *Phosphorus* | *2000* | *1940* | *97* |
| *Potassium* | *50000* | *51987* | *104* |
| *Selenium* | *5000* | *4913* | *98* |
| *Silicon* | *10000* | *10388* | *104* |
| *Silver* | *1000* | *1126* | *113* |
| *Strontium* | *1000* | *984* | *98* |
| *Thallium* | *10000* | *8997* | *90* |
| *Thorium* | *2000* | *2132* | *107* |
| *Tin* | *10000* | *9367* | *94* |
| *Titanium* | *1000* | *1035* | *103* |
| *Vanadium* | *500* | *514* | *103* |
| *Zinc* | *1000* | *987* | *99* |
| *Zirconium* | *1000* | *996* | *100* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 050613AE MS  Lab ID: 280-42039-11 MS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Matrix: Water  Concentration Units: ug/L

% Solids:

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 2060 | | 31 | U | 2000 | 103 | 80-120 | | 6010C |
| Antimony | 538 | | 8.0 | U | 500 | 108 | 80-120 | | 6010C |
| Arsenic | 1020 | | 12 | U | 1000 | 102 | 80-120 | | 6010C |
| Barium | 2080 | | 0.82 | J | 2000 | 104 | 80-120 | | 6010C |
| Beryllium | 51.6 | | 0.50 | U | 50.0 | 103 | 80-120 | | 6010C |
| Boron | 971 | | 7.0 | U | 1000 | 97 | 87-113 | | 6010C |
| Cadmium | 107 | | 0.80 | U | 100 | 107 | 80-120 | | 6010C |
| Calcium | 51300 | | 80 | U | 50000 | 103 | 80-120 | | 6010C |
| Chromium | 208 | | 1.5 | U | 200 | 104 | 80-120 | Q | 6010C |
| Cobalt | 518 | | 2.0 | U | 500 | 104 | 80-120 | | 6010C |
| Copper | 260 | | 3.5 | U | 250 | 104 | 80-120 | Q | 6010C |
| Iron | 1080 | | 29 | J | 1000 | 105 | 80-120 | | 6010C |
| Lead | 519 | | 5.0 | U | 500 | 104 | 80-120 | | 6010C |
| Magnesium | 51500 | | 25 | U | 50000 | 103 | 80-120 | | 6010C |
| Manganese | 497 | | 0.69 | J | 500 | 99 | 80-120 | Q | 6010C |
| Molybdenum | 1050 | | 7.0 | U | 1000 | 105 | 80-120 | | 6010C |
| Nickel | 514 | | 3.0 | U | 500 | 103 | 80-120 | | 6010C |
| Potassium | 54200 | | 250 | U | 50000 | 108 | 80-120 | | 6010C |
| Selenium | 2110 | | 12 | U | 2000 | 106 | 80-120 | | 6010C |
| Silver | 54.9 | | 2.0 | U | 50.0 | 110 | 80-120 | | 6010C |
| Sodium | 50900 | | 250 | U | 50000 | 102 | 80-120 | | 6010C |
| Thallium | 2110 | | 12 | U | 2000 | 106 | 80-120 | | 6010C |
| Vanadium | 518 | | 2.5 | U | 500 | 104 | 80-120 | Q | 6010C |
| Zinc | 512 | | 13 | U | 500 | 102 | 80-120 | | 6010C |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 050613AE MSD
Lab ID: 280-42039-11 MSD
Lab Name: TestAmerica Denver
Job No.: 280-42039-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

| Analyte | (SDR) | C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 2030 | | 2000 | 101 | 80-120 | 2 | 20 | | 6010C |
| Antimony | 531 | | 500 | 106 | 80-120 | 1 | 20 | | 6010C |
| Arsenic | 1010 | | 1000 | 101 | 80-120 | 2 | 20 | | 6010C |
| Barium | 2050 | | 2000 | 102 | 80-120 | 1 | 20 | | 6010C |
| Beryllium | 50.4 | | 50.0 | 101 | 80-120 | 2 | 20 | | 6010C |
| Boron | 983 | | 1000 | 98 | 87-113 | 1 | 20 | | 6010C |
| Cadmium | 106 | | 100 | 106 | 80-120 | 1 | 20 | | 6010C |
| Calcium | 50600 | | 50000 | 101 | 80-120 | 1 | 20 | | 6010C |
| Chromium | 204 | | 200 | 102 | 80-120 | 2 | 20 | Q | 6010C |
| Cobalt | 508 | | 500 | 102 | 80-120 | 2 | 20 | | 6010C |
| Copper | 257 | | 250 | 103 | 80-120 | 1 | 20 | Q | 6010C |
| Iron | 891 | | 1000 | 86 | 80-120 | 19 | 20 | | 6010C |
| Lead | 510 | | 500 | 102 | 80-120 | 2 | 20 | | 6010C |
| Magnesium | 51000 | | 50000 | 102 | 80-120 | 1 | 20 | | 6010C |
| Manganese | 499 | | 500 | 100 | 80-120 | 1 | 20 | Q | 6010C |
| Molybdenum | 1050 | | 1000 | 105 | 80-120 | 1 | 20 | | 6010C |
| Nickel | 506 | | 500 | 101 | 80-120 | 1 | 20 | | 6010C |
| Potassium | 53600 | | 50000 | 107 | 80-120 | 1 | 20 | | 6010C |
| Selenium | 2070 | | 2000 | 104 | 80-120 | 2 | 20 | | 6010C |
| Silver | 54.1 | | 50.0 | 108 | 80-120 | 2 | 20 | | 6010C |
| Sodium | 50700 | | 50000 | 101 | 80-120 | 1 | 20 | | 6010C |
| Thallium | 2080 | | 2000 | 104 | 80-120 | 2 | 20 | | 6010C |
| Vanadium | 511 | | 500 | 102 | 80-120 | 1 | 20 | Q | 6010C |
| Zinc | 508 | | 500 | 102 | 80-120 | 1 | 20 | | 6010C |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 050613AE PDS  Lab ID: 280-42039-11 PDS

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Matrix: Water  Concentration Units: ug/L

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1050 | | 31 | U | 1000 | 105 | 75-125 | | 6010C |
| Antimony | 107 | | 8.0 | U | 100 | 107 | 75-125 | | 6010C |
| Arsenic | 201 | | 12 | U | 200 | 100 | 75-125 | | 6010C |
| Barium | 106 | | 0.82 | J | 100 | 105 | 75-125 | | 6010C |
| Beryllium | 51.3 | | 0.50 | U | 50.0 | 103 | 75-125 | | 6010C |
| Boron | 102 | | 7.0 | U | 100 | 102 | 75-125 | | 6010C |
| Cadmium | 53.0 | | 0.80 | U | 50.0 | 106 | 75-125 | | 6010C |
| Calcium | 20400 | | 80 | U | 20000 | 102 | 75-125 | | 6010C |
| Chromium | 52.3 | | 1.5 | U | 50.0 | 105 | 75-125 | Q | 6010C |
| Cobalt | 52.4 | | 2.0 | U | 50.0 | 105 | 75-125 | | 6010C |
| Copper | 54.4 | | 3.5 | U | 50.0 | 109 | 75-125 | Q | 6010C |
| Iron | 1050 | | 29 | J | 1000 | 102 | 75-125 | | 6010C |
| Lead | 107 | | 5.0 | U | 100 | 107 | 75-125 | | 6010C |
| Magnesium | 20700 | | 25 | U | 20000 | 104 | 75-125 | | 6010C |
| Manganese | 53.4 | | 0.69 | J | 50.0 | 105 | 75-125 | Q | 6010C |
| Molybdenum | 54.1 | | 7.0 | U | 50.0 | 108 | 75-125 | | 6010C |
| Nickel | 51.6 | | 3.0 | U | 50.0 | 103 | 75-125 | | 6010C |
| Potassium | 21600 | | 250 | U | 20000 | 108 | 75-125 | | 6010C |
| Selenium | 205 | | 12 | U | 200 | 103 | 75-125 | | 6010C |
| Silver | 51.9 | | 2.0 | U | 50.0 | 104 | 75-125 | | 6010C |
| Sodium | 21300 | | 250 | U | 20000 | 106 | 75-125 | | 6010C |
| Thallium | 214 | | 12 | U | 200 | 107 | 75-125 | | 6010C |
| Vanadium | 52.8 | | 2.5 | U | 50.0 | 106 | 75-125 | Q | 6010C |
| Zinc | 213 | | 13 | U | 200 | 107 | 75-125 | | 6010C |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-173661/2-A

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

Sample Matrix: Solid  LCS Source: ICP SPK 3A_00061

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Aluminum | 192 | 187 | | 97 | 80 | 120 | | 6010C |
| Antimony | 48.1 | 48.4 | | 101 | 80 | 120 | | 6010C |
| Arsenic | 96.2 | 98.3 | | 102 | 80 | 120 | | 6010C |
| Barium | 192 | 197 | | 103 | 80 | 120 | | 6010C |
| Beryllium | 4.81 | 4.64 | | 96 | 80 | 120 | | 6010C |
| Boron | 96.2 | 110 | | 115 | 80 | 120 | | 6010C |
| Cadmium | 9.62 | 9.99 | | 104 | 80 | 120 | | 6010C |
| Calcium | 4810 | 4790 | | 100 | 80 | 120 | | 6010C |
| Chromium | 19.2 | 19.2 | | 100 | 80 | 120 | Q | 6010C |
| Cobalt | 48.1 | 48.3 | | 101 | 80 | 120 | | 6010C |
| Copper | 24.0 | 24.1 | | 100 | 80 | 120 | Q | 6010C |
| Iron | 96.2 | 96.5 | | 100 | 80 | 120 | | 6010C |
| Lead | 48.1 | 48.0 | | 100 | 80 | 120 | | 6010C |
| Magnesium | 4810 | 5030 | | 105 | 80 | 120 | | 6010C |
| Manganese | 48.1 | 49.2 | | 102 | 80 | 120 | Q | 6010C |
| Molybdenum | 96.2 | 93.9 | | 98 | 80 | 120 | | 6010C |
| Nickel | 48.1 | 48.0 | | 100 | 80 | 120 | | 6010C |
| Potassium | 4810 | 4970 | | 103 | 80 | 120 | | 6010C |
| Selenium | 192 | 195 | | 101 | 80 | 120 | | 6010C |
| Silver | 4.81 | 5.33 | | 111 | 80 | 120 | | 6010C |
| Thallium | 192 | 186 | | 97 | 80 | 120 | | 6010C |
| Vanadium | 48.1 | 48.8 | | 102 | 80 | 120 | Q | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-173661/2-A

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

Sample Matrix: Solid  LCS Source: ICP SPK 3A_00061

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Sodium | 4810 | 4960 | | 103 | 80 | 120 | | 6010C |
| Zinc | 48.1 | 44.7 | | 93 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-174378/2-A

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

Sample Matrix: Water  LCS Source: ICP SPK 3A_00061

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Aluminum | 2000 | 2030 | | 101 | 80 | 120 | | 6010C |
| Antimony | 500 | 526 | | 105 | 80 | 120 | | 6010C |
| Arsenic | 1000 | 1010 | | 101 | 80 | 120 | | 6010C |
| Barium | 2000 | 2060 | | 103 | 80 | 120 | | 6010C |
| Beryllium | 50.0 | 50.9 | | 102 | 80 | 120 | | 6010C |
| Cadmium | 100 | 106 | | 106 | 80 | 120 | | 6010C |
| Calcium | 50000 | 50600 | | 101 | 80 | 120 | | 6010C |
| Chromium | 200 | 205 | | 103 | 80 | 120 | Q | 6010C |
| Cobalt | 500 | 509 | | 102 | 80 | 120 | | 6010C |
| Copper | 250 | 260 | | 104 | 80 | 120 | Q | 6010C |
| Lead | 500 | 511 | | 102 | 80 | 120 | | 6010C |
| Magnesium | 50000 | 51400 | | 103 | 80 | 120 | | 6010C |
| Molybdenum | 1000 | 1040 | | 104 | 80 | 120 | | 6010C |
| Nickel | 500 | 508 | | 102 | 80 | 120 | | 6010C |
| Potassium | 50000 | 53500 | | 107 | 80 | 120 | | 6010C |
| Selenium | 2000 | 2080 | | 104 | 80 | 120 | | 6010C |
| Silver | 50.0 | 53.8 | | 108 | 80 | 120 | | 6010C |
| Thallium | 2000 | 2080 | | 104 | 80 | 120 | | 6010C |
| Vanadium | 500 | 515 | | 103 | 80 | 120 | Q | 6010C |
| Zinc | 500 | 509 | | 102 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-174378/2-A

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

Sample Matrix: Water  LCS Source: ICP SPK 2A_00059

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Boron | 1000 | 974 | | 97 | 86 | 110 | | 6010C |
| Manganese | 500 | 506 | | 101 | 80 | 120 | Q | 6010C |
| Sodium | 50000 | 52000 | | 104 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-175463/2-A

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

Sample Matrix: Water  LCS Source: ICP SPK 3A_00061

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Iron | 1000 | 960 | | 96 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-42039-11

SDG No:

Lab Name: TestAmerica Denver Job No: 280-42039-1

Matrix: Water Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Aluminum | 31 | U | 160 | U | NC | | 6010C |
| Antimony | 8.0 | U | 40 | U | NC | | 6010C |
| Arsenic | 12 | U | 60 | U | NC | | 6010C |
| Barium | 0.82 | J | 3.45 | J | NC | D | 6010C |
| Beryllium | 0.50 | U | 2.5 | U | NC | | 6010C |
| Boron | 7.0 | U | 35 | U | NC | | 6010C |
| Cadmium | 0.80 | U | 4.0 | U | NC | | 6010C |
| Calcium | 80 | U | 400 | U | NC | | 6010C |
| Chromium | 1.5 | U | 7.5 | U | NC | Q | 6010C |
| Cobalt | 2.0 | U | 10 | U | NC | | 6010C |
| Copper | 3.5 | U | 18 | U | NC | Q | 6010C |
| Iron | 29 | J | 147 | J | NC | D | 6010C |
| Lead | 5.0 | U | 25 | U | NC | | 6010C |
| Magnesium | 25 | U | 130 | U | NC | | 6010C |
| Manganese | 0.69 | J | 1.70 | J | NC | Q D | 6010C |
| Molybdenum | 7.0 | U | 35 | U | NC | | 6010C |
| Nickel | 3.0 | U | 15 | U | NC | | 6010C |
| Potassium | 250 | U | 1300 | U | NC | | 6010C |
| Selenium | 12 | U | 60 | U | NC | | 6010C |
| Silver | 2.0 | U | 10 | U | NC | | 6010C |
| Sodium | 250 | U | 1300 | U | NC | | 6010C |
| Thallium | 12 | U | 60 | U | NC | | 6010C |
| Vanadium | 2.5 | U | 13 | U | NC | Q | 6010C |
| Zinc | 13 | U | 65 | U | NC | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver  Job Number: 280-42039-1

SDG Number:

Matrix: Water  Instrument ID: MT_025

Method: 6010C  DL Date: 02/23/2011 08:45

Prep Method: 3010A

| Analyte | Wavelength/ Mass | LOQ (ug/L) | DL (ug/L) |
|---|---|---|---|
| Iron | 259.9 | 100 | 22 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG Number:

Matrix: Water Instrument ID: MT_025

Method: 6010C XMDL Date: 02/23/2011 08:46

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Iron | | 100 | 22 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver  Job Number: 280-42039-1

SDG Number:

Matrix: Water  Instrument ID: MT_026

Method: 6010C  DL Date: 02/23/2011 08:45

Prep Method: 3010A

| Analyte | Wavelength/ Mass | LOQ (ug/L) | DL (ug/L) |
|---|---|---|---|
| Aluminum | 167 | 300 | 18 |
| Antimony | 206.8 | 20 | 3.14 |
| Arsenic | 189 | 25 | 4.41 |
| Barium | 455.4 | 10 | 0.576 |
| Beryllium | 313 | 1.5 | 0.474 |
| Boron | 208.9 | 100 | 4.37 |
| Cadmium | 228.8 | 5 | 0.452 |
| Calcium | 317.9 | 1000 | 34.5 |
| Chromium | 205.5 | 15 | 0.663 |
| Cobalt | 228.6 | 15 | 1.23 |
| Copper | 324.7 | 15 | 1.36 |
| Lead | 220.3 | 15 | 2.61 |
| Magnesium | 279 | 500 | 10.7 |
| Manganese | 257.6 | 10 | 0.253 |
| Molybdenum | 202 | 30 | 3.13 |
| Nickel | 231.6 | 40 | 1.29 |
| Potassium | 766.4 | 3000 | 237 |
| Selenium | 196 | 22 | 4.86 |
| Silver | 328 | 15 | 0.933 |
| Sodium | 589.5 | 5000 | 91.6 |
| Thallium | 190.8 | 40 | 4.91 |
| Vanadium | 292.4 | 15 | 1.11 |
| Zinc | 206.2 | 150 | 4.53 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG Number:

Matrix: Water Instrument ID: MT_026

Method: 6010C XMDL Date: 02/23/2011 08:46

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Aluminum | | 100 | 18 |
| Antimony | | 10 | 3.14 |
| Arsenic | | 15 | 4.41 |
| Barium | | 10 | 0.576 |
| Beryllium | | 1 | 0.474 |
| Boron | | 100 | 4.37 |
| Cadmium | | 5 | 0.452 |
| Calcium | | 200 | 34.5 |
| Chromium | | 10 | 0.663 |
| Cobalt | | 5 | 1.23 |
| Copper | | 15 | 1.36 |
| Lead | | 9 | 2.61 |
| Magnesium | | 200 | 10.7 |
| Manganese | | 10 | 0.253 |
| Molybdenum | | 20 | 3.13 |
| Nickel | | 40 | 1.29 |
| Potassium | | 3000 | 237 |
| Selenium | | 15 | 4.86 |
| Silver | | 10 | 0.933 |
| Sodium | | 1000 | 91.6 |
| Thallium | | 15 | 4.91 |
| Vanadium | | 10 | 1.11 |
| Zinc | | 20 | 4.53 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG Number:

Matrix: Solid Instrument ID: MT_026

Method: 6010C DL Date: 03/01/2011 13:28

Prep Method: 3050B

| Analyte | Wavelength/ Mass | LOQ (mg/Kg) | DL (mg/Kg) |
|---|---|---|---|
| Aluminum | 167 | 50 | 1.55 |
| Antimony | 206.8 | 2 | 0.38 |
| Arsenic | 189 | 2.5 | 0.66 |
| Barium | 455.4 | 2 | 0.076 |
| Beryllium | 313 | 0.5 | 0.033 |
| Boron | 208.9 | 10 | 0.98 |
| Cadmium | 228.8 | 0.5 | 0.041 |
| Calcium | 317.9 | 100 | 14.1 |
| Chromium | 205.5 | 3.5 | 0.058 |
| Cobalt | 228.6 | 1 | 0.1 |
| Copper | 324.7 | 5 | 0.217 |
| Iron | 259.9 | 80 | 3.8 |
| Lead | 220.3 | 0.9 | 0.27 |
| Magnesium | 279 | 30 | 3.7 |
| Manganese | 257.6 | 4.5 | 0.1 |
| Molybdenum | 202 | 2.5 | 0.26 |
| Nickel | 231.6 | 4 | 0.123 |
| Potassium | 766.4 | 300 | 41 |
| Selenium | 196 | 3 | 0.86 |
| Silver | 328 | 1.5 | 0.16 |
| Sodium | 589.5 | 500 | 59 |
| Thallium | 190.8 | 3 | 0.65 |
| Vanadium | 292.4 | 2 | 0.094 |
| Zinc | 206.2 | 8 | 0.398 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver  Job Number: 280-42039-1

SDG Number:

Matrix: Solid  Instrument ID: MT_026

Method: 6010C  XMDL Date: 03/01/2011 13:28

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Aluminum | | 100 | 18 |
| Antimony | | 10 | 3.14 |
| Arsenic | | 15 | 4.41 |
| Barium | | 10 | 0.576 |
| Beryllium | | 1 | 0.474 |
| Boron | | 100 | 4.37 |
| Cadmium | | 5 | 0.452 |
| Calcium | | 200 | 3.45 |
| Chromium | | 10 | 0.663 |
| Cobalt | | 5 | 1.23 |
| Copper | | 15 | 1.36 |
| Iron | | 100 | 22 |
| Lead | | 9 | 2.61 |
| Magnesium | | 200 | 10.7 |
| Manganese | | 10 | 0.253 |
| Molybdenum | | 20 | 3.13 |
| Nickel | | 40 | 1.29 |
| Potassium | | 3000 | 237 |
| Selenium | | 15 | 4.86 |
| Silver | | 10 | 0.933 |
| Sodium | | 1000 | 91.6 |
| Thallium | | 15 | 4.91 |
| Vanadium | | 10 | 1.11 |
| Zinc | | 20 | 4.53 |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 12/27/2012

| Analyte | Wave Length | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 167.079 | | | | | | | | | | | | | 0.000896 | |
| Aluminum | 309.271 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | 0.000008 | | | | | | -0.000001 | | | 0.014097 | | 0.000030 | |
| Arsenic | 189.042 | | -0.000018 | | | | | | 0.000006 | | | -0.005433 | | -0.000031 | |
| Barium | 455.403 | | | | | | | | | | | | | | |
| Beryllium | 313.042 | | | | | | | | | | | | | | |
| Bismuth | 223.061 | | -0.000018 | | | | | | | | | 0.001941 | | 0.000080 | |
| Boron | 208.959 | | | | | | | | | | | | | | |
| Cadmium | 228.802 | | | 0.001390 | | | | | | | 0.000007 | | | | |
| Calcium | 317.933 | | | | | | | | | | 0.001359 | | | | |
| Chromium | 205.552 | | | | | | -0.000724 | | | | | | | -0.000010 | |
| Cobalt | 228.616 | | | | | | | | | | | -0.000046 | | | |
| Copper | 324.754 | | | | | | | | | | | | | | |
| Iron | 259.940 | | | | | | | | | | 0.070287 | | | | |
| Iron | 271.441 | | | | | | | | | | 0.070287 | | | | |
| Lead | 220.353 | | -0.000057 | | | | | | -0.000003 | | -0.000349 | | 0.000199 | 0.000020 | |
| Lithium | 670.784 | | | | | | | | 0.000005 | | | | | | |
| Magnesium | 279.079 | | | | | | | | | | | | | -0.000315 | |
| Manganese | 257.610 | | 0.000001 | | | | | | | | | | | 0.000010 | |
| Molybdenum | 202.030 | | -0.000002 | | | | | | | | | | | | |
| Nickel | 231.604 | | | | | | | | | | -0.000344 | | | 0.000011 | |
| Phosphorus | 178.284 | | 0.000026 | | | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | | -0.000006 | | | | | | -0.000003 | | | | | -0.000013 | |
| Silicon | 288.158 | | | | | | | | | | | -0.010218 | | | |
| Silver | 328.068 | | | | | | | | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | 0.000049 | | | | | | |
| Sulfur | 182.034 | | -0.000049 | | | | | | | | | | | | |

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 12/27/2012

| Analyte | Wave Length | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | 0.000004 | | | | | | | | 0.001502 | 0.000171 | | | |
| Thorium | 283.730 | | | | | | | | | | | -0.000153 | | 0.000792 | |
| Tin | 189.989 | | | | | | | | | | | | | | |
| Titanium | 334.904 | | | | | | | | 0.000005 | | | 0.000178 | | | |
| Uranium | 370.152 | | | | 0.001088 | | | | -0.000005 | | | -0.001869 | | -0.000284 | |
| Vanadium | 292.402 | | | | | | | | | | | -0.002618 | | -0.000032 | |
| Zinc | 206.200 | | 0.000009 | | | | | -0.000455 | | | | -0.000368 | | | |
| Zirconium | 339.198 | | | | | | | | | | | | | -0.000032 | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 12/27/2012

| Analyte | Wave Length | Li | Mg | Mn | Mo | Na | Ni | Pb | S | Sb | Se | Si | SiO2 | Sn | Sr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 309.271 | | 0.001655 | | | | | | | | | | | | |
| Aluminum | 167.079 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | | | -0.021086 | | -0.000142 | | | | | -0.000032 | | -0.005915 | |
| Arsenic | 189.042 | | | | 0.001328 | | | | | | | | | | |
| Barium | 455.403 | | | | | | | | | | | | | | |
| Beryllium | 313.042 | | | | | | | | | | | | | | |
| Bismuth | 223.061 | | | | | | | | | | | | | -0.001095 | |
| Boron | 208.959 | | | | 0.056228 | | | | | | | | | | |
| Cadmium | 228.802 | | | | | | | | | | | | | | |
| Calcium | 317.933 | | | | | | | | | | | | | | |
| Chromium | 205.552 | | | | 0.000081 | | 0.000028 | | | | | | | | |
| Cobalt | 228.616 | | | -0.000001 | -0.0000494 | | 0.000134 | | | | | | | | |
| Copper | 324.754 | | | | 0.000237 | | | | | | | | | | |
| Iron | 259.940 | | -0.000894 | | | | | | | | | | | | |
| Iron | 271.441 | | -0.000894 | | | | | | | | | | | | |
| Lead | 220.353 | | | | -0.001538 | | 0.000086 | | | | | 0.000086 | | | |
| Lithium | 670.784 | | 0.000007 | | | | | | | | | | | | |
| Magnesium | 279.079 | | | -0.000726 | -0.000718 | | | | | | | | | | |
| Manganese | 257.610 | | | | | | | | | | | | | | |
| Molybdenum | 202.030 | | | | | | | | | | | | | | |
| Nickel | 231.604 | | | | -0.000323 | | | | | | | | | | |
| Phosphorus | 178.284 | | | | -0.002554 | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | | | 0.000679 | | | | | | | | | | | |
| Silicon | 288.158 | | | | -0.006556 | | | | | | | | | | |
| Silver | 328.068 | | | 0.000223 | 0.000024 | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | | | | | | | |
| Sulfur | 182.034 | | | 0.005172 | -0.000250 | | | | | | | | | | |

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 12/27/2012

| Analyte | Wave Length | Li | Mg | Mn | Mo | Na | Ni | Pb | S | Sb | Se | Si | SiO2 | Sn | Sr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | | 0.001023 | | | | | | | | | | | |
| Thorium | 283.730 | | | | 0.000056 | | 0.000237 | | | | | | | | |
| Tin | 189.989 | | | | | | | | | | | | | | |
| Titanium | 334.904 | | 0.000001 | | 0.000535 | | | | | | | | | | |
| Uranium | 370.152 | | | | | | | | | | | | | | |
| Vanadium | 292.402 | | | -0.000145 | -0.000049 | | | | | | | | | | |
| Zinc | 206.200 | | | | 0.000176 | | | | | | | | | | |
| Zirconium | 339.198 | | | | 0.000859 | | | | | | | | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 12/27/2012

| Analyte | Wave Length | Th | Ti | Tl | U | V | Zn | Zr | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 167.079 | | | | | | | | | | | | | | |
| Aluminum | 309.271 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | 0.000259 | | -0.000082 | -0.000160 | | -0.001216 | | | | | | | |
| Arsenic | 189.042 | -0.000627 | | | | | | | | | | | | | |
| Barium | 455.403 | | | | | | | 0.000796 | | | | | | | |
| Beryllium | 313.042 | | -0.000068 | | | 0.000184 | | | | | | | | | |
| Bismuth | 223.061 | | -0.146407 | | | | | | | | | | | | |
| Boron | 208.959 | | | | | | | | | | | | | | |
| Cadmium | 228.802 | | | | -0.000061 | | | | | | | | | | |
| Calcium | 317.933 | -0.002690 | | | | | | | | | | | | | |
| Chromium | 205.552 | 0.000009 | | | -0.000025 | | | | | | | | | | |
| Cobalt | 228.616 | | 0.002305 | | 0.000120 | | | | | | | | | | |
| Copper | 324.754 | 0.002197 | -0.000457 | | 0.000497 | -0.000316 | | -0.000487 | | | | | | | |
| Iron | 259.940 | | | | | -0.209500 | | | | | | | | | |
| Iron | 271.441 | | | | | -0.209500 | | | | | | | | | |
| Lead | 220.353 | | -0.000136 | | 0.000946 | | | -0.000255 | | | | | | | |
| Lithium | 670.784 | | | | | | | | | | | | | | |
| Magnesium | 279.079 | -0.035356 | -0.000333 | | -0.007705 | | | | | | | | | | |
| Manganese | 257.610 | -0.000456 | | | 0.000082 | | | | | | | | | | |
| Molybdenum | 202.030 | | | | -0.000106 | | | | | | | | | | |
| Nickel | 231.604 | | | | | | | | | | | | | | |
| Phosphorus | 178.284 | | | | | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | -0.000015 | | -0.000481 | -0.000220 | | | | | | | | | | |
| Silicon | 288.158 | | | | | | | | | | | | | | |
| Silver | 328.068 | 0.000793 | | | 0.000972 | | | 0.008006 | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | | | | | | | |
| Sulfur | 182.034 | | | | | 0.001800 | | | | | | | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 12/27/2012

| Analyte | Wave Length | Th | Ti | Tl | U | V | Zn | Zr | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | -0.000388 | | -0.000304 | -0.004214 | | | | | | | | | |
| Thorium | 283.730 | | | | 0.021118 | | | 0.020236 | | | | | | | |
| Tin | 189.989 | | -0.002933 | | | | | | | | | | | | |
| Titanium | 334.904 | 0.003659 | | | -0.000391 | | | | | | | | | | |
| Uranium | 370.152 | | 0.005761 | | | | | | | | | | | | |
| Vanadium | 292.402 | 0.001754 | 0.000548 | | -0.000267 | | | | | | | | | | |
| Zinc | 206.200 | | | | | | | | | | | | | | |
| Zirconium | 339.198 | 0.025996 | | | -0.000214 | | | | | | | | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 01/15/2013

| Analyte | Wave Length | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 167.079 | | | | | | | | | | | | | 0.000845 | |
| Aluminum | 309.271 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | -0.000029 | | | | | | -0.000008 | | | 0.016611 | | 0.000017 | |
| Arsenic | 189.042 | | 0.000011 | | | | | | | | | -0.002115 | | | |
| Barium | 455.403 | | | | | | | | | | | | | | |
| Beryllium | 313.042 | | | | | | | | | | | | | | |
| Bismuth | 223.061 | | | | | | | | | | -0.002850 | | | 0.000181 | |
| Boron | 208.959 | | | | | | | | | | | | | | |
| Cadmium | 228.802 | | | 0.004356 | | | | | | | 0.000016 | | | | |
| Calcium | 317.933 | | | | | | | | | | | | | | |
| Chromium | 205.552 | | | | | | -0.002069 | | | | | | | | |
| Cobalt | 228.616 | | | | | -0.000228 | | | | | | | | | |
| Copper | 324.754 | | | | | | | | | | | | | | |
| Iron | 259.940 | | | | | | | | | | 0.109000 | | | | |
| Iron | 271.441 | | | | | | | | | | 0.109000 | | | | |
| Lead | 220.353 | | -0.000051 | | | | | | | | | | 0.000046 | 0.000022 | |
| Lithium | 670.784 | | | | | | | | 0.000011 | | | | | | |
| Magnesium | 279.079 | | | | | | | | | | | | | | |
| Manganese | 257.610 | | | | | | | | | | | | | | |
| Molybdenum | 202.030 | | | | | | | | | | | | | | |
| Nickel | 231.604 | | | | | | | | | | | | | | |
| Phosphorus | 178.284 | | | | | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | | 0.000005 | | | | | | 0.000001 | | | | | -0.000005 | |
| Silicon | 288.158 | | | | | | | | | | | 0.000027 | | | |
| Silver | 328.068 | | | | | | | | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | 0.000010 | | | | | | |
| Sulfur | 182.034 | | | | | | | | | | | | | | |

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 01/15/2013

| Analyte | Wave Length | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | | | | | | | | | 0.004470 | 0.000241 | | | |
| Thorium | 283.730 | 0.000012 | -0.000017 | | | | | | | -0.000171 | | -0.000233 | | 0.000779 | |
| Tin | 189.989 | | | | | | | | | | | | | | |
| Titanium | 334.904 | | | | | | | | | | | 0.000169 | | | |
| Uranium | 370.152 | | | | 0.001355 | | | | | | | -0.002090 | | -0.001257 | |
| Vanadium | 292.402 | | | | | | | | | | | -0.006725 | | | |
| Zinc | 206.200 | | | | | | | | | | | -0.000639 | | | |
| Zirconium | 339.198 | | | | | | | | | | | | | -0.000026 | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 01/15/2013

| Analyte | Wave Length | Li | Mg | Mn | Mo | Na | Ni | P | Pb | Sb | Se | Si | SiO2 | Sn | Sr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 309.271 | | 0.003939 | | | | | | | | | | | | |
| Aluminum | 167.079 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | | | -0.001526 | | | | | | | | | | |
| Arsenic | 189.042 | | | | -0.000564 | | | | | | | | | | |
| Barium | 455.403 | | | | | | | | | | | | | | |
| Beryllium | 313.042 | | | | | | | | | | | | | | |
| Bismuth | 223.061 | | | | | | | | | | | | | | |
| Boron | 208.959 | | | | 0.021524 | | | | | | | | | | |
| Cadmium | 228.802 | | | | | | | | | | | | | | |
| Calcium | 317.933 | | | | | | | | | | | | | | |
| Chromium | 205.552 | | | | 0.000100 | | 0.000046 | | | | | | | | |
| Cobalt | 228.616 | | | | -0.001195 | | 0.000049 | | | | | | | | |
| Copper | 324.754 | | | | | | | | | | | | | | |
| Iron | 259.940 | | | | | | | | | | | | | | |
| Iron | 271.441 | | | | | | | | | | | | | | |
| Lead | 220.353 | | 0.000001 | | -0.001630 | | 0.000200 | | | | 0.000013 | 0.000732 | | | |
| Lithium | 670.784 | | 0.000008 | | | | | | | | | | | | |
| Magnesium | 279.079 | | | | | | | | | | | | | | |
| Manganese | 257.610 | | | | | | | | | | | | | | |
| Molybdenum | 202.030 | | | | | | | | | | | | | | |
| Nickel | 231.604 | | | | | | | | | | | | | | |
| Phosphorus | 178.284 | | | | | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | | | 0.000468 | | | | | | | | | | | |
| Silicon | 288.158 | | | | -0.005890 | | | | | | | | | 0.001650 | |
| Silver | 328.068 | | | | -0.000308 | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | | | | | | | |
| Sulfur | 182.034 | | | 0.005840 | 0.000664 | | | | | | | | | | |

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 01/15/2013

| Analyte | Wave Length | Li | Mg | Mn | Mo | Na | Ni | P | Pb | Sb | Se | Si | SiO2 | Sn | Sr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | | 0.000720 | -0.000286 | | | | | | | | | | |
| Thorium | 283.730 | | -0.000002 | | 0.000415 | | 0.000139 | | | | | | | | |
| Tin | 189.989 | | | | | | | | | | | | | | |
| Titanium | 334.904 | | 0.000009 | | 0.000462 | | | | | | | | | | |
| Uranium | 370.152 | | | | 0.001220 | | | | | | | | | | |
| Vanadium | 292.402 | | | -0.001842 | | | | | | | | | | | |
| Zinc | 206.200 | | | | | | | | | | | | | | |
| Zirconium | 339.198 | | | | 0.000494 | | | | | | | 0.000018 | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 01/15/2013

| Analyte | Wave Length | Th | Ti | Tl | U | V | Zn | Zr | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 167.079 | | | | | | | | | | | | | | |
| Aluminum | 309.271 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | | | -0.002056 | | | -0.000746 | | | | | | | |
| Arsenic | 189.042 | | | | | | | | | | | | | | |
| Barium | 455.403 | | | | | | | 0.000819 | | | | | | | |
| Beryllium | 313.042 | | -0.000233 | | | | | | | | | | | | |
| Bismuth | 223.061 | 0.000544 | -0.034925 | | -0.005205 | | | | | | | | | | |
| Boron | 208.959 | | | | | | | | | | | | | | |
| Cadmium | 228.802 | | | | | | | | | | | | | | |
| Calcium | 317.933 | -0.001874 | | | | | | | | | | | | | |
| Chromium | 205.552 | | | | 0.000035 | | | | | | | | | | |
| Cobalt | 228.616 | | 0.001858 | | | | | | | | | | | | |
| Copper | 324.754 | 0.004488 | 0.000383 | | | | | -0.001706 | | | | | | | |
| Iron | 259.940 | | | | | | | | | | | | | | |
| Iron | 271.441 | | | | | -0.456000 | | -0.128890 | | | | | | | |
| Lead | 220.353 | | -0.000765 | | 0.000568 | | | | | | | | | | |
| Lithium | 670.784 | | | | | | | | | | | | | | |
| Magnesium | 279.079 | -0.022610 | | | -0.006604 | | | | | | | | | | |
| Manganese | 257.610 | | | | | | | | | | | | | | |
| Molybdenum | 202.030 | | | | | | | | | | | | | | |
| Nickel | 231.604 | | | | | | | | | | | | | | |
| Phosphorus | 178.284 | | | | | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | -0.000475 | | | -0.001609 | | | | | | | | | | |
| Silicon | 288.158 | | | | | | | | | | | | | | |
| Silver | 328.068 | -0.000152 | | | 0.001560 | | | 0.005867 | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | | | | | | | |
| Sulfur | 182.034 | | | | | | | | | | | | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 01/15/2013

| Analyte | Wave Length | Th | Ti | Tl | U | V | Zn | Zr | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | -0.000307 | | -0.000656 | 0.000766 | | | | | | | | | |
| Thorium | 283.730 | | | | 0.022130 | | | 0.004463 | | | | | | | |
| Tin | 189.989 | | -0.002453 | | | | | | | | | | | | |
| Titanium | 334.904 | 0.003087 | | | -0.000020 | | | | | | | | | | |
| Uranium | 370.152 | 0.007397 | 0.006150 | | | | | | | | | | | | |
| Vanadium | 292.402 | 0.000907 | 0.000902 | | -0.000553 | | | | | | | | | | |
| Zinc | 206.200 | | | | | | | | | | | | | | |
| Zirconium | 339.198 | 0.043328 | | | | | | | | | | | | | |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-42039-1

SDG No.:

Instrument ID: MT_025 Date: 04/15/2013 12:57

| Analyte | Integ. Time (Sec.) | Concentration (mg/L) | Method |
|---|---|---|---|
| Iron | | 2000 | 6010C |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-42039-1

SDG No.:

Instrument ID: MT_026 Date: 04/15/2013 12:56

| Analyte | Integ. Time (Sec.) | Concentration (mg/L) | Method |
|---|---|---|---|
| Aluminum | | 1000 | 6010C |
| Antimony | | 50 | 6010C |
| Arsenic | | 50 | 6010C |
| Barium | | 50 | 6010C |
| Beryllium | | 20 | 6010C |
| Boron | | 100 | 6010C |
| Cadmium | | 25 | 6010C |
| Calcium | | 2000 | 6010C |
| Chromium | | 50 | 6010C |
| Cobalt | | 50 | 6010C |
| Copper | | 50 | 6010C |
| Iron | | 2000 | 6010C |
| Lead | | 200 | 6010C |
| Magnesium | | 2000 | 6010C |
| Manganese | | 20 | 6010C |
| Molybdenum | | 20 | 6010C |
| Nickel | | 50 | 6010C |
| Potassium | | 500 | 6010C |
| Selenium | | 50 | 6010C |
| Silver | | 2.5 | 6010C |
| Sodium | | 10000 | 6010C |
| Thallium | | 50 | 6010C |
| Vanadium | | 50 | 6010C |
| Zinc | | 50 | 6010C |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-42039-1

SDG No.:

Instrument ID: MT_026 Date: 04/15/2013 12:57

| Analyte | Integ. Time (Sec.) | Concentration (mg/L) | Method |
|---|---|---|---|
| Aluminum | | 1000 | 6010C |
| Antimony | | 50 | 6010C |
| Arsenic | | 50 | 6010C |
| Barium | | 50 | 6010C |
| Beryllium | | 20 | 6010C |
| Boron | | 100 | 6010C |
| Cadmium | | 25 | 6010C |
| Calcium | | 1000 | 6010C |
| Chromium | | 50 | 6010C |
| Cobalt | | 50 | 6010C |
| Copper | | 50 | 6010C |
| Lead | | 200 | 6010C |
| Magnesium | | 1500 | 6010C |
| Manganese | | 20 | 6010C |
| Molybdenum | | 20 | 6010C |
| Nickel | | 50 | 6010C |
| Potassium | | 500 | 6010C |
| Selenium | | 50 | 6010C |
| Silver | | 2.5 | 6010C |
| Sodium | | 10000 | 6010C |
| Thallium | | 50 | 6010C |
| Vanadium | | 50 | 6010C |
| Zinc | | 50 | 6010C |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Prep Method: 3050B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 280-173661/1-A | 05/10/2013 13:00 | 173661 | 1.06 | | 100 |
| LCS 280-173661/2-A | 05/10/2013 13:00 | 173661 | 1.04 | | 100 |
| 280-42039-1 | 05/10/2013 13:00 | 173661 | 1.16 | | 100 |
| 280-42039-2 | 05/10/2013 13:00 | 173661 | 1.12 | | 100 |
| 280-42039-3 | 05/10/2013 13:00 | 173661 | 1.07 | | 100 |
| 280-42039-4 | 05/10/2013 13:00 | 173661 | 1.07 | | 100 |
| 280-42039-5 | 05/10/2013 13:00 | 173661 | 1.04 | | 100 |
| 280-42039-6 | 05/10/2013 13:00 | 173661 | 1.03 | | 100 |
| 280-42039-7 | 05/10/2013 13:00 | 173661 | 1.10 | | 100 |
| 280-42039-8 | 05/10/2013 13:00 | 173661 | 1.14 | | 100 |
| 280-42039-9 | 05/10/2013 13:00 | 173661 | 1.20 | | 100 |
| 280-42039-10 | 05/10/2013 13:00 | 173661 | 1.06 | | 100 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Prep Method: 3010A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 280-174378/1-A | 05/17/2013 07:30 | 174378 | | 50 | 50 |
| LCS 280-174378/2-A | 05/17/2013 07:30 | 174378 | | 50 | 50 |
| 280-42039-11 | 05/17/2013 07:30 | 174378 | | 50 | 50 |
| 280-42039-11 MS | 05/17/2013 07:30 | 174378 | | 50 | 50 |
| 280-42039-11 MSD | 05/17/2013 07:30 | 174378 | | 50 | 50 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Prep Method: 3010A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 280-175463/1-A | 05/23/2013 07:00 | 175463 | | 50 | 50 |
| LCS 280-175463/2-A | 05/23/2013 07:00 | 175463 | | 50 | 50 |
| 280-42039-11 | 05/23/2013 07:00 | 175463 | | 50 | 50 |
| 280-42039-11 MS | 05/23/2013 07:00 | 175463 | | 50 | 50 |
| 280-42039-11 MSD | 05/23/2013 07:00 | 175463 | | 50 | 50 |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 05/23/2013 13:33 End Date: 05/23/2013 17:19

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Fe | | | | | | | | | | | | | | | | | | | |
| ICIS 280-175815/1 | 1 | | 13:33 | X | | | | | | | | | | | | | | | | | | | |
| IC 280-175815/2 | | | 13:36 | X | | | | | | | | | | | | | | | | | | | |
| IC 280-175815/3 | | | 13:38 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:42 | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-175815/6 | 1 | | 13:45 | X | | | | | | | | | | | | | | | | | | | |
| ICV 280-175815/7 | 1 | | 13:49 | X | | | | | | | | | | | | | | | | | | | |
| ICVL 280-175815/8 | 1 | | 13:53 | X | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175815/9 | | | 13:57 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175815/10 | | | 14:00 | | | | | | | | | | | | | | | | | | | | |
| ICB 280-175815/11 | 1 | | 14:02 | X | | | | | | | | | | | | | | | | | | | |
| CRI 280-175815/12 | 1 | | 14:06 | X | | | | | | | | | | | | | | | | | | | |
| CRI 280-175815/13 | | | 14:17 | | | | | | | | | | | | | | | | | | | | |
| CRI 280-175815/14 | 1 | | 14:27 | | | | | | | | | | | | | | | | | | | | |
| ICSA 280-175815/15 | 1 | | 14:34 | X | | | | | | | | | | | | | | | | | | | |
| ICSAB 280-175815/16 | 1 | | 14:37 | X | | | | | | | | | | | | | | | | | | | |
| LRA 280-175815/17 | | | 14:40 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175815/18 | | | 14:43 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175815/19 | | | 14:45 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175815/20 | | | 14:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:50 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175815/22 | 1 | | 16:12 | X | | | | | | | | | | | | | | | | | | | |
| CCV 280-175815/23 | 1 | | 16:14 | X | | | | | | | | | | | | | | | | | | | |
| CCB 280-175815/24 | 1 | | 16:17 | X | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175815/25 | 1 | | 16:19 | X | | | | | | | | | | | | | | | | | | | |
| MB 280-175463/1-A | 1 | T | 16:21 | X | | | | | | | | | | | | | | | | | | | |
| LCS 280-175463/2-A | 1 | T | 16:23 | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-11 | 1 | T | 16:25 | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-11 SD | 5 | T | 16:28 | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-11 MS | 1 | T | 16:30 | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-11 MSD | 1 | T | 16:32 | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-11 PDS | 1 | T | 16:34 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:41 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175815/36 | 1 | | 16:43 | X | | | | | | | | | | | | | | | | | | | |
| CCV 280-175815/37 | 1 | | 16:45 | X | | | | | | | | | | | | | | | | | | | |
| CCB 280-175815/38 | 1 | | 16:48 | X | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175815/39 | 1 | | 16:50 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:57 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 05/23/2013 13:33 End Date: 05/23/2013 17:19

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Fe | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:10 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175815/49 | | | 17:13 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175815/50 | | | 17:15 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175815/51 | | | 17:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:19 | | | | | | | | | | | | | | | | | | | | |

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | As | B | Ba | Be | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Mo | Ni | Pb | Sb | Se |
| ICIS 280-174408/1 | 1 | | 12:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| IC 280-174408/2 | | | 12:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| IC 280-174408/3 | | | 12:07 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 12:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:12 | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-174408/6 | 1 | | 12:15 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICV 280-174408/7 | 1 | | 12:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICVL 280-174408/8 | 1 | | 12:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVH 280-174408/9 | | | 12:22 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/10 | | | 12:25 | | | | | | | | | | | | | | | | | | | | |
| ICB 280-174408/11 | 1 | | 12:27 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CRI 280-174408/12 | 1 | | 12:29 | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CRI 280-174408/13 | 1 | | 12:35 | | | X | | | | | | | | | | | | | | | | | X |
| ICSA 280-174408/14 | 1 | | 12:39 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICSAB 280-174408/15 | 1 | | 12:42 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LRA 280-174408/16 | | | 12:45 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/17 | | | 12:48 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/18 | | | 12:50 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/19 | | | 12:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:55 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/21 | | | 07:43 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/22 | | | 07:46 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/23 | | | 07:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:57 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:14 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/35 | | | 08:17 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/36 | | | 08:19 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/37 | | | 08:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:34 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | As | B | Ba | Be | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Mo | Ni | Pb | Sb | Se |
| ZZZZZZ | | | 08:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:46 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/48 | | | 08:48 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/49 | | | 08:51 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/50 | | | 08:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:20 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/62 | | | 09:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/63 | | | 09:25 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/64 | | | 09:28 | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174408/65 | | | 09:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:55 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/75 | 1 | | 09:57 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-174408/76 | 1 | | 10:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-174408/77 | 1 | | 10:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-174408/78 | 1 | | 10:04 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| MB 280-173661/1-A | 1 | T | 10:07 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LCS 280-173661/2-A | 1 | T | 10:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 10:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:19 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | As | B | Ba | Be | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Mo | Ni | Pb | Sb | Se |
| ZZZZZZ | | | 10:21 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/86 | 1 | | 10:24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-174408/87 | 1 | | 10:26 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-174408/88 | 1 | | 10:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-174408/89 | 1 | | 10:31 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 10:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:43 | | | | | | | | | | | | | | | | | | | | |
| 280-42039-1 | 1 | T | 10:45 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-2 | 1 | T | 10:47 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-3 | 1 | T | 10:50 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-4 | 1 | T | 10:52 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| CCVH 280-174408/99 | 1 | | 10:55 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-174408/100 | 1 | | 10:57 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-174408/101 | 1 | | 10:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-174408/102 | 1 | | 11:02 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-5 | 1 | T | 11:04 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-6 | 1 | T | 11:07 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-7 | 1 | T | 11:09 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-8 | 1 | T | 11:12 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-9 | 1 | T | 11:14 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| 280-42039-10 | 1 | T | 11:16 | X | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X |
| CCVH 280-174408/109 | 1 | | 11:19 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-174408/110 | 1 | | 11:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-174408/111 | 1 | | 11:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-174408/112 | 1 | | 11:26 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 11:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:47 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/122 | | | 11:49 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/123 | | | 11:51 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/124 | | | 11:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:59 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | As | B | Ba | Be | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Mo | Ni | Pb | Sb | Se |
| ZZZZZZ | | | 12:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:05 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:08 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/131 | | | 12:10 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/132 | | | 12:13 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/133 | | | 12:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:23 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:30 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/141 | | | 12:39 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/142 | | | 12:42 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/143 | | | 12:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:46 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Tl | V | | | | | | | | | | | | | | | | | | |
| ICIS 280-174408/1 | 1 | | 12:02 | X | X | | | | | | | | | | | | | | | | | | |
| IC 280-174408/2 | | | 12:05 | X | X | | | | | | | | | | | | | | | | | | |
| IC 280-174408/3 | | | 12:07 | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:12 | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-174408/6 | 1 | | 12:15 | X | X | | | | | | | | | | | | | | | | | | |
| ICV 280-174408/7 | 1 | | 12:18 | X | X | | | | | | | | | | | | | | | | | | |
| ICVL 280-174408/8 | 1 | | 12:20 | X | X | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/9 | | | 12:22 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/10 | | | 12:25 | | | | | | | | | | | | | | | | | | | | |
| ICB 280-174408/11 | 1 | | 12:27 | X | X | | | | | | | | | | | | | | | | | | |
| CRI 280-174408/12 | 1 | | 12:29 | X | X | | | | | | | | | | | | | | | | | | |
| CRI 280-174408/13 | 1 | | 12:35 | | | | | | | | | | | | | | | | | | | | |
| ICSA 280-174408/14 | 1 | | 12:39 | X | X | | | | | | | | | | | | | | | | | | |
| ICSAB 280-174408/15 | 1 | | 12:42 | X | X | | | | | | | | | | | | | | | | | | |
| LRA 280-174408/16 | | | 12:45 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/17 | | | 12:48 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/18 | | | 12:50 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/19 | | | 12:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:55 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/21 | | | 07:43 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/22 | | | 07:46 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/23 | | | 07:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:57 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:14 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/35 | | | 08:17 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/36 | | | 08:19 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/37 | | | 08:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:34 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
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| | | | | Tl | V | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:46 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/48 | | | 08:48 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/49 | | | 08:51 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/50 | | | 08:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:20 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/62 | | | 09:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/63 | | | 09:25 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/64 | | | 09:28 | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174408/65 | | | 09:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:55 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/75 | 1 | | 09:57 | X | X | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/76 | 1 | | 10:00 | X | X | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/77 | 1 | | 10:02 | X | X | | | | | | | | | | | | | | | | | | |
| CCVL 280-174408/78 | 1 | | 10:04 | X | X | | | | | | | | | | | | | | | | | | |
| MB 280-173661/1-A | 1 | T | 10:07 | X | X | | | | | | | | | | | | | | | | | | |
| LCS 280-173661/2-A | 1 | T | 10:09 | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:19 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Tl | V | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:21 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/86 | 1 | | 10:24 | X | X | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/87 | 1 | | 10:26 | X | X | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/88 | 1 | | 10:28 | X | X | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174408/89 | 1 | | 10:31 | X | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:43 | | | | | | | | | | | | | | | | | | | | | |
| 280-42039-1 | 1 | T | 10:45 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-2 | 1 | T | 10:47 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-3 | 1 | T | 10:50 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-4 | 1 | T | 10:52 | X | X | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/99 | 1 | | 10:55 | X | X | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/100 | 1 | | 10:57 | X | X | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/101 | 1 | | 10:59 | X | X | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174408/102 | 1 | | 11:02 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-5 | 1 | T | 11:04 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-6 | 1 | T | 11:07 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-7 | 1 | T | 11:09 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-8 | 1 | T | 11:12 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-9 | 1 | T | 11:14 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-42039-10 | 1 | T | 11:16 | X | X | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/109 | 1 | | 11:19 | X | X | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/110 | 1 | | 11:21 | X | X | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/111 | 1 | | 11:23 | X | X | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174408/112 | 1 | | 11:26 | X | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:47 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/122 | | | 11:49 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/123 | | | 11:51 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/124 | | | 11:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:56 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:59 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/14/2013 12:02 End Date: 05/15/2013 12:46

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Tl | V | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:08 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/131 | | | 12:10 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/132 | | | 12:13 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/133 | | | 12:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174408/141 | | | 12:39 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174408/142 | | | 12:42 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174408/143 | | | 12:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:46 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/16/2013 10:31 End Date: 05/16/2013 15:54

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ca | Fe | Na | Zn | | | | | | | | | | | | | | | | | |
| ICIS 280-174753/1 | 1 | | 10:31 | X | X | X | X | | | | | | | | | | | | | | | | | |
| IC 280-174753/2 | | | 10:34 | X | X | X | X | | | | | | | | | | | | | | | | | |
| IC 280-174753/3 | | | 10:36 | X | X | X | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:41 | | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-174753/6 | 1 | | 10:44 | X | X | X | X | | | | | | | | | | | | | | | | | |
| ICV 280-174753/7 | 1 | | 10:46 | X | X | X | X | | | | | | | | | | | | | | | | | |
| ICVL 280-174753/8 | 1 | | 10:49 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/9 | | | 10:51 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/10 | | | 10:54 | | | | | | | | | | | | | | | | | | | | | |
| ICB 280-174753/11 | 1 | | 10:56 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CRI 280-174753/12 | 1 | | 10:58 | X | X | X | | | | | | | | | | | | | | | | | | |
| ICSA 280-174753/13 | 1 | | 11:01 | X | X | X | X | | | | | | | | | | | | | | | | | |
| ICSAB 280-174753/14 | 1 | | 11:04 | X | X | X | X | | | | | | | | | | | | | | | | | |
| LRA 280-174753/15 | | | 11:07 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/16 | | | 11:10 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/17 | | | 11:12 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174753/18 | | | 11:14 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/19 | | | 11:17 | | | | | | | | | | | | | | | | | | | | | |
| CRI 280-174753/20 | 1 | | 11:19 | | | | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:43 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/31 | | | 11:45 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/32 | | | 11:48 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174753/33 | | | 11:50 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/34 | | | 11:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:02 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:05 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:12 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/16/2013 10:31 End Date: 05/16/2013 15:54

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
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| | | | | Ca | Fe | Na | Zn | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:17 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/45 | | | 12:19 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/46 | | | 12:22 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174753/47 | | | 12:24 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/48 | | | 12:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:41 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:43 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/56 | | | 12:45 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/57 | | | 12:48 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174753/58 | | | 12:50 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/59 | | | 12:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:02 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/64 | | | 13:04 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/65 | | | 13:07 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174753/66 | | | 13:09 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/67 | | | 13:12 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:28 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/75 | | | 13:31 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/76 | | | 13:33 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174753/77 | | | 13:35 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/78 | | | 13:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:45 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:50 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:52 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/16/2013 10:31 End Date: 05/16/2013 15:54

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ca | Fe | Na | Zn | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/85 | 1 | | 13:55 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCV 280-174753/86 | 1 | | 13:57 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCB 280-174753/87 | 1 | | 13:59 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/88 | 1 | | 14:02 | X | X | X | X | | | | | | | | | | | | | | | | | |
| MB 280-173661/1-A | 1 | T | 14:04 | | | X | X | | | | | | | | | | | | | | | | | |
| LCS 280-173661/2-A | 1 | T | 14:07 | | | X | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:22 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/97 | 1 | | 14:24 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCV 280-174753/98 | 1 | | 14:26 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCB 280-174753/99 | 1 | | 14:28 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/100 | 1 | | 14:31 | X | X | X | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:40 | | | | | | | | | | | | | | | | | | | | | |
| 280-42039-1 | 1 | T | 14:43 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-2 | 1 | T | 14:45 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-3 | 1 | T | 14:48 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/108 | 1 | | 14:50 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCV 280-174753/109 | 1 | | 14:52 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCB 280-174753/110 | 1 | | 14:55 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/111 | 1 | | 14:57 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-4 | 1 | T | 15:00 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-5 | 1 | T | 15:02 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-6 | 1 | T | 15:04 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-7 | 1 | T | 15:07 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-8 | 1 | T | 15:09 | X | X | X | X | | | | | | | | | | | | | | | | | |
| 280-42039-9 | 1 | T | 15:12 | X | X | | X | | | | | | | | | | | | | | | | | |
| 280-42039-10 | 1 | T | 15:14 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/119 | 1 | | 15:17 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCV 280-174753/120 | 1 | | 15:19 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCB 280-174753/121 | 1 | | 15:21 | X | X | X | X | | | | | | | | | | | | | | | | | |
| CCVL 280-174753/122 | 1 | | 15:24 | X | X | X | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:33 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/16/2013 10:31 End Date: 05/16/2013 15:54

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ca | Fe | Na | Zn | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:45 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174753/132 | | | 15:47 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174753/133 | | | 15:49 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174753/134 | | | 15:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:54 | | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/17/2013 09:36 End Date: 05/17/2013 14:42

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Na | | | | | | | | | | | | | | | | | | | |
| ICIS 280-174937/1 | 1 | | 09:36 | X | | | | | | | | | | | | | | | | | | | |
| IC 280-174937/2 | | | 09:38 | X | | | | | | | | | | | | | | | | | | | |
| IC 280-174937/3 | | | 09:41 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:45 | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-174937/6 | 1 | | 09:48 | X | | | | | | | | | | | | | | | | | | | |
| ICV 280-174937/7 | 1 | | 09:51 | X | | | | | | | | | | | | | | | | | | | |
| ICVL 280-174937/8 | 1 | | 09:54 | X | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/9 | | | 09:56 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/10 | | | 09:58 | | | | | | | | | | | | | | | | | | | | |
| ICB 280-174937/11 | 1 | | 10:01 | X | | | | | | | | | | | | | | | | | | | |
| CRI 280-174937/12 | 1 | | 10:03 | X | | | | | | | | | | | | | | | | | | | |
| CRI 280-174937/13 | 1 | | 10:09 | | | | | | | | | | | | | | | | | | | | |
| ICSA 280-174937/14 | 1 | | 10:15 | X | | | | | | | | | | | | | | | | | | | |
| ICSAB 280-174937/15 | 1 | | 10:18 | X | | | | | | | | | | | | | | | | | | | |
| LRA 280-174937/16 | | | 10:21 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/17 | | | 10:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/18 | | | 10:26 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/19 | | | 10:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:52 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/30 | | | 10:55 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/31 | | | 10:57 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/32 | | | 10:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:23 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/17/2013 09:36 End Date: 05/17/2013 14:42

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
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| | | | | Na | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:26 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/44 | | | 11:28 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/45 | | | 11:31 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/46 | | | 11:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:57 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:00 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/58 | | | 12:02 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/59 | | | 12:05 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/60 | | | 12:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:34 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/72 | 1 | | 12:37 | X | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/73 | 1 | | 12:39 | X | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/74 | 1 | | 12:41 | X | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174937/75 | 1 | | 12:44 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:58 | | | | | | | | | | | | | | | | | | | | |
| 280-42039-9 | 5 | T | 13:01 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:03 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/84 | 1 | | 13:05 | X | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/17/2013 09:36 End Date: 05/17/2013 14:42

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Na | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/85 | 1 | | 13:08 | X | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/86 | 1 | | 13:10 | X | | | | | | | | | | | | | | | | | | | |
| CCVL 280-174937/87 | 1 | | 13:12 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:30 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/94 | | | 13:33 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/95 | | | 13:35 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/96 | | | 13:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:04 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/106 | | | 14:06 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/107 | | | 14:09 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/108 | | | 14:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:32 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-174937/117 | | | 14:34 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-174937/118 | | | 14:37 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-174937/119 | | | 14:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:42 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/18/2013 08:53 End Date: 05/18/2013 18:22

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | As | Ba | Be | Ca | Cd | Co | Cr | Cu | K | Mg | Mo | Ni | Pb | Sb | Se | Tl | V | Zn |
| ICIS 280-175050/1 | 1 | | 08:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| IC 280-175050/2 | | | 08:56 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| IC 280-175050/3 | | | 08:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 09:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:03 | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-175050/6 | 1 | | 09:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 09:08 | | | | | | | | | | | | | | | | | | | | |
| ICVL 280-175050/8 | 1 | | 09:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVH 280-175050/9 | | | 09:13 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175050/10 | | | 09:15 | | | | | | | | | | | | | | | | | | | | |
| ICB 280-175050/11 | 1 | | 09:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICV 280-175050/12 | 1 | | 09:22 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICV 280-175050/13 | 1 | | 09:24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CRI 280-175050/14 | 1 | | 09:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | |
| CRI 280-175050/15 | 1 | | 09:38 | | | | | | | | | | | | | | | X | | | | | X |
| ICSA 280-175050/16 | 1 | | 09:44 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICSAB 280-175050/17 | 1 | | 09:47 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LRA 280-175050/18 | | | 09:50 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175050/19 | | | 09:53 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175050/20 | | | 09:55 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175050/21 | | | 09:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:00 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175050/23 | 1 | | 15:19 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-175050/24 | 1 | | 15:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-175050/25 | 1 | | 15:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-175050/26 | 1 | | 15:26 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| MB 280-174378/1-A | 1 | T | 15:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LCS 280-174378/2-A | 1 | T | 15:31 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-42039-11 | 1 | T | 15:33 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-42039-11 SD | 5 | T | 15:35 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-42039-11 MS | 1 | T | 15:38 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-42039-11 MSD | 1 | T | 15:40 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-42039-11 PDS | 1 | T | 15:42 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 15:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:49 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175050/37 | 1 | | 15:52 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-175050/38 | 1 | | 15:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-175050/39 | 1 | | 15:57 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-175050/40 | 1 | | 15:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 16:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:04 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/18/2013 08:53 End Date: 05/18/2013 18:22

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | As | Ba | Be | Ca | Cd | Co | Cr | Cu | K | Mg | Mo | Ni | Pb | Sb | Se | Tl | V | Zn |
| ZZZZZZ | | | 16:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:16 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175050/48 | | | 16:19 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175050/49 | | | 16:22 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175050/50 | | | 16:24 | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175050/51 | | | 16:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:52 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175050/62 | | | 16:55 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175050/63 | | | 16:57 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175050/64 | | | 16:59 | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175050/65 | | | 17:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:25 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175050/75 | | | 17:28 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175050/76 | | | 17:30 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175050/77 | | | 17:32 | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175050/78 | | | 17:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:49 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/18/2013 08:53 End Date: 05/18/2013 18:22

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | As | Ba | Be | Ca | Cd | Co | Cr | Cu | K | Mg | Mo | Ni | Pb | Sb | Se | Tl | V | Zn |
| ZZZZZZ | | | 17:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:59 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175050/89 | | | 18:02 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175050/90 | | | 18:05 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175050/91 | | | 18:07 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175050/92 | | | 18:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:12 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:22 | | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/21/2013 11:55 End Date: 05/21/2013 16:22

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | Mn | Na | | | | | | | | | | | | | | | | | | |
| ICIS 280-175407/1 | 1 | | 11:55 | X | X | X | | | | | | | | | | | | | | | | | | |
| IC 280-175407/2 | | | 11:58 | X | X | X | | | | | | | | | | | | | | | | | | |
| IC 280-175407/3 | | | 12:00 | X | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:02 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:05 | | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-175407/6 | 1 | | 12:07 | X | X | X | | | | | | | | | | | | | | | | | | |
| ICV 280-175407/7 | 1 | | 12:11 | X | X | X | | | | | | | | | | | | | | | | | | |
| ICVL 280-175407/8 | 1 | | 12:13 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/9 | | | 12:16 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/10 | | | 12:18 | | | | | | | | | | | | | | | | | | | | | |
| ICB 280-175407/11 | 1 | | 12:21 | X | X | X | | | | | | | | | | | | | | | | | | |
| CRI 280-175407/12 | 1 | | 12:23 | X | X | X | | | | | | | | | | | | | | | | | | |
| CRI 280-175407/13 | 1 | | 12:29 | | | | | | | | | | | | | | | | | | | | | |
| ICSA 280-175407/14 | 1 | | 12:36 | X | X | X | | | | | | | | | | | | | | | | | | |
| ICSAB 280-175407/15 | 1 | | 12:39 | X | X | X | | | | | | | | | | | | | | | | | | |
| LRA 280-175407/16 | | | 12:42 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/17 | | | 12:45 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/18 | | | 12:47 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/19 | | | 12:49 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:59 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:11 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/29 | | | 13:13 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/30 | | | 13:16 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/31 | | | 13:18 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175407/32 | | | 13:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:23 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:41 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/41 | | | 13:43 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/42 | | | 13:46 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/21/2013 11:55 End Date: 05/21/2013 16:22

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | Mn | Na | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/43 | | | 13:48 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175407/44 | | | 13:50 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:05 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:10 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/53 | | | 14:12 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/54 | | | 14:15 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/55 | | | 14:17 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175407/56 | | | 14:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:42 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/66 | 1 | | 14:45 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/67 | 1 | | 14:47 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/68 | 1 | | 14:49 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVL 280-175407/69 | 1 | | 14:52 | X | X | X | | | | | | | | | | | | | | | | | | |
| MB 280-174378/1-A | 1 | T | 14:54 | X | X | X | | | | | | | | | | | | | | | | | | |
| LCS 280-174378/2-A | 1 | T | 14:57 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-11 | 1 | T | 14:59 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-11 SD | 5 | T | 15:01 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-11 MS | 1 | T | 15:04 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-11 MSD | 1 | T | 15:06 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-11 PDS | 1 | T | 15:08 | X | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:15 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/80 | 1 | | 15:18 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/81 | 1 | | 15:20 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/82 | 1 | | 15:23 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVL 280-175407/83 | 1 | | 15:25 | X | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:27 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: MT_026 Method: 6010C

Start Date: 05/21/2013 11:55 End Date: 05/21/2013 16:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | Mn | Na | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:30 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:39 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:44 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/92 | | | 15:46 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/93 | | | 15:49 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/94 | | | 15:51 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175407/95 | | | 15:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:56 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:13 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-175407/104 | | | 16:15 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-175407/105 | | | 16:18 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-175407/106 | | | 16:20 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-175407/107 | | | 16:22 | | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

Sample Name: ICIS Acquired: 5/23/2013 13:33:58 Type: Cal
Method: 6500_025(v11) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00213** | **.00051** | **-.01754** | **-.00023** | **.00106** | **.01327** | **.00001** | **-.00019** | **.00315** | **-.00097** | **-.00002** | **-.00018** | **.00240** |
| Stddev | .00003 | .00001 | .00029 | .00016 | .00008 | .00091 | .00023 | .00017 | .00018 | .00022 | .00000 | .00012 | .00012 |
| %RSD | 1.3536 | 1.0121 | 1.6455 | 68.137 | 7.6276 | 6.8283 | 1891.1 | 88.273 | 5.8597 | 22.476 | 4.2413 | 65.643 | 5.1851 |
| #1 | -.00211 | .00050 | -.01775 | -.00012 | .00100 | .01391 | -.00015 | -.00032 | .00302 | -.00112 | -.00002 | -.00010 | .00231 |
| #2 | -.00215 | .00051 | -.01734 | -.00034 | .00111 | .01263 | .00017 | -.00007 | .00328 | -.00081 | -.00002 | -.00026 | .00249 |

| Elem | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00028** | **-.00055** | **-.00133** | **-.00007** | **-.00013** | **-.00015** | **.00000** | **.01282** | **-.01512** | **-.00056** | **-.00005** | **.00058** | **.00021** |
| Stddev | .00011 | .00020 | .00015 | .00073 | .00003 | .00017 | .00001 | .00022 | .00120 | .00019 | .00005 | .00003 | .00003 |
| %RSD | 39.796 | 35.931 | 11.304 | 1056.6 | 24.150 | 114.30 | 171.82 | 1.7252 | 7.9290 | 33.849 | 90.861 | 5.3047 | 12.573 |
| #1 | .00036 | -.00069 | -.00144 | .00044 | -.00015 | -.00027 | .00000 | .01266 | -.01597 | -.00043 | -.00009 | .00056 | .00023 |
| #2 | .00020 | -.00041 | -.00123 | -.00058 | -.00011 | -.00003 | .00001 | .01297 | -.01427 | -.00070 | -.00002 | .00060 | .00019 |

| Elem | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00041** | **.00045** | **-.00021** | **-.00021** | **.00022** | **-.00480** | **-.00080** | **-.00019** | **-.00051** | **-.00038** | **.00009** | **.00001** | **-.00418** |
| Stddev | .00023 | .00008 | .00020 | .00020 | .00015 | .00029 | .00009 | .00004 | .00005 | .00016 | .00006 | .00001 | .00056 |
| %RSD | 56.339 | 17.537 | 95.070 | 95.070 | 70.836 | 5.9751 | 11.782 | 20.568 | 9.0804 | 41.460 | 67.292 | 77.572 | 13.341 |
| #1 | .00058 | .00051 | -.00007 | -.00007 | .00033 | -.00500 | -.00087 | -.00022 | -.00048 | -.00049 | .00005 | .00001 | -.00378 |
| #2 | .00025 | .00040 | -.00035 | -.00035 | .00011 | -.00460 | -.00073 | -.00016 | -.00054 | -.00027 | .00013 | .00000 | -.00457 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8607.7** | **88996.** | **8576.9** |
| Stddev | 13.3 | 386. | 38.6 |
| %RSD | .15490 | .43398 | .45015 |
| #1 | 8598.3 | 89269. | 8604.2 |
| #2 | 8617.1 | 88723. | 8549.6 |

Sample Name: ICAL1 Acquired: 5/23/2013 13:36:14 Type: Cal
Method: 6500_025(v11) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.24808** | **.41868** | **.11233** | **.26614** | **4.9557** | **7.7347** | **2.1141** | **1.4963** | **.95781** | **1.0502** | **.33913** | **.83024** | **3.7359** | **1.6944** |
| Stddev | .00002 | .00039 | .00003 | .00026 | .0097 | .0011 | .0032 | .0027 | .00055 | .0004 | .00040 | .00130 | .0088 | .0052 |
| %RSD | .00922 | .09428 | .02254 | .09600 | .19572 | .01421 | .14881 | .17832 | .05700 | .03488 | .11920 | .15598 | .23566 | .30889 |
| #1 | .24810 | .41840 | .11235 | .26596 | 4.9489 | 7.7339 | 2.1119 | 1.4944 | .95820 | 1.0499 | .33941 | .83116 | 3.7297 | 1.6981 |
| #2 | .24807 | .41896 | .11231 | .26632 | 4.9626 | 7.7354 | 2.1163 | 1.4982 | .95743 | 1.0504 | .33884 | .82933 | 3.7421 | 1.6907 |

| Elem | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Ti3349 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.4953** | **1.6038** | **.59126** | **1.4887** | **.68799** | **.13781** | **.47420** | **.19930** | **.09876** | **.32210** | **.32210** | **.30459** | **9.1632** | **.34343** |
| Stddev | .0034 | .0036 | .00068 | .0018 | .00180 | .00028 | .00030 | .00002 | .00031 | .00049 | .00049 | .00034 | .0092 | .00078 |
| %RSD | .22582 | .22181 | .11514 | .12268 | .26167 | .20320 | .06275 | .00921 | .31735 | .15319 | .15319 | .11137 | .10053 | .22826 |
| #1 | 1.4977 | 1.6064 | .59078 | 1.4900 | .68671 | .13762 | .47399 | .19931 | .09854 | .32175 | .32175 | .30435 | 9.1567 | .34398 |
| #2 | 1.4929 | 1.6013 | .59174 | 1.4874 | .68926 | .13801 | .47441 | .19929 | .09898 | .32244 | .32244 | .30483 | 9.1697 | .34287 |

| Elem | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.24511** | **.24277** | **.04812** | **.33818** |
| Stddev | .00007 | .00081 | .00020 | .00043 |
| %RSD | .02950 | .33219 | .41470 | .12677 |
| #1 | .24516 | .24334 | .04826 | .33788 |
| #2 | .24506 | .24220 | .04798 | .33849 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8480.6** | **86065.** | **8579.2** |
| Stddev | 6.5 | 103. | 59.7 |
| %RSD | .07627 | .11988 | .69542 |
| #1 | 8476.0 | 85992. | 8537.0 |
| #2 | 8485.2 | 86138. | 8621.4 |

Sample Name: ICAL2 Acquired: 5/23/2013 13:38:24 Type: Cal
Method: 6500_025(v11) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **4.4180** | **.20900** | **.86293** | **2.3876** | **.39932** | **.63657** | **.12136** |
| Stddev | .0210 | .00016 | .00563 | .0103 | .00034 | .00158 | .00029 |
| %RSD | .47565 | .07787 | .65191 | .43092 | .08436 | .24888 | .23793 |
| #1 | 4.4031 | .20889 | .85895 | 2.3803 | .39956 | .63545 | .12157 |
| #2 | 4.4328 | .20912 | .86691 | 2.3948 | .39908 | .63769 | .12116 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8084.5** | **81043.** | **8403.2** |
| Stddev | 69.7 | 358. | 2.5 |
| %RSD | .86172 | .44133 | .02919 |
| #1 | 8035.2 | 81296. | 8404.9 |
| #2 | 8133.7 | 80790. | 8401.5 |

Sample Name: S1-2064675 Acquired: 5/23/2013 13:40:46 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0022** | **1.0176** | **2.0060** | **1.0030** | **.99954** | **1.0011** | **.00321** | **10.011** | **1.0044** | **1.0053** | **1.0053** | **1.0039** | **5.0317** | **100.19** |
| Stddev | .0048 | .0014 | .0000 | .0058 | .00333 | .0022 | .00191 | .035 | .0031 | .0031 | .0028 | .0002 | .0180 | .31 |
| %RSD | .47544 | .13281 | .00119 | .57924 | .33283 | .22282 | 59.607 | .35019 | .30348 | .31127 | .27641 | .02341 | .35724 | .31059 |
| #1 | .99886 | 1.0166 | 2.0060 | .99890 | .99718 | .99951 | .00456 | 9.9859 | 1.0023 | 1.0031 | 1.0033 | 1.0038 | 5.0190 | 99.968 |
| #2 | 1.0056 | 1.0185 | 2.0059 | 1.0071 | 1.0019 | 1.0027 | .00186 | 10.035 | 1.0066 | 1.0076 | 1.0072 | 1.0041 | 5.0444 | 100.41 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0013** | **40.095** | **1.0020** | **1.0046** | **10.291** | **10.345** | **1.0066** | **2.0089** | **2.0111** | **.00034** | **2.0068** | **2.0128** | **9.9956** | **21.391** |
| Stddev | .0075 | .078 | .0000 | .0025 | .020 | .044 | .0023 | .0050 | .0030 | .00142 | .0099 | .0061 | .0260 | .056 |
| %RSD | .37217 | .19358 | .00080 | .24768 | .19313 | .42777 | .23048 | .24945 | .14828 | 413.84 | .49315 | .30431 | .26044 | .26044 |
| #1 | 1.9961 | 40.040 | 1.0020 | 1.0028 | 10.277 | 10.376 | 1.0050 | 2.0053 | 2.0090 | .00134 | 1.9998 | 2.0085 | 9.9772 | 21.351 |
| #2 | 2.0066 | 40.150 | 1.0020 | 1.0063 | 10.305 | 10.313 | 1.0083 | 2.0124 | 2.0132 | -.00066 | 2.0138 | 2.0172 | 10.014 | 21.430 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0088** | **1.0012** | **.00135** | **1.0010** | **2.0003** | **.02048** | **1.0018** | **1.0066** | **1.0005** |
| Stddev | .0089 | .0023 | .00178 | .0006 | .0050 | .00030 | .0033 | .0022 | .0003 |
| %RSD | .44426 | .23258 | 131.56 | .05918 | .25069 | 1.4793 | .32910 | .22132 | .02720 |
| #1 | 2.0025 | .99959 | .00009 | 1.0014 | 1.9967 | .02026 | .99951 | 1.0050 | 1.0003 |
| #2 | 2.0151 | 1.0029 | .00261 | 1.0006 | 2.0038 | .02069 | 1.0042 | 1.0082 | 1.0007 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8454.7** | **85702.** | **8519.2** |
| Stddev | 14.6 | 104. | 26.5 |
| %RSD | .17281 | .12185 | .31055 |
| #1 | 8465.0 | 85776. | 8537.9 |
| #2 | 8444.3 | 85628. | 8500.5 |

Sample Name: S2-2067261 Acquired: 5/23/2013 13:42:55 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **-.00061** | **99.796** | **.00039** | **.00449** | **.00036** | **.00033** | **2.0124** | **-.00959** | **.00088** | **.00090** | **.00045** | **.00242** |
| Stddev | .00000 | .487 | .00172 | .00021 | .00024 | .00004 | .0058 | .00089 | .00018 | .00005 | .00005 | .00009 |
| %RSD | .67608 | .48769 | 438.79 | 4.6858 | 67.401 | 11.354 | .28976 | 9.2711 | 19.992 | 5.9208 | 10.204 | 3.5066 |
| #1 | -.00060 | 99.452 | .00161 | .00464 | .00019 | .00035 | 2.0082 | -.00896 | .00101 | .00086 | .00042 | .00248 |
| #2 | -.00061 | 100.14 | -.00083 | .00434 | .00053 | .00030 | 2.0165 | -.01022 | .00076 | .00094 | .00048 | .00236 |
| Check ? | Chk Fail | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | .00000 | | | | | | | | | | | |
| Range | -.07000% | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **100.42** | **.59437** | **.00643** | **.08099** | **.00051** | **.00020** | **502.22** | **.00054** | **.00683** | **-.00316** | **10.083** | **.00616** |
| Stddev | .52 | .02686 | .00028 | .00174 | .00009 | .00007 | 2.67 | .00008 | .00228 | .00035 | .000 | .00054 |
| %RSD | .52134 | 4.5197 | 4.3495 | 2.1438 | 17.528 | 35.985 | .53077 | 13.865 | 33.372 | 11.248 | .00202 | 8.7877 |
| #1 | 100.05 | .61337 | .00623 | .07976 | .00057 | .00015 | 500.33 | .00049 | .00522 | -.00341 | 10.083 | .00578 |
| #2 | 100.79 | .57538 | .00663 | .08222 | .00044 | .00025 | 504.10 | .00060 | .00844 | -.00291 | 10.083 | .00654 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00886** | **-.02056** | **-.04401** | **.00056** | **.00089** | **9.9334** | **.00053** | **.00121** | **20.061** | **.00040** | **.00052** | **.00745** |
| Stddev | .00259 | .00732 | .01565 | .00047 | .00003 | .0238 | .00002 | .00013 | .005 | .00138 | .00012 | .00289 |
| %RSD | 29.271 | 35.571 | 35.571 | 83.753 | 3.7923 | .23940 | 3.1246 | 11.020 | .02473 | 347.50 | 23.371 | 38.854 |
| #1 | .01070 | -.01539 | -.03294 | .00023 | .00092 | 9.9502 | .00054 | .00112 | 20.057 | -.00058 | .00061 | .00540 |
| #2 | .00703 | -.02574 | -.05508 | .00090 | .00087 | 9.9166 | .00051 | .00131 | 20.064 | .00138 | .00044 | .00949 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8113.9** | **81392.** | **8458.7** |
| Stddev | 4.4 | 470. | 59.7 |
| %RSD | .05441 | .57753 | .70633 |
| #1 | 8117.0 | 81060. | 8500.9 |
| #2 | 8110.8 | 81724. | 8416.4 |

Sample Name: ICVH-2050069 Acquired: 5/23/2013 13:45:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00098** | **39.423** | **-.00112** | **.00114** | **.00241** | **.00001** | W **.53572** | **-.00598** | **.00038** | **.00032** | **.00041** | **.00121** |
| Stddev | .00015 | .020 | .00036 | .00010 | .00036 | .00007 | .00099 | .00288 | .00001 | .00010 | .00009 | .00011 |
| %RSD | 15.401 | .05158 | 32.194 | 9.0297 | 15.041 | 493.82 | .18387 | 48.122 | 3.9128 | 30.092 | 21.145 | 8.8100 |
| #1 | -.00109 | 39.409 | -.00138 | .00122 | .00215 | -.00004 | .53503 | -.00394 | .00039 | .00039 | .00034 | .00113 |
| #2 | -.00087 | 39.437 | -.00087 | .00107 | .00267 | .00006 | .53642 | -.00801 | .00037 | .00026 | .00047 | .00128 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | .50000 | | | | | |
| Range | | | | | | | 5.4900% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **80.659** | **.15378** | **.00233** | **.01773** | **.00017** | **-.00041** | **40.818** | **-.00005** | **.00199** | **-.00190** | **3.9572** | **-.00019** |
| Stddev | .004 | .02844 | .00024 | .00165 | .00004 | .00004 | .066 | .00001 | .00055 | .00129 | .0062 | .00116 |
| %RSD | .00505 | 18.496 | 10.329 | 9.3128 | 24.724 | 10.099 | .16265 | 30.782 | 27.784 | 68.020 | .15648 | 622.81 |
| #1 | 80.656 | .17390 | .00216 | .01890 | .00020 | -.00044 | 40.771 | -.00006 | .00239 | -.00281 | 3.9616 | .00063 |
| #2 | 80.662 | .13367 | .00251 | .01656 | .00014 | -.00038 | 40.865 | -.00004 | .00160 | -.00099 | 3.9529 | -.00101 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00504** | **.01624** | **.03476** | **.00046** | **.00019** | **2.9347** | **-.00015** | **-.00014** | **5.2495** | **-.00012** | **.00156** | **.00209** |
| Stddev | .00024 | .00767 | .01642 | .00014 | .00006 | .0042 | .00004 | .00106 | .0348 | .00052 | .00009 | .00028 |
| %RSD | 4.6784 | 47.223 | 47.223 | 31.268 | 31.129 | .14386 | 27.756 | 741.18 | .66246 | 423.44 | 6.0151 | 13.343 |
| #1 | .00487 | .01082 | .02315 | .00036 | .00015 | 2.9317 | -.00012 | .00061 | 5.2741 | .00024 | .00163 | .00228 |
| #2 | .00520 | .02167 | .04637 | .00056 | .00023 | 2.9377 | -.00018 | -.00089 | 5.2249 | -.00049 | .00150 | .00189 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8590.6** | **86924.** | **8746.1** |
| Stddev | 19.0 | 155. | 61.3 |
| %RSD | .22145 | .17784 | .70085 |
| #1 | 8577.2 | 86814. | 8789.5 |
| #2 | 8604.1 | 87033. | 8702.8 |

Sample Name: ICV-2050070 Acquired: 5/23/2013 13:49:57 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25648** | **.26013** | **.24404** | **.25298** | **.24796** | **.23780** | **.00088** | **2.0023** | **.24933** | **.25218** | **.25363** | **.25150** | **.24715** | **19.858** |
| Stddev | .00005 | .00155 | .00107 | .00104 | .00155 | .00212 | .00125 | .0108 | .00061 | .00016 | .00063 | .00055 | .00211 | .263 |
| %RSD | .01974 | .59449 | .43998 | .41241 | .62423 | .89012 | 142.03 | .53892 | .24286 | .06164 | .24890 | .21896 | .85375 | 1.3228 |
| #1 | .25651 | .25904 | .24480 | .25225 | .24905 | .23930 | .00000 | 2.0099 | .24891 | .25207 | .25318 | .25189 | .24864 | 20.044 |
| #2 | .25644 | .26122 | .24328 | .25372 | .24686 | .23630 | .00177 | 1.9947 | .24976 | .25229 | .25408 | .25112 | .24566 | 19.672 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25099** | **9.9314** | **.24835** | **.25474** | **2.0527** | **.25590** | **1.9520** | **.25493** | **.00144** | **.25810** | **.49800** | **2.0775** | **4.4459** | **.50921** |
| Stddev | .00074 | .0112 | .00005 | .00041 | .0525 | .00053 | .0039 | .00070 | .00188 | .00028 | .00238 | .0135 | .0288 | .00137 |
| %RSD | .29409 | .11236 | .02072 | .15990 | 2.5599 | .20833 | .19939 | .27326 | 130.94 | .10964 | .47706 | .64851 | .64851 | .26875 |
| #1 | .25047 | 9.9235 | .24832 | .25445 | 2.0899 | .25552 | 1.9492 | .25542 | .00011 | .25790 | .49968 | 2.0680 | 4.4256 | .50824 |
| #2 | .25151 | 9.9393 | .24839 | .25503 | 2.0156 | .25628 | 1.9547 | .25443 | .00277 | .25830 | .49632 | 2.0871 | 4.4663 | .51018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24789** | **.00258** | **.24920** | **.51640** | **.01490** | **.24120** | **.24939** | **.24601** |
| Stddev | .00213 | .00047 | .00014 | .00303 | .00266 | .00037 | .00021 | .00071 |
| %RSD | .85729 | 18.399 | .05793 | .58632 | 17.867 | .15419 | .08358 | .28938 |
| #1 | .24939 | .00224 | .24930 | .51426 | .01302 | .24093 | .24925 | .24550 |
| #2 | .24638 | .00291 | .24910 | .51854 | .01679 | .24146 | .24954 | .24651 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8637.1** | **88931.** | **8706.3** |
| Stddev | 13.9 | 259. | 111.5 |
| %RSD | .16133 | .29146 | 1.2807 |
| #1 | 8646.9 | 89114. | 8627.4 |
| #2 | 8627.2 | 88747. | 8785.1 |

Sample Name: ICVL2067279 Acquired: 5/23/2013 13:53:41 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01029** | **.10673** | **.01382** | **.10355** | **.00989** | **.00102** | **.11791** | **.20717** | **.00535** | **.01046** | **.01048** | **.01586** | **.10122** |
| Stddev | .00062 | .00026 | .00006 | .00011 | .00015 | .00003 | .00228 | .00729 | .00013 | .00016 | .00019 | .00043 | .00032 |
| %RSD | 6.0315 | .24005 | .43596 | .10653 | 1.4665 | 3.2757 | 1.9345 | 3.5164 | 2.3531 | 1.5383 | 1.7694 | 2.7238 | .31329 |
| #1 | .00985 | .10655 | .01387 | .10347 | .00999 | .00104 | .11630 | .21232 | .00527 | .01034 | .01061 | .01555 | .10144 |
| #2 | .01073 | .10691 | .01378 | .10363 | .00979 | .00100 | .11952 | .20202 | .00544 | .01057 | .01034 | .01616 | .10099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0985** | **.01251** | **.21432** | **.01023** | **.02093** | **1.0613** | **.04236** | **2.9758** | **.00786** | **.00333** | **.01013** | **.01407** | **.53376** |
| Stddev | .0035 | .00255 | .00313 | .00004 | .00004 | .0067 | .00010 | .0013 | .00152 | .00171 | .00275 | .00064 | .00774 |
| %RSD | .11395 | 20.387 | 1.4592 | .39880 | .19202 | .63571 | .24314 | .04369 | 19.387 | 51.230 | 27.114 | 4.5804 | 1.4509 |
| #1 | 3.1010 | .01071 | .21210 | .01026 | .02096 | 1.0661 | .04243 | 2.9767 | .00679 | .00454 | .00818 | .01452 | .53924 |
| #2 | 3.0960 | .01432 | .21653 | .01021 | .02090 | 1.0566 | .04228 | 2.9748 | .00894 | .00213 | .01207 | .01361 | .52828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1422** | **.10574** | **.01014** | **.01415** | **.00958** | **.01732** | F **.10692** | **.00911** | **.02236** | **.01714** |
| Stddev | .0166 | .00020 | .00001 | .00171 | .00023 | .00039 | .01767 | .00020 | .00003 | .00209 |
| %RSD | 1.4509 | .18582 | .05752 | 12.062 | 2.3556 | 2.2312 | 16.530 | 2.1672 | .15256 | 12.189 |
| #1 | 1.1540 | .10561 | .01015 | .01295 | .00974 | .01759 | .11942 | .00925 | .02239 | .01862 |
| #2 | 1.1305 | .10588 | .01014 | .01536 | .00942 | .01704 | .09442 | .00897 | .02234 | .01566 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8715.2** | **90290.** | **8808.9** |
| Stddev | 11.4 | 52. | 13.5 |
| %RSD | .13115 | .05718 | .15278 |
| #1 | 8723.3 | 90327. | 8799.4 |
| #2 | 8707.1 | 90254. | 8818.4 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 13:57:54 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00083** | **49.869** | **-.00025** | **.00103** | **-.00014** | **-.00003** | **1.0078** | **-.01236** | **.00043** | **.00043** | **.00026** | **.00123** | **50.261** |
| Stddev | .00007 | .017 | .00048 | .00080 | .00002 | .00010 | .0030 | .00424 | .00006 | .00006 | .00011 | .00003 | .002 |
| %RSD | 8.0188 | .03435 | 196.54 | 77.928 | 11.045 | 338.07 | .30211 | 34.266 | 13.416 | 13.628 | 41.093 | 2.3375 | .00313 |
| #1 | -.00088 | 49.881 | .00010 | .00160 | -.00013 | .00004 | 1.0100 | -.01536 | .00039 | .00039 | .00034 | .00125 | 50.260 |
| #2 | -.00079 | 49.857 | -.00059 | .00046 | -.00015 | -.00010 | 1.0057 | -.00937 | .00047 | .00048 | .00019 | .00121 | 50.262 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09418** | **.00240** | **.03634** | **.00005** | **-.00024** | **251.69** | **.00020** | **.00309** | **-.00228** | **4.9150** | **-.00176** | **.00411** | **-.00625** |
| Stddev | .05005 | .00094 | .00477 | .00004 | .00027 | 1.00 | .00004 | .00049 | .00024 | .0035 | .00229 | .00062 | .00243 |
| %RSD | 53.149 | 39.101 | 13.135 | 77.420 | 109.89 | .39622 | 18.577 | 15.879 | 10.455 | .07099 | 130.32 | 15.180 | 38.818 |
| #1 | .05878 | .00306 | .03296 | .00002 | -.00043 | 252.40 | .00017 | .00274 | -.00211 | 4.9174 | -.00014 | .00455 | -.00454 |
| #2 | .12957 | .00174 | .03971 | .00008 | -.00005 | 250.99 | .00022 | .00344 | -.00245 | 4.9125 | -.00338 | .00367 | -.00797 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01338** | **-.00044** | **.00018** | **4.9076** | **-.00012** | **-.00003** | **10.233** | **.00003** | **.00116** | **.00523** |
| Stddev | .00520 | .00022 | .00009 | .0018 | .00007 | .00000 | .033 | .00028 | .00006 | .00267 |
| %RSD | 38.818 | 49.121 | 48.162 | .03666 | 57.535 | 8.6531 | .31959 | 916.34 | 4.9694 | 51.127 |
| #1 | -.00971 | -.00060 | .00024 | 4.9089 | -.00007 | -.00003 | 10.210 | .00023 | .00120 | .00334 |
| #2 | -.01706 | -.00029 | .00012 | 4.9063 | -.00017 | -.00003 | 10.256 | -.00017 | .00111 | .00712 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8321.5** | **84193.** | **8642.2** |
| Stddev | 72.3 | 38. | 131.4 |
| %RSD | .86906 | .04474 | 1.5202 |
| #1 | 8372.6 | 84167. | 8735.1 |
| #2 | 8270.3 | 84220. | 8549.3 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 14:00:15 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50073** | **.50687** | **.98647** | **.49927** | **.49680** | **.48876** | **.00180** | **4.9764** | **.49513** | **.50069** | **.50009** | **.50026** | **2.4796** |
| Stddev | .00101 | .00224 | .00583 | .00033 | .00176 | .00257 | .00110 | .0065 | .00007 | .00078 | .00228 | .00149 | .0111 |
| %RSD | .20226 | .44194 | .59059 | .06566 | .35499 | .52559 | 61.459 | .13059 | .01470 | .15532 | .45623 | .29846 | .44605 |
| #1 | .50002 | .50845 | .99059 | .49950 | .49555 | .48694 | .00258 | 4.9809 | .49518 | .50124 | .50170 | .50131 | 2.4718 |
| #2 | .50145 | .50528 | .98235 | .49904 | .49805 | .49058 | .00102 | 4.9718 | .49507 | .50014 | .49848 | .49920 | 2.4874 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.517** | **.99500** | **19.811** | **.49490** | **.49907** | **5.0836** | **.50350** | **.98255** | **1.0062** | **.00061** | **.99476** | **.99042** | **5.0141** |
| Stddev | .189 | .00364 | .003 | .00004 | .00172 | .0174 | .00279 | .00177 | .0006 | .00244 | .00081 | .00012 | .0215 |
| %RSD | .38067 | .36561 | .01553 | .00748 | .34456 | .34129 | .55366 | .18006 | .06385 | 401.55 | .08150 | .01223 | .42796 |
| #1 | 49.384 | .99243 | 19.808 | .49493 | .50028 | 5.0713 | .50548 | .98380 | 1.0066 | -.00112 | .99533 | .99050 | 4.9989 |
| #2 | 49.651 | .99757 | 19.813 | .49488 | .49785 | 5.0959 | .50153 | .98129 | 1.0057 | .00233 | .99418 | .99033 | 5.0293 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.730** | **1.0008** | **.49597** | **.00140** | **.49372** | **1.0156** | **-.00956** | **.48906** | **.49747** | **.49507** |
| Stddev | .046 | .0038 | .00189 | .00095 | .00071 | .0024 | .00890 | .00169 | .00007 | .00309 |
| %RSD | .42796 | .37605 | .38009 | 67.702 | .14330 | .23583 | 93.092 | .34510 | .01408 | .62467 |
| #1 | 10.698 | 1.0034 | .49463 | .00207 | .49322 | 1.0139 | -.00327 | .48787 | .49742 | .49289 |
| #2 | 10.763 | .99811 | .49730 | .00073 | .49422 | 1.0173 | -.01585 | .49026 | .49752 | .49726 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8555.7** | **86931.** | **8697.2** |
| Stddev | 1.0 | 33. | 81.0 |
| %RSD | .01119 | .03799 | .93135 |
| #1 | 8555.0 | 86954. | 8754.5 |
| #2 | 8556.4 | 86907. | 8639.9 |

Sample Name: ICB  Acquired: 5/23/2013 14:02:23  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00101** | **.00014** | **-.00163** | **.00006** | **-.00014** | **-.00003** | **-.00042** | **.00009** | **.00005** | **.00002** | **-.00003** |
| Stddev | .00037 | .00002 | .00252 | .00024 | .00042 | .00007 | .00370 | .00165 | .00002 | .00012 | .00008 |
| %RSD | 36.863 | 10.926 | 154.45 | 401.68 | 300.95 | 247.41 | 872.67 | 1739.3 | 45.172 | 734.67 | 303.13 |
| #1 | -.00074 | .00015 | -.00341 | .00023 | .00016 | .00002 | .00219 | .00126 | .00007 | .00010 | -.00009 |
| #2 | -.00127 | .00013 | .00015 | -.00011 | -.00044 | -.00007 | -.00304 | -.00107 | .00004 | -.00007 | .00003 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **-.00228** | **.06307** | **.00250** | **.00095** | **.00001** | **.00040** | **.02596** | **.00013** | **.00087** | **-.00238** |
| Stddev | .00015 | .00138 | .08055 | .00365 | .00019 | .00003 | .00013 | .02454 | .00068 | .00019 | .00018 |
| %RSD | 65.559 | 60.798 | 127.72 | 146.32 | 20.037 | 281.14 | 31.829 | 94.520 | 515.10 | 21.847 | 7.4909 |
| #1 | -.00033 | -.00130 | .00611 | -.00009 | .00108 | .00003 | .00031 | .00861 | -.00035 | .00073 | -.00225 |
| #2 | -.00012 | -.00326 | .12002 | .00508 | .00081 | -.00001 | .00049 | .04332 | .00061 | .00100 | -.00250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00165** | **.00247** | **.00258** | **.01827** | **.03910** | **-.00004** | **.00009** | **.00077** | **-.00048** | **.00033** | **.01121** |
| Stddev | .00054 | .00096 | .00501 | .00843 | .01803 | .00011 | .00006 | .00021 | .00010 | .00128 | .02220 |
| %RSD | 33.086 | 38.832 | 194.16 | 46.124 | 46.124 | 286.41 | 72.059 | 26.894 | 21.193 | 382.88 | 197.97 |
| #1 | .00203 | .00179 | -.00096 | .01231 | .02635 | -.00012 | .00013 | .00091 | -.00040 | -.00057 | -.00448 |
| #2 | .00126 | .00314 | .00612 | .02423 | .05185 | .00004 | .00004 | .00062 | -.00055 | .00124 | .02691 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00001** | **.00229** | **.00136** |
| Stddev | .00015 | .00019 | .00076 |
| %RSD | 1124.8 | 8.2260 | 56.205 |
| #1 | .00009 | .00242 | .00082 |
| #2 | -.00012 | .00216 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8538.9** | **88074.** | **8462.8** |
| Stddev | 17.3 | 113. | 10.1 |
| %RSD | .20255 | .12861 | .11941 |
| #1 | 8551.1 | 88154. | 8470.0 |
| #2 | 8526.6 | 87994. | 8455.7 |

Sample Name: CRI-2067280 Acquired: 5/23/2013 14:06:22 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01010** | **.10817** | **.01079** | **.10414** | **.00480** | **.00100** | W **.12442** | **.20780** | **.00527** | **.00528** | **.01061** | **.01055** |
| Stddev | .00017 | .00076 | .00045 | .00055 | .00017 | .00001 | .00296 | .00031 | .00000 | .00009 | .00004 | .00026 |
| %RSD | 1.7018 | .70388 | 4.1383 | .52781 | 3.5964 | .73122 | 2.3776 | .14706 | .06123 | 1.7605 | .39283 | 2.4741 |
| #1 | .01022 | .10763 | .01048 | .10375 | .00468 | .00099 | .12651 | .20759 | .00527 | .00521 | .01064 | .01074 |
| #2 | .00998 | .10871 | .01111 | .10453 | .00493 | .00100 | .12232 | .20802 | .00528 | .00534 | .01058 | .01037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .10000 | | | | | |
| Range | | | | | | | 20.490% | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02927** | **1.0305** | W **.01264** | **.21054** | **.00316** | **.01012** | **1.0534** | **.01100** | **.99104** | **.00274** | **.09874** | **.01011** |
| Stddev | .00082 | .0045 | .00098 | .00119 | .00003 | .00010 | .0136 | .00016 | .00410 | .00171 | .00171 | .00251 |
| %RSD | 2.8019 | .43796 | 7.7602 | .56711 | .94992 | .96679 | 1.2936 | 1.4443 | .41332 | 62.361 | 1.7288 | 24.811 |
| #1 | .02869 | 1.0273 | .01334 | .21138 | .00314 | .01005 | 1.0631 | .01089 | .98815 | .00153 | .09753 | .01189 |
| #2 | .02985 | 1.0337 | .01195 | .20969 | .00318 | .01019 | 1.0438 | .01112 | .99394 | .00394 | .09994 | .00834 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01000 | | | | | | | | | |
| Range | | | 20.490% | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01313** | **.52277** | **1.1187** | **.01993** | **.00519** | **.01013** | **.00980** | **.01112** | F **.10501** | **.00922** | **.01205** | **.01125** |
| Stddev | .00085 | .00628 | .0134 | .00040 | .00003 | .00130 | .00004 | .00037 | .02643 | .00003 | .00004 | .00235 |
| %RSD | 6.4361 | 1.2004 | 1.2004 | 2.0171 | .63561 | 12.865 | .43600 | 3.3111 | 25.167 | .36448 | .31327 | 20.888 |
| #1 | .01373 | .52721 | 1.1282 | .01965 | .00517 | .01105 | .00977 | .01086 | .08632 | .00924 | .01207 | .00959 |
| #2 | .01254 | .51833 | 1.1092 | .02021 | .00521 | .00921 | .00983 | .01139 | .12369 | .00920 | .01202 | .01291 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | .06000 | | | |
| Range | 20.490% | | | | | | | | 50.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8722.9** | **90506.** | **8737.4** |
| Stddev | 42.4 | 664. | 86.2 |
| %RSD | .48561 | .73377 | .98695 |
| #1 | 8752.8 | 90976. | 8798.4 |
| #2 | 8692.9 | 90036. | 8676.5 |

Sample Name: CRI-2068241 Acquired: 5/23/2013 14:17:27 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **.00026** | **-.00055** | **-.00085** | **-.00002** | **.00001** | **.00037** | **.00588** | **.00017** | **.00020** |
| Stddev | .00007 | .00029 | .00266 | .00030 | .00026 | .00002 | .00122 | .00193 | .00001 | .00009 |
| %RSD | 17.540 | 111.22 | 484.20 | 35.469 | 1464.0 | 302.12 | 333.18 | 32.766 | 8.3787 | 46.054 |
| #1 | -.00044 | .00005 | .00133 | -.00064 | .00017 | .00002 | -.00050 | .00451 | .00016 | .00013 |
| #2 | -.00034 | .00046 | -.00243 | -.00107 | -.00020 | -.00001 | .00123 | .00724 | .00018 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **-.00030** | **.03594** | **-.01341** | **.00199** | **.00052** | **.00054** | **-.00015** | **-.00447** | **.00017** |
| Stddev | .00006 | .00007 | .00192 | .00904 | .00270 | .00014 | .00006 | .00024 | .00981 | .00007 |
| %RSD | 6.7258 | 22.000 | 5.3324 | 67.384 | 135.65 | 26.447 | 10.641 | 158.91 | 219.54 | 40.807 |
| #1 | .00091 | -.00034 | .03458 | -.01980 | .00008 | .00062 | .00050 | .00002 | .00247 | .00012 |
| #2 | .00101 | -.00025 | .03729 | -.00702 | .00389 | .00042 | .00058 | -.00031 | -.01140 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **-.00122** | **.00108** | **.00110** | **.01935** | **.02231** | **.04775** | **-.00069** | **-.00003** | **-.00096** |
| Stddev | .00147 | .00011 | .00251 | .00251 | .00009 | .00223 | .00477 | .00054 | .00002 | .00070 |
| %RSD | 536.32 | 8.7554 | 232.20 | 228.94 | .48952 | 9.9953 | 9.9953 | 78.743 | 74.958 | 72.986 |
| #1 | -.00132 | -.00130 | .00285 | .00287 | .01929 | .02074 | .04438 | -.00030 | -.00001 | -.00145 |
| #2 | .00077 | -.00115 | -.00069 | -.00068 | .01942 | .02389 | .05113 | -.00107 | -.00004 | -.00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00074** | **-.00036** | **.02006** | **.00018** | **.00189** | **.00063** |
| Stddev | .00035 | .00025 | .01765 | .00010 | .00033 | .00027 |
| %RSD | 48.011 | 70.154 | 87.986 | 56.652 | 17.262 | 42.841 |
| #1 | -.00049 | -.00053 | .03255 | .00025 | .00212 | .00044 |
| #2 | -.00098 | -.00018 | .00758 | .00011 | .00166 | .00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8474.1** | **88108.** | **8438.1** |
| Stddev | .4 | 613. | 26.8 |
| %RSD | .00515 | .69536 | .31725 |
| #1 | 8474.4 | 87675. | 8419.2 |
| #2 | 8473.8 | 88541. | 8457.0 |

Sample Name: CRI-2068242 Acquired: 5/23/2013 14:27:27 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **-.00016** | **-.00250** | **-.00100** | **.00003** | **.00001** | **-.00328** | **.00167** | **-.00007** | **.00010** |
| Stddev | .00045 | .00009 | .00228 | .00061 | .00010 | .00005 | .00020 | .00193 | .00005 | .00025 |
| %RSD | 197.08 | 56.410 | 91.236 | 61.538 | 288.78 | 378.99 | 5.9503 | 115.41 | 74.645 | 246.59 |
| #1 | .00009 | -.00022 | -.00089 | -.00143 | -.00004 | -.00002 | -.00342 | .00304 | -.00010 | -.00008 |
| #2 | -.00055 | -.00010 | -.00412 | -.00056 | .00010 | .00005 | -.00314 | .00031 | -.00003 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **-.00011** | **-.00010** | **.01510** | **-.00037** | **-.00031** | **.00004** | **.00000** | **.00069** | **-.00010** |
| Stddev | .00007 | .00038 | .00076 | .00187 | .00137 | .00221 | .00003 | .00010 | .01208 | .00016 |
| %RSD | 26.468 | 340.42 | 747.97 | 12.404 | 373.15 | 715.47 | 66.508 | 4008.9 | 1763.2 | 161.71 |
| #1 | .00022 | -.00038 | .00044 | .01377 | -.00133 | .00125 | .00006 | -.00007 | .00923 | -.00021 |
| #2 | .00033 | .00016 | -.00064 | .01642 | .00060 | -.00187 | .00002 | .00007 | -.00786 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **-.00170** | **.00130** | **-.00198** | **.01995** | **.00915** | **.01958** | **-.00076** | **-.00004** | **.00052** |
| Stddev | .00078 | .00143 | .00166 | .00071 | .00234 | .00373 | .00799 | .00019 | .00014 | .00091 |
| %RSD | 133.78 | 83.704 | 128.13 | 35.813 | 11.711 | 40.806 | 40.806 | 24.972 | 333.97 | 176.73 |
| #1 | .00114 | -.00069 | .00012 | -.00148 | .01830 | .01179 | .02523 | -.00062 | -.00014 | .00116 |
| #2 | .00003 | -.00271 | .00247 | -.00248 | .02160 | .00651 | .01393 | -.00089 | .00006 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.00083** | **-.01331** | **.00066** | **.00173** | **.00019** |
| Stddev | .00024 | .00003 | .03028 | .00023 | .00005 | .00057 |
| %RSD | 120.65 | 3.3601 | 227.46 | 34.717 | 2.9124 | 290.21 |
| #1 | -.00003 | .00081 | -.03472 | .00050 | .00176 | .00059 |
| #2 | -.00037 | .00085 | .00810 | .00083 | .00169 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8518.0** | **88706.** | **8567.0** |
| Stddev | 8.0 | 60. | 15.3 |
| %RSD | .09393 | .06787 | .17877 |
| #1 | 8523.6 | 88663. | 8577.8 |
| #2 | 8512.3 | 88748. | 8556.2 |

Sample Name: ICSA-2050073 Acquired: 5/23/2013 14:34:48 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00106** | R **502.46** | **-.00247** | **-.00112** | **.00045** | **-.00001** | **-.00541** | **466.33** | W **.00239** | **-.00174** | W **.00208** | W **.00423** |
| Stddev | .00039 | 1.40 | .00230 | .00058 | .00001 | .00004 | .00185 | 3.00 | .00031 | .00018 | .00031 | .00022 |
| %RSD | 36.622 | .27831 | 93.265 | 51.597 | 1.7432 | 311.29 | 34.166 | .64314 | 12.963 | 10.463 | 14.772 | 5.1307 |
| #1 | -.00133 | 501.47 | -.00084 | -.00071 | .00045 | -.00004 | -.00672 | 468.45 | .00217 | -.00161 | .00186 | .00408 |
| #2 | -.00079 | 503.45 | -.00410 | -.00153 | .00046 | .00001 | -.00410 | 464.21 | .00261 | -.00187 | .00230 | .00439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Warn |
| High Limit | | | | | | | | | .00080 | | .00186 | .00272 |
| Low Limit | | | | | | | | | -.00080 | | -.00186 | -.00272 |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **190.11** | **.15170** | **.00297** | **484.80** | W **.00145** | **-.00010** | **.08398** | **-.00078** | **-.00289** | **-.00029** | **-.04175** | **-.00176** |
| Stddev | .34 | .06245 | .00309 | 4.86 | .00013 | .00034 | .01316 | .00064 | .00024 | .00056 | .00208 | .00211 |
| %RSD | .17875 | 41.164 | 104.08 | 1.0030 | 8.9984 | 358.31 | 15.674 | 82.140 | 8.3901 | 189.51 | 4.9716 | 119.78 |
| #1 | 189.87 | .10755 | .00515 | 481.36 | .00136 | -.00034 | .07467 | -.00033 | -.00272 | -.00069 | -.04028 | -.00027 |
| #2 | 190.35 | .19586 | .00078 | 488.23 | .00154 | .00015 | .09329 | -.00123 | -.00306 | .00010 | -.04322 | -.00325 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00050 | | | | | | | |
| Low Limit | | | | | -.00050 | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00405** | W **.00974** | **.02084** | **.00021** | W **.00177** | W **.01077** | **.00040** | **-.00606** | **.01657** | **.00210** | **.00042** | **.00287** |
| Stddev | .01076 | .00164 | .00351 | .00091 | .00012 | .00054 | .00043 | .00051 | .00824 | .00008 | .00057 | .00073 |
| %RSD | 265.61 | 16.861 | 16.861 | 422.59 | 6.6743 | 5.0389 | 107.40 | 8.4804 | 49.730 | 3.8899 | 137.84 | 25.565 |
| #1 | -.00356 | .01090 | .02333 | .00086 | .00168 | .01115 | .00010 | -.00642 | .02239 | .00204 | .00001 | .00339 |
| #2 | .01166 | .00858 | .01836 | -.00043 | .00185 | .01038 | .00071 | -.00570 | .01074 | .00215 | .00082 | .00235 |
| Check ? | Chk Pass | Chk Warn | None | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00694 | | | .00050 | .00800 | | | | | | |
| Low Limit | | -.06940 | | | -.00050 | -.00800 | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7775.5** | **75778.** | **8462.1** |
| Stddev | 24.0 | 123. | 21.6 |
| %RSD | .30853 | .16266 | .25471 |
| #1 | 7792.5 | 75865. | 8446.8 |
| #2 | 7758.6 | 75691. | 8477.3 |

Sample Name: ICSAB-2050074 Acquired: 5/23/2013 14:37:45 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0698** | **497.27** | **1.9132** | **1.8668** | **.48836** | **.46772** | **1.0223** | **459.65** | **.99112** | **.45387** | **.47515** | **.52138** | **187.96** |
| Stddev | .0036 | 2.64 | .0031 | .0092 | .00085 | .00320 | .0018 | 1.93 | .00404 | .00213 | .00197 | .00181 | .80 |
| %RSD | .33156 | .53050 | .16182 | .49259 | .17369 | .68516 | .17958 | .42025 | .40741 | .46958 | .41498 | .34785 | .42581 |
| #1 | 1.0673 | 499.14 | 1.9154 | 1.8603 | .48896 | .46999 | 1.0210 | 461.02 | .98827 | .45236 | .47376 | .52010 | 188.52 |
| #2 | 1.0723 | 495.41 | 1.9110 | 1.8733 | .48776 | .46546 | 1.0236 | 458.28 | .99398 | .45537 | .47655 | .52266 | 187.39 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.927** | **.99809** | **473.46** | **.48801** | **.94069** | **49.959** | **.89640** | **1.8585** | **.90271** | **.95883** | **1.0142** | **4.6872** | **10.231** |
| Stddev | .157 | .00874 | 1.80 | .00164 | .00333 | .266 | .00389 | .0083 | .00295 | .00225 | .0034 | .0141 | .059 |
| %RSD | .31486 | .87567 | .37941 | .33615 | .35416 | .53332 | .43440 | .44767 | .32664 | .23450 | .33006 | .30175 | .57881 |
| #1 | 50.038 | 1.0043 | 474.73 | .48685 | .93833 | 49.771 | .89364 | 1.8526 | .90062 | .95724 | 1.0166 | 4.6772 | 10.273 |
| #2 | 49.816 | .99191 | 472.19 | .48917 | .94304 | 50.148 | .89915 | 1.8644 | .90479 | .96042 | 1.0119 | 4.6972 | 10.189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.895** | **8.8769** | **.95847** | **2.0310** | **.99315** | **8.1714** | **-.01590** | **.49149** | **.94862** | **.98066** |
| Stddev | .127 | .0447 | .00438 | .0103 | .00029 | .0327 | .05223 | .00304 | .00668 | .00568 |
| %RSD | .57881 | .50365 | .45733 | .50498 | .02923 | .40066 | 328.39 | .61937 | .70395 | .57954 |
| #1 | 21.984 | 8.8453 | .96157 | 2.0237 | .99295 | 8.1482 | .02103 | .48934 | .94389 | .98467 |
| #2 | 21.805 | 8.9085 | .95537 | 2.0382 | .99336 | 8.1945 | -.05284 | .49364 | .95334 | .97664 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7716.0** | **75684.** | **8474.2** |
| Stddev | 34.8 | 402. | 28.9 |
| %RSD | .45159 | .53127 | .34149 |
| #1 | 7740.6 | 75968. | 8453.8 |
| #2 | 7691.3 | 75399. | 8494.7 |

Sample Name: LRA-2050194 Acquired: 5/23/2013 14:40:02 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0952** | **-.00296** | **9.9286** | **9.5517** | **12.320** | **.00174** | **.04413** | **.09348** | **2.0666** | **5.1550** | **10.403** | **10.526** | R **523.62** |
| Stddev | .0063 | .02112 | .0076 | .0211 | .135 | .00003 | .00406 | .00568 | .0004 | .0033 | .014 | .030 | 1.58 |
| %RSD | .30003 | 714.44 | .07629 | .22115 | 1.0957 | 1.4736 | 9.1947 | 6.0817 | .01923 | .06458 | .13113 | .28518 | .30095 |
| #1 | 2.0907 | -.01789 | 9.9232 | 9.5368 | 12.225 | .00175 | .04700 | .09750 | 2.0663 | 5.1526 | 10.393 | 10.547 | 522.50 |
| #2 | 2.0996 | .01198 | 9.9339 | 9.5667 | 12.415 | .00172 | .04126 | .08946 | 2.0669 | 5.1574 | 10.412 | 10.504 | 524.73 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02146** | **.00013** | **-.05785** | **9.9022** | **10.301** | **.08224** | **10.450** | **-.02646** | **10.632** | **-.06197** | **.19680** | **4.9743** | **49.315** |
| Stddev | .07497 | .00264 | .00171 | .0127 | .011 | .01434 | .024 | .00155 | .003 | .00100 | .00138 | .0038 | .355 |
| %RSD | 349.25 | 2006.4 | 2.9478 | .12821 | .10897 | 17.436 | .22570 | 5.8668 | .03200 | 1.6130 | .70350 | .07577 | .71942 |
| #1 | .03154 | -.00174 | -.05905 | 9.9111 | 10.293 | .09238 | 10.433 | -.02536 | 10.629 | -.06126 | .19582 | 4.9716 | 49.065 |
| #2 | -.07447 | .00200 | -.05664 | 9.8932 | 10.309 | .07210 | 10.466 | -.02756 | 10.634 | -.06268 | .19777 | 4.9769 | 49.566 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **105.54** | **.02187** | **10.525** | **.02792** | **10.113** | **10.180** | **.05661** | **10.008** | **9.7139** | **-.00238** |
| Stddev | .76 | .00019 | .043 | .00107 | .118 | .004 | .04123 | .026 | .0191 | .00142 |
| %RSD | .71942 | .87232 | .41276 | 3.8378 | 1.1669 | .03857 | 72.824 | .25972 | .19653 | 59.579 |
| #1 | 105.00 | .02200 | 10.556 | .02867 | 10.196 | 10.183 | .02746 | 9.9901 | 9.7004 | -.00138 |
| #2 | 106.07 | .02173 | 10.495 | .02716 | 10.029 | 10.177 | .08576 | 10.027 | 9.7274 | -.00338 |
| Check ? | None | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8237.0** | **85837.** | **8566.4** |
| Stddev | 16.2 | 226. | 36.4 |
| %RSD | .19698 | .26272 | .42489 |
| #1 | 8248.5 | 85677. | 8592.1 |
| #2 | 8225.5 | 85996. | 8540.7 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 14:43:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00076** | **49.629** | **-.00167** | **.01674** | **.00042** | **.00004** | **1.0133** | **-.00783** | **.00040** | **.00051** | **.00022** | **.00021** | **50.334** |
| Stddev | .00059 | .055 | .00010 | .00126 | .00002 | .00002 | .0028 | .00002 | .00021 | .00011 | .00022 | .00007 | .220 |
| %RSD | 77.420 | .11088 | 5.8654 | 7.5270 | 3.8476 | 58.703 | .27894 | .22945 | 52.675 | 20.900 | 97.020 | 35.482 | .43616 |
| #1 | -.00034 | 49.591 | -.00174 | .01763 | .00041 | .00006 | 1.0153 | -.00784 | .00025 | .00044 | .00007 | .00026 | 50.179 |
| #2 | -.00118 | 49.668 | -.00160 | .01585 | .00043 | .00002 | 1.0113 | -.00782 | .00055 | .00059 | .00038 | .00016 | 50.489 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **.00018** | **.03792** | **.00022** | **.00097** | **252.95** | **.00019** | **.00350** | **-.00253** | **4.9072** | **-.00203** | **.00316** | **.03564** |
| Stddev | .01591 | .00222 | .00035 | .00005 | .00057 | .42 | .00015 | .00213 | .00032 | .0073 | .00128 | .00094 | .01092 |
| %RSD | 805.65 | 1235.1 | .91275 | 22.141 | 59.352 | .16518 | 82.633 | 60.864 | 12.735 | .14846 | 63.215 | 29.862 | 30.633 |
| #1 | -.00927 | .00175 | .03817 | .00018 | .00056 | 253.25 | .00008 | .00501 | -.00276 | 4.9123 | -.00294 | .00382 | .02792 |
| #2 | .01322 | -.00139 | .03768 | .00025 | .00137 | 252.66 | .00029 | .00200 | -.00231 | 4.9020 | -.00112 | .00249 | .04335 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07626** | **.00029** | **.00046** | **4.9223** | **.00136** | **.00215** | **10.353** | **-.00088** | **.00104** | **.00401** |
| Stddev | .02336 | .00021 | .00002 | .0223 | .00067 | .00007 | .091 | .00058 | .00029 | .00026 |
| %RSD | 30.633 | 72.784 | 5.2789 | .45253 | 48.854 | 3.1790 | .87634 | 65.458 | 28.409 | 6.3757 |
| #1 | .05974 | .00014 | .00044 | 4.9065 | .00089 | .00220 | 10.288 | -.00129 | .00124 | .00419 |
| #2 | .09278 | .00043 | .00047 | 4.9380 | .00183 | .00210 | 10.417 | -.00047 | .00083 | .00383 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8293.3** | **84090.** | **8609.9** |
| Stddev | 11.2 | 547. | 44.6 |
| %RSD | .13464 | .65014 | .51839 |
| #1 | 8285.4 | 84477. | 8578.4 |
| #2 | 8301.2 | 83704. | 8641.5 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 14:45:39 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49499** | **.51196** | **.99582** | **.51311** | **.50125** | **.49051** | **-.00044** | **5.0450** | **.49728** | **.50464** | **.50664** | **.49952** | **2.4960** |
| Stddev | .00220 | .00006 | .00131 | .00006 | .00047 | .00140 | .00119 | .0031 | .00079 | .00013 | .00030 | .00090 | .0109 |
| %RSD | .44492 | .01212 | .13156 | .01174 | .09319 | .28588 | 269.79 | .06215 | .15885 | .02553 | .05964 | .18077 | .43662 |
| #1 | .49343 | .51191 | .99489 | .51307 | .50092 | .49150 | -.00129 | 5.0472 | .49672 | .50455 | .50643 | .49888 | 2.5037 |
| #2 | .49655 | .51200 | .99674 | .51315 | .50158 | .48951 | .00040 | 5.0428 | .49783 | .50474 | .50686 | .50016 | 2.4883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.069** | **.99979** | **19.592** | **.49275** | **.50392** | **5.1058** | **.50897** | **.99404** | **1.0097** | **.00091** | **.99899** | **.99759** | **5.0773** |
| Stddev | .045 | .00077 | .108 | .00210 | .00005 | .0107 | .00097 | .00434 | .0009 | .00211 | .00466 | .00020 | .0066 |
| %RSD | .09068 | .07652 | .55341 | .42664 | .00954 | .21042 | .18993 | .43638 | .08978 | 232.49 | .46645 | .01955 | .13027 |
| #1 | 50.101 | 1.0003 | 19.516 | .49127 | .50395 | 5.1134 | .50828 | .99097 | 1.0091 | -.00058 | .99570 | .99745 | 5.0727 |
| #2 | 50.037 | .99925 | 19.669 | .49424 | .50389 | 5.0982 | .50965 | .99711 | 1.0104 | .00240 | 1.0023 | .99773 | 5.0820 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.865** | **1.0093** | **.50048** | **-.00019** | **.49584** | **1.0213** | **.01548** | **.48467** | **.49309** | **.50497** |
| Stddev | .014 | .0006 | .00011 | .00043 | .00210 | .0019 | .00908 | .00189 | .00261 | .00178 |
| %RSD | .13027 | .05839 | .02180 | 221.69 | .42251 | .19052 | 58.617 | .39076 | .52851 | .35211 |
| #1 | 10.855 | 1.0097 | .50040 | -.00049 | .49436 | 1.0199 | .02190 | .48333 | .49125 | .50622 |
| #2 | 10.875 | 1.0089 | .50055 | .00011 | .49733 | 1.0226 | .00907 | .48601 | .49494 | .50371 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8446.2** | **87205.** | **8522.6** |
| Stddev | 7.9 | 561. | 31.2 |
| %RSD | .09393 | .64291 | .36632 |
| #1 | 8440.6 | 87601. | 8544.7 |
| #2 | 8451.8 | 86808. | 8500.6 |

Sample Name: CCB Acquired: 5/23/2013 14:47:46 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00097** | **-.00120** | F **.00722** | **-.00024** | **-.00005** | **-.00231** | **.00145** | **.00005** | **.00004** | **.00015** | **-.00011** | **.00066** |
| Stddev | .00011 | .00002 | .00066 | .00002 | .00004 | .00002 | .00162 | .00280 | .00001 | .00004 | .00006 | .00007 | .00084 |
| %RSD | 170.45 | 2.0450 | 54.795 | .28037 | 18.200 | 34.469 | 70.299 | 192.86 | 27.994 | 98.582 | 43.658 | 66.623 | 126.92 |
| #1 | .00014 | .00096 | -.00167 | .00724 | -.00021 | -.00004 | -.00345 | -.00053 | .00006 | .00007 | .00019 | -.00006 | .00007 |
| #2 | -.00001 | .00099 | -.00074 | .00721 | -.00027 | -.00006 | -.00116 | .00343 | .00004 | .00001 | .00010 | -.00016 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01115** | **-.00045** | **.00258** | **.00003** | **.00036** | **.03293** | **-.00007** | **.00063** | **-.00126** | **.00243** | **.00158** | **.00079** | **.02016** |
| Stddev | .02942 | .00073 | .00144 | .00009 | .00018 | .02823 | .00001 | .00050 | .00024 | .00029 | .00210 | .00306 | .00506 |
| %RSD | 263.78 | 159.92 | 55.856 | 280.84 | 51.354 | 85.727 | 8.1711 | 78.626 | 18.658 | 12.061 | 133.22 | 388.97 | 25.092 |
| #1 | -.03196 | -.00097 | .00359 | .00010 | .00023 | .05290 | -.00007 | .00028 | -.00110 | .00264 | .00009 | -.00138 | .02373 |
| #2 | .00965 | .00006 | .00156 | -.00003 | .00048 | .01297 | -.00008 | .00099 | -.00143 | .00222 | .00306 | .00295 | .01658 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04314** | **-.00006** | **.00012** | **.00139** | **-.00018** | **.00040** | **.00469** | **-.00025** | **.00209** | **.00094** |
| Stddev | .01082 | .00073 | .00006 | .00031 | .00015 | .00077 | .00347 | .00014 | .00006 | .00106 |
| %RSD | 25.092 | 1312.2 | 54.393 | 22.017 | 87.464 | 193.11 | 74.059 | 53.806 | 2.7659 | 113.24 |
| #1 | .05079 | .00046 | .00007 | .00161 | -.00028 | .00095 | .00223 | -.00035 | .00214 | .00019 |
| #2 | .03548 | -.00057 | .00016 | .00118 | -.00007 | -.00015 | .00715 | -.00016 | .00205 | .00169 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8474.0** | **88399.** | **8543.2** |
| Stddev | 6.4 | 108. | 41.9 |
| %RSD | .07528 | .12198 | .49091 |
| #1 | 8469.5 | 88475. | 8572.9 |
| #2 | 8478.5 | 88322. | 8513.5 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 14:50:01 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00966** | **.10715** | **.01280** | **.11022** | **.01002** | **.00100** | **.11804** | **.20601** | **.00544** | **.01057** | **.01054** | **.01544** | **.09932** |
| Stddev | .00016 | .00036 | .00059 | .00029 | .00019 | .00001 | .00014 | .00103 | .00008 | .00001 | .00007 | .00024 | .00169 |
| %RSD | 1.6049 | .33862 | 4.6076 | .25994 | 1.8670 | 1.1666 | .11631 | .49783 | 1.4711 | .07425 | .61867 | 1.5848 | 1.7012 |
| #1 | .00977 | .10741 | .01238 | .11042 | .00988 | .00099 | .11814 | .20674 | .00550 | .01056 | .01049 | .01562 | .10052 |
| #2 | .00955 | .10690 | .01321 | .11001 | .01015 | .00101 | .11794 | .20529 | .00539 | .01057 | .01059 | .01527 | .09813 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.9856** | **.01068** | **.20997** | **.01024** | **.02120** | **1.0423** | **.04241** | **2.9908** | **.00802** | **.00045** | **.00994** | **.01537** | **.55301** |
| Stddev | .0146 | .00114 | .00009 | .00001 | .00002 | .0168 | .00032 | .0057 | .00091 | .00019 | .00116 | .00195 | .01059 |
| %RSD | .48855 | 10.650 | .04390 | .08050 | .11129 | 1.6151 | .76237 | .19161 | 11.399 | 42.744 | 11.643 | 12.691 | 1.9156 |
| #1 | 2.9753 | .01148 | .21003 | .01024 | .02122 | 1.0304 | .04219 | 2.9948 | .00737 | .00031 | .00912 | .01675 | .54552 |
| #2 | 2.9959 | .00987 | .20990 | .01023 | .02118 | 1.0542 | .04264 | 2.9867 | .00866 | .00058 | .01076 | .01399 | .56050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1834** | **.10648** | **.01007** | **.01460** | **.00996** | **.01683** | F **.09021** | **.00979** | **.02268** | **.01610** |
| Stddev | .0227 | .00013 | .00004 | .00037 | .00026 | .00113 | .02652 | .00027 | .00002 | .00082 |
| %RSD | 1.9156 | .12550 | .40164 | 2.5131 | 2.6008 | 6.7224 | 29.395 | 2.7765 | .10058 | 5.1129 |
| #1 | 1.1674 | .10657 | .01010 | .01434 | .00978 | .01763 | .07146 | .00998 | .02270 | .01668 |
| #2 | 1.1995 | .10639 | .01004 | .01485 | .01015 | .01603 | .10896 | .00959 | .02266 | .01551 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8655.3** | **89394.** | **8654.8** |
| Stddev | 11.1 | 273. | 37.3 |
| %RSD | .12864 | .30577 | .43088 |
| #1 | 8663.2 | 89588. | 8628.4 |
| #2 | 8647.5 | 89201. | 8681.1 |

Sample Name: mb 280-175436/1-a  Acquired: 5/23/2013 14:52:18  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00072** | **.02428** | **-.00014** | **.00490** | **.00086** | **.00006** | **-.00058** | **.05396** | **.00007** | **.00005** |
| Stddev | .00003 | .00012 | .00100 | .00073 | .00015 | .00001 | .00076 | .00058 | .00022 | .00009 |
| %RSD | 4.1241 | .47977 | 711.15 | 14.957 | 17.994 | 22.226 | 130.82 | 1.0703 | 306.91 | 177.30 |
| #1 | -.00070 | .02436 | -.00085 | .00542 | .00097 | .00007 | -.00111 | .05355 | .00022 | .00012 |
| #2 | -.00074 | .02420 | .00057 | .00438 | .00075 | .00005 | -.00004 | .05436 | -.00008 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00466** | **.00039** | F **.24208** | **.01548** | **.00343** | **.01834** | **.00151** | **.00030** | **.18791** | **.00091** |
| Stddev | .00003 | .00013 | .00254 | .00241 | .00043 | .00115 | .00000 | .00009 | .00457 | .00015 |
| %RSD | .70040 | 33.858 | 1.0486 | 15.571 | 12.608 | 6.2791 | .14698 | 31.230 | 2.4300 | 16.997 |
| #1 | .00464 | .00029 | .24387 | .01377 | .00312 | .01752 | .00151 | .00023 | .18468 | .00101 |
| #2 | .00468 | .00048 | .24028 | .01718 | .00374 | .01915 | .00152 | .00037 | .19114 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .10000 | | | | | | | |
| Low Limit | | | -.10000 | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11143** | **-.00002** | **.03934** | **-.00035** | **.00329** | **.04973** | **.10642** | **.00710** | **.00018** | **.00074** |
| Stddev | .00044 | .00004 | .00109 | .00063 | .00037 | .01147 | .02454 | .00066 | .00007 | .00100 |
| %RSD | .39898 | 203.09 | 2.7583 | 179.93 | 11.226 | 23.056 | 23.056 | 9.2691 | 39.784 | 135.94 |
| #1 | .11112 | -.00005 | .03857 | .00010 | .00303 | .05784 | .12378 | .00757 | .00013 | .00144 |
| #2 | .11175 | .00001 | .04010 | -.00080 | .00355 | .04162 | .08907 | .00664 | .00023 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00398** | **.00038** | **-.00342** | **-.00010** | W **.01065** | **.00244** |
| Stddev | .00040 | .00013 | .00227 | .00033 | .00031 | .00164 |
| %RSD | 10.184 | 34.491 | 66.316 | 316.55 | 2.9230 | 66.986 |
| #1 | .00369 | .00047 | -.00502 | -.00033 | .01043 | .00129 |
| #2 | .00426 | .00028 | -.00181 | .00013 | .01087 | .00360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | .01000 | |
| Low Limit | | | | | -.01000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8655.3** | **89877.** | **8749.5** |
| Stddev | 15.1 | 248. | 16.0 |
| %RSD | .17496 | .27644 | .18251 |
| #1 | 8666.0 | 89701. | 8760.8 |
| #2 | 8644.6 | 90052. | 8738.2 |

Sample Name: lcs 280-175436/2-a Acquired: 5/23/2013 14:54:33 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04904** | **1.8819** | **.97343** | **.96580** | **1.9327** | **.04703** | **2.0995** | **47.927** | **.09768** | **.47772** |
| Stddev | .00007 | .0018 | .00311 | .00052 | .0027 | .00018 | .0001 | .095 | .00002 | .00064 |
| %RSD | .13610 | .09390 | .31951 | .05409 | .14210 | .37467 | .00667 | .19765 | .01959 | .13422 |
| #1 | .04909 | 1.8807 | .97563 | .96543 | 1.9308 | .04715 | 2.0996 | 47.860 | .09769 | .47818 |
| #2 | .04899 | 1.8832 | .97123 | .96617 | 1.9347 | .04691 | 2.0994 | 47.994 | .09766 | .47727 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20109** | **.24188** | **1.1826** | **48.018** | **.95786** | **47.283** | **.47402** | **.98803** | **50.958** | **.48445** |
| Stddev | .00014 | .00104 | .0044 | .105 | .00362 | .103 | .00003 | .00021 | .169 | .00008 |
| %RSD | .06908 | .43126 | .37513 | .21958 | .37807 | .21881 | .00626 | .02083 | .33131 | .01668 |
| #1 | .20099 | .24262 | 1.1794 | 47.944 | .95530 | 47.356 | .47400 | .98817 | 50.839 | .48450 |
| #2 | .20119 | .24114 | 1.1857 | 48.093 | .96042 | 47.210 | .47405 | .98788 | 51.078 | .48439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9811** | **.47684** | **.02826** | **.50233** | **1.9483** | F **.51270** | **1.0972** | **1.9423** | **.96253** | **.96060** |
| Stddev | .0024 | .00304 | .00393 | .00128 | .0014 | .01800 | .0385 | .0040 | .00133 | .00057 |
| %RSD | .02402 | .63840 | 13.891 | .25497 | .07059 | 3.5106 | 3.5106 | .20343 | .13809 | .05889 |
| #1 | 9.9794 | .47900 | .03104 | .50143 | 1.9492 | .52542 | 1.1244 | 1.9395 | .96159 | .96020 |
| #2 | 9.9828 | .47469 | .02549 | .50324 | 1.9473 | .49997 | 1.0699 | 1.9451 | .96347 | .96100 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 7.0000 | | | | |
| Low Limit | | | | | | 1.0000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97797** | **1.8936** | **2.1238** | **.47596** | **.47940** | **.48897** |
| Stddev | .00029 | .0031 | .0623 | .00044 | .00117 | .00249 |
| %RSD | .02948 | .16468 | 2.9355 | .09264 | .24361 | .50938 |
| #1 | .97817 | 1.8914 | 2.1679 | .47565 | .48022 | .48721 |
| #2 | .97777 | 1.8958 | 2.0797 | .47627 | .47857 | .49073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8266.3** | **84684.** | **8578.6** |
| Stddev | 20.9 | 235. | 12.5 |
| %RSD | .25326 | .27767 | .14577 |
| #1 | 8281.1 | 84517. | 8587.5 |
| #2 | 8251.5 | 84850. | 8569.8 |

Sample Name: 280-42473-a-1-a  Acquired: 5/23/2013 14:56:41  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00098** | **73.437** | **.02839** | **.02588** | **.76612** | **.00426** | W **.05770** | **41.321** | **.00285** | **.07178** |
| Stddev | .00031 | .097 | .00021 | .00007 | .00256 | .00001 | .00275 | .128 | .00001 | .00047 |
| %RSD | 31.784 | .13251 | .72521 | .26332 | .33402 | .28115 | 4.7633 | .30916 | .26738 | .65667 |
| #1 | -.00076 | 73.506 | .02854 | .02583 | .76793 | .00425 | .05575 | 41.412 | .00285 | .07212 |
| #2 | -.00119 | 73.369 | .02825 | .02592 | .76431 | .00427 | .05964 | 41.231 | .00284 | .07145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07420** | **.12857** | **252.24** | **15.734** | **.06905** | **45.690** | **3.6741** | **.00299** | **2.2293** | **.08542** |
| Stddev | .00021 | .00045 | .57 | .058 | .00284 | .076 | .0571 | .00030 | .0044 | .00048 |
| %RSD | .28780 | .34658 | .22488 | .36819 | 4.1196 | .16721 | 1.5529 | 10.036 | .19696 | .55741 |
| #1 | .07405 | .12889 | 252.64 | 15.775 | .07106 | 45.636 | 3.6338 | .00277 | 2.2324 | .08509 |
| #2 | .07435 | .12826 | 251.84 | 15.693 | .06704 | 45.744 | 3.7145 | .00320 | 2.2262 | .08576 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.9136** | **.04083** | **1.6804** | **-.00328** | **.00041** | **3.8176** | **8.1696** | **.04740** | **.23128** | **.04564** |
| Stddev | .0186 | .00246 | .0001 | .00117 | .00154 | .0586 | .1255 | .00023 | .00064 | .00264 |
| %RSD | .18781 | 6.0280 | .00696 | 35.766 | 375.75 | 1.5357 | 1.5357 | .47622 | .27666 | 5.7882 |
| #1 | 9.9005 | .03909 | 1.6804 | -.00411 | -.00068 | 3.8590 | 8.2584 | .04724 | .23173 | .04377 |
| #2 | 9.9268 | .04257 | 1.6805 | -.00245 | .00150 | 3.7761 | 8.0809 | .04756 | .23083 | .04751 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **22.002** | **.00067** | F **-.11433** | **.64595** | **.46443** | **.26315** |
| Stddev | .263 | .00115 | .00588 | .00000 | .00053 | .00062 |
| %RSD | 1.1949 | 171.04 | 5.1385 | .00024 | .11485 | .23707 |
| #1 | 21.817 | -.00014 | -.11849 | .64595 | .46406 | .26271 |
| #2 | 22.188 | .00148 | -.11018 | .64595 | .46481 | .26359 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9488.7** | **95920.** | **9982.4** |
| Stddev | 20.9 | 435. | 33.6 |
| %RSD | .21988 | .45306 | .33635 |
| #1 | 9473.9 | 96227. | 9958.6 |
| #2 | 9503.5 | 95612. | 10006. |

Sample Name: 280-42473-a-1-aSD@5 Acquired: 5/23/2013 14:59:09 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00114** | **16.393** | **.00550** | **.00866** | **.16981** | **.00095** | **.01457** | **9.1473** | **.00080** | **.01689** |
| Stddev | .00024 | .020 | .00443 | .00019 | .00074 | .00008 | .00519 | .0276 | .00014 | .00003 |
| %RSD | 21.082 | .12236 | 80.651 | 2.1465 | .43563 | 7.9555 | 35.641 | .30120 | 17.594 | .15894 |
| #1 | -.00131 | 16.379 | .00236 | .00879 | .17034 | .00089 | .01824 | 9.1668 | .00070 | .01687 |
| #2 | -.00097 | 16.408 | .00863 | .00853 | .16929 | .00100 | .01090 | 9.1278 | .00090 | .01691 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01654** | **.02814** | **57.198** | **3.5217** | **.01449** | **10.229** | **.81658** | **.00064** | **.46774** | **.01942** |
| Stddev | .00011 | .00003 | .053 | .0159 | .00119 | .018 | .00145 | .00005 | .00067 | .00037 |
| %RSD | .64189 | .12147 | .09268 | .45055 | 8.2147 | .17218 | .17707 | 7.7744 | .14397 | 1.9253 |
| #1 | .01662 | .02817 | 57.236 | 3.5104 | .01365 | 10.216 | .81556 | .00060 | .46726 | .01968 |
| #2 | .01647 | .02812 | 57.161 | 3.5329 | .01533 | 10.241 | .81760 | .00067 | .46822 | .01916 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.1979** | **.00951** | **.36674** | **-.00173** | **.00294** | **.89564** | **1.9167** | **.00942** | **.05161** | **.01103** |
| Stddev | .0003 | .00107 | .00275 | .00029 | .00109 | .00708 | .0151 | .00041 | .00007 | .00092 |
| %RSD | .01352 | 11.288 | .75118 | 16.830 | 37.104 | .79002 | .79002 | 4.3897 | .13513 | 8.3434 |
| #1 | 2.1981 | .01027 | .36479 | -.00194 | .00217 | .90065 | 1.9274 | .00971 | .05156 | .01168 |
| #2 | 2.1977 | .00875 | .36869 | -.00153 | .00371 | .89064 | 1.9060 | .00912 | .05166 | .01037 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.7984** | **.00138** | **-.03107** | **.14141** | **.10661** | **.05714** |
| Stddev | .0125 | .00055 | .01551 | .00009 | .00032 | .00095 |
| %RSD | .26016 | 40.081 | 49.928 | .06344 | .30162 | 1.6675 |
| #1 | 4.7895 | .00099 | -.04204 | .14135 | .10639 | .05782 |
| #2 | 4.8072 | .00176 | -.02010 | .14147 | .10684 | .05647 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8920.0** | **91265.** | **8979.5** |
| Stddev | 17.0 | 123. | 92.2 |
| %RSD | .19106 | .13427 | 1.0267 |
| #1 | 8932.1 | 91352. | 8914.4 |
| #2 | 8908.0 | 91179. | 9044.7 |

Sample Name: 280-42473-a-1-b du  Acquired: 5/23/2013 15:01:25  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00122** | **76.356** | **.02953** | **.02733** | **.85927** | **.00437** | W **.05448** | **43.753** | **.00279** | **.07586** |
| Stddev | .00067 | .229 | .00103 | .00059 | .00035 | .00005 | .00570 | .137 | .00015 | .00044 |
| %RSD | 54.653 | .29944 | 3.4946 | 2.1518 | .04075 | 1.2251 | 10.463 | .31230 | 5.3915 | .58258 |
| #1 | -.00169 | 76.518 | .03025 | .02692 | .85903 | .00434 | .05045 | 43.656 | .00290 | .07618 |
| #2 | -.00075 | 76.194 | .02880 | .02775 | .85952 | .00441 | .05851 | 43.849 | .00269 | .07555 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07591** | **.13674** | **260.66** | **16.049** | **.07230** | **48.410** | **3.8072** | **.00281** | **2.3634** | **.09344** |
| Stddev | .00004 | .00034 | .24 | .043 | .00250 | .064 | .0063 | .00002 | .0111 | .00004 |
| %RSD | .04813 | .24819 | .09085 | .26698 | 3.4630 | .13261 | .16527 | .59141 | .47109 | .04113 |
| #1 | .07594 | .13698 | 260.82 | 16.018 | .07407 | 48.364 | 3.8027 | .00280 | 2.3712 | .09341 |
| #2 | .07588 | .13650 | 260.49 | 16.079 | .07053 | 48.455 | 3.8116 | .00282 | 2.3555 | .09347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.249** | **.04085** | **1.8080** | **-.00422** | **-.00071** | **3.8818** | **8.3070** | **.04897** | **.24983** | **.05022** |
| Stddev | .004 | .00104 | .0069 | .00019 | .00165 | .0275 | .0588 | .00055 | .00024 | .00230 |
| %RSD | .03441 | 2.5478 | .38195 | 4.5765 | 233.01 | .70823 | .70823 | 1.1177 | .09600 | 4.5838 |
| #1 | 10.251 | .04012 | 1.8129 | -.00409 | -.00188 | 3.8623 | 8.2654 | .04858 | .24966 | .04859 |
| #2 | 10.246 | .04159 | 1.8032 | -.00436 | .00046 | 3.9012 | 8.3486 | .04936 | .25000 | .05184 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **23.368** | **.00116** | F **-.12201** | **.66975** | **.49058** | **.28101** |
| Stddev | .085 | .00061 | .03295 | .00128 | .00163 | .00113 |
| %RSD | .36349 | 52.917 | 27.010 | .19129 | .33252 | .40214 |
| #1 | 23.308 | .00159 | -.09871 | .66885 | .48943 | .28021 |
| #2 | 23.428 | .00073 | -.14531 | .67066 | .49173 | .28181 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9539.7** | **96431.** | **10149.** |
| Stddev | 49.4 | 324. | 62. |
| %RSD | .51824 | .33614 | .61420 |
| #1 | 9574.7 | 96660. | 10105. |
| #2 | 9504.8 | 96202. | 10193. |

Sample Name: 280-42473-a-1-c ms  Acquired: 5/23/2013 15:03:54  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04411** | **93.015** | **.82469** | **.85074** | **2.6613** | **.04625** | F **1.9145** | **100.89** | **.08941** | **.49106** |
| Stddev | .00077 | .148 | .00170 | .00009 | .0034 | .00002 | .0048 | .19 | .00050 | .00035 |
| %RSD | 1.7495 | .15964 | .20633 | .01103 | .12715 | .04736 | .25096 | .18474 | .55437 | .07112 |
| #1 | .04357 | 92.910 | .82590 | .85067 | 2.6589 | .04626 | 1.9179 | 101.02 | .08906 | .49131 |
| #2 | .04466 | 93.120 | .82349 | .85080 | 2.6637 | .04623 | 1.9111 | 100.76 | .08976 | .49081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26080** | **.35044** | **281.87** | **60.893** | **.93190** | **97.247** | **4.7961** | **.84443** | **49.742** | **.51412** |
| Stddev | .00031 | .00150 | .62 | .061 | .00199 | .445 | .0031 | .00060 | .418 | .00044 |
| %RSD | .12040 | .42775 | .22159 | .10083 | .21323 | .45730 | .06518 | .07063 | .83958 | .08558 |
| #1 | .26102 | .34938 | 281.43 | 60.850 | .93049 | 96.932 | 4.7983 | .84485 | 49.447 | .51443 |
| #2 | .26058 | .35150 | 282.31 | 60.937 | .93330 | 97.561 | 4.7938 | .84401 | 50.037 | .51381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **16.706** | **.45072** | **1.7623** | **.22448** | **1.6363** | **4.6320** | **9.9124** | **1.3237** | **1.1561** | **.91181** |
| Stddev | .001 | .00119 | .0035 | .00261 | .0023 | .0204 | .0435 | .0011 | .0003 | .00826 |
| %RSD | .00445 | .26324 | .20015 | 1.1611 | .13970 | .43935 | .43935 | .08078 | .02612 | .90564 |
| #1 | 16.706 | .45156 | 1.7598 | .22263 | 1.6346 | 4.6176 | 9.8816 | 1.3244 | 1.1559 | .90597 |
| #2 | 16.705 | .44989 | 1.7647 | .22632 | 1.6379 | 4.6463 | 9.9432 | 1.3229 | 1.1563 | .91765 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **24.029** | **1.5818** | **1.7099** | **1.1888** | **.93032** | **.73202** |
| Stddev | .129 | .0005 | .0181 | .0057 | .00279 | .00088 |
| %RSD | .53853 | .03369 | 1.0587 | .47872 | .29936 | .11969 |
| #1 | 24.121 | 1.5815 | 1.7227 | 1.1847 | .92835 | .73140 |
| #2 | 23.938 | 1.5822 | 1.6971 | 1.1928 | .93229 | .73264 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | |
| Low Limit | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9174.2** | **92603.** | **9809.4** |
| Stddev | 12.5 | 132. | 37.7 |
| %RSD | .13609 | .14211 | .38465 |
| #1 | 9165.3 | 92510. | 9782.7 |
| #2 | 9183.0 | 92696. | 9836.0 |

Sample Name: 280-42473-a-2-a  Acquired: 5/23/2013 15:06:17  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00148** | **73.161** | **.02859** | **.01925** | **.81662** | **.00420** | W **.05398** | **40.053** | **.00296** | **.07475** |
| Stddev | .00001 | .381 | .00056 | .00011 | .00059 | .00008 | .00348 | .007 | .00000 | .00006 |
| %RSD | .96111 | .52047 | 1.9523 | .57863 | .07263 | 1.9835 | 6.4514 | .01673 | .12838 | .08605 |
| #1 | -.00149 | 72.892 | .02898 | .01917 | .81620 | .00414 | .05644 | 40.058 | .00297 | .07471 |
| #2 | -.00147 | 73.431 | .02819 | .01933 | .81704 | .00426 | .05151 | 40.049 | .00296 | .07480 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07868** | **.13635** | **253.27** | **15.782** | **.07056** | **45.665** | **3.6687** | **.00320** | **2.0068** | **.09485** |
| Stddev | .00006 | .00047 | .83 | .030 | .00501 | .037 | .0249 | .00002 | .0175 | .00008 |
| %RSD | .08020 | .34399 | .32941 | .18900 | 7.1061 | .08068 | .67738 | .65631 | .87045 | .07952 |
| #1 | .07872 | .13668 | 252.68 | 15.761 | .06702 | 45.691 | 3.6863 | .00322 | 1.9944 | .09479 |
| #2 | .07863 | .13602 | 253.86 | 15.803 | .07411 | 45.639 | 3.6512 | .00319 | 2.0192 | .09490 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.8604** | **.05080** | **1.4938** | **-.00241** | **-.00281** | **2.8785** | **6.1599** | **.04570** | **.23464** | **.04909** |
| Stddev | .0253 | .00002 | .0053 | .00012 | .00248 | .0529 | .1132 | .00121 | .00012 | .00042 |
| %RSD | .25656 | .04132 | .35771 | 5.1505 | 88.000 | 1.8376 | 1.8376 | 2.6514 | .05172 | .85756 |
| #1 | 9.8425 | .05081 | 1.4976 | -.00250 | -.00106 | 2.9159 | 6.2400 | .04484 | .23472 | .04880 |
| #2 | 9.8782 | .05078 | 1.4900 | -.00232 | -.00457 | 2.8411 | 6.0799 | .04656 | .23455 | .04939 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **21.475** | **.00147** | F **-.11480** | **.66085** | **.48401** | **.26283** |
| Stddev | .177 | .00020 | .00866 | .00110 | .00074 | .00104 |
| %RSD | .82257 | 13.829 | 7.5395 | .16682 | .15278 | .39464 |
| #1 | 21.351 | .00133 | -.12092 | .66007 | .48349 | .26356 |
| #2 | 21.600 | .00162 | -.10868 | .66162 | .48454 | .26210 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9455.1** | **94738.** | **9820.7** |
| Stddev | 5.5 | 310. | 61.7 |
| %RSD | .05810 | .32734 | .62858 |
| #1 | 9451.2 | 94957. | 9864.3 |
| #2 | 9459.0 | 94518. | 9777.0 |

Sample Name: 280-42473-a-3-a  Acquired: 5/23/2013 15:08:45  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **96.489** | **.03254** | **.01473** | **.89221** | **.00487** | W **.05096** | **40.990** | **.00320** | **.08108** |
| Stddev | .00035 | .234 | .00080 | .00021 | .00362 | .00024 | .00014 | .191 | .00029 | .00045 |
| %RSD | 38.540 | .24280 | 2.4516 | 1.4483 | .40556 | 5.0174 | .27310 | .46583 | 8.9222 | .54997 |
| #1 | -.00065 | 96.323 | .03198 | .01488 | .88965 | .00504 | .05106 | 40.855 | .00300 | .08077 |
| #2 | -.00114 | 96.654 | .03310 | .01458 | .89477 | .00470 | .05086 | 41.125 | .00341 | .08140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10946** | **.15402** | **264.75** | **16.903** | **.08875** | **49.480** | **4.1466** | **.00203** | **2.0749** | **.11087** |
| Stddev | .00033 | .00036 | .80 | .028 | .00224 | .089 | .0283 | .00022 | .0062 | .00022 |
| %RSD | .30230 | .23558 | .30133 | .16833 | 2.5265 | .17974 | .68294 | 10.609 | .29691 | .19736 |
| #1 | .10922 | .15376 | 264.18 | 16.883 | .08716 | 49.543 | 4.1266 | .00218 | 2.0793 | .11071 |
| #2 | .10969 | .15427 | 265.31 | 16.923 | .09034 | 49.417 | 4.1666 | .00188 | 2.0706 | .11102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.5904** | **.05052** | **.66183** | **-.00510** | **.00319** | **3.3805** | **7.2342** | **.04252** | **.22571** | **.05157** |
| Stddev | .0255 | .00101 | .00833 | .00222 | .00200 | .0015 | .0032 | .00158 | .00054 | .00146 |
| %RSD | .29674 | 1.9954 | 1.2581 | 43.463 | 62.544 | .04404 | .04404 | 3.7173 | .24090 | 2.8383 |
| #1 | 8.6085 | .04980 | .66772 | -.00667 | .00460 | 3.3794 | 7.2320 | .04364 | .22533 | .05261 |
| #2 | 8.5724 | .05123 | .65594 | -.00353 | .00178 | 3.3815 | 7.2365 | .04140 | .22610 | .05054 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **19.867** | **-.00011** | F **-.13589** | **.62721** | **.50874** | **.29104** |
| Stddev | .311 | .00042 | .02335 | .00138 | .00090 | .00219 |
| %RSD | 1.5677 | 387.11 | 17.181 | .22071 | .17648 | .75200 |
| #1 | 20.087 | .00019 | -.15240 | .62623 | .50937 | .28949 |
| #2 | 19.647 | -.00040 | -.11938 | .62819 | .50810 | .29259 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9339.4** | **94143.** | **9669.1** |
| Stddev | 63.6 | 480. | .3 |
| %RSD | .68142 | .50940 | .00280 |
| #1 | 9384.4 | 93804. | 9669.3 |
| #2 | 9294.4 | 94482. | 9668.9 |

Sample Name: 280-42473-a-4-a  Acquired: 5/23/2013 15:11:13  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00135** | **98.924** | **.32851** | **.01798** | **.98418** | **.00489** | **.04911** | **41.236** | **.00330** | **.08200** |
| Stddev | .00027 | .118 | .00320 | .00028 | .00056 | .00003 | .00524 | .104 | .00003 | .00029 |
| %RSD | 19.687 | .11904 | .97352 | 1.5649 | .05724 | .70876 | 10.677 | .25218 | .93123 | .35224 |
| #1 | -.00116 | 98.841 | .32625 | .01778 | .98458 | .00492 | .04540 | 41.310 | .00332 | .08179 |
| #2 | -.00154 | 99.008 | .33078 | .01817 | .98378 | .00487 | .05282 | 41.163 | .00328 | .08220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11335** | **.15620** | **265.33** | **18.987** | **.08762** | **50.081** | **4.2642** | **.00197** | **2.2403** | **.11623** |
| Stddev | .00002 | .00009 | .04 | .041 | .00105 | .114 | .0225 | .00008 | .0034 | .00021 |
| %RSD | .01820 | .05959 | .01454 | .21754 | 1.1996 | .22687 | .52675 | 3.8990 | .15137 | .18327 |
| #1 | .11336 | .15613 | 265.36 | 19.016 | .08837 | 50.000 | 4.2483 | .00202 | 2.2427 | .11608 |
| #2 | .11333 | .15626 | 265.30 | 18.957 | .08688 | 50.161 | 4.2801 | .00191 | 2.2379 | .11638 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.8008** | **.71150** | **.80537** | **-.00340** | **.00414** | **3.5526** | **7.6026** | **.04092** | **.26453** | **.05672** |
| Stddev | .0039 | .00228 | .00005 | .00119 | .00023 | .1422 | .3044 | .00045 | .00008 | .00012 |
| %RSD | .04392 | .32051 | .00619 | 34.983 | 5.6146 | 4.0039 | 4.0039 | 1.1020 | .03062 | .20748 |
| #1 | 8.8035 | .70989 | .80541 | -.00424 | .00431 | 3.6532 | 7.8179 | .04124 | .26447 | .05664 |
| #2 | 8.7980 | .71312 | .80534 | -.00256 | .00398 | 3.4520 | 7.3874 | .04060 | .26458 | .05680 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **18.972** | **.00011** | F **-.11596** | **.62243** | **.53056** | **.29122** |
| Stddev | .024 | .00073 | .01518 | .00190 | .00152 | .00034 |
| %RSD | .12701 | 637.02 | 13.092 | .30467 | .28664 | .11818 |
| #1 | 18.955 | .00063 | -.10522 | .62109 | .52948 | .29147 |
| #2 | 18.989 | -.00040 | -.12669 | .62377 | .53164 | .29098 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9251.7** | **92734.** | **9674.1** |
| Stddev | 8.6 | 188. | 4.8 |
| %RSD | .09321 | .20247 | .04983 |
| #1 | 9257.8 | 92866. | 9670.7 |
| #2 | 9245.6 | 92601. | 9677.5 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 15:13:41 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00093** | **49.371** | **-.00091** | **.00268** | **-.00003** | **.00004** | **1.0195** | **-.00586** | **.00038** | **.00039** | **.00018** | **.00011** | **50.553** |
| Stddev | .00074 | .099 | .00224 | .00039 | .00024 | .00010 | .0036 | .00078 | .00004 | .00008 | .00010 | .00026 | .023 |
| %RSD | 79.968 | .20106 | 246.15 | 14.383 | 797.04 | 244.31 | .35065 | 13.370 | 9.6829 | 20.024 | 56.258 | 223.74 | .04516 |
| #1 | -.00145 | 49.441 | -.00249 | .00241 | -.00020 | .00011 | 1.0170 | -.00530 | .00036 | .00045 | .00025 | .00030 | 50.537 |
| #2 | -.00040 | 49.301 | .00067 | .00296 | .00014 | -.00003 | 1.0221 | -.00641 | .00041 | .00034 | .00011 | -.00007 | 50.569 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17211** | **.00294** | **.03996** | **.00007** | **-.00035** | **253.68** | **.00024** | **.00466** | **-.00207** | **4.9026** | **-.00015** | **.00613** | **.00660** |
| Stddev | .05666 | .00187 | .00106 | .00000 | .00016 | .53 | .00016 | .00038 | .00002 | .0079 | .00065 | .00477 | .01559 |
| %RSD | 32.921 | 63.516 | 2.6576 | 1.6997 | 45.446 | .20862 | 69.366 | 8.2394 | 1.1681 | .16173 | 422.99 | 77.856 | 236.23 |
| #1 | .13205 | .00426 | .04071 | .00007 | -.00046 | 254.05 | .00012 | .00493 | -.00209 | 4.8970 | -.00061 | .00950 | .01762 |
| #2 | .21218 | .00162 | .03921 | .00007 | -.00024 | 253.30 | .00035 | .00439 | -.00205 | 4.9082 | .00031 | .00275 | -.00442 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01412** | **-.00037** | **.00027** | **4.9481** | **.00315** | **.00073** | **10.384** | **-.00062** | **.00106** | **-.00180** |
| Stddev | .03336 | .00064 | .00007 | .0100 | .00043 | .00105 | .024 | .00044 | .00005 | .00316 |
| %RSD | 236.23 | 171.49 | 24.138 | .20192 | 13.712 | 144.89 | .22928 | 70.818 | 4.2437 | 175.08 |
| #1 | .03771 | .00008 | .00032 | 4.9552 | .00285 | .00147 | 10.401 | -.00031 | .00109 | .00043 |
| #2 | -.00947 | -.00082 | .00023 | 4.9411 | .00346 | -.00002 | 10.367 | -.00093 | .00103 | -.00403 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8233.4** | **81942.** | **8418.2** |
| Stddev | 40.7 | 303. | 27.0 |
| %RSD | .49482 | .36964 | .32111 |
| #1 | 8204.6 | 81728. | 8399.1 |
| #2 | 8262.2 | 82156. | 8437.3 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 15:16:02 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51304** | **.51309** | **1.0033** | **.50891** | **.49717** | **.48589** | **.00086** | **4.9125** | **.49278** | **.50254** | **.50971** | **.50056** | **2.4461** | **49.054** |
| Stddev | .00277 | .00041 | .0005 | .00012 | .00181 | .00203 | .00074 | .0142 | .00044 | .00031 | .00086 | .00148 | .0092 | .091 |
| %RSD | .54031 | .08010 | .04713 | .02261 | .36356 | .41807 | 86.779 | .28965 | .09019 | .06127 | .16877 | .29633 | .37620 | .18578 |
| #1 | .51108 | .51280 | 1.0030 | .50899 | .49845 | .48733 | .00033 | 4.9226 | .49247 | .50232 | .50910 | .49951 | 2.4526 | 49.118 |
| #2 | .51500 | .51338 | 1.0036 | .50882 | .49589 | .48446 | .00138 | 4.9025 | .49310 | .50276 | .51032 | .50161 | 2.4396 | 48.990 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98709** | **20.094** | **.49614** | **.50480** | **5.0517** | **.51345** | **.99676** | **.99821** | **.00481** | **.99422** | **1.0085** | **5.1066** | **10.928** | **1.0112** |
| Stddev | .00613 | .091 | .00100 | .00064 | .0422 | .00165 | .00296 | .00313 | .00199 | .00527 | .0029 | .0093 | .020 | .0008 |
| %RSD | .62145 | .45156 | .20225 | .12743 | .83601 | .32211 | .29695 | .31373 | 41.316 | .53054 | .29129 | .18271 | .18271 | .07783 |
| #1 | .99143 | 20.030 | .49543 | .50434 | 5.0816 | .51228 | .99467 | .99600 | .00622 | .99795 | 1.0064 | 5.1000 | 10.914 | 1.0106 |
| #2 | .98275 | 20.158 | .49685 | .50525 | 5.0219 | .51462 | .99886 | 1.0004 | .00341 | .99049 | 1.0105 | 5.1132 | 10.942 | 1.0117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49508** | **.00091** | **.49868** | **1.0148** | **.03087** | **.48774** | **.50735** | **.49564** |
| Stddev | .00133 | .00046 | .00077 | .0009 | .02567 | .00210 | .00219 | .00004 |
| %RSD | .26887 | 50.103 | .15520 | .09233 | 83.144 | .43010 | .43077 | .00884 |
| #1 | .49602 | .00124 | .49923 | 1.0154 | .04902 | .48625 | .50581 | .49567 |
| #2 | .49414 | .00059 | .49813 | 1.0141 | .01272 | .48922 | .50890 | .49561 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8416.4** | **85246.** | **8540.8** |
| Stddev | 24.8 | 355. | 63.8 |
| %RSD | .29479 | .41628 | .74733 |
| #1 | 8434.0 | 85497. | 8585.9 |
| #2 | 8398.9 | 84995. | 8495.7 |

Sample Name: CCB Acquired: 5/23/2013 15:18:09 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.00043** | **-.00040** | **.00146** | **.00007** | **.00003** | **-.00035** | **.00123** | **.00010** | **-.00010** | **.00019** | **-.00008** |
| Stddev | .00019 | .00010 | .00015 | .00018 | .00015 | .00001 | .00049 | .00620 | .00018 | .00031 | .00006 | .00002 |
| %RSD | 25.574 | 23.034 | 38.364 | 12.353 | 220.01 | 39.167 | 140.21 | 501.94 | 184.72 | 298.17 | 31.603 | 25.141 |
| #1 | -.00086 | .00036 | -.00029 | .00159 | -.00004 | .00004 | -.00069 | -.00315 | .00023 | -.00032 | .00015 | -.00007 |
| #2 | -.00060 | .00050 | -.00050 | .00133 | .00018 | .00002 | .00000 | .00562 | -.00003 | .00012 | .00023 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00165** | **.06557** | W **.00374** | **.00149** | **.00003** | **.00053** | **.02256** | **.00019** | **.00033** | **-.00200** | **.00397** | **.00236** |
| Stddev | .00041 | .01975 | .00130 | .00199 | .00002 | .00002 | .00865 | .00004 | .00116 | .00047 | .00078 | .00015 |
| %RSD | 24.818 | 30.129 | 34.664 | 133.29 | 67.767 | 2.9369 | 38.347 | 20.254 | 348.43 | 23.570 | 19.578 | 6.3199 |
| #1 | .00194 | .05160 | .00282 | .00009 | .00002 | .00054 | .02868 | .00022 | -.00049 | -.00234 | .00342 | .00226 |
| #2 | .00136 | .07954 | .00466 | .00290 | .00005 | .00052 | .01645 | .00017 | .00115 | -.00167 | .00452 | .00247 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .00261 | | | | | | | | | |
| Low Limit | | | -.00261 | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00349** | **.02359** | **.05048** | **.00032** | **.00002** | **.00015** | **-.00025** | **.00066** | **.02673** | **.00009** | **.00246** | **.00077** |
| Stddev | .00185 | .00101 | .00216 | .00056 | .00005 | .00363 | .00012 | .00049 | .05838 | .00036 | .00017 | .00018 |
| %RSD | 52.990 | 4.2715 | 4.2715 | 175.26 | 192.85 | 2368.5 | 47.465 | 74.910 | 218.45 | 404.21 | 7.0393 | 23.056 |
| #1 | .00218 | .02288 | .04896 | -.00008 | .00006 | .00272 | -.00033 | .00031 | -.01456 | -.00016 | .00259 | .00090 |
| #2 | .00480 | .02430 | .05200 | .00071 | -.00001 | -.00241 | -.00016 | .00101 | .06801 | .00034 | .00234 | .00065 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8290.5** | **85315.** | **8294.3** |
| Stddev | 28.7 | 270. | 45.5 |
| %RSD | .34571 | .31646 | .54841 |
| #1 | 8310.8 | 85124. | 8262.2 |
| #2 | 8270.3 | 85506. | 8326.5 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 15:20:23 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00946** | **.10751** | **.01417** | **.10556** | **.01007** | **.00097** | **.11825** | **.20121** | **.00498** | **.01064** | **.01072** | **.01529** | **.10208** | **3.0848** |
| Stddev | .00008 | .00082 | .00203 | .00008 | .00014 | .00005 | .00274 | .00088 | .00012 | .00005 | .00003 | .00023 | .00028 | .0843 |
| %RSD | .82983 | .76447 | 14.326 | .07976 | 1.3741 | 4.7425 | 2.3200 | .43578 | 2.4571 | .47061 | .28188 | 1.4761 | .27798 | 2.7313 |
| #1 | .00941 | .10693 | .01561 | .10550 | .00997 | .00094 | .11631 | .20183 | .00489 | .01068 | .01074 | .01513 | .10188 | 3.1444 |
| #2 | .00952 | .10809 | .01274 | .10562 | .01017 | .00100 | .12019 | .20059 | .00506 | .01061 | .01069 | .01545 | .10228 | 3.0252 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01259** | **.21520** | **.01026** | **.02091** | **1.0235** | **.04303** | **2.9932** | **.00819** | **.00274** | **.01015** | **.01942** | **.54258** | **1.1611** | **.10638** |
| Stddev | .00237 | .00174 | .00004 | .00021 | .0274 | .00023 | .0019 | .00074 | .00145 | .00040 | .00283 | .00573 | .0123 | .00049 |
| %RSD | 18.820 | .80752 | .36547 | 1.0176 | 2.6770 | .53096 | .06407 | 9.0273 | 52.992 | 3.9310 | 14.577 | 1.0561 | 1.0561 | .45864 |
| #1 | .01427 | .21397 | .01023 | .02076 | 1.0041 | .04287 | 2.9945 | .00871 | .00171 | .00987 | .02142 | .53853 | 1.1525 | .10604 |
| #2 | .01092 | .21643 | .01028 | .02106 | 1.0429 | .04319 | 2.9918 | .00767 | .00377 | .01044 | .01742 | .54664 | 1.1698 | .10673 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01009** | **.01356** | **.00998** | **.01653** | **.06327** | **.00958** | **.02288** | **.01500** |
| Stddev | .00005 | .00269 | .00054 | .00151 | .00925 | .00050 | .00002 | .00027 |
| %RSD | .51648 | 19.843 | 5.4054 | 9.1057 | 14.618 | 5.2255 | .09383 | 1.8044 |
| #1 | .01005 | .01546 | .01036 | .01759 | .05673 | .00923 | .02287 | .01519 |
| #2 | .01012 | .01166 | .00960 | .01547 | .06980 | .00993 | .02290 | .01481 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8440.2** | **85932.** | **8372.4** |
| Stddev | 29.9 | 172. | 45.9 |
| %RSD | .35473 | .19986 | .54811 |
| #1 | 8461.3 | 85811. | 8404.9 |
| #2 | 8419.0 | 86053. | 8340.0 |

Sample Name: 280-42473-a-5-a  Acquired: 5/23/2013 15:22:38  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00129** | **103.28** | **.29578** | **.01682** | **1.0080** | **.00507** | **.04807** | **42.160** | **.00314** | **.08407** |
| Stddev | .00021 | .27 | .00086 | .00027 | .0035 | .00007 | .00130 | .094 | .00010 | .00013 |
| %RSD | 15.951 | .25758 | .28915 | 1.6113 | .34311 | 1.3409 | 2.6982 | .22194 | 3.2267 | .15166 |
| #1 | -.00114 | 103.09 | .29639 | .01701 | 1.0055 | .00512 | .04898 | 42.093 | .00322 | .08398 |
| #2 | -.00143 | 103.47 | .29518 | .01663 | 1.0104 | .00502 | .04715 | 42.226 | .00307 | .08416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11619** | **.16341** | **271.47** | **21.031** | **.09239** | **52.675** | **4.4986** | **.00222** | **2.2302** | **.12897** |
| Stddev | .00016 | .00003 | .99 | .012 | .00168 | .084 | .0071 | .00034 | .0162 | .00035 |
| %RSD | .13707 | .01903 | .36312 | .05564 | 1.8192 | .15947 | .15744 | 15.197 | .72490 | .26952 |
| #1 | .11630 | .16343 | 270.77 | 21.040 | .09358 | 52.734 | 4.5036 | .00198 | 2.2187 | .12922 |
| #2 | .11608 | .16339 | 272.17 | 21.023 | .09120 | 52.615 | 4.4936 | .00246 | 2.2416 | .12873 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.9112** | **.76919** | **.81678** | **-.00304** | **.00475** | **3.8011** | **8.1343** | **.03894** | **.26060** | **.05174** |
| Stddev | .0240 | .00158 | .00340 | .00357 | .00186 | .1299 | .2780 | .00149 | .00051 | .00173 |
| %RSD | .26992 | .20489 | .41683 | 117.67 | 39.164 | 3.4180 | 3.4180 | 3.8212 | .19650 | 3.3487 |
| #1 | 8.8942 | .77031 | .81918 | -.00556 | .00343 | 3.7092 | 7.9377 | .03999 | .26023 | .05297 |
| #2 | 8.9283 | .76808 | .81437 | -.00051 | .00607 | 3.8929 | 8.3309 | .03788 | .26096 | .05052 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **18.360** | **.00007** | W **-.09303** | **.61168** | **.53977** | **.29394** |
| Stddev | .078 | .00142 | .02724 | .00223 | .00126 | .00008 |
| %RSD | .42344 | 1919.1 | 29.280 | .36407 | .23279 | .02821 |
| #1 | 18.415 | -.00093 | -.11229 | .61326 | .54066 | .29388 |
| #2 | 18.305 | .00108 | -.07377 | .61011 | .53889 | .29399 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 45.000 | | | |
| Low Limit | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9113.1** | **91273.** | **9416.5** |
| Stddev | 18.8 | 374. | 52.7 |
| %RSD | .20620 | .40949 | .55928 |
| #1 | 9126.4 | 91008. | 9453.8 |
| #2 | 9099.8 | 91537. | 9379.3 |

Sample Name: 280-42473-a-6-a  Acquired: 5/23/2013 15:25:06  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00119** | **95.217** | **.03480** | **.01688** | **.89644** | **.00491** | W **.05204** | **42.237** | **.00342** | **.08349** |
| Stddev | .00009 | .429 | .00083 | .00017 | .00378 | .00001 | .00102 | .105 | .00007 | .00016 |
| %RSD | 7.7591 | .45094 | 2.3725 | .97771 | .42167 | .26476 | 1.9638 | .24975 | 2.1330 | .18573 |
| #1 | -.00113 | 94.914 | .03539 | .01700 | .89376 | .00490 | .05276 | 42.162 | .00336 | .08338 |
| #2 | -.00126 | 95.521 | .03422 | .01677 | .89911 | .00492 | .05132 | 42.312 | .00347 | .08360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09810** | **.15390** | **281.45** | **19.961** | **.08701** | **52.904** | **4.2786** | **.00211** | **2.1847** | **.10926** |
| Stddev | .00024 | .00037 | 1.72 | .029 | .00088 | .134 | .0216 | .00008 | .0218 | .00009 |
| %RSD | .24090 | .24021 | .61177 | .14450 | 1.0075 | .25281 | .50359 | 3.7141 | .99890 | .08678 |
| #1 | .09827 | .15416 | 280.23 | 19.940 | .08639 | 52.810 | 4.2939 | .00216 | 2.1692 | .10933 |
| #2 | .09793 | .15364 | 282.67 | 19.981 | .08763 | 52.999 | 4.2634 | .00205 | 2.2001 | .10920 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.8660** | **.05276** | **.84463** | **-.00449** | **.00507** | **3.2653** | **6.9876** | **.04492** | **.22023** | **.05455** |
| Stddev | .0163 | .00112 | .00417 | .00151 | .00313 | .1277 | .2733 | .00082 | .00043 | .00299 |
| %RSD | .16545 | 2.1312 | .49360 | 33.530 | 61.735 | 3.9108 | 3.9108 | 1.8251 | .19647 | 5.4885 |
| #1 | 9.8545 | .05197 | .84168 | -.00343 | .00728 | 3.3556 | 7.1809 | .04550 | .21992 | .05666 |
| #2 | 9.8775 | .05356 | .84758 | -.00555 | .00286 | 3.1750 | 6.7944 | .04434 | .22054 | .05243 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **21.030** | **.00162** | F **-.14788** | **.66249** | **.54380** | **.29627** |
| Stddev | .073 | .00123 | .03737 | .00005 | .00090 | .00159 |
| %RSD | .34575 | 76.004 | 25.269 | .00783 | .16551 | .53550 |
| #1 | 21.081 | .00249 | -.17430 | .66246 | .54316 | .29515 |
| #2 | 20.978 | .00075 | -.12146 | .66253 | .54444 | .29739 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9214.8** | **91896.** | **9477.9** |
| Stddev | 42.9 | 430. | 25.0 |
| %RSD | .46516 | .46822 | .26365 |
| #1 | 9184.5 | 92200. | 9495.6 |
| #2 | 9245.1 | 91591. | 9460.3 |

Sample Name: 280-42473-a-7-a  Acquired: 5/23/2013 15:27:35  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00129** | **91.602** | **.03181** | **.01756** | **.88416** | **.00490** | W **.05521** | **40.465** | **.00333** | **.08099** |
| Stddev | .00020 | .078 | .00014 | .00043 | .00127 | .00009 | .00028 | .064 | .00006 | .00014 |
| %RSD | 15.584 | .08518 | .45038 | 2.4380 | .14342 | 1.7762 | .50666 | .15738 | 1.8920 | .17126 |
| #1 | -.00143 | 91.657 | .03171 | .01786 | .88506 | .00484 | .05541 | 40.510 | .00337 | .08108 |
| #2 | -.00115 | 91.546 | .03191 | .01726 | .88327 | .00496 | .05502 | 40.420 | .00328 | .08089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10474** | **.15153** | **271.52** | **18.925** | **.08387** | **50.352** | **4.2012** | **.00215** | **2.1529** | **.10532** |
| Stddev | .00018 | .00016 | .40 | .014 | .00203 | .110 | .0143 | .00005 | .0016 | .00015 |
| %RSD | .17295 | .10697 | .14790 | .07354 | 2.4199 | .21846 | .33943 | 2.2025 | .07399 | .14023 |
| #1 | .10461 | .15142 | 271.81 | 18.915 | .08531 | 50.274 | 4.2113 | .00219 | 2.1540 | .10543 |
| #2 | .10486 | .15164 | 271.24 | 18.935 | .08244 | 50.430 | 4.1911 | .00212 | 2.1518 | .10522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.5988** | **.05120** | **.73738** | **-.00278** | **.00062** | **4.1884** | **8.9632** | **.05058** | **.21229** | **.05778** |
| Stddev | .0114 | .00049 | .00780 | .00276 | .00285 | .0438 | .0937 | .00008 | .00006 | .00177 |
| %RSD | .11828 | .96320 | 1.0578 | 99.435 | 460.02 | 1.0450 | 1.0450 | .15974 | .02653 | 3.0598 |
| #1 | 9.6068 | .05155 | .73186 | -.00082 | .00263 | 4.2194 | 9.0294 | .05063 | .21233 | .05653 |
| #2 | 9.5907 | .05085 | .74289 | -.00473 | -.00140 | 4.1575 | 8.8970 | .05052 | .21225 | .05903 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **20.248** | **.00058** | F **-.12726** | **.65004** | **.51285** | **.28617** |
| Stddev | .100 | .00019 | .00194 | .00254 | .00094 | .00137 |
| %RSD | .49157 | 31.942 | 1.5254 | .39044 | .18352 | .47960 |
| #1 | 20.178 | .00045 | -.12589 | .64825 | .51219 | .28714 |
| #2 | 20.319 | .00071 | -.12863 | .65184 | .51352 | .28520 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9232.4** | **91609.** | **9393.3** |
| Stddev | 49.8 | 73. | 32.4 |
| %RSD | .53981 | .07969 | .34519 |
| #1 | 9197.1 | 91661. | 9416.3 |
| #2 | 9267.6 | 91557. | 9370.4 |

Sample Name: 280-42473-a-8-a  Acquired: 5/23/2013 15:30:05  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00118** | **83.016** | **.04086** | **.00986** | **.78554** | **.00433** | W **.05232** | **39.945** | **.00399** | **.08485** |
| Stddev | .00030 | .439 | .00066 | .00055 | .00237 | .00007 | .00131 | .028 | .00006 | .00023 |
| %RSD | 25.542 | .52844 | 1.6264 | 5.5487 | .30156 | 1.5185 | 2.5040 | .06884 | 1.4676 | .27389 |
| #1 | -.00140 | 82.706 | .04133 | .00947 | .78386 | .00437 | .05324 | 39.925 | .00403 | .08469 |
| #2 | -.00097 | 83.326 | .04039 | .01024 | .78721 | .00428 | .05139 | 39.964 | .00395 | .08502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09809** | **.17049** | **257.20** | **14.376** | **.07367** | **44.622** | **4.1329** | **.00242** | **1.9193** | **.09757** |
| Stddev | .00009 | .00035 | .80 | .031 | .00295 | .066 | .0333 | .00019 | .0099 | .00017 |
| %RSD | .09169 | .20812 | .31139 | .21746 | 4.0036 | .14734 | .80570 | 7.9385 | .51645 | .17336 |
| #1 | .09803 | .17074 | 256.64 | 14.398 | .07575 | 44.668 | 4.1564 | .00228 | 1.9123 | .09769 |
| #2 | .09815 | .17024 | 257.77 | 14.354 | .07158 | 44.575 | 4.1093 | .00255 | 1.9263 | .09745 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.1201** | **.06730** | **5.0372** | **-.00715** | **.00138** | **3.0262** | **6.4761** | **.04293** | **.21432** | **.04682** |
| Stddev | .0170 | .00017 | .0013 | .00136 | .00316 | .0435 | .0931 | .00066 | .00010 | .00418 |
| %RSD | .18663 | .25071 | .02637 | 19.007 | 228.70 | 1.4375 | 1.4375 | 1.5329 | .04799 | 8.9259 |
| #1 | 9.1081 | .06718 | 5.0362 | -.00619 | -.00085 | 3.0570 | 6.5419 | .04339 | .21425 | .04978 |
| #2 | 9.1322 | .06742 | 5.0381 | -.00811 | .00361 | 2.9955 | 6.4103 | .04246 | .21439 | .04387 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **19.832** | **.00034** | F **-.10357** | **.61421** | **.57111** | **.26150** |
| Stddev | .123 | .00023 | .02063 | .00107 | .00030 | .00008 |
| %RSD | .61779 | 68.181 | 19.920 | .17417 | .05232 | .02974 |
| #1 | 19.918 | .00018 | -.11815 | .61497 | .57132 | .26155 |
| #2 | 19.745 | .00050 | -.08898 | .61346 | .57090 | .26144 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9145.5** | **91071.** | **9387.7** |
| Stddev | 7.1 | 147. | 20.5 |
| %RSD | .07738 | .16181 | .21860 |
| #1 | 9150.5 | 90967. | 9373.2 |
| #2 | 9140.5 | 91175. | 9402.2 |

Sample Name: 280-42473-a-9-a  Acquired: 5/23/2013 15:32:34  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00105** | **62.637** | **.02439** | **.00659** | **.65600** | **.00380** | W **.05360** | **36.614** | **.00282** | **.06845** |
| Stddev | .00052 | .134 | .00248 | .00045 | .00037 | .00010 | .00265 | .038 | .00021 | .00096 |
| %RSD | 49.676 | .21322 | 10.172 | 6.7746 | .05644 | 2.6430 | 4.9382 | .10443 | 7.5966 | 1.4088 |
| #1 | -.00142 | 62.542 | .02263 | .00690 | .65573 | .00373 | .05173 | 36.641 | .00266 | .06914 |
| #2 | -.00068 | 62.731 | .02614 | .00627 | .65626 | .00387 | .05547 | 36.587 | .00297 | .06777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06732** | **.12763** | **239.80** | **13.809** | **.05924** | **44.472** | **3.2589** | **.00231** | **1.7427** | **.08511** |
| Stddev | .00017 | .00050 | .63 | .072 | .00013 | .054 | .0160 | .00020 | .0080 | .00048 |
| %RSD | .24895 | .39040 | .26090 | .52013 | .22091 | .12132 | .49151 | 8.5460 | .46053 | .56638 |
| #1 | .06720 | .12798 | 239.35 | 13.758 | .05933 | 44.510 | 3.2702 | .00245 | 1.7371 | .08477 |
| #2 | .06743 | .12727 | 240.24 | 13.859 | .05915 | 44.433 | 3.2476 | .00217 | 1.7484 | .08545 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.4231** | **.04699** | **.72660** | **-.00460** | **.00360** | **3.0468** | **6.5202** | **.04522** | **.17338** | **.04669** |
| Stddev | .0054 | .00022 | .00318 | .00281 | .00009 | .0202 | .0432 | .00029 | .00005 | .00046 |
| %RSD | .05718 | .47029 | .43774 | 61.022 | 2.4429 | .66235 | .66235 | .64150 | .02852 | .98446 |
| #1 | 9.4193 | .04714 | .72435 | -.00658 | .00353 | 3.0611 | 6.5508 | .04502 | .17334 | .04702 |
| #2 | 9.4270 | .04683 | .72885 | -.00261 | .00366 | 3.0326 | 6.4897 | .04543 | .17341 | .04637 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **21.697** | **.00127** | F **-.12881** | **.61590** | **.44084** | **.24794** |
| Stddev | .274 | .00288 | .03257 | .00080 | .00196 | .00317 |
| %RSD | 1.2624 | 226.06 | 25.287 | .12976 | .44400 | 1.2783 |
| #1 | 21.504 | -.00076 | -.15184 | .61646 | .44223 | .25019 |
| #2 | 21.891 | .00331 | -.10578 | .61533 | .43946 | .24570 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9155.5** | **92320.** | **9372.5** |
| Stddev | 2.6 | 133. | 56.4 |
| %RSD | .02795 | .14396 | .60122 |
| #1 | 9153.7 | 92226. | 9412.3 |
| #2 | 9157.3 | 92414. | 9332.6 |

Sample Name: 280-42473-a-10-a  Acquired: 5/23/2013 15:35:05  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00087** | **66.454** | **.02517** | **.00819** | **.71732** | **.00420** | W **.05675** | **38.039** | **.00296** | **.07536** |
| Stddev | .00020 | .287 | .00031 | .00012 | .00199 | .00003 | .00339 | .110 | .00006 | .00027 |
| %RSD | 23.202 | .43149 | 1.2311 | 1.4993 | .27784 | .70917 | 5.9814 | .28963 | 2.0840 | .36030 |
| #1 | -.00101 | 66.252 | .02539 | .00827 | .71591 | .00417 | .05435 | 37.962 | .00292 | .07517 |
| #2 | -.00073 | 66.657 | .02495 | .00810 | .71873 | .00422 | .05915 | 38.117 | .00300 | .07555 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07419** | **.12832** | **259.88** | **14.890** | **.06582** | **47.600** | **3.5501** | **.00236** | **1.7325** | **.08916** |
| Stddev | .00008 | .00008 | 1.00 | .025 | .00039 | .074 | .0097 | .00002 | .0068 | .00004 |
| %RSD | .10435 | .06258 | .38561 | .16602 | .58633 | .15592 | .27429 | .69073 | .39181 | .04713 |
| #1 | .07425 | .12827 | 259.17 | 14.873 | .06554 | 47.652 | 3.5433 | .00235 | 1.7373 | .08913 |
| #2 | .07414 | .12838 | 260.59 | 14.908 | .06609 | 47.547 | 3.5570 | .00237 | 1.7277 | .08919 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.365** | **.03959** | **.81138** | **-.00528** | **-.00128** | **1.6264** | **3.4804** | **.04864** | **.16568** | **.04696** |
| Stddev | .003 | .00089 | .00443 | .00292 | .00105 | .0066 | .0142 | .00058 | .00026 | .00164 |
| %RSD | .03264 | 2.2505 | .54584 | 55.249 | 81.793 | .40787 | .40787 | 1.2015 | .15661 | 3.4902 |
| #1 | 10.362 | .03896 | .80825 | -.00735 | -.00202 | 1.6217 | 3.4704 | .04823 | .16549 | .04812 |
| #2 | 10.367 | .04022 | .81451 | -.00322 | -.00054 | 1.6311 | 3.4905 | .04906 | .16586 | .04580 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **23.315** | **.00166** | F **-.13850** | **.66420** | **.47758** | **.27219** |
| Stddev | .083 | .00056 | .00392 | .00091 | .00147 | .00012 |
| %RSD | .35504 | 33.736 | 2.8298 | .13635 | .30725 | .04401 |
| #1 | 23.256 | .00206 | -.13573 | .66484 | .47654 | .27210 |
| #2 | 23.373 | .00126 | -.14128 | .66356 | .47861 | .27227 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9253.7** | **92842.** | **9459.3** |
| Stddev | 31.2 | 175. | 21.8 |
| %RSD | .33758 | .18829 | .23056 |
| #1 | 9231.6 | 92965. | 9474.7 |
| #2 | 9275.7 | 92718. | 9443.9 |

Sample Name: 280-42473-a-11-a  Acquired: 5/23/2013 15:37:33  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **70.011** | **.03774** | **.01103** | **.69553** | **.00389** | W **.05141** | **33.828** | **.00292** | **.06755** |
| Stddev | .00085 | .230 | .00041 | .00027 | .00271 | .00018 | .00204 | .076 | .00004 | .00065 |
| %RSD | 124.44 | .32834 | 1.0857 | 2.4354 | .38918 | 4.5251 | 3.9612 | .22503 | 1.4174 | .95651 |
| #1 | -.00128 | 69.848 | .03803 | .01084 | .69362 | .00376 | .04997 | 33.774 | .00289 | .06801 |
| #2 | -.00008 | 70.174 | .03745 | .01122 | .69744 | .00401 | .05285 | 33.882 | .00295 | .06709 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07709** | **.11971** | **229.99** | **15.175** | **.06471** | **42.428** | **3.1958** | **.00215** | **1.6270** | **.08846** |
| Stddev | .00028 | .00110 | 1.09 | .063 | .00294 | .122 | .0417 | .00010 | .0141 | .00009 |
| %RSD | .36510 | .91793 | .47274 | .41681 | 4.5498 | .28637 | 1.3041 | 4.5038 | .86617 | .09929 |
| #1 | .07689 | .11893 | 229.22 | 15.130 | .06263 | 42.342 | 3.1663 | .00222 | 1.6170 | .08852 |
| #2 | .07729 | .12049 | 230.76 | 15.220 | .06680 | 42.514 | 3.2252 | .00208 | 1.6369 | .08840 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.8517** | **.04422** | **1.0046** | **-.00409** | **.00141** | **2.0452** | **4.3766** | **.04131** | **.17283** | **.04044** |
| Stddev | .0100 | .00110 | .0011 | .00073 | .00335 | .0107 | .0228 | .00090 | .00006 | .00121 |
| %RSD | .11282 | 2.4892 | .10864 | 17.863 | 237.34 | .52178 | .52178 | 2.1834 | .03692 | 2.9879 |
| #1 | 8.8588 | .04344 | 1.0039 | -.00461 | .00378 | 2.0527 | 4.3928 | .04067 | .17288 | .04129 |
| #2 | 8.8447 | .04499 | 1.0054 | -.00358 | -.00096 | 2.0376 | 4.3605 | .04194 | .17279 | .03958 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **19.305** | **.00089** | W **-.09465** | **.59822** | **.43907** | **.22691** |
| Stddev | .300 | .00002 | .05566 | .00386 | .00087 | .00091 |
| %RSD | 1.5550 | 1.7144 | 58.803 | .64513 | .19737 | .40070 |
| #1 | 19.093 | .00090 | -.13400 | .59549 | .43969 | .22627 |
| #2 | 19.517 | .00088 | -.05529 | .60095 | .43846 | .22755 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 45.000 | | | |
| Low Limit | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8928.1** | **89909.** | **9136.6** |
| Stddev | 34.7 | 403. | 63.8 |
| %RSD | .38823 | .44795 | .69817 |
| #1 | 8952.6 | 90193. | 9181.7 |
| #2 | 8903.6 | 89624. | 9091.5 |

Sample Name: 280-42473-a-12-a  Acquired: 5/23/2013 15:40:02  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00088** | **79.120** | **.02770** | **.01052** | **.75826** | **.00452** | W **.05454** | **39.424** | **.00308** | **.07520** |
| Stddev | .00045 | .149 | .00129 | .00015 | .00400 | .00004 | .00146 | .322 | .00004 | .00002 |
| %RSD | 51.019 | .18855 | 4.6404 | 1.4554 | .52698 | .80750 | 2.6772 | .81622 | 1.4452 | .02065 |
| #1 | -.00056 | 79.015 | .02679 | .01062 | .75543 | .00454 | .05557 | 39.197 | .00311 | .07521 |
| #2 | -.00120 | 79.226 | .02861 | .01041 | .76108 | .00449 | .05351 | 39.652 | .00305 | .07519 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08925** | **.13747** | **260.86** | **17.256** | **.07428** | **48.226** | **3.7456** | **.00167** | **1.8709** | **.09600** |
| Stddev | .00037 | .00033 | .34 | .185 | .00174 | .003 | .0270 | .00025 | .0178 | .00066 |
| %RSD | .41093 | .23967 | .12857 | 1.0731 | 2.3464 | .00589 | .72110 | 15.050 | .94972 | .69173 |
| #1 | .08951 | .13771 | 260.62 | 17.126 | .07551 | 48.224 | 3.7647 | .00149 | 1.8584 | .09553 |
| #2 | .08899 | .13724 | 261.10 | 17.387 | .07304 | 48.228 | 3.7265 | .00185 | 1.8835 | .09647 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.9201** | **.04225** | **.74468** | **-.00806** | **-.00063** | **3.4230** | **7.3253** | **.04584** | **.19169** | **.04881** |
| Stddev | .0047 | .00053 | .00162 | .00004 | .00056 | .0152 | .0325 | .00026 | .00118 | .00121 |
| %RSD | .04759 | 1.2505 | .21805 | .48512 | 88.519 | .44388 | .44388 | .55849 | .61530 | 2.4886 |
| #1 | 9.9234 | .04188 | .74583 | -.00803 | -.00103 | 3.4338 | 7.3483 | .04566 | .19086 | .04967 |
| #2 | 9.9168 | .04262 | .74353 | -.00809 | -.00024 | 3.4123 | 7.3023 | .04602 | .19253 | .04795 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **21.452** | **.00167** | F **-.12248** | **.64301** | **.48091** | **.27401** |
| Stddev | .067 | .00052 | .02596 | .00246 | .00137 | .00239 |
| %RSD | .31110 | 31.034 | 21.197 | .38295 | .28390 | .87206 |
| #1 | 21.499 | .00204 | -.14084 | .64475 | .47995 | .27232 |
| #2 | 21.404 | .00130 | -.10412 | .64127 | .48188 | .27570 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9076.0** | **91530.** | **9374.1** |
| Stddev | 16.0 | 395. | 33.1 |
| %RSD | .17608 | .43191 | .35352 |
| #1 | 9064.7 | 91810. | 9397.5 |
| #2 | 9087.3 | 91251. | 9350.7 |

Sample Name: 280-42473-a-13-a  Acquired: 5/23/2013 15:42:30  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175436 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00055** | **83.238** | **.03039** | **.00963** | **.81828** | **.00453** | W **.05074** | **39.770** | **.00299** | **.07869** |
| Stddev | .00026 | .116 | .00302 | .00001 | .00050 | .00012 | .00429 | .114 | .00007 | .00003 |
| %RSD | 47.654 | .13964 | 9.9483 | .12440 | .06120 | 2.7115 | 8.4493 | .28726 | 2.3078 | .03367 |
| #1 | -.00074 | 83.156 | .02825 | .00962 | .81793 | .00462 | .05377 | 39.851 | .00294 | .07867 |
| #2 | -.00037 | 83.320 | .03253 | .00964 | .81863 | .00444 | .04771 | 39.689 | .00304 | .07871 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09726** | **.14337** | **268.20** | **18.494** | **.08076** | **50.892** | **3.8456** | **.00217** | **1.8392** | **.10056** |
| Stddev | .00015 | .00026 | 1.27 | .002 | .00086 | .064 | .0065 | .00036 | .0047 | .00056 |
| %RSD | .15194 | .18256 | .47401 | .00923 | 1.0654 | .12620 | .16874 | 16.698 | .25664 | .55381 |
| #1 | .09737 | .14319 | 267.31 | 18.493 | .08015 | 50.847 | 3.8410 | .00242 | 1.8425 | .10095 |
| #2 | .09716 | .14356 | 269.10 | 18.495 | .08137 | 50.937 | 3.8502 | .00191 | 1.8358 | .10016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.163** | **.04281** | **.71323** | **-.00438** | **-.00187** | **3.6115** | **7.7287** | **.04464** | **.19775** | **.04986** |
| Stddev | .010 | .00281 | .00436 | .00150 | .00120 | .1555 | .3328 | .00044 | .00023 | .00012 |
| %RSD | .09717 | 6.5566 | .61145 | 34.372 | 64.189 | 4.3061 | 4.3061 | .98628 | .11475 | .24343 |
| #1 | 10.170 | .04083 | .71014 | -.00544 | -.00102 | 3.7215 | 7.9640 | .04433 | .19791 | .04977 |
| #2 | 10.156 | .04480 | .71631 | -.00331 | -.00272 | 3.5016 | 7.4934 | .04495 | .19759 | .04994 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **20.680** | **.00038** | F **-.13641** | **.63670** | **.49538** | **.27508** |
| Stddev | .135 | .00034 | .03682 | .00202 | .00130 | .00151 |
| %RSD | .65163 | 89.691 | 26.995 | .31784 | .26311 | .54824 |
| #1 | 20.775 | .00014 | -.11037 | .63527 | .49446 | .27615 |
| #2 | 20.584 | .00061 | -.16244 | .63813 | .49630 | .27401 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | 50.000 | | | |
| Low Limit | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8970.0** | **91045.** | **9230.9** |
| Stddev | 2.3 | 5. | 47.7 |
| %RSD | .02611 | .00519 | .51692 |
| #1 | 8971.6 | 91049. | 9197.2 |
| #2 | 8968.3 | 91042. | 9264.7 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 15:44:59 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00205** | **49.798** | **.00065** | **.00060** | **.00042** | **.00007** | **1.0112** | **-.00763** | **.00042** | **.00044** | **.00014** | **.00014** | **50.577** |
| Stddev | .00034 | .338 | .00166 | .00102 | .00008 | .00005 | .0019 | .00213 | .00012 | .00005 | .00017 | .00086 | .445 |
| %RSD | 16.567 | .67799 | 257.17 | 168.72 | 19.081 | 67.311 | .18502 | 27.922 | 29.322 | 11.688 | 118.05 | 591.16 | .87921 |
| #1 | -.00229 | 49.559 | -.00053 | -.00012 | .00037 | .00004 | 1.0125 | -.00914 | .00050 | .00040 | .00002 | -.00046 | 50.262 |
| #2 | -.00181 | 50.036 | .00182 | .00132 | .00048 | .00011 | 1.0099 | -.00613 | .00033 | .00047 | .00026 | .00075 | 50.891 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19545** | **.00309** | **.03832** | **.00007** | **-.00052** | **254.65** | **-.00001** | **.00390** | **-.00221** | **4.8469** | **.00034** | **.00483** | **.00881** |
| Stddev | .08414 | .00221 | .00270 | .00013 | .00016 | 1.91 | .00008 | .00123 | .00032 | .0047 | .00263 | .00082 | .00800 |
| %RSD | 43.046 | 71.532 | 7.0404 | 181.21 | 29.879 | .74998 | 1055.4 | 31.635 | 14.433 | .09760 | 764.18 | 16.993 | 90.862 |
| #1 | .25494 | .00465 | .03641 | -.00002 | -.00041 | 253.30 | -.00007 | .00303 | -.00243 | 4.8436 | -.00152 | .00541 | .00315 |
| #2 | .13596 | .00153 | .04023 | .00016 | -.00064 | 256.00 | .00005 | .00477 | -.00198 | 4.8503 | .00221 | .00425 | .01446 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01884** | **.00042** | **.00025** | **4.9148** | **.00288** | **.00106** | **10.359** | **.00010** | **.00095** | **.00073** |
| Stddev | .01712 | .00100 | .00016 | .0088 | .00007 | .00019 | .012 | .00025 | .00008 | .00015 |
| %RSD | 90.862 | 238.55 | 65.809 | .17810 | 2.4804 | 18.219 | .11421 | 244.91 | 8.0183 | 20.317 |
| #1 | .00674 | .00113 | .00013 | 4.9086 | .00293 | .00120 | 10.350 | -.00008 | .00100 | .00063 |
| #2 | .03095 | -.00029 | .00037 | 4.9210 | .00283 | .00093 | 10.367 | .00028 | .00089 | .00084 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8037.0** | **80419.** | **7995.7** |
| Stddev | 35.0 | 37. | 6.7 |
| %RSD | .43555 | .04605 | .08402 |
| #1 | 8012.2 | 80445. | 8000.4 |
| #2 | 8061.7 | 80393. | 7990.9 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 15:47:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51083** | **.51540** | **1.0012** | **.50605** | **.49848** | **.48564** | **.00078** | **4.9440** | **.49563** | **.50534** | **.51166** | **.50370** | **2.4589** |
| Stddev | .00008 | .00155 | .0009 | .00151 | .00059 | .00130 | .00437 | .0203 | .00053 | .00083 | .00153 | .00165 | .0057 |
| %RSD | .01568 | .30033 | .08910 | .29912 | .11828 | .26754 | 561.38 | .41091 | .10732 | .16413 | .29866 | .32817 | .23364 |
| #1 | .51089 | .51430 | 1.0005 | .50498 | .49806 | .48656 | .00387 | 4.9583 | .49526 | .50475 | .51058 | .50487 | 2.4630 |
| #2 | .51077 | .51649 | 1.0018 | .50712 | .49890 | .48472 | -.00231 | 4.9296 | .49601 | .50593 | .51274 | .50254 | 2.4549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.502** | **.99209** | **19.979** | **.49721** | **.50748** | **5.0629** | **.51490** | **.99496** | **1.0028** | **.00497** | **.99775** | **1.0038** | **5.0823** |
| Stddev | .012 | .00239 | .036 | .00021 | .00050 | .0037 | .00023 | .00119 | .0009 | .00013 | .00527 | .0029 | .0153 |
| %RSD | .02383 | .24084 | .18193 | .04282 | .09783 | .07341 | .04456 | .11973 | .08599 | 2.5839 | .52776 | .28817 | .30181 |
| #1 | 49.494 | .99378 | 20.005 | .49736 | .50713 | 5.0603 | .51473 | .99412 | 1.0034 | .00506 | .99402 | 1.0058 | 5.0715 |
| #2 | 49.510 | .99040 | 19.953 | .49706 | .50783 | 5.0655 | .51506 | .99581 | 1.0022 | .00488 | 1.0015 | 1.0018 | 5.0932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.876** | **1.0169** | **.49752** | **-.00051** | **.50085** | **1.0200** | **.02639** | **.48797** | **.50490** | **.49883** |
| Stddev | .033 | .0009 | .00067 | .00244 | .00048 | .0029 | .04922 | .00254 | .00117 | .00421 |
| %RSD | .30181 | .08625 | .13428 | 480.08 | .09617 | .28011 | 186.56 | .51994 | .23139 | .84406 |
| #1 | 10.853 | 1.0163 | .49705 | .00122 | .50050 | 1.0180 | -.00842 | .48976 | .50407 | .49585 |
| #2 | 10.899 | 1.0176 | .49799 | -.00224 | .50119 | 1.0221 | .06119 | .48617 | .50573 | .50181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8147.9** | **83495.** | **8232.3** |
| Stddev | 19.4 | 169. | 52.4 |
| %RSD | .23756 | .20273 | .63706 |
| #1 | 8161.6 | 83614. | 8269.4 |
| #2 | 8134.2 | 83375. | 8195.2 |

Sample Name: CCB Acquired: 5/23/2013 15:49:24 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00064** | **.00092** | **-.00095** | **.00035** | **-.00026** | **.00004** | **.00103** | **.00203** | **.00014** | **.00000** | **.00014** | **.00002** | **.00182** |
| Stddev | .00072 | .00003 | .00117 | .00010 | .00040 | .00000 | .00152 | .00410 | .00029 | .0001 | .00000 | .00005 | .00052 |
| %RSD | 112.38 | 2.7652 | 122.79 | 29.514 | 154.34 | 6.2282 | 147.89 | 202.49 | 199.08 | 1310.6 | .92153 | 220.20 | 28.713 |
| #1 | -.00013 | .00094 | -.00013 | .00028 | .00002 | .00004 | -.00005 | -.00088 | -.00006 | -.00005 | .00015 | .00006 | .00219 |
| #2 | -.00116 | .00090 | -.00178 | .00043 | -.00054 | .00004 | .00210 | .00493 | .00035 | .00004 | .00014 | -.00001 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11055** | **.00210** | **.00150** | **-.00003** | **.00023** | **.02086** | **-.00005** | **.00179** | **-.00143** | **.00198** | **.00237** | **.00328** | **.01768** |
| Stddev | .02792 | .00156 | .00206 | .00003 | .00002 | .00572 | .00028 | .00035 | .00099 | .00004 | .00218 | .00319 | .00731 |
| %RSD | 25.256 | 74.553 | 137.20 | 102.04 | 9.2370 | 27.397 | 518.80 | 19.715 | 69.188 | 2.0572 | 91.980 | 97.116 | 41.345 |
| #1 | .13030 | .00099 | .00295 | -.00005 | .00022 | .01682 | -.00025 | .00154 | -.00213 | .00195 | .00391 | .00103 | .01251 |
| #2 | .09081 | .00320 | .00004 | -.00001 | .00025 | .02490 | .00015 | .00204 | -.00073 | .00201 | .00083 | .00554 | .02285 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03784** | **-.00038** | **.00003** | **-.00002** | **-.00005** | **.00089** | **.00940** | **.00015** | **.00217** | **.00038** |
| Stddev | .01565 | .00002 | .00011 | .00137 | .00011 | .00004 | .00352 | .00001 | .00031 | .00020 |
| %RSD | 41.345 | 5.8021 | 348.44 | 5602.6 | 249.01 | 3.9699 | 37.420 | 3.3149 | 14.283 | 52.152 |
| #1 | .02678 | -.00040 | -.00005 | .00095 | -.00012 | .00086 | .00691 | .00016 | .00239 | .00024 |
| #2 | .04890 | -.00037 | .00011 | -.00100 | .00003 | .00091 | .01188 | .00015 | .00195 | .00052 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8190.6** | **85482.** | **8132.0** |
| Stddev | 21.9 | 223. | 2.7 |
| %RSD | .26780 | .26072 | .03265 |
| #1 | 8175.1 | 85325. | 8130.1 |
| #2 | 8206.1 | 85640. | 8133.8 |

Sample Name: CCVL2067279 Acquired: 5/23/2013 15:51:38 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00949** | **.10639** | **.01410** | **.10415** | **.00987** | **.00097** | **.11753** | **.20353** | **.00516** | **.01081** | **.01055** | **.01558** | **.11604** | **3.1496** |
| Stddev | .00004 | .00035 | .00244 | .00026 | .00049 | .00002 | .00169 | .00262 | .00025 | .00009 | .00001 | .00023 | .00219 | .0285 |
| %RSD | .42458 | .32579 | 17.341 | .24819 | 4.9597 | 1.9763 | 1.4354 | 1.2855 | 4.7508 | .87753 | .07981 | 1.5032 | 1.8910 | .90548 |
| #1 | .00952 | .10664 | .01237 | .10396 | .00952 | .00096 | .11634 | .20538 | .00534 | .01074 | .01056 | .01542 | .11760 | 3.1294 |
| #2 | .00946 | .10615 | .01582 | .10433 | .01022 | .00099 | .11873 | .20168 | .00499 | .01088 | .01055 | .01575 | .11449 | 3.1697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01276** | **.20944** | **.01069** | **.02084** | **1.0165** | **.04280** | **2.9674** | **.00722** | **.00088** | **.01158** | **.01932** | **.53819** | **1.1517** | **.10499** |
| Stddev | .00056 | .00256 | .00001 | .00000 | .0050 | .00007 | .0107 | .00053 | .00216 | .00214 | .00128 | .01175 | .0251 | .00017 |
| %RSD | 4.3605 | 1.2227 | .05860 | .00794 | .49418 | .16405 | .36148 | 7.3909 | 245.35 | 18.487 | 6.6212 | 2.1835 | 2.1835 | .15901 |
| #1 | .01237 | .21125 | .01068 | .02083 | 1.0129 | .04275 | 2.9750 | .00760 | -.00065 | .01309 | .01841 | .54650 | 1.1695 | .10511 |
| #2 | .01315 | .20763 | .01069 | .02084 | 1.0200 | .04285 | 2.9598 | .00684 | .00241 | .01006 | .02022 | .52988 | 1.1340 | .10487 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01015** | **.01507** | **.01031** | **.01728** | **.07036** | **.00969** | **.02286** | **.01750** |
| Stddev | .00001 | .00008 | .00005 | .00116 | .02605 | .00020 | .00009 | .00090 |
| %RSD | .07851 | .52762 | .51282 | 6.7204 | 37.018 | 2.0543 | .40336 | 5.1487 |
| #1 | .01014 | .01501 | .01027 | .01646 | .05194 | .00955 | .02292 | .01686 |
| #2 | .01015 | .01513 | .01035 | .01810 | .08878 | .00983 | .02279 | .01814 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8437.1** | **87185.** | **8402.4** |
| Stddev | 3.4 | 8. | 18.0 |
| %RSD | .04039 | .00905 | .21413 |
| #1 | 8439.5 | 87180. | 8415.1 |
| #2 | 8434.7 | 87191. | 8389.6 |

Sample Name: 280-42263-a-2-a  Acquired: 5/23/2013 15:53:53  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174748 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **.00269** | **-.00035** | **.06917** | **.33138** | **.00005** | **-.00221** | **132.58** | **.00052** | **-.00006** |
| Stddev | .00014 | .00003 | .00061 | .00007 | .00066 | .00001 | .00348 | .11 | .00006 | .00022 |
| %RSD | 87.986 | 1.2219 | 173.13 | .09543 | .20008 | 20.073 | 157.40 | .08426 | 11.351 | 368.13 |
| #1 | -.00026 | .00272 | -.00078 | .06922 | .33091 | .00005 | .00025 | 132.50 | .00056 | .00009 |
| #2 | -.00006 | .00267 | .00008 | .06913 | .33185 | .00006 | -.00467 | 132.66 | .00048 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.00132** | **.01336** | **1.3423** | **.03558** | **18.265** | **.01426** | **.00087** | **78.714** | **.00140** |
| Stddev | .00006 | .00023 | .00007 | .0194 | .00004 | .087 | .00005 | .00001 | .140 | .00041 |
| %RSD | 10.270 | 17.764 | .53487 | 1.4429 | .11371 | .47432 | .33867 | 1.2253 | .17780 | 29.018 |
| #1 | .00062 | .00116 | .01341 | 1.3286 | .03555 | 18.204 | .01423 | .00088 | 78.615 | .00169 |
| #2 | .00053 | .00149 | .01331 | 1.3560 | .03561 | 18.326 | .01430 | .00087 | 78.813 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10209** | **-.00106** | **4.5711** | **.00087** | **.00257** | **13.222** | **28.294** | **.00024** | **1.2052** | **.00166** |
| Stddev | .00072 | .00060 | .0017 | .00047 | .00066 | .028 | .059 | .00024 | .0016 | .00101 |
| %RSD | .70717 | 56.562 | .03728 | 53.931 | 25.583 | .20961 | .20961 | 101.55 | .12922 | 60.631 |
| #1 | .10260 | -.00063 | 4.5699 | .00054 | .00304 | 13.202 | 28.252 | .00041 | 1.2041 | .00095 |
| #2 | .10158 | -.00148 | 4.5723 | .00120 | .00211 | 13.241 | 28.336 | .00007 | 1.2063 | .00237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.00057** | **-.00368** | **.00697** | **.00611** | **.00117** |
| Stddev | .00010 | .00038 | .06780 | .00036 | .00051 | .00009 |
| %RSD | 77.511 | 66.064 | 1843.6 | 5.1082 | 8.2675 | 7.5020 |
| #1 | -.00006 | .00031 | .04427 | .00672 | .00575 | .00123 |
| #2 | -.00020 | .00084 | -.05162 | .00722 | .00647 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8088.2** | **81768.** | **8231.6** |
| Stddev | 53.3 | 629. | 69.3 |
| %RSD | .65956 | .76976 | .84192 |
| #1 | 8050.4 | 82213. | 8182.6 |
| #2 | 8125.9 | 81323. | 8280.6 |

Sample Name: 280-42263-a-3-a  Acquired: 5/23/2013 15:56:10  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174748 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00074** | **.00228** | **-.00048** | **.06863** | **.32980** | **.00004** | **-.00396** | **130.57** | **.00041** | **-.00012** |
| Stddev | .00068 | .00012 | .00056 | .00010 | .00132 | .00004 | .00175 | 1.27 | .00002 | .00009 |
| %RSD | 92.081 | 5.0630 | 116.29 | .14723 | .39957 | 105.10 | 44.158 | .97277 | 5.6252 | 79.511 |
| #1 | -.00026 | .00236 | -.00008 | .06870 | .32887 | .00007 | -.00520 | 131.47 | .00039 | -.00018 |
| #2 | -.00122 | .00220 | -.00087 | .06856 | .33073 | .00001 | -.00272 | 129.68 | .00042 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.00102** | **.07603** | **1.3721** | **.03608** | **18.047** | **.01239** | **.00086** | **77.757** | **.00110** |
| Stddev | .00008 | .00060 | .00526 | .0381 | .00404 | .003 | .00012 | .00009 | .059 | .00004 |
| %RSD | 15.561 | 58.552 | 6.9137 | 2.7775 | 11.186 | .01646 | 1.0073 | 10.933 | .07562 | 3.6215 |
| #1 | .00059 | .00144 | .07974 | 1.3451 | .03893 | 18.049 | .01248 | .00080 | 77.715 | .00113 |
| #2 | .00047 | .00060 | .07231 | 1.3990 | .03323 | 18.045 | .01231 | .00093 | 77.798 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10256** | **-.00041** | **4.5702** | **.00146** | **.00282** | **13.101** | **28.037** | **-.00052** | **1.1999** | **-.00096** |
| Stddev | .00219 | .00044 | .0046 | .00162 | .00170 | .082 | .176 | .00068 | .0043 | .00113 |
| %RSD | 2.1360 | 107.90 | .10059 | 110.92 | 60.113 | .62754 | .62754 | 132.57 | .36255 | 117.67 |
| #1 | .10411 | -.00072 | 4.5669 | .00260 | .00162 | 13.043 | 27.913 | -.00003 | 1.1968 | -.00177 |
| #2 | .10102 | -.00010 | 4.5734 | .00031 | .00402 | 13.160 | 28.162 | -.00100 | 1.2029 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **-.00011** | **.02526** | **.00604** | **.00318** | **.00089** |
| Stddev | .00016 | .00058 | .01042 | .00000 | .00002 | .00194 |
| %RSD | 65.866 | 524.84 | 41.246 | .04195 | .49469 | 218.47 |
| #1 | -.00035 | .00030 | .01790 | .00604 | .00317 | -.00048 |
| #2 | -.00013 | -.00052 | .03263 | .00604 | .00319 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8125.1** | **83175.** | **8469.8** |
| Stddev | 27.5 | 251. | 4.7 |
| %RSD | .33865 | .30182 | .05574 |
| #1 | 8144.5 | 83353. | 8466.5 |
| #2 | 8105.6 | 82998. | 8473.1 |

Sample Name: 280-42263-a-4-a  Acquired: 5/23/2013 15:58:29  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174748 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **.00249** | **-.00324** | **.07577** | **.34087** | **.00009** | **-.00603** | **138.56** | **.00057** | **-.00008** |
| Stddev | .00007 | .00002 | .00152 | .00031 | .00131 | .00000 | .00109 | .97 | .00027 | .00011 |
| %RSD | 9.8343 | .79567 | 46.892 | .41331 | .38364 | 1.0666 | 18.153 | .69793 | 48.594 | 141.76 |
| #1 | -.00065 | .00251 | -.00217 | .07555 | .34179 | .00008 | -.00525 | 137.87 | .00037 | -.00015 |
| #2 | -.00075 | .00248 | -.00431 | .07600 | .33994 | .00009 | -.00680 | 139.24 | .00076 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00173** | **.00263** | **.00524** | **1.3528** | **.03240** | **19.257** | **.01588** | **.00093** | **71.613** | **.00199** |
| Stddev | .00009 | .00040 | .00033 | .0433 | .00091 | .038 | .00004 | .00027 | .088 | .00007 |
| %RSD | 5.2362 | 15.061 | 6.3005 | 3.2000 | 2.8001 | .19939 | .25028 | 29.297 | .12321 | 3.5292 |
| #1 | .00180 | .00235 | .00501 | 1.3834 | .03176 | 19.285 | .01585 | .00074 | 71.550 | .00194 |
| #2 | .00167 | .00291 | .00548 | 1.3222 | .03304 | 19.230 | .01591 | .00112 | 71.675 | .00204 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10506** | **.00042** | **4.7961** | **-.00005** | **-.00063** | **13.044** | **27.914** | **-.00073** | **1.2302** | **-.00046** |
| Stddev | .00115 | .00016 | .0007 | .00120 | .00084 | .040 | .086 | .00036 | .0044 | .00203 |
| %RSD | 1.0991 | 37.241 | .01389 | 2213.9 | 133.07 | .30791 | .30791 | 49.331 | .35711 | 438.04 |
| #1 | .10424 | .00031 | 4.7956 | .00079 | -.00122 | 13.072 | 27.975 | -.00099 | 1.2333 | .00097 |
| #2 | .10587 | .00053 | 4.7965 | -.00090 | -.00004 | 13.016 | 27.853 | -.00048 | 1.2271 | -.00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.00093** | **.01160** | **.00459** | **.00665** | **.00205** |
| Stddev | .00015 | .00016 | .07165 | .00008 | .00008 | .00119 |
| %RSD | 50.968 | 17.428 | 617.60 | 1.6737 | 1.1415 | 58.135 |
| #1 | -.00019 | .00081 | -.03906 | .00464 | .00660 | .00121 |
| #2 | -.00040 | .00104 | .06227 | .00453 | .00670 | .00290 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8120.7** | **82781.** | **8416.6** |
| Stddev | 14.7 | 111. | 19.7 |
| %RSD | .18101 | .13374 | .23395 |
| #1 | 8110.3 | 82859. | 8430.5 |
| #2 | 8131.1 | 82703. | 8402.7 |

Sample Name: 280-42426-I-1-a@5 Acquired: 5/23/2013 16:00:52 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175123 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00097** | **.00272** | **-.00090** | **.29130** | **.08045** | **.00004** | **-.00512** | **290.26** | **.00172** | **.00018** |
| Stddev | .00004 | .00019 | .00124 | .00036 | .00044 | .00012 | .00232 | 2.96 | .00025 | .00035 |
| %RSD | 4.3631 | 7.0225 | 137.41 | .12470 | .54683 | 300.56 | 45.267 | 1.0184 | 14.476 | 195.74 |
| #1 | -.00100 | .00286 | -.00003 | .29105 | .08076 | -.00004 | -.00348 | 292.35 | .00189 | -.00007 |
| #2 | -.00094 | .00259 | -.00178 | .29156 | .08014 | .00012 | -.00676 | 288.17 | .00154 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **.00119** | **7.6812** | **16.707** | **.01097** | **172.21** | **3.6888** | **.00119** | W **585.17** | **.00334** |
| Stddev | .00026 | .00028 | .0017 | .027 | .00237 | .44 | .0391 | .00022 | 1.36 | .00055 |
| %RSD | 30.566 | 23.469 | .02157 | .16440 | 21.592 | .25437 | 1.0604 | 18.413 | .23280 | 16.336 |
| #1 | .00066 | .00099 | 7.6800 | 16.726 | .00929 | 172.52 | 3.7165 | .00135 | 586.14 | .00373 |
| #2 | .00103 | .00138 | 7.6824 | 16.688 | .01264 | 171.91 | 3.6611 | .00104 | 584.21 | .00296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24723** | **-.00162** | **58.382** | **.00044** | **.00569** | **5.8680** | **12.558** | **-.00061** | **1.8894** | **-.00294** |
| Stddev | .00174 | .00064 | .073 | .00186 | .00408 | .0073 | .016 | .00012 | .0014 | .00138 |
| %RSD | .70283 | 39.223 | .12519 | 420.94 | 71.826 | .12444 | .12444 | 19.773 | .07389 | 46.980 |
| #1 | .24846 | -.00207 | 58.434 | -.00087 | .00858 | 5.8628 | 12.546 | -.00053 | 1.8904 | -.00196 |
| #2 | .24600 | -.00117 | 58.331 | .00176 | .00280 | 5.8732 | 12.569 | -.00070 | 1.8884 | -.00392 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00128** | **.01639** | **.01640** | **.00358** | **.00176** |
| Stddev | .00020 | .00008 | .01291 | .00004 | .00043 | .00059 |
| %RSD | 36.772 | 6.3630 | 78.811 | .26349 | 11.879 | 33.226 |
| #1 | .00069 | .00134 | .00725 | .01637 | .00388 | .00218 |
| #2 | .00041 | .00122 | .02552 | .01643 | .00328 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7570.2** | **76376.** | **8316.6** |
| Stddev | 4.9 | 265. | 85.7 |
| %RSD | .06432 | .34759 | 1.0308 |
| #1 | 7573.6 | 76188. | 8255.9 |
| #2 | 7566.7 | 76563. | 8377.2 |

Sample Name: 280-42433-a-5-a@5 Acquired: 5/23/2013 16:03:31 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175123 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00077** | **3.4450** | **-.00155** | **.02673** | **.00091** | **.00630** | **-.00623** | **111.28** | **.00104** | **.05378** |
| Stddev | .00009 | .0124 | .00012 | .00034 | .00018 | .00007 | .00054 | .25 | .00001 | .00017 |
| %RSD | 11.040 | .35934 | 7.9405 | 1.2822 | 20.339 | 1.0755 | 8.6132 | .22524 | .99662 | .31299 |
| #1 | -.00083 | 3.4363 | -.00164 | .02698 | .00104 | .00635 | -.00585 | 111.11 | .00105 | .05366 |
| #2 | -.00071 | 3.4538 | -.00147 | .02649 | .00078 | .00626 | -.00661 | 111.46 | .00103 | .05390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00194** | **.03464** | **3.9673** | **.25382** | **48.837** | **.26176** | **.00011** | **133.73** | **.05897** |
| Stddev | .00017 | .00030 | .00229 | .0491 | .00031 | .054 | .00016 | .00006 | .04 | .00010 |
| %RSD | 74.526 | 15.617 | 6.6039 | 1.2366 | .12289 | .11146 | .06177 | 56.447 | .03292 | .16928 |
| #1 | .00011 | .00173 | .03302 | 3.9326 | .25360 | 48.798 | .26188 | .00015 | 133.70 | .05904 |
| #2 | .00035 | .00216 | .03625 | 4.0020 | .25404 | 48.875 | .26165 | .00007 | 133.76 | .05890 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01504** | **.00124** | **133.67** | **-.00073** | **-.00178** | **9.0328** | **19.330** | **-.00018** | **.32843** | **-.00016** |
| Stddev | .00007 | .00017 | .10 | .00248 | .00227 | .0624 | .133 | .00055 | .00058 | .00119 |
| %RSD | .47474 | 13.314 | .07230 | 339.54 | 127.20 | .69035 | .69035 | 304.01 | .17670 | 764.74 |
| #1 | .01499 | .00112 | 133.60 | -.00249 | -.00339 | 8.9887 | 19.236 | .00021 | .32802 | .00069 |
| #2 | .01509 | .00136 | 133.74 | .00102 | -.00018 | 9.0769 | 19.425 | -.00057 | .32884 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.00122** | **-.01976** | **.00138** | **.08038** | **.00300** |
| Stddev | .00018 | .00084 | .00854 | .00018 | .00047 | .00050 |
| %RSD | 31.783 | 69.295 | 43.206 | 13.048 | .58472 | 16.550 |
| #1 | -.00071 | .00181 | -.02579 | .00125 | .08005 | .00335 |
| #2 | -.00045 | .00062 | -.01372 | .00151 | .08072 | .00265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8933.6** | **90537.** | **9318.4** |
| Stddev | 46.0 | 142. | 29.5 |
| %RSD | .51451 | .15734 | .31626 |
| #1 | 8901.1 | 90638. | 9339.2 |
| #2 | 8966.1 | 90436. | 9297.6 |

Sample Name: 280-42127-d-2-a@10 Acquired: 5/23/2013 16:05:46 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174219 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00114** | **.00309** | **-.00169** | **.28532** | **.00105** | **.00000** | **.00044** | **25.839** | **.00106** | **.00014** |
| Stddev | .00090 | .00010 | .00123 | .00119 | .00047 | .00006 | .00197 | .156 | .00012 | .00007 |
| %RSD | 78.759 | 3.1421 | 72.884 | .41724 | 44.421 | 3530.8 | 451.49 | .60441 | 11.020 | 50.714 |
| #1 | -.00051 | .00303 | -.00082 | .28616 | .00072 | .00004 | -.00096 | 25.728 | .00098 | .00019 |
| #2 | -.00178 | .00316 | -.00256 | .28448 | .00138 | -.00004 | .00183 | 25.949 | .00114 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00060** | **.12578** | **2.6900** | **.03237** | **88.992** | **.01252** | **.00054** | **176.26** | **.00024** |
| Stddev | .00015 | .00016 | .00192 | .0434 | .00077 | .576 | .00002 | .00027 | 1.61 | .00005 |
| %RSD | 50.824 | 26.346 | 1.5246 | 1.6137 | 2.3923 | .64780 | .15207 | 50.085 | .91240 | 20.769 |
| #1 | .00040 | .00071 | .12442 | 2.6593 | .03182 | 89.399 | .01253 | .00073 | 175.13 | .00020 |
| #2 | .00019 | .00049 | .12713 | 2.7207 | .03292 | 88.584 | .01250 | .00035 | 177.40 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02023** | **-.00129** | F **230.11** | **.00087** | **.00387** | **1.0841** | **2.3199** | **-.00017** | **.20239** | **-.00208** |
| Stddev | .00006 | .00065 | .20 | .00276 | .00205 | .0155 | .0332 | .00026 | .00131 | .00136 |
| %RSD | .31245 | 50.037 | .08854 | 317.69 | 52.919 | 1.4328 | 1.4328 | 156.45 | .64481 | 65.314 |
| #1 | .02027 | -.00175 | 230.25 | .00282 | .00242 | 1.0950 | 2.3434 | .00002 | .20147 | -.00112 |
| #2 | .02018 | -.00084 | 229.96 | -.00108 | .00531 | 1.0731 | 2.2964 | -.00035 | .20332 | -.00304 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **.00081** | **.00624** | **.00096** | **.00376** | **.00247** |
| Stddev | .00002 | .00071 | .03581 | .00030 | .00038 | .00025 |
| %RSD | 5.4829 | 87.595 | 574.39 | 31.381 | 10.015 | 10.071 |
| #1 | -.00038 | .00031 | -.01909 | .00075 | .00350 | .00230 |
| #2 | -.00041 | .00132 | .03156 | .00117 | .00403 | .00265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8213.0** | **82285.** | **8555.9** |
| Stddev | 4.6 | 46. | 24.5 |
| %RSD | .05596 | .05543 | .28588 |
| #1 | 8216.3 | 82317. | 8538.6 |
| #2 | 8209.8 | 82253. | 8573.2 |

Sample Name: 280-42190-c-1-e@5 Acquired: 5/23/2013 16:08:03 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175433 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00310** | **75.829** | **.76557** | **-.00245** | **.00002** | **.00459** | **-.00470** | **60.331** | **.04258** | **.12596** |
| Stddev | .00031 | .220 | .00210 | .00005 | .00032 | .00000 | .00010 | .284 | .00009 | .00011 |
| %RSD | 10.138 | .29011 | .27453 | 2.1842 | 1905.4 | .01372 | 2.1967 | .47017 | .20887 | .08411 |
| #1 | -.00288 | 75.673 | .76706 | -.00248 | -.00021 | .00459 | -.00463 | 60.131 | .04264 | .12589 |
| #2 | -.00333 | 75.985 | .76408 | -.00241 | .00025 | .00459 | -.00477 | 60.532 | .04252 | .12604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19849** | **7.0419** | **270.96** | **3.9775** | **.13956** | **36.813** | **1.9855** | **.13427** | **12.935** | **.20869** |
| Stddev | .00046 | .0110 | .79 | .0128 | .00059 | .145 | .0208 | .00015 | .091 | .00027 |
| %RSD | .22976 | .15595 | .29059 | .32274 | .42014 | .39424 | 1.0478 | .11177 | .70297 | .12864 |
| #1 | .19881 | 7.0497 | 270.41 | 3.9866 | .13998 | 36.710 | 1.9708 | .13417 | 12.871 | .20888 |
| #2 | .19817 | 7.0341 | 271.52 | 3.9685 | .13915 | 36.916 | 2.0002 | .13438 | 13.000 | .20850 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.332** | **.01222** | F **401.88** | **-.00644** | **.00007** | **10.931** | **23.393** | **.00133** | **.09370** | **.19920** |
| Stddev | .030 | .00042 | .24 | .00066 | .00294 | .040 | .085 | .00020 | .00012 | .00016 |
| %RSD | .23935 | 3.4127 | .05997 | 10.222 | 3976.1 | .36155 | .36155 | 14.751 | .12314 | .08037 |
| #1 | 12.353 | .01251 | 401.71 | -.00598 | -.00201 | 10.903 | 23.333 | .00147 | .09362 | .19909 |
| #2 | 12.311 | .01192 | 402.05 | -.00691 | .00215 | 10.959 | 23.453 | .00119 | .09378 | .19931 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03543** | **-.00949** | F **-.29108** | **.11520** | **1.3567** | **.00657** |
| Stddev | .00035 | .00084 | .01865 | .00079 | .0080 | .00204 |
| %RSD | .98152 | 8.8612 | 6.4067 | .68151 | .59258 | 31.138 |
| #1 | .03518 | -.01008 | -.27789 | .11576 | 1.3510 | .00512 |
| #2 | .03567 | -.00889 | -.30426 | .11465 | 1.3624 | .00801 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10463.** | **106230.** | **10987.** |
| Stddev | 18. | 905. | 89. |
| %RSD | .17307 | .85157 | .81286 |
| #1 | 10476. | 106870. | 11050. |
| #2 | 10451. | 105590. | 10924. |

Sample Name: 280-42190-c-1-e@10 Acquired: 5/23/2013 16:10:24 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175433 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00275** | **42.336** | **.42650** | **-.00147** | **.00007** | **.00260** | **-.00407** | **33.756** | **.02358** | **.07160** |
| Stddev | .00048 | .033 | .00305 | .00036 | .00018 | .00009 | .00336 | .072 | .00003 | .00028 |
| %RSD | 17.566 | .07753 | .71550 | 24.607 | 271.24 | 3.2874 | 82.715 | .21389 | .14766 | .39445 |
| #1 | -.00309 | 42.313 | .42866 | -.00173 | .00019 | .00267 | -.00644 | 33.807 | .02356 | .07140 |
| #2 | -.00241 | 42.360 | .42434 | -.00122 | -.00006 | .00254 | -.00169 | 33.705 | .02361 | .07180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11188** | **3.9294** | **152.60** | **2.2562** | **.07564** | **20.818** | **1.1215** | **.07515** | **6.4248** | **.11926** |
| Stddev | .00032 | .0045 | .31 | .0052 | .00132 | .026 | .0012 | .00057 | .0314 | .00015 |
| %RSD | .28281 | .11342 | .20594 | .23239 | 1.7388 | .12635 | .10409 | .75982 | .48819 | .12245 |
| #1 | .11166 | 3.9262 | 152.38 | 2.2599 | .07471 | 20.799 | 1.1207 | .07555 | 6.4027 | .11916 |
| #2 | .11211 | 3.9325 | 152.83 | 2.2525 | .07657 | 20.837 | 1.1223 | .07474 | 6.4470 | .11937 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.9014** | **.00729** | F **227.91** | **-.00388** | **.00117** | **6.1486** | **13.158** | **.00059** | **.05255** | **.11278** |
| Stddev | .0007 | .00127 | .01 | .00165 | .00277 | .0626 | .134 | .00044 | .00006 | .00015 |
| %RSD | .00974 | 17.366 | .00650 | 42.515 | 237.28 | 1.0184 | 1.0184 | 75.036 | .12278 | .12921 |
| #1 | 6.9019 | .00639 | 227.92 | -.00505 | -.00079 | 6.1043 | 13.063 | .00028 | .05259 | .11288 |
| #2 | 6.9010 | .00818 | 227.90 | -.00271 | .00313 | 6.1929 | 13.253 | .00090 | .05250 | .11268 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01957** | **-.00489** | F **-.16656** | **.06456** | **.77234** | **.00405** |
| Stddev | .00015 | .00051 | .00592 | .00016 | .00220 | .00207 |
| %RSD | .76980 | 10.501 | 3.5518 | .25369 | .28493 | 51.185 |
| #1 | .01947 | -.00453 | -.16238 | .06468 | .77079 | .00551 |
| #2 | .01968 | -.00526 | -.17074 | .06445 | .77390 | .00258 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9572.7** | **97061.** | **9824.8** |
| Stddev | 43.3 | 86. | 10.6 |
| %RSD | .45243 | .08856 | .10810 |
| #1 | 9603.3 | 97122. | 9817.3 |
| #2 | 9542.0 | 97000. | 9832.3 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 16:12:35 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00113** | **49.349** | **.00113** | **.00086** | **-.00005** | **.00002** | **1.0226** | **-.00388** | **.00029** | **.00054** | **.00004** | **.00057** | **50.394** |
| Stddev | .00029 | .071 | .00313 | .00001 | .00013 | .00003 | .0013 | .00164 | .00020 | .00011 | .00001 | .00028 | .065 |
| %RSD | 25.647 | .14367 | 278.18 | .93786 | 268.87 | 184.31 | .12717 | 42.263 | 69.760 | 20.616 | 24.281 | 48.868 | .12820 |
| #1 | -.00092 | 49.399 | -.00109 | .00087 | .00004 | .00004 | 1.0217 | -.00272 | .00043 | .00047 | .00003 | .00038 | 50.440 |
| #2 | -.00133 | 49.299 | .00334 | .00086 | -.00014 | -.00001 | 1.0236 | -.00504 | .00015 | .00062 | .00005 | .00077 | 50.348 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11935** | **.00320** | **.03684** | **.00007** | **-.00039** | **253.86** | **.00034** | **.00370** | **-.00258** | **4.9552** | **.00054** | **.00303** | **.02009** |
| Stddev | .09219 | .00457 | .00269 | .00002 | .00003 | .23 | .00021 | .00036 | .00055 | .0008 | .00111 | .00043 | .01794 |
| %RSD | 77.240 | 142.81 | 7.2929 | 34.738 | 7.9814 | .09124 | 61.337 | 9.8430 | 21.228 | .01716 | 205.32 | 14.342 | 89.295 |
| #1 | .18454 | .00644 | .03494 | .00005 | -.00037 | 254.03 | .00049 | .00344 | -.00296 | 4.9558 | -.00024 | .00334 | .00740 |
| #2 | .05417 | -.00003 | .03874 | .00008 | -.00041 | 253.70 | .00019 | .00396 | -.00219 | 4.9546 | .00133 | .00272 | .03277 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04299** | **.00052** | **.00028** | **4.9105** | **.00165** | **.00129** | **10.406** | **.00025** | **.00093** | **.00224** |
| Stddev | .03839 | .00078 | .00005 | .0049 | .00023 | .00013 | .021 | .00001 | .00035 | .00071 |
| %RSD | 89.295 | 151.65 | 17.181 | .10019 | 13.888 | 10.229 | .20099 | 5.3760 | 38.015 | 31.876 |
| #1 | .01584 | .00107 | .00025 | 4.9140 | .00149 | .00119 | 10.391 | .00024 | .00118 | .00173 |
| #2 | .07013 | -.00004 | .00032 | 4.9070 | .00181 | .00138 | 10.420 | .00026 | .00068 | .00274 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8172.5** | **82831.** | **8497.7** |
| Stddev | 14.5 | 67. | 16.7 |
| %RSD | .17728 | .08038 | .19695 |
| #1 | 8182.7 | 82784. | 8485.9 |
| #2 | 8162.2 | 82878. | 8509.6 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 16:14:56 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51008** | **.51221** | **1.0049** | **.51017** | **.49740** | **.48168** | **-.00006** | **4.9127** | **.49497** | **.50262** | **.51162** | F **.55328** | **2.4372** |
| Stddev | .00022 | .00046 | .0011 | .00079 | .00088 | .00046 | .00170 | .0003 | .00015 | .00046 | .00090 | .00106 | .0071 |
| %RSD | .04312 | .08956 | .11128 | .15471 | .17633 | .09547 | 2661.3 | .00699 | .03128 | .09060 | .17616 | .19168 | .29290 |
| #1 | .51024 | .51188 | 1.0041 | .50962 | .49678 | .48135 | -.00126 | 4.9130 | .49507 | .50229 | .51099 | .55253 | 2.4422 |
| #2 | .50993 | .51253 | 1.0057 | .51073 | .49802 | .48200 | .00114 | 4.9125 | .49486 | .50294 | .51226 | .55403 | 2.4321 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | | | 10.490% | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.047** | **.98040** | **19.832** | **.49323** | **.50708** | **5.0546** | **.51621** | **1.0032** | **1.0006** | **.03557** | **.99864** | **1.0120** | **5.0618** |
| Stddev | .075 | .00098 | .026 | .00058 | .00020 | .0079 | .00012 | .0010 | .0003 | .00019 | .00279 | .0018 | .0130 |
| %RSD | .15216 | .10027 | .13061 | .11812 | .03882 | .15650 | .02294 | .09440 | .03085 | .52288 | .27912 | .18140 | .25669 |
| #1 | 49.100 | .97971 | 19.814 | .49282 | .50694 | 5.0490 | .51629 | 1.0039 | 1.0008 | .03544 | 1.0006 | 1.0133 | 5.0526 |
| #2 | 48.995 | .98110 | 19.850 | .49364 | .50722 | 5.0602 | .51612 | 1.0025 | 1.0004 | .03570 | .99667 | 1.0107 | 5.0710 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.832** | **1.0134** | **.49482** | **.00094** | **.49811** | **1.0153** | **-.00301** | **.48260** | **.52948** | **.49868** |
| Stddev | .028 | .0033 | .00075 | .00124 | .00155 | .0016 | .02895 | .00049 | .00150 | .00083 |
| %RSD | .25669 | .32135 | .15120 | 131.93 | .31061 | .15963 | 961.28 | .10131 | .28373 | .16742 |
| #1 | 10.813 | 1.0111 | .49429 | .00006 | .49702 | 1.0141 | -.02348 | .48225 | .52842 | .49927 |
| #2 | 10.852 | 1.0157 | .49535 | .00181 | .49921 | 1.0164 | .01746 | .48294 | .53054 | .49809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8455.7** | **86317.** | **8606.6** |
| Stddev | 9.7 | 114. | 33.4 |
| %RSD | .11512 | .13166 | .38759 |
| #1 | 8462.6 | 86236. | 8630.2 |
| #2 | 8448.9 | 86397. | 8583.0 |

Sample Name: CCB Acquired: 5/23/2013 16:17:03 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **.00025** | **-.00312** | **-.00004** | **-.00022** | **-.00001** | **-.00086** | **.00134** | **-.00009** | **.00013** | **.00022** | **-.00037** |
| Stddev | .00004 | .00006 | .00040 | .00065 | .00053 | .00004 | .00078 | .00281 | .00014 | .00029 | .00012 | .00012 |
| %RSD | 11.601 | 23.355 | 12.915 | 1792.7 | 235.30 | 389.31 | 90.867 | 208.67 | 157.89 | 216.01 | 54.606 | 32.906 |
| #1 | -.00035 | .00021 | -.00283 | .00042 | -.00060 | -.00003 | -.00031 | -.00064 | .00001 | .00033 | .00030 | -.00028 |
| #2 | -.00041 | .00029 | -.00340 | -.00049 | .00015 | .00002 | -.00141 | .00333 | -.00019 | -.00007 | .00013 | -.00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.13069** | **.00092** | **.00148** | **.00003** | **.00013** | **.07453** | **.00017** | **.00002** | **-.00205** | **.02751** | W **.00416** |
| Stddev | .00199 | .08703 | .00138 | .00206 | .00003 | .00045 | .01484 | .00009 | .00037 | .00161 | .00029 | .00120 |
| %RSD | 618.61 | 66.589 | 149.81 | 138.73 | 82.991 | 336.25 | 19.911 | 51.500 | 1590.4 | 78.518 | 1.0388 | 28.838 |
| #1 | .00173 | .19223 | -.00005 | .00003 | .00005 | -.00018 | .06404 | .00023 | -.00024 | -.00318 | .02731 | .00501 |
| #2 | -.00108 | .06915 | .00190 | .00294 | .00001 | .00045 | .08503 | .00011 | .00028 | -.00091 | .02771 | .00331 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00262** | W **.03698** | **.07914** | **-.00005** | **.00003** | **-.00162** | **-.00021** | **.00074** | **.00966** | **-.00031** | **.00238** | **.00128** |
| Stddev | .00241 | .00111 | .00238 | .00078 | .00009 | .00014 | .00049 | .00020 | .00952 | .00041 | .00021 | .00219 |
| %RSD | 91.941 | 3.0119 | 3.0119 | 1533.8 | 339.19 | 8.6271 | 228.12 | 27.464 | 98.573 | 132.22 | 8.9601 | 171.00 |
| #1 | .00433 | .03619 | .07745 | -.00060 | -.00004 | -.00172 | .00013 | .00088 | .00293 | -.00002 | .00253 | .00282 |
| #2 | .00092 | .03777 | .08082 | .00050 | .00009 | -.00152 | -.00056 | .00060 | .01639 | -.00061 | .00223 | -.00027 |
| Check ? | Chk Pass | Chk Warn | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .03470 | | | | | | | | | | |
| Low Limit | | -.06940 | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8451.9** | **86875.** | **8398.3** |
| Stddev | 16.6 | 310. | 5.8 |
| %RSD | .19664 | .35722 | .06849 |
| #1 | 8440.1 | 87094. | 8394.3 |
| #2 | 8463.6 | 86655. | 8402.4 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 16:19:18 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01003** | **.10647** | **.01465** | **.10374** | **.00970** | **.00094** | **.11623** | **.20362** | **.00508** | **.01074** | **.01050** | **.01585** | **.09927** |
| Stddev | .00041 | .00002 | .00049 | .00077 | .00022 | .00004 | .00046 | .00645 | .00013 | .00014 | .00016 | .00013 | .00156 |
| %RSD | 4.1256 | .02092 | 3.3348 | .74314 | 2.2750 | 4.5881 | .39224 | 3.1695 | 2.4942 | 1.3079 | 1.5352 | .84476 | 1.5720 |
| #1 | .01032 | .10648 | .01499 | .10319 | .00986 | .00091 | .11591 | .20819 | .00517 | .01084 | .01038 | .01594 | .09817 |
| #2 | .00974 | .10645 | .01430 | .10428 | .00954 | .00098 | .11655 | .19906 | .00499 | .01064 | .01061 | .01575 | .10038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0749** | F **.01451** | **.20975** | **.01025** | **.02082** | **1.0773** | **.04261** | **2.9873** | **.00853** | **.02049** | **.01116** | **.01589** | **.54140** |
| Stddev | .0136 | .00178 | .00134 | .00005 | .00012 | .0081 | .00004 | .0053 | .00007 | .00034 | .00004 | .00248 | .00250 |
| %RSD | .44350 | 12.294 | .64076 | .49531 | .59393 | .75067 | .08545 | .17684 | .78142 | 1.6364 | .35952 | 15.618 | .46089 |
| #1 | 3.0845 | .01577 | .21070 | .01021 | .02091 | 1.0830 | .04263 | 2.9835 | .00848 | .02072 | .01113 | .01414 | .54316 |
| #2 | 3.0652 | .01325 | .20880 | .01029 | .02073 | 1.0716 | .04258 | 2.9910 | .00857 | .02025 | .01119 | .01765 | .53963 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1586** | **.10550** | **.01001** | **.01522** | **.00963** | **.01657** | **.06122** | **.00945** | **.02247** | **.01648** |
| Stddev | .0053 | .00015 | .00003 | .00119 | .00029 | .00049 | .00087 | .00074 | .00039 | .00059 |
| %RSD | .46089 | .14070 | .27172 | 7.7886 | 3.0621 | 2.9520 | 1.4210 | 7.8509 | 1.7139 | 3.5765 |
| #1 | 1.1624 | .10560 | .01003 | .01606 | .00942 | .01622 | .06183 | .00893 | .02220 | .01606 |
| #2 | 1.1548 | .10539 | .00999 | .01438 | .00984 | .01691 | .06060 | .00998 | .02274 | .01689 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8608.0** | **88132.** | **8565.5** |
| Stddev | 29.2 | 140. | 28.8 |
| %RSD | .33946 | .15832 | .33575 |
| #1 | 8587.4 | 88231. | 8545.2 |
| #2 | 8628.7 | 88033. | 8585.8 |

Sample Name: mb 280-175463/1-a  Acquired: 5/23/2013 16:21:34  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **.00325** | **-.00266** | **-.00001** | **-.00035** | **-.00007** | **-.00053** | **.02574** | **.00014** | **-.00002** |
| Stddev | .00003 | .00002 | .00091 | .00018 | .00010 | .00004 | .00069 | .00039 | .00018 | .00002 |
| %RSD | 4.8702 | .56770 | 34.104 | 2027.4 | 29.102 | 55.152 | 128.84 | 1.5115 | 126.57 | 130.82 |
| #1 | -.00052 | .00324 | -.00202 | -.00013 | -.00042 | -.00004 | -.00005 | .02602 | .00027 | .00000 |
| #2 | -.00056 | .00326 | -.00330 | .00012 | -.00028 | -.00010 | -.00102 | .02547 | .00001 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **-.00006** | **.03034** | **.04882** | **-.00055** | **.00302** | **.00018** | **.00009** | **.02095** | **.00018** |
| Stddev | .00007 | .00013 | .00115 | .00363 | .00018 | .00251 | .00005 | .00001 | .01544 | .00012 |
| %RSD | 332.52 | 199.79 | 3.7963 | 7.4310 | 32.919 | 83.264 | 27.735 | 7.5785 | 73.664 | 69.139 |
| #1 | .00007 | .00003 | .02952 | .05139 | -.00042 | .00124 | .00015 | .00009 | .01004 | .00009 |
| #2 | -.00003 | -.00016 | .03115 | .04626 | -.00068 | .00480 | .00022 | .00010 | .03187 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24367** | **-.00103** | **.02028** | **.00083** | **.00232** | **.07342** | **.15712** | **-.00016** | **-.00001** | **-.00099** |
| Stddev | .00303 | .00030 | .00268 | .00121 | .00135 | .00339 | .00726 | .00013 | .00000 | .00021 |
| %RSD | 1.2417 | 28.691 | 13.226 | 145.17 | 58.237 | 4.6201 | 4.6201 | 79.819 | 58.163 | 21.645 |
| #1 | .24581 | -.00082 | .02218 | -.00002 | .00137 | .07582 | .16225 | -.00007 | .00000 | -.00114 |
| #2 | .24153 | -.00124 | .01839 | .00169 | .00328 | .07102 | .15199 | -.00025 | -.00001 | -.00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **-.00068** | **.01348** | **.00010** | **.00316** | **.00167** |
| Stddev | .00030 | .00067 | .02531 | .00081 | .00010 | .00104 |
| %RSD | 91.412 | 98.740 | 187.76 | 844.25 | 3.1046 | 62.325 |
| #1 | -.00054 | -.00021 | -.00442 | .00067 | .00309 | .00093 |
| #2 | -.00012 | -.00116 | .03137 | -.00047 | .00323 | .00241 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8635.6** | **89621.** | **8706.2** |
| Stddev | 6.0 | 270. | 85.5 |
| %RSD | .06948 | .30141 | .98232 |
| #1 | 8631.3 | 89430. | 8766.7 |
| #2 | 8639.8 | 89812. | 8645.7 |

Sample Name: lcs 280-175463/2-a Acquired: 5/23/2013 16:23:48 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05077** | **1.9167** | **.99998** | **1.0099** | **1.9758** | **.04799** | **2.1628** | **48.342** | **.09901** | **.48428** |
| Stddev | .00121 | .0028 | .00685 | .0039 | .0013 | .00004 | .0049 | .046 | .00046 | .00222 |
| %RSD | 2.3828 | .14446 | .68528 | .38775 | .06321 | .08015 | .22605 | .09582 | .46123 | .45851 |
| #1 | .05162 | 1.9187 | 1.0048 | 1.0126 | 1.9767 | .04802 | 2.1662 | 48.309 | .09933 | .48585 |
| #2 | .04991 | 1.9148 | .99513 | 1.0071 | 1.9749 | .04796 | 2.1593 | 48.374 | .09869 | .48271 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20168** | **.24600** | **.96005** | **48.295** | **.96106** | **48.836** | **.48372** | **1.0209** | **51.568** | **.49706** |
| Stddev | .00071 | .00048 | .00432 | .000 | .00000 | .086 | .00022 | .0034 | .053 | .00075 |
| %RSD | .34965 | .19314 | .44968 | .00076 | .00026 | .17678 | .04636 | .33140 | .10185 | .15001 |
| #1 | .20218 | .24634 | .95699 | 48.295 | .96106 | 48.775 | .48356 | 1.0233 | 51.531 | .49759 |
| #2 | .20118 | .24567 | .96310 | 48.294 | .96106 | 48.897 | .48388 | 1.0185 | 51.606 | .49653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.293** | **.48155** | **.01325** | **.52133** | **2.0249** | **10.322** | **22.089** | **2.0041** | **.98128** | **.99407** |
| Stddev | .036 | .00330 | .00461 | .00019 | .0097 | .044 | .094 | .0047 | .00030 | .00029 |
| %RSD | .34725 | .68485 | 34.754 | .03722 | .47899 | .42729 | .42729 | .23413 | .03023 | .02887 |
| #1 | 10.318 | .48388 | .01000 | .52120 | 2.0317 | 10.353 | 22.156 | 2.0074 | .98149 | .99387 |
| #2 | 10.268 | .47922 | .01651 | .52147 | 2.0180 | 10.291 | 22.022 | 2.0008 | .98107 | .99427 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0070** | **1.9274** | **2.1372** | **.48473** | **.49471** | **.49871** |
| Stddev | .0004 | .0055 | .0072 | .00026 | .00131 | .00187 |
| %RSD | .04289 | .28635 | .33741 | .05271 | .26573 | .37533 |
| #1 | 1.0067 | 1.9313 | 2.1321 | .48455 | .49378 | .49738 |
| #2 | 1.0073 | 1.9235 | 2.1423 | .48491 | .49563 | .50003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8262.6** | **83872.** | **8686.4** |
| Stddev | 16.8 | 119. | 26.7 |
| %RSD | .20347 | .14232 | .30719 |
| #1 | 8274.5 | 83957. | 8667.6 |
| #2 | 8250.7 | 83788. | 8705.3 |

Sample Name: 280-42039-f-11-d  Acquired: 5/23/2013 16:25:54  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00138** | **.01608** | **.00058** | **.00196** | **.00080** | **.00005** | **-.00182** | **.10411** | **.00025** | **.00004** |
| Stddev | .00024 | .00036 | .00096 | .00001 | .00010 | .00004 | .00149 | .00245 | .00024 | .00005 |
| %RSD | 17.515 | 2.2237 | 166.46 | .43793 | 12.569 | 83.530 | 81.994 | 2.3562 | 95.326 | 122.88 |
| #1 | -.00121 | .01583 | -.00010 | .00195 | .00087 | .00007 | -.00076 | .10585 | .00008 | .00007 |
| #2 | -.00155 | .01633 | .00126 | .00197 | .00072 | .00002 | -.00287 | .10238 | .00042 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00037** | **.02854** | **.12092** | **.00179** | **.01512** | **.00086** | **.00069** | **.06377** | **.00034** |
| Stddev | .00005 | .00047 | .00024 | .07869 | .00211 | .00065 | .00000 | .00003 | .01008 | .00056 |
| %RSD | 25.190 | 129.16 | .85442 | 65.075 | 117.79 | 4.2856 | .00219 | 4.4415 | 15.811 | 164.75 |
| #1 | .00026 | .00070 | .02837 | .06528 | .00329 | .01558 | .00086 | .00067 | .07090 | .00073 |
| #2 | .00018 | .00003 | .02871 | .17656 | .00030 | .01467 | .00086 | .00072 | .05664 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24131** | **-.00115** | **.04605** | **-.00094** | **.00227** | **.08795** | **.18822** | **.00048** | **.00035** | **.00111** |
| Stddev | .00062 | .00021 | .00075 | .00067 | .00037 | .01166 | .02496 | .00009 | .00001 | .00054 |
| %RSD | .25613 | 18.614 | 1.6329 | 71.768 | 16.111 | 13.259 | 13.259 | 19.175 | 2.4349 | 48.854 |
| #1 | .24175 | -.00100 | .04659 | -.00046 | .00201 | .07971 | .17057 | .00055 | .00036 | .00150 |
| #2 | .24088 | -.00130 | .04552 | -.00141 | .00253 | .09620 | .20587 | .00042 | .00035 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.00074** | **.01636** | **-.00003** | **.00408** | **.00161** |
| Stddev | .00014 | .00056 | .04122 | .00001 | .00035 | .00400 |
| %RSD | 24.952 | 76.329 | 251.99 | 18.359 | 8.5645 | 248.61 |
| #1 | .00064 | .00034 | -.01279 | -.00003 | .00383 | .00444 |
| #2 | .00045 | .00114 | .04551 | -.00003 | .00433 | -.00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8564.4** | **88987.** | **8653.2** |
| Stddev | 7.5 | 319. | 74.5 |
| %RSD | .08804 | .35878 | .86151 |
| #1 | 8559.1 | 89212. | 8705.9 |
| #2 | 8569.7 | 88761. | 8600.5 |

Sample Name: 280-42039-f-11-dSD@5 Acquired: 5/23/2013 16:28:08 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00123** | **.00506** | **-.00100** | **.00013** | **.00016** | **.00006** | **-.00350** | **.02650** | **-.00009** | **.00013** |
| Stddev | .00012 | .00007 | .00043 | .00059 | .00037 | .00010 | .00123 | .00016 | .00004 | .00023 |
| %RSD | 10.002 | 1.4546 | 43.313 | 443.26 | 232.52 | 170.48 | 34.990 | .61699 | 47.784 | 173.29 |
| #1 | -.00131 | .00511 | -.00130 | -.00029 | -.00010 | .00013 | -.00264 | .02638 | -.00006 | -.00003 |
| #2 | -.00114 | .00501 | -.00069 | .00055 | .00042 | -.00001 | -.00437 | .02661 | -.00012 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00010** | **.02935** | **.04158** | **.00193** | **.00371** | **.00046** | **.00024** | **.00849** | **.00001** |
| Stddev | .00005 | .00000 | .00382 | .06474 | .00276 | .00096 | .00003 | .00005 | .00746 | .00010 |
| %RSD | 36.253 | 4.1468 | 13.004 | 155.70 | 142.61 | 25.826 | 5.8373 | 21.524 | 87.817 | 814.07 |
| #1 | .00019 | .00009 | .02666 | .08736 | .00388 | .00303 | .00045 | .00028 | .00322 | .00009 |
| #2 | .00011 | .00010 | .03205 | -.00420 | -.00002 | .00438 | .00048 | .00020 | .01376 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04770** | **-.00151** | **.01749** | **-.00101** | **.00066** | **.04340** | **.09287** | **.00036** | **.00012** | **.00050** |
| Stddev | .00018 | .00024 | .00285 | .00053 | .00074 | .01877 | .04016 | .00069 | .00003 | .00043 |
| %RSD | .36856 | 15.934 | 16.273 | 51.934 | 113.20 | 43.240 | 43.240 | 190.94 | 26.604 | 85.885 |
| #1 | .04757 | -.00168 | .01950 | -.00064 | .00013 | .05667 | .12127 | -.00013 | .00014 | .00020 |
| #2 | .04782 | -.00134 | .01548 | -.00139 | .00118 | .03013 | .06448 | .00085 | .00010 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.00078** | **.01741** | **-.00031** | **.00437** | **.00119** |
| Stddev | .00005 | .00050 | .02851 | .00045 | .00012 | .00139 |
| %RSD | 26.111 | 64.306 | 163.82 | 145.48 | 2.6356 | 117.38 |
| #1 | -.00024 | .00114 | .03757 | -.00063 | .00429 | .00020 |
| #2 | -.00016 | .00043 | -.00276 | .00001 | .00445 | .00217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8574.4** | **88110.** | **8553.7** |
| Stddev | 22.0 | 83. | 19.5 |
| %RSD | .25681 | .09413 | .22824 |
| #1 | 8590.0 | 88051. | 8539.9 |
| #2 | 8558.9 | 88168. | 8567.5 |

Sample Name: 280-42039-f-11-e ms  Acquired: 5/23/2013 16:30:22  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04728** | **1.8027** | **.93468** | **.94250** | **1.8441** | **.04465** | F **2.0203** | **45.221** | **.09239** | **.45293** |
| Stddev | .00064 | .0030 | .00120 | .00208 | .0111 | .00014 | .0002 | .158 | .00001 | .00069 |
| %RSD | 1.3611 | .16483 | .12877 | .22101 | .60071 | .30894 | .00897 | .35041 | .01040 | .15241 |
| #1 | .04683 | 1.8048 | .93553 | .94103 | 1.8363 | .04455 | 2.0205 | 45.109 | .09238 | .45245 |
| #2 | .04774 | 1.8006 | .93383 | .94398 | 1.8520 | .04475 | 2.0202 | 45.333 | .09240 | .45342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18881** | **.23008** | **1.0815** | **45.137** | **.89824** | **45.681** | **.45352** | **.95311** | **47.877** | **.46549** |
| Stddev | .00002 | .00010 | .0073 | .219 | .00530 | .051 | .00052 | .00103 | .125 | .00022 |
| %RSD | .00927 | .04405 | .67117 | .48569 | .58949 | .11100 | .11520 | .10848 | .26123 | .04739 |
| #1 | .18880 | .23001 | 1.0764 | 44.982 | .89450 | 45.717 | .45315 | .95238 | 47.966 | .46534 |
| #2 | .18882 | .23015 | 1.0866 | 45.292 | .90199 | 45.645 | .45388 | .95385 | 47.789 | .46565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.6222** | **.45126** | **.01242** | **.48988** | **1.8915** | **9.6956** | **20.749** | **1.8763** | **.91549** | **.92615** |
| Stddev | .0063 | .00235 | .00107 | .00300 | .0062 | .0619 | .133 | .0034 | .00455 | .00362 |
| %RSD | .06515 | .52122 | 8.6072 | .61306 | .32712 | .63897 | .63897 | .17919 | .49646 | .39094 |
| #1 | 9.6178 | .44960 | .01167 | .49200 | 1.8871 | 9.6518 | 20.655 | 1.8739 | .91227 | .92871 |
| #2 | 9.6266 | .45293 | .01318 | .48776 | 1.8959 | 9.7394 | 20.842 | 1.8787 | .91870 | .92359 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93842** | **1.8065** | **2.0222** | **.45444** | **.46304** | **.46533** |
| Stddev | .00083 | .0047 | .0448 | .00138 | .00005 | .00142 |
| %RSD | .08826 | .26200 | 2.2170 | .30439 | .01162 | .30579 |
| #1 | .93784 | 1.8032 | 2.0539 | .45346 | .46301 | .46433 |
| #2 | .93901 | 1.8099 | 1.9905 | .45542 | .46308 | .46634 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8252.4** | **83476.** | **8591.3** |
| Stddev | 16.5 | 5. | 91.3 |
| %RSD | .20016 | .00615 | 1.0632 |
| #1 | 8264.1 | 83479. | 8655.9 |
| #2 | 8240.7 | 83472. | 8526.7 |

Sample Name: 280-42039-f-11-f msd  Acquired: 5/23/2013 16:32:27  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04676** | **1.7775** | **.91708** | **.92662** | **1.8160** | **.04410** | F **1.9940** | **44.576** | **.09105** | **.44608** |
| Stddev | .00007 | .0003 | .00253 | .00144 | .0068 | .00009 | .0027 | .200 | .00016 | .00070 |
| %RSD | .14678 | .01433 | .27600 | .15521 | .37203 | .19458 | .13690 | .44766 | .17520 | .15790 |
| #1 | .04681 | 1.7773 | .91887 | .92561 | 1.8113 | .04404 | 1.9959 | 44.435 | .09094 | .44558 |
| #2 | .04671 | 1.7777 | .91529 | .92764 | 1.8208 | .04416 | 1.9921 | 44.717 | .09116 | .44658 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18531** | **.22721** | **.89147** | **44.779** | **.88647** | **45.105** | **.44714** | **.93516** | **47.407** | **.45680** |
| Stddev | .00033 | .00030 | .00830 | .176 | .00689 | .120 | .00136 | .00001 | .653 | .00041 |
| %RSD | .17707 | .13308 | .93117 | .39224 | .77721 | .26546 | .30305 | .00150 | 1.3769 | .08945 |
| #1 | .18507 | .22700 | .88560 | 44.655 | .88160 | 45.190 | .44810 | .93515 | 46.945 | .45651 |
| #2 | .18554 | .22743 | .89733 | 44.903 | .89134 | 45.021 | .44618 | .93517 | 47.869 | .45708 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.4584** | **.44612** | **.01400** | **.47928** | **1.8644** | **9.5893** | **20.521** | **1.8414** | **.90411** | **.91339** |
| Stddev | .0072 | .00043 | .00072 | .00555 | .0016 | .0237 | .051 | .0036 | .00366 | .00188 |
| %RSD | .07653 | .09638 | 5.1496 | 1.1579 | .08579 | .24729 | .24729 | .19366 | .40537 | .20584 |
| #1 | 9.4533 | .44643 | .01451 | .48320 | 1.8632 | 9.5725 | 20.485 | 1.8389 | .90152 | .91472 |
| #2 | 9.4636 | .44582 | .01349 | .47535 | 1.8655 | 9.6061 | 20.557 | 1.8439 | .90670 | .91206 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92615** | **1.7837** | **1.9855** | **.44771** | **.45791** | **.45866** |
| Stddev | .00033 | .0013 | .0039 | .00234 | .00135 | .00260 |
| %RSD | .03614 | .07325 | .19620 | .52337 | .29410 | .56615 |
| #1 | .92638 | 1.7846 | 1.9827 | .44936 | .45886 | .45682 |
| #2 | .92591 | 1.7827 | 1.9883 | .44605 | .45696 | .46049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8312.0** | **83839.** | **8534.4** |
| Stddev | 16.6 | 119. | 28.0 |
| %RSD | .19918 | .14234 | .32786 |
| #1 | 8323.7 | 83923. | 8514.6 |
| #2 | 8300.3 | 83755. | 8554.1 |

Sample Name: 280-42039-f-11-dPDS  Acquired: 5/23/2013 16:34:35  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05179** | **1.0448** | **.20160** | **.10923** | **.10202** | **.04882** | **-.00189** | **19.834** | **.05069** | **.05132** |
| Stddev | .00045 | .0009 | .00019 | .00011 | .00096 | .00045 | .00394 | .159 | .00008 | .00007 |
| %RSD | .85934 | .08553 | .09285 | .09721 | .93639 | .92404 | 208.43 | .80207 | .15399 | .13563 |
| #1 | .05210 | 1.0442 | .20146 | .10916 | .10134 | .04850 | .00090 | 19.722 | .05063 | .05127 |
| #2 | .05147 | 1.0455 | .20173 | .10931 | .10269 | .04914 | -.00468 | 19.947 | .05074 | .05137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05299** | **.05186** | **1.0530** | **19.841** | **.10166** | **20.016** | **.05164** | **.05404** | **21.344** | **.05268** |
| Stddev | .00026 | .00041 | .0032 | .135 | .00069 | .055 | .00015 | .00024 | .028 | .00036 |
| %RSD | .49567 | .78799 | .30648 | .67907 | .68086 | .27303 | .28471 | .44383 | .13035 | .67974 |
| #1 | .05280 | .05215 | 1.0507 | 19.745 | .10215 | 19.977 | .05154 | .05387 | 21.364 | .05294 |
| #2 | .05317 | .05157 | 1.0553 | 19.936 | .10117 | 20.055 | .05175 | .05421 | 21.324 | .05243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3079** | **.10159** | **.03782** | **.10463** | **.20674** | **5.3891** | **11.533** | **.10711** | **.05194** | **.20407** |
| Stddev | .0000 | .00030 | .00034 | .00008 | .00139 | .0500 | .107 | .00057 | .00043 | .00098 |
| %RSD | .00128 | .29913 | .89168 | .07481 | .67284 | .92761 | .92761 | .53234 | .82251 | .47803 |
| #1 | 2.3079 | .10181 | .03806 | .10469 | .20772 | 5.3538 | 11.457 | .10670 | .05164 | .20476 |
| #2 | 2.3078 | .10138 | .03758 | .10458 | .20575 | 5.4245 | 11.608 | .10751 | .05224 | .20338 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05296** | **.20799** | **.57029** | **.05016** | **.21022** | **.05237** |
| Stddev | .00034 | .00118 | .04569 | .00013 | .00179 | .00047 |
| %RSD | .63330 | .56721 | 8.0121 | .25291 | .85159 | .89372 |
| #1 | .05320 | .20715 | .53799 | .05007 | .21149 | .05204 |
| #2 | .05273 | .20882 | .60260 | .05025 | .20896 | .05270 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8290.5** | **85186.** | **8603.3** |
| Stddev | 1.8 | 318. | 120.3 |
| %RSD | .02167 | .37380 | 1.3978 |
| #1 | 8291.8 | 84961. | 8688.3 |
| #2 | 8289.3 | 85411. | 8518.3 |

Sample Name: 280-42158-e-47-b  Acquired: 5/23/2013 16:36:47  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00082** | **.02459** | **-.00019** | **.01000** | **.02565** | **.00010** | **-.00311** | **33.027** | **.00029** | **.00011** |
| Stddev | .00007 | .00002 | .00231 | .00060 | .00032 | .00008 | .00027 | .028 | .00027 | .00010 |
| %RSD | 8.9749 | .08791 | 1237.0 | 5.9573 | 1.2411 | 83.666 | 8.5291 | .08481 | 91.972 | 90.155 |
| #1 | -.00077 | .02457 | .00145 | .01042 | .02542 | .00004 | -.00293 | 33.008 | .00048 | .00004 |
| #2 | -.00087 | .02460 | -.00182 | .00958 | .02587 | .00016 | -.00330 | 33.047 | .00010 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00196** | **.01649** | **1.6632** | **.00366** | **8.4691** | **.00121** | **.00029** | **9.7902** | W **10.462** |
| Stddev | .00002 | .00008 | .00086 | .0136 | .00397 | .0056 | .00006 | .00006 | .0316 | .105 |
| %RSD | 7.7723 | 4.0631 | 5.2113 | .81564 | 108.42 | .06591 | 5.0981 | 22.406 | .32324 | 1.0047 |
| #1 | .00028 | .00191 | .01588 | 1.6537 | .00646 | 8.4652 | .00125 | .00024 | 9.7678 | 10.388 |
| #2 | .00032 | .00202 | .01710 | 1.6728 | .00085 | 8.4731 | .00117 | .00033 | 9.8126 | 10.536 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.21568** | **-.00086** | **8.1230** | **.00053** | **.00004** | **.55553** | **1.1888** | **-.00073** | **.16453** |
| Stddev | .00006 | .00005 | .00007 | .0037 | .00175 | .00351 | .00262 | .0056 | .00065 | .00010 |
| %RSD | 6.2796 | .02261 | 8.2278 | .04501 | 331.00 | 9310.8 | .47156 | .47156 | 89.570 | .06359 |
| #1 | .00098 | .21572 | -.00091 | 8.1256 | .00176 | .00252 | .55738 | 1.1928 | -.00119 | .16460 |
| #2 | .00107 | .21565 | -.00081 | 8.1204 | -.00071 | -.00244 | .55367 | 1.1849 | -.00027 | .16445 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00155** | **-.00043** | **-.00061** | **.03634** | **.00057** | **.00668** | **.00138** |
| Stddev | .00196 | .00038 | .00053 | .01481 | .00012 | .00020 | .00082 |
| %RSD | 126.05 | 86.779 | 85.504 | 40.748 | 21.619 | 2.9636 | 59.383 |
| #1 | -.00294 | -.00017 | -.00099 | .02587 | .00049 | .00654 | .00196 |
| #2 | -.00017 | -.00070 | -.00024 | .04682 | .00066 | .00682 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8400.2** | **86312.** | **8578.4** |
| Stddev | 21.4 | 273. | 78.7 |
| %RSD | .25516 | .31644 | .91755 |
| #1 | 8415.3 | 86119. | 8522.8 |
| #2 | 8385.0 | 86506. | 8634.1 |

Sample Name: 280-42159-c-63-b  Acquired: 5/23/2013 16:39:05  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.00341** | **-.00163** | **.00116** | **.00013** | **.00001** | **-.00127** | **.02992** | **.00031** | **-.00004** |
| Stddev | .00016 | .00003 | .00137 | .00028 | .00037 | .00007 | .00102 | .00044 | .00008 | .00011 |
| %RSD | 36.984 | .99694 | 84.049 | 24.325 | 281.33 | 651.90 | 80.346 | 1.4779 | 26.916 | 290.86 |
| #1 | -.00055 | .00344 | -.00260 | .00135 | .00040 | .00006 | -.00055 | .03023 | .00037 | -.00011 |
| #2 | -.00032 | .00339 | -.00066 | .00096 | -.00013 | -.00004 | -.00199 | .02961 | .00025 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **-.00036** | **.00896** | **.08618** | **.00103** | **.00570** | **.00040** | **-.00001** | **.01366** | **.00024** |
| Stddev | .00003 | .00022 | .00143 | .02426 | .00015 | .00240 | .00002 | .00029 | .02006 | .00021 |
| %RSD | 12.619 | 60.208 | 15.913 | 28.151 | 14.199 | 42.065 | 5.3037 | 2256.8 | 146.90 | 84.949 |
| #1 | .00024 | -.00051 | .00997 | .10334 | .00113 | .00740 | .00042 | -.00022 | .02784 | .00010 |
| #2 | .00020 | -.00021 | .00795 | .06903 | .00092 | .00401 | .00039 | .00019 | -.00053 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18773** | **-.00129** | **.01295** | **-.00010** | **.00231** | **.07299** | **.15620** | **-.00026** | **.00008** | **.00208** |
| Stddev | .00044 | .00005 | .00264 | .00052 | .00550 | .00912 | .01951 | .00073 | .00013 | .00061 |
| %RSD | .23638 | 3.9440 | 20.414 | 532.93 | 237.96 | 12.490 | 12.490 | 279.77 | 150.08 | 29.198 |
| #1 | .18804 | -.00132 | .01108 | .00027 | .00620 | .06654 | .14240 | .00026 | .00017 | .00251 |
| #2 | .18741 | -.00125 | .01482 | -.00046 | -.00158 | .07944 | .16999 | -.00078 | -.00001 | .00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **.00046** | **-.00223** | **-.00007** | **.00323** | **.00076** |
| Stddev | .00013 | .00125 | .03044 | .00001 | .00008 | .00112 |
| %RSD | 18.310 | 268.99 | 1363.1 | 17.861 | 2.5756 | 148.39 |
| #1 | -.00078 | .00135 | .01929 | -.00008 | .00317 | .00155 |
| #2 | -.00060 | -.00042 | -.02376 | -.00007 | .00329 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8547.6** | **88328.** | **8612.9** |
| Stddev | 13.0 | 457. | 69.9 |
| %RSD | .15151 | .51775 | .81135 |
| #1 | 8538.5 | 88651. | 8662.3 |
| #2 | 8556.8 | 88004. | 8563.4 |

Sample Name: 280-42159-c-64-b  Acquired: 5/23/2013 16:41:19  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175463 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00137** | **.00597** | **-.00181** | **.00051** | **.00011** | **.00003** | **.00132** | **.02180** | **.00027** | **-.00004** |
| Stddev | .00041 | .00000 | .00022 | .00018 | .00012 | .00001 | .00079 | .00423 | .00030 | .00003 |
| %RSD | 29.762 | .07819 | 11.949 | 34.906 | 106.76 | 42.334 | 59.762 | 19.385 | 108.56 | 77.150 |
| #1 | -.00108 | .00598 | -.00165 | .00064 | .00003 | .00002 | .00188 | .02479 | .00048 | -.00007 |
| #2 | -.00166 | .00597 | -.00196 | .00039 | .00020 | .00004 | .00076 | .01881 | .00006 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **-.00014** | **.01356** | **.13628** | **.00111** | **.00320** | **.00039** | **.00000** | **.00306** | **-.00003** |
| Stddev | .00013 | .00008 | .00135 | .01105 | .00053 | .00078 | .00005 | .0002 | .00852 | .00008 |
| %RSD | 29.794 | 57.759 | 9.9963 | 8.1048 | 48.237 | 24.211 | 12.770 | 6738.5 | 278.40 | 222.96 |
| #1 | .00034 | -.00020 | .01260 | .12847 | .00073 | .00375 | .00042 | -.00012 | .00909 | .00002 |
| #2 | .00053 | -.00008 | .01451 | .14409 | .00148 | .00265 | .00035 | .00012 | -.00297 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19051** | **-.00030** | **.01434** | **-.00123** | **.00143** | **.05303** | **.11349** | **-.00043** | **.00017** | **.00077** |
| Stddev | .00006 | .00049 | .00106 | .00176 | .00105 | .00534 | .01144 | .00066 | .00005 | .00211 |
| %RSD | .02921 | 167.06 | 7.3825 | 142.85 | 73.747 | 10.076 | 10.076 | 155.37 | 31.200 | 274.61 |
| #1 | .19055 | .00005 | .01360 | .00001 | .00068 | .05681 | .12157 | .00004 | .00013 | -.00072 |
| #2 | .19047 | -.00064 | .01509 | -.00247 | .00217 | .04925 | .10540 | -.00089 | .00021 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.00079** | **.01877** | **.00032** | **.00372** | **.00157** |
| Stddev | .00028 | .00022 | .01615 | .00027 | .00019 | .00147 |
| %RSD | 55.465 | 27.665 | 86.043 | 85.220 | 4.9804 | 93.375 |
| #1 | -.00071 | .00064 | .00735 | .00013 | .00359 | .00261 |
| #2 | -.00031 | .00095 | .03020 | .00052 | .00385 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8549.7** | **87743.** | **8587.9** |
| Stddev | 34.1 | 11. | 42.4 |
| %RSD | .39860 | .01262 | .49362 |
| #1 | 8525.6 | 87751. | 8557.9 |
| #2 | 8573.8 | 87735. | 8617.9 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 16:43:34 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00074** | **49.669** | **.00002** | **.00079** | **.00026** | **-.00002** | **1.0305** | **-.00950** | **.00031** | **.00028** | **.00006** | **-.00050** | **51.165** |
| Stddev | .00017 | .409 | .00105 | .00109 | .00001 | .00002 | .0009 | .00009 | .00024 | .00022 | .00026 | .00046 | .573 |
| %RSD | 22.638 | .82356 | 5013.6 | 137.90 | 3.1130 | 113.86 | .09077 | .90078 | 78.545 | 77.890 | 435.60 | 90.937 | 1.1193 |
| #1 | -.00062 | 49.380 | -.00072 | .00002 | .00025 | .00000 | 1.0298 | -.00944 | .00048 | .00043 | -.00012 | -.00083 | 50.760 |
| #2 | -.00086 | 49.959 | .00076 | .00156 | .00026 | -.00003 | 1.0311 | -.00956 | .00014 | .00012 | .00024 | -.00018 | 51.570 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13221** | **.00359** | **.04073** | **.00015** | **-.00027** | **255.88** | **.00012** | **.00345** | **-.00178** | **4.9241** | **-.00104** | **.00380** | **.00564** |
| Stddev | .09413 | .00069 | .00237 | .00007 | .00008 | 1.11 | .00027 | .00034 | .00032 | .0011 | .00054 | .00174 | .01343 |
| %RSD | 71.198 | 19.124 | 5.8215 | 47.674 | 29.282 | .43291 | 225.30 | 9.9165 | 17.759 | .02165 | 51.930 | 45.664 | 238.09 |
| #1 | .06565 | .00408 | .04241 | .00020 | -.00021 | 255.10 | -.00007 | .00369 | -.00155 | 4.9249 | -.00143 | .00503 | -.00386 |
| #2 | .19877 | .00310 | .03906 | .00010 | -.00033 | 256.67 | .00031 | .00321 | -.00200 | 4.9233 | -.00066 | .00258 | .01514 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01207** | **-.00023** | **.00022** | **4.9231** | **.00187** | **.00157** | **10.400** | **-.00026** | **.00154** | **-.00237** |
| Stddev | .02875 | .00055 | .00002 | .0251 | .00049 | .00091 | .001 | .00003 | .00032 | .00232 |
| %RSD | 238.09 | 236.09 | 8.2377 | .50926 | 26.316 | 58.067 | .00662 | 12.162 | 20.908 | 97.777 |
| #1 | -.00825 | .00015 | .00023 | 4.9054 | .00222 | .00222 | 10.400 | -.00024 | .00132 | -.00401 |
| #2 | .03240 | -.00062 | .00021 | 4.9409 | .00152 | .00093 | 10.401 | -.00029 | .00177 | -.00073 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8279.8** | **82014.** | **8323.3** |
| Stddev | 51.6 | 561. | 46.1 |
| %RSD | .62300 | .68425 | .55368 |
| #1 | 8243.3 | 82411. | 8355.9 |
| #2 | 8316.3 | 81617. | 8290.7 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 16:45:55 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51702** | **.51342** | **1.0126** | **.51338** | **.49815** | **.48425** | **-.00073** | **4.8969** | **.49464** | **.50414** | **.51506** | **.50238** | **2.4308** |
| Stddev | .00213 | .00077 | .0014 | .00074 | .00031 | .00183 | .00392 | .0137 | .00043 | .00027 | .00128 | .00073 | .0188 |
| %RSD | .41172 | .14938 | .13878 | .14332 | .06246 | .37722 | 535.24 | .27969 | .08701 | .05437 | .24865 | .14503 | .77251 |
| #1 | .51852 | .51396 | 1.0116 | .51286 | .49837 | .48554 | -.00350 | 4.9065 | .49434 | .50394 | .51416 | .50187 | 2.4441 |
| #2 | .51551 | .51288 | 1.0136 | .51391 | .49793 | .48296 | .00204 | 4.8872 | .49495 | .50433 | .51597 | .50290 | 2.4176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.810** | **.98100** | **20.056** | **.49585** | **.50991** | **5.0547** | **.51948** | **1.0095** | **.99574** | **.00530** | **1.0080** | **1.0245** | **5.1213** |
| Stddev | .036 | .00243 | .059 | .00073 | .00084 | .0384 | .00016 | .0001 | .00137 | .00236 | .0016 | .0015 | .0312 |
| %RSD | .07477 | .24774 | .29595 | .14725 | .16452 | .75944 | .03001 | .00969 | .13781 | 44.494 | .16150 | .14204 | .61004 |
| #1 | 48.784 | .98272 | 20.097 | .49636 | .50932 | 5.0818 | .51937 | 1.0094 | .99477 | .00364 | 1.0091 | 1.0235 | 5.0992 |
| #2 | 48.836 | .97928 | 20.014 | .49533 | .51050 | 5.0275 | .51959 | 1.0096 | .99671 | .00697 | 1.0068 | 1.0256 | 5.1433 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.959** | **1.0216** | **.49472** | **.00330** | **.49911** | **1.0174** | **-.01426** | **.48749** | **.50463** | **.49774** |
| Stddev | .067 | .0003 | .00062 | .00304 | .00010 | .0002 | .00772 | .00287 | .00112 | .00180 |
| %RSD | .61004 | .03361 | .12571 | 92.066 | .02033 | .01865 | 54.117 | .58802 | .22116 | .36176 |
| #1 | 10.912 | 1.0218 | .49516 | .00545 | .49918 | 1.0175 | -.01972 | .48952 | .50542 | .49901 |
| #2 | 11.007 | 1.0214 | .49428 | .00115 | .49904 | 1.0172 | -.00880 | .48546 | .50384 | .49646 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8458.3** | **86126.** | **8634.8** |
| Stddev | .7 | 279. | 9.2 |
| %RSD | .00869 | .32441 | .10697 |
| #1 | 8458.8 | 85928. | 8641.3 |
| #2 | 8457.8 | 86323. | 8628.2 |

Sample Name: CCB Acquired: 5/23/2013 16:48:03 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **-.00008** | **-.00153** | **.00060** | **.00000** | **-.00002** | **.00136** | **-.00039** | **.00013** | **.00015** | **.00015** | **-.00030** |
| Stddev | .00054 | .00019 | .00153 | .00024 | .0001 | .00008 | .00114 | .00537 | .00009 | .00019 | .00011 | .00036 |
| %RSD | 107.75 | 244.17 | 100.23 | 39.243 | 4936.6 | 354.81 | 83.314 | 1394.5 | 70.281 | 124.01 | 72.640 | 120.46 |
| #1 | -.00012 | -.00021 | -.00045 | .00077 | -.00010 | -.00007 | .00056 | .00341 | .00007 | .00029 | .00007 | -.00055 |
| #2 | -.00089 | .00006 | -.00261 | .00044 | .00009 | .00003 | .00217 | -.00418 | .00020 | .00002 | .00022 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.01744** | **.00082** | **.00207** | **.00001** | **.00035** | **.04496** | **.00019** | **.00059** | **-.00074** | **.00624** | W **.00321** |
| Stddev | .00151 | .03232 | .00054 | .00031 | .00007 | .00031 | .00175 | .00034 | .00062 | .00071 | .00117 | .00123 |
| %RSD | 583.28 | 185.36 | 65.662 | 14.787 | 1276.6 | 87.914 | 3.8979 | 177.72 | 105.87 | 94.988 | 18.807 | 38.306 |
| #1 | -.00081 | -.00542 | .00044 | .00186 | -.00004 | .00013 | .04620 | -.00005 | .00103 | -.00024 | .00707 | .00408 |
| #2 | .00133 | .04029 | .00120 | .00229 | .00005 | .00057 | .04373 | .00043 | .00015 | -.00124 | .00541 | .00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00291** | **.02511** | **.05375** | **-.00027** | **-.00004** | **.00128** | **-.00034** | **.00034** | **.00398** | **-.00007** | **.00270** | **.00002** |
| Stddev | .00159 | .00852 | .01824 | .00016 | .00003 | .00082 | .00008 | .00034 | .00768 | .00027 | .00010 | .00007 |
| %RSD | 54.749 | 33.935 | 33.935 | 57.637 | 74.632 | 64.354 | 22.165 | 100.59 | 193.20 | 370.11 | 3.8099 | 390.69 |
| #1 | .00403 | .01909 | .04085 | -.00016 | -.00005 | .00070 | -.00039 | .00010 | .00941 | -.00026 | .00278 | .00006 |
| #2 | .00178 | .03114 | .06664 | -.00039 | -.00002 | .00187 | -.00029 | .00058 | -.00146 | .00012 | .00263 | -.00003 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8440.9** | **86336.** | **8439.7** |
| Stddev | .5 | 57. | 47.6 |
| %RSD | .00639 | .06556 | .56439 |
| #1 | 8441.3 | 86296. | 8473.4 |
| #2 | 8440.5 | 86376. | 8406.0 |

Sample Name: CCVL-2067279 Acquired: 5/23/2013 16:50:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01009** | **.10695** | **.01350** | **.10572** | **.01017** | **.00098** | **.11929** | **.20271** | **.00510** | **.01044** | **.01065** | **.01542** | **.09757** | **3.0336** |
| Stddev | .00020 | .00014 | .00188 | .00070 | .00033 | .00006 | .00393 | .00498 | .00003 | .00023 | .00020 | .00020 | .00056 | .0916 |
| %RSD | 2.0163 | .12682 | 13.938 | .66167 | 3.2043 | 5.9615 | 3.2942 | 2.4567 | .55437 | 2.1927 | 1.8688 | 1.3021 | .56980 | 3.0206 |
| #1 | .01023 | .10685 | .01217 | .10523 | .00994 | .00102 | .12207 | .19919 | .00512 | .01028 | .01079 | .01556 | .09718 | 2.9688 |
| #2 | .00994 | .10704 | .01483 | .10622 | .01040 | .00094 | .11651 | .20624 | .00508 | .01060 | .01051 | .01528 | .09797 | 3.0984 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01179** | **.21268** | **.01025** | **.02083** | **1.0468** | **.04316** | **3.0234** | **.00757** | **.00472** | **.01229** | **.01824** | **.53948** | **1.1545** | **.10629** |
| Stddev | .00203 | .00166 | .00004 | .00059 | .0070 | .00003 | .0061 | .00009 | .00077 | .00092 | .00340 | .01780 | .0381 | .00101 |
| %RSD | 17.190 | .77932 | .43852 | 2.8255 | .66446 | .06429 | .20178 | 1.2499 | 16.392 | 7.4529 | 18.667 | 3.2996 | 3.2996 | .95387 |
| #1 | .01036 | .21151 | .01022 | .02125 | 1.0517 | .04318 | 3.0277 | .00750 | .00417 | .01164 | .02064 | .52689 | 1.1276 | .10557 |
| #2 | .01322 | .21386 | .01028 | .02042 | 1.0419 | .04315 | 3.0190 | .00763 | .00527 | .01293 | .01583 | .55207 | 1.1814 | .10700 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01007** | **.01501** | **.00977** | **.01652** | **.06612** | **.00941** | **.02261** | **.01705** |
| Stddev | .00001 | .00046 | .00000 | .00047 | .01353 | .00086 | .00057 | .00028 |
| %RSD | .08188 | 3.0800 | .04505 | 2.8434 | 20.466 | 9.1845 | 2.5259 | 1.6472 |
| #1 | .01007 | .01468 | .00977 | .01685 | .05655 | .00880 | .02221 | .01686 |
| #2 | .01008 | .01533 | .00978 | .01619 | .07569 | .01002 | .02302 | .01725 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8577.9** | **88222.** | **8616.3** |
| Stddev | 26.1 | 208. | 45.7 |
| %RSD | .30459 | .23541 | .52999 |
| #1 | 8596.3 | 88369. | 8648.6 |
| #2 | 8559.4 | 88075. | 8584.0 |

Sample Name: BLANK SAR WATER  Acquired: 5/23/2013 16:52:34  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00123** | **-.00017** | **.00082** | **-.00015** | **.00009** | **.00001** | **.00015** | **.00255** | **.00000** | **-.00002** |
| Stddev | .00086 | .00001 | .00030 | .00019 | .00037 | .00000 | .00347 | .00180 | .00024 | .00026 |
| %RSD | 69.795 | 5.2389 | 37.153 | 122.32 | 390.39 | 34.572 | 2244.0 | 70.643 | 7565.8 | 1071.3 |
| #1 | -.00062 | -.00016 | .00060 | -.00002 | .00036 | .00001 | -.00230 | .00382 | -.00017 | .00016 |
| #2 | -.00183 | -.00018 | .00103 | -.00029 | -.00017 | .00001 | .00261 | .00127 | .00017 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **-.00059** | **.00023** | **.04287** | **.00201** | **.00218** | **-.00006** | **-.00012** | **-.01054** | **.00042** |
| Stddev | .00017 | .00067 | .00058 | .06556 | .00005 | .00075 | .00001 | .00019 | .00171 | .00032 |
| %RSD | 198.77 | 114.46 | 258.03 | 152.92 | 2.5879 | 34.280 | 24.867 | 154.28 | 16.239 | 75.940 |
| #1 | .00021 | -.00106 | .00064 | .08923 | .00197 | .00270 | -.00005 | -.00025 | -.00933 | .00065 |
| #2 | -.00003 | -.00011 | -.00019 | -.00349 | .00205 | .00165 | -.00007 | .00001 | -.01175 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **-.00121** | **.00450** | **-.00224** | **.00321** | **.02176** | **.04658** | **-.00076** | **-.00004** | **.00137** |
| Stddev | .00069 | .00019 | .00354 | .00291 | .00119 | .00389 | .00833 | .00032 | .00000 | .00012 |
| %RSD | 89.059 | 15.862 | 78.745 | 130.26 | 37.161 | 17.888 | 17.888 | 42.667 | 5.4234 | 8.5164 |
| #1 | .00125 | -.00107 | .00200 | -.00018 | .00405 | .02452 | .05247 | -.00053 | -.00004 | .00145 |
| #2 | .00029 | -.00135 | .00701 | -.00429 | .00237 | .01901 | .04069 | -.00099 | -.00004 | .00128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.00082** | **.02730** | **.00013** | **.00218** | **-.00205** |
| Stddev | .00064 | .00050 | .02867 | .00059 | .00011 | .00086 |
| %RSD | 185.26 | 61.197 | 105.02 | 446.75 | 4.8634 | 41.918 |
| #1 | -.00079 | .00118 | .00702 | .00055 | .00211 | -.00266 |
| #2 | .00011 | .00047 | .04757 | -.00028 | .00226 | -.00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8488.1** | **86733.** | **8440.2** |
| Stddev | 83.8 | 219. | 37.8 |
| %RSD | .98728 | .25238 | .44777 |
| #1 | 8428.9 | 86888. | 8413.5 |
| #2 | 8547.4 | 86579. | 8467.0 |

Sample Name: 42478-1 Acquired: 5/23/2013 16:54:48 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **.00012** | **-.00208** | **.04508** | **.00939** | **-.00002** | **.00269** | **12.870** | **-.00010** | **-.00025** |
| Stddev | .00044 | .00004 | .00072 | .00019 | .00057 | .00007 | .00037 | .001 | .00007 | .00008 |
| %RSD | 40.961 | 36.791 | 34.557 | .43229 | 6.0646 | 416.77 | 13.802 | .01000 | 66.704 | 33.381 |
| #1 | -.00140 | .00009 | -.00157 | .04494 | .00899 | -.00006 | .00295 | 12.871 | -.00014 | -.00031 |
| #2 | -.00077 | .00015 | -.00259 | .04522 | .00980 | .00003 | .00243 | 12.869 | -.00005 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00126** | **.35435** | **2.9747** | **.05826** | **2.8798** | **.03465** | **.00037** | W **552.07** | **-.00008** |
| Stddev | .00002 | .00021 | .00160 | .0770 | .00278 | .0043 | .00009 | .00023 | .35 | .00004 |
| %RSD | 10.004 | 16.444 | .45062 | 2.5880 | 4.7758 | .15018 | .26599 | 62.070 | .06299 | 51.794 |
| #1 | .00018 | .00141 | .35322 | 2.9203 | .05630 | 2.8829 | .03472 | .00053 | 551.83 | -.00005 |
| #2 | .00016 | .00111 | .35547 | 3.0291 | .06023 | 2.8768 | .03459 | .00021 | 552.32 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02368** | **-.00099** | F **260.34** | **-.00014** | **-.00219** | **4.4498** | **9.5225** | **-.00010** | **.44187** | **-.00194** |
| Stddev | .00111 | .00164 | .17 | .00051 | .00573 | .0420 | .0899 | .00001 | .00020 | .00007 |
| %RSD | 4.6699 | 165.41 | .06448 | 362.77 | 261.58 | .94435 | .94435 | 6.0186 | .04417 | 3.7224 |
| #1 | .02447 | .00017 | 260.46 | -.00050 | .00186 | 4.4201 | 9.4590 | -.00010 | .44174 | -.00189 |
| #2 | .02290 | -.00215 | 260.22 | .00022 | -.00624 | 4.4795 | 9.5861 | -.00010 | .44201 | -.00199 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00043** | **.00105** | **.03885** | **.00003** | **.00364** | **.00247** |
| Stddev | .00012 | .00029 | .04570 | .00000 | .00049 | .00078 |
| %RSD | 27.005 | 27.874 | 117.61 | 11.702 | 13.420 | 31.513 |
| #1 | -.00035 | .00125 | .00654 | .00003 | .00329 | .00192 |
| #2 | -.00052 | .00084 | .07117 | .00003 | .00398 | .00303 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8208.8** | **80925.** | **8643.2** |
| Stddev | 7.2 | 160. | 21.8 |
| %RSD | .08806 | .19775 | .25170 |
| #1 | 8213.9 | 81038. | 8658.6 |
| #2 | 8203.7 | 80812. | 8627.8 |

Sample Name: 42516-1 Acquired: 5/23/2013 16:57:10 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00146** | **.00029** | **.00152** | **.02966** | **.08743** | **-.00001** | **.00312** | **28.707** | **.00018** | **.00242** |
| Stddev | .00025 | .00007 | .00147 | .00081 | .00056 | .00006 | .00114 | .216 | .00016 | .00020 |
| %RSD | 16.838 | 25.139 | 96.837 | 2.7237 | .63956 | 507.27 | 36.487 | .75378 | 89.579 | 8.3672 |
| #1 | -.00129 | .00034 | .00257 | .02909 | .08704 | .00003 | .00393 | 28.554 | .00007 | .00256 |
| #2 | -.00164 | .00024 | .00048 | .03023 | .08783 | -.00005 | .00232 | 28.860 | .00029 | .00228 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00096** | **.00396** | **6.6594** | **.11127** | **15.600** | **.10513** | **.00499** | W **543.41** | **.00345** |
| Stddev | .00007 | .00005 | .00008 | .0678 | .00104 | .012 | .00016 | .00001 | 3.77 | .00026 |
| %RSD | 25.044 | 4.8592 | 1.9775 | 1.0189 | .93635 | .07490 | .15299 | .29747 | .69328 | 7.4055 |
| #1 | .00022 | .00099 | .00402 | 6.6114 | .11054 | 15.608 | .10524 | .00500 | 540.74 | .00327 |
| #2 | .00032 | .00093 | .00391 | 6.7074 | .11201 | 15.592 | .10502 | .00498 | 546.07 | .00363 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01497** | **-.00035** | **29.830** | **-.00155** | **.00123** | **3.4872** | **7.4627** | **.00021** | **2.8746** | **-.00343** |
| Stddev | .00064 | .00038 | .047 | .00161 | .00305 | .0069 | .0148 | .00073 | .0197 | .00072 |
| %RSD | 4.2768 | 107.54 | .15859 | 103.53 | 248.44 | .19814 | .19814 | 345.98 | .68427 | 21.120 |
| #1 | .01542 | -.00062 | 29.797 | -.00042 | -.00093 | 3.4823 | 7.4522 | .00073 | 2.8607 | -.00394 |
| #2 | .01452 | -.00008 | 29.864 | -.00269 | .00338 | 3.4921 | 7.4731 | -.00031 | 2.8885 | -.00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.00069** | **.03163** | **.00121** | **.00854** | **.00174** |
| Stddev | .00030 | .00116 | .04821 | .00010 | .00004 | .00170 |
| %RSD | 97.365 | 168.06 | 152.44 | 7.8739 | .51695 | 97.583 |
| #1 | -.00010 | .00151 | .06572 | .00128 | .00850 | .00294 |
| #2 | -.00052 | -.00013 | -.00246 | .00114 | .00857 | .00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8011.4** | **79964.** | **8493.6** |
| Stddev | 16.0 | 50. | 117.5 |
| %RSD | .19958 | .06241 | 1.3837 |
| #1 | 8022.7 | 79999. | 8576.7 |
| #2 | 8000.1 | 79928. | 8410.5 |

Sample Name: 42516-2 Acquired: 5/23/2013 16:59:32 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00139** | **.00141** | **-.00182** | **.01444** | **.08017** | **.00006** | **.00094** | **45.055** | **.00028** | **.00023** |
| Stddev | .00029 | .00015 | .00106 | .00007 | .00022 | .00010 | .00371 | .177 | .00001 | .00006 |
| %RSD | 21.102 | 10.641 | 58.008 | .49440 | .27218 | 151.27 | 396.43 | .39191 | 2.5181 | 26.422 |
| #1 | -.00118 | .00152 | -.00107 | .01439 | .08002 | .00000 | .00356 | 44.930 | .00027 | .00027 |
| #2 | -.00160 | .00131 | -.00257 | .01449 | .08033 | .00013 | -.00169 | 45.180 | .00028 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00033** | **.00111** | **1.3216** | **.00458** | **10.842** | **.00078** | **.00054** | **23.492** | **.00053** |
| Stddev | .00011 | .00030 | .00116 | .0219 | .00267 | .020 | .00001 | .00024 | .270 | .00017 |
| %RSD | 29.053 | 89.812 | 104.25 | 1.6595 | 58.309 | .18044 | 1.1741 | 45.269 | 1.1507 | 31.573 |
| #1 | .00029 | .00012 | .00029 | 1.3061 | .00647 | 10.856 | .00077 | .00037 | 23.301 | .00042 |
| #2 | .00044 | .00054 | .00193 | 1.3371 | .00269 | 10.829 | .00079 | .00071 | 23.683 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00407** | **-.00104** | **22.150** | **-.00104** | **.00277** | **6.0421** | **12.930** | **-.00056** | **.54553** | **-.00084** |
| Stddev | .00001 | .00046 | .010 | .00251 | .00109 | .0548 | .117 | .00015 | .00166 | .00149 |
| %RSD | .20305 | 43.907 | .04299 | 240.74 | 39.268 | .90673 | .90673 | 27.307 | .30342 | 177.58 |
| #1 | .00407 | -.00072 | 22.143 | .00073 | .00200 | 6.0033 | 12.847 | -.00045 | .54436 | -.00190 |
| #2 | .00406 | -.00136 | 22.157 | -.00282 | .00354 | 6.0808 | 13.013 | -.00066 | .54670 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **.00221** | **.00145** | **.00043** | **.00497** | **.00287** |
| Stddev | .00016 | .00082 | .01905 | .00030 | .00002 | .00105 |
| %RSD | 58.198 | 37.264 | 1310.7 | 70.308 | .32140 | 36.685 |
| #1 | -.00016 | .00279 | .01492 | .00022 | .00498 | .00213 |
| #2 | -.00039 | .00163 | -.01201 | .00065 | .00496 | .00362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8552.9** | **86383.** | **8718.3** |
| Stddev | 5.0 | 75. | 103.0 |
| %RSD | .05854 | .08737 | 1.1810 |
| #1 | 8556.4 | 86330. | 8791.1 |
| #2 | 8549.3 | 86436. | 8645.5 |

Sample Name: 42516-3 Acquired: 5/23/2013 17:01:48 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00116** | **.00080** | **-.00049** | **.01465** | **.08054** | **.00003** | **.00196** | **45.658** | **.00040** | **.00025** |
| Stddev | .00010 | .00010 | .00089 | .00010 | .00079 | .00005 | .00093 | .385 | .00008 | .00015 |
| %RSD | 8.2642 | 12.918 | 181.10 | .65892 | .98508 | 163.40 | 47.181 | .84411 | 20.940 | 62.088 |
| #1 | -.00123 | .00073 | .00014 | .01472 | .07998 | .00000 | .00261 | 45.385 | .00045 | .00036 |
| #2 | -.00110 | .00087 | -.00111 | .01458 | .08110 | .00006 | .00131 | 45.930 | .00034 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00058** | **.00265** | **1.2806** | **.00699** | **11.010** | **.00072** | **.00058** | **23.051** | **.00022** |
| Stddev | .00014 | .00025 | .00021 | .0628 | .00216 | .027 | .00001 | .00014 | .244 | .00005 |
| %RSD | 41.148 | 43.329 | 7.7642 | 4.9031 | 30.957 | .24302 | 1.6474 | 23.803 | 1.0588 | 24.302 |
| #1 | .00024 | .00040 | .00280 | 1.3250 | .00852 | 10.991 | .00071 | .00048 | 22.878 | .00018 |
| #2 | .00043 | .00075 | .00251 | 1.2362 | .00546 | 11.028 | .00073 | .00067 | 23.223 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00436** | **-.00189** | **21.707** | **-.00308** | **.00045** | **6.0585** | **12.965** | **-.00019** | **.55427** | **-.00205** |
| Stddev | .00049 | .00005 | .004 | .00092 | .00176 | .0411 | .088 | .00030 | .00438 | .00181 |
| %RSD | 11.228 | 2.7362 | .01835 | 29.801 | 391.54 | .67864 | .67864 | 158.99 | .79102 | 88.386 |
| #1 | .00401 | -.00193 | 21.710 | -.00373 | .00169 | 6.0294 | 12.903 | .00002 | .55117 | -.00077 |
| #2 | .00470 | -.00186 | 21.705 | -.00243 | -.00079 | 6.0875 | 13.027 | -.00039 | .55737 | -.00334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.00194** | **.03248** | **.00011** | **.00507** | **.00156** |
| Stddev | .00021 | .00029 | .02104 | .00035 | .00050 | .00102 |
| %RSD | 93.086 | 15.005 | 64.787 | 311.68 | 9.8984 | 65.802 |
| #1 | -.00038 | .00214 | .01760 | -.00014 | .00542 | .00083 |
| #2 | -.00008 | .00173 | .04736 | .00036 | .00471 | .00228 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8467.2** | **85991.** | **8787.9** |
| Stddev | 1.2 | 166. | 78.0 |
| %RSD | .01411 | .19349 | .88786 |
| #1 | 8466.3 | 86109. | 8843.0 |
| #2 | 8468.0 | 85873. | 8732.7 |

Sample Name: 42516-4 Acquired: 5/23/2013 17:04:05 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00093** | **.00217** | **.00002** | **.01013** | **.76052** | **-.00002** | **.00183** | **47.376** | **-.00002** | **.00017** |
| Stddev | .00036 | .00009 | .00042 | .00018 | .00424 | .00003 | .00357 | .198 | .00000 | .00008 |
| %RSD | 38.967 | 4.1819 | 2080.5 | 1.8110 | .55779 | 153.68 | 195.66 | .41707 | 23.670 | 45.931 |
| #1 | -.00118 | .00210 | .00032 | .01000 | .75752 | -.00005 | .00435 | 47.237 | -.00002 | .00011 |
| #2 | -.00067 | .00223 | -.00028 | .01025 | .76352 | .00000 | -.00070 | 47.516 | -.00002 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00063** | **.01971** | **2.6183** | **.00686** | **9.5231** | **.09204** | **.00100** | **23.030** | **.00053** |
| Stddev | .00006 | .00029 | .00140 | .0839 | .00179 | .0022 | .00017 | .00005 | .405 | .00014 |
| %RSD | 10.563 | 46.105 | 7.1181 | 3.2029 | 26.120 | .02343 | .18011 | 4.8870 | 1.7576 | 26.279 |
| #1 | .00054 | .00083 | .02070 | 2.5590 | .00813 | 9.5215 | .09192 | .00103 | 23.317 | .00043 |
| #2 | .00063 | .00042 | .01871 | 2.6776 | .00559 | 9.5246 | .09215 | .00096 | 22.744 | .00063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00797** | **-.00093** | **5.7139** | **-.00053** | **.00125** | **5.5081** | **11.787** | **-.00037** | **1.5327** | **-.00208** |
| Stddev | .00065 | .00095 | .0043 | .00161 | .00225 | .0184 | .039 | .00014 | .0087 | .00123 |
| %RSD | 8.1746 | 101.55 | .07611 | 304.07 | 179.06 | .33329 | .33329 | 38.018 | .56877 | 59.118 |
| #1 | .00843 | -.00160 | 5.7169 | -.00167 | -.00033 | 5.4951 | 11.760 | -.00046 | 1.5265 | -.00121 |
| #2 | .00751 | -.00026 | 5.7108 | .00061 | .00284 | 5.5211 | 11.815 | -.00027 | 1.5388 | -.00294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00227** | **.00750** | **.00080** | **.01080** | **.00124** |
| Stddev | .00007 | .00053 | .01483 | .00069 | .00007 | .00001 |
| %RSD | 221.19 | 23.453 | 197.80 | 85.458 | .62899 | 1.0403 |
| #1 | -.00002 | .00189 | -.00299 | .00032 | .01075 | .00125 |
| #2 | .00008 | .00264 | .01798 | .00129 | .01085 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8339.3** | **84709.** | **8493.3** |
| Stddev | 41.6 | 170. | 60.6 |
| %RSD | .49841 | .20031 | .71356 |
| #1 | 8368.6 | 84589. | 8536.2 |
| #2 | 8309.9 | 84829. | 8450.5 |

Sample Name: 42516-5 Acquired: 5/23/2013 17:06:22 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00110** | **.01903** | **-.00002** | **.01542** | **.09233** | **.00009** | **.00155** | **48.217** | **.00019** | **.00013** |
| Stddev | .00001 | .00013 | .00186 | .00043 | .00050 | .00004 | .00154 | .189 | .00007 | .00022 |
| %RSD | .47013 | .70379 | 8769.4 | 2.7616 | .54416 | 46.054 | 99.061 | .39223 | 38.250 | 164.55 |
| #1 | -.00110 | .01894 | .00129 | .01511 | .09198 | .00012 | .00264 | 48.083 | .00014 | -.00002 |
| #2 | -.00109 | .01913 | -.00134 | .01572 | .09269 | .00006 | .00046 | 48.351 | .00024 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00026** | **.00817** | **1.4533** | **.00726** | **11.949** | **.00083** | **.00067** | **38.332** | **.00037** |
| Stddev | .00019 | .00015 | .00072 | .0318 | .00174 | .002 | .00002 | .00010 | .011 | .00009 |
| %RSD | 69.554 | 58.725 | 8.7729 | 2.1893 | 23.991 | .01559 | 2.0271 | 15.013 | .02802 | 25.318 |
| #1 | .00041 | .00037 | .00767 | 1.4308 | .00603 | 11.950 | .00084 | .00060 | 38.324 | .00044 |
| #2 | .00014 | .00015 | .00868 | 1.4758 | .00849 | 11.948 | .00082 | .00074 | 38.340 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00503** | **-.00100** | **29.254** | **-.00036** | **.00550** | **5.9556** | **12.745** | **-.00044** | **.47056** | **.00035** |
| Stddev | .00014 | .00117 | .111 | .00169 | .00294 | .0068 | .015 | .00027 | .00236 | .00001 |
| %RSD | 2.7155 | 117.66 | .37964 | 462.87 | 53.558 | .11398 | .11398 | 61.311 | .50098 | 3.2370 |
| #1 | .00513 | -.00017 | 29.175 | .00083 | .00341 | 5.9604 | 12.755 | -.00062 | .46889 | .00035 |
| #2 | .00493 | -.00183 | 29.332 | -.00156 | .00758 | 5.9508 | 12.735 | -.00025 | .47222 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.00095** | **-.00885** | **.00084** | **.00401** | **.00018** |
| Stddev | .00002 | .00048 | .03040 | .00091 | .00050 | .00182 |
| %RSD | 4.5461 | 50.764 | 343.47 | 109.41 | 12.508 | 1005.5 |
| #1 | .00056 | .00061 | -.03035 | .00019 | .00365 | .00147 |
| #2 | .00053 | .00129 | .01265 | .00148 | .00436 | -.00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8268.2** | **83498.** | **8438.6** |
| Stddev | 20.1 | 282. | 45.0 |
| %RSD | .24297 | .33800 | .53321 |
| #1 | 8254.0 | 83697. | 8470.4 |
| #2 | 8282.4 | 83298. | 8406.8 |

Sample Name: 42516-5SD@5 Acquired: 5/23/2013 17:08:40 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00133** | **.00538** | **.00031** | **.00210** | **.01875** | **.00000** | **.00001** | **9.6531** | **.00012** | **.00007** |
| Stddev | .00053 | .00008 | .00159 | .00011 | .00029 | .00004 | .00157 | .0481 | .00006 | .00000 |
| %RSD | 39.381 | 1.4173 | 506.05 | 5.0043 | 1.5424 | 1273.9 | 12107. | .49796 | 48.446 | 3.0911 |
| #1 | -.00171 | .00543 | -.00081 | .00217 | .01854 | .00003 | -.00110 | 9.6191 | .00008 | .00007 |
| #2 | -.00096 | .00533 | .00144 | .00203 | .01895 | -.00003 | .00113 | 9.6871 | .00016 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **-.00015** | **.02535** | **.37556** | **.00546** | **2.4191** | **.00037** | **.00016** | **7.4057** | **.00015** |
| Stddev | .00017 | .00011 | .00120 | .02583 | .00019 | .0101 | .00002 | .00003 | .0429 | .00026 |
| %RSD | 184.35 | 69.046 | 4.7410 | 6.8784 | 3.4177 | .41954 | 4.0369 | 17.646 | .57914 | 174.29 |
| #1 | .00021 | -.00008 | .02620 | .35730 | .00559 | 2.4262 | .00038 | .00014 | 7.3754 | -.00003 |
| #2 | -.00003 | -.00023 | .02450 | .39383 | .00533 | 2.4119 | .00036 | .00018 | 7.4360 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00181** | **-.00211** | **5.5725** | **.00137** | **.00236** | **1.2001** | **2.5683** | **-.00020** | **.09560** | **.00105** |
| Stddev | .00070 | .00143 | .0105 | .00008 | .00513 | .0243 | .0521 | .00002 | .00045 | .00053 |
| %RSD | 38.576 | 67.390 | .18850 | 5.7745 | 217.72 | 2.0279 | 2.0279 | 9.1144 | .47068 | 50.557 |
| #1 | .00230 | -.00312 | 5.5800 | .00142 | -.00127 | 1.1829 | 2.5315 | -.00021 | .09528 | .00067 |
| #2 | .00131 | -.00111 | 5.5651 | .00131 | .00598 | 1.2174 | 2.6051 | -.00019 | .09592 | .00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **.00081** | **.01669** | **.00033** | **.00463** | **.00149** |
| Stddev | .00003 | .00110 | .00792 | .00059 | .00017 | .00186 |
| %RSD | 15.897 | 136.35 | 47.464 | 178.57 | 3.7405 | 124.49 |
| #1 | -.00018 | .00003 | .01109 | -.00009 | .00451 | .00018 |
| #2 | -.00023 | .00159 | .02229 | .00074 | .00475 | .00280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8312.7** | **84471.** | **8381.2** |
| Stddev | 2.6 | 142. | 49.7 |
| %RSD | .03136 | .16789 | .59302 |
| #1 | 8314.5 | 84370. | 8416.4 |
| #2 | 8310.8 | 84571. | 8346.1 |

Sample Name: 42516-6 Acquired: 5/23/2013 17:10:58 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: SAR WATER

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00135** | **.00522** | **.00029** | **.02752** | **.00044** | **-.00001** | **.00456** | **.07608** | **.00005** | **.00018** |
| Stddev | .00013 | .00015 | .00043 | .00014 | .00017 | .00003 | .00192 | .00022 | .00006 | .00016 |
| %RSD | 9.9374 | 2.8659 | 149.01 | .51389 | 38.643 | 560.16 | 42.149 | .28865 | 128.22 | 86.971 |
| #1 | -.00144 | .00512 | .00059 | .02742 | .00032 | .00002 | .00592 | .07592 | .00000 | .00029 |
| #2 | -.00125 | .00533 | -.00002 | .02762 | .00056 | -.00003 | .00320 | .07623 | .00009 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00319** | **.00315** | **-.00030** | **.13218** | **.00181** | **.00594** | **.00249** | **-.00001** | **.09837** | **.00151** |
| Stddev | .00003 | .00018 | .00067 | .11261 | .00160 | .00013 | .00001 | .00028 | .00785 | .00046 |
| %RSD | .84374 | 5.6628 | 220.32 | 85.193 | 88.475 | 2.1349 | .47787 | 2639.9 | 7.9753 | 30.505 |
| #1 | .00321 | .00328 | .00017 | .05256 | .00294 | .00603 | .00248 | -.00021 | .09283 | .00118 |
| #2 | .00317 | .00302 | -.00077 | .21181 | .00068 | .00585 | .00250 | .00019 | .10392 | .00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **-.00128** | **.03100** | **-.00083** | **.00148** | **.01843** | **.03944** | **-.00069** | **.00028** | **-.00036** |
| Stddev | .00057 | .00055 | .00116 | .00100 | .00212 | .00973 | .02081 | .00003 | .00001 | .00047 |
| %RSD | 141.60 | 43.295 | 3.7403 | 120.35 | 143.56 | 52.768 | 52.768 | 4.9276 | 5.2057 | 130.64 |
| #1 | .00000 | -.00089 | .03018 | -.00153 | .00298 | .01155 | .02472 | -.00066 | .00027 | -.00003 |
| #2 | .00081 | -.00167 | .03182 | -.00012 | -.00002 | .02531 | .05416 | -.00071 | .00029 | -.00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **.00145** | **.02369** | **.00033** | **.01045** | **-.00037** |
| Stddev | .00024 | .00063 | .03171 | .00030 | .00009 | .00003 |
| %RSD | 996.12 | 43.452 | 133.88 | 92.464 | .83312 | 7.2436 |
| #1 | .00014 | .00101 | .04611 | .00011 | .01051 | -.00039 |
| #2 | -.00019 | .00190 | .00126 | .00054 | .01039 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8507.2** | **86988.** | **8470.2** |
| Stddev | 1.1 | 176. | 50.2 |
| %RSD | .01310 | .20241 | .59235 |
| #1 | 8508.0 | 86863. | 8505.7 |
| #2 | 8506.4 | 87112. | 8434.8 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 17:13:12 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00136** | **49.963** | **.00161** | **-.00001** | **.00025** | **.00000** | **1.0460** | **-.00739** | **.00060** | **.00009** | **.00007** | **-.00065** |
| Stddev | .00021 | .014 | .00256 | .00002 | .00021 | .0000 | .0013 | .00244 | .00006 | .00011 | .00007 | .00006 |
| %RSD | 15.424 | .02842 | 159.07 | 207.98 | 84.394 | 844.06 | .12315 | 32.999 | 10.206 | 124.92 | 107.95 | 8.9740 |
| #1 | -.00150 | 49.953 | -.00020 | .00001 | .00040 | .00001 | 1.0451 | -.00566 | .00055 | .00017 | .00012 | -.00069 |
| #2 | -.00121 | 49.973 | .00342 | -.00003 | .00010 | -.00001 | 1.0469 | -.00911 | .00064 | .00001 | .00002 | -.00060 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.503** | **.07019** | **.00339** | **.03978** | **-.00003** | **-.00041** | **257.83** | **.00050** | **.00406** | **-.00272** | **4.9620** | **-.00133** |
| Stddev | .342 | .04718 | .00545 | .00132 | .00012 | .00009 | .11 | .00028 | .00118 | .00025 | .0026 | .00190 |
| %RSD | .66454 | 67.210 | 160.74 | 3.3294 | 442.29 | 22.653 | .04119 | 56.154 | 29.084 | 9.3235 | .05188 | 142.71 |
| #1 | 51.261 | .03683 | .00725 | .03884 | -.00011 | -.00048 | 257.91 | .00030 | .00323 | -.00290 | 4.9602 | .00001 |
| #2 | 51.745 | .10355 | -.00046 | .04071 | .00006 | -.00035 | 257.75 | .00070 | .00490 | -.00254 | 4.9638 | -.00268 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00390** | **.00693** | **.01483** | **.00002** | **.00020** | **4.9946** | **.00198** | **.00204** | W **10.520** | **-.00017** | **.00117** | **-.00496** |
| Stddev | .00577 | .01190 | .02546 | .00017 | .00010 | .0089 | .00034 | .00069 | .058 | .00003 | .00015 | .00341 |
| %RSD | 147.79 | 171.69 | 171.69 | 1106.1 | 50.250 | .17872 | 17.261 | 34.060 | .54932 | 17.732 | 12.485 | 68.744 |
| #1 | -.00018 | .01534 | .03283 | .00014 | .00027 | 4.9883 | .00174 | .00155 | 10.479 | -.00015 | .00128 | -.00738 |
| #2 | .00798 | -.00148 | -.00317 | -.00011 | .00013 | 5.0009 | .00222 | .00253 | 10.561 | -.00020 | .00107 | -.00255 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8071.1** | **80589.** | **8292.3** |
| Stddev | 11.8 | 127. | 33.7 |
| %RSD | .14658 | .15787 | .40594 |
| #1 | 8079.5 | 80679. | 8268.5 |
| #2 | 8062.7 | 80499. | 8316.1 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 17:15:34 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52424** | **.51518** | **1.0166** | **.51519** | **.49924** | **.48578** | **.00018** | **4.8519** | **.49558** | **.50438** | **.51622** | **.50486** | **2.4266** | **48.588** |
| Stddev | .00008 | .00092 | .0036 | .00037 | .00006 | .00144 | .00140 | .0143 | .00010 | .00012 | .00004 | .00044 | .0001 | .044 |
| %RSD | .01587 | .17882 | .35656 | .07195 | .01161 | .29723 | 779.93 | .29441 | .01919 | .02332 | .00680 | .08632 | .00371 | .09013 |
| #1 | .52418 | .51583 | 1.0141 | .51493 | .49928 | .48476 | .00117 | 4.8620 | .49552 | .50430 | .51619 | .50455 | 2.4266 | 48.557 |
| #2 | .52430 | .51453 | 1.0192 | .51546 | .49920 | .48680 | -.00081 | 4.8418 | .49565 | .50447 | .51624 | .50517 | 2.4267 | 48.619 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97961** | **20.300** | **.49911** | **.51135** | **5.0887** | **.52023** | **1.0115** | **.99330** | **.01210** | **1.0125** | **1.0318** | **5.1064** | **10.928** | **1.0236** |
| Stddev | .00199 | .049 | .00035 | .00049 | .0046 | .00150 | .0013 | .00192 | .00092 | .0006 | .0015 | .0131 | .028 | .0020 |
| %RSD | .20292 | .24173 | .07082 | .09567 | .09144 | .28765 | .12632 | .19347 | 7.5883 | .06054 | .14955 | .25577 | .25577 | .19362 |
| #1 | .97820 | 20.334 | .49936 | .51100 | 5.0920 | .51917 | 1.0106 | .99194 | .01145 | 1.0129 | 1.0307 | 5.1156 | 10.947 | 1.0222 |
| #2 | .98102 | 20.265 | .49886 | .51169 | 5.0854 | .52128 | 1.0124 | .99466 | .01274 | 1.0121 | 1.0329 | 5.0971 | 10.908 | 1.0250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49466** | **.00130** | **.50168** | **1.0207** | **.02910** | **.49186** | **.51137** | **.49292** |
| Stddev | .00015 | .00037 | .00058 | .0027 | .01728 | .00016 | .00009 | .00109 |
| %RSD | .02967 | 28.768 | .11635 | .26639 | 59.385 | .03270 | .01685 | .22190 |
| #1 | .49456 | .00103 | .50127 | 1.0226 | .04132 | .49197 | .51131 | .49369 |
| #2 | .49477 | .00156 | .50209 | 1.0188 | .01688 | .49175 | .51143 | .49214 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8331.9** | **84074.** | **8445.8** |
| Stddev | 36.2 | 611. | 68.9 |
| %RSD | .43479 | .72711 | .81580 |
| #1 | 8357.5 | 83642. | 8494.5 |
| #2 | 8306.3 | 84506. | 8397.0 |

Sample Name: CCB Acquired: 5/23/2013 17:17:41 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00111** | **-.00010** | **-.00065** | **.00026** | **.00018** | **-.00006** | **-.00177** | **-.00140** | **.00019** | **.00000** | **.00004** |
| Stddev | .00000 | .00012 | .00180 | .00006 | .00043 | .00001 | .00200 | .00066 | .00001 | .0002 | .00006 |
| %RSD | .20191 | 118.36 | 276.05 | 21.870 | 243.69 | 19.015 | 113.20 | 46.939 | 3.8637 | 4565.1 | 145.31 |
| #1 | -.00111 | -.00019 | .00062 | .00029 | .00048 | -.00006 | -.00319 | -.00094 | .00018 | .00012 | .00000 |
| #2 | -.00111 | -.00002 | -.00192 | .00022 | -.00013 | -.00005 | -.00035 | -.00187 | .00019 | -.00013 | .00009 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00042** | **.14392** | **.00015** | **.00152** | **.00000** | **.00047** | **.04166** | **.00064** | **.00001** | **.00074** |
| Stddev | .00046 | .00162 | .06856 | .00210 | .00050 | .0000 | .00007 | .00900 | .00001 | .00069 | .00019 |
| %RSD | 841.41 | 383.21 | 47.639 | 1431.0 | 32.682 | 4720.0 | 14.147 | 21.606 | 1.3036 | 8029.1 | 26.337 |
| #1 | .00027 | .00156 | .19240 | .00163 | .00117 | .00002 | .00042 | .04803 | .00064 | .00050 | .00060 |
| #2 | -.00038 | -.00072 | .09544 | -.00134 | .00187 | -.00002 | .00051 | .03530 | .00065 | -.00048 | .00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01149** | W **.00357** | **.00130** | **-.00164** | **-.00352** | **-.00029** | **.00013** | **.00091** | W **-.00064** | **.00028** | **.02831** |
| Stddev | .00060 | .00066 | .00335 | .00964 | .02064 | .00020 | .00009 | .00153 | .00000 | .00013 | .02712 |
| %RSD | 5.2507 | 18.606 | 258.32 | 586.53 | 586.53 | 69.054 | 69.330 | 167.82 | .43291 | 48.443 | 95.778 |
| #1 | .01192 | .00404 | .00367 | -.00846 | -.01811 | -.00043 | .00019 | -.00017 | -.00064 | .00037 | .00914 |
| #2 | .01106 | .00310 | -.00107 | .00518 | .01107 | -.00015 | .00006 | .00199 | -.00064 | .00018 | .04748 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | .00060 | | |
| Low Limit | | -.00314 | | | | | | | -.00060 | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00009** | **.00213** | **.00055** |
| Stddev | .00020 | .00012 | .00172 |
| %RSD | 223.29 | 5.4231 | 310.19 |
| #1 | .00023 | .00221 | -.00066 |
| #2 | -.00005 | .00205 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8360.4** | **85995.** | **8447.4** |
| Stddev | 21.9 | 536. | 16.3 |
| %RSD | .26137 | .62374 | .19251 |
| #1 | 8375.9 | 85616. | 8435.9 |
| #2 | 8345.0 | 86374. | 8458.9 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 17:19:56 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01008** | **.10689** | **.01476** | **.10523** | **.01018** | **.00105** | **.11735** | **.20179** | **.00515** | **.01052** | **.01067** | **.01527** | **.10002** |
| Stddev | .00001 | .00001 | .00143 | .00066 | .00048 | .00001 | .00084 | .00163 | .00012 | .00012 | .00004 | .00001 | .00263 |
| %RSD | .12524 | .00572 | 9.6670 | .62449 | 4.6873 | .57562 | .71211 | .80600 | 2.3354 | 1.1080 | .38148 | .08684 | 2.6268 |
| #1 | .01008 | .10690 | .01375 | .10476 | .00984 | .00105 | .11794 | .20294 | .00523 | .01044 | .01064 | .01528 | .09817 |
| #2 | .01009 | .10689 | .01576 | .10569 | .01052 | .00104 | .11676 | .20064 | .00506 | .01060 | .01070 | .01526 | .10188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0859** | **.01042** | **.21447** | **.01020** | **.02095** | **1.0720** | **.04344** | **3.0275** | **.00755** | **.00832** | **.01066** | **.01722** | **.53514** |
| Stddev | .0255 | .00069 | .00179 | .00003 | .00009 | .0081 | .00042 | .0042 | .00101 | .00021 | .00026 | .00197 | .02001 |
| %RSD | .82518 | 6.6298 | .83346 | .25783 | .44895 | .75266 | .95943 | .13974 | 13.435 | 2.4785 | 2.4794 | 11.417 | 3.7401 |
| #1 | 3.1039 | .01091 | .21320 | .01018 | .02088 | 1.0777 | .04374 | 3.0305 | .00827 | .00818 | .01084 | .01583 | .52099 |
| #2 | 3.0679 | .00993 | .21573 | .01022 | .02102 | 1.0663 | .04315 | 3.0245 | .00683 | .00847 | .01047 | .01861 | .54929 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1452** | **.10634** | **.01012** | **.01630** | **.00960** | **.01596** | F **.07958** | **.00971** | **.02305** | **.01560** |
| Stddev | .0428 | .00096 | .00028 | .00083 | .00036 | .00028 | .01465 | .00022 | .00044 | .00085 |
| %RSD | 3.7401 | .90427 | 2.7594 | 5.1200 | 3.7744 | 1.7600 | 18.415 | 2.2494 | 1.8962 | 5.4683 |
| #1 | 1.1149 | .10566 | .00992 | .01571 | .00985 | .01576 | .06922 | .00956 | .02336 | .01500 |
| #2 | 1.1755 | .10702 | .01031 | .01689 | .00934 | .01616 | .08994 | .00987 | .02275 | .01621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8597.5** | **87862.** | **8559.4** |
| Stddev | 8.7 | 872. | 1.7 |
| %RSD | .10092 | .99299 | .02017 |
| #1 | 8603.7 | 87245. | 8560.6 |
| #2 | 8591.4 | 88479. | 8558.1 |

Sample Name: mb 280-174449/1-a  Acquired: 5/23/2013 17:22:13  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00097** | **.01014** | **-.00099** | **.01943** | **-.00007** | **.00003** | **-.00245** | **.02561** | **.00021** | **-.00006** |
| Stddev | .00063 | .00022 | .00237 | .00031 | .00019 | .00004 | .00013 | .00384 | .00004 | .00010 |
| %RSD | 64.577 | 2.1876 | 238.21 | 1.6028 | 276.05 | 135.73 | 5.2290 | 15.008 | 19.396 | 155.00 |
| #1 | -.00053 | .00998 | .00068 | .01965 | -.00020 | .00006 | -.00236 | .02833 | .00018 | .00001 |
| #2 | -.00142 | .01030 | -.00267 | .01921 | .00006 | .00000 | -.00254 | .02289 | .00023 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **-.00046** | **.00458** | **.09044** | **.00069** | **.00714** | **.00036** | **.00006** | **.11448** | **.00004** |
| Stddev | .00003 | .00007 | .00064 | .02690 | .00050 | .00164 | .00000 | .00001 | .00386 | .00033 |
| %RSD | 15.157 | 16.074 | 14.025 | 29.740 | 72.514 | 22.928 | .16868 | 22.308 | 3.3738 | 899.22 |
| #1 | .00025 | -.00052 | .00504 | .07142 | .00105 | .00598 | .00036 | .00005 | .11175 | -.00020 |
| #2 | .00020 | -.00041 | .00413 | .10946 | .00034 | .00830 | .00036 | .00007 | .11721 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03755** | **-.00218** | **.02451** | **-.00038** | **.00411** | **.13524** | **.28942** | **.01021** | **.00015** | **.00142** |
| Stddev | .00138 | .00007 | .00030 | .00091 | .00324 | .00648 | .01387 | .00045 | .00001 | .00264 |
| %RSD | 3.6714 | 3.0953 | 1.2108 | 240.06 | 78.867 | 4.7925 | 4.7925 | 4.3667 | 4.4423 | 185.57 |
| #1 | .03657 | -.00213 | .02430 | .00027 | .00182 | .13066 | .27961 | .01052 | .00015 | .00329 |
| #2 | .03852 | -.00223 | .02472 | -.00103 | .00640 | .13982 | .29922 | .00989 | .00014 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **-.00075** | **.00331** | **-.00024** | **.00308** | **-.00062** |
| Stddev | .00037 | .00076 | .05388 | .00056 | .00001 | .00191 |
| %RSD | 109.42 | 101.21 | 1629.6 | 235.27 | .29497 | 307.93 |
| #1 | -.00061 | -.00129 | -.03479 | -.00064 | .00309 | .00073 |
| #2 | -.00008 | -.00021 | .04141 | .00016 | .00308 | -.00197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8614.6** | **88553.** | **8735.6** |
| Stddev | 5.8 | 71. | 108.7 |
| %RSD | .06759 | .08028 | 1.2446 |
| #1 | 8618.7 | 88503. | 8658.7 |
| #2 | 8610.5 | 88603. | 8812.5 |

Sample Name: lcs 280-174449/2-a Acquired: 5/23/2013 17:24:27 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05028** | **1.9634** | **1.0036** | F **1.1458** | **1.9892** | **.04868** | **2.1599** | **48.407** | **.09888** | **.48696** |
| Stddev | .00006 | .0086 | .0031 | .0062 | .0095 | .00025 | .0090 | .180 | .00019 | .00198 |
| %RSD | .11478 | .44078 | .30889 | .53831 | .47684 | .51038 | .41819 | .37184 | .19652 | .40670 |
| #1 | .05024 | 1.9573 | 1.0014 | 1.1415 | 1.9825 | .04851 | 2.1535 | 48.280 | .09874 | .48556 |
| #2 | .05032 | 1.9695 | 1.0058 | 1.1502 | 1.9959 | .04886 | 2.1663 | 48.535 | .09902 | .48836 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | | |
| Low Limit | | | | .81000 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20303** | **.24853** | **.96043** | **48.607** | **.96995** | **48.889** | **.48599** | **1.0294** | **51.717** | **.50049** |
| Stddev | .00029 | .00036 | .00691 | .312 | .00025 | .167 | .00106 | .0031 | .429 | .00229 |
| %RSD | .14464 | .14558 | .71978 | .64251 | .02536 | .34182 | .21715 | .30217 | .83046 | .45661 |
| #1 | .20282 | .24827 | .95554 | 48.386 | .96978 | 49.007 | .48674 | 1.0272 | 51.414 | .49887 |
| #2 | .20323 | .24878 | .96532 | 48.828 | .97012 | 48.770 | .48525 | 1.0316 | 52.021 | .50210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.152** | **.48305** | **.01728** | **.51289** | **2.0164** | **2.7073** | **5.7937** | **2.0121** | **.98740** | **.99150** |
| Stddev | .036 | .00279 | .00234 | .00020 | .0101 | .0388 | .0830 | .0101 | .00481 | .00364 |
| %RSD | .35525 | .57740 | 13.536 | .03924 | .49844 | 1.4332 | 1.4332 | .50309 | .48714 | .36669 |
| #1 | 10.126 | .48108 | .01562 | .51303 | 2.0093 | 2.6799 | 5.7350 | 2.0050 | .98400 | .99407 |
| #2 | 10.177 | .48502 | .01893 | .51275 | 2.0235 | 2.7348 | 5.8524 | 2.0193 | .99080 | .98893 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0130** | **1.9257** | **2.1998** | **.49063** | **.49565** | **.50113** |
| Stddev | .0001 | .0111 | .0163 | .00061 | .00040 | .00244 |
| %RSD | .01284 | .57771 | .74181 | .12531 | .08035 | .48749 |
| #1 | 1.0131 | 1.9178 | 2.1883 | .49107 | .49537 | .49940 |
| #2 | 1.0129 | 1.9336 | 2.2113 | .49020 | .49593 | .50286 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8252.4** | **83567.** | **8576.4** |
| Stddev | 31.7 | 211. | 40.5 |
| %RSD | .38458 | .25201 | .47201 |
| #1 | 8274.9 | 83418. | 8605.0 |
| #2 | 8230.0 | 83716. | 8547.7 |

Sample Name: 280-42032-a-1-b  Acquired: 5/23/2013 17:26:34  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00174** | **166.09** | **.05846** | **.08532** | **1.4569** | **.00931** | **.00138** | F **1007.8** | **.01141** | **.04899** |
| Stddev | .00008 | .49 | .00006 | .00084 | .0031 | .00017 | .00011 | 5.8 | .00011 | .00011 |
| %RSD | 4.5545 | .29593 | .09593 | .98350 | .21352 | 1.7904 | 8.3031 | .57343 | .97099 | .23047 |
| #1 | -.00169 | 166.44 | .05842 | .08591 | 1.4591 | .00943 | .00146 | 1011.9 | .01148 | .04907 |
| #2 | -.00180 | 165.74 | .05850 | .08472 | 1.4547 | .00919 | .00130 | 1003.7 | .01133 | .04891 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16760** | **.23750** | **212.71** | **37.416** | **.13520** | **68.892** | **4.8665** | **.01422** | **1.8336** | **.12182** |
| Stddev | .00018 | .00252 | .74 | .091 | .00192 | .214 | .0351 | .00001 | .0068 | .00003 |
| %RSD | .10784 | 1.0622 | .34886 | .24242 | 1.4232 | .30991 | .72095 | .03925 | .37192 | .02755 |
| #1 | .16773 | .23929 | 213.24 | 37.480 | .13384 | 69.043 | 4.8913 | .01421 | 1.8384 | .12185 |
| #2 | .16748 | .23572 | 212.19 | 37.352 | .13656 | 68.741 | 4.8417 | .01422 | 1.8287 | .12180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.2468** | **.28708** | **3.5412** | **.00157** | **.01073** | **3.0350** | **6.4949** | **.02571** | **2.3371** | **.08960** |
| Stddev | .0034 | .00049 | .0024 | .00408 | .00598 | .0491 | .1051 | .00007 | .0074 | .00007 |
| %RSD | .04703 | .17159 | .06784 | 259.29 | 55.703 | 1.6175 | 1.6175 | .29074 | .31793 | .07986 |
| #1 | 7.2444 | .28673 | 3.5395 | .00446 | .00650 | 3.0697 | 6.5691 | .02566 | 2.3423 | .08955 |
| #2 | 7.2492 | .28743 | 3.5429 | -.00131 | .01495 | 3.0003 | 6.4206 | .02577 | 2.3318 | .08965 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.7755** | **-.00313** | F **-.35765** | **.31318** | **.86676** | **.13848** |
| Stddev | .0128 | .00058 | .01022 | .00160 | .00205 | .00046 |
| %RSD | .26794 | 18.448 | 2.8587 | .51248 | .23658 | .33353 |
| #1 | 4.7845 | -.00272 | -.35042 | .31431 | .86821 | .13815 |
| #2 | 4.7664 | -.00354 | -.36488 | .31204 | .86531 | .13881 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9279.6** | **90343.** | **10406.** |
| Stddev | 10.1 | 150. | 31. |
| %RSD | .10911 | .16628 | .29929 |
| #1 | 9286.7 | 90237. | 10384. |
| #2 | 9272.4 | 90449. | 10428. |

Sample Name: 280-42032-a-2-b  Acquired: 5/23/2013 17:29:37  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00197** | **151.48** | **.05113** | **.08110** | **1.3125** | **.00860** | **.00034** | F **1011.9** | **.01012** | **.04452** |
| Stddev | .00008 | .35 | .00031 | .00010 | .0016 | .00005 | .00044 | 6.7 | .00004 | .00020 |
| %RSD | 4.1108 | .23174 | .61101 | .11821 | .12260 | .55335 | 130.44 | .66115 | .36965 | .44665 |
| #1 | -.00191 | 151.23 | .05135 | .08116 | 1.3114 | .00864 | .00066 | 1007.2 | .01009 | .04466 |
| #2 | -.00203 | 151.73 | .05091 | .08103 | 1.3136 | .00857 | .00003 | 1016.7 | .01014 | .04438 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16014** | **.20976** | **199.86** | **35.372** | **.12546** | **62.969** | **4.6141** | **.01428** | **1.7219** | **.11279** |
| Stddev | .00087 | .00219 | .20 | .168 | .00171 | .368 | .0405 | .00021 | .0008 | .00013 |
| %RSD | .54414 | 1.0450 | .09903 | .47541 | 1.3607 | .58378 | .87763 | 1.4941 | .04683 | .11609 |
| #1 | .16076 | .20821 | 199.72 | 35.253 | .12425 | 62.709 | 4.5854 | .01413 | 1.7214 | .11288 |
| #2 | .15953 | .21131 | 200.00 | 35.491 | .12667 | 63.229 | 4.6427 | .01443 | 1.7225 | .11269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.8794** | **.25612** | **3.3572** | **-.00177** | **.00203** | **2.7788** | **5.9467** | **.02467** | **2.3118** | **.08691** |
| Stddev | .0235 | .00007 | .0063 | .00142 | .00195 | .0377 | .0807 | .00013 | .0034 | .00202 |
| %RSD | .34111 | .02588 | .18888 | 80.265 | 96.209 | 1.3568 | 1.3568 | .50857 | .14901 | 2.3278 |
| #1 | 6.8960 | .25617 | 3.3617 | -.00278 | .00065 | 2.8055 | 6.0037 | .02476 | 2.3094 | .08548 |
| #2 | 6.8628 | .25607 | 3.3527 | -.00077 | .00341 | 2.7522 | 5.8896 | .02458 | 2.3143 | .08834 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.6509** | **-.00415** | F **-.36487** | **.30796** | **.81903** | **.13979** |
| Stddev | .0282 | .00051 | .02972 | .00050 | .00676 | .00099 |
| %RSD | .60599 | 12.174 | 8.1463 | .16154 | .82542 | .70614 |
| #1 | 4.6310 | -.00380 | -.34385 | .30761 | .81425 | .13910 |
| #2 | 4.6708 | -.00451 | -.38588 | .30831 | .82381 | .14049 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9105.0** | **89107.** | **10153.** |
| Stddev | 41.4 | 366. | 27. |
| %RSD | .45471 | .41121 | .26407 |
| #1 | 9075.7 | 89366. | 10171. |
| #2 | 9134.3 | 88848. | 10134. |

Sample Name: 280-42032-a-3-b  Acquired: 5/23/2013 17:32:39  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00172** | **127.07** | **.05520** | **.05870** | **1.3161** | **.00785** | **-.00982** | F **1241.1** | **.00825** | **.04519** |
| Stddev | .00026 | 1.56 | .00146 | .00027 | .0137 | .00021 | .00031 | 20.7 | .00013 | .00014 |
| %RSD | 15.243 | 1.2257 | 2.6479 | .45293 | 1.0399 | 2.6569 | 3.1636 | 1.6708 | 1.6016 | .31906 |
| #1 | -.00153 | 125.97 | .05623 | .05851 | 1.3064 | .00770 | -.01004 | 1226.4 | .00816 | .04509 |
| #2 | -.00190 | 128.17 | .05417 | .05889 | 1.3258 | .00800 | -.00960 | 1255.7 | .00834 | .04529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13736** | **.16172** | **183.61** | **29.509** | **.11571** | **57.648** | **4.0865** | **.01225** | **1.4301** | **.10494** |
| Stddev | .00035 | .00049 | 1.69 | .242 | .00022 | .031 | .0146 | .00003 | .0153 | .00035 |
| %RSD | .25710 | .30234 | .91982 | .82168 | .19063 | .05309 | .35824 | .25562 | 1.0691 | .33119 |
| #1 | .13761 | .16206 | 182.41 | 29.337 | .11587 | 57.626 | 4.0762 | .01223 | 1.4192 | .10518 |
| #2 | .13711 | .16137 | 184.80 | 29.680 | .11556 | 57.669 | 4.0969 | .01228 | 1.4409 | .10469 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.1966** | **.18692** | **3.1352** | **-.00142** | **.00754** | **2.1398** | **4.5792** | **.02061** | **2.7865** | **.08631** |
| Stddev | .0111 | .00058 | .0072 | .00126 | .00359 | .0509 | .1090 | .00119 | .0262 | .00220 |
| %RSD | .17967 | .31216 | .22794 | 88.560 | 47.643 | 2.3792 | 2.3792 | 5.7867 | .93857 | 2.5481 |
| #1 | 6.2044 | .18651 | 3.1301 | -.00053 | .00500 | 2.1038 | 4.5022 | .01976 | 2.7680 | .08787 |
| #2 | 6.1887 | .18733 | 3.1402 | -.00231 | .01008 | 2.1758 | 4.6563 | .02145 | 2.8050 | .08476 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4618** | **-.00376** | F **-.37432** | **.29222** | **.71308** | **.12822** |
| Stddev | .0032 | .00108 | .05550 | .00010 | .00154 | .00359 |
| %RSD | .09366 | 28.597 | 14.827 | .03309 | .21652 | 2.7973 |
| #1 | 3.4641 | -.00300 | -.41357 | .29215 | .71417 | .12568 |
| #2 | 3.4595 | -.00452 | -.33508 | .29228 | .71199 | .13075 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8892.6** | **85649.** | **9942.8** |
| Stddev | 18.1 | 104. | 68.0 |
| %RSD | .20310 | .12135 | .68357 |
| #1 | 8879.9 | 85576. | 9990.9 |
| #2 | 8905.4 | 85723. | 9894.8 |

Sample Name: 280-42032-a-4-d  Acquired: 5/23/2013 17:35:41  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00251** | **156.04** | **.05811** | **.07292** | **1.3582** | **.00908** | **-.00602** | F **1204.6** | **.00867** | **.05014** |
| Stddev | .00009 | .28 | .00012 | .00025 | .0007 | .00000 | .00250 | 7.4 | .00001 | .00003 |
| %RSD | 3.3999 | .18207 | .20313 | .34658 | .05284 | .03353 | 41.495 | .61075 | .11717 | .06216 |
| #1 | -.00245 | 156.24 | .05819 | .07309 | 1.3587 | .00908 | -.00779 | 1209.9 | .00868 | .05016 |
| #2 | -.00257 | 155.84 | .05803 | .07274 | 1.3577 | .00908 | -.00426 | 1199.4 | .00866 | .05012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16853** | **.18081** | **212.80** | **36.069** | **.13430** | **65.177** | **4.5409** | **.01516** | **1.6483** | **.12321** |
| Stddev | .00010 | .00018 | .40 | .020 | .00363 | .149 | .0438 | .00003 | .0094 | .00023 |
| %RSD | .05985 | .09837 | .18805 | .05486 | 2.6996 | .22934 | .96517 | .18580 | .56698 | .18468 |
| #1 | .16860 | .18069 | 212.52 | 36.083 | .13173 | 65.282 | 4.5719 | .01514 | 1.6549 | .12337 |
| #2 | .16846 | .18094 | 213.09 | 36.055 | .13686 | 65.071 | 4.5099 | .01518 | 1.6416 | .12305 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.4652** | **.20724** | **2.8291** | **-.00093** | **.00460** | **3.4835** | **7.4547** | **.02458** | **2.6013** | **.09189** |
| Stddev | .0086 | .00108 | .0006 | .00102 | .00170 | .1092 | .2337 | .00019 | .0021 | .00218 |
| %RSD | .11501 | .52098 | .01938 | 110.47 | 37.072 | 3.1342 | 3.1342 | .78371 | .07980 | 2.3737 |
| #1 | 7.4713 | .20648 | 2.8295 | -.00165 | .00580 | 3.5607 | 7.6199 | .02444 | 2.6028 | .09034 |
| #2 | 7.4591 | .20801 | 2.8287 | -.00020 | .00339 | 3.4063 | 7.2895 | .02471 | 2.5998 | .09343 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.7902** | **-.00515** | F **-.36190** | **.33129** | **.78898** | **.16857** |
| Stddev | .0012 | .00117 | .00625 | .00033 | .00376 | .00080 |
| %RSD | .02420 | 22.767 | 1.7273 | .09953 | .47650 | .47168 |
| #1 | 4.7894 | -.00598 | -.35748 | .33106 | .79164 | .16800 |
| #2 | 4.7911 | -.00432 | -.36632 | .33152 | .78633 | .16913 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9113.8** | **87922.** | **10100.** |
| Stddev | 23.9 | 365. | 27. |
| %RSD | .26253 | .41497 | .26563 |
| #1 | 9096.9 | 87664. | 10081. |
| #2 | 9130.7 | 88180. | 10119. |

Sample Name: 280-42032-a-4-dSD@5 Acquired: 5/23/2013 17:38:43 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00203** | **36.521** | **.01477** | **.01725** | **.32096** | **.00211** | **-.00448** | **303.59** | **.00215** | **.01261** |
| Stddev | .00061 | .021 | .00061 | .00077 | .00063 | .00000 | .00304 | 4.39 | .00015 | .00007 |
| %RSD | 29.800 | .05705 | 4.1308 | 4.4911 | .19704 | .02234 | 68.008 | 1.4466 | 6.9891 | .56386 |
| #1 | -.00160 | 36.536 | .01520 | .01780 | .32052 | .00211 | -.00232 | 306.70 | .00226 | .01266 |
| #2 | -.00246 | 36.507 | .01434 | .01671 | .32141 | .00211 | -.00663 | 300.49 | .00205 | .01256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04061** | **.04258** | **52.510** | **8.3575** | **.03103** | **15.726** | **1.0903** | **.00375** | **.38597** | **.03054** |
| Stddev | .00005 | .00022 | .029 | .0277 | .00101 | .055 | .0030 | .00013 | .00679 | .00074 |
| %RSD | .13155 | .51947 | .05462 | .33152 | 3.2691 | .34933 | .27357 | 3.4365 | 1.7592 | 2.4341 |
| #1 | .04057 | .04242 | 52.531 | 8.3379 | .03031 | 15.765 | 1.0924 | .00366 | .39077 | .03002 |
| #2 | .04065 | .04273 | 52.490 | 8.3770 | .03175 | 15.687 | 1.0882 | .00384 | .38117 | .03107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7438** | **.05246** | **.62839** | **-.00088** | **-.00079** | **.84781** | **1.8143** | **.00510** | **.61420** | **.02059** |
| Stddev | .0033 | .00139 | .00215 | .00131 | .00450 | .01793 | .0384 | .00032 | .00087 | .00003 |
| %RSD | .19073 | 2.6406 | .34228 | 149.60 | 573.15 | 2.1150 | 2.1150 | 6.2003 | .14204 | .13801 |
| #1 | 1.7414 | .05148 | .62687 | .00005 | -.00397 | .83513 | 1.7872 | .00533 | .61482 | .02057 |
| #2 | 1.7461 | .05344 | .62991 | -.00180 | .00240 | .86048 | 1.8414 | .00488 | .61359 | .02061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0941** | **.00090** | W **-.06950** | **.07751** | **.19229** | **.04087** |
| Stddev | .0008 | .00074 | .01590 | .00047 | .00083 | .00002 |
| %RSD | .06944 | 82.105 | 22.879 | .60406 | .43208 | .04056 |
| #1 | 1.0946 | .00143 | -.05826 | .07784 | .19288 | .04086 |
| #2 | 1.0935 | .00038 | -.08074 | .07718 | .19170 | .04088 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8503.1** | **84333.** | **8812.5** |
| Stddev | 24.0 | 133. | 56.4 |
| %RSD | .28259 | .15769 | .63994 |
| #1 | 8486.2 | 84427. | 8772.6 |
| #2 | 8520.1 | 84239. | 8852.3 |

Sample Name: 280-42032-a-4-e ms  Acquired: 5/23/2013 17:41:02  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .04364 | 197.43 | .87269 | .88110 | 2.9589 | .04836 | F 1.7445 | F 1165.5 | .09086 | .41885 |
| Stddev | .00018 | .64 | .00184 | .00124 | .0042 | .00006 | .0051 | 5.3 | .00002 | .00025 |
| %RSD | .42339 | .32349 | .21122 | .14088 | .14318 | .12433 | .29284 | .45723 | .01961 | .05953 |
| #1 | .04351 | 196.98 | .87139 | .88198 | 2.9559 | .04832 | 1.7409 | 1161.8 | .09085 | .41903 |
| #2 | .04378 | 197.88 | .87399 | .88023 | 2.9619 | .04840 | 1.7481 | 1169.3 | .09087 | .41868 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | 1000.0 | | |
| Low Limit | | | | | | | -.10000 | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .35400 | .38361 | 200.65 | 85.345 | .95492 | 104.55 | 4.5812 | .78135 | 45.063 | .49532 |
| Stddev | .00075 | .00018 | .05 | .409 | .00042 | .48 | .0267 | .00302 | .429 | .00143 |
| %RSD | .21079 | .04600 | .02515 | .47877 | .04365 | .45970 | .58303 | .38701 | .95295 | .28851 |
| #1 | .35453 | .38348 | 200.61 | 85.056 | .95522 | 104.89 | 4.6001 | .78349 | 44.759 | .49633 |
| #2 | .35347 | .38373 | 200.68 | 85.634 | .95463 | 104.21 | 4.5623 | .77921 | 45.366 | .49431 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 15.273 | .54533 | 2.6734 | .17542 | 1.5989 | 6.0231 | 12.889 | 1.4371 | 3.2876 | .90353 |
| Stddev | .026 | .00147 | .0052 | .00085 | .0038 | .0188 | .040 | .0029 | .0103 | .00814 |
| %RSD | .16956 | .26904 | .19559 | .48589 | .23800 | .31170 | .31170 | .19989 | .31343 | .90129 |
| #1 | 15.292 | .54429 | 2.6771 | .17482 | 1.5962 | 6.0363 | 12.918 | 1.4391 | 3.2804 | .90929 |
| #2 | 15.255 | .54636 | 2.6697 | .17603 | 1.6016 | 6.0098 | 12.861 | 1.4350 | 3.2949 | .89778 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.2290 | 1.3450 | 1.4452 | .76736 | 1.1114 | .59352 |
| Stddev | .0170 | .0007 | .0126 | .00253 | .0074 | .00524 |
| %RSD | .23442 | .04878 | .86859 | .32998 | .66291 | .88254 |
| #1 | 7.2410 | 1.3455 | 1.4363 | .76915 | 1.1166 | .58982 |
| #2 | 7.2170 | 1.3445 | 1.4541 | .76557 | 1.1062 | .59722 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 9011.1 | 88123. | 10214. |
| Stddev | 26.8 | 327. | 12. |
| %RSD | .29692 | .37086 | .11297 |
| #1 | 8992.2 | 87891. | 10222. |
| #2 | 9030.1 | 88354. | 10206. |

Sample Name: 280-42032-a-4-f msd  Acquired: 5/23/2013 17:44:01  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04300** | **196.49** | **.86991** | **.87095** | **3.0183** | **.04801** | F **1.7320** | F **1222.0** | **.09096** | **.41500** |
| Stddev | .00056 | .17 | .00733 | .00245 | .0005 | .00006 | .0039 | 33.7 | .00041 | .00118 |
| %RSD | 1.3050 | .08620 | .84222 | .28088 | .01777 | .11517 | .22456 | 2.7554 | .45364 | .28417 |
| #1 | .04260 | 196.61 | .87509 | .87268 | 3.0186 | .04797 | 1.7347 | 1245.9 | .09125 | .41584 |
| #2 | .04339 | 196.37 | .86473 | .86922 | 3.0179 | .04805 | 1.7292 | 1198.2 | .09067 | .41417 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | 1000.0 | | |
| Low Limit | | | | | | | -.10000 | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34896** | **.38434** | **197.21** | **85.135** | **.95050** | **103.95** | **5.0043** | **.77615** | **44.782** | **.49220** |
| Stddev | .00010 | .00492 | .04 | .199 | .00046 | .80 | .0070 | .00145 | .204 | .00124 |
| %RSD | .02783 | 1.2791 | .01952 | .23336 | .04887 | .77184 | .13922 | .18684 | .45648 | .25284 |
| #1 | .34903 | .38086 | 197.18 | 84.995 | .95017 | 104.52 | 5.0092 | .77717 | 44.637 | .49308 |
| #2 | .34889 | .38782 | 197.23 | 85.276 | .95083 | 103.39 | 4.9994 | .77512 | 44.927 | .49132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **15.320** | **.54997** | **2.7224** | **.17842** | **1.5772** | **4.6440** | **9.9381** | **1.4255** | **3.3688** | **.90086** |
| Stddev | .005 | .00181 | .0072 | .00199 | .0041 | .0405 | .0867 | .0045 | .0034 | .00371 |
| %RSD | .03485 | .32834 | .26256 | 1.1132 | .25792 | .87289 | .87289 | .31795 | .10027 | .41179 |
| #1 | 15.323 | .55125 | 2.7274 | .17982 | 1.5743 | 4.6153 | 9.8768 | 1.4287 | 3.3664 | .89823 |
| #2 | 15.316 | .54870 | 2.7173 | .17701 | 1.5801 | 4.6726 | 9.9995 | 1.4223 | 3.3712 | .90348 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.7007** | **1.3382** | **1.4041** | **.75733** | **1.0958** | **.59076** |
| Stddev | .0435 | .0032 | .0328 | .00268 | .0044 | .00085 |
| %RSD | .65000 | .23725 | 2.3376 | .35432 | .40061 | .14396 |
| #1 | 6.6699 | 1.3404 | 1.3809 | .75543 | 1.0927 | .59016 |
| #2 | 6.7315 | 1.3360 | 1.4274 | .75922 | 1.0989 | .59136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9035.0** | **88304.** | **10173.** |
| Stddev | 17.1 | 355. | 75. |
| %RSD | .18897 | .40227 | .74081 |
| #1 | 9022.9 | 88053. | 10119. |
| #2 | 9047.0 | 88555. | 10226. |

Sample Name: 280-42032-a-4-dPDS  Acquired: 5/23/2013 17:47:02  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04437** | **151.37** | **.22697** | **.15236** | **1.3934** | **.04828** | **-.00620** | F **1184.9** | **.05103** | **.08685** |
| Stddev | .00063 | .22 | .00024 | .00015 | .0029 | .00020 | .00014 | 5.6 | .00009 | .00008 |
| %RSD | 1.4244 | .14741 | .10482 | .10067 | .21042 | .41822 | 2.2907 | .47450 | .18458 | .09129 |
| #1 | .04392 | 151.22 | .22680 | .15225 | 1.3913 | .04813 | -.00610 | 1188.9 | .05110 | .08679 |
| #2 | .04481 | 151.53 | .22714 | .15246 | 1.3955 | .04842 | -.00630 | 1180.9 | .05097 | .08690 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20295** | **.21906** | **203.80** | **51.879** | **.20984** | **76.780** | **4.4147** | **.05575** | **20.076** | **.15657** |
| Stddev | .00062 | .00006 | .42 | .025 | .00105 | .188 | .0242 | .00016 | .236 | .00018 |
| %RSD | .30521 | .02892 | .20382 | .04849 | .49891 | .24464 | .54810 | .28178 | 1.1754 | .11700 |
| #1 | .20339 | .21902 | 203.50 | 51.861 | .20910 | 76.648 | 4.3976 | .05586 | 20.243 | .15670 |
| #2 | .20251 | .21911 | 204.09 | 51.897 | .21058 | 76.913 | 4.4318 | .05564 | 19.909 | .15644 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.9185** | **.27697** | **2.7469** | **.07971** | **.16806** | **7.5981** | **16.260** | **.09989** | **2.5495** | **.25757** |
| Stddev | .0056 | .00042 | .0071 | .00159 | .00082 | .0504 | .108 | .00097 | .0059 | .00129 |
| %RSD | .06278 | .15232 | .25882 | 1.9886 | .48721 | .66378 | .66378 | .96613 | .23163 | .49987 |
| #1 | 8.9146 | .27727 | 2.7520 | .08083 | .16748 | 7.6338 | 16.336 | .10057 | 2.5453 | .25666 |
| #2 | 8.9225 | .27667 | 2.7419 | .07859 | .16864 | 7.5624 | 16.184 | .09921 | 2.5537 | .25848 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.6488** | **.13603** | **.08462** | **.35906** | **.89678** | **.20722** |
| Stddev | .0010 | .00028 | .03576 | .00081 | .00237 | .00099 |
| %RSD | .02162 | .20399 | 42.252 | .22547 | .26405 | .47546 |
| #1 | 4.6481 | .13584 | .10991 | .35964 | .89510 | .20652 |
| #2 | 4.6495 | .13623 | .05934 | .35849 | .89845 | .20791 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9127.3** | **90378.** | **10314.** |
| Stddev | 5.5 | 474. | 28. |
| %RSD | .06005 | .52422 | .27377 |
| #1 | 9123.5 | 90713. | 10294. |
| #2 | 9131.2 | 90043. | 10334. |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 17:50:02 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00100** | **49.012** | **.00117** | **.00166** | **-.00009** | **.00005** | **1.0248** | **.00596** | **.00030** | **.00014** | **.00009** | **.00056** | **49.925** |
| Stddev | .00044 | .379 | .00133 | .00018 | .00025 | .00005 | .0002 | .00246 | .00043 | .00013 | .00001 | .00068 | .367 |
| %RSD | 44.089 | .77400 | 114.09 | 11.025 | 276.08 | 108.51 | .01650 | 41.278 | 142.47 | 92.301 | 7.1176 | 122.39 | .73462 |
| #1 | -.00069 | 49.281 | .00023 | .00179 | -.00027 | .00001 | 1.0247 | .00770 | .00000 | .00005 | .00010 | .00104 | 50.185 |
| #2 | -.00131 | 48.744 | .00211 | .00153 | .00009 | .00009 | 1.0249 | .00422 | .00061 | .00024 | .00009 | .00007 | 49.666 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22331** | **-.00011** | **.03903** | **.00010** | **-.00054** | **252.86** | **.00014** | **.00297** | **-.00268** | **4.8812** | **-.00166** | **.00231** | **.00718** |
| Stddev | .00871 | .00216 | .00156 | .00008 | .00022 | .95 | .00035 | .00008 | .00093 | .0005 | .00129 | .00153 | .00664 |
| %RSD | 3.9010 | 1924.4 | 3.9962 | 77.229 | 40.198 | .37476 | 256.08 | 2.6496 | 34.667 | .00951 | 77.789 | 66.044 | 92.502 |
| #1 | .21715 | .00141 | .03793 | .00016 | -.00070 | 253.53 | -.00011 | .00302 | -.00203 | 4.8815 | -.00258 | .00123 | .01187 |
| #2 | .22947 | -.00164 | .04013 | .00005 | -.00039 | 252.19 | .00038 | .00291 | -.00334 | 4.8808 | -.00075 | .00339 | .00248 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01536** | **-.00011** | **.00032** | **4.8603** | **.00133** | **.00068** | **10.381** | **.00046** | **.00116** | **.00340** |
| Stddev | .01421 | .00015 | .00013 | .0175 | .00075 | .00066 | .065 | .00010 | .00006 | .00055 |
| %RSD | 92.502 | 141.12 | 39.404 | .36027 | 56.138 | 97.640 | .62150 | 21.165 | 5.1489 | 16.092 |
| #1 | .02541 | -.00022 | .00041 | 4.8479 | .00080 | .00021 | 10.335 | .00053 | .00112 | .00301 |
| #2 | .00531 | .00000 | .00023 | 4.8726 | .00186 | .00115 | 10.426 | .00039 | .00120 | .00378 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8155.2** | **83245.** | **8534.3** |
| Stddev | 10.0 | 1. | 34.7 |
| %RSD | .12304 | .00106 | .40618 |
| #1 | 8148.1 | 83244. | 8558.8 |
| #2 | 8162.3 | 83245. | 8509.8 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 17:52:23 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50531** | **.50820** | **.99752** | **.50872** | **.49604** | **.47842** | **.00096** | **4.9189** | **.49606** | **.50273** | **.50848** | **.50472** | **2.4193** | **48.913** |
| Stddev | .00071 | .00097 | .00205 | .00019 | .00071 | .00027 | .00318 | .0010 | .00033 | .00099 | .00034 | .00109 | .0083 | .084 |
| %RSD | .14027 | .19097 | .20581 | .03675 | .14385 | .05638 | 331.40 | .02107 | .06681 | .19656 | .06762 | .21553 | .34500 | .17256 |
| #1 | .50481 | .50751 | .99897 | .50885 | .49554 | .47861 | -.00129 | 4.9181 | .49629 | .50203 | .50873 | .50549 | 2.4134 | 48.853 |
| #2 | .50582 | .50888 | .99607 | .50858 | .49655 | .47822 | .00321 | 4.9196 | .49582 | .50343 | .50824 | .50395 | 2.4252 | 48.973 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97110** | **19.465** | **.48950** | **.50467** | **4.8773** | **.51200** | **.99622** | **.99470** | **.00132** | **1.0018** | **1.0058** | **5.0767** | **10.864** | **1.0062** |
| Stddev | .00181 | .005 | .00000 | .00016 | .0062 | .00050 | .00592 | .00221 | .00141 | .0037 | .0010 | .0084 | .018 | .0006 |
| %RSD | .18655 | .02429 | .00073 | .03127 | .12726 | .09820 | .59420 | .22227 | 107.43 | .36786 | .10071 | .16593 | .16593 | .06437 |
| #1 | .96982 | 19.461 | .48950 | .50456 | 4.8817 | .51164 | .99203 | .99627 | .00232 | .99921 | 1.0051 | 5.0707 | 10.851 | 1.0057 |
| #2 | .97238 | 19.468 | .48950 | .50478 | 4.8729 | .51235 | 1.0004 | .99314 | .00032 | 1.0044 | 1.0066 | 5.0826 | 10.877 | 1.0067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49413** | **.00196** | **.49691** | **1.0151** | **.00171** | **.47989** | **.48987** | **.49741** |
| Stddev | .00083 | .00113 | .00044 | .0029 | .04374 | .00080 | .00040 | .00649 |
| %RSD | .16891 | 57.374 | .08784 | .28311 | 2558.7 | .16570 | .08161 | 1.3053 |
| #1 | .49354 | .00276 | .49722 | 1.0131 | .03264 | .47933 | .48959 | .49282 |
| #2 | .49472 | .00117 | .49660 | 1.0171 | -.02922 | .48045 | .49015 | .50200 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8398.0** | **86699.** | **8606.5** |
| Stddev | .5 | 268. | 22.6 |
| %RSD | .00548 | .30858 | .26306 |
| #1 | 8397.7 | 86889. | 8590.5 |
| #2 | 8398.3 | 86510. | 8622.5 |

Sample Name: CCB Acquired: 5/23/2013 17:54:29 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.00018** | **-.00021** | **.00043** | W **-.00060** | **-.00003** | **-.00082** | **.00379** | **.00008** | **.00006** | **.00022** |
| Stddev | .00039 | .00009 | .00084 | .00029 | .00004 | .00004 | .00284 | .00328 | .00004 | .00011 | .00004 |
| %RSD | 76.157 | 49.945 | 401.09 | 68.212 | 5.8729 | 122.44 | 346.28 | 86.609 | 45.853 | 181.86 | 19.688 |
| #1 | -.00024 | .00012 | .00039 | .00063 | -.00062 | .00000 | -.00283 | .00147 | .00010 | -.00002 | .00019 |
| #2 | -.00079 | .00024 | -.00081 | .00022 | -.00057 | -.00006 | .00119 | .00611 | .00005 | .00014 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **-.00120** | **.15551** | **.00142** | **.00232** | **.00002** | **.00018** | **.01372** | **-.00001** | **-.00019** | **-.00197** |
| Stddev | .00053 | .00055 | .02522 | .00118 | .00171 | .00000 | .00026 | .02397 | .00003 | .00010 | .00062 |
| %RSD | 565.03 | 46.081 | 16.218 | 83.136 | 73.889 | 13.070 | 143.85 | 174.70 | 229.36 | 53.741 | 31.446 |
| #1 | -.00028 | -.00159 | .17335 | .00226 | .00353 | .00002 | .00000 | .03067 | .00001 | -.00026 | -.00153 |
| #2 | .00047 | -.00081 | .13768 | .00059 | .00111 | .00002 | .00037 | -.00323 | -.00004 | -.00012 | -.00240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00522** | W **.00437** | **.00034** | **.02538** | **.05431** | **-.00051** | **.00008** | **.00064** | **-.00041** | **.00018** | **.02298** |
| Stddev | .00242 | .00057 | .00133 | .00494 | .01056 | .00014 | .00009 | .00023 | .00017 | .00074 | .01274 |
| %RSD | 46.310 | 12.980 | 396.61 | 19.452 | 19.452 | 27.506 | 114.81 | 35.082 | 41.712 | 405.45 | 55.442 |
| #1 | .00693 | .00397 | -.00061 | .02887 | .06178 | -.00041 | .00015 | .00080 | -.00054 | .00071 | .03199 |
| #2 | .00351 | .00477 | .00128 | .02189 | .04684 | -.00061 | .00002 | .00048 | -.00029 | -.00034 | .01397 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00013** | **.00224** | **-.00008** |
| Stddev | .00082 | .00001 | .00308 |
| %RSD | 631.03 | .37633 | 3686.9 |
| #1 | .00045 | .00224 | .00210 |
| #2 | -.00071 | .00223 | -.00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8371.9** | **87281.** | **8443.8** |
| Stddev | 3.7 | 91. | 8.6 |
| %RSD | .04420 | .10445 | .10215 |
| #1 | 8369.3 | 87216. | 8449.9 |
| #2 | 8374.6 | 87345. | 8437.7 |

Sample Name: CCVL2067279□□ Acquired: 5/23/2013 17:56:43 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00971** | **.10549** | **.01519** | **.10309** | **.01023** | **.00096** | **.11809** | **.20016** | **.00510** | **.01037** | **.01053** | **.01566** | **.09859** | **3.0186** |
| Stddev | .00035 | .00009 | .00352 | .00017 | .00004 | .00001 | .00032 | .00262 | .00006 | .00003 | .00006 | .00026 | .00116 | .0158 |
| %RSD | 3.5604 | .08937 | 23.188 | .16006 | .38695 | .91229 | .26721 | 1.3094 | 1.1854 | .27460 | .55263 | 1.6877 | 1.1716 | .52394 |
| #1 | .00946 | .10543 | .01768 | .10297 | .01020 | .00095 | .11831 | .19831 | .00506 | .01039 | .01049 | .01585 | .09940 | 3.0074 |
| #2 | .00995 | .10556 | .01270 | .10321 | .01026 | .00096 | .11786 | .20202 | .00514 | .01035 | .01057 | .01547 | .09777 | 3.0297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01125** | **.20714** | **.01016** | **.02046** | **1.0315** | **.04232** | **2.9283** | **.00798** | **.00364** | **.01044** | **.01828** | **.53840** | **1.1522** | **.10373** |
| Stddev | .00010 | .00172 | .00003 | .00026 | .0138 | .00011 | .0043 | .00022 | .00105 | .00124 | .00378 | .00498 | .0107 | .00002 |
| %RSD | .89870 | .82979 | .25648 | 1.2722 | 1.3394 | .26004 | .14572 | 2.7032 | 28.842 | 11.872 | 20.654 | .92419 | .92419 | .01587 |
| #1 | .01132 | .20835 | .01014 | .02065 | 1.0412 | .04224 | 2.9253 | .00783 | .00438 | .01132 | .01561 | .54192 | 1.1597 | .10374 |
| #2 | .01118 | .20592 | .01017 | .02028 | 1.0217 | .04239 | 2.9313 | .00813 | .00289 | .00957 | .02096 | .53488 | 1.1446 | .10372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01005** | **.01492** | **.00974** | **.01552** | **.07525** | **.00946** | **.02233** | **.01661** |
| Stddev | .00010 | .00042 | .00017 | .00038 | .00171 | .00019 | .00008 | .00045 |
| %RSD | 1.0144 | 2.8350 | 1.7337 | 2.4397 | 2.2767 | 2.0242 | .35829 | 2.6942 |
| #1 | .00997 | .01522 | .00962 | .01525 | .07647 | .00933 | .02227 | .01629 |
| #2 | .01012 | .01462 | .00986 | .01578 | .07404 | .00960 | .02239 | .01692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8524.2** | **88445.** | **8570.2** |
| Stddev | 11.5 | 81. | 55.5 |
| %RSD | .13548 | .09174 | .64817 |
| #1 | 8516.0 | 88388. | 8609.4 |
| #2 | 8532.4 | 88502. | 8530.9 |

Sample Name: 280-42032-a-5-b  Acquired: 5/23/2013 17:58:59  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00177** | **135.84** | **.05356** | **.06278** | **1.2181** | **.00817** | **-.00598** | F **1100.3** | **.00813** | **.04579** |
| Stddev | .00023 | .22 | .00153 | .00089 | .0038 | .00010 | .00129 | 10.2 | .00018 | .00000 |
| %RSD | 12.858 | .16179 | 2.8618 | 1.4182 | .31432 | 1.1721 | 21.563 | .92367 | 2.2441 | .00874 |
| #1 | -.00161 | 135.69 | .05248 | .06341 | 1.2154 | .00810 | -.00507 | 1093.1 | .00800 | .04579 |
| #2 | -.00194 | 136.00 | .05464 | .06215 | 1.2208 | .00823 | -.00689 | 1107.4 | .00826 | .04579 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14974** | **.16921** | **191.53** | **31.594** | **.11676** | **58.109** | **4.1309** | **.01264** | **1.6346** | **.11212** |
| Stddev | .00015 | .00017 | .49 | .065 | .00107 | .206 | .0512 | .00036 | .0071 | .00009 |
| %RSD | .09845 | .10323 | .25380 | .20425 | .91825 | .35465 | 1.2385 | 2.8486 | .43236 | .07733 |
| #1 | .14964 | .16933 | 191.18 | 31.548 | .11752 | 57.964 | 4.0947 | .01238 | 1.6396 | .11206 |
| #2 | .14984 | .16909 | 191.87 | 31.639 | .11600 | 58.255 | 4.1670 | .01289 | 1.6296 | .11218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.9322** | **.19517** | **2.7060** | **-.00329** | **.00263** | **2.5294** | **5.4130** | **.02116** | **2.3994** | **.08480** |
| Stddev | .0024 | .00037 | .0018 | .00034 | .00292 | .0011 | .0024 | .00031 | .0046 | .00171 |
| %RSD | .03393 | .19199 | .06513 | 10.309 | 110.95 | .04452 | .04452 | 1.4502 | .19169 | 2.0137 |
| #1 | 6.9339 | .19544 | 2.7072 | -.00305 | .00057 | 2.5286 | 5.4113 | .02094 | 2.3961 | .08360 |
| #2 | 6.9306 | .19491 | 2.7047 | -.00353 | .00470 | 2.5302 | 5.4147 | .02137 | 2.4026 | .08601 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.6905** | **-.00249** | F **-.35557** | **.29433** | **.71641** | **.15187** |
| Stddev | .0034 | .00110 | .02400 | .00030 | .00206 | .00172 |
| %RSD | .09231 | 44.090 | 6.7493 | .10046 | .28788 | 1.1323 |
| #1 | 3.6881 | -.00326 | -.33860 | .29454 | .71495 | .15065 |
| #2 | 3.6929 | -.00171 | -.37254 | .29412 | .71786 | .15309 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9045.4** | **88348.** | **10038.** |
| Stddev | 7.8 | 595. | 36. |
| %RSD | .08635 | .67400 | .35711 |
| #1 | 9039.9 | 88769. | 10013. |
| #2 | 9050.9 | 87927. | 10063. |

Sample Name: 280-42032-a-6-b  Acquired: 5/23/2013 18:02:00  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00185** | **138.65** | **.05317** | **.06139** | **1.2765** | **.00831** | **-.00653** | F **1155.6** | **.00871** | **.04713** |
| Stddev | .00018 | .62 | .00181 | .00105 | .0025 | .00009 | .00060 | 3.2 | .00004 | .00002 |
| %RSD | 9.9823 | .44675 | 3.4101 | 1.7173 | .19344 | 1.1207 | 9.1957 | .27480 | .45329 | .05102 |
| #1 | -.00172 | 138.21 | .05445 | .06064 | 1.2747 | .00825 | -.00695 | 1153.3 | .00873 | .04712 |
| #2 | -.00198 | 139.09 | .05189 | .06214 | 1.2782 | .00838 | -.00611 | 1157.8 | .00868 | .04715 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15108** | **.17451** | **194.54** | **32.282** | **.11869** | **60.618** | **4.4289** | **.01329** | **1.5313** | **.11406** |
| Stddev | .00008 | .00080 | .69 | .052 | .00013 | .059 | .0466 | .00011 | .0013 | .00011 |
| %RSD | .05215 | .45721 | .35388 | .16158 | .10689 | .09698 | 1.0519 | .82872 | .08554 | .09218 |
| #1 | .15113 | .17394 | 194.06 | 32.246 | .11878 | 60.577 | 4.3960 | .01322 | 1.5304 | .11398 |
| #2 | .15102 | .17507 | 195.03 | 32.319 | .11860 | 60.660 | 4.4618 | .01337 | 1.5322 | .11413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.1165** | **.19599** | **2.6708** | **-.00108** | **.00356** | **2.3882** | **5.1107** | **.02060** | **2.4262** | **.08503** |
| Stddev | .0012 | .00161 | .0106 | .00262 | .00206 | .0211 | .0451 | .00018 | .0056 | .00076 |
| %RSD | .01650 | .82392 | .39520 | 242.30 | 57.708 | .88217 | .88217 | .88725 | .23156 | .89250 |
| #1 | 7.1156 | .19713 | 2.6633 | .00077 | .00502 | 2.4031 | 5.1426 | .02047 | 2.4222 | .08450 |
| #2 | 7.1173 | .19485 | 2.6782 | -.00294 | .00211 | 2.3733 | 5.0788 | .02073 | 2.4301 | .08557 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.6106** | **-.00317** | F **-.35297** | **.29525** | **.73063** | **.15419** |
| Stddev | .0028 | .00044 | .00299 | .00056 | .00138 | .00227 |
| %RSD | .07864 | 13.931 | .84794 | .19110 | .18917 | 1.4721 |
| #1 | 3.6086 | -.00348 | -.35085 | .29485 | .72966 | .15579 |
| #2 | 3.6126 | -.00286 | -.35509 | .29565 | .73161 | .15258 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8967.6** | **87201.** | **9893.0** |
| Stddev | 43.5 | 58. | 57.0 |
| %RSD | .48472 | .06698 | .57634 |
| #1 | 8936.9 | 87242. | 9933.3 |
| #2 | 8998.4 | 87159. | 9852.7 |

Sample Name: 280-42032-a-8-b  Acquired: 5/23/2013 18:05:02  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00205** | **137.22** | **.04230** | **.04289** | **1.2192** | **.00777** | **-.00644** | **468.21** | **.00638** | **.04766** |
| Stddev | .00060 | .25 | .00296 | .00050 | .0030 | .00009 | .00153 | 5.44 | .00018 | .00020 |
| %RSD | 29.409 | .18402 | 6.9912 | 1.1738 | .24898 | 1.1823 | 23.786 | 1.1619 | 2.7916 | .42726 |
| #1 | -.00248 | 137.04 | .04439 | .04325 | 1.2171 | .00770 | -.00535 | 472.06 | .00626 | .04781 |
| #2 | -.00162 | 137.39 | .04021 | .04253 | 1.2214 | .00783 | -.00752 | 464.36 | .00651 | .04752 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14058** | **.11738** | **154.72** | **34.418** | **.09949** | **46.794** | **3.2854** | **.00707** | **.92429** | **.11405** |
| Stddev | .00042 | .00052 | .78 | .016 | .00293 | .221 | .0213 | .00011 | .01826 | .00043 |
| %RSD | .30128 | .44145 | .50224 | .04598 | 2.9462 | .47161 | .64687 | 1.5215 | 1.9758 | .37494 |
| #1 | .14088 | .11775 | 154.17 | 34.429 | .09741 | 46.950 | 3.3004 | .00700 | .93720 | .11375 |
| #2 | .14028 | .11702 | 155.27 | 34.407 | .10156 | 46.638 | 3.2703 | .00715 | .91137 | .11436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.0872** | **.14596** | **1.4170** | **-.00036** | **.00534** | **3.0597** | **6.5477** | **.01205** | **1.0557** | **.07430** |
| Stddev | .0182 | .00077 | .0091 | .00007 | .00162 | .0256 | .0548 | .00004 | .0017 | .00134 |
| %RSD | .35776 | .52749 | .64207 | 19.486 | 30.346 | .83633 | .83633 | .35730 | .15728 | 1.8069 |
| #1 | 5.1000 | .14650 | 1.4235 | -.00041 | .00648 | 3.0778 | 6.5864 | .01208 | 1.0545 | .07525 |
| #2 | 5.0743 | .14541 | 1.4106 | -.00031 | .00419 | 3.0416 | 6.5089 | .01202 | 1.0569 | .07335 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4472** | **-.00400** | F **-.25164** | **.23209** | **.53052** | **.09113** |
| Stddev | .0024 | .00080 | .03817 | .00034 | .00338 | .00214 |
| %RSD | .16338 | 19.888 | 15.170 | .14716 | .63672 | 2.3493 |
| #1 | 1.4489 | -.00456 | -.22465 | .23233 | .53291 | .09264 |
| #2 | 1.4455 | -.00344 | -.27863 | .23185 | .52813 | .08961 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8803.4** | **86456.** | **9505.1** |
| Stddev | 25.3 | 601. | 33.8 |
| %RSD | .28712 | .69466 | .35529 |
| #1 | 8821.3 | 86031. | 9481.2 |
| #2 | 8785.6 | 86880. | 9528.9 |

Sample Name: 280-42032-a-11-b  Acquired: 5/23/2013 18:07:24  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00198** | **183.17** | **.05210** | **.07271** | **1.3091** | **.00912** | **.00369** | **496.54** | **.00593** | **.05609** |
| Stddev | .00036 | .20 | .00089 | .00059 | .0024 | .00010 | .00258 | 1.69 | .00001 | .00002 |
| %RSD | 18.389 | .10780 | 1.7127 | .80866 | .18494 | 1.1372 | 69.946 | .34067 | .13992 | .02853 |
| #1 | -.00172 | 183.03 | .05147 | .07230 | 1.3074 | .00919 | .00187 | 495.35 | .00593 | .05608 |
| #2 | -.00223 | 183.31 | .05273 | .07313 | 1.3108 | .00905 | .00552 | 497.74 | .00592 | .05610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18472** | **.15671** | **195.13** | **45.385** | **.12404** | **56.922** | **3.7393** | **.00940** | **1.0228** | **.14048** |
| Stddev | .00012 | .00069 | .06 | .027 | .00367 | .069 | .0347 | .00035 | .0072 | .00006 |
| %RSD | .06763 | .44034 | .02840 | .05959 | 2.9553 | .12078 | .92799 | 3.7399 | .70097 | .04174 |
| #1 | .18481 | .15622 | 195.09 | 45.365 | .12145 | 56.971 | 3.7638 | .00915 | 1.0177 | .14052 |
| #2 | .18463 | .15720 | 195.17 | 45.404 | .12663 | 56.873 | 3.7148 | .00964 | 1.0279 | .14044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.5989** | **.15345** | **1.7015** | **-.00153** | **.00564** | **4.3438** | **9.2958** | **.01915** | **1.0545** | **.08322** |
| Stddev | .0024 | .00053 | .0008 | .00182 | .00095 | .0665 | .1422 | .00120 | .0008 | .00052 |
| %RSD | .04329 | .34465 | .04956 | 119.04 | 16.807 | 1.5301 | 1.5301 | 6.2548 | .07334 | .62766 |
| #1 | 5.5972 | .15308 | 1.7021 | -.00024 | .00631 | 4.3908 | 9.3964 | .01830 | 1.0540 | .08285 |
| #2 | 5.6007 | .15382 | 1.7010 | -.00282 | .00497 | 4.2968 | 9.1952 | .02000 | 1.0550 | .08359 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.7874** | **-.00414** | F **-.27093** | **.31652** | **.63513** | **.14772** |
| Stddev | .0024 | .00126 | .01094 | .00038 | .00215 | .00076 |
| %RSD | .06239 | 30.420 | 4.0363 | .11922 | .33887 | .51403 |
| #1 | 3.7890 | -.00503 | -.27866 | .31679 | .63665 | .14718 |
| #2 | 3.7857 | -.00325 | -.26319 | .31625 | .63360 | .14825 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8942.8** | **88139.** | **9725.5** |
| Stddev | 18.3 | 190. | 25.8 |
| %RSD | .20428 | .21607 | .26482 |
| #1 | 8955.8 | 88273. | 9743.7 |
| #2 | 8929.9 | 88004. | 9707.3 |

Sample Name: 280-42032-a-12-b  Acquired: 5/23/2013 18:09:51  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00229** | **184.13** | **.05093** | **.07229** | **1.3079** | **.00916** | **.00158** | **490.45** | **.00581** | **.05653** |
| Stddev | .00013 | .61 | .00251 | .00071 | .0056 | .00009 | .00196 | 2.65 | .00013 | .00011 |
| %RSD | 5.5865 | .33280 | 4.9210 | .98070 | .43045 | 1.0352 | 123.97 | .54037 | 2.1695 | .18574 |
| #1 | -.00220 | 184.57 | .05270 | .07279 | 1.3118 | .00909 | .00020 | 492.33 | .00590 | .05661 |
| #2 | -.00238 | 183.70 | .04916 | .07179 | 1.3039 | .00923 | .00297 | 488.58 | .00572 | .05646 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18322** | **.13664** | **195.47** | **45.798** | **.12480** | **56.711** | **3.8772** | **.00928** | **1.0422** | **.13771** |
| Stddev | .00114 | .00099 | .20 | .246 | .00349 | .022 | .0178 | .00015 | .0000 | .00085 |
| %RSD | .62084 | .72128 | .10022 | .53744 | 2.7943 | .03859 | .45980 | 1.5825 | .00415 | .61898 |
| #1 | .18403 | .13595 | 195.61 | 45.972 | .12726 | 56.696 | 3.8898 | .00918 | 1.0422 | .13831 |
| #2 | .18242 | .13734 | 195.34 | 45.624 | .12233 | 56.727 | 3.8645 | .00938 | 1.0423 | .13710 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.4977** | **.14047** | **1.5540** | **-.00359** | **.00188** | **4.3920** | **9.3988** | **.01915** | **1.0261** | **.08637** |
| Stddev | .0225 | .00143 | .0060 | .00140 | .00047 | .0005 | .0010 | .00010 | .0040 | .00026 |
| %RSD | .40829 | 1.0198 | .38461 | 39.139 | 25.102 | .01074 | .01074 | .50637 | .38813 | .29958 |
| #1 | 5.5136 | .14148 | 1.5582 | -.00260 | .00221 | 4.3916 | 9.3981 | .01921 | 1.0289 | .08656 |
| #2 | 5.4818 | .13945 | 1.5498 | -.00458 | .00154 | 4.3923 | 9.3995 | .01908 | 1.0233 | .08619 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.7429** | **-.00293** | F **-.30184** | **.31607** | **.63428** | **.15106** |
| Stddev | .0028 | .00004 | .02443 | .00193 | .00040 | .00122 |
| %RSD | .07585 | 1.3555 | 8.0922 | .61189 | .06297 | .80498 |
| #1 | 3.7449 | -.00290 | -.31912 | .31470 | .63456 | .15192 |
| #2 | 3.7409 | -.00296 | -.28457 | .31744 | .63400 | .15020 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8955.7** | **87636.** | **9706.3** |
| Stddev | 28.7 | 586. | 28.1 |
| %RSD | .32101 | .66923 | .28912 |
| #1 | 8935.4 | 87221. | 9686.5 |
| #2 | 8976.0 | 88050. | 9726.2 |

Sample Name: 280-42032-a-13-b  Acquired: 5/23/2013 18:12:18  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00181** | **185.34** | **.05034** | **.07366** | **1.3091** | **.00919** | **.00143** | W **532.94** | **.00620** | **.05587** |
| Stddev | .00067 | .19 | .00231 | .00025 | .0018 | .00007 | .00093 | 7.89 | .00025 | .00004 |
| %RSD | 36.897 | .10431 | 4.5961 | .33297 | .13349 | .75040 | 65.455 | 1.4806 | 4.0571 | .06361 |
| #1 | -.00229 | 185.21 | .05197 | .07349 | 1.3079 | .00924 | .00077 | 538.52 | .00638 | .05585 |
| #2 | -.00134 | 185.48 | .04870 | .07383 | 1.3104 | .00914 | .00209 | 527.36 | .00602 | .05590 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18293** | **.15211** | **192.02** | **44.981** | **.12628** | **57.341** | **3.7478** | **.00947** | **1.0394** | **.14296** |
| Stddev | .00034 | .00077 | .47 | .084 | .00063 | .181 | .0296 | .00011 | .0029 | .00100 |
| %RSD | .18336 | .50577 | .24304 | .18634 | .49967 | .31495 | .78945 | 1.1244 | .27458 | .69693 |
| #1 | .18317 | .15156 | 191.69 | 44.921 | .12583 | 57.213 | 3.7687 | .00955 | 1.0374 | .14367 |
| #2 | .18269 | .15265 | 192.35 | 45.040 | .12672 | 57.469 | 3.7269 | .00940 | 1.0414 | .14226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.5409** | **.13837** | **1.6331** | **-.00342** | **.00337** | **5.8158** | **12.446** | **.01918** | **1.0860** | **.08332** |
| Stddev | .0025 | .00070 | .0000 | .00032 | .00363 | .0060 | .013 | .00051 | .0026 | .00029 |
| %RSD | .04444 | .50392 | .00228 | 9.4994 | 107.85 | .10350 | .10350 | 2.6545 | .23808 | .35228 |
| #1 | 5.5426 | .13788 | 1.6331 | -.00319 | .00594 | 5.8115 | 12.437 | .01882 | 1.0842 | .08352 |
| #2 | 5.5392 | .13886 | 1.6331 | -.00365 | .00080 | 5.8200 | 12.455 | .01954 | 1.0878 | .08311 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.5583** | **-.00373** | F **-.24968** | **.30562** | **.62497** | **.15510** |
| Stddev | .0044 | .00021 | .01323 | .00107 | .00119 | .00181 |
| %RSD | .12276 | 5.7542 | 5.3002 | .35052 | .18979 | 1.1673 |
| #1 | 3.5614 | -.00358 | -.25904 | .30486 | .62413 | .15382 |
| #2 | 3.5553 | -.00388 | -.24032 | .30638 | .62581 | .15638 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8957.5** | **87575.** | **9707.7** |
| Stddev | 1.2 | 161. | 20.4 |
| %RSD | .01289 | .18436 | .20996 |
| #1 | 8956.7 | 87461. | 9693.3 |
| #2 | 8958.3 | 87690. | 9722.1 |

Sample Name: 280-42032-a-14-b  Acquired: 5/23/2013 18:14:44  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00190** | **226.89** | **.06524** | **.09917** | **1.8226** | **.01103** | **-.00117** | W **790.55** | **.00960** | **.06701** |
| Stddev | .00077 | .59 | .00210 | .00083 | .0034 | .00006 | .00028 | 6.65 | .00013 | .00005 |
| %RSD | 40.550 | .26044 | 3.2235 | .84081 | .18626 | .50714 | 23.929 | .84170 | 1.3867 | .07880 |
| #1 | -.00136 | 227.30 | .06375 | .09976 | 1.8250 | .01099 | -.00137 | 795.26 | .00950 | .06705 |
| #2 | -.00245 | 226.47 | .06673 | .09858 | 1.8202 | .01107 | -.00097 | 785.85 | .00969 | .06697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22166** | **.21376** | **208.13** | **55.441** | **.16861** | **76.308** | **4.9947** | **.01088** | **1.5193** | **.17600** |
| Stddev | .00026 | .00022 | .29 | .149 | .00152 | .287 | .0278 | .00029 | .0079 | .00034 |
| %RSD | .11838 | .10492 | .14069 | .26822 | .90071 | .37555 | .55574 | 2.6931 | .51899 | .19544 |
| #1 | .22148 | .21391 | 208.34 | 55.546 | .16969 | 76.106 | 4.9751 | .01109 | 1.5249 | .17624 |
| #2 | .22185 | .21360 | 207.93 | 55.336 | .16754 | 76.511 | 5.0144 | .01068 | 1.5138 | .17575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.5382** | **.20713** | **2.7151** | **-.00309** | **.00332** | **3.8098** | **8.1530** | **.01958** | **1.9012** | **.09642** |
| Stddev | .0002 | .00081 | .0051 | .00184 | .00005 | .0714 | .1527 | .00017 | .0039 | .00178 |
| %RSD | .00226 | .39092 | .18823 | 59.516 | 1.6110 | 1.8730 | 1.8730 | .85275 | .20346 | 1.8459 |
| #1 | 8.5381 | .20771 | 2.7187 | -.00439 | .00336 | 3.8603 | 8.2610 | .01970 | 1.9039 | .09516 |
| #2 | 8.5383 | .20656 | 2.7115 | -.00179 | .00328 | 3.7593 | 8.0450 | .01946 | 1.8985 | .09768 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3341** | **-.00327** | F **-.30607** | **.34512** | **.77769** | **.17062** |
| Stddev | .0010 | .00027 | .02127 | .00142 | .00016 | .00009 |
| %RSD | .02859 | 8.3645 | 6.9505 | .41251 | .02086 | .05111 |
| #1 | 3.3347 | -.00347 | -.29103 | .34411 | .77757 | .17068 |
| #2 | 3.3334 | -.00308 | -.32111 | .34612 | .77780 | .17056 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9112.7** | **88278.** | **10175.** |
| Stddev | 5.0 | 394. | 73. |
| %RSD | .05504 | .44603 | .72047 |
| #1 | 9116.2 | 88556. | 10124. |
| #2 | 9109.1 | 87999. | 10227. |

Sample Name: 280-42032-a-15-b  Acquired: 5/23/2013 18:17:11  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00261** | **223.19** | **.06597** | **.10363** | **1.8561** | **.01093** | **-.00348** | F **1007.5** | **.00796** | **.06766** |
| Stddev | .00014 | .07 | .00147 | .00046 | .0006 | .00001 | .00213 | 6.0 | .00001 | .00005 |
| %RSD | 5.4483 | .03260 | 2.2229 | .44160 | .03439 | .09863 | 61.207 | .59243 | .18239 | .07633 |
| #1 | -.00271 | 223.24 | .06493 | .10331 | 1.8557 | .01094 | -.00197 | 1011.8 | .00795 | .06762 |
| #2 | -.00251 | 223.14 | .06701 | .10395 | 1.8566 | .01092 | -.00498 | 1003.3 | .00797 | .06770 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 1000.0 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22397** | **.18046** | **203.94** | **57.745** | **.17125** | **78.705** | **4.6715** | **.01166** | **1.5536** | **.17889** |
| Stddev | .00044 | .00007 | .36 | .043 | .00145 | .417 | .0284 | .00011 | .0168 | .00061 |
| %RSD | .19500 | .03995 | .17831 | .07386 | .84751 | .52964 | .60770 | .90601 | 1.0798 | .33852 |
| #1 | .22366 | .18041 | 203.68 | 57.775 | .17022 | 78.410 | 4.6514 | .01173 | 1.5655 | .17846 |
| #2 | .22428 | .18051 | 204.20 | 57.715 | .17228 | 79.000 | 4.6916 | .01158 | 1.5418 | .17932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.5049** | **.16966** | **2.8291** | **-.00069** | **.00588** | **3.9466** | **8.4458** | **.01810** | **2.3239** | **.09142** |
| Stddev | .0251 | .00058 | .0016 | .00084 | .00204 | .0624 | .1336 | .00029 | .0010 | .00272 |
| %RSD | .29563 | .34176 | .05691 | 120.41 | 34.633 | 1.5824 | 1.5824 | 1.5767 | .04154 | 2.9698 |
| #1 | 8.4871 | .16925 | 2.8302 | -.00010 | .00732 | 3.9908 | 8.5403 | .01790 | 2.3246 | .09334 |
| #2 | 8.5227 | .17007 | 2.8279 | -.00129 | .00444 | 3.9025 | 8.3513 | .01830 | 2.3232 | .08950 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2713** | **-.00477** | F **-.33493** | **.35518** | **.72992** | **.11462** |
| Stddev | .0055 | .00011 | .03371 | .00037 | .00498 | .00102 |
| %RSD | .16950 | 2.2267 | 10.063 | .10431 | .68227 | .88727 |
| #1 | 3.2674 | -.00470 | -.35877 | .35491 | .72639 | .11534 |
| #2 | 3.2752 | -.00485 | -.31110 | .35544 | .73344 | .11390 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9006.0** | **87420.** | **10061.** |
| Stddev | 21.1 | 196. | 29. |
| %RSD | .23391 | .22400 | .28859 |
| #1 | 9020.9 | 87559. | 10081. |
| #2 | 8991.1 | 87282. | 10040. |

Sample Name: 280-42032-a-17-b  Acquired: 5/23/2013 18:20:12  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00216** | **241.27** | **.06695** | **.09953** | **1.9344** | **.01205** | **-.00202** | W **726.23** | **.01000** | **.07198** |
| Stddev | .00016 | .29 | .00654 | .00062 | .0032 | .00005 | .00163 | 2.96 | .00007 | .00015 |
| %RSD | 7.4559 | .12048 | 9.7713 | .62080 | .16821 | .39798 | 80.394 | .40695 | .69359 | .20595 |
| #1 | -.00205 | 241.06 | .06232 | .09910 | 1.9321 | .01201 | -.00087 | 724.14 | .01005 | .07208 |
| #2 | -.00228 | 241.47 | .07158 | .09997 | 1.9367 | .01208 | -.00317 | 728.32 | .00995 | .07187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23033** | **.24180** | **218.01** | **61.452** | **.17753** | **80.634** | **5.9271** | **.01094** | **1.4420** | **.18763** |
| Stddev | .00081 | .00121 | .19 | .263 | .00226 | .404 | .0417 | .00003 | .0076 | .00007 |
| %RSD | .35174 | .49882 | .08683 | .42875 | 1.2739 | .50093 | .70427 | .31406 | .52380 | .03702 |
| #1 | .22976 | .24095 | 217.87 | 61.266 | .17593 | 80.349 | 5.8976 | .01092 | 1.4474 | .18758 |
| #2 | .23090 | .24266 | 218.14 | 61.638 | .17913 | 80.920 | 5.9566 | .01097 | 1.4367 | .18768 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.5698** | **.23079** | **2.6490** | **-.00471** | **.00532** | **3.5806** | **7.6625** | **.02010** | **1.6971** | **.10142** |
| Stddev | .0206 | .00259 | .0045 | .00169 | .00091 | .0268 | .0574 | .00083 | .0052 | .00172 |
| %RSD | .21525 | 1.1232 | .16903 | 35.885 | 17.146 | .74955 | .74955 | 4.1174 | .30776 | 1.6913 |
| #1 | 9.5843 | .23262 | 2.6522 | -.00590 | .00597 | 3.5616 | 7.6219 | .01952 | 1.6934 | .10021 |
| #2 | 9.5552 | .22896 | 2.6459 | -.00351 | .00468 | 3.5996 | 7.7031 | .02069 | 1.7008 | .10264 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0209** | **-.00348** | F **-.30351** | **.34590** | **.84986** | **.19442** |
| Stddev | .0122 | .00057 | .05430 | .00169 | .00364 | .00151 |
| %RSD | .40245 | 16.430 | 17.891 | .48795 | .42791 | .77744 |
| #1 | 3.0123 | -.00388 | -.26511 | .34470 | .84729 | .19335 |
| #2 | 3.0295 | -.00307 | -.34190 | .34709 | .85243 | .19549 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9100.7** | **88059.** | **10195.** |
| Stddev | 16.8 | 722. | 66. |
| %RSD | .18410 | .82004 | .64454 |
| #1 | 9088.9 | 88570. | 10149. |
| #2 | 9112.6 | 87548. | 10242. |

Sample Name: 280-42032-a-18-b  Acquired: 5/23/2013 18:22:39  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00231** | **225.12** | **.06784** | **.07907** | **1.7996** | **.01194** | **-.00403** | W **709.63** | **.00635** | **.07073** |
| Stddev | .00018 | .38 | .00262 | .00061 | .0019 | .00002 | .00000 | 4.03 | .00003 | .00007 |
| %RSD | 7.6084 | .16677 | 3.8591 | .77480 | .10555 | .13371 | .10298 | .56817 | .54845 | .09895 |
| #1 | -.00243 | 224.85 | .06599 | .07951 | 1.7982 | .01195 | -.00402 | 712.48 | .00633 | .07078 |
| #2 | -.00218 | 225.39 | .06969 | .07864 | 1.8009 | .01193 | -.00403 | 706.77 | .00638 | .07068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21552** | **.15179** | **218.22** | **53.530** | **.16449** | **69.967** | **5.3569** | **.01073** | **1.2349** | **.17457** |
| Stddev | .00029 | .00103 | .18 | .024 | .00155 | .024 | .0070 | .00019 | .0130 | .00088 |
| %RSD | .13657 | .68154 | .08090 | .04520 | .94009 | .03423 | .13153 | 1.8172 | 1.0483 | .50589 |
| #1 | .21531 | .15253 | 218.10 | 53.512 | .16558 | 69.984 | 5.3519 | .01086 | 1.2441 | .17395 |
| #2 | .21573 | .15106 | 218.35 | 53.547 | .16339 | 69.950 | 5.3619 | .01059 | 1.2257 | .17520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.2750** | **.14360** | **1.7104** | **-.00503** | **.00573** | **5.2892** | **11.319** | **.01861** | **1.5669** | **.10048** |
| Stddev | .0049 | .00062 | .0148 | .00315 | .00344 | .0771 | .165 | .00017 | .0022 | .00049 |
| %RSD | .06766 | .43181 | .86703 | 62.546 | 59.948 | 1.4570 | 1.4570 | .91011 | .14236 | .49129 |
| #1 | 7.2715 | .14403 | 1.6999 | -.00726 | .00817 | 5.3436 | 11.435 | .01873 | 1.5653 | .10013 |
| #2 | 7.2784 | .14316 | 1.7209 | -.00281 | .00330 | 5.2347 | 11.202 | .01849 | 1.5685 | .10082 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0743** | **-.00458** | F **-.37287** | **.35397** | **.71725** | **.16719** |
| Stddev | .0006 | .00068 | .00746 | .00126 | .00071 | .00014 |
| %RSD | .02114 | 14.905 | 2.0019 | .35545 | .09872 | .08185 |
| #1 | 3.0739 | -.00506 | -.37815 | .35485 | .71675 | .16728 |
| #2 | 3.0748 | -.00410 | -.36759 | .35308 | .71775 | .16709 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9022.1** | **88343.** | **10002.** |
| Stddev | 7.2 | 6. | 76. |
| %RSD | .07936 | .00646 | .76165 |
| #1 | 9027.2 | 88347. | 9948.1 |
| #2 | 9017.0 | 88339. | 10056. |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 18:25:05 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00074** | **50.420** | **.00173** | **.00118** | **-.00015** | **.00001** | W **1.0627** | **.02276** | **.00052** | **.00058** | **-.00001** | **-.00033** |
| Stddev | .00017 | .144 | .00017 | .00021 | .00006 | .00013 | .0046 | .00966 | .00020 | .00027 | .00007 | .00049 |
| %RSD | 23.337 | .28606 | 9.6051 | 17.458 | 36.559 | 842.60 | .43535 | 42.447 | 38.308 | 46.564 | 488.04 | 148.63 |
| #1 | -.00062 | 50.522 | .00185 | .00133 | -.00011 | .00010 | 1.0660 | .02959 | .00067 | .00077 | -.00006 | .00002 |
| #2 | -.00086 | 50.318 | .00161 | .00104 | -.00019 | -.00007 | 1.0594 | .01593 | .00038 | .00039 | .00003 | -.00067 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.088** | **.23931** | **.00350** | **.04026** | **.00010** | **-.00056** | **261.80** | **.00051** | **.00464** | **-.00259** | **5.0442** | **-.00020** |
| Stddev | .001 | .03234 | .00389 | .00184 | .00001 | .00016 | .38 | .00030 | .00010 | .00073 | .0082 | .00188 |
| %RSD | .00250 | 13.512 | 110.89 | 4.5795 | 4.9134 | 28.024 | .14622 | 57.795 | 2.2573 | 28.077 | .16298 | 917.58 |
| #1 | 52.087 | .21645 | .00076 | .03896 | .00011 | -.00067 | 261.53 | .00030 | .00457 | -.00310 | 5.0384 | .00112 |
| #2 | 52.089 | .26218 | .00625 | .04156 | .00010 | -.00045 | 262.07 | .00072 | .00472 | -.00207 | 5.0500 | -.00153 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00402** | **.00951** | **.02035** | **-.00008** | **.00028** | **5.0541** | **.00240** | **.00154** | W **10.799** | **-.00042** | **.00283** | **-.00136** |
| Stddev | .00097 | .01420 | .03038 | .00036 | .00001 | .0110 | .00014 | .00033 | .006 | .00031 | .00017 | .00028 |
| %RSD | 24.103 | 149.31 | 149.31 | 444.53 | 4.1131 | .21818 | 5.7375 | 21.333 | .05268 | 73.116 | 5.8327 | 20.648 |
| #1 | .00471 | -.00053 | -.00113 | .00017 | .00029 | 5.0619 | .00230 | .00177 | 10.795 | -.00020 | .00271 | -.00156 |
| #2 | .00334 | .01955 | .04183 | -.00033 | .00027 | 5.0463 | .00249 | .00131 | 10.803 | -.00064 | .00295 | -.00116 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8023.5** | **80358.** | **8211.7** |
| Stddev | 59.5 | 258. | 15.6 |
| %RSD | .74139 | .32121 | .19026 |
| #1 | 7981.5 | 80176. | 8222.8 |
| #2 | 8065.6 | 80541. | 8200.7 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 18:27:26 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52641** | **.52430** | **1.0328** | **.52164** | **.50553** | **.48964** | **.00046** | **4.9682** | **.50058** | **.51135** | **.52483** | **.51166** | **2.4581** |
| Stddev | .00049 | .00044 | .0041 | .00023 | .00238 | .00442 | .00273 | .0106 | .00027 | .00030 | .00010 | .00124 | .0043 |
| %RSD | .09267 | .08369 | .40100 | .04323 | .47098 | .90328 | 586.43 | .21409 | .05360 | .05947 | .01908 | .24171 | .17579 |
| #1 | .52606 | .52461 | 1.0299 | .52148 | .50384 | .48651 | -.00146 | 4.9757 | .50077 | .51113 | .52476 | .51079 | 2.4550 |
| #2 | .52675 | .52399 | 1.0358 | .52180 | .50721 | .49276 | .00239 | 4.9607 | .50039 | .51156 | .52490 | .51254 | 2.4612 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.569** | **.98187** | **20.393** | **.50298** | **.51796** | **5.0105** | **.52834** | **1.0277** | **1.0024** | **-.00054** | **1.0148** | **1.0412** | **5.2284** |
| Stddev | .126 | .00475 | .010 | .00006 | .00058 | .0466 | .00144 | .0011 | .0022 | .00164 | .0023 | .0018 | .0574 |
| %RSD | .25336 | .48342 | .05074 | .01279 | .11279 | .93081 | .27202 | .10402 | .21981 | 303.41 | .23086 | .17048 | 1.0986 |
| #1 | 49.480 | .97852 | 20.386 | .50293 | .51755 | 4.9775 | .52733 | 1.0270 | 1.0040 | -.00170 | 1.0164 | 1.0399 | 5.1878 |
| #2 | 49.657 | .98523 | 20.401 | .50302 | .51837 | 5.0435 | .52936 | 1.0285 | 1.0009 | .00062 | 1.0131 | 1.0424 | 5.2690 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.189** | **1.0346** | **.50340** | **.00166** | **.50931** | **1.0284** | **.01661** | **.49356** | **.51301** | **.50561** |
| Stddev | .123 | .0023 | .00178 | .00078 | .00045 | .0022 | .00519 | .00087 | .00055 | .00062 |
| %RSD | 1.0986 | .22439 | .35342 | 47.239 | .08881 | .20946 | 31.250 | .17601 | .10732 | .12193 |
| #1 | 11.102 | 1.0363 | .50215 | .00111 | .50899 | 1.0299 | .02028 | .49417 | .51340 | .50605 |
| #2 | 11.276 | 1.0330 | .50466 | .00221 | .50963 | 1.0269 | .01294 | .49294 | .51262 | .50517 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8280.8** | **83999.** | **8363.7** |
| Stddev | 25.9 | 364. | 31.9 |
| %RSD | .31273 | .43323 | .38120 |
| #1 | 8299.1 | 84257. | 8386.3 |
| #2 | 8262.5 | 83742. | 8341.2 |

Sample Name: CCB Acquired: 5/23/2013 18:29:32 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00133** | **.00177** | **-.00017** | **-.00043** | **-.00010** | **.00006** | **-.00169** | **.01231** | **.00006** | **.00009** | **.00009** |
| Stddev | .00006 | .00005 | .00016 | .00046 | .00020 | .00002 | .00159 | .00082 | .00000 | .00005 | .00003 |
| %RSD | 4.2595 | 2.9096 | 94.812 | 105.64 | 203.35 | 38.494 | 94.284 | 6.6625 | 6.9083 | 53.347 | 36.481 |
| #1 | -.00129 | .00173 | -.00029 | -.00011 | .00004 | .00008 | -.00056 | .01289 | .00005 | .00012 | .00007 |
| #2 | -.00137 | .00181 | -.00006 | -.00076 | -.00024 | .00005 | -.00281 | .01173 | .00006 | .00005 | .00012 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.00231** | **.20346** | **.00125** | **.00254** | **.00002** | **.00036** | **.01437** | **.00007** | **.00035** | **-.00113** |
| Stddev | .00078 | .00105 | .06355 | .00104 | .00149 | .00002 | .00047 | .00336 | .00021 | .00080 | .00012 |
| %RSD | 986.95 | 45.360 | 31.234 | 83.287 | 58.594 | 83.099 | 128.80 | 23.387 | 307.70 | 228.79 | 10.339 |
| #1 | -.00063 | .00157 | .24839 | .00051 | .00149 | .00001 | .00003 | .01674 | -.00008 | -.00022 | -.00105 |
| #2 | .00047 | .00305 | .15852 | .00198 | .00359 | .00004 | .00070 | .01199 | .00022 | .00092 | -.00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00296** | W **.00413** | **.00148** | **.02272** | **.04863** | **.00000** | **.00010** | **.00160** | **-.00052** | **.00028** | **.01636** |
| Stddev | .00268 | .00101 | .00022 | .00168 | .00359 | .0002 | .00007 | .00079 | .00012 | .00022 | .05355 |
| %RSD | 90.646 | 24.473 | 15.064 | 7.3725 | 7.3725 | 8844.5 | 73.033 | 49.352 | 22.937 | 76.864 | 327.25 |
| #1 | .00106 | .00341 | .00163 | .02154 | .04609 | .00014 | .00015 | .00216 | -.00044 | .00043 | -.02150 |
| #2 | .00485 | .00484 | .00132 | .02391 | .05116 | -.00014 | .00005 | .00104 | -.00061 | .00013 | .05423 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00059** | **.00249** | **.00172** |
| Stddev | .00038 | .00005 | .00037 |
| %RSD | 64.283 | 2.1130 | 21.329 |
| #1 | -.00086 | .00253 | .00146 |
| #2 | -.00032 | .00245 | .00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8230.7** | **84992.** | **8382.3** |
| Stddev | 11.9 | 82. | 50.8 |
| %RSD | .14470 | .09605 | .60565 |
| #1 | 8239.1 | 84934. | 8346.4 |
| #2 | 8222.3 | 85050. | 8418.2 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 18:31:45 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01017** | **.11141** | **.01333** | **.10598** | **.00997** | **.00101** | **.12054** | **.21311** | **.00533** | **.01087** | **.01101** | **.01581** | **.10488** |
| Stddev | .00053 | .00080 | .00063 | .00034 | .00041 | .00015 | .00088 | .00318 | .00004 | .00021 | .00012 | .00049 | .00166 |
| %RSD | 5.2337 | .72089 | 4.6968 | .31831 | 4.1494 | 15.034 | .73055 | 1.4914 | .79382 | 1.9313 | 1.0555 | 3.0744 | 1.5858 |
| #1 | .01054 | .11085 | .01289 | .10621 | .00968 | .00090 | .12116 | .21086 | .00536 | .01102 | .01109 | .01615 | .10605 |
| #2 | .00979 | .11198 | .01377 | .10574 | .01027 | .00111 | .11991 | .21535 | .00530 | .01072 | .01093 | .01546 | .10370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1200** | **.01121** | **.21519** | **.01054** | **.02091** | **1.0717** | **.04420** | **3.0236** | **.00946** | **.00072** | **.01109** | **.01556** | **.55337** |
| Stddev | .0897 | .00064 | .00080 | .00003 | .00004 | .0251 | .00035 | .0014 | .00011 | .00072 | .00007 | .00316 | .00751 |
| %RSD | 2.8741 | 5.6726 | .36995 | .23837 | .17374 | 2.3390 | .79947 | .04660 | 1.1280 | 100.42 | .67585 | 20.301 | 1.3563 |
| #1 | 3.0565 | .01076 | .21463 | .01053 | .02088 | 1.0540 | .04445 | 3.0246 | .00953 | .00021 | .01104 | .01780 | .55868 |
| #2 | 3.1834 | .01166 | .21575 | .01056 | .02094 | 1.0894 | .04395 | 3.0226 | .00938 | .00123 | .01114 | .01333 | .54806 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1842** | **.10665** | **.01034** | **.01547** | **.01000** | **.01761** | F **.10123** | **.00959** | **.02298** | **.01530** |
| Stddev | .0161 | .00019 | .00004 | .00132 | .00037 | .00057 | .03755 | .00007 | .00052 | .00008 |
| %RSD | 1.3563 | .18106 | .38336 | 8.5583 | 3.6935 | 3.2368 | 37.095 | .75637 | 2.2524 | .54156 |
| #1 | 1.1956 | .10651 | .01031 | .01453 | .01026 | .01801 | .12778 | .00964 | .02262 | .01536 |
| #2 | 1.1729 | .10679 | .01037 | .01640 | .00974 | .01721 | .07468 | .00953 | .02335 | .01524 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8360.7** | **85951.** | **8334.2** |
| Stddev | 30.0 | 565. | 25.3 |
| %RSD | .35826 | .65757 | .30379 |
| #1 | 8339.5 | 86351. | 8352.1 |
| #2 | 8381.9 | 85551. | 8316.3 |

Sample Name: mb 280-175399/1-a  Acquired: 5/23/2013 18:34:01  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00130** | **.01812** | **-.00228** | **.00334** | **.00031** | **.00003** | **-.01189** | **.04144** | **.00088** | **-.00047** |
| Stddev | .00069 | .00013 | .00033 | .00037 | .00009 | .00012 | .00119 | .00093 | .00015 | .00010 |
| %RSD | 53.311 | .74090 | 14.376 | 11.181 | 27.385 | 387.26 | 10.048 | 2.2369 | 17.019 | 20.589 |
| #1 | -.00081 | .01802 | -.00251 | .00307 | .00037 | -.00006 | -.01104 | .04078 | .00099 | -.00053 |
| #2 | -.00179 | .01821 | -.00205 | .00360 | .00025 | .00012 | -.01273 | .04209 | .00077 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00001** | **.03030** | **.13143** | **-.00187** | **.00681** | **.00034** | **.00020** | **.05638** | **-.00069** |
| Stddev | .00021 | .00006 | .00079 | .00884 | .00005 | .00068 | .00004 | .00006 | .01359 | .00024 |
| %RSD | 98.699 | 924.85 | 2.5960 | 6.7273 | 2.8426 | 10.014 | 12.003 | 32.422 | 24.104 | 34.894 |
| #1 | .00036 | .00005 | .02975 | .12517 | -.00183 | .00632 | .00031 | .00024 | .04677 | -.00052 |
| #2 | .00006 | -.00004 | .03086 | .13768 | -.00191 | .00729 | .00037 | .00015 | .06599 | -.00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00374** | **-.00005** | F **.18229** | **.00345** | W **.00759** | **.12807** | **.27408** | **-.00034** | **.00013** | **.00255** |
| Stddev | .00067 | .00078 | .00122 | .00007 | .00084 | .03351 | .07172 | .00060 | .00002 | .00018 |
| %RSD | 18.021 | 1477.1 | .66720 | 1.9063 | 11.104 | 26.167 | 26.167 | 175.70 | 12.105 | 7.0280 |
| #1 | .00326 | .00050 | .18143 | .00350 | .00699 | .15177 | .32479 | .00008 | .00012 | .00268 |
| #2 | .00422 | -.00060 | .18315 | .00341 | .00819 | .10438 | .22337 | -.00077 | .00015 | .00243 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .10000 | | .00750 | | | | | |
| Low Limit | | | -.10000 | | -.00750 | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **-.00327** | **.02221** | **-.00007** | **.00679** | **.00319** |
| Stddev | .00002 | .00048 | .03191 | .00053 | .00052 | .00068 |
| %RSD | 4.9754 | 14.693 | 143.70 | 745.75 | 7.6938 | 21.471 |
| #1 | .00038 | -.00293 | -.00036 | .00030 | .00643 | .00367 |
| #2 | .00040 | -.00360 | .04477 | -.00044 | .00716 | .00270 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7958.4** | **82909.** | **8137.0** |
| Stddev | 26.1 | 671. | 66.6 |
| %RSD | .32847 | .80905 | .81841 |
| #1 | 7939.9 | 82434. | 8089.9 |
| #2 | 7976.9 | 83383. | 8184.1 |

Sample Name: lcs 280-175399/2-a  Acquired: 5/23/2013 18:36:15  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .84167 | .92454 | .86674 | .78286 | .92294 | .86764 | -.00936 | 4.6355 | .84478 | .92017 |
| Stddev | .00119 | .00038 | .00277 | .00002 | .00026 | .00077 | .00327 | .0022 | .00165 | .00222 |
| %RSD | .14181 | .04115 | .31996 | .00286 | .02809 | .08872 | 34.915 | .04755 | .19565 | .24163 |
| #1 | .84251 | .92427 | .86478 | .78288 | .92276 | .86818 | -.01167 | 4.6340 | .84362 | .91860 |
| #2 | .84082 | .92480 | .86870 | .78285 | .92313 | .86709 | -.00705 | 4.6371 | .84595 | .92174 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .97935 | .91120 | 1.0608 | 4.6846 | -.00150 | 4.2363 | .93918 | .98948 | 4.6704 | .97427 |
| Stddev | .00222 | .00512 | .0031 | .0023 | .00214 | .0142 | .00307 | .00015 | .0091 | .00035 |
| %RSD | .22630 | .56198 | .29115 | .04918 | 142.86 | .33624 | .32698 | .01522 | .19380 | .03641 |
| #1 | .97778 | .91482 | 1.0630 | 4.6862 | .00002 | 4.2464 | .94135 | .98937 | 4.6640 | .97452 |
| #2 | .98091 | .90758 | 1.0586 | 4.6829 | -.00301 | 4.2262 | .93701 | .98958 | 4.6768 | .97402 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .70393 | .91091 | 40.683 | .85102 | .88538 | .96360 | 2.0621 | .93803 | .00646 | .00187 |
| Stddev | .00262 | .00036 | .000 | .00156 | .00040 | .01227 | .0263 | .00000 | .00001 | .00263 |
| %RSD | .37232 | .03915 | .00046 | .18312 | .04571 | 1.2733 | 1.2733 | .00010 | .17851 | 140.67 |
| #1 | .70208 | .91117 | 40.683 | .84992 | .88567 | .95493 | 2.0435 | .93803 | .00647 | .00001 |
| #2 | .70579 | .91066 | 40.683 | .85212 | .88510 | .97228 | 2.0807 | .93803 | .00645 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .91876 | W -.01378 | .02056 | .90771 | .89756 | .00245 |
| Stddev | .00218 | .00033 | .03134 | .00159 | .00294 | .00125 |
| %RSD | .23735 | 2.4089 | 152.41 | .17507 | .32717 | 51.244 |
| #1 | .92030 | -.01401 | .04272 | .90883 | .89964 | .00333 |
| #2 | .91722 | -.01354 | -.00160 | .90658 | .89549 | .00156 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8443.7 | 87484. | 8783.1 |
| Stddev | 13.0 | 615. | 8.9 |
| %RSD | .15434 | .70329 | .10117 |
| #1 | 8434.5 | 87049. | 8776.8 |
| #2 | 8452.9 | 87919. | 8789.4 |

Sample Name: 280-42210-a-1-a  Acquired: 5/23/2013 18:38:22  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.05071** | **.00470** | **.22190** | **.13943** | **.00007** | **-.01400** | **4.6207** | **.00132** | **.00025** |
| Stddev | .00037 | .00053 | .00199 | .00044 | .00004 | .00008 | .00130 | .0140 | .00016 | .00022 |
| %RSD | 117.91 | 1.0521 | 42.281 | .19921 | .02713 | 115.77 | 9.2900 | .30293 | 11.943 | 86.058 |
| #1 | -.00005 | .05033 | .00610 | .22159 | .13946 | .00013 | -.01492 | 4.6306 | .00121 | .00010 |
| #2 | -.00058 | .05109 | .00329 | .22221 | .13941 | .00001 | -.01308 | 4.6108 | .00143 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00521** | **.10855** | **.82565** | **3.6610** | **.00737** | **.62725** | **.00647** | **.06619** | **1.2891** | **.00338** |
| Stddev | .00044 | .00029 | .00037 | .0272 | .00170 | .00316 | .00008 | .00037 | .0031 | .00006 |
| %RSD | 8.3724 | .26337 | .04423 | .74384 | 23.086 | .50375 | 1.1752 | .55266 | .24195 | 1.8945 |
| #1 | .00490 | .10875 | .82591 | 3.6803 | .00857 | .62948 | .00652 | .06593 | 1.2913 | .00333 |
| #2 | .00551 | .10835 | .82539 | 3.6417 | .00617 | .62501 | .00641 | .06644 | 1.2869 | .00343 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.0976** | **.02412** | **11.950** | **.00775** | **.00958** | **.18396** | **.39367** | **.00639** | **.01107** | **.00202** |
| Stddev | .0021 | .00127 | .018 | .00276 | .00067 | .00914 | .01957 | .00045 | .00007 | .00079 |
| %RSD | .06744 | 5.2597 | .14971 | 35.561 | 6.9617 | 4.9704 | 4.9704 | 7.0562 | .63758 | 39.252 |
| #1 | 3.0961 | .02323 | 11.938 | .00580 | .01005 | .17749 | .37983 | .00607 | .01102 | .00258 |
| #2 | 3.0990 | .02502 | 11.963 | .00970 | .00911 | .19042 | .40751 | .00671 | .01112 | .00146 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00453** | **-.00720** | **.03350** | **.00026** | **1.5795** | **.00168** |
| Stddev | .00025 | .00012 | .01191 | .00039 | .0034 | .00037 |
| %RSD | 5.4575 | 1.6508 | 35.551 | 152.66 | .21714 | 21.924 |
| #1 | .00436 | -.00728 | .02508 | -.00002 | 1.5819 | .00142 |
| #2 | .00471 | -.00711 | .04192 | .00053 | 1.5771 | .00194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8435.3** | **88454.** | **8749.1** |
| Stddev | 14.5 | 229. | 21.7 |
| %RSD | .17232 | .25842 | .24823 |
| #1 | 8445.5 | 88615. | 8764.5 |
| #2 | 8425.0 | 88292. | 8733.8 |

Sample Name: 280-42210-a-1-aSD@5 Acquired: 5/23/2013 18:40:36 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00071** | **.01390** | **.00042** | **.04899** | **.02723** | **.00004** | **-.00167** | **.93858** | **.00029** | **.00015** |
| Stddev | .00029 | .00001 | .00464 | .00024 | .00016 | .00000 | .00184 | .00179 | .00002 | .00006 |
| %RSD | 41.276 | .08291 | 1095.8 | .48482 | .58313 | 3.5156 | 110.24 | .19116 | 5.9510 | 42.226 |
| #1 | -.00091 | .01391 | -.00286 | .04916 | .02734 | .00004 | -.00037 | .93731 | .00030 | .00019 |
| #2 | -.00050 | .01389 | .00371 | .04882 | .02712 | .00004 | -.00297 | .93985 | .00028 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.02243** | **.17801** | **.83458** | **.00188** | **.13738** | **.00143** | **.01251** | **.25731** | **.00074** |
| Stddev | .00005 | .00028 | .00249 | .06246 | .00106 | .00052 | .00001 | .00027 | .00753 | .00031 |
| %RSD | 5.3889 | 1.2346 | 1.3965 | 7.4842 | 56.461 | .37647 | .83077 | 2.1238 | 2.9269 | 42.227 |
| #1 | .00093 | .02223 | .17625 | .79041 | .00263 | .13775 | .00144 | .01232 | .26264 | .00052 |
| #2 | .00101 | .02262 | .17976 | .87875 | .00113 | .13702 | .00142 | .01270 | .25199 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65315** | **.00352** | **2.5657** | **.00026** | **.00329** | **.04239** | **.09072** | **.00104** | **.00228** | **.00189** |
| Stddev | .00197 | .00032 | .0018 | .00132 | .00465 | .00232 | .00496 | .00020 | .00012 | .00072 |
| %RSD | .30194 | 9.1278 | .07158 | 507.41 | 141.56 | 5.4637 | 5.4637 | 19.390 | 5.1886 | 38.327 |
| #1 | .65175 | .00329 | 2.5644 | -.00067 | .00658 | .04076 | .08722 | .00089 | .00220 | .00138 |
| #2 | .65454 | .00375 | 2.5670 | .00119 | .00000 | .04403 | .09423 | .00118 | .00236 | .00240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **-.00272** | **.01052** | **-.00003** | **.31909** | **.00201** |
| Stddev | .00043 | .00052 | .04177 | .00002 | .00153 | .00079 |
| %RSD | 54.440 | 19.136 | 397.05 | 74.728 | .48045 | 39.384 |
| #1 | .00109 | -.00308 | .04005 | -.00005 | .32017 | .00145 |
| #2 | .00048 | -.00235 | -.01901 | -.00002 | .31800 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8968.9** | **94437.** | **9162.5** |
| Stddev | 43.3 | 319. | 28.4 |
| %RSD | .48274 | .33745 | .31043 |
| #1 | 8999.5 | 94212. | 9182.6 |
| #2 | 8938.3 | 94662. | 9142.3 |

Sample Name: 280-42210-a-1-b ms  Acquired: 5/23/2013 18:42:47  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .92516 | 1.0030 | .91503 | 1.2271 | 1.1030 | .91634 | -.00252 | 11.597 | .90797 | .95736 |
| Stddev | .00577 | .0006 | .00067 | .0025 | .0051 | .00409 | .00054 | .027 | .00130 | .00105 |
| %RSD | .62371 | .06314 | .07354 | .20568 | .46067 | .44621 | 21.350 | .22931 | .14328 | .10924 |
| #1 | .92924 | 1.0035 | .91551 | 1.2288 | 1.0994 | .91345 | -.00289 | 11.578 | .90889 | .95810 |
| #2 | .92108 | 1.0026 | .91456 | 1.2253 | 1.1066 | .91923 | -.00214 | 11.616 | .90705 | .95662 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0161 | 1.0721 | 2.2289 | 11.509 | .00924 | 5.7730 | .98533 | 1.0935 | 7.0776 | 1.0200 |
| Stddev | .0008 | .0039 | .0116 | .008 | .00258 | .0236 | .00290 | .0022 | .0336 | .0014 |
| %RSD | .07995 | .36551 | .51822 | .06778 | 27.938 | .40829 | .29397 | .19794 | .47396 | .13379 |
| #1 | 1.0167 | 1.0749 | 2.2207 | 11.514 | .01106 | 5.7897 | .98738 | 1.0951 | 7.0539 | 1.0210 |
| #2 | 1.0156 | 1.0693 | 2.2370 | 11.503 | .00741 | 5.7564 | .98328 | 1.0920 | 7.1014 | 1.0190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 4.8924 | .98999 | 68.083 | .92178 | .93198 | 1.2036 | 2.5757 | .99361 | .02488 | .00087 |
| Stddev | .0023 | .00127 | .118 | .00218 | .00581 | .0085 | .0183 | .00296 | .00013 | .00064 |
| %RSD | .04708 | .12854 | .17326 | .23651 | .62356 | .70937 | .70937 | .29775 | .53407 | 73.316 |
| #1 | 4.8908 | .99089 | 68.166 | .92024 | .93608 | 1.2097 | 2.5887 | .99570 | .02479 | .00042 |
| #2 | 4.8941 | .98909 | 67.999 | .92332 | .92787 | 1.1976 | 2.5628 | .99151 | .02497 | .00133 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.5089 | W -.01214 | .04219 | .93669 | 2.5951 | -.00003 |
| Stddev | .0085 | .00241 | .02611 | .00407 | .0092 | .00003 |
| %RSD | .56403 | 19.860 | 61.881 | .43503 | .35575 | 78.488 |
| #1 | 1.5150 | -.01384 | .06065 | .93957 | 2.6016 | -.00005 |
| #2 | 1.5029 | -.01043 | .02373 | .93381 | 2.5885 | -.00002 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8658.8 | 89523. | 8990.1 |
| Stddev | .1 | 642. | 24.6 |
| %RSD | .00117 | .71757 | .27418 |
| #1 | 8658.8 | 89068. | 9007.5 |
| #2 | 8658.9 | 89977. | 8972.6 |

Sample Name: 280-42210-a-1-c msd  Acquired: 5/23/2013 18:44:54  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .88059 | 1.0076 | .86761 | 1.2026 | 1.0625 | .86633 | -.00368 | 11.486 | .87181 | .91825 |
| Stddev | .00431 | .0005 | .00182 | .0016 | .0001 | .00137 | .00140 | .003 | .00012 | .00068 |
| %RSD | .48971 | .04901 | .20949 | .13663 | .00541 | .15774 | 38.120 | .02771 | .01408 | .07438 |
| #1 | .87754 | 1.0080 | .86889 | 1.2038 | 1.0624 | .86537 | -.00269 | 11.483 | .87190 | .91777 |
| #2 | .88364 | 1.0073 | .86632 | 1.2015 | 1.0625 | .86730 | -.00467 | 11.488 | .87173 | .91873 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .96160 | 1.0393 | 2.7897 | 10.803 | .00822 | 5.4705 | .94014 | 1.0606 | 6.9314 | .97749 |
| Stddev | .00153 | .0016 | .0069 | .027 | .00210 | .0003 | .00093 | .0015 | .0006 | .00001 |
| %RSD | .15921 | .15479 | .24905 | .24704 | 25.544 | .00556 | .09925 | .14355 | .00846 | .00135 |
| #1 | .96269 | 1.0404 | 2.7848 | 10.784 | .00971 | 5.4703 | .94080 | 1.0617 | 6.9310 | .97750 |
| #2 | .96052 | 1.0381 | 2.7946 | 10.822 | .00674 | 5.4707 | .93948 | 1.0595 | 6.9318 | .97748 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 4.6788 | .95218 | 62.096 | .87949 | .89087 | 1.0648 | 2.2787 | .93893 | .02339 | .00296 |
| Stddev | .0069 | .00031 | .019 | .00257 | .00132 | .0155 | .0333 | .00063 | .00007 | .00033 |
| %RSD | .14644 | .03252 | .03055 | .29172 | .14785 | 1.4594 | 1.4594 | .06761 | .31852 | 11.256 |
| #1 | 4.6837 | .95240 | 62.083 | .88130 | .89180 | 1.0538 | 2.2552 | .93848 | .02334 | .00319 |
| #2 | 4.6740 | .95196 | 62.110 | .87767 | .88993 | 1.0758 | 2.3022 | .93937 | .02344 | .00272 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.2789 | W -.01192 | .00417 | .89324 | 2.6544 | .00131 |
| Stddev | .0063 | .00007 | .03155 | .00086 | .0026 | .00131 |
| %RSD | .49188 | .62767 | 757.38 | .09610 | .09874 | 99.836 |
| #1 | 1.2833 | -.01197 | .02647 | .89385 | 2.6563 | .00039 |
| #2 | 1.2744 | -.01186 | -.01814 | .89263 | 2.6526 | .00224 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8736.2 | 90556. | 9033.7 |
| Stddev | 5.2 | 1. | 32.7 |
| %RSD | .05906 | .00139 | .36192 |
| #1 | 8739.9 | 90555. | 9056.8 |
| #2 | 8732.6 | 90557. | 9010.6 |

Sample Name: 280-42215-a-1-a  Acquired: 5/23/2013 18:47:01  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 1.0756 | .01887 | 1.5847 | -.00843 | .16690 | .32668 | -.01406 | .10637 | .46290 | W 1.3561 |
| Stddev | .0039 | .00063 | .0010 | .00018 | .00089 | .00193 | .00390 | .00260 | .00023 | .0014 |
| %RSD | .35849 | 3.3576 | .06154 | 2.0962 | .53280 | .58987 | 27.758 | 2.4444 | .04930 | .10080 |
| #1 | 1.0784 | .01842 | 1.5840 | -.00855 | .16627 | .32532 | -.01130 | .10453 | .46273 | 1.3551 |
| #2 | 1.0729 | .01932 | 1.5854 | -.00830 | .16752 | .32805 | -.01682 | .10821 | .46306 | 1.3571 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | | | | | 1.0000 |
| Low Limit | -.01000 | | | | | | | | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .91613 | .69293 | 3.0965 | 34.391 | .00161 | .30831 | 1.1049 | .71797 | 5.0988 | 1.6409 |
| Stddev | .00296 | .00332 | .0243 | .393 | .00016 | .00123 | .0052 | .00162 | .0302 | .0070 |
| %RSD | .32325 | .47981 | .78560 | 1.1414 | 10.175 | .39913 | .46842 | .22622 | .59257 | .42950 |
| #1 | .91403 | .69528 | 3.0793 | 34.114 | .00149 | .30918 | 1.1085 | .71682 | 5.0774 | 1.6359 |
| #2 | .91822 | .69057 | 3.1137 | 34.669 | .00172 | .30744 | 1.1012 | .71912 | 5.1202 | 1.6459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .00808 | .72115 | 14.401 | 1.1258 | .99915 | .07093 | .15179 | .50844 | .00437 | .00288 |
| Stddev | .00239 | .00073 | .021 | .0044 | .00058 | .00593 | .01270 | .00161 | .00010 | .00108 |
| %RSD | 29.537 | .10079 | .14382 | .38722 | .05796 | 8.3668 | 8.3668 | .31658 | 2.2366 | 37.692 |
| #1 | .00639 | .72167 | 14.387 | 1.1289 | .99874 | .07513 | .16077 | .50730 | .00430 | .00211 |
| #2 | .00976 | .72064 | 14.416 | 1.1227 | .99956 | .06673 | .14281 | .50958 | .00444 | .00365 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .00279 | 1.6002 | -.00219 | 1.6460 | 2.2744 | .00171 |
| Stddev | .00026 | .0016 | .00572 | .0109 | .0102 | .00181 |
| %RSD | 9.4754 | .10087 | 261.48 | .66011 | .44706 | 106.13 |
| #1 | .00261 | 1.5991 | -.00623 | 1.6537 | 2.2816 | .00043 |
| #2 | .00298 | 1.6014 | .00186 | 1.6384 | 2.2672 | .00299 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8294.8 | 86280. | 8640.3 |
| Stddev | 11.2 | 866. | 9.0 |
| %RSD | .13509 | 1.0035 | .10403 |
| #1 | 8286.8 | 85668. | 8646.7 |
| #2 | 8302.7 | 86892. | 8634.0 |

Sample Name: 280-42201-a-1-e  Acquired: 5/23/2013 18:49:10  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.02848** | **-.00002** | **.00505** | **.00060** | **.00009** | **-.01377** | **.08891** | **.00331** | **.00116** |
| Stddev | .00007 | .00025 | .00097 | .00104 | .00005 | .00005 | .00302 | .00242 | .00064 | .00190 |
| %RSD | 12.226 | .86779 | 5835.6 | 20.675 | 7.8663 | 54.428 | 21.919 | 2.7268 | 19.346 | 163.03 |
| #1 | -.00063 | .02865 | -.00070 | .00579 | .00064 | .00013 | -.01590 | .08720 | .00285 | -.00018 |
| #2 | -.00053 | .02830 | .00067 | .00431 | .00057 | .00006 | -.01163 | .09063 | .00376 | .00251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00241** | **.00077** | **.11068** | **.20129** | **-.00049** | **.01014** | **.00088** | **.00168** | **.37836** | **.00327** |
| Stddev | .00164 | .00025 | .00194 | .02156 | .00042 | .00103 | .00002 | .00107 | .00206 | .00235 |
| %RSD | 67.950 | 32.840 | 1.7540 | 10.712 | 85.125 | 10.126 | 2.0215 | 63.352 | .54358 | 71.940 |
| #1 | .00125 | .00059 | .11205 | .18605 | -.00020 | .00942 | .00089 | .00093 | .37691 | .00161 |
| #2 | .00356 | .00094 | .10931 | .21654 | -.00079 | .01087 | .00087 | .00244 | .37981 | .00493 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00628** | **.00541** | **1.0153** | **.01256** | **.00743** | **.06679** | **.14292** | **.35623** | **.00020** | **.00285** |
| Stddev | .00094 | .00220 | .0100 | .00429 | .00010 | .00636 | .01362 | .00005 | .00010 | .00030 |
| %RSD | 15.048 | 40.654 | .98005 | 34.190 | 1.3354 | 9.5276 | 9.5276 | .01404 | 51.332 | 10.479 |
| #1 | .00695 | .00386 | 1.0082 | .00952 | .00750 | .07129 | .15255 | .35627 | .00028 | .00307 |
| #2 | .00561 | .00697 | 1.0223 | .01559 | .00736 | .06229 | .13329 | .35620 | .00013 | .00264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **-.00125** | **.03485** | **-.00004** | **.01188** | **.00139** |
| Stddev | .00002 | .00263 | .01640 | .00011 | .00022 | .00054 |
| %RSD | 5.0773 | 209.98 | 47.057 | 291.39 | 1.8589 | 38.830 |
| #1 | .00047 | -.00311 | .02325 | .00004 | .01204 | .00101 |
| #2 | .00051 | .00061 | .04644 | -.00012 | .01173 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8454.4** | **88918.** | **8726.6** |
| Stddev | 21.8 | 337. | 68.4 |
| %RSD | .25809 | .37884 | .78405 |
| #1 | 8439.0 | 89156. | 8678.2 |
| #2 | 8469.8 | 88680. | 8774.9 |

Sample Name: 280-42384-a-1-e  Acquired: 5/23/2013 18:51:22  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175399 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00080** | **.04746** | **-.00109** | **.44417** | **.00605** | **.00006** | **-.01273** | **24.096** | **.00197** | **-.00021** |
| Stddev | .00106 | .00001 | .00125 | .00037 | .00004 | .00008 | .00013 | .049 | .00010 | .00013 |
| %RSD | 132.44 | .01607 | 114.64 | .08300 | .74065 | 132.96 | 1.0292 | .20396 | 4.8334 | 62.616 |
| #1 | -.00155 | .04747 | -.00198 | .44443 | .00608 | .00012 | -.01282 | 24.131 | .00204 | -.00030 |
| #2 | -.00005 | .04746 | -.00021 | .44391 | .00602 | .00000 | -.01263 | 24.061 | .00191 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00627** | **.09151** | **.30091** | **.28915** | **.00280** | **.43499** | **.00918** | **.19604** | **.42331** | **.00547** |
| Stddev | .00021 | .00058 | .00153 | .02200 | .00151 | .00150 | .00005 | .00039 | .00515 | .00015 |
| %RSD | 3.3631 | .63727 | .50933 | 7.6075 | 54.103 | .34526 | .51343 | .19911 | 1.2173 | 2.8049 |
| #1 | .00641 | .09192 | .29982 | .30471 | .00173 | .43605 | .00915 | .19576 | .42695 | .00536 |
| #2 | .00612 | .09109 | .30199 | .27360 | .00387 | .43392 | .00922 | .19632 | .41967 | .00558 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.0132** | **.01789** | **26.120** | **.00567** | **.00575** | **.16423** | **.35145** | **.00561** | **.01200** | **.00150** |
| Stddev | .0007 | .00066 | .036 | .00089 | .00055 | .00615 | .01316 | .00090 | .00004 | .00209 |
| %RSD | .00748 | 3.7046 | .13761 | 15.737 | 9.4982 | 3.7444 | 3.7444 | 16.041 | .31475 | 138.72 |
| #1 | 9.0137 | .01742 | 26.146 | .00504 | .00614 | .15988 | .34215 | .00625 | .01197 | .00003 |
| #2 | 9.0127 | .01836 | 26.095 | .00630 | .00537 | .16858 | .36076 | .00497 | .01202 | .00298 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00511** | **-.00353** | **-.00096** | **.00025** | W **10.389** | **.00101** |
| Stddev | .00025 | .00027 | .02027 | .00015 | .019 | .00295 |
| %RSD | 4.9098 | 7.6250 | 2106.6 | 63.198 | .17986 | 290.95 |
| #1 | .00494 | -.00334 | .01337 | .00014 | 10.375 | .00310 |
| #2 | .00529 | -.00372 | -.01530 | .00035 | 10.402 | -.00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 10.000 | |
| Low Limit | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8709.5** | **91709.** | **8968.6** |
| Stddev | 26.8 | 87. | 13.3 |
| %RSD | .30775 | .09446 | .14838 |
| #1 | 8728.5 | 91770. | 8978.0 |
| #2 | 8690.6 | 91648. | 8959.2 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 18:53:37 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00095** | **49.490** | **.00132** | **.00207** | **-.00002** | **.00006** | W **1.0531** | **-.00457** | **.00047** | **.00021** | **.00011** | **-.00057** |
| Stddev | .00123 | .105 | .00009 | .00037 | .00008 | .00006 | .0028 | .00064 | .00006 | .00010 | .00004 | .00054 |
| %RSD | 129.52 | .21222 | 6.8435 | 17.876 | 451.13 | 95.992 | .26860 | 13.965 | 13.215 | 46.072 | 39.653 | 95.942 |
| #1 | -.00008 | 49.565 | .00126 | .00233 | -.00008 | .00002 | 1.0511 | -.00412 | .00043 | .00028 | .00008 | -.00018 |
| #2 | -.00181 | 49.416 | .00139 | .00181 | .00004 | .00011 | 1.0551 | -.00502 | .00051 | .00014 | .00014 | -.00095 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.786** | **.21827** | **.00306** | **.04145** | **.00003** | **-.00032** | **257.85** | **.00087** | **.00314** | **-.00324** | **5.0191** | **-.00199** |
| Stddev | .022 | .00196 | .00025 | .00279 | .00009 | .00006 | .30 | .00010 | .00027 | .00032 | .0008 | .00179 |
| %RSD | .04283 | .90025 | 8.0345 | 6.7237 | 274.10 | 17.251 | .11659 | 11.926 | 8.5019 | 9.9159 | .01576 | 89.698 |
| #1 | 50.801 | .21688 | .00324 | .04342 | .00009 | -.00028 | 257.64 | .00080 | .00295 | -.00347 | 5.0185 | -.00326 |
| #2 | 50.770 | .21966 | .00289 | .03948 | -.00003 | -.00036 | 258.06 | .00094 | .00333 | -.00301 | 5.0197 | -.00073 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00498** | **.00784** | **.01678** | **-.00035** | **.00041** | **4.9531** | **.00218** | **.00078** | W **10.571** | **-.00020** | **.00110** | **.00142** |
| Stddev | .00135 | .01677 | .03588 | .00012 | .00010 | .0011 | .00002 | .00055 | .013 | .00049 | .00018 | .00271 |
| %RSD | 27.031 | 213.84 | 213.84 | 34.504 | 24.843 | .02266 | .88148 | 70.943 | .12304 | 245.46 | 16.341 | 190.86 |
| #1 | .00402 | -.00401 | -.00859 | -.00026 | .00034 | 4.9539 | .00216 | .00117 | 10.580 | .00015 | .00097 | -.00050 |
| #2 | .00593 | .01969 | .04215 | -.00043 | .00048 | 4.9523 | .00219 | .00039 | 10.562 | -.00054 | .00123 | .00334 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8448.2** | **85589.** | **8913.8** |
| Stddev | 34.7 | 119. | 18.9 |
| %RSD | .41037 | .13907 | .21234 |
| #1 | 8472.7 | 85673. | 8900.4 |
| #2 | 8423.7 | 85504. | 8927.2 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 18:55:58 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53632** | **.53054** | **1.0504** | **.53085** | **.51274** | **.49455** | **.00243** | **5.0713** | **.51201** | **.51949** | **.53195** | **.52392** | **2.4865** | **50.325** |
| Stddev | .00027 | .00070 | .0050 | .00155 | .00063 | .00108 | .00011 | .0220 | .00077 | .00047 | .00008 | .00011 | .0039 | .078 |
| %RSD | .05101 | .13103 | .47443 | .29270 | .12373 | .21824 | 4.3340 | .43461 | .15009 | .09009 | .01532 | .02064 | .15779 | .15415 |
| #1 | .53652 | .53005 | 1.0469 | .52976 | .51319 | .49378 | .00236 | 5.0557 | .51146 | .51916 | .53189 | .52399 | 2.4893 | 50.270 |
| #2 | .53613 | .53103 | 1.0540 | .53195 | .51230 | .49531 | .00251 | 5.0868 | .51255 | .51982 | .53201 | .52384 | 2.4837 | 50.380 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99688** | **20.587** | **.50898** | **.52609** | **5.0401** | **.53547** | **1.0471** | **1.0248** | **.00882** | **1.0359** | **1.0656** | **5.2711** | **11.280** | **1.0515** |
| Stddev | .00140 | .004 | .00015 | .00057 | .0014 | .00115 | .0010 | .0019 | .00078 | .0015 | .0025 | .0210 | .045 | .0014 |
| %RSD | .14065 | .02138 | .02878 | .10776 | .02739 | .21433 | .09651 | .18132 | 8.8874 | .14195 | .23209 | .39935 | .39935 | .12842 |
| #1 | .99787 | 20.590 | .50908 | .52569 | 5.0411 | .53465 | 1.0464 | 1.0235 | .00938 | 1.0348 | 1.0639 | 5.2860 | 11.312 | 1.0506 |
| #2 | .99589 | 20.584 | .50888 | .52649 | 5.0392 | .53628 | 1.0478 | 1.0261 | .00827 | 1.0369 | 1.0674 | 5.2563 | 11.248 | 1.0525 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51080** | **.00201** | **.51617** | **1.0512** | **.01462** | **.49777** | **.51948** | **.51411** |
| Stddev | .00030 | .00107 | .00101 | .0058 | .03063 | .00041 | .00231 | .00438 |
| %RSD | .05925 | 53.284 | .19473 | .55028 | 209.55 | .08275 | .44449 | .85194 |
| #1 | .51059 | .00277 | .51546 | 1.0471 | -.00704 | .49806 | .52111 | .51721 |
| #2 | .51102 | .00125 | .51688 | 1.0553 | .03628 | .49748 | .51785 | .51101 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8571.4** | **87051.** | **8800.3** |
| Stddev | 5.9 | 271. | 16.3 |
| %RSD | .06833 | .31135 | .18471 |
| #1 | 8575.5 | 87242. | 8788.8 |
| #2 | 8567.2 | 86859. | 8811.8 |

Sample Name: CCB Acquired: 5/23/2013 18:58:04 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.00026** | **-.00097** | **.00018** | **-.00041** | **.00000** | **.00020** | **.00183** | **.00009** | **.00006** | **.00023** | **-.00043** | **.00045** |
| Stddev | .00011 | .00011 | .00213 | .00000 | .00029 | .00003 | .00018 | .00384 | .00009 | .00009 | .00004 | .00001 | .00151 |
| %RSD | 23.351 | 40.899 | 219.89 | 1.3173 | 70.239 | 1111.1 | 89.201 | 209.39 | 105.43 | 147.19 | 15.958 | 1.5456 | 336.97 |
| #1 | -.00053 | .00018 | .00054 | .00018 | -.00062 | .00002 | .00007 | .00455 | .00002 | .00000 | .00021 | -.00043 | .00151 |
| #2 | -.00038 | .00033 | -.00248 | .00018 | -.00021 | -.00002 | .00033 | -.00088 | .00015 | .00012 | .00026 | -.00042 | -.00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17324** | **.00219** | **.00130** | **.00002** | **.00033** | **.00720** | **-.00025** | **-.00069** | **-.00196** | **.00746** | **.00206** | **.00273** | **.01056** |
| Stddev | .02928 | .00074 | .00223 | .00002 | .00019 | .00635 | .00019 | .00037 | .00149 | .00144 | .00108 | .00449 | .01434 |
| %RSD | 16.903 | 33.762 | 170.96 | 135.05 | 57.923 | 88.143 | 73.969 | 53.441 | 75.916 | 19.269 | 52.212 | 164.47 | 135.71 |
| #1 | .15253 | .00272 | .00288 | .00003 | .00019 | .00271 | -.00038 | -.00043 | -.00091 | .00645 | .00130 | .00591 | .00043 |
| #2 | .19395 | .00167 | -.00027 | .00000 | .00046 | .01169 | -.00012 | -.00095 | -.00301 | .00848 | .00283 | -.00045 | .02070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02261** | **-.00018** | **-.00001** | **-.00031** | **-.00043** | **.00143** | **.04140** | **.00072** | **.00254** | **.00058** |
| Stddev | .03068 | .00002 | .00003 | .00195 | .00016 | .00164 | .00909 | .00006 | .00010 | .00006 |
| %RSD | 135.71 | 12.695 | 434.79 | 625.90 | 37.130 | 114.18 | 21.959 | 7.8511 | 4.0322 | 10.564 |
| #1 | .00091 | -.00017 | -.00003 | -.00169 | -.00054 | .00028 | .04783 | .00068 | .00261 | .00062 |
| #2 | .04430 | -.00020 | .00002 | .00107 | -.00032 | .00259 | .03497 | .00076 | .00247 | .00054 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8632.3** | **90344.** | **8737.8** |
| Stddev | 73.7 | 620. | 40.6 |
| %RSD | .85434 | .68597 | .46491 |
| #1 | 8684.5 | 90782. | 8766.5 |
| #2 | 8580.2 | 89905. | 8709.0 |

Sample Name: CCVL2067279 Acquired: 5/23/2013 19:00:18 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01015** | **.10796** | **.01303** | **.10711** | **.00993** | **.00103** | **.12081** | **.20628** | **.00508** | **.01069** | **.01063** | **.01557** | **.09944** |
| Stddev | .00033 | .00017 | .00104 | .00010 | .00038 | .00003 | .00401 | .00001 | .00005 | .00009 | .00006 | .00016 | .00080 |
| %RSD | 3.2992 | .15499 | 7.9677 | .09035 | 3.8688 | 2.4405 | 3.3206 | .00618 | 1.0141 | .86901 | .56693 | 1.0034 | .80591 |
| #1 | .01039 | .10784 | .01377 | .10705 | .00966 | .00101 | .11797 | .20629 | .00504 | .01062 | .01058 | .01546 | .09887 |
| #2 | .00991 | .10808 | .01230 | .10718 | .01020 | .00105 | .12364 | .20627 | .00512 | .01076 | .01067 | .01568 | .10001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1536** | **.01206** | **.21449** | **.01026** | **.02112** | **1.0469** | **.04341** | **3.0580** | **.00812** | **.00451** | **.01121** | **.01774** | **.55339** |
| Stddev | .0049 | .00144 | .00306 | .00000 | .00012 | .0059 | .00001 | .0035 | .00051 | .00143 | .00005 | .00303 | .00606 |
| %RSD | .15597 | 11.935 | 1.4283 | .03301 | .57877 | .56215 | .03127 | .11315 | 6.3050 | 31.710 | .42295 | 17.106 | 1.0945 |
| #1 | 3.1571 | .01307 | .21233 | .01026 | .02103 | 1.0427 | .04340 | 3.0604 | .00848 | .00552 | .01125 | .01559 | .54911 |
| #2 | 3.1502 | .01104 | .21666 | .01026 | .02121 | 1.0510 | .04342 | 3.0555 | .00776 | .00350 | .01118 | .01988 | .55768 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1843** | **.10783** | **.01019** | **.01639** | **.00990** | **.01701** | F **.08893** | **.00965** | **.02283** | **.01726** |
| Stddev | .0130 | .00006 | .00009 | .00229 | .00001 | .00046 | .01373 | .00019 | .00041 | .00007 |
| %RSD | 1.0945 | .05468 | .86768 | 13.975 | .09887 | 2.7085 | 15.442 | 1.9703 | 1.7821 | .38688 |
| #1 | 1.1751 | .10779 | .01026 | .01477 | .00989 | .01734 | .07922 | .00979 | .02254 | .01721 |
| #2 | 1.1934 | .10787 | .01013 | .01801 | .00990 | .01669 | .09864 | .00952 | .02312 | .01730 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8638.4** | **89683.** | **8687.5** |
| Stddev | 17.1 | 485. | 22.2 |
| %RSD | .19790 | .54074 | .25542 |
| #1 | 8626.3 | 89340. | 8703.2 |
| #2 | 8650.5 | 90026. | 8671.8 |

Sample Name: mb 280-175481/1-a  Acquired: 5/23/2013 19:02:35  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175481 SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00096** | **.00504** | **-.00106** | **.00011** | **-.00004** | **.00004** | **-.00099** | W **.11546** | **.00014** | **.00004** |
| Stddev | .00035 | .00017 | .00066 | .00012 | .00015 | .00006 | .00108 | .00053 | .00034 | .00002 |
| %RSD | 36.416 | 3.4114 | 61.835 | 111.19 | 362.16 | 175.13 | 109.08 | .46251 | 236.97 | 52.969 |
| #1 | -.00121 | .00491 | -.00153 | .00019 | -.00015 | .00008 | -.00176 | .11508 | -.00010 | .00003 |
| #2 | -.00072 | .00516 | -.00060 | .00002 | .00006 | -.00001 | -.00023 | .11584 | .00038 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00069** | **.00807** | **.17368** | **.00229** | **.00941** | **.00017** | **.00001** | **.24276** | **.00211** |
| Stddev | .00003 | .00009 | .00082 | .02582 | .00114 | .00099 | .00001 | .00005 | .00044 | .00009 |
| %RSD | 15.082 | 12.324 | 10.147 | 14.868 | 49.904 | 10.501 | 4.1103 | 976.59 | .18289 | 4.2290 |
| #1 | .00023 | .00063 | .00749 | .15542 | .00310 | .00871 | .00018 | -.00003 | .24307 | .00217 |
| #2 | .00018 | .00075 | .00865 | .19194 | .00148 | .01011 | .00017 | .00004 | .24244 | .00205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11628** | **-.00182** | **.04099** | **.00139** | **.00184** | **.03212** | **.06874** | **.00783** | **.00011** | **.00121** |
| Stddev | .00054 | .00050 | .00134 | .00110 | .00026 | .02425 | .05191 | .00011 | .00001 | .00076 |
| %RSD | .46193 | 27.391 | 3.2682 | 79.673 | 14.329 | 75.514 | 75.514 | 1.3444 | 6.1837 | 62.958 |
| #1 | .11666 | -.00147 | .04194 | .00217 | .00202 | .01497 | .03203 | .00775 | .00011 | .00067 |
| #2 | .11591 | -.00217 | .04004 | .00061 | .00165 | .04927 | .10544 | .00790 | .00010 | .00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **-.00035** | **.01822** | **.00023** | **.00354** | **.00097** |
| Stddev | .00002 | .00064 | .02899 | .00002 | .00025 | .00155 |
| %RSD | 3.5167 | 182.53 | 159.07 | 6.8137 | 7.0486 | 160.57 |
| #1 | -.00059 | -.00080 | -.00227 | .00022 | .00336 | -.00013 |
| #2 | -.00062 | .00010 | .03872 | .00024 | .00372 | .00206 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8709.4** | **90236.** | **8806.9** |
| Stddev | 8.4 | 76. | 36.0 |
| %RSD | .09601 | .08464 | .40872 |
| #1 | 8703.5 | 90182. | 8832.3 |
| #2 | 8715.3 | 90290. | 8781.4 |

Sample Name: lcs 280-175481/2-a Acquired: 5/23/2013 19:04:48 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175481 SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F .05091 | F 1.9579 | F 1.0139 | F 1.0005 | F 1.9880 | F .04811 | 2.1919 | F 48.759 | F .09970 | F .48988 |
| Stddev | .00033 | .0000 | .0009 | .0000 | .0009 | .00002 | .0049 | .012 | .00002 | .00033 |
| %RSD | .65275 | .00201 | .08732 | .00381 | .04329 | .05150 | .22363 | .02398 | .02500 | .06659 |
| #1 | .05115 | 1.9579 | 1.0133 | 1.0005 | 1.9886 | .04813 | 2.1954 | 48.767 | .09968 | .48965 |
| #2 | .05068 | 1.9580 | 1.0145 | 1.0005 | 1.9874 | .04809 | 2.1885 | 48.750 | .09971 | .49012 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | None | Chk Fail | Chk Fail | Chk Fail |
| High Limit | .25200 | .43200 | .95200 | .22000 | 2.6400 | .01120 | | 11.000 | .26400 | .11000 |
| Low Limit | .16800 | .34400 | .71200 | .17800 | 2.1360 | .00800 | | 8.9000 | .17600 | .08900 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F .20452 | F .25159 | F .97476 | F 48.905 | F .95727 | F 48.799 | F .48477 | F 1.0249 | F 52.393 | F .50489 |
| Stddev | .00008 | .00002 | .00055 | .019 | .00108 | .040 | .00028 | .0001 | .212 | .00047 |
| %RSD | .03944 | .00626 | .05683 | .03839 | .11261 | .08134 | .05788 | .00638 | .40428 | .09307 |
| #1 | .20446 | .25161 | .97515 | 48.918 | .95804 | 48.827 | .48497 | 1.0250 | 52.243 | .50523 |
| #2 | .20458 | .25158 | .97436 | 48.891 | .95651 | 48.771 | .48457 | 1.0249 | 52.542 | .50456 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail |
| High Limit | 1.2050 | .54000 | .22800 | 11.000 | .22800 | 11.300 | .11000 | .22000 | 11.200 | .11100 |
| Low Limit | .79500 | .36000 | .17600 | 8.9000 | .17800 | 9.2000 | .09000 | .18000 | 9.1000 | .08900 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 10.402 | F .48458 | 2.0948 | F .52034 | F 2.0411 | F .82116 | F 1.7573 | F 2.0099 | F .98974 | .99026 |
| Stddev | .010 | .00135 | .0048 | .00065 | .0070 | .02074 | .0444 | .0006 | .00040 | .00175 |
| %RSD | .09154 | .27770 | .22812 | .12575 | .34098 | 2.5259 | 2.5259 | .02713 | .04078 | .17697 |
| #1 | 10.409 | .48553 | 2.0982 | .52080 | 2.0460 | .83583 | 1.7887 | 2.0095 | .99003 | .98902 |
| #2 | 10.395 | .48363 | 2.0914 | .51987 | 2.0361 | .80650 | 1.7259 | 2.0103 | .98946 | .99150 |
| Check ? | Chk Fail | Chk Fail | None | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Pass |
| High Limit | 2.2200 | 1.1550 | | .10800 | .72000 | 2.3000 | 4.9220 | .45200 | .22000 | |
| Low Limit | 1.8200 | .99000 | | .08800 | .52200 | 1.8800 | 4.0200 | .34000 | .18200 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 1.0091 | F 1.9335 | F 2.2075 | F .48515 | .49319 | F .49927 |
| Stddev | .0010 | .0051 | .0142 | .00064 | .00253 | .00240 |
| %RSD | .09910 | .26326 | .64283 | .13280 | .51309 | .47973 |
| #1 | 1.0098 | 1.9371 | 2.1975 | .48469 | .49498 | .50096 |
| #2 | 1.0084 | 1.9299 | 2.2176 | .48561 | .49140 | .49757 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Fail |
| High Limit | .27000 | .43200 | .46400 | .11200 | | .12500 |
| Low Limit | .18000 | .35200 | .34000 | .08800 | | .07500 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8292.7 | 84279. | 8608.2 |
| Stddev | 24.5 | 321. | 10.6 |
| %RSD | .29509 | .38079 | .12322 |
| #1 | 8310.0 | 84052. | 8615.7 |
| #2 | 8275.4 | 84506. | 8600.7 |

Sample Name: 280-42337-a-1-c  Acquired: 5/23/2013 19:06:53  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175481 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00107** | **60.406** | **.22112** | **.52942** | **1.1380** | **.02793** | **-.00108** | W **654.39** | **.00166** | **.06432** |
| Stddev | .00030 | .387 | .00011 | .00066 | .0069 | .00019 | .00058 | .62 | .00009 | .00010 |
| %RSD | 27.949 | .64104 | .04831 | .12389 | .60560 | .68235 | 53.802 | .09456 | 5.6178 | .15168 |
| #1 | -.00128 | 60.132 | .22105 | .52895 | 1.1331 | .02780 | -.00067 | 654.83 | .00172 | .06439 |
| #2 | -.00086 | 60.680 | .22120 | .52988 | 1.1428 | .02807 | -.00149 | 653.96 | .00159 | .06425 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12199** | **.26680** | **35.022** | **17.838** | **.14296** | **15.612** | **.26915** | **.05607** | **112.60** | **.13366** |
| Stddev | .00000 | .00198 | .204 | .052 | .00118 | .093 | .00109 | .00031 | .65 | .00034 |
| %RSD | .00167 | .74258 | .58220 | .29400 | .82460 | .59686 | .40615 | .54782 | .57300 | .25435 |
| #1 | .12198 | .26820 | 34.877 | 17.801 | .14212 | 15.678 | .26992 | .05629 | 112.14 | .13341 |
| #2 | .12199 | .26540 | 35.166 | 17.875 | .14379 | 15.546 | .26838 | .05585 | 113.06 | .13390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0299** | **.08857** | F **327.71** | **.00908** | **.17425** | **2.8982** | **6.2021** | **.01657** | **1.5035** | **.02486** |
| Stddev | .0018 | .00142 | .40 | .00332 | .00281 | .0745 | .1594 | .00067 | .0110 | .00098 |
| %RSD | .17085 | 1.6025 | .12222 | 36.516 | 1.6141 | 2.5702 | 2.5702 | 4.0441 | .73219 | 3.9452 |
| #1 | 1.0287 | .08757 | 327.43 | .00674 | .17624 | 2.9509 | 6.3148 | .01705 | 1.4957 | .02417 |
| #2 | 1.0312 | .08958 | 328.00 | .01143 | .17226 | 2.8455 | 6.0894 | .01610 | 1.5113 | .02555 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4477** | **.00552** | W **-.07804** | **.34336** | **.18950** | **.06667** |
| Stddev | .0202 | .00082 | .02774 | .00093 | .00214 | .00044 |
| %RSD | .82539 | 14.847 | 35.541 | .27069 | 1.1310 | .65856 |
| #1 | 2.4620 | .00494 | -.05843 | .34402 | .19101 | .06636 |
| #2 | 2.4334 | .00610 | -.09765 | .34270 | .18798 | .06698 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8582.8** | **87755.** | **9584.3** |
| Stddev | 4.9 | 209. | 2.0 |
| %RSD | .05685 | .23849 | .02055 |
| #1 | 8579.3 | 87607. | 9582.9 |
| #2 | 8586.2 | 87903. | 9585.7 |

Sample Name: 280-42337-a-1-cSD@5 Acquired: 5/23/2013 19:09:07 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175481 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00143** | **13.234** | **.04621** | **.11741** | **.24691** | **.00605** | **-.00441** | **150.93** | **.00031** | **.01491** |
| Stddev | .00030 | .019 | .00067 | .00033 | .00011 | .00006 | .00038 | .79 | .00002 | .00022 |
| %RSD | 20.946 | .14091 | 1.4450 | .28017 | .04495 | .92444 | 8.7312 | .52094 | 6.9719 | 1.4571 |
| #1 | -.00164 | 13.247 | .04668 | .11764 | .24683 | .00601 | -.00468 | 150.38 | .00030 | .01506 |
| #2 | -.00122 | 13.221 | .04574 | .11717 | .24699 | .00609 | -.00414 | 151.49 | .00033 | .01476 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02710** | **.05872** | **7.7734** | **3.9172** | **.03104** | **3.5695** | **.05940** | **.01213** | **24.303** | **.03018** |
| Stddev | .00004 | .00040 | .0041 | .0244 | .00058 | .0108 | .00002 | .00007 | .415 | .00014 |
| %RSD | .13188 | .68478 | .05232 | .62166 | 1.8716 | .30168 | .03702 | .58186 | 1.7083 | .46181 |
| #1 | .02708 | .05900 | 7.7705 | 3.9344 | .03145 | 3.5619 | .05938 | .01208 | 24.596 | .03028 |
| #2 | .02713 | .05843 | 7.7762 | 3.9000 | .03063 | 3.5771 | .05941 | .01218 | 24.009 | .03008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21873** | **.01937** | **70.172** | **.00180** | **.04043** | **.67521** | **1.4450** | **.00249** | **.32659** | **.00752** |
| Stddev | .00131 | .00073 | .097 | .00190 | .00307 | .03279 | .0702 | .00041 | .00100 | .00123 |
| %RSD | .59715 | 3.7819 | .13798 | 106.00 | 7.5966 | 4.8569 | 4.8569 | 16.266 | .30487 | 16.304 |
| #1 | .21965 | .01886 | 70.240 | .00314 | .03826 | .69840 | 1.4946 | .00221 | .32589 | .00666 |
| #2 | .21781 | .01989 | 70.103 | .00045 | .04260 | .65202 | 1.3953 | .00278 | .32730 | .00839 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52236** | **.00168** | **-.03555** | **.07422** | **.04475** | **.01433** |
| Stddev | .00171 | .00005 | .04961 | .00090 | .00015 | .00188 |
| %RSD | .32820 | 3.1756 | 139.55 | 1.2140 | .33471 | 13.152 |
| #1 | .52115 | .00172 | -.00047 | .07359 | .04464 | .01566 |
| #2 | .52357 | .00164 | -.07064 | .07486 | .04485 | .01300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8322.2** | **84434.** | **8577.6** |
| Stddev | 3.1 | 203. | 18.6 |
| %RSD | .03742 | .24035 | .21728 |
| #1 | 8320.0 | 84578. | 8590.7 |
| #2 | 8324.4 | 84291. | 8564.4 |

Sample Name: 280-42337-a-1-d ms  Acquired: 5/23/2013 19:11:26  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175481 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03835** | **73.534** | **.95166** | **1.1671** | **2.5289** | **.06207** | F **1.5843** | W **588.32** | **.07577** | **.41150** |
| Stddev | .00024 | .018 | .00334 | .0030 | .0001 | .00013 | .0070 | 1.47 | .00038 | .00127 |
| %RSD | .63469 | .02384 | .35127 | .25353 | .00500 | .21720 | .43937 | .24945 | .49686 | .30798 |
| #1 | .03818 | 73.547 | .94930 | 1.1651 | 2.5290 | .06217 | 1.5794 | 589.36 | .07551 | .41060 |
| #2 | .03852 | 73.522 | .95402 | 1.1692 | 2.5288 | .06198 | 1.5893 | 587.28 | .07604 | .41240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | 500.00 | | |
| Low Limit | | | | | | | -.10000 | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28972** | **.42211** | **37.091** | **54.682** | **.84923** | **48.591** | **.63514** | **.78260** | **132.31** | **.49577** |
| Stddev | .00061 | .00137 | .019 | .047 | .00105 | .110 | .00059 | .00256 | .36 | .00117 |
| %RSD | .21082 | .32467 | .05032 | .08621 | .12417 | .22619 | .09222 | .32652 | .27346 | .23558 |
| #1 | .28929 | .42308 | 37.104 | 54.716 | .84998 | 48.513 | .63472 | .78079 | 132.57 | .49494 |
| #2 | .29015 | .42114 | 37.078 | 54.649 | .84849 | 48.669 | .63555 | .78441 | 132.06 | .49659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.4387** | **.41994** | F **253.77** | **.35426** | **1.6709** | **5.9072** | **12.641** | **1.4476** | **2.0519** | **.75958** |
| Stddev | .0327 | .00246 | .64 | .00032 | .0061 | .0884 | .189 | .0001 | .0016 | .00007 |
| %RSD | .38752 | .58473 | .25400 | .09065 | .36608 | 1.4958 | 1.4958 | .00574 | .07866 | .00933 |
| #1 | 8.4156 | .42168 | 253.32 | .35449 | 1.6666 | 5.8448 | 12.508 | 1.4476 | 2.0530 | .75963 |
| #2 | 8.4618 | .41820 | 254.23 | .35404 | 1.6752 | 5.9697 | 12.775 | 1.4475 | 2.0507 | .75953 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.7282** | **1.2927** | **1.5045** | **.67587** | **.52667** | **.46015** |
| Stddev | .0137 | .0023 | .0049 | .00167 | .00061 | .00047 |
| %RSD | .36826 | .18039 | .32764 | .24728 | .11652 | .10219 |
| #1 | 3.7379 | 1.2944 | 1.5010 | .67469 | .52624 | .45982 |
| #2 | 3.7185 | 1.2911 | 1.5079 | .67705 | .52710 | .46048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8496.3** | **85397.** | **9134.3** |
| Stddev | 9.3 | 665. | 5.7 |
| %RSD | .10907 | .77845 | .06228 |
| #1 | 8489.8 | 85867. | 9130.2 |
| #2 | 8502.9 | 84927. | 9138.3 |

Sample Name: 280-42337-a-1-e msd  Acquired: 5/23/2013 19:13:36  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175481 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03897** | **74.760** | **.96870** | **1.1855** | **2.5520** | **.06273** | F **1.6102** | W **607.86** | **.07659** | **.41769** |
| Stddev | .00057 | .061 | .00446 | .0034 | .0011 | .00003 | .0022 | 8.14 | .00015 | .00059 |
| %RSD | 1.4643 | .08143 | .45995 | .29031 | .04170 | .04817 | .13895 | 1.3395 | .19681 | .14161 |
| #1 | .03857 | 74.803 | .96555 | 1.1831 | 2.5527 | .06275 | 1.6086 | 602.10 | .07670 | .41727 |
| #2 | .03937 | 74.717 | .97185 | 1.1879 | 2.5512 | .06271 | 1.6118 | 613.61 | .07648 | .41811 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | 500.00 | | |
| Low Limit | | | | | | | -.10000 | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29337** | **.44538** | **36.356** | **55.691** | **.86265** | **50.153** | **.62544** | **.79466** | **134.41** | **.50431** |
| Stddev | .00028 | .00108 | .057 | .012 | .00224 | .052 | .00129 | .00137 | .22 | .00100 |
| %RSD | .09623 | .24156 | .15642 | .02146 | .25956 | .10343 | .20576 | .17233 | .16069 | .19787 |
| #1 | .29357 | .44462 | 36.397 | 55.700 | .86423 | 50.117 | .62453 | .79370 | 134.56 | .50501 |
| #2 | .29317 | .44614 | 36.316 | 55.683 | .86107 | 50.190 | .62635 | .79563 | 134.26 | .50360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.5882** | **.42917** | F **250.35** | **.36025** | **1.6946** | **4.9938** | **10.687** | **1.4691** | **2.0885** | **.77528** |
| Stddev | .0228 | .00040 | .08 | .00211 | .0028 | .0881 | .189 | .0015 | .0024 | .00332 |
| %RSD | .26606 | .09273 | .03325 | .58524 | .16358 | 1.7650 | 1.7650 | .10017 | .11407 | .42815 |
| #1 | 8.5720 | .42945 | 250.41 | .35876 | 1.6927 | 5.0561 | 10.820 | 1.4681 | 2.0902 | .77293 |
| #2 | 8.6044 | .42889 | 250.29 | .36174 | 1.6966 | 4.9315 | 10.553 | 1.4701 | 2.0868 | .77763 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8028** | **1.3165** | **1.4864** | **.68704** | **.55113** | **.46809** |
| Stddev | .0104 | .0012 | .0300 | .00127 | .00001 | .00227 |
| %RSD | .27213 | .09239 | 2.0196 | .18469 | .00208 | .48435 |
| #1 | 3.7955 | 1.3174 | 1.5076 | .68793 | .55114 | .46649 |
| #2 | 3.8101 | 1.3157 | 1.4651 | .68614 | .55112 | .46970 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8379.0** | **83845.** | **9068.6** |
| Stddev | 19.5 | 226. | 83.7 |
| %RSD | .23235 | .27008 | .92343 |
| #1 | 8392.7 | 84005. | 9127.8 |
| #2 | 8365.2 | 83685. | 9009.4 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 19:15:45 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00110** | **49.594** | **-.00121** | **.00514** | **.00012** | **.00001** | **1.0445** | **.01356** | **.00023** | **.00035** | **.00035** | **-.00031** |
| Stddev | .00037 | .052 | .00068 | .00049 | .00021 | .00002 | .0037 | .00814 | .00003 | .00001 | .00006 | .00033 |
| %RSD | 33.971 | .10515 | 56.236 | 9.5403 | 169.84 | 169.25 | .35700 | 60.046 | 13.817 | 1.6315 | 16.097 | 105.28 |
| #1 | -.00137 | 49.557 | -.00169 | .00548 | .00027 | .00002 | 1.0419 | .01932 | .00026 | .00035 | .00039 | -.00008 |
| #2 | -.00084 | 49.631 | -.00073 | .00479 | -.00002 | .00000 | 1.0472 | .00780 | .00021 | .00036 | .00031 | -.00054 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.130** | **.28772** | **.00232** | **.04042** | **.00003** | **.00029** | **257.75** | **.00019** | **.00507** | **-.00115** | **4.9971** | **-.00109** |
| Stddev | .076 | .09932 | .00022 | .00185 | .00006 | .00001 | .11 | .00026 | .00131 | .00050 | .0136 | .00020 |
| %RSD | .14863 | 34.518 | 9.4131 | 4.5677 | 209.71 | 3.5968 | .04239 | 138.36 | 25.930 | 43.803 | .27225 | 18.065 |
| #1 | 51.077 | .35795 | .00247 | .03912 | .00008 | .00030 | 257.68 | .00000 | .00599 | -.00079 | 5.0068 | -.00095 |
| #2 | 51.184 | .21749 | .00216 | .04173 | -.00001 | .00028 | 257.83 | .00037 | .00414 | -.00150 | 4.9875 | -.00123 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00252** | **.01093** | **.02340** | **.00054** | **.00040** | **4.9743** | **.00281** | **.00405** | W **10.608** | **-.00043** | **.00111** | **-.00372** |
| Stddev | .00513 | .01952 | .04177 | .00062 | .00016 | .0035 | .00028 | .00117 | .072 | .00009 | .00020 | .00329 |
| %RSD | 203.87 | 178.53 | 178.53 | 113.48 | 39.138 | .06958 | 9.7902 | 29.012 | .67442 | 21.798 | 17.693 | 88.473 |
| #1 | -.00111 | .02474 | .05294 | .00011 | .00051 | 4.9719 | .00262 | .00322 | 10.558 | -.00049 | .00097 | -.00605 |
| #2 | .00614 | -.00287 | -.00614 | .00098 | .00029 | 4.9768 | .00301 | .00488 | 10.659 | -.00036 | .00125 | -.00139 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8014.7** | **79986.** | **8255.2** |
| Stddev | 3.6 | 372. | 3.5 |
| %RSD | .04501 | .46565 | .04256 |
| #1 | 8012.1 | 79722. | 8252.7 |
| #2 | 8017.2 | 80249. | 8257.7 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 19:18:04 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52096** | **.52232** | **1.0259** | **.52360** | **.50436** | **.48806** | **.00079** | **4.9694** | **.49926** | **.50977** | **.52265** | **.50822** | **2.4600** | **49.635** |
| Stddev | .00046 | .00005 | .0049 | .00066 | .00047 | .00130 | .00129 | .0156 | .00137 | .00059 | .00125 | .00045 | .0059 | .300 |
| %RSD | .08897 | .00940 | .47323 | .12651 | .09288 | .26681 | 162.51 | .31455 | .27482 | .11477 | .23951 | .08915 | .23849 | .60473 |
| #1 | .52064 | .52228 | 1.0225 | .52313 | .50403 | .48714 | -.00012 | 4.9583 | .49829 | .50935 | .52176 | .50790 | 2.4559 | 49.423 |
| #2 | .52129 | .52235 | 1.0294 | .52407 | .50470 | .48898 | .00170 | 4.9804 | .50023 | .51018 | .52353 | .50854 | 2.4642 | 49.848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98257** | **20.179** | **.49956** | **.51643** | **4.9872** | **.52744** | **1.0213** | **1.0012** | **.04017** | **1.0086** | **1.0375** | **5.2251** | **11.182** | **1.0288** |
| Stddev | .00073 | .012 | .00056 | .00183 | .0075 | .00164 | .0062 | .0006 | .00219 | .0032 | .0039 | .0312 | .067 | .0005 |
| %RSD | .07384 | .05982 | .11161 | .35377 | .15081 | .31073 | .60215 | .06506 | 5.4486 | .31540 | .37364 | .59675 | .59675 | .05273 |
| #1 | .98206 | 20.171 | .49995 | .51514 | 4.9926 | .52628 | 1.0170 | 1.0016 | .04172 | 1.0109 | 1.0348 | 5.2030 | 11.134 | 1.0284 |
| #2 | .98309 | 20.188 | .49917 | .51772 | 4.9819 | .52859 | 1.0256 | 1.0007 | .03862 | 1.0064 | 1.0403 | 5.2471 | 11.229 | 1.0292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50288** | **.00238** | **.50611** | **1.0249** | **.01135** | **.48696** | **.51074** | **.50203** |
| Stddev | .00125 | .00075 | .00102 | .0045 | .02136 | .00201 | .00101 | .00212 |
| %RSD | .24865 | 31.617 | .20210 | .44124 | 188.24 | .41248 | .19692 | .42192 |
| #1 | .50199 | .00185 | .50539 | 1.0217 | .02645 | .48838 | .51003 | .50353 |
| #2 | .50376 | .00291 | .50684 | 1.0281 | -.00376 | .48554 | .51145 | .50053 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8173.2** | **83736.** | **8272.3** |
| Stddev | 8.6 | 51. | 13.1 |
| %RSD | .10536 | .06042 | .15801 |
| #1 | 8179.3 | 83772. | 8281.5 |
| #2 | 8167.1 | 83700. | 8263.0 |

Sample Name: CCB Acquired: 5/23/2013 19:20:09 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00083** | **.00095** | **.00187** | **.00223** | **-.00015** | **.00008** | **-.00242** | **.00243** | **.00013** | **.00008** | **.00019** | **-.00011** |
| Stddev | .00015 | .00029 | .00133 | .00020 | .00037 | .00004 | .00183 | .00158 | .00017 | .00046 | .00013 | .00005 |
| %RSD | 18.606 | 31.069 | 71.106 | 8.7841 | 254.46 | 50.194 | 75.973 | 64.909 | 133.72 | 580.98 | 69.122 | 46.390 |
| #1 | -.00072 | .00074 | .00093 | .00210 | .00012 | .00011 | -.00371 | .00354 | .00001 | -.00025 | .00010 | -.00014 |
| #2 | -.00093 | .00115 | .00281 | .00237 | -.00041 | .00005 | -.00112 | .00131 | .00025 | .00041 | .00029 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02175** | **.18698** | **.00228** | **.00034** | **.00023** | **.00064** | **.00083** | **-.00005** | **.00149** | **-.00069** | **.03509** | W **.00501** |
| Stddev | .00055 | .02299 | .00073 | .00276 | .00000 | .00005 | .01540 | .00026 | .00020 | .00139 | .00140 | .00036 |
| %RSD | 2.5380 | 12.294 | 31.811 | 819.90 | 1.2287 | 8.2480 | 1847.7 | 530.09 | 13.112 | 199.60 | 3.9842 | 7.1321 |
| #1 | .02214 | .17073 | .00177 | -.00161 | .00023 | .00060 | .01173 | -.00023 | .00135 | .00029 | .03608 | .00526 |
| #2 | .02136 | .20324 | .00280 | .00229 | .00022 | .00068 | -.01006 | .00014 | .00163 | -.00167 | .03410 | .00475 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00298** | **.01240** | **.02653** | **.00082** | **.00001** | **.00186** | **-.00059** | **.00094** | **-.01399** | **-.00008** | **.00241** | **.00022** |
| Stddev | .00010 | .00688 | .01473 | .00051 | .00007 | .00120 | .00024 | .00046 | .02676 | .00028 | .00057 | .00100 |
| %RSD | 3.5008 | 55.510 | 55.510 | 61.883 | 1145.4 | 64.549 | 41.710 | 49.084 | 191.35 | 335.84 | 23.615 | 448.17 |
| #1 | .00305 | .01727 | .03695 | .00117 | -.00004 | .00271 | -.00041 | .00061 | .00494 | .00012 | .00281 | -.00049 |
| #2 | .00291 | .00753 | .01612 | .00046 | .00005 | .00101 | -.00076 | .00126 | -.03291 | -.00029 | .00201 | .00093 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8207.2** | **84650.** | **8176.7** |
| Stddev | 32.9 | 122. | 30.7 |
| %RSD | .40058 | .14398 | .37584 |
| #1 | 8183.9 | 84564. | 8155.0 |
| #2 | 8230.4 | 84736. | 8198.4 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 19:22:20 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00981** | **.10867** | **.01523** | **.10816** | **.01026** | **.00097** | **.12182** | **.20393** | **.00528** | **.01080** | **.01083** | **.01567** | **.09837** |
| Stddev | .00118 | .00013 | .00187 | .00035 | .00004 | .00001 | .00139 | .00182 | .00010 | .00012 | .00016 | .00002 | .00236 |
| %RSD | 12.008 | .11581 | 12.274 | .32170 | .42882 | 1.2830 | 1.1442 | .89138 | 1.9704 | 1.0852 | 1.4635 | .12520 | 2.3954 |
| #1 | .00897 | .10858 | .01655 | .10840 | .01023 | .00098 | .12281 | .20265 | .00521 | .01071 | .01094 | .01566 | .10004 |
| #2 | .01064 | .10876 | .01391 | .10791 | .01030 | .00096 | .12084 | .20522 | .00535 | .01088 | .01072 | .01569 | .09671 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0728** | **.01230** | **.21639** | **.01036** | **.02107** | **1.0571** | **.04368** | **3.0552** | **.00831** | **.02717** | **.01146** | F **.02138** | **.56917** |
| Stddev | .0162 | .00221 | .00141 | .00005 | .00016 | .0127 | .00025 | .0018 | .00118 | .00167 | .00080 | .00034 | .00039 |
| %RSD | .52850 | 17.992 | .65299 | .45462 | .75021 | 1.2036 | .57830 | .05834 | 14.255 | 6.1582 | 6.9478 | 1.5782 | .06900 |
| #1 | 3.0613 | .01386 | .21539 | .01032 | .02118 | 1.0481 | .04386 | 3.0540 | .00915 | .02836 | .01203 | .02162 | .56890 |
| #2 | 3.0843 | .01074 | .21739 | .01039 | .02095 | 1.0661 | .04350 | 3.0565 | .00747 | .02599 | .01090 | .02114 | .56945 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | | | .01500 | |
| Range | | | | | | | | | | | | 30.000% | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2180** | **.10787** | **.01028** | **.01633** | **.01005** | **.01662** | F **.10005** | **.00972** | **.02384** | **.01588** |
| Stddev | .0008 | .00016 | .00007 | .00102 | .00066 | .00102 | .01395 | .00046 | .00061 | .00026 |
| %RSD | .06900 | .15261 | .72619 | 6.2182 | 6.5976 | 6.1365 | 13.942 | 4.7345 | 2.5797 | 1.6308 |
| #1 | 1.2174 | .10775 | .01033 | .01705 | .01052 | .01590 | .09018 | .01005 | .02340 | .01606 |
| #2 | 1.2186 | .10798 | .01023 | .01561 | .00958 | .01734 | .10991 | .00940 | .02427 | .01569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8307.3** | **85664.** | **8249.3** |
| Stddev | 24.0 | 76. | 35.7 |
| %RSD | .28854 | .08847 | .43232 |
| #1 | 8290.4 | 85717. | 8224.1 |
| #2 | 8324.3 | 85610. | 8274.5 |

Sample Name: mb 280-175514/1-a  Acquired: 5/23/2013 19:24:33  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00077** | **.00188** | **-.00061** | **.00094** | **.00023** | **-.00002** | **-.00103** | **.00827** | **.00002** | **.00009** |
| Stddev | .00022 | .00012 | .00024 | .00001 | .00025 | .00000 | .00023 | .00089 | .00026 | .00001 |
| %RSD | 28.085 | 6.1693 | 38.890 | .99526 | 105.34 | 24.730 | 22.737 | 10.739 | 1055.3 | 7.6538 |
| #1 | -.00093 | .00196 | -.00044 | .00093 | .00006 | -.00002 | -.00119 | .00889 | .00021 | .00009 |
| #2 | -.00062 | .00180 | -.00078 | .00094 | .00041 | -.00002 | -.00086 | .00764 | -.00016 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **-.00006** | **.00734** | **.13505** | **.00001** | **.00329** | **.00012** | **-.00005** | **.01683** | **-.00004** |
| Stddev | .00003 | .00058 | .00102 | .00229 | .00000 | .00116 | .00001 | .00019 | .02415 | .00035 |
| %RSD | 31.107 | 903.54 | 13.918 | 1.6924 | 20.676 | 35.164 | 11.289 | 427.41 | 143.48 | 812.91 |
| #1 | .00010 | -.00047 | .00662 | .13667 | .00001 | .00247 | .00011 | .00009 | -.00025 | -.00029 |
| #2 | .00006 | .00034 | .00806 | .13344 | .00001 | .00411 | .00013 | -.00018 | .03390 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16541** | **-.00247** | **.02958** | **.00175** | **.00189** | **.03731** | **.07984** | **-.00065** | **.00003** | **.00116** |
| Stddev | .00041 | .00073 | .00074 | .00055 | .00202 | .00083 | .00177 | .00068 | .00011 | .00071 |
| %RSD | .24720 | 29.422 | 2.4922 | 31.216 | 106.54 | 2.2115 | 2.2115 | 103.57 | 374.78 | 61.489 |
| #1 | .16570 | -.00299 | .02905 | .00136 | .00332 | .03789 | .08109 | -.00113 | -.00005 | .00066 |
| #2 | .16512 | -.00196 | .03010 | .00214 | .00047 | .03672 | .07859 | -.00018 | .00011 | .00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **.00043** | **.01689** | **-.00008** | **.00222** | **.00055** |
| Stddev | .00032 | .00074 | .02151 | .00016 | .00013 | .00067 |
| %RSD | 95.373 | 174.13 | 127.34 | 198.97 | 5.7843 | 121.05 |
| #1 | -.00011 | .00095 | .03210 | .00003 | .00231 | .00102 |
| #2 | -.00056 | -.00010 | .00168 | -.00019 | .00213 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8306.7** | **85648.** | **8233.5** |
| Stddev | 2.4 | 350. | 38.2 |
| %RSD | .02841 | .40819 | .46412 |
| #1 | 8305.0 | 85895. | 8260.6 |
| #2 | 8308.3 | 85401. | 8206.5 |

Sample Name: lcs 280-175514/2-a Acquired: 5/23/2013 19:26:47 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05258** | **1.9743** | **1.0294** | **1.0432** | **2.0231** | **.04898** | **2.2067** | **49.412** | **.10118** | **.49740** |
| Stddev | .00061 | .0026 | .0006 | .0001 | .0046 | .00006 | .0042 | .091 | .00030 | .00027 |
| %RSD | 1.1611 | .13268 | .06308 | .00925 | .22903 | .12348 | .18795 | .18341 | .30030 | .05384 |
| #1 | .05301 | 1.9725 | 1.0289 | 1.0431 | 2.0264 | .04894 | 2.2038 | 49.476 | .10097 | .49759 |
| #2 | .05215 | 1.9762 | 1.0298 | 1.0432 | 2.0198 | .04903 | 2.2096 | 49.348 | .10140 | .49721 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20814** | **.25529** | **.97321** | **49.687** | **.97506** | **50.435** | **.49697** | **1.0520** | **52.882** | **.51243** |
| Stddev | .00014 | .00037 | .00373 | .085 | .00316 | .076 | .00009 | .0010 | .350 | .00024 |
| %RSD | .06668 | .14398 | .38314 | .17138 | .32429 | .15095 | .01791 | .09231 | .66167 | .04718 |
| #1 | .20804 | .25555 | .97584 | 49.626 | .97282 | 50.489 | .49704 | 1.0513 | 53.130 | .51226 |
| #2 | .20824 | .25503 | .97057 | 49.747 | .97730 | 50.381 | .49691 | 1.0527 | 52.635 | .51260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.568** | **.49425** | **.01856** | **.53863** | **2.0837** | **10.779** | **23.067** | **2.0640** | **1.0050** | **1.0182** |
| Stddev | .023 | .00111 | .00069 | .00005 | .0049 | .062 | .134 | .0044 | .0008 | .0037 |
| %RSD | .21710 | .22433 | 3.7282 | .00973 | .23568 | .57939 | .57939 | .21162 | .07916 | .36843 |
| #1 | 10.552 | .49346 | .01807 | .53859 | 2.0871 | 10.823 | 23.162 | 2.0609 | 1.0056 | 1.0208 |
| #2 | 10.584 | .49503 | .01905 | .53867 | 2.0802 | 10.735 | 22.973 | 2.0671 | 1.0045 | 1.0155 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0378** | **1.9761** | **2.2443** | **.49777** | **.51051** | **.51296** |
| Stddev | .0004 | .0001 | .0336 | .00061 | .00247 | .00216 |
| %RSD | .04014 | .00652 | 1.4977 | .12211 | .48477 | .42158 |
| #1 | 1.0375 | 1.9760 | 2.2681 | .49820 | .51226 | .51143 |
| #2 | 1.0381 | 1.9762 | 2.2206 | .49734 | .50876 | .51449 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7958.4** | **80496.** | **8144.4** |
| Stddev | 8.0 | 24. | 43.5 |
| %RSD | .10057 | .03040 | .53425 |
| #1 | 7952.8 | 80479. | 8113.6 |
| #2 | 7964.1 | 80513. | 8175.2 |

Sample Name: 280-42334-c-1-c  Acquired: 5/23/2013 19:28:54  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00122** | **.00207** | **.00083** | **.06729** | **.37542** | **.00006** | **-.00656** | **120.53** | **.00041** | **.00068** |
| Stddev | .00012 | .00001 | .00042 | .00045 | .00200 | .00007 | .00206 | .27 | .00021 | .00009 |
| %RSD | 10.037 | .63788 | 50.489 | .67072 | .53358 | 124.47 | 31.377 | .22329 | 50.420 | 12.856 |
| #1 | -.00113 | .00206 | .00054 | .06697 | .37400 | .00001 | -.00511 | 120.33 | .00026 | .00061 |
| #2 | -.00130 | .00208 | .00113 | .06761 | .37683 | .00011 | -.00802 | 120.72 | .00056 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00138** | **.05709** | **1.4074** | **.03017** | **15.077** | **.09724** | **.00176** | **67.183** | **.00219** |
| Stddev | .00018 | .00021 | .00160 | .0714 | .00213 | .027 | .00014 | .00022 | .495 | .00031 |
| %RSD | 79.418 | 15.438 | 2.8065 | 5.0706 | 7.0764 | .17630 | .14488 | 12.627 | .73686 | 14.238 |
| #1 | .00035 | .00154 | .05596 | 1.3569 | .03167 | 15.096 | .09734 | .00160 | 66.833 | .00197 |
| #2 | .00010 | .00123 | .05822 | 1.4579 | .02866 | 15.058 | .09714 | .00192 | 67.533 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11268** | **.00097** | **4.1074** | **.00135** | **.00094** | **13.356** | **28.583** | **-.00038** | **1.0072** | **-.00196** |
| Stddev | .00051 | .00113 | .0153 | .00269 | .00051 | .100 | .215 | .00028 | .0033 | .00199 |
| %RSD | .45614 | 115.84 | .37241 | 200.14 | 54.902 | .75219 | .75219 | 74.051 | .32949 | 101.60 |
| #1 | .11305 | .00018 | 4.0966 | -.00056 | .00130 | 13.285 | 28.431 | -.00018 | 1.0049 | -.00337 |
| #2 | .11232 | .00177 | 4.1182 | .00325 | .00057 | 13.427 | 28.735 | -.00057 | 1.0096 | -.00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **.00268** | **-.02000** | **.00559** | **.00575** | **.00002** |
| Stddev | .00013 | .00008 | .01211 | .00016 | .00010 | .00137 |
| %RSD | 28.561 | 2.8348 | 60.539 | 2.9152 | 1.6985 | 7125.5 |
| #1 | -.00055 | .00274 | -.02856 | .00570 | .00568 | -.00095 |
| #2 | -.00036 | .00263 | -.01144 | .00547 | .00582 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7964.4** | **80943.** | **8204.7** |
| Stddev | 24.3 | 132. | 40.2 |
| %RSD | .30484 | .16300 | .49002 |
| #1 | 7981.6 | 81036. | 8233.2 |
| #2 | 7947.3 | 80850. | 8176.3 |

Sample Name: 280-42334-c-1-cSD@5 Acquired: 5/23/2013 19:31:10 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00097** | **.00239** | **.00167** | **.01425** | **.07596** | **.00006** | **-.00178** | **24.360** | **.00017** | **.00015** |
| Stddev | .00025 | .00003 | .00148 | .00122 | .00015 | .00001 | .00095 | .039 | .00015 | .00021 |
| %RSD | 26.157 | 1.0831 | 88.691 | 8.5472 | .20038 | 9.1617 | 53.318 | .16062 | 90.138 | 139.94 |
| #1 | -.00114 | .00237 | .00062 | .01511 | .07607 | .00007 | -.00244 | 24.387 | .00028 | .00000 |
| #2 | -.00079 | .00240 | .00272 | .01339 | .07585 | .00006 | -.00111 | 24.332 | .00006 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00010** | **.02751** | **.40562** | **.01003** | **3.1235** | **.01998** | **.00027** | **13.699** | **.00056** |
| Stddev | .00014 | .00008 | .00138 | .00381 | .00196 | .0038 | .00001 | .00009 | .428 | .00006 |
| %RSD | 337.35 | 78.969 | 5.0059 | .93883 | 19.509 | .12119 | .07010 | 31.972 | 3.1278 | 10.083 |
| #1 | .00006 | .00016 | .02654 | .40293 | .01141 | 3.1208 | .01997 | .00021 | 14.002 | .00052 |
| #2 | -.00014 | .00005 | .02849 | .40831 | .00864 | 3.1262 | .01999 | .00034 | 13.396 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02286** | **-.00018** | **.82089** | **-.00008** | **.00402** | **2.6592** | **5.6907** | **-.00103** | **.20396** | **.00013** |
| Stddev | .00006 | .00130 | .00303 | .00003 | .00128 | .0082 | .0176 | .00053 | .00050 | .00182 |
| %RSD | .25869 | 721.07 | .36861 | 34.209 | 31.878 | .30853 | .30853 | 51.690 | .24511 | 1377.4 |
| #1 | .02290 | -.00110 | .82303 | -.00010 | .00493 | 2.6534 | 5.6783 | -.00066 | .20431 | .00142 |
| #2 | .02281 | .00074 | .81876 | -.00006 | .00311 | 2.6650 | 5.7032 | -.00141 | .20361 | -.00116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **.00132** | **.01729** | **.00122** | **.00455** | **.00173** |
| Stddev | .00057 | .00033 | .04142 | .00024 | .00030 | .00195 |
| %RSD | 170.90 | 25.043 | 239.60 | 19.804 | 6.4882 | 112.76 |
| #1 | -.00073 | .00155 | -.01200 | .00105 | .00476 | .00035 |
| #2 | .00007 | .00108 | .04658 | .00139 | .00434 | .00311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8259.7** | **84382.** | **8255.6** |
| Stddev | 21.0 | 114. | 28.8 |
| %RSD | .25453 | .13507 | .34846 |
| #1 | 8244.9 | 84301. | 8276.0 |
| #2 | 8274.6 | 84463. | 8235.3 |

Sample Name: 280-42334-c-1-d ms  Acquired: 5/23/2013 19:33:28  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05114** | **1.8685** | **1.0012** | **1.0667** | **2.3101** | **.04766** | F **2.1255** | **162.06** | **.09840** | **.47293** |
| Stddev | .00191 | .0001 | .0038 | .0005 | .0122 | .00027 | .0034 | 3.49 | .00009 | .00095 |
| %RSD | 3.7295 | .00765 | .38391 | .05067 | .52821 | .55943 | .15840 | 2.1535 | .09591 | .20167 |
| #1 | .04980 | 1.8684 | 1.0039 | 1.0671 | 2.3187 | .04785 | 2.1279 | 164.53 | .09833 | .47360 |
| #2 | .05249 | 1.8686 | .99850 | 1.0664 | 2.3014 | .04747 | 2.1231 | 159.60 | .09847 | .47226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19947** | **.24635** | **.98922** | **49.410** | **.96654** | **62.375** | **.56738** | **1.0101** | **115.67** | **.48838** |
| Stddev | .00048 | .00093 | .00168 | .238 | .00968 | .013 | .00028 | .0019 | .96 | .00163 |
| %RSD | .24254 | .37868 | .16944 | .48255 | 1.0015 | .02099 | .04949 | .19104 | .83014 | .33420 |
| #1 | .19981 | .24701 | .99040 | 49.579 | .97338 | 62.366 | .56718 | 1.0115 | 116.35 | .48954 |
| #2 | .19913 | .24569 | .98803 | 49.242 | .95969 | 62.384 | .56758 | 1.0087 | 114.99 | .48723 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.318** | **.46666** | **3.9992** | **.51787** | **2.0210** | **23.125** | **49.488** | **1.9592** | **1.9423** | **.98168** |
| Stddev | .019 | .00010 | .0133 | .00270 | .0066 | .118 | .254 | .0017 | .0114 | .00116 |
| %RSD | .18020 | .02133 | .33242 | .52049 | .32573 | .51242 | .51242 | .08595 | .58877 | .11830 |
| #1 | 10.331 | .46659 | 4.0086 | .51978 | 2.0257 | 23.209 | 49.667 | 1.9604 | 1.9503 | .98250 |
| #2 | 10.305 | .46673 | 3.9898 | .51596 | 2.0164 | 23.041 | 49.308 | 1.9580 | 1.9342 | .98086 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0001** | **1.8241** | **2.1425** | **.48653** | **.49043** | **.49484** |
| Stddev | .0018 | .0014 | .0060 | .00073 | .00090 | .00243 |
| %RSD | .17607 | .07530 | .28086 | .14939 | .18419 | .49173 |
| #1 | .99889 | 1.8232 | 2.1382 | .48705 | .49107 | .49656 |
| #2 | 1.0014 | 1.8251 | 2.1468 | .48602 | .48979 | .49312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7856.8** | **79033.** | **8233.2** |
| Stddev | 8.4 | 60. | 144.3 |
| %RSD | .10710 | .07604 | 1.7526 |
| #1 | 7862.7 | 79076. | 8131.1 |
| #2 | 7850.8 | 78991. | 8335.2 |

Sample Name: 280-42334-c-1-e msd  Acquired: 5/23/2013 19:35:39  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05153** | **1.8988** | **1.0224** | **1.0826** | **2.3629** | **.04866** | F **2.1651** | **164.96** | **.10018** | **.48191** |
| Stddev | .00043 | .0044 | .0032 | .0011 | .0091 | .00029 | .0007 | .59 | .00010 | .00049 |
| %RSD | .84164 | .23295 | .31093 | .10519 | .38494 | .58839 | .03304 | .35647 | .10470 | .10240 |
| #1 | .05122 | 1.8957 | 1.0246 | 1.0834 | 2.3565 | .04846 | 2.1656 | 164.55 | .10011 | .48156 |
| #2 | .05183 | 1.9020 | 1.0201 | 1.0818 | 2.3694 | .04886 | 2.1646 | 165.38 | .10026 | .48225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20325** | **.24960** | **1.0093** | **50.510** | **.99070** | **63.274** | **.57716** | **1.0233** | **118.77** | **.49684** |
| Stddev | .00002 | .00018 | .0044 | .159 | .00112 | .092 | .00101 | .0005 | .35 | .00020 |
| %RSD | .00872 | .07256 | .43941 | .31415 | .11287 | .14537 | .17580 | .04449 | .29506 | .03979 |
| #1 | .20324 | .24973 | 1.0061 | 50.398 | .98991 | 63.339 | .57787 | 1.0236 | 119.01 | .49670 |
| #2 | .20326 | .24947 | 1.0124 | 50.622 | .99149 | 63.209 | .57644 | 1.0229 | 118.52 | .49698 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.511** | **.47528** | **4.1383** | **.52481** | **2.0581** | **23.749** | **50.824** | **1.9837** | **1.9950** | **.99616** |
| Stddev | .013 | .00141 | .0068 | .00051 | .0048 | .023 | .049 | .0021 | .0063 | .00427 |
| %RSD | .11924 | .29756 | .16417 | .09624 | .23147 | .09614 | .09614 | .10361 | .31764 | .42890 |
| #1 | 10.520 | .47628 | 4.1431 | .52517 | 2.0614 | 23.766 | 50.858 | 1.9823 | 1.9906 | .99918 |
| #2 | 10.502 | .47428 | 4.1335 | .52446 | 2.0547 | 23.733 | 50.789 | 1.9852 | 1.9995 | .99314 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0091** | **1.8582** | **2.1955** | **.49225** | **.49708** | **.50283** |
| Stddev | .0008 | .0009 | .0291 | .00023 | .00056 | .00034 |
| %RSD | .08283 | .04680 | 1.3278 | .04641 | .11173 | .06752 |
| #1 | 1.0085 | 1.8588 | 2.1749 | .49241 | .49747 | .50307 |
| #2 | 1.0097 | 1.8576 | 2.2162 | .49209 | .49668 | .50259 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7846.1** | **79109.** | **8181.9** |
| Stddev | 32.7 | 254. | 5.0 |
| %RSD | .41677 | .32108 | .06092 |
| #1 | 7869.2 | 78929. | 8185.5 |
| #2 | 7823.0 | 79288. | 8178.4 |

Sample Name: 280-42334-c-1-cPDS  Acquired: 5/23/2013 19:37:49  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05026** | **.96192** | **.19483** | **.17254** | **.46906** | **.04713** | **-.00484** | **137.89** | **.04940** | **.04869** |
| Stddev | .00119 | .00011 | .00048 | .00046 | .00067 | .00014 | .00286 | .34 | .00011 | .00006 |
| %RSD | 2.3688 | .01167 | .24658 | .26408 | .14354 | .28875 | 59.018 | .24539 | .22131 | .12089 |
| #1 | .05110 | .96184 | .19517 | .17286 | .46858 | .04703 | -.00282 | 137.65 | .04932 | .04865 |
| #2 | .04942 | .96200 | .19449 | .17222 | .46953 | .04723 | -.00686 | 138.13 | .04947 | .04873 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05047** | **.05088** | **.99466** | **20.550** | **.12637** | **33.653** | **.14339** | **.05386** | **87.591** | **.05122** |
| Stddev | .00017 | .00068 | .01024 | .083 | .00093 | .094 | .00012 | .00021 | 1.025 | .00015 |
| %RSD | .33105 | 1.3312 | 1.0299 | .40328 | .73307 | .27944 | .08519 | .39410 | 1.1696 | .30010 |
| #1 | .05059 | .05040 | .98742 | 20.491 | .12571 | 33.719 | .14347 | .05401 | 86.866 | .05112 |
| #2 | .05035 | .05136 | 1.0019 | 20.608 | .12702 | 33.586 | .14330 | .05371 | 88.315 | .05133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.1530** | **.09459** | **4.0947** | **.10140** | **.20235** | **18.528** | **39.650** | **.10130** | **1.0486** | **.19595** |
| Stddev | .0022 | .00068 | .0047 | .00063 | .00602 | .069 | .147 | .00060 | .0035 | .00097 |
| %RSD | .10354 | .71606 | .11564 | .62253 | 2.9727 | .37131 | .37131 | .59626 | .33769 | .49719 |
| #1 | 2.1546 | .09411 | 4.0981 | .10095 | .19810 | 18.479 | 39.546 | .10087 | 1.0461 | .19664 |
| #2 | 2.1515 | .09507 | 4.0914 | .10184 | .20661 | 18.577 | 39.754 | .10172 | 1.0511 | .19527 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05079** | **.18776** | **.55242** | **.05347** | **.20033** | **.04928** |
| Stddev | .00033 | .00007 | .05210 | .00093 | .00086 | .00057 |
| %RSD | .65917 | .03532 | 9.4304 | 1.7386 | .43030 | 1.1544 |
| #1 | .05102 | .18781 | .51559 | .05412 | .20094 | .04887 |
| #2 | .05055 | .18771 | .58926 | .05281 | .19972 | .04968 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7911.0** | **80780.** | **8229.1** |
| Stddev | 16.5 | 293. | 32.7 |
| %RSD | .20895 | .36302 | .39708 |
| #1 | 7899.3 | 80573. | 8252.2 |
| #2 | 7922.7 | 80987. | 8206.0 |

Sample Name: 280-42334-c-2-c  Acquired: 5/23/2013 19:40:00  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175514 6010B Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00101** | **.00672** | **-.00163** | **.07442** | **.22067** | **.00007** | **-.00502** | **129.74** | **.00057** | **.00015** |
| Stddev | .00007 | .00002 | .00155 | .00044 | .00100 | .00000 | .00152 | .59 | .00018 | .00017 |
| %RSD | 6.6290 | .32359 | 94.990 | .59359 | .45435 | 4.6375 | 30.272 | .45241 | 32.165 | 111.29 |
| #1 | -.00106 | .00674 | -.00054 | .07473 | .21996 | .00007 | -.00610 | 129.33 | .00044 | .00027 |
| #2 | -.00096 | .00671 | -.00273 | .07411 | .22138 | .00008 | -.00395 | 130.16 | .00070 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00080** | **.01102** | **1.4182** | **.03911** | **23.867** | **.02425** | **.00110** | **61.149** | **.00149** |
| Stddev | .00016 | .00025 | .00004 | .0696 | .00208 | .018 | .00012 | .00024 | .077 | .00031 |
| %RSD | 35.106 | 31.676 | .40810 | 4.9075 | 5.3171 | .07727 | .48415 | 22.015 | .12557 | 20.628 |
| #1 | .00034 | .00062 | .01105 | 1.3690 | .03764 | 23.880 | .02417 | .00128 | 61.203 | .00127 |
| #2 | .00057 | .00098 | .01099 | 1.4674 | .04058 | 23.854 | .02433 | .00093 | 61.094 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09024** | **-.00017** | **5.5760** | **.00013** | **.00093** | **13.174** | **28.193** | **.00004** | **1.5686** | **.00023** |
| Stddev | .00035 | .00112 | .0044 | .00187 | .00208 | .033 | .070 | .00075 | .0069 | .00113 |
| %RSD | .38814 | 647.56 | .07908 | 1431.1 | 224.29 | .24896 | .24896 | 1853.9 | .43834 | 487.98 |
| #1 | .08999 | -.00096 | 5.5792 | .00145 | -.00054 | 13.151 | 28.144 | .00057 | 1.5638 | -.00057 |
| #2 | .09049 | .00062 | 5.5729 | -.00119 | .00240 | 13.198 | 28.243 | -.00049 | 1.5735 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00164** | **.00247** | **.01125** | **.00518** | **.00258** |
| Stddev | .00016 | .00100 | .00292 | .00066 | .00018 | .00071 |
| %RSD | 533.76 | 61.346 | 118.35 | 5.8376 | 3.5477 | 27.480 |
| #1 | -.00014 | .00093 | .00040 | .01078 | .00505 | .00308 |
| #2 | .00008 | .00235 | .00453 | .01171 | .00531 | .00208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8023.8** | **81173.** | **8275.9** |
| Stddev | 3.1 | 21. | 2.1 |
| %RSD | .03815 | .02602 | .02522 |
| #1 | 8021.6 | 81158. | 8277.4 |
| #2 | 8025.9 | 81188. | 8274.4 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 19:42:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00109** | **50.247** | **-.00170** | **.00333** | **.00003** | **-.00001** | **1.0376** | **.01388** | **.00049** | **.00051** | **.00029** | **-.00067** |
| Stddev | .00021 | .165 | .00089 | .00041 | .00009 | .00004 | .0048 | .00083 | .00002 | .00005 | .00004 | .00008 |
| %RSD | 19.122 | .32757 | 52.050 | 12.404 | 268.66 | 401.38 | .46039 | 5.9490 | 3.1064 | 9.4850 | 15.139 | 11.355 |
| #1 | -.00123 | 50.130 | -.00233 | .00303 | .00010 | .00002 | 1.0410 | .01329 | .00048 | .00054 | .00026 | -.00072 |
| #2 | -.00094 | 50.363 | -.00107 | .00362 | -.00003 | -.00004 | 1.0342 | .01446 | .00050 | .00047 | .00032 | -.00061 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.485** | **.19718** | **.00148** | **.04580** | **.00000** | **-.00022** | **259.42** | **.00046** | **.00673** | **-.00272** | **4.9478** | **-.00157** |
| Stddev | .409 | .02983 | .00028 | .00251 | .0001 | .00034 | 1.79 | .00056 | .00063 | .00048 | .0122 | .00073 |
| %RSD | .79530 | 15.129 | 19.215 | 5.4900 | 1798.2 | 156.50 | .68837 | 120.92 | 9.4312 | 17.775 | .24658 | 46.201 |
| #1 | 51.195 | .17609 | .00168 | .04757 | .00006 | .00002 | 258.15 | .00085 | .00628 | -.00238 | 4.9564 | -.00106 |
| #2 | 51.774 | .21827 | .00128 | .04402 | -.00007 | -.00046 | 260.68 | .00007 | .00718 | -.00307 | 4.9392 | -.00209 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00484** | **.01573** | **.03367** | **-.00003** | **.00050** | **4.9900** | **.00116** | **.00187** | W **10.568** | **.00001** | **.00107** | **-.00064** |
| Stddev | .00142 | .00771 | .01650 | .00048 | .00007 | .0363 | .00061 | .00005 | .041 | .00077 | .00035 | .00247 |
| %RSD | 29.267 | 48.997 | 48.997 | 1529.9 | 14.193 | .72767 | 52.744 | 2.8825 | .39258 | 5983.8 | 32.916 | 386.39 |
| #1 | .00383 | .02118 | .04533 | .00031 | .00055 | 5.0157 | .00160 | .00183 | 10.598 | -.00053 | .00131 | -.00239 |
| #2 | .00584 | .01028 | .02200 | -.00037 | .00045 | 4.9644 | .00073 | .00190 | 10.539 | .00056 | .00082 | .00111 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7966.3** | **79708.** | **8126.3** |
| Stddev | 2.1 | 300. | 1.7 |
| %RSD | .02602 | .37658 | .02044 |
| #1 | 7964.8 | 79495. | 8127.4 |
| #2 | 7967.8 | 79920. | 8125.1 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 19:44:33 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53448** | **.53032** | **1.0360** | **.52405** | **.51071** | **.49535** | **.00063** | **5.0596** | **.50873** | **.51937** | **.52967** | **.52052** | **2.4974** | **50.230** |
| Stddev | .00015 | .00055 | .0003 | .00111 | .00001 | .00011 | .00251 | .0050 | .00004 | .00013 | .00036 | .00083 | .0009 | .048 |
| %RSD | .02891 | .10334 | .02530 | .21148 | .00278 | .02250 | 399.36 | .09787 | .00716 | .02534 | .06826 | .16021 | .03586 | .09570 |
| #1 | .53459 | .52994 | 1.0362 | .52327 | .51070 | .49527 | .00240 | 5.0561 | .50870 | .51928 | .52942 | .51993 | 2.4981 | 50.264 |
| #2 | .53437 | .53071 | 1.0358 | .52484 | .51072 | .49543 | -.00115 | 5.0631 | .50875 | .51947 | .52993 | .52111 | 2.4968 | 50.196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99761** | **20.618** | **.51091** | **.52434** | **5.0977** | **.53348** | **1.0370** | **1.0244** | **.01161** | **1.0330** | **1.0485** | **5.2318** | **11.196** | **1.0440** |
| Stddev | .00254 | .026 | .00038 | .00080 | .0134 | .00012 | .0046 | .0013 | .00127 | .0014 | .0016 | .0200 | .043 | .0022 |
| %RSD | .25446 | .12844 | .07430 | .15240 | .26225 | .02203 | .44856 | .12764 | 10.963 | .13043 | .14896 | .38271 | .38271 | .21489 |
| #1 | .99941 | 20.600 | .51064 | .52491 | 5.1072 | .53340 | 1.0338 | 1.0254 | .01251 | 1.0339 | 1.0474 | 5.2177 | 11.166 | 1.0424 |
| #2 | .99582 | 20.637 | .51118 | .52378 | 5.0883 | .53356 | 1.0403 | 1.0235 | .01071 | 1.0320 | 1.0496 | 5.2460 | 11.226 | 1.0456 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50965** | **.00180** | **.51732** | **1.0443** | **.01238** | **.50147** | **.52092** | **.51234** |
| Stddev | .00046 | .00096 | .00058 | .0001 | .01678 | .00187 | .00028 | .00326 |
| %RSD | .09039 | 53.447 | .11240 | .00857 | 135.52 | .37348 | .05325 | .63578 |
| #1 | .50997 | .00248 | .51773 | 1.0444 | .02425 | .50014 | .52073 | .51464 |
| #2 | .50932 | .00112 | .51690 | 1.0443 | .00052 | .50279 | .52112 | .51004 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8202.1** | **83749.** | **8290.6** |
| Stddev | 17.0 | 288. | 46.1 |
| %RSD | .20739 | .34381 | .55567 |
| #1 | 8214.1 | 83952. | 8258.1 |
| #2 | 8190.1 | 83545. | 8323.2 |

Sample Name: CCB Acquired: 5/23/2013 19:46:39 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.00047** | **.00311** | **.00102** | **-.00027** | **.00002** | **-.00106** | **.00331** | **.00005** | **.00016** | **.00028** |
| Stddev | .00006 | .00002 | .00050 | .00018 | .00056 | .00003 | .00015 | .00101 | .00027 | .00006 | .00006 |
| %RSD | 9.9376 | 3.9947 | 15.962 | 17.723 | 203.25 | 129.95 | 14.319 | 30.410 | 555.10 | 36.808 | 19.997 |
| #1 | -.00063 | .00048 | .00346 | .00089 | -.00067 | .00004 | -.00095 | .00260 | .00024 | .00012 | .00032 |
| #2 | -.00054 | .00045 | .00276 | .00115 | .00012 | .00000 | -.00117 | .00402 | -.00014 | .00020 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00227** | **.22847** | **.00058** | **.00263** | **-.00001** | **.00032** | **.02412** | **.00002** | **.00180** | **-.00178** |
| Stddev | .00026 | .00088 | .04517 | .00148 | .00150 | .00003 | .00003 | .00411 | .00003 | .00112 | .00040 |
| %RSD | 345.96 | 38.687 | 19.768 | 254.09 | 57.171 | 245.90 | 8.1629 | 17.023 | 126.35 | 62.514 | 22.504 |
| #1 | .00011 | .00165 | .26041 | .00163 | .00157 | -.00004 | .00034 | .02122 | .00004 | .00100 | -.00149 |
| #2 | -.00025 | .00289 | .19654 | -.00046 | .00370 | .00001 | .00030 | .02702 | .00000 | .00259 | -.00206 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01331** | W **.00539** | **.00238** | **.02008** | **.04298** | **-.00042** | **.00006** | **-.00007** | W **-.00075** | **.00040** | **.03159** |
| Stddev | .00160 | .00260 | .00352 | .00286 | .00611 | .00033 | .00012 | .00067 | .00047 | .00046 | .00062 |
| %RSD | 12.055 | 48.266 | 147.75 | 14.224 | 14.224 | 77.344 | 195.27 | 915.73 | 63.018 | 115.45 | 1.9705 |
| #1 | .01444 | .00355 | -.00011 | .02210 | .04730 | -.00065 | -.00002 | .00040 | -.00041 | .00007 | .03115 |
| #2 | .01217 | .00723 | .00487 | .01806 | .03866 | -.00019 | .00015 | -.00054 | -.00108 | .00073 | .03203 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | .00060 | | |
| Low Limit | | -.00314 | | | | | | | -.00060 | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00039** | **.00279** | W **.00300** |
| Stddev | .00017 | .00060 | .00059 |
| %RSD | 42.529 | 21.610 | 19.708 |
| #1 | .00027 | .00237 | .00341 |
| #2 | .00051 | .00322 | .00258 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8217.3** | **85027.** | **8204.5** |
| Stddev | 12.6 | 296. | 5.5 |
| %RSD | .15315 | .34810 | .06661 |
| #1 | 8226.2 | 84818. | 8200.6 |
| #2 | 8208.4 | 85236. | 8208.4 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 19:48:52 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01001** | **.10905** | **.01505** | **.10774** | **.01048** | **.00101** | **.12001** | **.20978** | **.00524** | **.01068** | **.01070** | **.01546** | **.10021** |
| Stddev | .00066 | .00028 | .00083 | .00016 | .00034 | .00006 | .00180 | .00191 | .00007 | .00006 | .00006 | .00024 | .00222 |
| %RSD | 6.5851 | .26096 | 5.4893 | .14751 | 3.2037 | 5.6611 | 1.5016 | .90881 | 1.3732 | .57617 | .52139 | 1.5758 | 2.2137 |
| #1 | .00954 | .10926 | .01563 | .10785 | .01025 | .00097 | .11874 | .20843 | .00529 | .01072 | .01074 | .01529 | .09864 |
| #2 | .01048 | .10885 | .01447 | .10763 | .01072 | .00105 | .12128 | .21113 | .00519 | .01063 | .01066 | .01563 | .10178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0599** | F **.01402** | **.21550** | **.01033** | **.02133** | **1.0564** | **.04345** | **3.0481** | **.00722** | **.01108** | **.01055** | **.01626** | **.56442** |
| Stddev | .0159 | .00294 | .00099 | .00001 | .00015 | .0205 | .00022 | .0022 | .00036 | .00082 | .00035 | .00134 | .01676 |
| %RSD | .52138 | 20.956 | .45992 | .10614 | .70515 | 1.9422 | .51726 | .07385 | 4.9563 | 7.4014 | 3.3408 | 8.2466 | 2.9693 |
| #1 | 3.0486 | .01194 | .21620 | .01034 | .02144 | 1.0709 | .04361 | 3.0465 | .00748 | .01050 | .01030 | .01532 | .55257 |
| #2 | 3.0712 | .01610 | .21479 | .01033 | .02122 | 1.0419 | .04329 | 3.0497 | .00697 | .01166 | .01079 | .01721 | .57627 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2079** | **.10774** | **.01019** | **.01553** | **.00953** | **.01675** | F **.10057** | **.00984** | **.02334** | **.01464** |
| Stddev | .0359 | .00102 | .00009 | .00125 | .00037 | .00087 | .04130 | .00063 | .00022 | .00125 |
| %RSD | 2.9693 | .94368 | .83461 | 8.0638 | 3.8486 | 5.1660 | 41.062 | 6.4412 | .94819 | 8.5457 |
| #1 | 1.1825 | .10846 | .01013 | .01642 | .00928 | .01736 | .12977 | .01029 | .02319 | .01375 |
| #2 | 1.2332 | .10702 | .01025 | .01465 | .00979 | .01613 | .07137 | .00939 | .02350 | .01552 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8347.7** | **85964.** | **8285.7** |
| Stddev | 37.5 | 396. | 46.3 |
| %RSD | .44889 | .46039 | .55922 |
| #1 | 8321.2 | 86244. | 8318.4 |
| #2 | 8374.2 | 85684. | 8252.9 |

Sample Name: mb 280-175340/1-a  Acquired: 5/23/2013 19:51:07  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **-.00071** | **.00332** | **-.00203** | **.00098** | **-.00011** | **.00003** | **-.00061** | **.00806** | **.00007** | **.00006** |
| Stddev | .00052 | .00006 | .00270 | .00015 | .00025 | .00007 | .00096 | .00068 | .00009 | .00016 |
| %RSD | 72.540 | 1.9092 | 132.76 | 15.718 | 227.06 | 242.08 | 158.17 | 8.4554 | 124.08 | 290.71 |
| #1 | -.00107 | .00337 | -.00012 | .00087 | .00007 | .00008 | .00007 | .00854 | .00001 | .00017 |
| #2 | -.00035 | .00328 | -.00394 | .00108 | -.00029 | -.00002 | -.00129 | .00758 | .00014 | -.00006 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .01000 | | | | | | | | | |
| Low Limit | -.00010 | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **-.00020** | **.00550** | **.15600** | **.00324** | **.00334** | **.00007** | **.00016** | **.03082** | **.00016** |
| Stddev | .00011 | .00007 | .00041 | .03221 | .00186 | .00058 | .00005 | .00024 | .00193 | .00027 |
| %RSD | 40.725 | 37.329 | 7.4210 | 20.647 | 57.546 | 17.473 | 67.942 | 144.02 | 6.2711 | 174.56 |
| #1 | .00034 | -.00025 | .00579 | .13322 | .00456 | .00293 | .00004 | .00000 | .03219 | .00035 |
| #2 | .00019 | -.00015 | .00521 | .17877 | .00192 | .00376 | .00011 | .00033 | .02946 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.19565** | **-.00185** | F **.01260** | **.00153** | **.00162** | F **.05479** | **.11725** | **-.00034** | **.00001** | W **.00004** |
| Stddev | .00263 | .00162 | .00254 | .00192 | .00190 | .00008 | .00017 | .00038 | .00011 | .00122 |
| %RSD | 1.3434 | 87.384 | 20.159 | 125.50 | 117.55 | .14548 | .14548 | 111.14 | 1165.4 | 3441.2 |
| #1 | .19751 | -.00299 | .01080 | .00017 | .00296 | .05473 | .11713 | -.00060 | .00009 | .00090 |
| #2 | .19380 | -.00071 | .01439 | .00289 | .00027 | .05485 | .11737 | -.00007 | -.00007 | -.00083 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .01000 | | .01000 | | | .01000 | | | | .00000 |
| Low Limit | -.01000 | | -.01000 | | | -.01000 | | | | -.00500 |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.00053** | **.03120** | **-.00016** | **.00264** | **-.00047** |
| Stddev | .00016 | .00029 | .03303 | .00047 | .00027 | .00081 |
| %RSD | 69.423 | 54.634 | 105.87 | 289.43 | 10.368 | 170.78 |
| #1 | -.00011 | .00074 | .05455 | -.00049 | .00284 | -.00104 |
| #2 | -.00034 | .00033 | .00784 | .00017 | .00245 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8364.7** | **86602.** | **8361.6** |
| Stddev | 6.4 | 10. | 20.3 |
| %RSD | .07592 | .01113 | .24283 |
| #1 | 8360.2 | 86609. | 8376.0 |
| #2 | 8369.2 | 86595. | 8347.3 |

Sample Name: lcs 280-175340/2-a Acquired: 5/23/2013 19:53:19 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05327** | **1.9976** | **1.0427** | **1.0595** | **2.0431** | **.04934** | **2.2478** | **50.130** | **.10256** | **.50427** |
| Stddev | .00012 | .0020 | .0016 | .0002 | .0057 | .00011 | .0026 | .156 | .00056 | .00043 |
| %RSD | .22664 | .09940 | .15384 | .01549 | .27994 | .22275 | .11351 | .31122 | .54994 | .08603 |
| #1 | .05336 | 1.9990 | 1.0416 | 1.0596 | 2.0391 | .04942 | 2.2496 | 50.020 | .10216 | .50397 |
| #2 | .05319 | 1.9962 | 1.0438 | 1.0594 | 2.0472 | .04926 | 2.2460 | 50.240 | .10296 | .50458 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21133** | **.25802** | **.99427** | **50.291** | **.98134** | **50.985** | **.50426** | **1.0656** | **53.104** | **.52026** |
| Stddev | .00022 | .00026 | .00484 | .088 | .00652 | .363 | .00194 | .0004 | .167 | .00003 |
| %RSD | .10291 | .10015 | .48702 | .17500 | .66461 | .71172 | .38448 | .03401 | .31375 | .00548 |
| #1 | .21118 | .25784 | .99085 | 50.228 | .97673 | 50.729 | .50289 | 1.0658 | 53.221 | .52028 |
| #2 | .21149 | .25821 | .99770 | 50.353 | .98595 | 51.242 | .50563 | 1.0653 | 52.986 | .52024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.758** | **.50108** | **.00578** | W **.54719** | **2.1186** | **10.887** | **23.298** | **2.0961** | **1.0169** | **1.0305** |
| Stddev | .009 | .00042 | .00095 | .00127 | .0014 | .020 | .043 | .0036 | .0031 | .0053 |
| %RSD | .08601 | .08386 | 16.402 | .23144 | .06790 | .18541 | .18541 | .16983 | .29961 | .51138 |
| #1 | 10.764 | .50079 | .00511 | .54629 | 2.1176 | 10.873 | 23.267 | 2.0936 | 1.0148 | 1.0268 |
| #2 | 10.751 | .50138 | .00645 | .54808 | 2.1196 | 10.901 | 23.328 | 2.0986 | 1.0191 | 1.0342 |
| Check ? | Chk Pass | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .54000 | | | | | | |
| Low Limit | | | | .44000 | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0572** | **1.9985** | **2.2838** | **.50368** | **.51610** | **.52210** |
| Stddev | .0027 | .0011 | .0186 | .00272 | .00364 | .00294 |
| %RSD | .25587 | .05696 | .81389 | .54088 | .70594 | .56310 |
| #1 | 1.0553 | 1.9976 | 2.2707 | .50175 | .51352 | .52002 |
| #2 | 1.0591 | 1.9993 | 2.2969 | .50560 | .51867 | .52418 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8019.7** | **80466.** | **8272.9** |
| Stddev | 4.1 | 860. | 64.2 |
| %RSD | .05119 | 1.0685 | .77657 |
| #1 | 8022.6 | 81074. | 8318.3 |
| #2 | 8016.8 | 79858. | 8227.5 |

Sample Name: 280-42044-a-1-c  Acquired: 5/23/2013 19:55:24  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00106** | **.09674** | **-.00233** | **.11204** | **.74338** | **.00005** | **-.00160** | **3.2296** | **.00019** | **.00007** |
| Stddev | .00068 | .00033 | .00116 | .00014 | .00028 | .00001 | .00138 | .0070 | .00007 | .00015 |
| %RSD | 64.278 | .34444 | 49.821 | .12306 | .03721 | 24.676 | 86.519 | .21601 | 37.679 | 206.88 |
| #1 | -.00058 | .09650 | -.00151 | .11214 | .74319 | .00004 | -.00258 | 3.2246 | .00014 | -.00003 |
| #2 | -.00155 | .09697 | -.00315 | .11194 | .74358 | .00005 | -.00062 | 3.2345 | .00024 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00422** | **.00374** | **2.9489** | **2.9967** | **.06478** | **.81701** | **.02665** | **.00164** | W **530.62** | **.00100** |
| Stddev | .00008 | .00027 | .0008 | .0153 | .00016 | .00307 | .00006 | .00026 | .43 | .00022 |
| %RSD | 1.8531 | 7.1291 | .02658 | .51001 | .24180 | .37593 | .23486 | 15.655 | .08023 | 22.384 |
| #1 | .00416 | .00356 | 2.9495 | 3.0075 | .06467 | .81918 | .02661 | .00146 | 530.92 | .00116 |
| #2 | .00427 | .00393 | 2.9484 | 2.9858 | .06489 | .81484 | .02670 | .00182 | 530.32 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14143** | **-.00081** | **.19530** | **.00034** | **.00486** | **8.6069** | **18.419** | **-.00123** | **.45781** | **-.00158** |
| Stddev | .00084 | .00159 | .00259 | .00017 | .00180 | .0098 | .021 | .00063 | .00009 | .00018 |
| %RSD | .59246 | 194.71 | 1.3248 | 50.699 | 36.942 | .11409 | .11409 | 51.051 | .01909 | 11.373 |
| #1 | .14084 | -.00194 | .19713 | .00046 | .00613 | 8.6139 | 18.434 | -.00078 | .45788 | -.00171 |
| #2 | .14203 | .00031 | .19347 | .00022 | .00359 | 8.6000 | 18.404 | -.00167 | .45775 | -.00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00161** | **.00284** | **.05285** | **.00098** | **.00447** | **.00027** |
| Stddev | .00026 | .00181 | .02774 | .00005 | .00013 | .00051 |
| %RSD | 16.360 | 63.717 | 52.482 | 4.9191 | 2.9379 | 187.47 |
| #1 | .00180 | .00156 | .07246 | .00102 | .00438 | .00063 |
| #2 | .00142 | .00412 | .03324 | .00095 | .00456 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7660.0** | **76315.** | **7976.1** |
| Stddev | 7.4 | 52. | 97.0 |
| %RSD | .09682 | .06806 | 1.2167 |
| #1 | 7665.2 | 76352. | 8044.8 |
| #2 | 7654.7 | 76278. | 7907.5 |

Sample Name: 280-42044-a-1-cSD@5 Acquired: 5/23/2013 19:57:44 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00104** | **.02220** | **.00160** | **.02347** | **.14848** | **-.00004** | **.00025** | **.65071** | **-.00004** | **.00002** |
| Stddev | .00015 | .00020 | .00068 | .00066 | .00089 | .00006 | .00136 | .00351 | .00013 | .00027 |
| %RSD | 14.387 | .91673 | 42.262 | 2.7949 | .59795 | 143.09 | 547.95 | .53968 | 339.42 | 1185.8 |
| #1 | -.00115 | .02234 | .00208 | .02394 | .14785 | -.00008 | .00121 | .64822 | -.00013 | -.00017 |
| #2 | -.00094 | .02205 | .00112 | .02301 | .14911 | .00000 | -.00071 | .65319 | .00005 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **.00097** | **.60364** | **.65115** | **.01347** | **.16682** | **.00534** | **.00050** | **106.04** | **.00052** |
| Stddev | .00000 | .00022 | .00080 | .02034 | .00175 | .00029 | .00003 | .00007 | .46 | .00008 |
| %RSD | .22007 | 22.130 | .13252 | 3.1236 | 13.000 | .17564 | .63743 | 14.440 | .43052 | 14.759 |
| #1 | .00092 | .00082 | .60307 | .63677 | .01223 | .16662 | .00537 | .00055 | 105.71 | .00046 |
| #2 | .00092 | .00113 | .60420 | .66553 | .01470 | .16703 | .00532 | .00045 | 106.36 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02802** | **-.00173** | **.04403** | **-.00188** | **.00366** | **1.7082** | **3.6556** | **-.00034** | **.09135** | **.00037** |
| Stddev | .00111 | .00078 | .00174 | .00135 | .00028 | .0045 | .0095 | .00033 | .00037 | .00057 |
| %RSD | 3.9487 | 44.947 | 3.9437 | 71.742 | 7.6107 | .26078 | .26078 | 97.189 | .40126 | 154.65 |
| #1 | .02723 | -.00118 | .04526 | -.00283 | .00347 | 1.7114 | 3.6623 | -.00011 | .09109 | -.00003 |
| #2 | .02880 | -.00228 | .04280 | -.00093 | .00386 | 1.7051 | 3.6488 | -.00058 | .09161 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00102** | **-.00767** | **.00007** | **.00406** | **.00097** |
| Stddev | .00036 | .00058 | .01906 | .00067 | .00028 | .00290 |
| %RSD | 294.80 | 56.724 | 248.61 | 958.59 | 6.8790 | 300.44 |
| #1 | .00013 | .00061 | -.02114 | -.00040 | .00386 | .00302 |
| #2 | -.00038 | .00144 | .00581 | .00054 | .00426 | -.00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7924.0** | **80088.** | **8074.5** |
| Stddev | 8.8 | 191. | 22.5 |
| %RSD | .11141 | .23800 | .27865 |
| #1 | 7917.7 | 80223. | 8058.6 |
| #2 | 7930.2 | 79953. | 8090.4 |

Sample Name: 280-42044-a-1-d ms  Acquired: 5/23/2013 20:00:03  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05386** | **2.1190** | **1.0743** | **1.1405** | **2.8218** | **.04955** | F **2.1973** | **53.561** | **.10347** | **.50053** |
| Stddev | .00023 | .0038 | .0020 | .0052 | .0132 | .00020 | .0014 | .036 | .00022 | .00057 |
| %RSD | .43382 | .17892 | .18651 | .45747 | .46886 | .39638 | .06454 | .06770 | .21179 | .11381 |
| #1 | .05370 | 2.1163 | 1.0729 | 1.1368 | 2.8125 | .04942 | 2.1963 | 53.535 | .10362 | .50013 |
| #2 | .05403 | 2.1216 | 1.0757 | 1.1442 | 2.8312 | .04969 | 2.1983 | 53.586 | .10331 | .50093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21344** | **.25952** | **4.0278** | **54.239** | **1.0445** | **50.687** | **.53241** | **1.0639** | W **601.84** | **.51395** |
| Stddev | .00044 | .00045 | .0139 | .159 | .0059 | .001 | .00030 | .0012 | 3.58 | .00177 |
| %RSD | .20543 | .17303 | .34573 | .29401 | .56593 | .00176 | .05652 | .11149 | .59473 | .34364 |
| #1 | .21313 | .25920 | 4.0179 | 54.127 | 1.0403 | 50.686 | .53220 | 1.0631 | 599.31 | .51270 |
| #2 | .21375 | .25984 | 4.0376 | 54.352 | 1.0486 | 50.688 | .53262 | 1.0647 | 604.37 | .51520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.963** | **.48759** | **.19640** | **.54272** | **2.1432** | **19.901** | **42.588** | W **2.0594** | **1.4973** | **1.0449** |
| Stddev | .016 | .00090 | .00132 | .00024 | .0037 | .031 | .067 | .0024 | .0066 | .0055 |
| %RSD | .14594 | .18472 | .67059 | .04349 | .17089 | .15753 | .15753 | .11873 | .43955 | .52352 |
| #1 | 10.952 | .48695 | .19733 | .54289 | 2.1406 | 19.923 | 42.636 | 2.0576 | 1.4926 | 1.0410 |
| #2 | 10.975 | .48823 | .19547 | .54256 | 2.1457 | 19.879 | 42.541 | 2.0611 | 1.5019 | 1.0488 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | 2.0000 | | |
| Low Limit | -1.0000 | | | | | | | -.05000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0615** | **1.8542** | **2.2123** | **.51476** | **.53521** | **.52053** |
| Stddev | .0004 | .0007 | .0018 | .00072 | .00057 | .00390 |
| %RSD | .03942 | .03851 | .08116 | .13899 | .10731 | .74979 |
| #1 | 1.0612 | 1.8537 | 2.2135 | .51425 | .53562 | .51777 |
| #2 | 1.0617 | 1.8547 | 2.2110 | .51527 | .53480 | .52329 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7690.3** | **76234.** | **8162.0** |
| Stddev | 17.9 | 56. | 12.9 |
| %RSD | .23317 | .07409 | .15830 |
| #1 | 7677.6 | 76194. | 8171.1 |
| #2 | 7703.0 | 76274. | 8152.9 |

Sample Name: 280-42044-a-1-e msd  Acquired: 5/23/2013 20:02:15  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05438** | **2.1357** | W **2.3857** | **1.0817** | **1.1567** | **2.8590** | **.05014** | F **2.2231** | **54.077** | **.10513** |
| Stddev | .00075 | .0015 | .0013 | .0035 | .0011 | .0124 | .00012 | .0017 | .120 | .00000 |
| %RSD | 1.3814 | .06989 | .05359 | .32043 | .09898 | .43204 | .24855 | .07790 | .22234 | .00004 |
| #1 | .05385 | 2.1368 | 2.3866 | 1.0842 | 1.1575 | 2.8502 | .05005 | 2.2243 | 53.992 | .10513 |
| #2 | .05492 | 2.1346 | 2.3848 | 1.0793 | 1.1559 | 2.8677 | .05023 | 2.2218 | 54.162 | .10513 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | | |
| Low Limit | | | 3.2000 | | | | | -.10000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50504** | **.21516** | **.26088** | **4.0881** | **55.113** | **1.0570** | **50.956** | **.53627** | **1.0743** | W **611.11** |
| Stddev | .00001 | .00038 | .00007 | .0034 | .073 | .0058 | .104 | .00048 | .0009 | 1.98 |
| %RSD | .00217 | .17782 | .02750 | .08399 | .13281 | .54474 | .20346 | .08918 | .08795 | .32389 |
| #1 | .50503 | .21543 | .26094 | 4.0856 | 55.062 | 1.0529 | 50.883 | .53593 | 1.0749 | 609.71 |
| #2 | .50505 | .21489 | .26083 | 4.0905 | 55.165 | 1.0611 | 51.029 | .53661 | 1.0736 | 612.51 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51875** | W **11.085** | **.49168** | **.19154** | **.54954** | **2.1701** | **20.086** | **42.985** | W **2.0789** | **1.5165** |
| Stddev | .00031 | .010 | .00207 | .00115 | .00273 | .0098 | .009 | .020 | .0073 | .0032 |
| %RSD | .06063 | .08833 | .42126 | .59904 | .49634 | .45115 | .04712 | .04712 | .35176 | .20785 |
| #1 | .51898 | 11.092 | .49022 | .19072 | .54761 | 2.1770 | 20.093 | 42.999 | 2.0841 | 1.5143 |
| #2 | .51853 | 11.078 | .49315 | .19235 | .55147 | 2.1632 | 20.080 | 42.970 | 2.0737 | 1.5188 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | 2.0000 | | | | | | | 2.0000 | |
| Low Limit | | -1.0000 | | | | | | | -.05000 | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0507** | **1.0720** | **1.8719** | **2.2277** | **.51728** | **.53564** | **.52698** |
| Stddev | .0014 | .0006 | .0049 | .0183 | .00031 | .00248 | .00674 |
| %RSD | .13696 | .05855 | .26308 | .82207 | .05980 | .46253 | 1.2792 |
| #1 | 1.0517 | 1.0715 | 1.8754 | 2.2148 | .51750 | .53389 | .52221 |
| #2 | 1.0497 | 1.0724 | 1.8684 | 2.2407 | .51706 | .53739 | .53174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7733.0** | **77224.** | **8292.0** |
| Stddev | 26.9 | 187. | 33.8 |
| %RSD | .34771 | .24270 | .40762 |
| #1 | 7714.0 | 77356. | 8268.1 |
| #2 | 7752.0 | 77091. | 8315.9 |

Sample Name: 280-42044-a-2-c  Acquired: 5/23/2013 20:04:28  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **.08677** | **.00081** | **.07495** | **.73024** | **.00004** | **-.00053** | **2.7232** | **.00000** | **.00005** |
| Stddev | .00019 | .00099 | .00009 | .00015 | .00023 | .00002 | .00041 | .0030 | .0002 | .00021 |
| %RSD | 40.577 | 1.1463 | 11.449 | .19754 | .03131 | 36.692 | 78.116 | .11065 | 10003. | 435.57 |
| #1 | -.00034 | .08606 | .00074 | .07484 | .73040 | .00003 | -.00024 | 2.7253 | -.00012 | .00019 |
| #2 | -.00061 | .08747 | .00088 | .07505 | .73008 | .00005 | -.00082 | 2.7211 | .00012 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00339** | **.00390** | **2.7264** | **3.2415** | **.05932** | **.78150** | **.03988** | **.00196** | W **562.96** | **.00361** |
| Stddev | .00004 | .00047 | .0122 | .0522 | .00551 | .00608 | .00006 | .00023 | .04 | .00008 |
| %RSD | 1.2055 | 11.945 | .44794 | 1.6110 | 9.2833 | .77794 | .15448 | 11.787 | .00790 | 2.3503 |
| #1 | .00336 | .00422 | 2.7351 | 3.2046 | .06322 | .77720 | .03984 | .00179 | 562.93 | .00367 |
| #2 | .00342 | .00357 | 2.7178 | 3.2784 | .05543 | .78580 | .03993 | .00212 | 562.99 | .00355 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16921** | **-.00095** | **2.0695** | **.00172** | **.00314** | **8.0889** | **17.310** | **-.00056** | **.42174** | **-.00076** |
| Stddev | .00217 | .00043 | .0076 | .00187 | .00131 | .0343 | .073 | .00042 | .00017 | .00380 |
| %RSD | 1.2803 | 44.907 | .36788 | 108.31 | 41.605 | .42375 | .42375 | 75.660 | .04137 | 497.91 |
| #1 | .17074 | -.00126 | 2.0749 | .00304 | .00222 | 8.1131 | 17.362 | -.00085 | .42186 | .00192 |
| #2 | .16768 | -.00065 | 2.0641 | .00040 | .00407 | 8.0647 | 17.258 | -.00026 | .42162 | -.00345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **.00357** | **.00241** | **.00046** | **.00720** | **.00197** |
| Stddev | .00032 | .00112 | .03234 | .00020 | .00007 | .00010 |
| %RSD | 32.107 | 31.489 | 1342.4 | 43.812 | 1.0049 | 5.2001 |
| #1 | .00077 | .00277 | -.02046 | .00032 | .00715 | .00205 |
| #2 | .00122 | .00436 | .02528 | .00060 | .00725 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7836.0** | **78259.** | **8349.5** |
| Stddev | 40.2 | 504. | 13.1 |
| %RSD | .51271 | .64447 | .15704 |
| #1 | 7864.4 | 78615. | 8358.8 |
| #2 | 7807.6 | 77902. | 8340.2 |

Sample Name: 280-42044-a-3-c  Acquired: 5/23/2013 20:06:50  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00110** | **.03078** | **-.00185** | **.11803** | **.55930** | **-.00008** | **-.00166** | **3.2230** | **.00019** | **.00007** |
| Stddev | .00019 | .00057 | .00093 | .00028 | .00046 | .00003 | .00507 | .0138 | .00008 | .00001 |
| %RSD | 17.575 | 1.8659 | 50.074 | .24127 | .08202 | 33.947 | 305.65 | .42959 | 44.020 | 18.452 |
| #1 | -.00124 | .03119 | -.00120 | .11823 | .55962 | -.00010 | .00193 | 3.2328 | .00013 | .00006 |
| #2 | -.00096 | .03038 | -.00251 | .11783 | .55898 | -.00006 | -.00525 | 3.2132 | .00024 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00404** | **.00674** | **2.1212** | **2.9223** | **.06795** | **.72866** | **.02614** | **.00143** | W **530.27** | **.00178** |
| Stddev | .00008 | .00030 | .0037 | .0225 | .00373 | .00318 | .00000 | .00004 | .96 | .00001 |
| %RSD | 2.0089 | 4.4141 | .17677 | .76891 | 5.4863 | .43670 | .00781 | 2.5592 | .18085 | .39205 |
| #1 | .00399 | .00695 | 2.1185 | 2.9064 | .07059 | .72641 | .02614 | .00141 | 530.95 | .00177 |
| #2 | .00410 | .00653 | 2.1238 | 2.9382 | .06532 | .73091 | .02615 | .00146 | 529.59 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11271** | **-.00105** | **.35494** | **-.00127** | **.00273** | **8.9022** | **19.051** | **-.00077** | **.47898** | **-.00031** |
| Stddev | .00056 | .00096 | .00253 | .00237 | .00131 | .0230 | .049 | .00046 | .00013 | .00061 |
| %RSD | .49275 | 91.858 | .71277 | 186.38 | 48.120 | .25859 | .25859 | 59.587 | .02785 | 201.00 |
| #1 | .11310 | -.00037 | .35673 | -.00295 | .00180 | 8.9185 | 19.086 | -.00109 | .47907 | -.00074 |
| #2 | .11231 | -.00173 | .35315 | .00040 | .00366 | 8.8859 | 19.016 | -.00044 | .47888 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00135** | **-.00008** | **.00017** | **.00365** | **.00097** |
| Stddev | .00005 | .00172 | .00562 | .00025 | .00010 | .00002 |
| %RSD | 47.062 | 127.12 | 7452.6 | 151.91 | 2.7358 | 2.4367 |
| #1 | .00013 | .00014 | -.00405 | .00035 | .00372 | .00099 |
| #2 | .00007 | .00257 | .00390 | -.00001 | .00358 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7895.3** | **79186.** | **8388.1** |
| Stddev | .2 | 58. | 16.1 |
| %RSD | .00265 | .07314 | .19220 |
| #1 | 7895.4 | 79145. | 8376.7 |
| #2 | 7895.1 | 79227. | 8399.5 |

Sample Name: 280-42465-f-1-a  Acquired: 5/23/2013 20:09:12  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175340 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00109** | **6.3506** | **-.00008** | **.08238** | **.03384** | **.00021** | **.00081** | **10.155** | **.00052** | **.00141** |
| Stddev | .00073 | .0025 | .00040 | .00025 | .00052 | .00008 | .00049 | .018 | .00016 | .00003 |
| %RSD | 66.882 | .03896 | 481.66 | .30408 | 1.5395 | 38.061 | 60.156 | .17582 | 29.572 | 2.1433 |
| #1 | -.00160 | 6.3489 | -.00036 | .08220 | .03348 | .00015 | .00047 | 10.143 | .00063 | .00139 |
| #2 | -.00057 | 6.3524 | .00020 | .08256 | .03421 | .00026 | .00116 | 10.168 | .00042 | .00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00554** | **.01173** | **7.5113** | **4.2191** | **.00346** | **5.0874** | **.04742** | **.00254** | **2.1320** | **.00307** |
| Stddev | .00009 | .00026 | .0125 | .0312 | .00163 | .0127 | .00015 | .00008 | .0158 | .00012 |
| %RSD | 1.6923 | 2.1956 | .16612 | .73964 | 47.091 | .25017 | .31952 | 3.0056 | .74081 | 3.8712 |
| #1 | .00547 | .01191 | 7.5202 | 4.1970 | .00230 | 5.0964 | .04731 | .00259 | 2.1432 | .00298 |
| #2 | .00560 | .01154 | 7.5025 | 4.2411 | .00461 | 5.0784 | .04753 | .00248 | 2.1208 | .00315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41917** | **.00276** | **1.3795** | **.00073** | **.00448** | **7.6021** | **16.269** | **.00060** | **.01913** | **.00356** |
| Stddev | .00061 | .00063 | .0036 | .00029 | .00205 | .0186 | .040 | .00052 | .00002 | .00081 |
| %RSD | .14496 | 22.872 | .25751 | 39.246 | 45.727 | .24516 | .24516 | 85.921 | .11684 | 22.723 |
| #1 | .41960 | .00232 | 1.3770 | .00053 | .00593 | 7.5889 | 16.240 | .00097 | .01915 | .00413 |
| #2 | .41874 | .00321 | 1.3820 | .00093 | .00303 | 7.6153 | 16.297 | .00024 | .01912 | .00299 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19200** | **-.00022** | **.04326** | **.01153** | **.02902** | **.00419** |
| Stddev | .00179 | .00059 | .00996 | .00001 | .00016 | .00054 |
| %RSD | .93041 | 269.00 | 23.013 | .07900 | .54609 | 12.791 |
| #1 | .19073 | -.00064 | .05030 | .01154 | .02913 | .00457 |
| #2 | .19326 | .00020 | .03622 | .01152 | .02890 | .00381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8633.3** | **88702.** | **8861.0** |
| Stddev | 11.0 | 348. | 77.7 |
| %RSD | .12784 | .39230 | .87675 |
| #1 | 8641.1 | 88456. | 8915.9 |
| #2 | 8625.5 | 88948. | 8806.1 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 20:11:27 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00120** | **49.730** | **.00122** | **.00230** | **.00050** | **.00003** | **1.0411** | **-.00311** | **.00040** | **.00049** | **.00000** | **.00003** |
| Stddev | .00043 | .189 | .00055 | .00022 | .00005 | .00001 | .0032 | .00371 | .00005 | .00041 | .0001 | .00061 |
| %RSD | 36.185 | .38040 | 45.236 | 9.6499 | 9.6143 | 49.639 | .30800 | 119.33 | 13.244 | 83.248 | 3884.2 | 2340.4 |
| #1 | -.00151 | 49.596 | .00161 | .00245 | .00053 | .00002 | 1.0434 | -.00573 | .00036 | .00078 | .00004 | -.00041 |
| #2 | -.00089 | 49.864 | .00083 | .00214 | .00047 | .00003 | 1.0389 | -.00049 | .00043 | .00020 | -.00005 | .00046 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.940** | **.10994** | **.00199** | **.04035** | **.00002** | **-.00033** | **258.44** | **.00037** | **.00405** | **-.00282** | **4.9859** | **-.00108** |
| Stddev | .200 | .03380 | .00070 | .00177 | .00000 | .00019 | 1.31 | .00014 | .00073 | .00108 | .0010 | .00005 |
| %RSD | .39309 | 30.743 | 35.400 | 4.3885 | 24.746 | 57.125 | .50552 | 38.704 | 18.160 | 38.230 | .02049 | 4.8885 |
| #1 | 50.798 | .13384 | .00149 | .04160 | .00002 | -.00047 | 257.51 | .00047 | .00353 | -.00206 | 4.9866 | -.00112 |
| #2 | 51.081 | .08604 | .00249 | .03910 | .00002 | -.00020 | 259.36 | .00027 | .00457 | -.00358 | 4.9852 | -.00104 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00273** | **.01645** | **.03520** | **.00027** | **.00034** | **4.9726** | **.00149** | **.00200** | W **10.598** | **.00004** | **.00108** | **-.00059** |
| Stddev | .00040 | .01397 | .02989 | .00095 | .00009 | .0109 | .00059 | .00118 | .023 | .00066 | .00062 | .00059 |
| %RSD | 14.614 | 84.895 | 84.895 | 351.00 | 27.170 | .21921 | 39.739 | 58.897 | .22111 | 1644.2 | 57.275 | 99.467 |
| #1 | .00245 | .02633 | .05634 | .00094 | .00027 | 4.9649 | .00107 | .00284 | 10.615 | -.00042 | .00064 | -.00017 |
| #2 | .00302 | .00658 | .01407 | -.00040 | .00040 | 4.9803 | .00191 | .00117 | 10.582 | .00050 | .00151 | -.00100 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8117.7** | **81507.** | **8453.1** |
| Stddev | 10.3 | 98. | 89.9 |
| %RSD | .12636 | .12052 | 1.0641 |
| #1 | 8110.4 | 81577. | 8516.7 |
| #2 | 8124.9 | 81438. | 8389.5 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 20:13:47 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52367** | **.52585** | **1.0304** | **.52263** | **.50871** | **.49191** | **-.00052** | **5.0061** | **.50389** | **.51418** | **.52429** | **.51433** | **2.4758** |
| Stddev | .00315 | .00249 | .0007 | .00189 | .00036 | .00035 | .00059 | .0090 | .00085 | .00082 | .00114 | .00028 | .0108 |
| %RSD | .60171 | .47425 | .07058 | .36070 | .07030 | .07059 | 113.73 | .17971 | .16877 | .16012 | .21657 | .05509 | .43449 |
| #1 | .52144 | .52761 | 1.0299 | .52396 | .50845 | .49167 | -.00094 | 5.0125 | .50449 | .51477 | .52510 | .51413 | 2.4834 |
| #2 | .52589 | .52408 | 1.0309 | .52130 | .50896 | .49216 | -.00010 | 4.9998 | .50329 | .51360 | .52349 | .51453 | 2.4682 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.978** | **.98861** | **20.212** | **.50247** | **.51918** | **5.1126** | **.52745** | **1.0262** | **1.0128** | **.00439** | **1.0238** | **1.0399** | **5.2447** |
| Stddev | .054 | .00020 | .059 | .00125 | .00169 | .0393 | .00217 | .0026 | .0008 | .00128 | .0047 | .0007 | .0094 |
| %RSD | .10896 | .01985 | .29287 | .24839 | .32542 | .76765 | .41215 | .25269 | .07983 | 29.235 | .45980 | .07115 | .17920 |
| #1 | 49.940 | .98875 | 20.170 | .50158 | .52038 | 5.1404 | .52899 | 1.0280 | 1.0134 | .00530 | 1.0272 | 1.0394 | 5.2380 |
| #2 | 50.017 | .98848 | 20.254 | .50335 | .51799 | 5.0849 | .52591 | 1.0243 | 1.0123 | .00349 | 1.0205 | 1.0404 | 5.2513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.224** | **1.0341** | **.50641** | **.00222** | **.50962** | **1.0347** | **.03349** | **.49202** | **.50929** | **.50887** |
| Stddev | .020 | .0024 | .00024 | .00115 | .00011 | .0003 | .02213 | .00282 | .00085 | .00004 |
| %RSD | .17920 | .22981 | .04758 | 51.725 | .02093 | .03200 | 66.080 | .57261 | .16653 | .00738 |
| #1 | 11.209 | 1.0358 | .50658 | .00304 | .50954 | 1.0345 | .04913 | .49003 | .50869 | .50889 |
| #2 | 11.238 | 1.0324 | .50624 | .00141 | .50969 | 1.0350 | .01784 | .49402 | .50989 | .50884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8355.7** | **85334.** | **8469.1** |
| Stddev | 18.7 | 24. | 68.9 |
| %RSD | .22327 | .02776 | .81341 |
| #1 | 8342.5 | 85317. | 8420.4 |
| #2 | 8368.9 | 85351. | 8517.9 |

Sample Name: CCB  Acquired: 5/23/2013 20:15:54  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00094** | **.00081** | **.00064** | **.00123** | **-.00012** | **.00002** | **-.00075** | **.00003** | **.00010** | **.00002** | **.00012** |
| Stddev | .00048 | .00017 | .00101 | .00064 | .00002 | .00003 | .00106 | .00130 | .00002 | .00021 | .00011 |
| %RSD | 51.093 | 20.605 | 156.90 | 52.179 | 19.151 | 144.26 | 141.15 | 4478.3 | 22.568 | 1256.9 | 87.079 |
| #1 | -.00128 | .00069 | -.00007 | .00169 | -.00011 | .00005 | .00000 | -.00089 | .00012 | -.00013 | .00020 |
| #2 | -.00060 | .00093 | .00135 | .00078 | -.00014 | .00000 | -.00150 | .00095 | .00009 | .00017 | .00005 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **-.00068** | **.12612** | **.00072** | **.00351** | **.00002** | **.00017** | **.05124** | **.00006** | **.00061** | **-.00093** |
| Stddev | .00039 | .00228 | .05538 | .00106 | .00025 | .00005 | .00008 | .02291 | .00024 | .00071 | .00032 |
| %RSD | 100.64 | 337.60 | 43.910 | 146.80 | 7.2491 | 274.11 | 49.232 | 44.702 | 391.76 | 116.35 | 34.036 |
| #1 | -.00011 | -.00229 | .16528 | -.00003 | .00369 | -.00002 | .00011 | .06744 | .00023 | .00011 | -.00070 |
| #2 | -.00067 | .00094 | .08696 | .00148 | .00333 | .00005 | .00023 | .03505 | -.00011 | .00111 | -.00115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00446** | **.00229** | **.00169** | **.02236** | **.04786** | **-.00058** | **.00009** | **-.00093** | **-.00019** | **-.00004** | **.02972** |
| Stddev | .00030 | .00032 | .00315 | .01073 | .02297 | .00063 | .00011 | .00026 | .00016 | .00102 | .01773 |
| %RSD | 6.7118 | 14.080 | 186.34 | 47.997 | 47.997 | 109.00 | 126.15 | 27.869 | 86.531 | 2281.1 | 59.657 |
| #1 | .00425 | .00206 | .00391 | .02995 | .06410 | -.00102 | .00017 | -.00112 | -.00007 | -.00076 | .01718 |
| #2 | .00467 | .00252 | -.00054 | .01477 | .03162 | -.00013 | .00001 | -.00075 | -.00030 | .00067 | .04225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00019** | **.00238** | **.00207** |
| Stddev | .00037 | .00028 | .00200 |
| %RSD | 194.73 | 11.849 | 96.556 |
| #1 | .00045 | .00258 | .00349 |
| #2 | -.00007 | .00218 | .00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8373.1** | **87107.** | **8478.6** |
| Stddev | 30.1 | 45. | 10.6 |
| %RSD | .35933 | .05136 | .12550 |
| #1 | 8394.4 | 87075. | 8471.1 |
| #2 | 8351.8 | 87139. | 8486.1 |

Sample Name: CCVL2067279 Acquired: 5/23/2013 20:18:08 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00974** | **.10831** | **.01599** | **.10751** | **.01027** | **.00105** | **.11730** | **.20555** | **.00528** | **.01084** | **.01069** | **.01604** | **.10107** | **3.1207** |
| Stddev | .00020 | .00015 | .00074 | .00022 | .00024 | .00006 | .00162 | .00012 | .00008 | .00009 | .00013 | .00033 | .00161 | .0539 |
| %RSD | 2.0131 | .13693 | 4.6067 | .20687 | 2.3594 | 6.0052 | 1.3793 | .05894 | 1.4448 | .87189 | 1.2276 | 2.0423 | 1.5963 | 1.7275 |
| #1 | .00988 | .10821 | .01651 | .10735 | .01009 | .00110 | .11845 | .20546 | .00533 | .01091 | .01059 | .01581 | .10221 | 3.1589 |
| #2 | .00961 | .10842 | .01547 | .10767 | .01044 | .00101 | .11616 | .20563 | .00523 | .01078 | .01078 | .01627 | .09993 | 3.0826 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01226** | **.21441** | **.01033** | **.02115** | **1.0756** | **.04365** | **3.0597** | **.00848** | **.00315** | **.01186** | **.01938** | **.55270** | **1.1828** | **.10791** |
| Stddev | .00139 | .00206 | .00009 | .00003 | .0006 | .00006 | .0050 | .00054 | .00011 | .00037 | .00428 | .02029 | .0434 | .00053 |
| %RSD | 11.348 | .96166 | .82531 | .15153 | .05456 | .14757 | .16275 | 6.3191 | 3.6118 | 3.1251 | 22.112 | 3.6710 | 3.6710 | .49175 |
| #1 | .01127 | .21295 | .01039 | .02117 | 1.0751 | .04360 | 3.0633 | .00886 | .00323 | .01160 | .02241 | .56705 | 1.2135 | .10828 |
| #2 | .01324 | .21587 | .01027 | .02113 | 1.0760 | .04369 | 3.0562 | .00810 | .00307 | .01212 | .01635 | .53835 | 1.1521 | .10753 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01038** | **.01601** | **.00983** | **.01803** | **.06978** | **.00934** | **.02303** | **.01722** |
| Stddev | .00006 | .00049 | .00002 | .00024 | .02460 | .00076 | .00054 | .00206 |
| %RSD | .59496 | 3.0287 | .19808 | 1.3370 | 35.251 | 8.1066 | 2.3552 | 11.955 |
| #1 | .01042 | .01567 | .00984 | .01820 | .05239 | .00881 | .02341 | .01868 |
| #2 | .01033 | .01636 | .00982 | .01786 | .08717 | .00988 | .02265 | .01577 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8475.3** | **87611.** | **8547.9** |
| Stddev | 11.2 | 103. | 24.5 |
| %RSD | .13210 | .11806 | .28717 |
| #1 | 8483.2 | 87538. | 8565.3 |
| #2 | 8467.4 | 87684. | 8530.6 |

Sample Name: mb 280-175337/1-a  Acquired: 5/23/2013 20:20:23  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00101** | **.00799** | **-.00060** | **.00085** | **-.00017** | **.00006** | **-.00214** | **.01203** | **.00025** | **-.00003** |
| Stddev | .00046 | .00002 | .00099 | .00056 | .00009 | .00006 | .00137 | .00206 | .00016 | .00008 |
| %RSD | 45.941 | .30891 | 165.06 | 65.553 | 52.640 | 100.88 | 64.117 | 17.114 | 62.525 | 293.19 |
| #1 | -.00068 | .00797 | .00010 | .00046 | -.00011 | .00010 | -.00117 | .01057 | .00036 | -.00009 |
| #2 | -.00134 | .00801 | -.00129 | .00124 | -.00023 | .00002 | -.00311 | .01348 | .00014 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **-.00030** | **.00911** | **.08248** | **.00194** | **.00561** | **.00014** | **.00001** | **.05196** | **-.00003** |
| Stddev | .00002 | .00005 | .00357 | .02566 | .00292 | .00133 | .00002 | .00005 | .01034 | .00045 |
| %RSD | 37.767 | 17.346 | 39.228 | 31.107 | 150.57 | 23.778 | 15.395 | 784.69 | 19.902 | 1344.2 |
| #1 | .00007 | -.00026 | .00658 | .06434 | -.00013 | .00655 | .00013 | .00004 | .04464 | .00029 |
| #2 | .00004 | -.00033 | .01164 | .10062 | .00400 | .00467 | .00016 | -.00003 | .05927 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25379** | **-.00086** | **.00463** | **-.00065** | **.00161** | **.05912** | **.12651** | **-.00062** | **-.00008** | **.00032** |
| Stddev | .00051 | .00001 | .00066 | .00009 | .00354 | .00049 | .00105 | .00013 | .00019 | .00013 |
| %RSD | .20062 | 1.0853 | 14.151 | 13.696 | 219.65 | .83343 | .83343 | 20.885 | 242.05 | 41.107 |
| #1 | .25343 | -.00085 | .00417 | -.00071 | -.00089 | .05947 | .12726 | -.00071 | -.00021 | .00042 |
| #2 | .25415 | -.00087 | .00510 | -.00058 | .00411 | .05877 | .12577 | -.00053 | .00006 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.00015** | **.00420** | **-.00045** | **.00370** | **.00352** |
| Stddev | .00008 | .00097 | .01369 | .00004 | .00020 | .00130 |
| %RSD | 78.212 | 653.01 | 326.28 | 7.8900 | 5.3338 | 37.038 |
| #1 | -.00016 | -.00054 | -.00549 | -.00047 | .00356 | .00260 |
| #2 | -.00005 | .00084 | .01388 | -.00042 | .00384 | .00444 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8386.1** | **87121.** | **8495.0** |
| Stddev | 39.0 | 239. | 12.0 |
| %RSD | .46515 | .27453 | .14137 |
| #1 | 8413.7 | 86951. | 8486.5 |
| #2 | 8358.5 | 87290. | 8503.5 |

Sample Name: lcs 280-175337/2-a  Acquired: 5/23/2013 20:22:37  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04478** | **1.7530** | **.89008** | **.90175** | F **1.7427** | F **.04210** | **1.9270** | F **42.690** | F **.08751** | F **.43163** |
| Stddev | .00096 | .0009 | .00040 | .00321 | .0010 | .00000 | .0007 | .007 | .00018 | .00048 |
| %RSD | 2.1339 | .05265 | .04455 | .35549 | .05663 | .00950 | .03666 | .01625 | .20415 | .11187 |
| #1 | .04410 | 1.7524 | .89036 | .89949 | 1.7420 | .04210 | 1.9265 | 42.685 | .08738 | .43129 |
| #2 | .04545 | 1.7537 | .88980 | .90402 | 1.7434 | .04210 | 1.9275 | 42.694 | .08763 | .43197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | None | Chk Fail | Chk Fail | Chk Fail |
| High Limit | | | | | 2.2499 | .05650 | | 55.500 | .11100 | .55500 |
| Low Limit | | | | | 1.7900 | .04450 | | 44.750 | .08800 | .44500 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18062** | **.22085** | **.91676** | F **42.735** | F **.83957** | F **43.335** | F **.42881** | **.91034** | **45.524** | F **.44498** |
| Stddev | .00064 | .00031 | .00551 | .067 | .00281 | .156 | .00033 | .00209 | .274 | .00047 |
| %RSD | .35556 | .14253 | .60091 | .15754 | .33437 | .36045 | .07688 | .22972 | .60229 | .10615 |
| #1 | .18017 | .22108 | .92065 | 42.687 | .83758 | 43.224 | .42858 | .90886 | 45.718 | .44532 |
| #2 | .18108 | .22063 | .91286 | 42.783 | .84155 | 43.445 | .42904 | .91182 | 45.330 | .44465 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | 57.000 | 1.1400 | 56.500 | .55000 | | | .55500 |
| Low Limit | | | | 44.500 | .89000 | 46.000 | .45000 | | | .44500 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.1685** | F **.42811** | **.01858** | **.46192** | **1.7986** | **9.2902** | **19.881** | **1.7861** | F **.86635** | **.87853** |
| Stddev | .0042 | .00046 | .00213 | .00035 | .0023 | .0344 | .074 | .0022 | .00012 | .00025 |
| %RSD | .04526 | .10708 | 11.475 | .07508 | .12782 | .37064 | .37064 | .12423 | .01429 | .02875 |
| #1 | 9.1655 | .42779 | .01707 | .46167 | 1.8002 | 9.3145 | 19.933 | 1.7877 | .86626 | .87835 |
| #2 | 9.1714 | .42843 | .02008 | .46216 | 1.7969 | 9.2658 | 19.829 | 1.7845 | .86644 | .87871 |
| Check ? | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .55000 | | | | | | | 1.1100 | |
| Low Limit | | .44500 | | | | | | | .90000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.89408** | F **1.7179** | **1.9237** | F **.42898** | **.44746** | **.44274** |
| Stddev | .00092 | .0044 | .0026 | .00078 | .00057 | .00380 |
| %RSD | .10240 | .25670 | .13561 | .18104 | .12698 | .85830 |
| #1 | .89473 | 1.7210 | 1.9256 | .42843 | .44705 | .44542 |
| #2 | .89343 | 1.7148 | 1.9219 | .42953 | .44786 | .44005 |
| Check ? | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | 1.1100 | 2.2000 | | .55500 | | |
| Low Limit | .90000 | 1.7600 | | .45000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8026.0** | **81484.** | **8325.8** |
| Stddev | 4.0 | 551. | 91.0 |
| %RSD | .04938 | .67590 | 1.0933 |
| #1 | 8028.9 | 81873. | 8390.1 |
| #2 | 8023.2 | 81095. | 8261.4 |

Sample Name: 280-42461-d-1-b  Acquired: 5/23/2013 20:24:43  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00098** | **.02831** | **-.00243** | **.20864** | **.03624** | **-.00004** | **-.00827** | **264.86** | **.00073** | **.00040** |
| Stddev | .00046 | .00008 | .00057 | .00119 | .00030 | .00000 | .00312 | 3.86 | .00007 | .00020 |
| %RSD | 47.478 | .27513 | 23.253 | .56835 | .83404 | 3.4924 | 37.766 | 1.4570 | 9.1888 | 50.969 |
| #1 | -.00065 | .02826 | -.00283 | .20948 | .03645 | -.00003 | -.01047 | 267.59 | .00078 | .00054 |
| #2 | -.00130 | .02837 | -.00203 | .20780 | .03603 | -.00004 | -.00606 | 262.14 | .00068 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00076** | **.05807** | **.60427** | **.00309** | **35.746** | **.86040** | **.00069** | **12.741** | **.00347** |
| Stddev | .00007 | .00006 | .00065 | .06563 | .00007 | .012 | .00007 | .00016 | .181 | .00033 |
| %RSD | 16.598 | 7.4858 | 1.1117 | 10.861 | 2.1541 | .03358 | .00780 | 23.829 | 1.4235 | 9.6304 |
| #1 | .00035 | .00080 | .05761 | .65068 | .00314 | 35.754 | .86045 | .00057 | 12.612 | .00323 |
| #2 | .00045 | .00072 | .05853 | .55786 | .00305 | 35.737 | .86036 | .00080 | 12.869 | .00370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44820** | **.00001** | F **235.28** | **.00112** | **.00270** | **3.9746** | **8.5057** | **.00017** | **.76361** | **-.00091** |
| Stddev | .00314 | .00022 | .20 | .00115 | .00167 | .0086 | .0185 | .00026 | .00026 | .00109 |
| %RSD | .70043 | 1836.5 | .08381 | 102.20 | 62.056 | .21712 | .21712 | 148.71 | .03378 | 119.62 |
| #1 | .44598 | .00017 | 235.15 | .00193 | .00388 | 3.9685 | 8.4926 | .00036 | .76379 | -.00169 |
| #2 | .45042 | -.00015 | 235.42 | .00031 | .00151 | 3.9807 | 8.5187 | -.00001 | .76343 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00284** | **-.00977** | **.00492** | **.00761** | **.00145** |
| Stddev | .00027 | .00034 | .04861 | .00017 | .00041 | .00040 |
| %RSD | 1024.5 | 11.933 | 497.70 | 3.4258 | 5.4540 | 27.662 |
| #1 | -.00017 | .00308 | .02461 | .00480 | .00731 | .00173 |
| #2 | .00022 | .00260 | -.04414 | .00504 | .00790 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7687.2** | **78684.** | **8094.9** |
| Stddev | 10.7 | 7. | 18.4 |
| %RSD | .13956 | .00847 | .22672 |
| #1 | 7679.6 | 78689. | 8081.9 |
| #2 | 7694.8 | 78680. | 8107.9 |

Sample Name: 280-42461-d-2-b  Acquired: 5/23/2013 20:27:04  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.01764** | **-.00176** | **.02062** | **.03790** | **.00004** | **-.00573** | **109.87** | **.00048** | **.00022** |
| Stddev | .00002 | .00003 | .00082 | .00044 | .00005 | .00006 | .00230 | .00 | .00011 | .00022 |
| %RSD | 7.2768 | .16195 | 46.483 | 2.1483 | .12464 | 133.40 | 40.090 | .00035 | 22.050 | 100.34 |
| #1 | -.00026 | .01766 | -.00234 | .02093 | .03786 | .00000 | -.00735 | 109.87 | .00055 | .00038 |
| #2 | -.00024 | .01762 | -.00118 | .02031 | .03793 | .00008 | -.00410 | 109.87 | .00040 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00137** | **.08555** | **1.7035** | **.00320** | **12.521** | **.60389** | **.00029** | **14.796** | **.00313** |
| Stddev | .00031 | .00042 | .00215 | .0322 | .00214 | .015 | .00067 | .00012 | .093 | .00002 |
| %RSD | 102.81 | 30.436 | 2.5168 | 1.8919 | 66.938 | .12240 | .11013 | 41.791 | .62757 | .62787 |
| #1 | .00052 | .00108 | .08403 | 1.6807 | .00471 | 12.531 | .60436 | .00037 | 14.730 | .00314 |
| #2 | .00008 | .00167 | .08707 | 1.7263 | .00168 | 12.510 | .60342 | .00020 | 14.861 | .00311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34461** | **-.00012** | **61.764** | **.00012** | **.00020** | **5.3617** | **11.474** | **.00003** | **.23151** | **.00230** |
| Stddev | .00035 | .00255 | .041 | .00144 | .00132 | .0343 | .073 | .00098 | .00044 | .00200 |
| %RSD | .10284 | 2213.0 | .06690 | 1198.2 | 650.04 | .63888 | .63888 | 3087.9 | .19032 | 86.911 |
| #1 | .34436 | .00169 | 61.794 | .00114 | -.00073 | 5.3374 | 11.422 | .00072 | .23120 | .00089 |
| #2 | .34486 | -.00192 | 61.735 | -.00090 | .00114 | 5.3859 | 11.526 | -.00066 | .23182 | .00372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **-.00024** | **-.04094** | **.00222** | **.00586** | **.00003** |
| Stddev | .00037 | .00005 | .02129 | .00085 | .00025 | .00038 |
| %RSD | 98.887 | 20.293 | 51.993 | 38.475 | 4.3239 | 1481.7 |
| #1 | -.00011 | -.00027 | -.02589 | .00161 | .00604 | -.00024 |
| #2 | -.00063 | -.00020 | -.05599 | .00282 | .00568 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7897.6** | **80939.** | **8127.7** |
| Stddev | 16.0 | 135. | .3 |
| %RSD | .20277 | .16626 | .00327 |
| #1 | 7886.2 | 80844. | 8127.6 |
| #2 | 7908.9 | 81035. | 8127.9 |

Sample Name: 280-42461-d-3-b  Acquired: 5/23/2013 20:29:20  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00161** | **3.9713** | **.00524** | **.05443** | **.14630** | **.00020** | **-.00593** | **139.33** | **.00229** | **.08370** |
| Stddev | .00003 | .0083 | .00048 | .00008 | .00001 | .00003 | .00105 | .07 | .00005 | .00013 |
| %RSD | 2.1286 | .20841 | 9.1559 | .13969 | .00786 | 14.375 | 17.708 | .05210 | 2.1783 | .15650 |
| #1 | -.00163 | 3.9771 | .00490 | .05438 | .14630 | .00022 | -.00519 | 139.28 | .00226 | .08361 |
| #2 | -.00159 | 3.9654 | .00558 | .05448 | .14629 | .00018 | -.00668 | 139.38 | .00233 | .08379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00657** | **.01363** | **22.777** | **1.5439** | **.00768** | **14.484** | W **19.932** | **-.00005** | **18.770** | **.06354** |
| Stddev | .00017 | .00008 | .000 | .0198 | .00037 | .025 | .156 | .00008 | .178 | .00011 |
| %RSD | 2.5959 | .58515 | .00030 | 1.2807 | 4.8757 | .17403 | .78025 | 183.59 | .94744 | .16554 |
| #1 | .00669 | .01368 | 22.777 | 1.5579 | .00742 | 14.501 | 20.042 | -.00011 | 18.644 | .06362 |
| #2 | .00645 | .01357 | 22.777 | 1.5299 | .00795 | 14.466 | 19.822 | .00001 | 18.896 | .06347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4121** | **.00439** | **44.056** | **-.00055** | **.00333** | **15.143** | **32.406** | **.00013** | **.32362** | **.00191** |
| Stddev | .0015 | .00109 | .051 | .00026 | .00128 | .002 | .004 | .00060 | .00025 | .00110 |
| %RSD | .10453 | 24.853 | .11537 | 47.211 | 38.311 | .01340 | .01340 | 472.10 | .07750 | 57.886 |
| #1 | 1.4132 | .00516 | 44.020 | -.00037 | .00243 | 15.144 | 32.409 | .00055 | .32345 | .00269 |
| #2 | 1.4111 | .00362 | 44.092 | -.00074 | .00423 | 15.142 | 32.403 | -.00030 | .32380 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11104** | **.01080** | **-.04835** | **.07962** | **.12133** | **.00472** |
| Stddev | .00628 | .00084 | .01689 | .00043 | .00053 | .00180 |
| %RSD | 5.6546 | 7.8090 | 34.931 | .54466 | .43817 | 38.215 |
| #1 | .11548 | .01021 | -.06029 | .07993 | .12171 | .00599 |
| #2 | .10660 | .01140 | -.03640 | .07931 | .12095 | .00344 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8049.6** | **81782.** | **8307.8** |
| Stddev | 11.7 | 114. | 9.6 |
| %RSD | .14559 | .13946 | .11566 |
| #1 | 8041.4 | 81702. | 8301.0 |
| #2 | 8057.9 | 81863. | 8314.6 |

Sample Name: 280-42461-d-4-b  Acquired: 5/23/2013 20:31:44  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00112** | **.05955** | **-.00228** | **.01000** | **.05073** | **.00006** | **-.00190** | **29.832** | **.00013** | **.00004** |
| Stddev | .00027 | .00021 | .00086 | .00058 | .00029 | .00005 | .00060 | .060 | .00007 | .00007 |
| %RSD | 23.871 | .35954 | 37.569 | 5.8396 | .57578 | 81.962 | 31.368 | .20121 | 52.223 | 176.67 |
| #1 | -.00131 | .05940 | -.00289 | .01041 | .05052 | .00002 | -.00148 | 29.874 | .00008 | .00009 |
| #2 | -.00093 | .05970 | -.00168 | .00959 | .05094 | .00009 | -.00232 | 29.789 | .00018 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.00056** | **.12097** | **.50484** | **-.00103** | **2.9794** | **.08622** | **.00002** | **3.2312** | **.00293** |
| Stddev | .00009 | .00029 | .00088 | .02685 | .00009 | .0181 | .00010 | .00016 | .0166 | .00002 |
| %RSD | 8.7130 | 52.146 | .72607 | 5.3181 | 8.3420 | .60708 | .11336 | 638.04 | .51236 | .52565 |
| #1 | .00095 | .00035 | .12159 | .48586 | -.00097 | 2.9666 | .08616 | .00014 | 3.2195 | .00292 |
| #2 | .00108 | .00076 | .12035 | .52382 | -.00109 | 2.9922 | .08629 | -.00009 | 3.2429 | .00294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44497** | **-.00142** | **17.615** | **.00066** | **.00355** | **7.0541** | **15.096** | **-.00022** | **.09334** | **-.00052** |
| Stddev | .00226 | .00021 | .019 | .00172 | .00113 | .0454 | .097 | .00058 | .00029 | .00144 |
| %RSD | .50692 | 14.848 | .10736 | 258.54 | 31.998 | .64284 | .64284 | 261.01 | .30688 | 277.38 |
| #1 | .44656 | -.00157 | 17.629 | .00188 | .00435 | 7.0861 | 15.164 | -.00063 | .09314 | .00050 |
| #2 | .44337 | -.00127 | 17.602 | -.00055 | .00274 | 7.0220 | 15.027 | .00019 | .09354 | -.00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00130** | **.02532** | **.00074** | **.19972** | **-.00140** |
| Stddev | .00016 | .00072 | .06218 | .00053 | .00078 | .00105 |
| %RSD | 61.058 | 55.575 | 245.56 | 72.160 | .38886 | 75.073 |
| #1 | .00039 | .00079 | -.01865 | .00036 | .19917 | -.00214 |
| #2 | .00015 | .00182 | .06929 | .00112 | .20026 | -.00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8191.5** | **83578.** | **8190.7** |
| Stddev | 4.2 | 434. | 13.7 |
| %RSD | .05108 | .51882 | .16696 |
| #1 | 8194.5 | 83885. | 8200.4 |
| #2 | 8188.6 | 83271. | 8181.0 |

Sample Name: 280-42478-e-1-a  Acquired: 5/23/2013 20:34:01  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00151** | **.00856** | **-.00164** | **.04652** | **.00973** | **.00004** | **-.00029** | **13.058** | **.00024** | **.00001** |
| Stddev | .00067 | .00005 | .00088 | .00023 | .00032 | .00005 | .00178 | .022 | .00010 | .00006 |
| %RSD | 44.621 | .54664 | 53.830 | .49766 | 3.3162 | 120.81 | 622.43 | .17190 | 42.688 | 899.52 |
| #1 | -.00103 | .00853 | -.00226 | .04668 | .00950 | .00008 | -.00154 | 13.042 | .00017 | -.00004 |
| #2 | -.00199 | .00860 | -.00102 | .04636 | .00996 | .00001 | .00097 | 13.074 | .00032 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00193** | **.37937** | **2.9720** | **.06175** | **2.8603** | **.03548** | **.00031** | W **564.20** | **.00058** |
| Stddev | .00002 | .00029 | .00194 | .0394 | .00090 | .0127 | .00000 | .00005 | .38 | .00041 |
| %RSD | 7.3404 | 14.879 | .51126 | 1.3275 | 1.4535 | .44582 | .01271 | 16.364 | .06718 | 70.973 |
| #1 | .00031 | .00173 | .38074 | 2.9999 | .06239 | 2.8513 | .03548 | .00034 | 564.47 | .00086 |
| #2 | .00028 | .00213 | .37800 | 2.9441 | .06112 | 2.8693 | .03547 | .00027 | 563.93 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25688** | **-.00143** | F **253.06** | **.00008** | **.00517** | **4.6114** | **9.8684** | **-.00055** | **.45134** | **-.00014** |
| Stddev | .00038 | .00096 | .08 | .00026 | .00197 | .0164 | .0351 | .00064 | .00025 | .00317 |
| %RSD | .14652 | 66.836 | .03320 | 345.50 | 38.163 | .35559 | .35559 | 115.58 | .05641 | 2319.0 |
| #1 | .25714 | -.00075 | 253.00 | .00026 | .00378 | 4.6230 | 9.8932 | -.00101 | .45152 | .00211 |
| #2 | .25661 | -.00211 | 253.12 | -.00011 | .00657 | 4.5998 | 9.8436 | -.00010 | .45116 | -.00238 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00083** | **.00006** | **-.01506** | **.00072** | **.00668** | **-.00001** |
| Stddev | .00031 | .00101 | .06395 | .00008 | .00004 | .00304 |
| %RSD | 37.542 | 1579.8 | 424.49 | 11.114 | .57697 | 48373. |
| #1 | -.00104 | .00078 | -.06028 | .00066 | .00671 | -.00216 |
| #2 | -.00061 | -.00065 | .03015 | .00077 | .00665 | .00214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7832.9** | **76657.** | **8143.7** |
| Stddev | 7.9 | 131. | 2.8 |
| %RSD | .10121 | .17151 | .03494 |
| #1 | 7827.3 | 76564. | 8141.7 |
| #2 | 7838.5 | 76750. | 8145.7 |

Sample Name: 280-42468-a-5-a  Acquired: 5/23/2013 20:36:24  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00143** | **.57722** | **.00119** | **.18593** | **.13783** | **.00005** | **-.00565** | **118.29** | **.00088** | **.00220** |
| Stddev | .00092 | .00083 | .00208 | .00019 | .00014 | .00000 | .00115 | .02 | .00001 | .00016 |
| %RSD | 64.609 | .14421 | 174.50 | .10266 | .10023 | 8.5501 | 20.428 | .01928 | .90056 | 7.0467 |
| #1 | -.00208 | .57781 | -.00028 | .18606 | .13773 | .00004 | -.00647 | 118.30 | .00088 | .00231 |
| #2 | -.00078 | .57664 | .00266 | .18579 | .13792 | .00005 | -.00484 | 118.27 | .00089 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **.00366** | **1.6168** | **7.4091** | **.10923** | **32.425** | **1.9228** | **.00413** | **392.45** | **.00361** |
| Stddev | .00001 | .00019 | .0039 | .0238 | .00058 | .088 | .0021 | .00001 | 1.78 | .00030 |
| %RSD | 1.2007 | 5.1788 | .23911 | .32172 | .52767 | .27197 | .11067 | .30853 | .45304 | 8.3274 |
| #1 | .00099 | .00379 | 1.6140 | 7.4259 | .10882 | 32.488 | 1.9243 | .00414 | 391.19 | .00340 |
| #2 | .00101 | .00352 | 1.6195 | 7.3922 | .10964 | 32.363 | 1.9212 | .00412 | 393.71 | .00382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38975** | **.00016** | **113.57** | **-.00075** | **.00487** | **10.159** | **21.740** | **-.00044** | **1.5192** | **-.00100** |
| Stddev | .00004 | .00035 | .11 | .00005 | .00053 | .018 | .039 | .00061 | .0020 | .00133 |
| %RSD | .01101 | 211.99 | .09570 | 6.6972 | 10.891 | .17941 | .17941 | 136.07 | .13332 | 133.03 |
| #1 | .38978 | .00041 | 113.65 | -.00079 | .00449 | 10.146 | 21.712 | -.00087 | 1.5178 | -.00006 |
| #2 | .38972 | -.00008 | 113.49 | -.00072 | .00524 | 10.172 | 21.768 | -.00002 | 1.5207 | -.00194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01474** | **.00113** | **.02053** | **.01130** | **.10787** | **.00325** |
| Stddev | .00048 | .00027 | .00725 | .00059 | .00086 | .00269 |
| %RSD | 3.2513 | 23.550 | 35.332 | 5.2277 | .79363 | 82.881 |
| #1 | .01440 | .00095 | .01540 | .01089 | .10847 | .00515 |
| #2 | .01508 | .00132 | .02566 | .01172 | .10726 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7946.5** | **79544.** | **8475.7** |
| Stddev | 24.2 | 220. | 30.5 |
| %RSD | .30483 | .27681 | .36008 |
| #1 | 7963.6 | 79388. | 8454.1 |
| #2 | 7929.3 | 79700. | 8497.2 |

Sample Name: 280-42468-a-6-a  Acquired: 5/23/2013 20:38:44  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00420** | kW **580.91** | k **.13360** | **.08551** | **9.2885** | k **.04804** | kF **.10246** | ^ ***** | k **.01407** | k **.48805** |
| Stddev | .00042 | 6.81 | .00142 | .00039 | .0771 | .00019 | .00205 | ----- | .00004 | .00060 |
| %RSD | 9.8929 | 1.1730 | 1.0611 | .45272 | .83019 | .40031 | 1.9964 | ----- | .25949 | .12339 |
| #1 | k .00450 | k 585.73 | k .13460 | .08578 | 9.2340 | k .04791 | k .10101 | ^ ----- | k .01405 | k .48848 |
| #2 | k .00391 | k 576.09 | k .13260 | .08523 | 9.3430 | k .04818 | k .10391 | ^ ----- | k .01410 | k .48762 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | .10000 | | | |
| Low Limit | | 3.2000 | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.69379** | k **2.5024** | kW **886.59** | W **122.66** | k **.64338** | k **239.30** | ^ ***** | k **.01035** | **110.13** | k **.61234** |
| Stddev | .00007 | .0055 | .28 | .18 | .00082 | 1.26 | ----- | .00001 | .09 | .00012 |
| %RSD | .00958 | .22005 | .03142 | .14370 | .12770 | .52456 | ----- | .10257 | .08158 | .01921 |
| #1 | k .69384 | k 2.5063 | k 886.40 | 122.78 | k .64396 | k 238.41 | ^ ----- | k .01035 | 110.20 | k .61226 |
| #2 | k .69375 | k 2.4985 | k 886.79 | 122.53 | k .64280 | k 240.19 | ^ ----- | k .01034 | 110.07 | k .61243 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | 100.00 | | | | | | |
| Low Limit | | | 40.000 | -.50000 | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **42.846** | k **.85323** | k **80.875** | k **.00917** | k **.02905** | k **13.809** | k **29.552** | k **.05570** | W **7.1112** | k **1.0289** |
| Stddev | .049 | .00088 | .013 | .00161 | .00240 | .141 | .303 | .00016 | .1234 | .0007 |
| %RSD | .11470 | .10341 | .01655 | 17.513 | 8.2490 | 1.0241 | 1.0241 | .29016 | 1.7355 | .07077 |
| #1 | 42.880 | k .85385 | k 80.884 | k .01031 | k .02735 | k 13.909 | k 29.766 | k .05581 | 7.1985 | k 1.0294 |
| #2 | 42.811 | k .85261 | k 80.866 | k .00804 | k .03074 | k 13.709 | k 29.338 | k .05558 | 7.0240 | k 1.0283 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | | | | | | | 5.0000 | |
| Low Limit | -1.0000 | | | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.93633** | kW **-.01543** | kF **-.78039** | k **1.1967** | k **7.3017** | k **.13571** |
| Stddev | .00204 | .00033 | .01062 | .0014 | .0222 | .00029 |
| %RSD | .21792 | 2.1359 | 1.3608 | .11972 | .30475 | .21608 |
| #1 | k .93777 | k -.01520 | k -.78790 | k 1.1978 | k 7.3175 | k .13591 |
| #2 | k .93489 | k -.01567 | k -.77288 | k 1.1957 | k 7.2860 | k .13550 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | 50.000 | | | |
| Low Limit | | -.01000 | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **24463.** | **241940.** | **32674.** |
| Stddev | 69. | 486. | 166. |
| %RSD | .28088 | .20075 | .50805 |
| #1 | 24415. | 241590. | 32556. |
| #2 | 24512. | 242280. | 32791. |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 20:42:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00171** | **49.938** | **.00112** | **.00183** | **.00002** | **.00004** | W **1.0628** | **.02770** | **.00045** | **.00042** | **.00007** | **-.00040** |
| Stddev | .00025 | .798 | .00324 | .00006 | .00034 | .00001 | .0002 | .00151 | .00008 | .00001 | .00008 | .00036 |
| %RSD | 14.557 | 1.5988 | 289.15 | 3.3014 | 1802.9 | 24.408 | .02280 | 5.4503 | 18.675 | 2.8942 | 106.82 | 89.863 |
| #1 | -.00189 | 49.373 | -.00117 | .00187 | .00026 | .00004 | 1.0627 | .02877 | .00051 | .00041 | .00002 | -.00015 |
| #2 | -.00153 | 50.502 | .00341 | .00179 | -.00022 | .00005 | 1.0630 | .02663 | .00039 | .00043 | .00013 | -.00065 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.491** | **.78550** | **.00350** | **.05161** | **.00106** | **-.00057** | **259.71** | **.00031** | **.00666** | **-.00253** | **5.1282** | **.00080** |
| Stddev | .767 | .10962 | .00035 | .00133 | .00009 | .00034 | 3.90 | .00009 | .00018 | .00010 | .0274 | .00259 |
| %RSD | 1.4891 | 13.955 | 10.112 | 2.5719 | 8.3523 | 60.517 | 1.5015 | 28.010 | 2.7680 | 3.8429 | .53398 | 322.98 |
| #1 | 50.949 | .86301 | .00325 | .05067 | .00100 | -.00081 | 256.95 | .00038 | .00653 | -.00246 | 5.1475 | .00264 |
| #2 | 52.033 | .70799 | .00375 | .05255 | .00112 | -.00032 | 262.46 | .00025 | .00679 | -.00260 | 5.1088 | -.00103 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00603** | **.06429** | **.13758** | **-.00043** | **.00058** | **5.0387** | **.00215** | **.00065** | W **10.760** | **.00005** | **.00132** | **-.00325** |
| Stddev | .00078 | .00125 | .00267 | .00014 | .00001 | .0154 | .00026 | .00048 | .055 | .00048 | .00020 | .00130 |
| %RSD | 12.865 | 1.9434 | 1.9434 | 33.381 | 1.8926 | .30486 | 11.990 | 73.143 | .51045 | 962.04 | 15.075 | 39.938 |
| #1 | .00658 | .06341 | .13569 | -.00033 | .00059 | 5.0496 | .00196 | .00099 | 10.799 | -.00029 | .00118 | -.00417 |
| #2 | .00549 | .06517 | .13947 | -.00053 | .00057 | 5.0279 | .00233 | .00032 | 10.721 | .00039 | .00146 | -.00233 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8150.0** | **82700.** | **8527.2** |
| Stddev | 24.5 | 193. | 108.0 |
| %RSD | .30067 | .23368 | 1.2665 |
| #1 | 8167.3 | 82564. | 8603.5 |
| #2 | 8132.6 | 82837. | 8450.8 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 20:44:38 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52850** | F **.56304** | **1.0388** | **.52520** | **.50806** | **.49085** | **.00065** | **5.0525** | **.50435** | **.51458** | **.52731** | **.51574** | **2.5257** |
| Stddev | .00158 | .04094 | .0017 | .00004 | .00191 | .00217 | .00167 | .0307 | .00047 | .00066 | .00173 | .00292 | .0173 |
| %RSD | .29893 | 7.2720 | .15964 | .00697 | .37612 | .44177 | 255.76 | .60787 | .09410 | .12827 | .32731 | .56666 | .68520 |
| #1 | .52738 | .59200 | 1.0376 | .52523 | .50942 | .49238 | -.00053 | 5.0742 | .50468 | .51505 | .52853 | .51367 | 2.5379 |
| #2 | .52962 | .53409 | 1.0400 | .52518 | .50671 | .48931 | .00183 | 5.0308 | .50401 | .51412 | .52609 | .51781 | 2.5134 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | | |
| Range | | 10.490% | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.777** | **.97897** | **20.405** | **.50517** | **.52183** | **5.0188** | **.53117** | **1.0385** | **1.0115** | **.04440** | **1.0258** | **1.0493** | **5.2866** |
| Stddev | .167 | .00587 | .004 | .00060 | .00096 | .0557 | .00095 | .0071 | .0004 | .00877 | .0025 | .0042 | .0355 |
| %RSD | .33522 | .59958 | .02001 | .11951 | .18337 | 1.1101 | .17822 | .67963 | .03464 | 19.760 | .24237 | .39854 | .67239 |
| #1 | 49.895 | .98312 | 20.402 | .50474 | .52250 | 5.0582 | .53184 | 1.0435 | 1.0118 | .05060 | 1.0276 | 1.0523 | 5.2615 |
| #2 | 49.659 | .97481 | 20.408 | .50559 | .52115 | 4.9794 | .53050 | 1.0335 | 1.0113 | .03820 | 1.0240 | 1.0464 | 5.3117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.313** | **1.0410** | **.50652** | **.00257** | **.51239** | **1.0356** | **.02365** | **.49305** | **.51457** | **.51238** |
| Stddev | .076 | .0022 | .00194 | .00166 | .00175 | .0009 | .04283 | .00007 | .00046 | .00119 |
| %RSD | .67239 | .20651 | .38330 | 64.641 | .34243 | .08446 | 181.07 | .01386 | .08937 | .23284 |
| #1 | 11.260 | 1.0425 | .50789 | .00140 | .51115 | 1.0350 | .05393 | .49310 | .51424 | .51154 |
| #2 | 11.367 | 1.0395 | .50515 | .00375 | .51364 | 1.0362 | -.00663 | .49301 | .51489 | .51323 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8381.1** | **85837.** | **8568.8** |
| Stddev | 21.6 | 287. | 79.6 |
| %RSD | .25754 | .33427 | .92852 |
| #1 | 8396.4 | 85634. | 8512.5 |
| #2 | 8365.9 | 86040. | 8625.0 |

Sample Name: CCB  Acquired: 5/23/2013 20:46:45  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00140** | **.00391** | **.00037** | **.00024** | **.00018** | **.00004** | **-.00088** | **.00940** | **-.00010** | **-.00003** | **.00023** |
| Stddev | .00017 | .00010 | .00060 | .00007 | .00016 | .00008 | .00464 | .00136 | .00024 | .00013 | .00003 |
| %RSD | 11.824 | 2.5407 | 161.42 | 27.337 | 86.212 | 190.52 | 528.72 | 14.507 | 247.20 | 373.72 | 15.357 |
| #1 | -.00128 | .00398 | -.00005 | .00020 | .00029 | -.00001 | -.00416 | .00844 | -.00026 | .00006 | .00025 |
| #2 | -.00151 | .00384 | .00079 | .00029 | .00007 | .00009 | .00240 | .01037 | .00007 | -.00012 | .00020 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.00952** | F **.38051** | **.00096** | **.00470** | **.00022** | **.00042** | **.03792** | **.00013** | **.00017** | **-.00167** |
| Stddev | .00026 | .00054 | .04545 | .00198 | .00242 | .00001 | .00013 | .01489 | .00051 | .00050 | .00110 |
| %RSD | 71.911 | 5.6353 | 11.945 | 206.79 | 51.514 | 3.1680 | 30.524 | 39.274 | 392.56 | 304.66 | 65.787 |
| #1 | .00018 | .00990 | .34837 | -.00044 | .00299 | .00022 | .00033 | .02739 | -.00023 | -.00019 | -.00245 |
| #2 | .00054 | .00914 | .41265 | .00236 | .00642 | .00021 | .00051 | .04845 | .00049 | .00052 | -.00089 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | | | | | | |
| Low Limit | | | -.25000 | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03418** | **.00076** | **.00307** | W **.04298** | **.09198** | **.00022** | **.00020** | **.00150** | **-.00052** | **.00082** | **.01564** |
| Stddev | .00365 | .00021 | .00316 | .00270 | .00577 | .00033 | .00006 | .00017 | .00030 | .00090 | .02024 |
| %RSD | 10.673 | 27.883 | 103.10 | 6.2728 | 6.2728 | 152.18 | 28.663 | 10.983 | 56.825 | 110.19 | 129.40 |
| #1 | .03676 | .00091 | .00083 | .04489 | .09606 | -.00002 | .00016 | .00162 | -.00031 | .00146 | .02995 |
| #2 | .03160 | .00061 | .00531 | .04108 | .08790 | .00045 | .00024 | .00139 | -.00073 | .00018 | .00133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03470 | | | | | | | |
| Low Limit | | | | -.06940 | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00039** | **.00249** | **-.00001** |
| Stddev | .00055 | .00039 | .00057 |
| %RSD | 143.06 | 15.564 | 4010.0 |
| #1 | -.00078 | .00221 | -.00042 |
| #2 | .00000 | .00276 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8313.9** | **85628.** | **8380.7** |
| Stddev | 6.1 | 31. | 25.4 |
| %RSD | .07284 | .03651 | .30351 |
| #1 | 8318.2 | 85606. | 8362.7 |
| #2 | 8309.7 | 85650. | 8398.7 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 20:48:58 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01007** | **.11243** | **.01442** | **.10805** | **.01034** | **.00102** | **.11888** | **.21817** | **.00527** | **.01087** | **.01084** | **.01602** | **.10751** |
| Stddev | .00006 | .00031 | .00146 | .00019 | .00031 | .00002 | .00214 | .00220 | .00005 | .00030 | .00007 | .00006 | .00251 |
| %RSD | .56385 | .27191 | 10.115 | .17561 | 2.9647 | 1.9838 | 1.8002 | 1.0101 | 1.0090 | 2.7503 | .66805 | .38102 | 2.3382 |
| #1 | .01003 | .11264 | .01339 | .10818 | .01056 | .00100 | .11736 | .21973 | .00524 | .01108 | .01089 | .01598 | .10928 |
| #2 | .01011 | .11221 | .01545 | .10791 | .01012 | .00103 | .12039 | .21662 | .00531 | .01066 | .01079 | .01607 | .10573 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2555** | **.01126** | **.21880** | **.01047** | **.02160** | **1.0611** | **.04401** | **3.0768** | **.00925** | **.02508** | **.01115** | **.01803** | **.57956** |
| Stddev | .0420 | .00240 | .00462 | .00008 | .00005 | .0036 | .00029 | .0046 | .00110 | .00058 | .00179 | .00214 | .01235 |
| %RSD | 1.2888 | 21.343 | 2.1125 | .80017 | .22321 | .34122 | .66277 | .14834 | 11.871 | 2.2998 | 16.072 | 11.881 | 2.1317 |
| #1 | 3.2258 | .01296 | .22207 | .01053 | .02157 | 1.0636 | .04422 | 3.0800 | .00847 | .02467 | .01242 | .01652 | .57083 |
| #2 | 3.2852 | .00956 | .21553 | .01041 | .02164 | 1.0585 | .04381 | 3.0735 | .01002 | .02549 | .00988 | .01955 | .58830 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2403** | **.10891** | **.01044** | **.01375** | **.00996** | **.01631** | F **.10309** | **.00964** | **.02339** | **.01739** |
| Stddev | .0264 | .00011 | .00008 | .00006 | .00007 | .00012 | .01008 | .00006 | .00001 | .00125 |
| %RSD | 2.1317 | .10518 | .73688 | .44567 | .69266 | .74526 | 9.7815 | .63657 | .02225 | 7.2095 |
| #1 | 1.2216 | .10899 | .01050 | .01371 | .00991 | .01623 | .11022 | .00968 | .02339 | .01651 |
| #2 | 1.2590 | .10883 | .01039 | .01380 | .01001 | .01640 | .09596 | .00960 | .02340 | .01828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8422.4** | **87015.** | **8427.5** |
| Stddev | 14.5 | 191. | 22.6 |
| %RSD | .17228 | .21893 | .26837 |
| #1 | 8432.6 | 87150. | 8411.5 |
| #2 | 8412.1 | 86880. | 8443.4 |

Sample Name: 280-42370-e-2-d  Acquired: 5/23/2013 20:51:14  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00145** | **.05369** | **.02599** | W **38.895** | **1.6911** | **.00010** | **-.01127** | **472.99** | **.00137** | **.01253** |
| Stddev | .00051 | .00018 | .00106 | .045 | .0019 | .00001 | .00327 | 10.53 | .00022 | .00022 |
| %RSD | 35.459 | .33714 | 4.0712 | .11620 | .10975 | 7.4148 | 29.001 | 2.2264 | 16.359 | 1.7827 |
| #1 | -.00181 | .05382 | .02524 | 38.863 | 1.6897 | .00010 | -.01358 | 465.54 | .00121 | .01238 |
| #2 | -.00109 | .05356 | .02674 | 38.927 | 1.6924 | .00009 | -.00896 | 480.44 | .00153 | .01269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | | | |
| Low Limit | | | | -.01000 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04071** | **.00451** | **12.391** | W **124.54** | **.10930** | **234.03** | **6.5268** | **.00756** | W **1434.7** | **.33900** |
| Stddev | .00011 | .00004 | .020 | .37 | .00042 | 1.71 | .0739 | .00003 | 4.0 | .00051 |
| %RSD | .25999 | .81590 | .15952 | .29463 | .38018 | .73069 | 1.1318 | .36644 | .28116 | .14903 |
| #1 | .04079 | .00453 | 12.377 | 124.28 | .10901 | 232.82 | 6.5790 | .00757 | 1431.8 | .33865 |
| #2 | .04064 | .00448 | 12.405 | 124.80 | .10960 | 235.24 | 6.4746 | .00754 | 1437.5 | .33936 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.1902** | **.00502** | **24.559** | **.00335** | **.00523** | **44.886** | **96.055** | **.00312** | **4.0637** | **-.00082** |
| Stddev | .0011 | .00031 | .017 | .00278 | .00212 | .012 | .027 | .00025 | .0038 | .00440 |
| %RSD | .04987 | 6.1122 | .07091 | 82.875 | 40.454 | .02767 | .02767 | 7.9582 | .09445 | 539.68 |
| #1 | 2.1910 | .00524 | 24.571 | .00139 | .00374 | 44.877 | 96.037 | .00330 | 4.0609 | .00230 |
| #2 | 2.1894 | .00480 | 24.547 | .00532 | .00673 | 44.894 | 96.074 | .00295 | 4.0664 | -.00393 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03720** | **.00109** | **-.03712** | **.04428** | **.17343** | **.01769** |
| Stddev | .00056 | .00082 | .05375 | .00022 | .00092 | .00118 |
| %RSD | 1.5182 | 74.549 | 144.81 | .49594 | .53095 | 6.6780 |
| #1 | .03760 | .00167 | -.07512 | .04444 | .17278 | .01685 |
| #2 | .03680 | .00052 | .00089 | .04413 | .17408 | .01852 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7159.3** | **71799.** | **8195.5** |
| Stddev | 29.7 | 129. | 65.5 |
| %RSD | .41435 | .18016 | .79871 |
| #1 | 7180.3 | 71708. | 8241.8 |
| #2 | 7138.4 | 71891. | 8149.2 |

Sample Name: 280-42370-e-2-dSD@5 Acquired: 5/23/2013 20:54:24 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00174** | **.01221** | **.00352** | **7.9212** | **.32585** | **-.00001** | **-.00420** | **94.724** | **.00068** | **.00247** |
| Stddev | .00048 | .00025 | .00117 | .0046 | .00131 | .00000 | .00179 | .535 | .00032 | .00012 |
| %RSD | 27.461 | 2.0316 | 33.318 | .05795 | .40284 | 31.242 | 42.558 | .56470 | 46.352 | 4.8511 |
| #1 | -.00140 | .01239 | .00269 | 7.9180 | .32493 | -.00002 | -.00294 | 94.345 | .00046 | .00238 |
| #2 | -.00208 | .01204 | .00435 | 7.9245 | .32678 | -.00001 | -.00546 | 95.102 | .00090 | .00255 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00813** | **.00161** | **2.4951** | **23.732** | **.02149** | **45.840** | **1.2931** | **.00151** | **276.06** | **.06850** |
| Stddev | .00013 | .00019 | .0083 | .186 | .00054 | .065 | .0002 | .00024 | 1.65 | .00039 |
| %RSD | 1.5834 | 11.959 | .33295 | .78426 | 2.4946 | .14137 | .01530 | 15.679 | .59657 | .57162 |
| #1 | .00804 | .00175 | 2.4892 | 23.601 | .02187 | 45.794 | 1.2930 | .00168 | 274.90 | .06822 |
| #2 | .00822 | .00148 | 2.5009 | 23.864 | .02111 | 45.886 | 1.2933 | .00134 | 277.23 | .06877 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42387** | **-.00053** | **4.6542** | **-.00001** | **.00369** | **8.7767** | **18.782** | **.00035** | **.78780** | **-.00112** |
| Stddev | .00054 | .00054 | .0101 | .00080 | .00159 | .0429 | .092 | .00036 | .00450 | .00001 |
| %RSD | .12811 | 102.42 | .21747 | 9921.0 | 43.139 | .48903 | .48903 | 104.36 | .57134 | .46636 |
| #1 | .42348 | -.00015 | 4.6614 | .00056 | .00256 | 8.7463 | 18.717 | .00009 | .78461 | -.00111 |
| #2 | .42425 | -.00091 | 4.6471 | -.00058 | .00481 | 8.8070 | 18.847 | .00060 | .79098 | -.00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00673** | **.00028** | **.02756** | **.00887** | **.03696** | **.00578** |
| Stddev | .00006 | .00107 | .01616 | .00029 | .00018 | .00044 |
| %RSD | .87646 | 380.45 | 58.610 | 3.2389 | .48734 | 7.6042 |
| #1 | .00677 | -.00048 | .01614 | .00867 | .03683 | .00609 |
| #2 | .00669 | .00104 | .03899 | .00907 | .03709 | .00547 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8062.1** | **80739.** | **8469.1** |
| Stddev | 23.0 | 274. | 13.7 |
| %RSD | .28490 | .33979 | .16220 |
| #1 | 8078.3 | 80933. | 8478.8 |
| #2 | 8045.9 | 80545. | 8459.4 |

Sample Name: 280-42370-e-2-e ms  Acquired: 5/23/2013 20:56:45  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05506** | **1.8487** | **1.0847** | W **40.200** | **3.6609** | **.04651** | F **2.1201** | W **515.38** | **.10341** | **.47472** |
| Stddev | .00089 | .0089 | .0091 | .166 | .0026 | .00007 | .0114 | .73 | .00047 | .00236 |
| %RSD | 1.6073 | .48068 | .83884 | .41347 | .07195 | .14731 | .53552 | .14191 | .45483 | .49647 |
| #1 | .05569 | 1.8424 | 1.0783 | 40.082 | 3.6628 | .04656 | 2.1121 | 515.90 | .10308 | .47306 |
| #2 | .05444 | 1.8550 | 1.0912 | 40.317 | 3.6590 | .04646 | 2.1281 | 514.87 | .10374 | .47639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | .10000 | 500.00 | | |
| Low Limit | | | | -.01000 | | | -.10000 | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23925** | **.25273** | **13.408** | W **175.68** | **1.0552** | **283.54** | **6.9999** | **1.0043** | W **1499.4** | **.81191** |
| Stddev | .00107 | .00156 | .027 | .22 | .0029 | .79 | .0556 | .0043 | .7 | .00298 |
| %RSD | .44776 | .61728 | .20175 | .12655 | .27860 | .27926 | .79394 | .42519 | .04481 | .36656 |
| #1 | .23849 | .25384 | 13.427 | 175.52 | 1.0573 | 284.10 | 7.0392 | 1.0013 | 1499.8 | .80980 |
| #2 | .24001 | .25163 | 13.389 | 175.84 | 1.0531 | 282.98 | 6.9606 | 1.0074 | 1498.9 | .81401 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.827** | **.44692** | **24.940** | **.52992** | **2.0553** | **49.679** | **106.31** | **1.8683** | W **5.0751** | **.99177** |
| Stddev | .051 | .00104 | .115 | .00255 | .0121 | .254 | .54 | .0057 | .1070 | .00564 |
| %RSD | .39945 | .23374 | .45986 | .48057 | .58756 | .51043 | .51043 | .30731 | 2.1073 | .56858 |
| #1 | 12.791 | .44618 | 24.859 | .52812 | 2.0468 | 49.859 | 106.70 | 1.8643 | 4.9994 | .99576 |
| #2 | 12.863 | .44766 | 25.021 | .53172 | 2.0639 | 49.500 | 105.93 | 1.8724 | 5.1507 | .98778 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | | | | | | | 5.0000 | |
| Low Limit | -1.0000 | | | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0386** | **1.6506** | **2.0464** | **.53049** | **.77124** | **.50149** |
| Stddev | .0031 | .0044 | .0492 | .00395 | .00561 | .00426 |
| %RSD | .29956 | .26736 | 2.4026 | .74408 | .72795 | .84934 |
| #1 | 1.0408 | 1.6475 | 2.0812 | .53328 | .77521 | .50450 |
| #2 | 1.0364 | 1.6537 | 2.0116 | .52770 | .76727 | .49848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7140.9** | **71671.** | **8174.2** |
| Stddev | .5 | 617. | 3.1 |
| %RSD | .00740 | .86062 | .03839 |
| #1 | 7140.5 | 71235. | 8176.4 |
| #2 | 7141.3 | 72107. | 8172.0 |

Sample Name: 280-42370-e-2-f msd  Acquired: 5/23/2013 20:59:51  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05587** | **1.8828** | **1.1018** | W **42.383** | **3.8017** | **.04745** | F **2.1633** | W **551.87** | **.10529** | **.48153** |
| Stddev | .00077 | .0091 | .0005 | .062 | .0053 | .00017 | .0035 | 6.90 | .00001 | .00082 |
| %RSD | 1.3767 | .48324 | .04249 | .14619 | .13801 | .35586 | .16072 | 1.2505 | .01188 | .17018 |
| #1 | .05641 | 1.8892 | 1.1022 | 42.427 | 3.7980 | .04757 | 2.1658 | 556.75 | .10528 | .48211 |
| #2 | .05532 | 1.8763 | 1.1015 | 42.340 | 3.8054 | .04733 | 2.1608 | 546.99 | .10530 | .48095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | .10000 | 500.00 | | |
| Low Limit | | | | -.01000 | | | -.10000 | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24360** | **.25769** | **14.131** | W **184.66** | **1.0791** | **295.59** | **7.4130** | **1.0248** | W **1582.8** | **.83410** |
| Stddev | .00037 | .00027 | .039 | .34 | .0007 | .67 | .0015 | .0027 | 2.0 | .00118 |
| %RSD | .15326 | .10541 | .27419 | .18142 | .06285 | .22743 | .02049 | .26067 | .12920 | .14187 |
| #1 | .24386 | .25749 | 14.159 | 184.43 | 1.0786 | 295.12 | 7.4141 | 1.0266 | 1581.4 | .83493 |
| #2 | .24333 | .25788 | 14.104 | 184.90 | 1.0796 | 296.07 | 7.4120 | 1.0229 | 1584.2 | .83326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **13.143** | **.45349** | **26.285** | **.54332** | **2.0868** | W **53.606** | **114.72** | **1.8994** | W **5.3278** | **1.0131** |
| Stddev | .028 | .00127 | .050 | .00200 | .0044 | .292 | .63 | .0085 | .0242 | .0032 |
| %RSD | .20960 | .27989 | .19085 | .36759 | .21057 | .54495 | .54495 | .44840 | .45339 | .31466 |
| #1 | 13.162 | .45439 | 26.320 | .54473 | 2.0899 | 53.812 | 115.16 | 1.9054 | 5.3107 | 1.0154 |
| #2 | 13.123 | .45259 | 26.249 | .54191 | 2.0837 | 53.399 | 114.27 | 1.8934 | 5.3449 | 1.0109 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | | | | 50.000 | | | 5.0000 | |
| Low Limit | -1.0000 | | | | | -.10000 | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0675** | **1.6679** | **2.0823** | **.54205** | **.50093** | **.52107** |
| Stddev | .0036 | .0058 | .0618 | .00166 | .00045 | .00033 |
| %RSD | .33572 | .34822 | 2.9659 | .30682 | .08996 | .06397 |
| #1 | 1.0700 | 1.6721 | 2.0387 | .54087 | .50125 | .52084 |
| #2 | 1.0650 | 1.6638 | 2.1260 | .54322 | .50061 | .52131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7132.0** | **71524.** | **8175.6** |
| Stddev | 33.9 | 48. | .3 |
| %RSD | .47509 | .06688 | .00422 |
| #1 | 7108.0 | 71490. | 8175.8 |
| #2 | 7156.0 | 71557. | 8175.3 |

Sample Name: 280-42370-e-3-e  Acquired: 5/23/2013 21:02:59  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00146** | **.04947** | **.05831** | W **56.169** | **.68793** | **-.00001** | **-.00162** | **61.861** | **.00089** | **.01899** |
| Stddev | .00050 | .00044 | .00006 | .028 | .00313 | .00002 | .00279 | .217 | .00013 | .00037 |
| %RSD | 33.841 | .88913 | .09527 | .04971 | .45458 | 173.21 | 172.23 | .35040 | 14.737 | 1.9657 |
| #1 | -.00181 | .04979 | .05835 | 56.149 | .68572 | .00000 | .00035 | 61.708 | .00098 | .01873 |
| #2 | -.00111 | .04916 | .05828 | 56.189 | .69014 | -.00003 | -.00359 | 62.014 | .00079 | .01926 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | | | |
| Low Limit | | | | -.01000 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27780** | **.00448** | **2.3383** | F **778.87** | **1.1787** | W **890.47** | **.30518** | **.02605** | W **3706.7** | **.15989** |
| Stddev | .00023 | .00046 | .0253 | 1.97 | .0065 | 6.47 | .00068 | .00043 | 16.4 | .00060 |
| %RSD | .08268 | 10.309 | 1.0828 | .25314 | .55490 | .72657 | .22178 | 1.6352 | .44234 | .37699 |
| #1 | .27797 | .00415 | 2.3204 | 777.48 | 1.1740 | 895.04 | .30565 | .02575 | 3695.1 | .16032 |
| #2 | .27764 | .00480 | 2.3562 | 780.27 | 1.1833 | 885.89 | .30470 | .02635 | 3718.3 | .15947 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 500.00 | | 500.00 | | | 500.00 | |
| Low Limit | | | | -2.0000 | | -.10000 | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.4293** | **-.00008** | **82.512** | **.00950** | **.00632** | **21.842** | **46.742** | **.02645** | **1.7916** | **-.00108** |
| Stddev | .0028 | .00031 | .207 | .00127 | .00398 | .175 | .375 | .00015 | .0084 | .00163 |
| %RSD | .11573 | 388.10 | .25107 | 13.360 | 62.919 | .80136 | .80136 | .56555 | .46978 | 150.67 |
| #1 | 2.4273 | .00014 | 82.366 | .00860 | .00351 | 21.718 | 46.478 | .02634 | 1.7857 | -.00224 |
| #2 | 2.4313 | -.00029 | 82.659 | .01039 | .00914 | 21.966 | 47.007 | .02655 | 1.7976 | .00007 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26089** | **-.00287** | **.00907** | **.08202** | **.02577** | **.06870** |
| Stddev | .00059 | .00035 | .02904 | .00058 | .00005 | .00113 |
| %RSD | .22429 | 12.204 | 320.28 | .71102 | .18300 | 1.6416 |
| #1 | .26131 | -.00263 | -.01147 | .08243 | .02580 | .06949 |
| #2 | .26048 | -.00312 | .02961 | .08161 | .02574 | .06790 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6716.2** | **66151.** | **8107.6** |
| Stddev | 22.9 | 299. | 8.6 |
| %RSD | .34110 | .45226 | .10646 |
| #1 | 6700.0 | 65940. | 8101.5 |
| #2 | 6732.4 | 66363. | 8113.7 |

Sample Name: 280-42370-e-4-b  Acquired: 5/23/2013 21:06:00  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175337 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00138** | **.01263** | **.00952** | **5.3404** | **.43726** | **.00006** | **-.01310** | **296.27** | **.00164** | **.00322** |
| Stddev | .00032 | .00025 | .00099 | .0054 | .00734 | .00001 | .00269 | 9.34 | .00004 | .00004 |
| %RSD | 23.125 | 1.9414 | 10.386 | .10141 | 1.6790 | 20.650 | 20.560 | 3.1540 | 2.5370 | 1.1191 |
| #1 | -.00160 | .01245 | .01022 | 5.3442 | .44245 | .00006 | -.01120 | 302.88 | .00167 | .00324 |
| #2 | -.00115 | .01280 | .00882 | 5.3365 | .43206 | .00007 | -.01501 | 289.66 | .00161 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00339** | **.00075** | **10.140** | **29.842** | **.02331** | **156.37** | **5.9722** | **.00063** | **243.23** | **.11778** |
| Stddev | .00014 | .00013 | .132 | .469 | .00141 | 1.25 | .0025 | .00027 | 2.92 | .00040 |
| %RSD | 4.1603 | 17.223 | 1.3061 | 1.5710 | 6.0554 | .79979 | .04210 | 43.371 | 1.2010 | .33772 |
| #1 | .00349 | .00066 | 10.233 | 30.173 | .02232 | 157.25 | 5.9704 | .00044 | 245.30 | .11750 |
| #2 | .00329 | .00084 | 10.046 | 29.510 | .02431 | 155.48 | 5.9740 | .00082 | 241.17 | .11806 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85470** | **.00176** | **7.2604** | **.00061** | **.00363** | **47.178** | **100.96** | **.00084** | **1.7084** | **-.00171** |
| Stddev | .00220 | .00106 | .0042 | .00124 | .00084 | .740 | 1.58 | .00032 | .0276 | .00023 |
| %RSD | .25785 | 60.518 | .05739 | 202.92 | 23.230 | 1.5681 | 1.5681 | 38.166 | 1.6163 | 13.493 |
| #1 | .85314 | .00101 | 7.2634 | -.00027 | .00423 | 47.702 | 102.08 | .00107 | 1.7279 | -.00155 |
| #2 | .85625 | .00251 | 7.2575 | .00148 | .00304 | 46.655 | 99.842 | .00061 | 1.6889 | -.00187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00673** | **.00242** | **-.01092** | **.02653** | **.23671** | **.00574** |
| Stddev | .00011 | .00054 | .00791 | .00049 | .00088 | .00113 |
| %RSD | 1.5742 | 22.231 | 72.416 | 1.8347 | .37109 | 19.651 |
| #1 | .00666 | .00204 | -.00533 | .02688 | .23609 | .00654 |
| #2 | .00681 | .00280 | -.01651 | .02619 | .23733 | .00494 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8029.5** | **82199.** | **8997.2** |
| Stddev | 27.0 | 12. | 123.0 |
| %RSD | .33605 | .01416 | 1.3667 |
| #1 | 8048.6 | 82207. | 8910.2 |
| #2 | 8010.4 | 82191. | 9084.1 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 21:08:33 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00106** | **49.446** | **-.00238** | **.09251** | **-.00011** | **.00005** | **1.0402** | **.00442** | **.00045** | **.00039** | **.00004** | **-.00018** |
| Stddev | .00084 | .456 | .00049 | .00391 | .00005 | .00007 | .0069 | .00390 | .00007 | .00019 | .00024 | .00003 |
| %RSD | 79.115 | .92215 | 20.633 | 4.2250 | 44.155 | 125.99 | .66320 | 88.194 | 15.588 | 48.629 | 640.17 | 16.093 |
| #1 | -.00165 | 49.768 | -.00203 | .09528 | -.00008 | .00001 | 1.0451 | .00718 | .00040 | .00025 | .00021 | -.00016 |
| #2 | -.00047 | 49.123 | -.00273 | .08975 | -.00015 | .00010 | 1.0353 | .00166 | .00050 | .00052 | -.00013 | -.00020 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.983** | **.72937** | **.00153** | **.04801** | **.00016** | **-.00053** | **257.57** | **.00022** | **.01038** | **-.00218** | **4.9823** | **-.00353** |
| Stddev | .253 | .09286 | .00011 | .00633 | .00002 | .00013 | 1.63 | .00005 | .00066 | .00163 | .0090 | .00387 |
| %RSD | .49665 | 12.732 | 7.0541 | 13.187 | 12.182 | 25.096 | .63201 | 21.665 | 6.3165 | 74.919 | .18033 | 109.84 |
| #1 | 51.162 | .79503 | .00161 | .05249 | .00014 | -.00063 | 258.72 | .00026 | .01084 | -.00333 | 4.9887 | -.00079 |
| #2 | 50.804 | .66370 | .00146 | .04353 | .00017 | -.00044 | 256.42 | .00019 | .00992 | -.00102 | 4.9760 | -.00627 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **.06886** | **.14736** | **.00033** | **.00041** | **4.9380** | **.00191** | **.00116** | W **10.619** | **-.00064** | **.00083** | **.00010** |
| Stddev | .00047 | .02006 | .04292 | .00066 | .00008 | .0057 | .00030 | .00013 | .011 | .00033 | .00000 | .00129 |
| %RSD | 63.249 | 29.128 | 29.128 | 201.03 | 19.970 | .11487 | 15.972 | 10.810 | .10026 | 51.187 | .00271 | 1293.9 |
| #1 | .00042 | .08304 | .17771 | -.00014 | .00035 | 4.9339 | .00212 | .00125 | 10.626 | -.00041 | .00083 | .00101 |
| #2 | .00109 | .05468 | .11701 | .00080 | .00046 | 4.9420 | .00169 | .00107 | 10.611 | -.00088 | .00083 | -.00081 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8380.2** | **84247.** | **8673.7** |
| Stddev | 7.7 | 161. | 59.5 |
| %RSD | .09220 | .19076 | .68618 |
| #1 | 8374.8 | 84133. | 8631.6 |
| #2 | 8385.7 | 84361. | 8715.8 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 21:10:51 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52055** | **.52415** | **1.0294** | F **.59071** | **.50394** | **.48865** | **-.00074** | **4.9871** | **.50138** | **.51134** | **.52325** | **.50904** | **2.4808** |
| Stddev | .00165 | .00077 | .0049 | .00037 | .00379 | .00381 | .00044 | .0558 | .00006 | .00014 | .00167 | .00140 | .0199 |
| %RSD | .31605 | .14703 | .47899 | .06211 | .75195 | .77868 | 59.505 | 1.1195 | .01164 | .02787 | .31940 | .27510 | .80094 |
| #1 | .52171 | .52361 | 1.0329 | .59097 | .50126 | .48596 | -.00043 | 4.9476 | .50134 | .51124 | .52206 | .51003 | 2.4668 |
| #2 | .51938 | .52470 | 1.0259 | .59045 | .50662 | .49134 | -.00105 | 5.0266 | .50142 | .51144 | .52443 | .50805 | 2.4949 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .50000 | | | | | | | | | |
| Range | | | | 10.490% | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.685** | **.96995** | **20.035** | **.49749** | **.51779** | **5.1065** | **.52734** | **1.0308** | **1.0066** | **.01197** | **1.0218** | **1.0466** | **5.2791** |
| Stddev | .562 | .01340 | .065 | .00089 | .00097 | .0546 | .00074 | .0031 | .0008 | .00054 | .0026 | .0012 | .0494 |
| %RSD | 1.1305 | 1.3813 | .32579 | .17901 | .18697 | 1.0702 | .13962 | .30033 | .08107 | 4.4855 | .25611 | .11141 | .93618 |
| #1 | 49.288 | .96048 | 20.081 | .49812 | .51711 | 5.0678 | .52682 | 1.0286 | 1.0060 | .01235 | 1.0199 | 1.0474 | 5.2441 |
| #2 | 50.082 | .97943 | 19.989 | .49686 | .51848 | 5.1451 | .52786 | 1.0330 | 1.0071 | .01159 | 1.0236 | 1.0458 | 5.3140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.297** | **1.0311** | **.50329** | **.00309** | **.50478** | **1.0301** | **-.00685** | **.48612** | **.50599** | **.50801** |
| Stddev | .106 | .0026 | .00555 | .00041 | .00041 | .0003 | .03847 | .00193 | .00200 | .00503 |
| %RSD | .93618 | .25524 | 1.1019 | 13.381 | .08030 | .03012 | 561.45 | .39715 | .39608 | .99044 |
| #1 | 11.222 | 1.0293 | .49936 | .00279 | .50507 | 1.0299 | -.03405 | .48749 | .50741 | .50445 |
| #2 | 11.372 | 1.0330 | .50721 | .00338 | .50450 | 1.0303 | .02035 | .48476 | .50457 | .51157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8492.1** | **87047.** | **8773.2** |
| Stddev | 5.2 | 258. | 132.6 |
| %RSD | .06086 | .29656 | 1.5116 |
| #1 | 8495.8 | 86865. | 8866.9 |
| #2 | 8488.5 | 87230. | 8679.4 |

Sample Name: CCB  Acquired: 5/23/2013 21:12:59  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.00031** | **-.00026** | F **.05906** | **-.00022** | **.00009** | **-.00095** | **.01003** | **.00014** | **-.00008** | **.00008** | **-.00028** |
| Stddev | .00057 | .00033 | .00294 | .00109 | .00030 | .00004 | .00222 | .00025 | .00019 | .00003 | .00001 | .00022 |
| %RSD | 77.416 | 107.91 | 1123.7 | 1.8384 | 136.51 | 37.978 | 233.88 | 2.5009 | 137.09 | 39.138 | 10.990 | 80.137 |
| #1 | -.00114 | .00007 | .00182 | .05983 | -.00001 | .00007 | -.00251 | .00986 | .00027 | -.00010 | .00008 | -.00043 |
| #2 | -.00033 | .00054 | -.00234 | .05829 | -.00044 | .00012 | .00062 | .01021 | .00000 | -.00006 | .00009 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01050** | F **.40276** | W **.00340** | **.00838** | **.00013** | **.00049** | W **.16007** | **.00015** | **.00310** | **-.00213** | **.01065** | **.00213** |
| Stddev | .00060 | .05907 | .00098 | .00008 | .00002 | .00025 | .01571 | .00032 | .00038 | .00020 | .00267 | .00064 |
| %RSD | 5.7475 | 14.666 | 28.980 | .94874 | 16.842 | 50.593 | 9.8134 | 222.92 | 12.356 | 9.3970 | 25.093 | 29.792 |
| #1 | .01092 | .36099 | .00270 | .00832 | .00015 | .00067 | .17118 | -.00008 | .00337 | -.00227 | .01254 | .00168 |
| #2 | .01007 | .44452 | .00409 | .00843 | .00012 | .00032 | .14896 | .00038 | .00283 | -.00199 | .00876 | .00258 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .25000 | .00261 | | | | .09160 | | | | | |
| Low Limit | | -.25000 | -.00261 | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00475** | W **.04529** | **.09692** | **-.00036** | **.00004** | **.00019** | **-.00026** | **-.00019** | **.04484** | **.00027** | **.00243** | **.00185** |
| Stddev | .00045 | .01368 | .02927 | .00099 | .00009 | .00072 | .00019 | .00001 | .07650 | .00031 | .00007 | .00045 |
| %RSD | 9.4515 | 30.195 | 30.195 | 272.15 | 211.05 | 376.98 | 73.539 | 6.8139 | 170.60 | 115.91 | 2.8092 | 24.278 |
| #1 | .00507 | .03562 | .07623 | -.00107 | .00011 | -.00032 | -.00039 | -.00018 | .09894 | .00005 | .00238 | .00217 |
| #2 | .00443 | .05496 | .11762 | .00034 | -.00002 | .00070 | -.00012 | -.00020 | -.00925 | .00049 | .00247 | .00153 |
| Check ? | Chk Pass | Chk Warn | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .03470 | | | | | | | | | | |
| Low Limit | | -.06940 | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8537.3** | **88543.** | **8621.6** |
| Stddev | 9.6 | 331. | 28.3 |
| %RSD | .11237 | .37374 | .32868 |
| #1 | 8544.1 | 88777. | 8601.6 |
| #2 | 8530.6 | 88309. | 8641.7 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 21:15:14 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01019** | **.10812** | **.01225** | F **.15582** | **.01006** | **.00101** | **.11837** | **.20446** | **.00520** | **.01091** | **.01065** | **.01574** | **.09931** |
| Stddev | .00004 | .00005 | .00051 | .00104 | .00028 | .00005 | .00217 | .00104 | .00012 | .00011 | .00009 | .00057 | .00191 |
| %RSD | .43997 | .04547 | 4.1902 | .66768 | 2.7368 | 5.1278 | 1.8325 | .50740 | 2.2386 | 1.0448 | .83291 | 3.6230 | 1.9223 |
| #1 | .01022 | .10808 | .01188 | .15655 | .00987 | .00097 | .11684 | .20373 | .00512 | .01083 | .01059 | .01534 | .09796 |
| #2 | .01016 | .10815 | .01261 | .15508 | .01026 | .00104 | .11991 | .20519 | .00528 | .01099 | .01071 | .01614 | .10066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .10000 | | | | | | | | | |
| Range | | | | 30.000% | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3801** | **.01286** | **.21171** | **.01035** | **.02120** | **1.1344** | **.04304** | **3.0524** | **.00858** | **.00764** | **.01187** | **.01450** | **.58123** |
| Stddev | .0397 | .00014 | .00011 | .00002 | .00017 | .0020 | .00012 | .0003 | .00056 | .00064 | .00041 | .00079 | .01800 |
| %RSD | 1.1735 | 1.1025 | .05109 | .22775 | .78399 | .17344 | .27833 | .00910 | 6.5412 | 8.3633 | 3.4783 | 5.4325 | 3.0961 |
| #1 | 3.3520 | .01276 | .21164 | .01037 | .02132 | 1.1330 | .04313 | 3.0526 | .00898 | .00809 | .01158 | .01505 | .56851 |
| #2 | 3.4081 | .01296 | .21179 | .01034 | .02108 | 1.1358 | .04296 | 3.0522 | .00818 | .00719 | .01216 | .01394 | .59396 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2438** | **.10643** | **.01013** | **.01662** | **.01004** | **.01609** | **.07434** | **.00936** | **.02218** | **.01559** |
| Stddev | .0385 | .00103 | .00012 | .00036 | .00020 | .00026 | .02677 | .00007 | .00026 | .00035 |
| %RSD | 3.0961 | .96605 | 1.1758 | 2.1443 | 1.9622 | 1.6109 | 36.017 | .73548 | 1.1552 | 2.2747 |
| #1 | 1.2166 | .10571 | .01005 | .01636 | .00990 | .01590 | .05540 | .00931 | .02200 | .01533 |
| #2 | 1.2711 | .10716 | .01021 | .01687 | .01018 | .01627 | .09327 | .00941 | .02236 | .01584 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8515.5** | **88433.** | **8563.5** |
| Stddev | 2.0 | 175. | 16.8 |
| %RSD | .02304 | .19809 | .19618 |
| #1 | 8514.1 | 88557. | 8551.6 |
| #2 | 8516.9 | 88309. | 8575.4 |

Sample Name: mb 280-175289/1-a  Acquired: 5/23/2013 21:17:31  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00089** | **.00212** | **-.00180** | **.04214** | **.00004** | **.00003** | **-.00200** | **.00571** | **.00007** | **.00002** |
| Stddev | .00046 | .00010 | .00149 | .00058 | .00016 | .00000 | .00250 | .00146 | .00016 | .00000 |
| %RSD | 51.961 | 4.8500 | 82.776 | 1.3699 | 379.94 | 7.2067 | 125.04 | 25.642 | 215.87 | 1.7995 |
| #1 | -.00056 | .00219 | -.00075 | .04255 | .00016 | .00003 | -.00376 | .00467 | .00019 | .00002 |
| #2 | -.00122 | .00204 | -.00285 | .04173 | -.00007 | .00003 | -.00023 | .00675 | -.00004 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00005** | **.00580** | **.23777** | **-.00241** | **.00265** | **.00011** | **.00014** | **.11582** | **.00066** |
| Stddev | .00011 | .00012 | .00039 | .05886 | .00042 | .00140 | .00005 | .00006 | .00462 | .00009 |
| %RSD | 303.22 | 248.88 | 6.6802 | 24.753 | 17.220 | 52.954 | 45.512 | 41.546 | 3.9883 | 13.288 |
| #1 | -.00004 | .00013 | .00552 | .27939 | -.00270 | .00166 | .00008 | .00010 | .11256 | .00060 |
| #2 | .00012 | -.00004 | .00607 | .19615 | -.00212 | .00364 | .00015 | .00018 | .11909 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20168** | **-.00150** | **.01031** | **.00097** | **.00291** | **.05254** | **.11243** | **-.00010** | **-.00008** | **.00165** |
| Stddev | .00152 | .00164 | .00065 | .00077 | .00000 | .01214 | .02599 | .00009 | .00006 | .00006 |
| %RSD | .75218 | 109.28 | 6.2889 | 79.068 | .13318 | 23.116 | 23.116 | 90.033 | 80.286 | 3.8155 |
| #1 | .20276 | -.00034 | .01077 | .00043 | .00291 | .06112 | .13080 | -.00004 | -.00003 | .00161 |
| #2 | .20061 | -.00265 | .00985 | .00152 | .00290 | .04395 | .09405 | -.00017 | -.00012 | .00169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **.00002** | **-.00225** | **.00006** | **.00217** | **.00073** |
| Stddev | .00009 | .00064 | .02231 | .00005 | .00015 | .00058 |
| %RSD | 23.251 | 3807.0 | 991.02 | 82.281 | 6.6958 | 79.441 |
| #1 | -.00046 | .00047 | .01352 | .00003 | .00207 | .00032 |
| #2 | -.00033 | -.00044 | -.01803 | .00010 | .00227 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8550.2** | **88866.** | **8604.8** |
| Stddev | 14.4 | 580. | 18.2 |
| %RSD | .16825 | .65224 | .21192 |
| #1 | 8560.4 | 89276. | 8591.9 |
| #2 | 8540.0 | 88456. | 8617.7 |

Sample Name: lcs 280-175289/2-a Acquired: 5/23/2013 21:19:46 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05249** | **2.0131** | **1.0488** | **1.0975** | **2.0669** | **.05020** | **2.2584** | **50.861** | **.10283** | **.50662** |
| Stddev | .00033 | .0011 | .0004 | .0021 | .0014 | .00002 | .0009 | .039 | .00033 | .00046 |
| %RSD | .62159 | .05525 | .04179 | .19298 | .06778 | .03803 | .03989 | .07695 | .31762 | .08986 |
| #1 | .05272 | 2.0123 | 1.0491 | 1.0960 | 2.0659 | .05022 | 2.2590 | 50.833 | .10306 | .50695 |
| #2 | .05226 | 2.0138 | 1.0485 | 1.0990 | 2.0679 | .05019 | 2.2577 | 50.889 | .10260 | .50630 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21148** | **.25962** | **1.0347** | **50.999** | **.98195** | **50.539** | **.50433** | **1.0705** | **54.248** | **.52176** |
| Stddev | .00012 | .00086 | .0007 | .064 | .00072 | .120 | .00064 | .0016 | .516 | .00053 |
| %RSD | .05487 | .33091 | .06660 | .12457 | .07302 | .23783 | .12727 | .15327 | .95041 | .10090 |
| #1 | .21140 | .25902 | 1.0352 | 50.954 | .98245 | 50.454 | .50388 | 1.0693 | 53.884 | .52139 |
| #2 | .21157 | .26023 | 1.0342 | 51.044 | .98144 | 50.624 | .50478 | 1.0717 | 54.613 | .52214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.781** | **.50206** | **.28962** | W **.54748** | **2.1157** | F **11.020** | **23.582** | **2.0922** | **1.0313** | **1.0312** |
| Stddev | .000 | .00015 | .00077 | .00572 | .0059 | .019 | .041 | .0066 | .0013 | .0017 |
| %RSD | .00103 | .03034 | .26474 | 1.0446 | .27960 | .17221 | .17221 | .31645 | .12839 | .16646 |
| #1 | 10.781 | .50216 | .28908 | .54344 | 2.1115 | 11.033 | 23.611 | 2.0875 | 1.0304 | 1.0300 |
| #2 | 10.781 | .50195 | .29016 | .55152 | 2.1199 | 11.006 | 23.554 | 2.0969 | 1.0323 | 1.0324 |
| Check ? | Chk Pass | Chk Pass | None | Chk Warn | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .54000 | | 11.000 | | | | |
| Low Limit | | | | .44000 | | 9.0000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0584** | **2.0029** | **2.2964** | **.50399** | **.51752** | **.52875** |
| Stddev | .0001 | .0044 | .0101 | .00096 | .00237 | .00252 |
| %RSD | .00782 | .21903 | .43762 | .19141 | .45832 | .47666 |
| #1 | 1.0585 | 1.9998 | 2.3035 | .50331 | .51584 | .52696 |
| #2 | 1.0584 | 2.0060 | 2.2893 | .50467 | .51920 | .53053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8217.2** | **83688.** | **8565.3** |
| Stddev | 38.3 | 265. | 41.8 |
| %RSD | .46556 | .31661 | .48745 |
| #1 | 8244.3 | 83875. | 8535.8 |
| #2 | 8190.2 | 83500. | 8594.8 |

Sample Name: lcsd 280-175289/3-a  Acquired: 5/23/2013 21:21:52  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05237** | **1.9697** | **1.0348** | **1.0782** | **2.0363** | **.04930** | **2.2270** | **49.897** | **.10195** | **.50065** |
| Stddev | .00004 | .0043 | .0010 | .0034 | .0009 | .00025 | .0009 | .066 | .00023 | .00012 |
| %RSD | .06940 | .21819 | .09907 | .31922 | .04212 | .51056 | .04024 | .13206 | .22794 | .02446 |
| #1 | .05240 | 1.9667 | 1.0341 | 1.0758 | 2.0357 | .04948 | 2.2264 | 49.850 | .10212 | .50057 |
| #2 | .05235 | 1.9727 | 1.0356 | 1.0806 | 2.0369 | .04912 | 2.2277 | 49.943 | .10179 | .50074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20852** | **.25415** | **1.0319** | **49.995** | **.96738** | **50.083** | **.49803** | **1.0551** | **53.036** | **.51258** |
| Stddev | .00022 | .00119 | .0019 | .048 | .00149 | .202 | .00169 | .0015 | .332 | .00171 |
| %RSD | .10752 | .46943 | .17893 | .09668 | .15366 | .40235 | .33898 | .14490 | .62608 | .33301 |
| #1 | .20837 | .25331 | 1.0306 | 49.961 | .96633 | 49.941 | .49684 | 1.0540 | 52.802 | .51138 |
| #2 | .20868 | .25500 | 1.0332 | 50.029 | .96843 | 50.226 | .49922 | 1.0561 | 53.271 | .51379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.634** | **.49574** | **.00545** | **.53915** | **2.0918** | **10.827** | **23.169** | **2.0649** | **1.0140** | **1.0199** |
| Stddev | .013 | .00187 | .00056 | .00072 | .0019 | .046 | .098 | .0005 | .0001 | .0067 |
| %RSD | .11799 | .37677 | 10.237 | .13280 | .09143 | .42152 | .42152 | .02303 | .01188 | .65576 |
| #1 | 10.625 | .49706 | .00585 | .53864 | 2.0932 | 10.795 | 23.100 | 2.0653 | 1.0139 | 1.0152 |
| #2 | 10.643 | .49442 | .00506 | .53965 | 2.0905 | 10.859 | 23.239 | 2.0646 | 1.0141 | 1.0246 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0451** | **1.9829** | **2.2811** | **.49933** | **.50732** | **.51766** |
| Stddev | .0014 | .0067 | .0636 | .00385 | .00032 | .00376 |
| %RSD | .13397 | .33911 | 2.7885 | .77109 | .06313 | .72609 |
| #1 | 1.0441 | 1.9877 | 2.2361 | .49661 | .50709 | .51500 |
| #2 | 1.0461 | 1.9781 | 2.3261 | .50206 | .50754 | .52031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8203.6** | **83224.** | **8602.8** |
| Stddev | 11.5 | 157. | 60.0 |
| %RSD | .14007 | .18916 | .69692 |
| #1 | 8211.8 | 83335. | 8645.2 |
| #2 | 8195.5 | 83112. | 8560.4 |

Sample Name: 280-42456-a-1-a  Acquired: 5/23/2013 21:23:58  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .05014 | k 102.15 | k .15760 | .42138 | 1.8953 | k .01345 | kF .21750 | 149.96 | k .03376 | k .14493 |
| Stddev | .00071 | .54 | .00028 | .00058 | .0049 | .00012 | .00247 | .15 | .00009 | .00042 |
| %RSD | 1.4196 | .52439 | .17487 | .13793 | .25845 | .90421 | 1.1351 | .10131 | .25730 | .28896 |
| #1 | k .04964 | k 101.77 | k .15740 | .42179 | 1.8918 | k .01336 | k .21924 | 150.06 | k .03382 | k .14464 |
| #2 | k .05064 | k 102.53 | k .15779 | .42097 | 1.8987 | k .01354 | k .21575 | 149.85 | k .03369 | k .14523 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .15273 | k .30893 | k 99.557 | W 160.43 | k .26191 | k 57.850 | ^ ***** | k .31897 | W 638.23 | k .18238 |
| Stddev | .00016 | .00053 | .556 | .69 | .00123 | .064 | ----- | .00010 | 2.60 | .00046 |
| %RSD | .10328 | .17135 | .55822 | .43170 | .47099 | .11030 | ----- | .03035 | .40726 | .25427 |
| #1 | k .15284 | k .30856 | k 99.164 | 159.94 | k .26103 | k 57.805 | ^ ----- | k .31891 | 636.40 | k .18205 |
| #2 | k .15261 | k .30930 | k 99.950 | 160.92 | k .26278 | k 57.896 | ^ ----- | k .31904 | 640.07 | k .18270 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 3.6922 | k .41769 | k 54.780 | k .03863 | k .33002 | k 8.3402 | k 17.848 | k .95784 | 1.1806 | k .23571 |
| Stddev | .0002 | .00070 | .087 | .00113 | .00310 | .0469 | .100 | .00223 | .0041 | .00068 |
| %RSD | .00638 | .16801 | .15890 | 2.9178 | .93914 | .56298 | .56298 | .23233 | .34975 | .28866 |
| #1 | 3.6924 | k .41819 | k 54.841 | k .03943 | k .33221 | k 8.3070 | k 17.777 | k .95626 | 1.1776 | k .23619 |
| #2 | 3.6921 | k .41720 | k 54.718 | k .03783 | k .32783 | k 8.3734 | k 17.919 | k .95941 | 1.1835 | k .23523 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k 1.7694 | k .41052 | k -.00330 | k .03260 | k 1.8042 | k .08833 |
| Stddev | .0018 | .00035 | .00939 | .00037 | .0016 | .00086 |
| %RSD | .10221 | .08471 | 284.85 | 1.1345 | .09060 | .96823 |
| #1 | k 1.7681 | k .41076 | k -.00994 | k .03286 | k 1.8031 | k .08773 |
| #2 | k 1.7707 | k .41027 | k .00334 | k .03233 | k 1.8054 | k .08894 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8422.4 | 82619. | 9055.1 |
| Stddev | 3.6 | 51. | 18.8 |
| %RSD | .04297 | .06220 | .20718 |
| #1 | 8425.0 | 82655. | 9068.4 |
| #2 | 8419.9 | 82582. | 9041.9 |

Sample Name: 280-42456-a-1-aSD@5 Acquired: 5/23/2013 21:26:19 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00225** | **21.832** | **.03323** | **.11692** | **.40220** | **.00296** | **.04753** | **32.580** | **.00776** | **.03206** |
| Stddev | .00012 | .060 | .00092 | .00024 | .00098 | .00001 | .00024 | .077 | .00004 | .00013 |
| %RSD | 5.4302 | .27509 | 2.7721 | .20138 | .24369 | .45496 | .50054 | .23667 | .48580 | .39601 |
| #1 | .00234 | 21.790 | .03258 | .11708 | .40151 | .00297 | .04770 | 32.526 | .00773 | .03215 |
| #2 | .00216 | 21.875 | .03388 | .11675 | .40289 | .00295 | .04736 | 32.635 | .00779 | .03197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03455** | **.06656** | **20.219** | **34.259** | **.05414** | **12.811** | F **34.746** | **.07044** | **137.20** | **.04060** |
| Stddev | .00004 | .00001 | .059 | .011 | .00043 | .044 | .066 | .00016 | 1.03 | .00001 |
| %RSD | .11463 | .01339 | .28969 | .03086 | .79720 | .34693 | .18889 | .22983 | .75333 | .02033 |
| #1 | .03452 | .06655 | 20.177 | 34.251 | .05445 | 12.779 | 34.792 | .07032 | 136.47 | .04059 |
| #2 | .03458 | .06656 | 20.260 | 34.266 | .05384 | 12.842 | 34.700 | .07055 | 137.93 | .04060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 20.000 | | | |
| Low Limit | | | | | | | -.02000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.79786** | **.09611** | **11.629** | **.01059** | **.05201** | **1.7973** | **3.8463** | **.21992** | **.25096** | **.03377** |
| Stddev | .00086 | .00093 | .031 | .00109 | .00193 | .0169 | .0361 | .00093 | .00042 | .00154 |
| %RSD | .10732 | .96713 | .26706 | 10.284 | 3.7158 | .93898 | .93898 | .42292 | .16889 | 4.5639 |
| #1 | .79726 | .09677 | 11.607 | .00982 | .05338 | 1.7854 | 3.8207 | .21927 | .25066 | .03268 |
| #2 | .79847 | .09546 | 11.651 | .01136 | .05065 | 1.8093 | 3.8718 | .22058 | .25126 | .03486 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37639** | **.06314** | **.01826** | **.17356** | **.39798** | **.02095** |
| Stddev | .00067 | .00020 | .00311 | .00042 | .00032 | .00032 |
| %RSD | .17669 | .31470 | 17.027 | .24413 | .08057 | 1.5294 |
| #1 | .37592 | .06300 | .02046 | .17386 | .39776 | .02072 |
| #2 | .37686 | .06328 | .01606 | .17326 | .39821 | .02117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8397.1** | **84967.** | **8714.5** |
| Stddev | 14.0 | 212. | 16.1 |
| %RSD | .16697 | .24975 | .18425 |
| #1 | 8387.1 | 85117. | 8725.8 |
| #2 | 8407.0 | 84817. | 8703.1 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 21:28:35 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00185** | **49.632** | **-.00118** | **.02583** | **-.00013** | **-.00002** | **1.0418** | **-.00146** | **.00057** | **.00041** | **-.00002** | **.00021** |
| Stddev | .00085 | .090 | .00194 | .00115 | .00013 | .00002 | .0013 | .00338 | .00017 | .00020 | .00003 | .00014 |
| %RSD | 45.644 | .18161 | 164.89 | 4.4422 | 100.25 | 111.97 | .12807 | 231.31 | 30.218 | 49.330 | 100.34 | 66.907 |
| #1 | -.00245 | 49.568 | -.00255 | .02664 | -.00004 | .00000 | 1.0428 | -.00386 | .00044 | .00027 | -.00004 | .00031 |
| #2 | -.00126 | 49.696 | .00020 | .02502 | -.00022 | -.00003 | 1.0409 | .00093 | .00069 | .00055 | -.00001 | .00011 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.091** | **.46867** | **.00220** | **.04344** | **.00828** | **-.00042** | **258.60** | **.00035** | **.00643** | **-.00197** | **4.9826** | **-.00154** |
| Stddev | .005 | .04522 | .00352 | .00131 | .00066 | .00016 | .18 | .00014 | .00082 | .00036 | .0037 | .00005 |
| %RSD | .00970 | 9.6475 | 160.20 | 3.0200 | 7.9293 | 36.834 | .07041 | 40.306 | 12.791 | 18.469 | .07447 | 3.2188 |
| #1 | 51.088 | .50065 | -.00029 | .04437 | .00874 | -.00053 | 258.48 | .00044 | .00702 | -.00223 | 4.9800 | -.00158 |
| #2 | 51.095 | .43670 | .00469 | .04252 | .00782 | -.00031 | 258.73 | .00025 | .00585 | -.00171 | 4.9853 | -.00151 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01044** | **.00697** | **.01492** | **-.00067** | **.00044** | **4.9547** | **.00163** | **.00143** | W **10.515** | **-.00027** | **.00158** | **.00115** |
| Stddev | .00117 | .00157 | .00335 | .00008 | .00006 | .0087 | .00013 | .00009 | .081 | .00031 | .00030 | .00250 |
| %RSD | 11.180 | 22.473 | 22.473 | 11.696 | 14.306 | .17650 | 8.1914 | 6.3184 | .76808 | 112.55 | 19.039 | 217.06 |
| #1 | .01126 | .00587 | .01255 | -.00073 | .00048 | 4.9486 | .00154 | .00150 | 10.458 | -.00006 | .00179 | -.00062 |
| #2 | .00961 | .00808 | .01730 | -.00061 | .00040 | 4.9609 | .00173 | .00137 | 10.572 | -.00049 | .00137 | .00292 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8200.2** | **82682.** | **8476.8** |
| Stddev | 20.6 | 490. | 28.3 |
| %RSD | .25174 | .59235 | .33355 |
| #1 | 8214.8 | 83028. | 8496.8 |
| #2 | 8185.6 | 82335. | 8456.9 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 21:30:56 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51791** | **.52435** | **1.0183** | **.53805** | **.50376** | **.48726** | **-.00093** | **5.0030** | **.50114** | **.51143** | **.52102** | **.51080** | **2.4839** |
| Stddev | .00008 | .00007 | .0010 | .00031 | .00148 | .00023 | .00020 | .0123 | .00073 | .00031 | .00098 | .00106 | .0039 |
| %RSD | .01471 | .01348 | .09583 | .05743 | .29342 | .04690 | 21.592 | .24624 | .14625 | .06066 | .18849 | .20701 | .15870 |
| #1 | .51796 | .52430 | 1.0190 | .53783 | .50271 | .48710 | -.00079 | 4.9943 | .50062 | .51121 | .52033 | .51006 | 2.4867 |
| #2 | .51785 | .52440 | 1.0176 | .53827 | .50480 | .48742 | -.00108 | 5.0117 | .50166 | .51165 | .52171 | .51155 | 2.4811 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.940** | **.96805** | **20.114** | **.50565** | **.51595** | **5.0351** | **.52537** | **1.0187** | **1.0110** | **.00730** | **1.0140** | **1.0343** | **5.2279** |
| Stddev | .044 | .00155 | .008 | .00056 | .00106 | .0074 | .00038 | .0009 | .0020 | .00066 | .0033 | .0001 | .0316 |
| %RSD | .08744 | .15992 | .04051 | .11052 | .20551 | .14786 | .07305 | .09264 | .19398 | 8.9935 | .32419 | .00631 | .60510 |
| #1 | 49.909 | .96696 | 20.119 | .50605 | .51520 | 5.0298 | .52509 | 1.0180 | 1.0124 | .00683 | 1.0116 | 1.0342 | 5.2055 |
| #2 | 49.971 | .96915 | 20.108 | .50526 | .51670 | 5.0403 | .52564 | 1.0194 | 1.0096 | .00776 | 1.0163 | 1.0343 | 5.2503 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.188** | **1.0297** | **.50383** | **.00182** | **.50733** | **1.0335** | **.01940** | **.48784** | **.50906** | **.50642** |
| Stddev | .068 | .0012 | .00077 | .00099 | .00034 | .0002 | .00982 | .00067 | .00142 | .00129 |
| %RSD | .60510 | .11683 | .15250 | 54.071 | .06690 | .01858 | 50.644 | .13710 | .27834 | .25403 |
| #1 | 11.140 | 1.0288 | .50329 | .00252 | .50709 | 1.0336 | .01245 | .48831 | .51006 | .50551 |
| #2 | 11.236 | 1.0305 | .50438 | .00113 | .50757 | 1.0333 | .02634 | .48737 | .50806 | .50733 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8350.9** | **85427.** | **8490.0** |
| Stddev | 2.1 | 494. | 57.2 |
| %RSD | .02484 | .57776 | .67379 |
| #1 | 8352.4 | 85078. | 8530.5 |
| #2 | 8349.4 | 85776. | 8449.6 |

Sample Name: CCB Acquired: 5/23/2013 21:33:02 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00071** | **.00041** | **-.00025** | F **.02104** | **-.00019** | **-.00002** | **-.00098** | **.00002** | **.00013** | **.00000** | **.00020** |
| Stddev | .00020 | .00005 | .00123 | .00009 | .00025 | .00017 | .00004 | .00145 | .00006 | .0001 | .00017 |
| %RSD | 28.688 | 11.055 | 490.82 | .44670 | 131.65 | 1020.9 | 4.4984 | 8651.9 | 47.308 | 7259.6 | 83.882 |
| #1 | -.00086 | .00038 | .00062 | .02098 | -.00037 | .00010 | -.00101 | -.00101 | .00009 | -.00010 | .00008 |
| #2 | -.00057 | .00044 | -.00112 | .02111 | -.00001 | -.00014 | -.00094 | .00105 | .00017 | .00010 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00034** | F **.31016** | **.00137** | **.00215** | F **.00059** | **.00021** | **.07461** | **.00017** | **.00137** | **-.00123** |
| Stddev | .00010 | .00198 | .01456 | .00087 | .00064 | .00003 | .00007 | .00807 | .00017 | .00029 | .00024 |
| %RSD | 39.878 | 587.82 | 4.6957 | 63.595 | 29.865 | 5.8372 | 34.123 | 10.811 | 97.921 | 21.124 | 19.172 |
| #1 | .00031 | -.00106 | .32046 | .00198 | .00260 | .00061 | .00016 | .08032 | .00005 | .00158 | -.00106 |
| #2 | .00017 | .00174 | .29986 | .00075 | .00170 | .00056 | .00026 | .06891 | .00029 | .00117 | -.00139 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | .00050 | | | | | |
| Low Limit | | | -.25000 | | | -.00050 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00673** | W **.00325** | **.00422** | **.02520** | **.05392** | **-.00031** | **.00000** | **.00102** | W **-.00065** | **.00069** | **.00397** |
| Stddev | .00276 | .00057 | .00014 | .00722 | .01546 | .00032 | .0001 | .00039 | .00019 | .00075 | .01669 |
| %RSD | 41.034 | 17.470 | 3.3890 | 28.672 | 28.672 | 103.65 | 1924.4 | 38.103 | 28.751 | 109.66 | 420.51 |
| #1 | .00868 | .00285 | .00412 | .02009 | .04299 | -.00053 | .00006 | .00129 | -.00079 | .00015 | -.00783 |
| #2 | .00478 | .00365 | .00432 | .03031 | .06485 | -.00008 | -.00007 | .00074 | -.00052 | .00122 | .01577 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | .00060 | | |
| Low Limit | | -.00314 | | | | | | | -.00060 | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00002** | **.00224** | **.00055** |
| Stddev | .00047 | .00003 | .00251 |
| %RSD | 2632.5 | 1.2228 | 458.17 |
| #1 | .00035 | .00222 | .00233 |
| #2 | -.00031 | .00226 | -.00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8368.9** | **86826.** | **8389.1** |
| Stddev | 8.3 | 465. | 87.5 |
| %RSD | .09885 | .53550 | 1.0434 |
| #1 | 8374.8 | 86497. | 8451.0 |
| #2 | 8363.1 | 87154. | 8327.2 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 21:35:16 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00997** | **.10830** | **.01490** | **.12377** | **.00998** | **.00097** | **.12025** | **.20591** | **.00475** | **.01062** | **.01063** | **.01587** | **.10198** |
| Stddev | .00045 | .00006 | .00090 | .00027 | .00012 | .00007 | .00177 | .00396 | .00006 | .00026 | .00007 | .00012 | .00438 |
| %RSD | 4.4960 | .05853 | 6.0286 | .21630 | 1.2015 | 7.1150 | 1.4706 | 1.9221 | 1.3280 | 2.4372 | .61917 | .73736 | 4.2964 |
| #1 | .00966 | .10826 | .01426 | .12396 | .00989 | .00102 | .12150 | .20311 | .00479 | .01044 | .01068 | .01595 | .09888 |
| #2 | .01029 | .10835 | .01553 | .12358 | .01006 | .00092 | .11900 | .20870 | .00470 | .01081 | .01059 | .01579 | .10508 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2692** | **.01214** | **.21276** | **.01052** | **.02108** | **1.0875** | **.04341** | **3.0372** | **.00866** | **.00617** | **.01058** | **.01505** | **.57244** |
| Stddev | .0321 | .00024 | .00093 | .00004 | .00005 | .0076 | .00016 | .0070 | .00044 | .00151 | .00151 | .00427 | .01515 |
| %RSD | .98333 | 1.9659 | .43877 | .40624 | .24285 | .70158 | .35790 | .22950 | 5.1083 | 24.485 | 14.255 | 28.385 | 2.6470 |
| #1 | 3.2464 | .01231 | .21210 | .01049 | .02104 | 1.0821 | .04330 | 3.0323 | .00835 | .00724 | .00952 | .01807 | .56173 |
| #2 | 3.2919 | .01198 | .21342 | .01055 | .02112 | 1.0929 | .04352 | 3.0421 | .00898 | .00511 | .01165 | .01203 | .58316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2250** | **.10725** | **.01026** | **.01356** | **.00988** | **.01679** | F **.11216** | **.00949** | **.02254** | **.01611** |
| Stddev | .0324 | .00034 | .00006 | .00035 | .00012 | .00074 | .03415 | .00059 | .00019 | .00296 |
| %RSD | 2.6470 | .31928 | .55883 | 2.5533 | 1.2311 | 4.4246 | 30.445 | 6.2114 | .82136 | 18.398 |
| #1 | 1.2021 | .10749 | .01022 | .01381 | .00996 | .01731 | .08801 | .00907 | .02267 | .01401 |
| #2 | 1.2480 | .10701 | .01030 | .01332 | .00979 | .01626 | .13630 | .00990 | .02241 | .01820 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8478.6** | **87539.** | **8474.5** |
| Stddev | 7.9 | 586. | 48.4 |
| %RSD | .09341 | .66981 | .57145 |
| #1 | 8484.2 | 87954. | 8440.3 |
| #2 | 8473.0 | 87125. | 8508.8 |

Sample Name: 280-42456-a-2-a  Acquired: 5/23/2013 21:37:31  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.02244** | k **36.600** | k **.05233** | **.80566** | **.57569** | k **.01322** | k **.03053** | **32.945** | k **.01942** | k **.07981** |
| Stddev | .00710 | .023 | .00138 | .00050 | .00060 | .00030 | .00550 | .033 | .00045 | .00260 |
| %RSD | 31.628 | .06379 | 2.6382 | .06224 | .10490 | 2.2808 | 18.018 | .10015 | 2.3196 | 3.2636 |
| #1 | k .02746 | k 36.583 | k .05330 | .80531 | .57612 | k .01300 | k .02664 | 32.969 | k .01910 | k .08165 |
| #2 | .01742 | 36.616 | .05135 | .80602 | .57526 | .01343 | .03442 | 32.922 | .01973 | .07797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.06877** | k **.31684** | k **47.803** | **86.820** | k **.19491** | k **15.261** | ^ ***** | k **.09038** | **400.24** | k **.10259** |
| Stddev | .00127 | .00008 | .116 | .049 | .00024 | .052 | ----- | .00046 | .93 | .00144 |
| %RSD | 1.8413 | .02508 | .24360 | .05661 | .12366 | .33952 | ----- | .50769 | .23170 | 1.4066 |
| #1 | k .06787 | k .31679 | k 47.886 | 86.786 | k .19508 | k 15.225 | ^ ----- | k .09006 | 400.89 | k .10361 |
| #2 | .06966 | .31690 | 47.721 | 86.855 | .19474 | 15.298 | 43.766 | .09070 | 399.58 | .10157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3838** | k **.47746** | kF **548.16** | k **.02484** | k **.06203** | k **6.4663** | k **13.838** | k **.30073** | **.48118** | k **.07324** |
| Stddev | .0008 | .00132 | .47 | .00158 | .02410 | .0128 | .027 | .00535 | .00019 | .02810 |
| %RSD | .03263 | .27635 | .08519 | 6.3647 | 38.859 | .19749 | .19749 | 1.7796 | .03857 | 38.371 |
| #1 | 2.3844 | k .47653 | k 547.83 | k .02372 | k .07907 | k 6.4573 | k 13.819 | k .29695 | .48105 | k .09312 |
| #2 | 2.3833 | .47839 | 548.49 | .02595 | .04499 | 6.4753 | 13.857 | .30452 | .48131 | .05337 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **1.6670** | k **.08302** | k **.00902** | k **.20310** | k **.72247** | k **.03551** |
| Stddev | .0036 | .02805 | .01615 | .14017 | .00194 | .00032 |
| %RSD | .21314 | 33.779 | 178.99 | 69.016 | .26914 | .90181 |
| #1 | k 1.6645 | k .10286 | k -.00240 | k .10399 | k .72109 | k .03529 |
| #2 | 1.6695 | .06319 | .02044 | .30222 | .72384 | .03574 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8472.4** | **82697.** | **8968.4** |
| Stddev | 7.8 | 43. | 64.9 |
| %RSD | .09153 | .05164 | .72326 |
| #1 | 8466.9 | 82728. | 8922.5 |
| #2 | 8477.9 | 82667. | 9014.2 |

Sample Name: 280-42456-a-3-a  Acquired: 5/23/2013 21:39:50  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00001** | k **15.090** | k **.11340** | **2.0366** | **.08945** | k **.00099** | k **.00977** | **265.51** | k **.00741** | k **.01276** |
| Stddev | .00042 | .068 | .00526 | .0030 | .00022 | .00004 | .00117 | 1.68 | .00001 | .00009 |
| %RSD | 6302.9 | .45125 | 4.6396 | .14617 | .24301 | 3.9275 | 11.963 | .63396 | .07667 | .68090 |
| #1 | k -.00029 | k 15.042 | k .10967 | 2.0345 | .08960 | k .00102 | k .01059 | 266.70 | k .00741 | k .01270 |
| #2 | k .00030 | k 15.138 | k .11712 | 2.0387 | .08929 | k .00096 | k .00894 | 264.32 | k .00742 | k .01282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.08228** | **1.7043** | k **44.836** | W **174.07** | k **1.0379** | k **273.99** | k **.96321** | k **.03914** | W **5952.7** | k **.29343** |
| Stddev | .00015 | .0041 | .000 | .82 | .0036 | 2.58 | .00206 | .00035 | 1.7 | .00059 |
| %RSD | .17709 | .24086 | .00072 | .46862 | .35022 | .94104 | .21419 | .88688 | .02906 | .19995 |
| #1 | k .08218 | 1.7072 | k 44.836 | 173.49 | k 1.0353 | k 272.17 | k .96467 | k .03939 | 5953.9 | k .29384 |
| #2 | k .08238 | 1.7014 | k 44.835 | 174.65 | k 1.0404 | k 275.81 | k .96175 | k .03890 | 5951.4 | k .29301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.4512** | k **.04767** | kF **879.71** | k **.00477** | k **.01121** | k **16.313** | k **34.909** | k **.07587** | W **5.4806** | k **.03029** |
| Stddev | .0052 | .00163 | 1.60 | .00188 | .00360 | .070 | .151 | .00012 | .1504 | .00093 |
| %RSD | .15060 | 3.4177 | .18196 | 39.432 | 32.156 | .43145 | .43145 | .15677 | 2.7446 | 3.0644 |
| #1 | 3.4476 | k .04652 | k 880.84 | k .00610 | k .00866 | k 16.263 | k 34.802 | k .07595 | 5.5869 | k .02964 |
| #2 | 3.4549 | k .04882 | k 878.58 | k .00344 | k .01375 | k 16.362 | k 35.015 | k .07578 | 5.3742 | k .03095 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | 5.0000 | |
| Low Limit | -1.0000 | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.10702** | k **.00034** | k **.01685** | k **.03822** | k **5.0775** | k **.00555** |
| Stddev | .00153 | .00007 | .03500 | .00038 | .0062 | .00142 |
| %RSD | 1.4263 | 19.915 | 207.77 | .98130 | .12144 | 25.632 |
| #1 | k .10810 | k .00029 | k .04160 | k .03849 | k 5.0819 | k .00454 |
| #2 | k .10594 | k .00039 | k -.00790 | k .03796 | k 5.0731 | k .00655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6865.0** | **67286.** | **8147.9** |
| Stddev | 33.9 | 291. | 11.2 |
| %RSD | .49422 | .43259 | .13796 |
| #1 | 6889.0 | 67080. | 8140.0 |
| #2 | 6841.0 | 67492. | 8155.9 |

Sample Name: 280-42456-a-4-a  Acquired: 5/23/2013 21:43:42  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .31140 | W 613.74 | .86863 | 1.4207 | 4.8268 | .01675 | F .30062 | F 1409.1 | .99700 | W 7.1497 |
| Stddev | .00077 | 2.42 | .00661 | .0063 | .0057 | .00005 | .00235 | 15.6 | .00150 | .0108 |
| %RSD | .24610 | .39499 | .76135 | .44011 | .11747 | .32088 | .78163 | 1.1035 | .15071 | .15083 |
| #1 | .31086 | 612.02 | .87331 | 1.4251 | 4.8228 | .01671 | .29895 | 1398.1 | .99807 | 7.1574 |
| #2 | .31194 | 615.45 | .86396 | 1.4163 | 4.8308 | .01679 | .30228 | 1420.1 | .99594 | 7.1421 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Warn |
| High Limit | .10000 | 500.00 | | | | | .10000 | 1000.0 | | 1.0000 |
| Low Limit | -.01000 | 3.2000 | | | | | -.10000 | -.10000 | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.3400 | F 110.63 | W 544.18 | W 114.68 | .36856 | 453.17 | W 14.124 | W 17.473 | W 561.95 | W 16.358 |
| Stddev | .0158 | .03 | .36 | .46 | .00052 | 2.25 | .162 | .036 | .78 | .042 |
| %RSD | .24900 | .02664 | .06662 | .40378 | .14072 | .49623 | 1.1439 | .20494 | .13964 | .25492 |
| #1 | 6.3512 | 110.61 | 543.93 | 114.35 | .36893 | 454.76 | 14.238 | 17.498 | 561.40 | 16.387 |
| #2 | 6.3289 | 110.65 | 544.44 | 115.00 | .36819 | 451.58 | 14.010 | 17.448 | 562.51 | 16.328 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Warn | Chk Warn |
| High Limit | | 50.000 | 500.00 | 100.00 | | | 10.000 | 5.0000 | 500.00 | 10.000 |
| Low Limit | | -.02000 | 40.000 | -.50000 | | | -.01000 | -.01000 | 11.000 | -.01000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 58.636 | W 15.124 | F 380.98 | .83920 | .14118 | 21.871 | 46.803 | W 2.4313 | F 43.702 | .15846 |
| Stddev | .148 | .011 | .86 | .00267 | .00705 | .450 | .964 | .0047 | .497 | .00036 |
| %RSD | .25298 | .07506 | .22585 | .31800 | 4.9933 | 2.0593 | 2.0593 | .19174 | 1.1383 | .22733 |
| #1 | 58.740 | 15.132 | 381.59 | .83732 | .14616 | 22.189 | 47.485 | 2.4346 | 43.351 | .15820 |
| #2 | 58.531 | 15.116 | 380.37 | .84109 | .13619 | 21.552 | 46.122 | 2.4280 | 44.054 | .15871 |
| Check ? | Chk Fail | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass |
| High Limit | 50.000 | 10.000 | 200.00 | | | | | 2.0000 | 20.000 | |
| Low Limit | -2.0000 | -.00300 | -.20000 | | | | | -.05000 | -.02000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.0118 | F -.05808 | F -.16073 | 8.3958 | F 54.392 | .14757 |
| Stddev | .0054 | .00043 | .03174 | .0323 | .365 | .00065 |
| %RSD | .08961 | .74865 | 19.745 | .38480 | .67168 | .44076 |
| #1 | 6.0156 | -.05777 | -.13829 | 8.3729 | 54.133 | .14803 |
| #2 | 6.0080 | -.05839 | -.18317 | 8.4186 | 54.650 | .14711 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | 20.000 | 50.000 | | 50.000 | |
| Low Limit | | -.02000 | -.10000 | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 9348.4 | 91630. | 11692. |
| Stddev | 2.7 | 430. | 25. |
| %RSD | .02887 | .46970 | .21457 |
| #1 | 9346.5 | 91326. | 11709. |
| #2 | 9350.4 | 91935. | 11674. |

Sample Name: 280-42456-a-5-a  Acquired: 5/23/2013 21:47:56  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 1.0040 | 17.376 | .17983 | 1.2813 | .70825 | .00091 | .00407 | 120.66 | .03403 | .01993 |
| Stddev | .0021 | .067 | .00111 | .0063 | .00110 | .00008 | .00005 | .19 | .00008 | .00002 |
| %RSD | .21019 | .38417 | .61739 | .49045 | .15518 | 9.2702 | 1.1599 | .15593 | .24172 | .08222 |
| #1 | 1.0055 | 17.423 | .18062 | 1.2769 | .70903 | .00085 | .00404 | 120.79 | .03408 | .01991 |
| #2 | 1.0025 | 17.329 | .17905 | 1.2858 | .70747 | .00097 | .00411 | 120.52 | .03397 | .01994 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .20311 | 1.0073 | 48.978 | W 182.90 | .08617 | 53.947 | 5.3647 | .23622 | W 991.74 | .22033 |
| Stddev | .00012 | .0003 | .137 | .22 | .00204 | .121 | .0431 | .00143 | 2.20 | .00102 |
| %RSD | .05717 | .02727 | .28022 | .12218 | 2.3717 | .22379 | .80306 | .60575 | .22137 | .46507 |
| #1 | .20303 | 1.0075 | 49.075 | 183.06 | .08473 | 54.033 | 5.3342 | .23520 | 993.29 | .21961 |
| #2 | .20319 | 1.0071 | 48.881 | 182.75 | .08762 | 53.862 | 5.3951 | .23723 | 990.18 | .22106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 9.7700 | .18881 | F 455.63 | .44756 | .11805 | 32.869 | 70.341 | F 69.079 | 1.3270 | .00946 |
| Stddev | .0149 | .00032 | 1.33 | .00168 | .00359 | .002 | .004 | .005 | .0020 | .00094 |
| %RSD | .15261 | .16806 | .29122 | .37503 | 3.0432 | .00508 | .00508 | .00726 | .15038 | 9.9360 |
| #1 | 9.7595 | .18858 | 454.69 | .44638 | .11551 | 32.868 | 70.338 | 69.082 | 1.3285 | .00879 |
| #2 | 9.7806 | .18903 | 456.57 | .44875 | .12059 | 32.871 | 70.343 | 69.075 | 1.3256 | .01012 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | 20.000 | | |
| Low Limit | -1.0000 | | -.20000 | | | | | -.10000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .33222 | .00071 | .00673 | .06382 | 1.8058 | .00646 |
| Stddev | .00072 | .00039 | .02475 | .00017 | .0053 | .00024 |
| %RSD | .21586 | 55.412 | 367.57 | .26944 | .29602 | 3.6505 |
| #1 | .33273 | .00043 | .02423 | .06394 | 1.8095 | .00629 |
| #2 | .33171 | .00098 | -.01077 | .06370 | 1.8020 | .00663 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 7782.1 | 76346. | 8318.7 |
| Stddev | 29.1 | 14. | 50.6 |
| %RSD | .37331 | .01859 | .60808 |
| #1 | 7761.5 | 76336. | 8283.0 |
| #2 | 7802.6 | 76356. | 8354.5 |

Sample Name: 280-42456-a-6-a  Acquired: 5/23/2013 21:50:18  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1553** | **19.390** | **.06482** | **3.9431** | **.58202** | **.00213** | **.00221** | **175.65** | **.01521** | **.01166** |
| Stddev | .0055 | .041 | .00005 | .0089 | .00028 | .00003 | .00298 | .98 | .00013 | .00003 |
| %RSD | .25478 | .21025 | .07216 | .22557 | .04800 | 1.3340 | 135.04 | .55543 | .84967 | .27147 |
| #1 | 2.1515 | 19.361 | .06485 | 3.9368 | .58183 | .00211 | .00431 | 176.34 | .01512 | .01164 |
| #2 | 2.1592 | 19.419 | .06479 | 3.9494 | .58222 | .00215 | .00010 | 174.96 | .01530 | .01168 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -.02000 | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17232** | **1.5391** | **77.473** | **67.385** | **.07139** | **54.388** | **4.4252** | **.03405** | W **834.98** | **.70413** |
| Stddev | .00017 | .0057 | .181 | .072 | .00317 | .204 | .0464 | .00052 | 1.37 | .00188 |
| %RSD | .09937 | .36899 | .23417 | .10663 | 4.4393 | .37558 | 1.0484 | 1.5133 | .16464 | .26673 |
| #1 | .17220 | 1.5351 | 77.345 | 67.436 | .06915 | 54.244 | 4.3924 | .03369 | 834.01 | .70281 |
| #2 | .17244 | 1.5431 | 77.601 | 67.335 | .07363 | 54.533 | 4.4580 | .03441 | 835.96 | .70546 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.2245** | **.06657** | F **1021.9** | **.00380** | **.01118** | **37.143** | **79.486** | **.21701** | **1.6112** | **.01508** |
| Stddev | .0010 | .00105 | .6 | .00257 | .00523 | .030 | .064 | .00521 | .0004 | .00002 |
| %RSD | .04528 | 1.5764 | .05470 | 67.579 | 46.754 | .08018 | .08018 | 2.4001 | .02452 | .15486 |
| #1 | 2.2238 | .06731 | 1021.5 | .00198 | .01487 | 37.122 | 79.441 | .21333 | 1.6109 | .01506 |
| #2 | 2.2252 | .06583 | 1022.3 | .00561 | .00748 | 37.164 | 79.531 | .22069 | 1.6114 | .01509 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13646** | **.00245** | W **-.06497** | **.06389** | **8.3677** | **.01186** |
| Stddev | .00089 | .00028 | .02445 | .00079 | .0263 | .00007 |
| %RSD | .65408 | 11.359 | 37.629 | 1.2295 | .31428 | .61654 |
| #1 | .13583 | .00226 | -.08225 | .06333 | 8.3491 | .01191 |
| #2 | .13709 | .00265 | -.04768 | .06444 | 8.3863 | .01181 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7882.6** | **77758.** | **8745.7** |
| Stddev | 9.5 | 258. | 39.4 |
| %RSD | .12066 | .33231 | .45031 |
| #1 | 7875.9 | 77941. | 8717.9 |
| #2 | 7889.3 | 77576. | 8773.6 |

Sample Name: 280-42456-a-7-a  Acquired: 5/23/2013 21:52:53  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175289 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01057** | **16.644** | **.01926** | **1.2391** | **.28860** | **.00067** | **-.00613** | **123.27** | **.00541** | **.00949** |
| Stddev | .00005 | .047 | .00113 | .0041 | .00134 | .00002 | .00029 | .43 | .00011 | .00011 |
| %RSD | .43297 | .28435 | 5.8608 | .32894 | .46489 | 3.2916 | 4.6622 | .35135 | 1.9572 | 1.1832 |
| #1 | .01054 | 16.610 | .02006 | 1.2420 | .28765 | .00066 | -.00593 | 122.96 | .00534 | .00941 |
| #2 | .01061 | 16.677 | .01846 | 1.2362 | .28954 | .00069 | -.00633 | 123.57 | .00549 | .00957 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19863** | **1.3673** | **61.143** | W **309.94** | **.10189** | **32.005** | **1.3601** | **.02230** | **477.03** | **1.7359** |
| Stddev | .00097 | .0011 | .425 | 1.22 | .00074 | .034 | .0019 | .00006 | .95 | .0008 |
| %RSD | .48746 | .07794 | .69570 | .39370 | .72857 | .10551 | .14177 | .26198 | .20016 | .04576 |
| #1 | .19932 | 1.3665 | 60.842 | 309.08 | .10137 | 31.981 | 1.3588 | .02234 | 476.35 | 1.7364 |
| #2 | .19795 | 1.3680 | 61.444 | 310.80 | .10242 | 32.029 | 1.3615 | .02226 | 477.70 | 1.7353 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 100.00 | | | | | | |
| Low Limit | | | | -.50000 | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7692** | **.05213** | F **463.44** | **.00193** | **.00887** | **36.626** | **78.380** | **.06712** | **1.0294** | **.00443** |
| Stddev | .0060 | .00076 | .66 | .00059 | .00100 | .159 | .339 | .00029 | .0025 | .00299 |
| %RSD | .34097 | 1.4650 | .14209 | 30.594 | 11.254 | .43283 | .43283 | .43345 | .24534 | 67.524 |
| #1 | 1.7649 | .05267 | 462.97 | .00151 | .00958 | 36.514 | 78.140 | .06733 | 1.0276 | .00654 |
| #2 | 1.7735 | .05159 | 463.90 | .00235 | .00817 | 36.738 | 78.620 | .06692 | 1.0311 | .00231 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20600** | **-.00129** | **.01356** | **.04883** | **8.0472** | **.00903** |
| Stddev | .00076 | .00121 | .02598 | .00027 | .0204 | .00232 |
| %RSD | .36783 | 93.904 | 191.64 | .54492 | .25299 | 25.689 |
| #1 | .20546 | -.00043 | -.00481 | .04864 | 8.0328 | .00739 |
| #2 | .20653 | -.00215 | .03192 | .04902 | 8.0616 | .01067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8018.6** | **79995.** | **8736.4** |
| Stddev | .1 | 329. | 18.1 |
| %RSD | .00117 | .41160 | .20773 |
| #1 | 8018.7 | 80227. | 8749.2 |
| #2 | 8018.5 | 79762. | 8723.5 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 21:55:10 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00080** | **50.382** | **.00196** | **.01994** | **.00014** | **-.00002** | **1.0467** | **.09014** | **.00060** | **.00068** | **.00028** | **.00435** |
| Stddev | .00049 | .066 | .00128 | .00061 | .00009 | .00007 | .0049 | .01045 | .00028 | .00008 | .00008 | .00077 |
| %RSD | 60.539 | .13062 | 65.587 | 3.0545 | 67.567 | 285.56 | .46642 | 11.596 | 47.458 | 11.563 | 27.679 | 17.685 |
| #1 | -.00046 | 50.428 | .00105 | .02037 | .00021 | .00002 | 1.0502 | .09753 | .00040 | .00063 | .00023 | .00489 |
| #2 | -.00115 | 50.335 | .00286 | .01951 | .00007 | -.00007 | 1.0433 | .08275 | .00080 | .00074 | .00034 | .00380 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.742** | **1.3600** | **.00373** | **.07042** | **.00224** | **.00099** | **260.87** | **.00071** | **.00883** | **-.00276** | W **5.3193** | **-.00108** |
| Stddev | .225 | .1340 | .00204 | .00126 | .00007 | .00006 | .13 | .00034 | .00115 | .00005 | .0300 | .00093 |
| %RSD | .43474 | 9.8508 | 54.653 | 1.7883 | 3.0724 | 5.5783 | .04931 | 47.533 | 12.970 | 1.7778 | .56436 | 86.170 |
| #1 | 51.583 | 1.4548 | .00229 | .07131 | .00228 | .00096 | 260.78 | .00095 | .00802 | -.00272 | 5.3405 | -.00042 |
| #2 | 51.901 | 1.2653 | .00517 | .06953 | .00219 | .00103 | 260.96 | .00047 | .00964 | -.00279 | 5.2980 | -.00173 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Warn | None |
| Value | | | | | | | | | | | 5.0000 | |
| Range | | | | | | | | | | | 5.0000% | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00411** | **.04021** | **.08604** | **.00211** | **.00278** | **5.0272** | **.00195** | **.00091** | W **10.681** | **.00018** | **.00472** | **-.00149** |
| Stddev | .00011 | .00523 | .01120 | .00001 | .00022 | .0106 | .00035 | .00080 | .082 | .00051 | .00047 | .00352 |
| %RSD | 2.7659 | 13.018 | 13.018 | .47207 | 8.0164 | .21116 | 18.029 | 87.622 | .76960 | 279.62 | 9.9134 | 235.43 |
| #1 | .00419 | .04391 | .09396 | .00211 | .00294 | 5.0197 | .00219 | .00035 | 10.739 | .00055 | .00506 | .00099 |
| #2 | .00403 | .03650 | .07812 | .00210 | .00262 | 5.0347 | .00170 | .00147 | 10.623 | -.00018 | .00439 | -.00398 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8204.3** | **82523.** | **8483.8** |
| Stddev | 13.5 | 198. | 29.7 |
| %RSD | .16441 | .23958 | .34951 |
| #1 | 8213.8 | 82663. | 8504.7 |
| #2 | 8194.7 | 82383. | 8462.8 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 21:57:31 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52406** | W **.55019** | **1.0314** | **.53488** | **.50513** | **.49121** | **.00133** | **5.1101** | **.50673** | **.51616** | **.52412** | **.52061** |
| Stddev | .00002 | .00018 | .0073 | .00093 | .00057 | .00126 | .00100 | .0230 | .00009 | .00116 | .00044 | .00164 |
| %RSD | .00374 | .03331 | .70302 | .17397 | .11233 | .25746 | 75.700 | .44965 | .01763 | .22400 | .08343 | .31513 |
| #1 | .52408 | .55006 | 1.0263 | .53422 | .50553 | .49210 | .00204 | 5.0938 | .50667 | .51698 | .52381 | .52177 |
| #2 | .52405 | .55032 | 1.0365 | .53554 | .50473 | .49031 | .00062 | 5.1263 | .50680 | .51534 | .52442 | .51945 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | |
| Range | | 10.000% | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5174** | **50.281** | **.97435** | **20.361** | **.50786** | **.52032** | **5.3872** | **.52910** | **1.0357** | **1.0208** | **.21150** | **1.0299** |
| Stddev | .0110 | .030 | .00158 | .008 | .00003 | .00009 | .0253 | .00010 | .0002 | .0005 | .00521 | .0006 |
| %RSD | .43854 | .06048 | .16245 | .04150 | .00600 | .01811 | .46986 | .01806 | .01903 | .04860 | 2.4641 | .06303 |
| #1 | 2.5096 | 50.260 | .97547 | 20.355 | .50788 | .52039 | 5.4051 | .52917 | 1.0358 | 1.0211 | .21519 | 1.0304 |
| #2 | 2.5252 | 50.303 | .97323 | 20.367 | .50783 | .52026 | 5.3693 | .52903 | 1.0355 | 1.0204 | .20782 | 1.0294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0418** | **5.2524** | **11.240** | **1.0375** | **.50751** | **.00187** | **.51126** | **1.0378** | **.03273** | **.49676** | **.51620** | **.50966** |
| Stddev | .0032 | .0133 | .029 | .0004 | .00068 | .00049 | .00050 | .0001 | .00963 | .00113 | .00059 | .00266 |
| %RSD | .30454 | .25359 | .25359 | .03640 | .13432 | 26.223 | .09835 | .00702 | 29.410 | .22760 | .11370 | .52208 |
| #1 | 1.0396 | 5.2618 | 11.260 | 1.0372 | .50702 | .00222 | .51090 | 1.0378 | .02592 | .49596 | .51661 | .50778 |
| #2 | 1.0441 | 5.2430 | 11.220 | 1.0377 | .50799 | .00152 | .51161 | 1.0379 | .03954 | .49756 | .51578 | .51154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8459.7** | **86521.** | **8637.7** |
| Stddev | 29.9 | 181. | 14.5 |
| %RSD | .35340 | .20903 | .16735 |
| #1 | 8438.6 | 86649. | 8627.5 |
| #2 | 8480.8 | 86393. | 8647.9 |

Sample Name: CCB  Acquired: 5/23/2013 21:59:37  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00072** | **.00117** | **.00011** | F **.01306** | **-.00051** | **.00010** | **-.00266** | **.00582** | **.00022** | **-.00002** | **.00022** | **.00006** |
| Stddev | .00058 | .00010 | .00188 | .00012 | .00011 | .00008 | .00005 | .00111 | .00005 | .00007 | .00006 | .00024 |
| %RSD | 79.888 | 8.6888 | 1772.2 | .93202 | 21.414 | 83.359 | 1.7381 | 18.994 | 22.957 | 311.51 | 25.732 | 392.40 |
| #1 | -.00031 | .00124 | -.00122 | .01315 | -.00044 | .00016 | -.00263 | .00504 | .00026 | -.00007 | .00026 | .00023 |
| #2 | -.00113 | .00110 | .00144 | .01298 | -.00059 | .00004 | -.00270 | .00660 | .00019 | .00003 | .00018 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | F **.45963** | W **.00392** | **.00118** | **.00011** | **.00099** | W **.16047** | **.00013** | **.00212** | **-.00127** | **.09825** | W **.00419** |
| Stddev | .00196 | .04480 | .00310 | .00003 | .00001 | .00013 | .00378 | .00014 | .00004 | .00007 | .00394 | .00255 |
| %RSD | 104.37 | 9.7464 | 79.074 | 2.4024 | 8.0835 | 13.271 | 2.3532 | 109.16 | 1.9059 | 5.6134 | 4.0095 | 60.812 |
| #1 | .00049 | .49131 | .00611 | .00120 | .00011 | .00090 | .16314 | .00023 | .00215 | -.00122 | .10103 | .00239 |
| #2 | .00327 | .42796 | .00173 | .00116 | .00012 | .00108 | .15780 | .00003 | .00209 | -.00132 | .09546 | .00599 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | .25000 | .00261 | | | | .09160 | | | | | .00314 |
| Low Limit | | -.25000 | -.00261 | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **.03035** | **.06494** | **-.00017** | **.00024** | **.00114** | **-.00043** | **.00117** | **.00051** | **-.00018** | **.00240** | W **.00267** |
| Stddev | .00183 | .01178 | .02521 | .00007 | .00008 | .00105 | .00011 | .00088 | .00654 | .00020 | .00025 | .00139 |
| %RSD | 237.96 | 38.826 | 38.826 | 39.749 | 33.041 | 91.333 | 24.335 | 75.163 | 1274.0 | 112.46 | 10.265 | 51.941 |
| #1 | -.00053 | .02202 | .04711 | -.00022 | .00019 | .00188 | -.00036 | .00055 | .00513 | -.00004 | .00258 | .00169 |
| #2 | .00207 | .03868 | .08277 | -.00012 | .00030 | .00041 | -.00051 | .00179 | -.00411 | -.00031 | .00223 | .00365 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8498.5** | **87604.** | **8468.1** |
| Stddev | 21.1 | 126. | 27.9 |
| %RSD | .24806 | .14390 | .32992 |
| #1 | 8483.6 | 87515. | 8448.4 |
| #2 | 8513.4 | 87693. | 8487.9 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 22:01:52 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00968** | **.10950** | **.01752** | **.11819** | **.00989** | **.00094** | **.11846** | **.20639** | **.00536** | **.01090** | **.01066** | **.01574** | **.10044** |
| Stddev | .00014 | .00006 | .00198 | .00036 | .00011 | .00001 | .00231 | .00284 | .00000 | .00029 | .00011 | .00056 | .00089 |
| %RSD | 1.4581 | .05233 | 11.313 | .30645 | 1.1492 | 1.3323 | 1.9493 | 1.3748 | .05755 | 2.6458 | 1.0006 | 3.5843 | .88788 |
| #1 | .00978 | .10946 | .01612 | .11844 | .00980 | .00095 | .12009 | .20439 | .00535 | .01069 | .01074 | .01535 | .10107 |
| #2 | .00958 | .10954 | .01892 | .11793 | .00997 | .00093 | .11683 | .20840 | .00536 | .01110 | .01059 | .01614 | .09981 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3501** | F **.01559** | **.21667** | **.01036** | **.02150** | **1.1455** | **.04360** | **3.0580** | **.00913** | **.07292** | **.01163** | **.01804** | **.56607** |
| Stddev | .0856 | .00092 | .00286 | .00003 | .00003 | .0092 | .00047 | .0015 | .00146 | .00152 | .00057 | .00168 | .00600 |
| %RSD | 2.5549 | 5.8999 | 1.3201 | .25351 | .15366 | .80778 | 1.0870 | .05074 | 15.961 | 2.0868 | 4.8919 | 9.3150 | 1.0604 |
| #1 | 3.4107 | .01494 | .21870 | .01034 | .02147 | 1.1390 | .04327 | 3.0569 | .00810 | .07399 | .01123 | .01922 | .57031 |
| #2 | 3.2896 | .01624 | .21465 | .01038 | .02152 | 1.1521 | .04394 | 3.0591 | .01016 | .07184 | .01203 | .01685 | .56182 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2114** | **.10818** | **.01028** | **.01446** | **.01024** | **.01720** | F **.11165** | **.00986** | **.02336** | **.01763** |
| Stddev | .0129 | .00025 | .00011 | .00297 | .00040 | .00032 | .00003 | .00062 | .00014 | .00381 |
| %RSD | 1.0604 | .23015 | 1.0516 | 20.555 | 3.8582 | 1.8329 | .02808 | 6.3156 | .58668 | 21.590 |
| #1 | 1.2205 | .10836 | .01021 | .01236 | .01052 | .01698 | .11163 | .00942 | .02345 | .01494 |
| #2 | 1.2023 | .10800 | .01036 | .01656 | .00996 | .01743 | .11167 | .01031 | .02326 | .02032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8611.6** | **89049.** | **8719.3** |
| Stddev | .3 | 302. | 29.6 |
| %RSD | .00311 | .33890 | .33946 |
| #1 | 8611.4 | 89262. | 8698.4 |
| #2 | 8611.8 | 88835. | 8740.3 |

Sample Name: mb 280-175547/1-a  Acquired: 5/23/2013 22:04:08  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175547 200.7 Zn

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **.00270** | **-.00047** | **.00970** | **-.00055** | **-.00001** | **-.00048** | **.01214** | **.00000** | **.00000** |
| Stddev | .00042 | .00013 | .00287 | .00011 | .00032 | .00001 | .00097 | .00011 | .00004 | .00008 |
| %RSD | 62.197 | 4.6668 | 608.66 | 1.0984 | 58.824 | 54.846 | 200.68 | .92894 | 916.48 | 3217.1 |
| #1 | -.00098 | .00261 | -.00250 | .00963 | -.00078 | -.00002 | -.00117 | .01222 | -.00002 | .00006 |
| #2 | -.00038 | .00279 | .00156 | .00978 | -.00032 | -.00001 | .00020 | .01206 | .00003 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **-.00020** | **.03270** | **.29591** | **.00224** | **.00112** | **.00050** | **.00040** | **.12695** | **.00011** |
| Stddev | .00010 | .00000 | .00075 | .01594 | .00024 | .00047 | .00002 | .00001 | .01535 | .00036 |
| %RSD | 78.534 | 1.7976 | 2.3020 | 5.3866 | 10.633 | 42.007 | 4.3499 | 1.3555 | 12.090 | 325.86 |
| #1 | .00020 | -.00020 | .03323 | .30718 | .00240 | .00146 | .00049 | .00040 | .11609 | -.00015 |
| #2 | .00006 | -.00020 | .03216 | .28464 | .00207 | .00079 | .00052 | .00039 | .13780 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20530** | **-.00181** | W **.07143** | **-.00034** | **.00260** | **.04236** | **.09065** | **.00002** | **.00010** | **.00174** |
| Stddev | .00046 | .00101 | .00167 | .00093 | .00413 | .01167 | .02497 | .00039 | .00011 | .00067 |
| %RSD | .22276 | 55.649 | 2.3395 | 276.49 | 159.18 | 27.548 | 27.548 | 2139.9 | 108.84 | 38.261 |
| #1 | .20562 | -.00110 | .07025 | -.00099 | -.00033 | .03411 | .07299 | .00030 | .00002 | .00221 |
| #2 | .20498 | -.00252 | .07261 | .00032 | .00552 | .05061 | .10831 | -.00026 | .00017 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | | | | | |
| Low Limit | | | -.05000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.00037** | **.00456** | **.00008** | **.00272** | **-.00148** |
| Stddev | .00020 | .00115 | .00020 | .00012 | .00017 | .00019 |
| %RSD | 206.62 | 313.12 | 4.4390 | 154.68 | 6.1555 | 12.799 |
| #1 | -.00024 | -.00045 | .00442 | -.00001 | .00283 | -.00135 |
| #2 | .00005 | .00118 | .00470 | .00017 | .00260 | -.00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8556.6** | **88286.** | **8590.6** |
| Stddev | 13.6 | 309. | 74.7 |
| %RSD | .15930 | .35017 | .86898 |
| #1 | 8566.3 | 88068. | 8643.4 |
| #2 | 8547.0 | 88505. | 8537.8 |

Sample Name: lcs 280-175547/2-a Acquired: 5/23/2013 22:06:23 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175547 200.7 Zn

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05145** | **1.9369** | **1.0077** | **1.0445** | **1.9848** | **.04859** | **2.1753** | **48.929** | **.10019** | **.48918** |
| Stddev | .00051 | .0010 | .0032 | .0010 | .0005 | .00018 | .0015 | .011 | .00008 | .00038 |
| %RSD | .99643 | .05082 | .31427 | .09537 | .02482 | .37025 | .06874 | .02164 | .08037 | .07856 |
| #1 | .05181 | 1.9376 | 1.0099 | 1.0438 | 1.9844 | .04846 | 2.1764 | 48.937 | .10013 | .48945 |
| #2 | .05109 | 1.9363 | 1.0054 | 1.0452 | 1.9851 | .04871 | 2.1743 | 48.922 | .10025 | .48891 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20311** | **.25044** | **.97029** | **49.035** | **.95042** | **49.123** | **.48829** | **1.0417** | **51.388** | **.49877** |
| Stddev | .00014 | .00078 | .00030 | .054 | .00216 | .118 | .00075 | .0010 | .395 | .00029 |
| %RSD | .07089 | .31261 | .03096 | .11080 | .22699 | .23960 | .15404 | .09592 | .76953 | .05861 |
| #1 | .20321 | .24989 | .97008 | 48.997 | .94889 | 49.040 | .48776 | 1.0424 | 51.108 | .49898 |
| #2 | .20301 | .25099 | .97050 | 49.074 | .95194 | 49.207 | .48882 | 1.0410 | 51.668 | .49856 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.411** | **.48771** | **.07521** | **.53644** | **2.0473** | **10.690** | **22.876** | **2.0451** | **.99185** | **1.0000** |
| Stddev | .008 | .00094 | .00122 | .00526 | .0007 | .008 | .017 | .0052 | .00068 | .0003 |
| %RSD | .07293 | .19250 | 1.6234 | .98020 | .03239 | .07555 | .07555 | .25248 | .06814 | .02593 |
| #1 | 10.417 | .48837 | .07608 | .54016 | 2.0478 | 10.684 | 22.864 | 2.0487 | .99232 | .99984 |
| #2 | 10.406 | .48705 | .07435 | .53273 | 2.0469 | 10.695 | 22.888 | 2.0414 | .99137 | 1.0002 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0308** | **1.9505** | **2.2021** | **.49168** | **.49645** | **.51589** |
| Stddev | .0019 | .0038 | .0069 | .00113 | .00088 | .00001 |
| %RSD | .18056 | .19402 | .31466 | .22941 | .17799 | .00140 |
| #1 | 1.0295 | 1.9532 | 2.2070 | .49089 | .49583 | .51589 |
| #2 | 1.0321 | 1.9478 | 2.1972 | .49248 | .49708 | .51588 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8187.8** | **83286.** | **8458.9** |
| Stddev | .3 | 161. | 26.2 |
| %RSD | .00341 | .19362 | .30929 |
| #1 | 8187.6 | 83400. | 8477.4 |
| #2 | 8188.0 | 83172. | 8440.4 |

Sample Name: 280-42515-c-2-a  Acquired: 5/23/2013 22:08:31  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175547 200.7 Zn

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **.23965** | **.00276** | **3.2576** | **.01632** | **.00024** | **-.01784** | W **615.46** | **.00268** | **.75425** |
| Stddev | .00091 | .00080 | .00138 | .0085 | .00018 | .00004 | .00621 | 4.50 | .00023 | .00053 |
| %RSD | 191.77 | .33451 | 49.958 | .26212 | 1.1108 | 18.389 | 34.810 | .73176 | 8.5149 | .06997 |
| #1 | .00017 | .23909 | .00179 | 3.2515 | .01645 | .00021 | -.02224 | 612.28 | .00251 | .75387 |
| #2 | -.00112 | .24022 | .00374 | 3.2636 | .01619 | .00027 | -.01345 | 618.64 | .00284 | .75462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.7019** | **.44225** | **416.86** | **11.001** | **.25505** | **186.21** | W **10.670** | **.06507** | W **1507.3** | F **56.390** |
| Stddev | .0291 | .00060 | 2.69 | .064 | .00252 | 2.95 | .148 | .00067 | 4.5 | .060 |
| %RSD | .30041 | .13510 | .64599 | .58432 | .98616 | 1.5838 | 1.3877 | 1.0316 | .29664 | .10645 |
| #1 | 9.6813 | .44183 | 414.96 | 10.956 | .25328 | 188.29 | 10.775 | .06460 | 1504.2 | 56.347 |
| #2 | 9.7225 | .44267 | 418.77 | 11.047 | .25683 | 184.12 | 10.566 | .06555 | 1510.5 | 56.432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Fail |
| High Limit | | | | | | | 10.000 | | 500.00 | 50.000 |
| Low Limit | | | | | | | -.01000 | | 11.000 | -.02000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17092** | **.01556** | F **954.09** | W **-.01436** | **.00525** | **14.411** | **30.840** | **.00129** | W **9.9118** | **.01664** |
| Stddev | .00082 | .00154 | 1.85 | .00164 | .00518 | .090 | .193 | .00149 | .1138 | .00354 |
| %RSD | .47818 | 9.8780 | .19411 | 11.416 | 98.676 | .62701 | .62701 | 114.84 | 1.1484 | 21.302 |
| #1 | .17034 | .01664 | 952.78 | -.01320 | .00159 | 14.347 | 30.703 | .00024 | 9.9923 | .01915 |
| #2 | .17149 | .01447 | 955.40 | -.01552 | .00891 | 14.475 | 30.977 | .00235 | 9.8314 | .01413 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | 2.0000 | | | | | 5.0000 | |
| Low Limit | | | -.20000 | -.01000 | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00046** | **.00316** | **.06950** | **5.3664** | **.00093** |
| Stddev | .00027 | .00143 | .02107 | .00140 | .0198 | .00077 |
| %RSD | 399.68 | 309.35 | 667.66 | 2.0101 | .36819 | 83.639 |
| #1 | .00012 | -.00055 | -.01174 | .07049 | 5.3804 | .00147 |
| #2 | -.00025 | .00147 | .01805 | .06851 | 5.3525 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6924.0** | **69668.** | **7914.5** |
| Stddev | 19.3 | 586. | 67.7 |
| %RSD | .27894 | .84161 | .85538 |
| #1 | 6937.7 | 69253. | 7962.4 |
| #2 | 6910.4 | 70082. | 7866.7 |

Sample Name: 280-42515-c-2-aSD@5 Acquired: 5/23/2013 22:11:51 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175547 200.7 Zn

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00138** | **.05399** | **.00027** | **.70402** | **.00298** | **.00011** | **-.00387** | **129.20** | **.00083** | **.16068** |
| Stddev | .00013 | .00005 | .00201 | .00231 | .00014 | .00000 | .00168 | .35 | .00006 | .00000 |
| %RSD | 9.7226 | .08805 | 740.81 | .32850 | 4.6229 | 4.1040 | 43.552 | .26826 | 6.9089 | .00117 |
| #1 | -.00147 | .05403 | .00169 | .70566 | .00308 | .00012 | -.00506 | 128.95 | .00079 | .16068 |
| #2 | -.00128 | .05396 | -.00115 | .70239 | .00288 | .00011 | -.00268 | 129.44 | .00087 | .16069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0120** | **.09139** | **88.225** | **2.3088** | **.05254** | **39.119** | **2.2658** | **.01321** | **304.24** | W **12.152** |
| Stddev | .0033 | .00008 | .578 | .0787 | .00090 | .180 | .0077 | .00019 | .91 | .030 |
| %RSD | .16284 | .08875 | .65553 | 3.4088 | 1.7104 | .45998 | .33883 | 1.4272 | .30039 | .24623 |
| #1 | 2.0097 | .09145 | 87.816 | 2.2531 | .05318 | 39.246 | 2.2713 | .01308 | 303.59 | 12.131 |
| #2 | 2.0144 | .09133 | 88.634 | 2.3644 | .05190 | 38.992 | 2.2604 | .01335 | 304.89 | 12.173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 10.000 |
| Low Limit | | | | | | | | | | -.01000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03316** | **.00195** | W **198.63** | **-.00382** | **.00141** | **2.9185** | **6.2456** | **.00008** | **2.0393** | **.00259** |
| Stddev | .00052 | .00031 | .02 | .00099 | .00029 | .0051 | .0110 | .00009 | .0053 | .00332 |
| %RSD | 1.5546 | 15.987 | .01054 | 26.019 | 20.482 | .17557 | .17557 | 113.09 | .26049 | 127.97 |
| #1 | .03280 | .00173 | 198.64 | -.00453 | .00161 | 2.9221 | 6.2533 | .00002 | 2.0355 | .00494 |
| #2 | .03353 | .00217 | 198.62 | -.00312 | .00120 | 2.9149 | 6.2378 | .00014 | 2.0430 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 180.00 | | | | | | | |
| Low Limit | | | -.15000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **.00059** | **.02211** | **.01457** | **1.1497** | **.00067** |
| Stddev | .00006 | .00098 | .02855 | .00030 | .0059 | .00135 |
| %RSD | 19.196 | 165.60 | 129.10 | 2.0778 | .51573 | 200.85 |
| #1 | -.00036 | .00128 | .00193 | .01436 | 1.1539 | -.00028 |
| #2 | -.00028 | -.00010 | .04230 | .01479 | 1.1455 | .00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7620.7** | **76920.** | **7965.9** |
| Stddev | 45.1 | 433. | 84.3 |
| %RSD | .59135 | .56325 | 1.0579 |
| #1 | 7652.6 | 76613. | 8025.5 |
| #2 | 7588.9 | 77226. | 7906.3 |

Sample Name: 280-42515-c-2-b ms  Acquired: 5/23/2013 22:14:10  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175547 200.7 Zn

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05115** | **1.9400** | W **2.4358** | **1.0214** | **4.0428** | **1.9049** | **.04498** | F **1.9982** | W **622.84** | **.10006** |
| Stddev | .00005 | .0098 | .0007 | .0015 | .0134 | .0115 | .00010 | .0032 | 2.53 | .00015 |
| %RSD | .10362 | .50579 | .02955 | .15122 | .33179 | .60272 | .21960 | .15988 | .40591 | .14516 |
| #1 | .05119 | 1.9470 | 2.4352 | 1.0203 | 4.0523 | 1.8967 | .04491 | 2.0005 | 624.63 | .10016 |
| #2 | .05111 | 1.9331 | 2.4363 | 1.0225 | 4.0333 | 1.9130 | .04505 | 1.9960 | 621.05 | .09995 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | 500.00 | |
| Low Limit | | | 3.2000 | | | | | -.10000 | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1.1666** | **9.4605** | **.65585** | **399.97** | **59.306** | **1.1641** | **228.43** | W **10.617** | **1.0380** | W **1493.3** |
| Stddev | .0016 | .0344 | .00017 | 1.79 | .396 | .0084 | 3.30 | .162 | .0032 | 7.5 |
| %RSD | .14082 | .36403 | .02588 | .44807 | .66813 | .72478 | 1.4430 | 1.5284 | .31117 | .50201 |
| #1 | 1.1678 | 9.4849 | .65573 | 398.70 | 59.026 | 1.1581 | 230.77 | 10.502 | 1.0403 | 1488.0 |
| #2 | 1.1655 | 9.4362 | .65597 | 401.23 | 59.586 | 1.1700 | 226.10 | 10.731 | 1.0357 | 1498.6 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn |
| High Limit | 1.0000 | | | | | | | 10.000 | | 500.00 |
| Low Limit | -.01000 | | | | | | | -.01000 | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **54.135** | W **10.527** | **.44310** | F **919.67** | **.50442** | **2.0215** | **24.084** | **51.539** | **1.8355** | W **10.386** |
| Stddev | .208 | .051 | .00109 | 2.40 | .00083 | .0069 | .133 | .285 | .0037 | .121 |
| %RSD | .38359 | .48862 | .24499 | .26094 | .16440 | .34232 | .55355 | .55355 | .20132 | 1.1608 |
| #1 | 54.282 | 10.564 | .44387 | 921.37 | .50383 | 2.0264 | 23.990 | 51.338 | 1.8381 | 10.301 |
| #2 | 53.988 | 10.491 | .44233 | 917.97 | .50501 | 2.0166 | 24.178 | 51.741 | 1.8328 | 10.471 |
| Check ? | Chk Fail | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | 50.000 | 2.0000 | | 200.00 | | | | | | 5.0000 |
| Low Limit | -.02000 | -1.0000 | | -.20000 | | | | | | -.01000 |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97142** | **.99076** | **1.5767** | **1.9957** | **.53890** | **5.6011** | **.48952** |
| Stddev | .00211 | .00120 | .0099 | .0098 | .00154 | .0013 | .00132 |
| %RSD | .21765 | .12152 | .62722 | .49161 | .28490 | .02345 | .26995 |
| #1 | .97291 | .99161 | 1.5837 | 1.9888 | .53782 | 5.6002 | .48858 |
| #2 | .96992 | .98991 | 1.5697 | 2.0027 | .53999 | 5.6021 | .49045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6864.7** | **68431.** | **7688.2** |
| Stddev | 2.7 | 182. | 109.1 |
| %RSD | .03978 | .26609 | 1.4190 |
| #1 | 6862.7 | 68560. | 7611.1 |
| #2 | 6866.6 | 68302. | 7765.3 |

Sample Name: 280-42515-c-2-c msd  Acquired: 5/23/2013 22:17:22  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175547 200.7 Zn

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05027** | **1.8797** | **.98627** | **3.9280** | **1.8348** | **.04316** | F **1.9347** | W **605.18** | **.09682** | W **1.1345** |
| Stddev | .00040 | .0035 | .00098 | .0081 | .0063 | .00023 | .0024 | 12.28 | .00008 | .0042 |
| %RSD | .80556 | .18704 | .09952 | .20746 | .34335 | .52245 | .12491 | 2.0298 | .08421 | .36800 |
| #1 | .04998 | 1.8822 | .98696 | 3.9337 | 1.8304 | .04300 | 1.9364 | 613.86 | .09688 | 1.1375 |
| #2 | .05055 | 1.8772 | .98558 | 3.9222 | 1.8393 | .04332 | 1.9330 | 596.49 | .09677 | 1.1316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Warn |
| High Limit | | | | | | | .10000 | 500.00 | | 1.0000 |
| Low Limit | | | | | | | -.10000 | -.05000 | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.2071** | **.63619** | **388.24** | **57.359** | **1.1266** | **220.60** | W **10.529** | **1.0052** | W **1447.0** | F **53.540** |
| Stddev | .0174 | .00132 | .63 | .237 | .0036 | 1.62 | .003 | .0031 | 3.4 | .977 |
| %RSD | .18855 | .20747 | .16207 | .41235 | .31685 | .73452 | .03156 | .31196 | .23209 | 1.8255 |
| #1 | 9.2194 | .63525 | 387.79 | 57.192 | 1.1241 | 221.75 | 10.527 | 1.0074 | 1444.6 | 52.849 |
| #2 | 9.1948 | .63712 | 388.68 | 57.526 | 1.1291 | 219.46 | 10.532 | 1.0030 | 1449.4 | 54.231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Fail |
| High Limit | | | | | | | 10.000 | | 500.00 | 50.000 |
| Low Limit | | | | | | | -.01000 | | 11.000 | -.02000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.177** | **.42934** | F **893.75** | **.48553** | **1.9571** | **23.318** | **49.901** | **1.7767** | W **10.002** | **.94670** |
| Stddev | .026 | .00245 | 3.68 | .00215 | .0039 | .017 | .037 | .0016 | .114 | .00292 |
| %RSD | .25276 | .56968 | .41182 | .44229 | .19919 | .07323 | .07323 | .09135 | 1.1395 | .30886 |
| #1 | 10.195 | .43106 | 896.36 | .48402 | 1.9598 | 23.330 | 49.926 | 1.7779 | 9.9213 | .94464 |
| #2 | 10.159 | .42761 | 891.15 | .48705 | 1.9543 | 23.306 | 49.875 | 1.7756 | 10.083 | .94877 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | 5.0000 | |
| Low Limit | -1.0000 | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96412** | **1.5281** | **1.9094** | **.52445** | **5.4901** | **.47097** |
| Stddev | .00042 | .0061 | .0100 | .00013 | .0037 | .00191 |
| %RSD | .04326 | .40078 | .52434 | .02470 | .06730 | .40653 |
| #1 | .96382 | 1.5324 | 1.9023 | .52436 | 5.4875 | .46962 |
| #2 | .96441 | 1.5238 | 1.9164 | .52454 | 5.4927 | .47232 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6804.6** | **67715.** | **7543.1** |
| Stddev | 29.0 | 457. | 116.3 |
| %RSD | .42566 | .67546 | 1.5412 |
| #1 | 6825.1 | 67392. | 7460.9 |
| #2 | 6784.1 | 68039. | 7625.3 |

Sample Name: 280-42544-c-1-a  Acquired: 5/23/2013 22:20:39  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175547 200.7 Zn

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **.23641** | **.00177** | **.02945** | **.04144** | **.00005** | **-.00092** | **25.186** | **.00023** | **.00022** |
| Stddev | .00021 | .00093 | .00184 | .00112 | .00009 | .00007 | .00187 | .011 | .00006 | .00025 |
| %RSD | 22.756 | .39364 | 103.67 | 3.8204 | .20667 | 153.31 | 204.16 | .04174 | 27.765 | 115.66 |
| #1 | -.00076 | .23707 | .00307 | .03024 | .04150 | .00000 | .00041 | 25.178 | .00018 | .00039 |
| #2 | -.00105 | .23576 | .00047 | .02865 | .04138 | .00010 | -.00224 | 25.193 | .00027 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.00102** | **.32307** | **1.8135** | **.00539** | **5.0917** | **.02523** | **.00115** | **10.447** | **.00709** |
| Stddev | .00013 | .00018 | .00141 | .0465 | .00125 | .0095 | .00021 | .00008 | .028 | .00044 |
| %RSD | 8.7200 | 18.092 | .43751 | 2.5642 | 23.175 | .18697 | .83203 | 6.6929 | .27019 | 6.2251 |
| #1 | .00157 | .00089 | .32207 | 1.7807 | .00450 | 5.0850 | .02508 | .00121 | 10.427 | .00740 |
| #2 | .00139 | .00115 | .32407 | 1.8464 | .00627 | 5.0985 | .02537 | .00110 | 10.467 | .00678 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22081** | **-.00037** | **12.172** | **-.00058** | **.00207** | **5.6855** | **12.167** | **.00016** | **.24254** | **-.00058** |
| Stddev | .00179 | .00061 | .028 | .00006 | .00120 | .0260 | .056 | .00007 | .00038 | .00155 |
| %RSD | .81202 | 166.06 | .23131 | 10.138 | 58.088 | .45733 | .45733 | 46.406 | .15754 | 268.47 |
| #1 | .22208 | .00006 | 12.192 | -.00054 | .00293 | 5.7039 | 12.206 | .00011 | .24227 | .00052 |
| #2 | .21955 | -.00080 | 12.152 | -.00062 | .00122 | 5.6671 | 12.128 | .00021 | .24281 | -.00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00859** | **.00101** | **.02194** | **.00057** | **.00492** | **-.00055** |
| Stddev | .00348 | .00004 | .00586 | .00040 | .00019 | .00060 |
| %RSD | 40.506 | 3.6626 | 26.704 | 70.914 | 3.8873 | 108.37 |
| #1 | .00613 | .00099 | .02609 | .00028 | .00478 | -.00097 |
| #2 | .01105 | .00104 | .01780 | .00085 | .00505 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8059.8** | **82966.** | **7943.4** |
| Stddev | 1.8 | 459. | 69.6 |
| %RSD | .02287 | .55351 | .87682 |
| #1 | 8061.1 | 83290. | 7894.2 |
| #2 | 8058.5 | 82641. | 7992.7 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 22:22:56 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00122** | **48.886** | **.00107** | **.01693** | **-.00014** | **.00015** | **1.0171** | **.04862** | **.00028** | **.00041** | **.00082** | **.00055** | **50.028** |
| Stddev | .00039 | .019 | .00226 | .00046 | .00019 | .00005 | .0003 | .00337 | .00015 | .00012 | .00024 | .00027 | .263 |
| %RSD | 31.561 | .03801 | 210.28 | 2.7306 | 140.25 | 31.618 | .02545 | 6.9323 | 53.599 | 30.068 | 29.471 | 49.036 | .52497 |
| #1 | -.00095 | 48.872 | .00267 | .01726 | .00000 | .00018 | 1.0169 | .04624 | .00038 | .00032 | .00100 | .00036 | 49.842 |
| #2 | -.00150 | 48.899 | -.00052 | .01661 | -.00027 | .00011 | 1.0173 | .05100 | .00017 | .00049 | .00065 | .00074 | 50.213 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42311** | **.00485** | **.05408** | **.00090** | **-.00040** | **253.39** | **.00418** | **.00546** | **-.00144** | **5.0126** | **.00019** | **.00737** | **.02406** |
| Stddev | .05811 | .00233 | .00246 | .00011 | .00023 | .07 | .00056 | .00147 | .00153 | .0077 | .00052 | .00182 | .02475 |
| %RSD | 13.733 | 47.942 | 4.5496 | 11.903 | 55.939 | .02827 | 13.321 | 26.846 | 106.87 | .15415 | 281.07 | 24.667 | 102.88 |
| #1 | .38203 | .00649 | .05234 | .00097 | -.00024 | 253.34 | .00458 | .00442 | -.00035 | 5.0180 | -.00018 | .00609 | .04156 |
| #2 | .46420 | .00321 | .05582 | .00082 | -.00056 | 253.44 | .00379 | .00650 | -.00252 | 5.0071 | .00055 | .00866 | .00656 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05149** | **.00038** | **.00121** | **4.8980** | **.00126** | **.00159** | **10.478** | **.00045** | **.00193** | **.00341** |
| Stddev | .05297 | .00137 | .00015 | .0122 | .00038 | .00076 | .012 | .00004 | .00004 | .00014 |
| %RSD | 102.88 | 360.91 | 12.773 | .24874 | 29.861 | 47.837 | .11116 | 8.6177 | 2.2379 | 4.2069 |
| #1 | .08894 | -.00059 | .00132 | 4.8894 | .00100 | .00213 | 10.470 | .00048 | .00196 | .00351 |
| #2 | .01403 | .00135 | .00110 | 4.9066 | .00153 | .00105 | 10.487 | .00042 | .00190 | .00331 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7756.4** | **77707.** | **7771.8** |
| Stddev | 14.6 | 443. | 74.2 |
| %RSD | .18833 | .57041 | .95488 |
| #1 | 7746.1 | 78020. | 7824.3 |
| #2 | 7766.7 | 77393. | 7719.4 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 22:25:11 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50710** | **.52011** | **.99467** | **.51716** | **.49588** | **.47851** | **-.00043** | **5.0005** | **.49373** | **.50492** | **.51158** | **.50337** | **2.4567** |
| Stddev | .00120 | .00054 | .00043 | .00156 | .00029 | .00144 | .00219 | .0066 | .00032 | .00006 | .00027 | .00022 | .0040 |
| %RSD | .23758 | .10367 | .04345 | .30108 | .05893 | .30149 | 507.98 | .13247 | .06395 | .01091 | .05256 | .04390 | .16122 |
| #1 | .50625 | .51973 | .99436 | .51606 | .49567 | .47749 | -.00198 | 4.9958 | .49351 | .50488 | .51139 | .50352 | 2.4539 |
| #2 | .50795 | .52049 | .99497 | .51826 | .49608 | .47953 | .00112 | 5.0052 | .49396 | .50496 | .51177 | .50321 | 2.4595 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.517** | **.96405** | **19.944** | **.49627** | **.50653** | **5.3480** | **.51819** | **.99558** | **1.0020** | **.14004** | **.99302** | **.99831** | **5.1628** |
| Stddev | .062 | .00316 | .044 | .00060 | .00118 | .0023 | .00058 | .00275 | .0037 | .00366 | .00399 | .00148 | .0291 |
| %RSD | .12587 | .32807 | .22193 | .11999 | .23347 | .04379 | .11202 | .27645 | .37074 | 2.6100 | .40149 | .14839 | .56445 |
| #1 | 49.473 | .96182 | 19.913 | .49585 | .50569 | 5.3463 | .51778 | .99364 | 1.0046 | .14263 | .99020 | .99936 | 5.1834 |
| #2 | 49.561 | .96629 | 19.975 | .49669 | .50737 | 5.3496 | .51860 | .99753 | .99935 | .13746 | .99584 | .99726 | 5.1422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.048** | **1.0100** | **.49629** | **.00190** | **.50139** | **1.0167** | **.01589** | **.48450** | **.50657** | **.49876** |
| Stddev | .062 | .0029 | .00057 | .00030 | .00026 | .0041 | .02262 | .00078 | .00206 | .00076 |
| %RSD | .56445 | .28733 | .11483 | 16.033 | .05203 | .39972 | 142.38 | .16191 | .40716 | .15264 |
| #1 | 11.092 | 1.0080 | .49589 | .00168 | .50120 | 1.0138 | -.00011 | .48394 | .50511 | .49930 |
| #2 | 11.004 | 1.0121 | .49669 | .00211 | .50157 | 1.0195 | .03188 | .48505 | .50803 | .49822 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7897.4** | **80058.** | **7794.6** |
| Stddev | 5.6 | 293. | 38.8 |
| %RSD | .07096 | .36620 | .49801 |
| #1 | 7893.5 | 80265. | 7822.1 |
| #2 | 7901.4 | 79850. | 7767.2 |

Sample Name: CCB  Acquired: 5/23/2013 22:27:18  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **.00147** | **-.00182** | F **.01170** | **-.00029** | **.00001** | **-.00031** | **.03130** | **.00008** | **.00041** | **.00057** | **-.00003** |
| Stddev | .00003 | .00027 | .00028 | .00087 | .00004 | .00001 | .00028 | .00288 | .00001 | .00016 | .00009 | .00021 |
| %RSD | 6.6415 | 18.054 | 15.432 | 7.4541 | 14.643 | 136.35 | 90.932 | 9.1999 | 7.7939 | 38.221 | 15.274 | 800.19 |
| #1 | -.00043 | .00166 | -.00162 | .01232 | -.00032 | .00000 | -.00050 | .03333 | .00008 | .00030 | .00063 | .00012 |
| #2 | -.00039 | .00128 | -.00202 | .01109 | -.00026 | .00002 | -.00011 | .02926 | .00009 | .00053 | .00051 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01927** | F **.34438** | W **.00295** | W **.01380** | F **.00051** | **.00051** | F **.38266** | W **.00212** | **.00165** | **.00004** | **.12274** | **.00236** |
| Stddev | .00042 | .05201 | .00328 | .00212 | .00001 | .00009 | .00477 | .00012 | .00049 | .00086 | .00404 | .00203 |
| %RSD | 2.1821 | 15.104 | 111.27 | 15.348 | 1.2498 | 16.802 | 1.2463 | 5.7996 | 29.630 | 2370.5 | 3.2942 | 86.008 |
| #1 | .01957 | .30760 | .00527 | .01230 | .00051 | .00045 | .38604 | .00203 | .00130 | .00065 | .12560 | .00092 |
| #2 | .01898 | .38116 | .00063 | .01529 | .00051 | .00057 | .37929 | .00220 | .00200 | -.00057 | .11988 | .00379 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .25000 | .00261 | .01070 | .00050 | | .18320 | .00129 | | | | |
| Low Limit | | -.25000 | -.00261 | -.01070 | -.00050 | | -.18320 | -.00129 | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00254** | **.01594** | **.03410** | **-.00003** | F **.00053** | **.00295** | **-.00052** | **-.00047** | **-.03918** | **.00025** | **.00254** | **-.00011** |
| Stddev | .00140 | .00469 | .01004 | .00049 | .00005 | .00122 | .00020 | .00061 | .01075 | .00067 | .00007 | .00128 |
| %RSD | 55.048 | 29.428 | 29.428 | 1460.6 | 9.5879 | 41.468 | 39.267 | 129.31 | 27.424 | 270.19 | 2.7561 | 1120.9 |
| #1 | .00353 | .01925 | .04120 | -.00038 | .00056 | .00382 | -.00066 | -.00004 | -.04678 | .00072 | .00258 | -.00102 |
| #2 | .00155 | .01262 | .02701 | .00031 | .00049 | .00209 | -.00038 | -.00090 | -.03158 | -.00022 | .00249 | .00079 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00050 | | | | | | | |
| Low Limit | | | | | -.00050 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7858.3** | **80804.** | **7671.7** |
| Stddev | 30.6 | 107. | 30.4 |
| %RSD | .38899 | .13186 | .39637 |
| #1 | 7836.6 | 80729. | 7650.2 |
| #2 | 7879.9 | 80879. | 7693.2 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 22:29:31 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00952** | **.11040** | **.01384** | **.11420** | **.01039** | **.00100** | **.11485** | **.23235** | **.00522** | **.01090** | **.01105** | **.01555** | **.11484** |
| Stddev | .00054 | .00017 | .00075 | .00035 | .00036 | .00012 | .00015 | .00175 | .00002 | .00020 | .00001 | .00006 | .00178 |
| %RSD | 5.7045 | .15445 | 5.3948 | .30709 | 3.4711 | 11.532 | .13028 | .75117 | .47697 | 1.7911 | .06185 | .36945 | 1.5482 |
| #1 | .00991 | .11028 | .01331 | .11395 | .01014 | .00092 | .11475 | .23359 | .00524 | .01103 | .01105 | .01559 | .11610 |
| #2 | .00914 | .11052 | .01437 | .11445 | .01065 | .00108 | .11496 | .23112 | .00520 | .01076 | .01106 | .01550 | .11358 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3838** | **.01102** | **.22336** | **.01083** | **.02104** | F **1.3193** | **.04522** | **2.9547** | **.00938** | **.10301** | F **.01388** | **.01869** | **.54017** |
| Stddev | .0304 | .00225 | .00275 | .00001 | .00003 | .0041 | .00066 | .0030 | .00005 | .00195 | .00108 | .00387 | .00123 |
| %RSD | .89904 | 20.408 | 1.2319 | .05988 | .14949 | .30985 | 1.4670 | .10211 | .55771 | 1.8903 | 7.7451 | 20.689 | .22679 |
| #1 | 3.4053 | .01261 | .22531 | .01084 | .02102 | 1.3164 | .04569 | 2.9525 | .00942 | .10439 | .01464 | .02143 | .53930 |
| #2 | 3.3623 | .00943 | .22141 | .01083 | .02107 | 1.3222 | .04475 | 2.9568 | .00934 | .10164 | .01312 | .01596 | .54103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | .01000 | | |
| Range | | | | | | 30.000% | | | | | 30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1560** | **.10454** | **.01068** | **.01451** | **.01011** | **.01653** | F **.10557** | **.00996** | **.02343** | **.01223** |
| Stddev | .0026 | .00029 | .00015 | .00049 | .00019 | .00050 | .00819 | .00019 | .00036 | .00008 |
| %RSD | .22679 | .28198 | 1.4180 | 3.3544 | 1.9050 | 3.0191 | 7.7609 | 1.9412 | 1.5375 | .69503 |
| #1 | 1.1541 | .10433 | .01079 | .01417 | .01024 | .01688 | .09978 | .00983 | .02368 | .01217 |
| #2 | 1.1578 | .10475 | .01057 | .01485 | .00997 | .01618 | .11136 | .01010 | .02317 | .01229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7884.7** | **81359.** | **7703.2** |
| Stddev | 5.6 | 149. | 14.5 |
| %RSD | .07107 | .18347 | .18877 |
| #1 | 7880.8 | 81253. | 7713.5 |
| #2 | 7888.7 | 81464. | 7692.9 |

Sample Name: mb 280-175548/1-a  Acquired: 5/23/2013 22:31:47  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.00194** | **-.00084** | **.00880** | **.00009** | **.00006** | **-.00106** | **.00869** | **.00020** | **.00001** |
| Stddev | .00023 | .00007 | .00088 | .00008 | .00007 | .00005 | .00173 | .00279 | .00022 | .00000 |
| %RSD | 44.737 | 3.4168 | 104.87 | .87185 | 82.857 | 85.247 | 162.71 | 32.103 | 110.19 | 54.643 |
| #1 | -.00035 | .00198 | -.00145 | .00886 | .00004 | .00010 | -.00228 | .00672 | .00035 | .00001 |
| #2 | -.00067 | .00189 | -.00022 | .00875 | .00014 | .00002 | .00016 | .01066 | .00004 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00035** | **.02701** | **.22073** | **.00027** | **.00266** | **.00038** | **.00018** | **.18069** | **.00020** |
| Stddev | .00002 | .00002 | .00015 | .00066 | .00370 | .00023 | .00003 | .00019 | .01863 | .00058 |
| %RSD | 21.630 | 5.6307 | .56759 | .30000 | 1349.2 | 8.8144 | 8.5912 | 104.52 | 10.310 | 291.18 |
| #1 | .00009 | .00033 | .02712 | .22026 | .00289 | .00249 | .00036 | .00005 | .16752 | .00061 |
| #2 | .00013 | .00036 | .02690 | .22120 | -.00234 | .00282 | .00040 | .00031 | .19387 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21219** | **-.00089** | W **.06438** | **.00002** | **.00677** | **.04548** | **.09733** | **-.00001** | **-.00003** | **-.00127** |
| Stddev | .00188 | .00018 | .00096 | .00138 | .00034 | .00117 | .00250 | .00031 | .00014 | .00023 |
| %RSD | .88792 | 20.650 | 1.4934 | 8787.1 | 4.9482 | 2.5729 | 2.5729 | 3262.7 | 422.00 | 17.835 |
| #1 | .21353 | -.00076 | .06506 | .00099 | .00654 | .04631 | .09910 | -.00023 | -.00014 | -.00111 |
| #2 | .21086 | -.00102 | .06370 | -.00096 | .00701 | .04465 | .09556 | .00021 | .00007 | -.00144 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | | | | | |
| Low Limit | | | -.05000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.00054** | **.03226** | **-.00022** | **.00275** | **-.00098** |
| Stddev | .00039 | .00064 | .03388 | .00032 | .00047 | .00065 |
| %RSD | 126.33 | 117.49 | 105.03 | 149.93 | 17.180 | 66.620 |
| #1 | -.00059 | .00100 | .05621 | -.00044 | .00242 | -.00144 |
| #2 | -.00003 | .00009 | .00830 | .00001 | .00308 | -.00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7911.1** | **81772.** | **7793.9** |
| Stddev | 12.7 | 377. | 4.5 |
| %RSD | .16012 | .46103 | .05788 |
| #1 | 7920.1 | 82039. | 7790.7 |
| #2 | 7902.2 | 81506. | 7797.1 |

Sample Name: lcs 280-175548/2-a  Acquired: 5/23/2013 22:34:01  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .04954 | 1.9352 | .98683 | 1.0214 | 1.9737 | .04774 | 2.1202 | 48.816 | .09867 | .48595 |
| Stddev | .00028 | .0027 | .00150 | .0008 | .0023 | .00003 | .0037 | .064 | .00024 | .00030 |
| %RSD | .56369 | .14199 | .15219 | .08074 | .11861 | .06394 | .17647 | .13178 | .23838 | .06083 |
| #1 | .04974 | 1.9371 | .98789 | 1.0208 | 1.9754 | .04777 | 2.1228 | 48.861 | .09883 | .48575 |
| #2 | .04935 | 1.9332 | .98577 | 1.0220 | 1.9721 | .04772 | 2.1175 | 48.770 | .09850 | .48616 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .20122 | .24530 | .95794 | 49.104 | .94504 | 48.635 | .48471 | 1.0366 | 51.158 | .49494 |
| Stddev | .00007 | .00062 | .00347 | .165 | .00490 | .081 | .00006 | .0016 | .131 | .00011 |
| %RSD | .03413 | .25274 | .36257 | .33651 | .51821 | .16722 | .01181 | .15575 | .25583 | .02221 |
| #1 | .20117 | .24573 | .96040 | 49.221 | .94850 | 48.578 | .48467 | 1.0354 | 51.251 | .49486 |
| #2 | .20127 | .24486 | .95549 | 48.988 | .94157 | 48.693 | .48476 | 1.0377 | 51.066 | .49502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.158 | .48554 | .05544 | .52699 | 1.9780 | 10.786 | 23.083 | 2.0340 | .98424 | .98723 |
| Stddev | .001 | .00037 | .00027 | .00162 | .0036 | .004 | .008 | .0049 | .00146 | .00069 |
| %RSD | .00777 | .07563 | .48155 | .30768 | .18211 | .03507 | .03507 | .24093 | .14877 | .07019 |
| #1 | 10.158 | .48580 | .05563 | .52584 | 1.9805 | 10.784 | 23.077 | 2.0375 | .98528 | .98674 |
| #2 | 10.159 | .48528 | .05525 | .52813 | 1.9754 | 10.789 | 23.089 | 2.0306 | .98321 | .98772 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0319 | 1.9290 | 2.1514 | .48418 | .49676 | .51261 |
| Stddev | .0003 | .0045 | .0400 | .00177 | .00088 | .00020 |
| %RSD | .03101 | .23380 | 1.8607 | .36560 | .17695 | .03900 |
| #1 | 1.0321 | 1.9322 | 2.1231 | .48293 | .49738 | .51247 |
| #2 | 1.0316 | 1.9258 | 2.1797 | .48544 | .49614 | .51275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 7626.9 | 77105. | 7646.5 |
| Stddev | 3.0 | 140. | 4.0 |
| %RSD | .03977 | .18164 | .05296 |
| #1 | 7629.0 | 77006. | 7643.6 |
| #2 | 7624.7 | 77204. | 7649.3 |

Sample Name: 280-42510-c-1-a  Acquired: 5/23/2013 22:36:07  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **.22478** | **.00172** | **.25869** | **.11578** | **.00007** | **-.00111** | **48.591** | **.00078** | **.00309** |
| Stddev | .00017 | .00093 | .00007 | .00005 | .00007 | .00002 | .00135 | .008 | .00007 | .00006 |
| %RSD | 15.340 | .41309 | 3.9491 | .01866 | .06354 | 33.413 | 121.20 | .01665 | 9.3834 | 2.0809 |
| #1 | -.00096 | .22544 | .00177 | .25872 | .11584 | .00005 | -.00016 | 48.597 | .00083 | .00304 |
| #2 | -.00119 | .22412 | .00167 | .25866 | .11573 | .00009 | -.00207 | 48.585 | .00073 | .00313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.01658** | **30.511** | **11.789** | **.03288** | **4.5261** | **.75764** | **.00536** | **65.599** | **.05388** |
| Stddev | .00005 | .00013 | .105 | .017 | .00040 | .0124 | .00172 | .00032 | .049 | .00007 |
| %RSD | 5.6796 | .78096 | .34466 | .14493 | 1.2036 | .27318 | .22751 | 5.9246 | .07427 | .12643 |
| #1 | .00079 | .01668 | 30.585 | 11.777 | .03316 | 4.5174 | .75642 | .00513 | 65.634 | .05383 |
| #2 | .00085 | .01649 | 30.437 | 11.801 | .03260 | 4.5349 | .75886 | .00558 | 65.565 | .05393 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2952** | **.00330** | **2.9157** | **-.00043** | **.00099** | **6.5238** | **13.961** | **.00059** | **.14862** | **.00295** |
| Stddev | .0025 | .00015 | .0010 | .00036 | .00235 | .0702 | .150 | .00050 | .00040 | .00104 |
| %RSD | .19107 | 4.5227 | .03496 | 85.153 | 237.65 | 1.0753 | 1.0753 | 84.978 | .26727 | 35.163 |
| #1 | 1.2969 | .00320 | 2.9165 | -.00017 | .00265 | 6.4742 | 13.855 | .00094 | .14890 | .00369 |
| #2 | 1.2934 | .00341 | 2.9150 | -.00068 | -.00067 | 6.5734 | 14.067 | .00023 | .14834 | .00222 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00472** | **.00082** | **-.01733** | **.00473** | **.14630** | **.00278** |
| Stddev | .00042 | .00078 | .00613 | .00000 | .00035 | .00035 |
| %RSD | 8.8166 | 95.660 | 35.350 | .03202 | .24147 | 12.747 |
| #1 | .00501 | .00026 | -.01300 | .00474 | .14605 | .00303 |
| #2 | .00443 | .00137 | -.02166 | .00473 | .14655 | .00253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7993.7** | **81419.** | **8005.1** |
| Stddev | 14.8 | 37. | 27.9 |
| %RSD | .18568 | .04595 | .34823 |
| #1 | 7983.2 | 81446. | 7985.4 |
| #2 | 8004.2 | 81393. | 8024.8 |

Sample Name: 280-42510-c-1-aSD@5 Acquired: 5/23/2013 22:38:19 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175548 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00102** | **.06342** | **-.00013** | **.07366** | **.03078** | **.00006** | **-.00233** | **12.822** | **.00026** | **.00105** |
| Stddev | .00049 | .00015 | .00130 | .00055 | .00018 | .00004 | .00068 | .009 | .00002 | .00009 |
| %RSD | 47.711 | .23798 | 1027.0 | .75024 | .57319 | 64.209 | 29.011 | .06728 | 9.2911 | 8.5297 |
| #1 | -.00137 | .06331 | -.00104 | .07405 | .03090 | .00003 | -.00281 | 12.816 | .00027 | .00098 |
| #2 | -.00068 | .06353 | .00079 | .07327 | .03065 | .00008 | -.00185 | 12.828 | .00024 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00412** | **8.0895** | **3.2732** | **.01175** | **1.2167** | **.19940** | **.00135** | **16.836** | **.01469** |
| Stddev | .00010 | .00009 | .0095 | .0635 | .00219 | .0027 | .00060 | .00020 | .208 | .00017 |
| %RSD | 39.485 | 2.1546 | .11781 | 1.9408 | 18.637 | .22195 | .29952 | 14.622 | 1.2361 | 1.1459 |
| #1 | .00019 | .00418 | 8.0828 | 3.2283 | .01020 | 1.2148 | .19898 | .00149 | 16.688 | .01457 |
| #2 | .00034 | .00406 | 8.0962 | 3.3182 | .01330 | 1.2186 | .19983 | .00121 | 16.983 | .01480 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33188** | **.00049** | **.77908** | **.00010** | **.00564** | **1.7385** | **3.7204** | **-.00027** | **.03960** | **.00171** |
| Stddev | .00159 | .00084 | .00083 | .00195 | .00081 | .0208 | .0445 | .00025 | .00011 | .00001 |
| %RSD | .47819 | 172.58 | .10624 | 1950.1 | 14.279 | 1.1950 | 1.1950 | 91.678 | .27887 | .30841 |
| #1 | .33300 | .00108 | .77849 | -.00128 | .00621 | 1.7532 | 3.7519 | -.00009 | .03952 | .00172 |
| #2 | .33075 | -.00011 | .77966 | .00148 | .00507 | 1.7238 | 3.6890 | -.00044 | .03968 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00150** | **.00023** | **.01804** | **.00138** | **.04139** | **.00069** |
| Stddev | .00017 | .00069 | .00167 | .00003 | .00014 | .00009 |
| %RSD | 11.211 | 300.58 | 9.2819 | 2.2289 | .34309 | 12.508 |
| #1 | .00138 | -.00026 | .01685 | .00135 | .04129 | .00075 |
| #2 | .00162 | .00072 | .01922 | .00140 | .04149 | .00063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7999.1** | **82682.** | **7942.0** |
| Stddev | 7.9 | 636. | 44.3 |
| %RSD | .09817 | .76954 | .55725 |
| #1 | 8004.6 | 83132. | 7973.3 |
| #2 | 7993.5 | 82232. | 7910.7 |

Sample Name: 280-42510-c-1-b ms  Acquired: 5/23/2013 22:40:38  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04085** | **1.8349** | **.80334** | **1.0637** | **1.6764** | **.03833** | F **1.7217** | **87.641** | **.08049** | **.39045** |
| Stddev | .00001 | .0013 | .00887 | .0022 | .0079 | .00006 | .0004 | .361 | .00027 | .00021 |
| %RSD | .02753 | .06833 | 1.1035 | .21058 | .47303 | .15691 | .02516 | .41224 | .33704 | .05306 |
| #1 | .04084 | 1.8357 | .79707 | 1.0621 | 1.6820 | .03838 | 1.7220 | 87.897 | .08069 | .39060 |
| #2 | .04086 | 1.8340 | .80961 | 1.0653 | 1.6707 | .03829 | 1.7214 | 87.386 | .08030 | .39030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16041** | **.21880** | **31.268** | **50.827** | **.77675** | **43.060** | **1.1451** | **.82287** | **106.27** | **.44811** |
| Stddev | .00008 | .00077 | .109 | .098 | .00119 | .017 | .0012 | .00013 | 1.08 | .00047 |
| %RSD | .05094 | .35339 | .34967 | .19229 | .15310 | .04008 | .10219 | .01549 | 1.0122 | .10445 |
| #1 | .16047 | .21826 | 31.345 | 50.896 | .77759 | 43.048 | 1.1443 | .82296 | 107.03 | .44844 |
| #2 | .16035 | .21935 | 31.191 | 50.758 | .77591 | 43.072 | 1.1459 | .82278 | 105.51 | .44778 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.5104** | **.38789** | **2.9466** | **.42166** | **1.6244** | **15.213** | **32.556** | **1.5947** | **.93042** | **.79081** |
| Stddev | .0079 | .00087 | .0020 | .00261 | .0070 | .070 | .149 | .0046 | .00425 | .00177 |
| %RSD | .08330 | .22542 | .06678 | .61858 | .42992 | .45861 | .45861 | .28955 | .45628 | .22372 |
| #1 | 9.5048 | .38728 | 2.9480 | .42351 | 1.6194 | 15.262 | 32.662 | 1.5979 | .93342 | .78956 |
| #2 | 9.5160 | .38851 | 2.9452 | .41982 | 1.6293 | 15.164 | 32.451 | 1.5914 | .92741 | .79206 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.82333** | **1.5184** | **1.7513** | **.39395** | **.53535** | **.40592** |
| Stddev | .00009 | .0009 | .0025 | .00075 | .00060 | .00325 |
| %RSD | .01124 | .05827 | .14408 | .19130 | .11263 | .79976 |
| #1 | .82326 | 1.5178 | 1.7495 | .39449 | .53578 | .40822 |
| #2 | .82339 | 1.5191 | 1.7531 | .39342 | .53493 | .40363 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7834.3** | **79452.** | **7943.6** |
| Stddev | 1.4 | 88. | 45.2 |
| %RSD | .01740 | .11085 | .56848 |
| #1 | 7835.3 | 79515. | 7911.7 |
| #2 | 7833.3 | 79390. | 7975.6 |

Sample Name: 280-42510-c-1-c msd  Acquired: 5/23/2013 22:42:44  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04119** | **1.8760** | **.81999** | **1.0929** | **1.7070** | **.03874** | F **1.7525** | **89.303** | **.08244** | **.39856** |
| Stddev | .00069 | .0006 | .00337 | .0026 | .0033 | .00013 | .0047 | .328 | .00028 | .00020 |
| %RSD | 1.6768 | .03185 | .41153 | .23640 | .19193 | .32485 | .27036 | .36780 | .34509 | .04917 |
| #1 | .04070 | 1.8755 | .82237 | 1.0947 | 1.7093 | .03883 | 1.7491 | 89.535 | .08224 | .39869 |
| #2 | .04167 | 1.8764 | .81760 | 1.0910 | 1.7047 | .03866 | 1.7558 | 89.071 | .08264 | .39842 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16364** | **.22351** | **31.883** | **51.678** | **.79492** | **44.018** | **1.1734** | **.84350** | **108.16** | **.45692** |
| Stddev | .00048 | .00158 | .186 | .075 | .00062 | .065 | .0018 | .00117 | .32 | .00054 |
| %RSD | .29237 | .70575 | .58240 | .14487 | .07739 | .14777 | .15661 | .13854 | .29182 | .11922 |
| #1 | .16398 | .22239 | 32.014 | 51.731 | .79536 | 43.972 | 1.1721 | .84433 | 107.93 | .45730 |
| #2 | .16331 | .22462 | 31.752 | 51.625 | .79449 | 44.064 | 1.1746 | .84268 | 108.38 | .45653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.7256** | **.39376** | **3.0343** | **.43502** | **1.6568** | **15.530** | **33.233** | **1.6333** | **.94533** | **.80801** |
| Stddev | .0032 | .00095 | .0053 | .00093 | .0054 | .019 | .040 | .0010 | .00331 | .00153 |
| %RSD | .03254 | .24012 | .17290 | .21409 | .32772 | .12064 | .12064 | .06173 | .35028 | .18947 |
| #1 | 9.7233 | .39443 | 3.0380 | .43436 | 1.6606 | 15.543 | 33.262 | 1.6340 | .94767 | .80693 |
| #2 | 9.7278 | .39309 | 3.0306 | .43568 | 1.6529 | 15.516 | 33.205 | 1.6326 | .94299 | .80909 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.84615** | **1.5492** | **1.7705** | **.40106** | **.54774** | **.41525** |
| Stddev | .00220 | .0040 | .0393 | .00114 | .00023 | .00057 |
| %RSD | .25991 | .25573 | 2.2177 | .28415 | .04176 | .13658 |
| #1 | .84459 | 1.5520 | 1.7428 | .40025 | .54758 | .41565 |
| #2 | .84770 | 1.5464 | 1.7983 | .40186 | .54790 | .41485 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7800.9** | **78785.** | **7987.2** |
| Stddev | 6.4 | 67. | 42.3 |
| %RSD | .08231 | .08443 | .52974 |
| #1 | 7805.5 | 78738. | 7957.3 |
| #2 | 7796.4 | 78832. | 8017.1 |

Sample Name: 280-42544-c-1-b  Acquired: 5/23/2013 22:44:50  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00092** | **.20897** | **.00066** | **.01912** | **.04147** | **.00009** | **-.00609** | **25.185** | **.00012** | **.00003** |
| Stddev | .00004 | .00173 | .00230 | .00008 | .00034 | .00007 | .00100 | .023 | .00004 | .00028 |
| %RSD | 4.4404 | .82708 | 349.39 | .43780 | .81548 | 81.918 | 16.475 | .09011 | 33.984 | 987.17 |
| #1 | -.00095 | .21019 | .00229 | .01906 | .04171 | .00014 | -.00538 | 25.201 | .00015 | .00022 |
| #2 | -.00089 | .20775 | -.00097 | .01918 | .04124 | .00004 | -.00680 | 25.169 | .00009 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00192** | **.32651** | **1.7786** | **.00400** | **5.0596** | **.02372** | **.00137** | **9.8859** | **.00052** |
| Stddev | .00014 | .00016 | .00346 | .0051 | .00026 | .0155 | .00004 | .00008 | .0223 | .00005 |
| %RSD | 26.807 | 8.2710 | 1.0593 | .28893 | 6.5268 | .30657 | .15274 | 6.1354 | .22546 | 8.9218 |
| #1 | .00041 | .00181 | .32896 | 1.7750 | .00418 | 5.0705 | .02375 | .00131 | 9.9017 | .00056 |
| #2 | .00060 | .00203 | .32407 | 1.7822 | .00381 | 5.0486 | .02369 | .00143 | 9.8702 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22275** | **-.00002** | **11.974** | **-.00014** | **.00213** | **5.6825** | **12.161** | **-.00029** | **.24208** | **.00153** |
| Stddev | .00073 | .00020 | .041 | .00068 | .00142 | .0085 | .018 | .00049 | .00071 | .00069 |
| %RSD | .32817 | 957.53 | .34591 | 470.72 | 66.381 | .15009 | .15009 | 169.94 | .29519 | 45.270 |
| #1 | .22327 | -.00016 | 12.004 | .00034 | .00314 | 5.6885 | 12.173 | .00006 | .24258 | .00201 |
| #2 | .22223 | .00012 | 11.945 | -.00063 | .00113 | 5.6765 | 12.148 | -.00064 | .24157 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00517** | **.00169** | **.00774** | **.00078** | **.00476** | **-.00030** |
| Stddev | .00036 | .00125 | .01825 | .00023 | .00013 | .00048 |
| %RSD | 6.9127 | 73.829 | 235.90 | 29.167 | 2.8327 | 161.59 |
| #1 | .00491 | .00081 | -.00517 | .00062 | .00486 | .00004 |
| #2 | .00542 | .00257 | .02064 | .00094 | .00466 | -.00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7926.9** | **81865.** | **7857.6** |
| Stddev | 10.7 | 125. | 69.5 |
| %RSD | .13556 | .15241 | .88494 |
| #1 | 7934.5 | 81777. | 7906.8 |
| #2 | 7919.3 | 81953. | 7808.4 |

Sample Name: 280-42545-c-1-b  Acquired: 5/23/2013 22:47:07  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **.07250** | **-.00199** | **.52021** | **.48825** | **-.00002** | **-.00353** | **3.5416** | **-.00013** | **-.00016** |
| Stddev | .00052 | .00163 | .00451 | .00171 | .00135 | .00009 | .00054 | .0015 | .00003 | .00004 |
| %RSD | 86.766 | 2.2547 | 226.75 | .32965 | .27668 | 373.62 | 15.416 | .04198 | 24.134 | 24.742 |
| #1 | -.00023 | .07366 | -.00518 | .51900 | .48729 | .00004 | -.00315 | 3.5405 | -.00011 | -.00019 |
| #2 | -.00096 | .07134 | .00120 | .52143 | .48920 | -.00009 | -.00392 | 3.5426 | -.00015 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00979** | **.00158** | **.62784** | **2.6410** | **.19153** | **.61543** | **.01051** | **.00111** | W **543.43** | **.00050** |
| Stddev | .00009 | .00004 | .00162 | .0849 | .00228 | .00382 | .00003 | .00021 | 2.09 | .00003 |
| %RSD | .95157 | 2.5904 | .25783 | 3.2161 | 1.1911 | .62137 | .26926 | 18.950 | .38375 | 6.6396 |
| #1 | .00972 | .00161 | .62899 | 2.5809 | .18992 | .61814 | .01053 | .00126 | 541.96 | .00052 |
| #2 | .00985 | .00155 | .62670 | 2.7011 | .19315 | .61273 | .01049 | .00096 | 544.91 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06773** | **.00021** | **.16733** | **-.00059** | **.00547** | **8.9384** | **19.128** | **-.00077** | **.56233** | **-.00311** |
| Stddev | .00112 | .00027 | .00001 | .00146 | .00175 | .0579 | .124 | .00013 | .00198 | .00069 |
| %RSD | 1.6493 | 127.08 | .00865 | 247.34 | 31.947 | .64803 | .64803 | 16.568 | .35140 | 22.177 |
| #1 | .06694 | .00002 | .16734 | -.00163 | .00424 | 8.8975 | 19.041 | -.00068 | .56093 | -.00263 |
| #2 | .06852 | .00040 | .16732 | .00044 | .00671 | 8.9794 | 19.216 | -.00086 | .56373 | -.00360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00119** | **.00068** | **.00177** | **-.00015** | **.00341** | **-.00091** |
| Stddev | .00007 | .00055 | .03310 | .00048 | .00044 | .00072 |
| %RSD | 6.1171 | 80.877 | 1865.4 | 323.84 | 12.908 | 79.291 |
| #1 | .00114 | .00107 | -.02163 | .00019 | .00373 | -.00040 |
| #2 | .00124 | .00029 | .02518 | -.00048 | .00310 | -.00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7421.4** | **73810.** | **7554.0** |
| Stddev | 5.0 | 218. | 2.1 |
| %RSD | .06721 | .29490 | .02786 |
| #1 | 7425.0 | 73656. | 7555.5 |
| #2 | 7417.9 | 73964. | 7552.5 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 22:49:29 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00080** | **48.847** | **.00108** | **.00869** | **.00031** | **.00005** | **1.0033** | **-.00397** | **.00013** | **.00042** | **.00001** | **.00066** | **49.985** |
| Stddev | .00039 | .272 | .00066 | .00033 | .00015 | .00008 | .0013 | .00451 | .00002 | .00002 | .00004 | .00034 | .357 |
| %RSD | 49.401 | .55599 | 61.402 | 3.8406 | 47.603 | 186.42 | .12777 | 113.54 | 12.736 | 4.8312 | 308.57 | 51.501 | .71372 |
| #1 | -.00107 | 48.655 | .00155 | .00845 | .00021 | -.00001 | 1.0043 | -.00716 | .00012 | .00044 | -.00002 | .00090 | 49.733 |
| #2 | -.00052 | 49.039 | .00061 | .00892 | .00041 | .00010 | 1.0024 | -.00078 | .00014 | .00041 | .00005 | .00042 | 50.238 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34895** | **.00622** | **.03715** | **.00008** | **-.00030** | **252.76** | **.00004** | **.00387** | **-.00259** | **4.8438** | **-.00175** | **.00609** | **.01160** |
| Stddev | .01601 | .00021 | .00020 | .00007 | .00000 | 1.73 | .00039 | .00024 | .00231 | .0116 | .00270 | .00331 | .01004 |
| %RSD | 4.5886 | 3.3763 | .53002 | 94.466 | 1.4445 | .68472 | 1034.8 | 6.1859 | 89.090 | .23923 | 154.43 | 54.352 | 86.502 |
| #1 | .36027 | .00637 | .03701 | .00013 | -.00030 | 251.54 | -.00024 | .00404 | -.00096 | 4.8356 | .00016 | .00375 | .01870 |
| #2 | .33763 | .00607 | .03729 | .00003 | -.00029 | 253.99 | .00031 | .00370 | -.00423 | 4.8519 | -.00366 | .00843 | .00451 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02483** | **.00021** | **.00025** | **4.8656** | **.00142** | **.00102** | **10.323** | **-.00035** | **.00132** | **-.00031** |
| Stddev | .02148 | .00020 | .00009 | .0071 | .00018 | .00057 | .032 | .00011 | .00017 | .00009 |
| %RSD | 86.502 | 95.669 | 36.676 | .14547 | 12.909 | 56.127 | .30598 | 32.499 | 12.603 | 28.000 |
| #1 | .04001 | .00036 | .00032 | 4.8606 | .00129 | .00142 | 10.301 | -.00043 | .00144 | -.00037 |
| #2 | .00964 | .00007 | .00019 | 4.8706 | .00155 | .00061 | 10.346 | -.00027 | .00121 | -.00025 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7649.2** | **77689.** | **7746.1** |
| Stddev | 50.7 | 353. | 12.8 |
| %RSD | .66265 | .45445 | .16515 |
| #1 | 7613.4 | 77938. | 7737.1 |
| #2 | 7685.1 | 77439. | 7755.2 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 22:51:45 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50878** | **.51947** | **1.0023** | **.51106** | **.49779** | **.47995** | **-.00049** | **4.9675** | **.49372** | **.50562** | **.51234** | **.50153** | **2.4454** |
| Stddev | .00199 | .00062 | .0009 | .00115 | .00168 | .00012 | .00017 | .0072 | .00009 | .00025 | .00058 | .00000 | .0049 |
| %RSD | .39017 | .11891 | .08750 | .22597 | .33705 | .02476 | 33.969 | .14576 | .01889 | .04920 | .11413 | .00077 | .20171 |
| #1 | .50738 | .51990 | 1.0017 | .51024 | .49660 | .48003 | -.00061 | 4.9623 | .49378 | .50545 | .51275 | .50153 | 2.4489 |
| #2 | .51019 | .51903 | 1.0029 | .51187 | .49897 | .47986 | -.00037 | 4.9726 | .49365 | .50580 | .51192 | .50153 | 2.4419 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.637** | **.96487** | **20.001** | **.49685** | **.50646** | **5.1628** | **.51698** | **.99808** | **1.0020** | **.03708** | **.99251** | **1.0031** | **5.1895** |
| Stddev | .003 | .00543 | .015 | .00038 | .00017 | .0172 | .00032 | .00195 | .0009 | .00182 | .00445 | .0032 | .0074 |
| %RSD | .00625 | .56240 | .07345 | .07748 | .03346 | .33280 | .06161 | .19581 | .08546 | 4.8987 | .44828 | .31785 | .14295 |
| #1 | 49.635 | .96871 | 20.012 | .49658 | .50658 | 5.1749 | .51721 | .99670 | 1.0014 | .03837 | .98937 | 1.0009 | 5.1948 |
| #2 | 49.640 | .96103 | 19.991 | .49713 | .50634 | 5.1506 | .51676 | .99946 | 1.0026 | .03580 | .99566 | 1.0054 | 5.1843 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.106** | **1.0118** | **.49771** | **.00068** | **.50197** | **1.0142** | **.00889** | **.48616** | **.50753** | **.50075** |
| Stddev | .016 | .0017 | .00018 | .00005 | .00080 | .0001 | .01848 | .00029 | .00078 | .00165 |
| %RSD | .14295 | .16265 | .03698 | 7.9687 | .15920 | .00790 | 208.01 | .05951 | .15328 | .32919 |
| #1 | 11.117 | 1.0130 | .49758 | .00072 | .50141 | 1.0141 | .02195 | .48636 | .50808 | .49958 |
| #2 | 11.094 | 1.0107 | .49784 | .00065 | .50254 | 1.0143 | -.00418 | .48595 | .50698 | .50192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7906.2** | **80386.** | **7759.0** |
| Stddev | 14.1 | 281. | 2.3 |
| %RSD | .17865 | .34940 | .02987 |
| #1 | 7896.2 | 80584. | 7757.4 |
| #2 | 7916.2 | 80187. | 7760.7 |

Sample Name: CCB Acquired: 5/23/2013 22:53:53 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.00210** | **-.00140** | F **.00702** | **.00016** | **-.00008** | **-.00091** | **.00219** | **.00025** | **.00012** | **.00021** | **.00001** |
| Stddev | .00027 | .00086 | .00273 | .00029 | .00067 | .00004 | .00333 | .00141 | .00002 | .00022 | .00002 | .00047 |
| %RSD | 37.552 | 40.765 | 194.76 | 4.1293 | 418.41 | 53.822 | 364.67 | 64.329 | 8.8398 | 182.91 | 7.3814 | 3899.9 |
| #1 | -.00092 | .00271 | -.00333 | .00722 | -.00031 | -.00005 | -.00326 | .00319 | .00026 | -.00004 | .00020 | .00035 |
| #2 | -.00053 | .00150 | .00053 | .00681 | .00063 | -.00011 | .00144 | .00120 | .00023 | .00028 | .00023 | -.00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | F **.27970** | W **.00457** | **.00332** | **.00005** | **.00058** | W **.17212** | **.00001** | **.00156** | **-.00050** | **.04488** | **.00305** |
| Stddev | .00076 | .03486 | .00308 | .00003 | .00005 | .00013 | .00458 | .00004 | .00070 | .00051 | .00068 | .00147 |
| %RSD | 109.68 | 12.464 | 67.342 | .80827 | 96.033 | 22.349 | 2.6584 | 458.91 | 45.034 | 102.65 | 1.5160 | 48.375 |
| #1 | .00123 | .30435 | .00675 | .00333 | .00009 | .00049 | .16889 | -.00002 | .00106 | -.00014 | .04440 | .00409 |
| #2 | .00016 | .25505 | .00240 | .00330 | .00002 | .00067 | .17536 | .00004 | .00205 | -.00086 | .04536 | .00200 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .25000 | .00261 | | | | .09160 | | | | | |
| Low Limit | | -.25000 | -.00261 | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00470** | **.01613** | **.03451** | **-.00021** | **.00002** | **-.00036** | **.00001** | **.00049** | **.01082** | **-.00058** | **.00252** | **.00143** |
| Stddev | .00055 | .00244 | .00523 | .00045 | .00016 | .00013 | .00021 | .00042 | .00615 | .00040 | .00003 | .00134 |
| %RSD | 11.702 | 15.147 | 15.147 | 216.73 | 938.54 | 35.766 | 2897.8 | 84.836 | 56.830 | 67.963 | 1.3847 | 93.856 |
| #1 | .00508 | .01786 | .03821 | .00011 | -.00010 | -.00046 | -.00014 | .00020 | .00647 | -.00087 | .00249 | .00048 |
| #2 | .00431 | .01440 | .03082 | -.00053 | .00013 | -.00027 | .00016 | .00079 | .01517 | -.00030 | .00254 | .00238 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7899.6** | **81115.** | **7669.6** |
| Stddev | 11.2 | 232. | 6.3 |
| %RSD | .14228 | .28655 | .08188 |
| #1 | 7891.6 | 80951. | 7674.0 |
| #2 | 7907.5 | 81279. | 7665.2 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 22:56:07 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00994** | **.10948** | **.01482** | **.10949** | **.01071** | **.00098** | **.11619** | **.21064** | **.00518** | **.01067** | **.01098** | **.01529** | **.09956** |
| Stddev | .00053 | .00025 | .00081 | .00029 | .00040 | .00003 | .00241 | .00018 | .00009 | .00009 | .00004 | .00005 | .00090 |
| %RSD | 5.3124 | .23161 | 5.4901 | .26330 | 3.7583 | 3.0228 | 2.0724 | .08385 | 1.6854 | .81149 | .37553 | .33939 | .90297 |
| #1 | .01031 | .10930 | .01540 | .10970 | .01043 | .00100 | .11789 | .21051 | .00512 | .01073 | .01095 | .01533 | .10019 |
| #2 | .00957 | .10966 | .01425 | .10929 | .01100 | .00096 | .11449 | .21076 | .00524 | .01061 | .01101 | .01526 | .09892 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2207** | **.01044** | **.21509** | **.01039** | **.02121** | **1.1783** | **.04414** | **2.9849** | **.00757** | **.04391** | **.01113** | F **.02065** | **.55308** |
| Stddev | .0801 | .00036 | .00071 | .00010 | .00012 | .0107 | .00038 | .0059 | .00024 | .00015 | .00102 | .00063 | .02005 |
| %RSD | 2.4873 | 3.4235 | .33188 | .92582 | .55826 | .90622 | .86762 | .19811 | 3.2001 | .33965 | 9.1860 | 3.0313 | 3.6247 |
| #1 | 3.2774 | .01019 | .21559 | .01032 | .02112 | 1.1707 | .04387 | 2.9807 | .00740 | .04381 | .01185 | .02110 | .53890 |
| #2 | 3.1641 | .01070 | .21458 | .01045 | .02129 | 1.1858 | .04441 | 2.9890 | .00774 | .04402 | .01040 | .02021 | .56725 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | | | .01500 | |
| Range | | | | | | | | | | | | 30.000% | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1836** | **.10583** | **.01022** | **.01861** | **.00995** | **.01670** | **.05098** | **.00945** | **.02392** | **.01357** |
| Stddev | .0429 | .00119 | .00005 | .00088 | .00016 | .00037 | .01271 | .00001 | .00028 | .00147 |
| %RSD | 3.6247 | 1.1241 | .44933 | 4.7175 | 1.5611 | 2.2283 | 24.938 | .14057 | 1.1565 | 10.799 |
| #1 | 1.1533 | .10499 | .01025 | .01799 | .01006 | .01696 | .05997 | .00946 | .02412 | .01461 |
| #2 | 1.2139 | .10667 | .01018 | .01923 | .00984 | .01644 | .04199 | .00944 | .02373 | .01254 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7964.9** | **82164.** | **7809.2** |
| Stddev | .1 | 240. | 45.7 |
| %RSD | .00074 | .29166 | .58463 |
| #1 | 7965.0 | 82334. | 7776.9 |
| #2 | 7964.9 | 81995. | 7841.5 |

Sample Name: 280-42551-b-1-a  Acquired: 5/23/2013 22:58:25  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00182** | **213.40** | **.02700** | **.27158** | **1.1917** | **.01698** | **-.01058** | **57.384** | **.00251** | **.15653** |
| Stddev | .00023 | .22 | .00002 | .00107 | .0032 | .00008 | .00239 | .264 | .00007 | .00011 |
| %RSD | 12.396 | .10414 | .07312 | .39462 | .26902 | .48937 | 22.577 | .45927 | 2.9815 | .06829 |
| #1 | -.00166 | 213.56 | .02698 | .27083 | 1.1940 | .01704 | -.00889 | 57.571 | .00256 | .15661 |
| #2 | -.00198 | 213.24 | .02701 | .27234 | 1.1894 | .01692 | -.01227 | 57.198 | .00246 | .15646 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29013** | **.14472** | **214.92** | **36.150** | **.29871** | **85.067** | **3.5395** | **.00030** | **30.918** | **.40328** |
| Stddev | .00018 | .00023 | .31 | .152 | .00039 | .006 | .0420 | .00008 | .377 | .00047 |
| %RSD | .06247 | .15780 | .14568 | .41912 | .13101 | .00660 | 1.1853 | 25.802 | 1.2199 | .11563 |
| #1 | .29000 | .14488 | 214.70 | 36.257 | .29898 | 85.063 | 3.5692 | .00025 | 30.652 | .40361 |
| #2 | .29026 | .14456 | 215.14 | 36.043 | .29843 | 85.071 | 3.5099 | .00036 | 31.185 | .40296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.5869** | **.13363** | **2.1906** | **-.00274** | **.00116** | W **97.273** | **208.17** | **.01189** | **.57555** | **.11718** |
| Stddev | .0129 | .00039 | .0087 | .00390 | .00220 | .503 | 1.08 | .00058 | .00197 | .00231 |
| %RSD | .36046 | .29106 | .39712 | 142.09 | 189.91 | .51719 | .51719 | 4.8938 | .34143 | 1.9705 |
| #1 | 3.5777 | .13391 | 2.1845 | -.00550 | -.00040 | 97.629 | 208.93 | .01148 | .57694 | .11881 |
| #2 | 3.5960 | .13336 | 2.1968 | .00001 | .00272 | 96.918 | 207.40 | .01230 | .57416 | .11554 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | 50.000 | | | | |
| Low Limit | -1.0000 | | | | | -.10000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62687** | **-.00578** | F **-.17824** | **.33088** | **.69350** | **.01217** |
| Stddev | .00053 | .00086 | .03201 | .00018 | .00034 | .00175 |
| %RSD | .08510 | 14.865 | 17.958 | .05295 | .04919 | 14.346 |
| #1 | .62725 | -.00518 | -.20087 | .33076 | .69326 | .01094 |
| #2 | .62649 | -.00639 | -.15561 | .33101 | .69374 | .01341 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8484.8** | **83599.** | **8636.8** |
| Stddev | 47.4 | 379. | 74.3 |
| %RSD | .55902 | .45286 | .86004 |
| #1 | 8451.3 | 83331. | 8584.3 |
| #2 | 8518.4 | 83866. | 8689.4 |

Sample Name: 280-42551-a-3-a  Acquired: 5/23/2013 23:00:46  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00193** | **210.10** | **.02799** | **.27032** | **1.1943** | **.01693** | **-.01526** | **57.064** | **.00280** | **.15409** |
| Stddev | .00013 | .01 | .00078 | .00080 | .0004 | .00015 | .00057 | .105 | .00008 | .00017 |
| %RSD | 6.5285 | .00267 | 2.7874 | .29559 | .03125 | .85927 | 3.7155 | .18338 | 2.7202 | .10763 |
| #1 | -.00184 | 210.10 | .02744 | .26976 | 1.1940 | .01683 | -.01485 | 57.138 | .00285 | .15397 |
| #2 | -.00202 | 210.11 | .02855 | .27089 | 1.1946 | .01703 | -.01566 | 56.990 | .00275 | .15421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28579** | **.14511** | **214.24** | **35.800** | **.29777** | **83.452** | **3.4988** | **-.00003** | **30.511** | **.39845** |
| Stddev | .00006 | .00088 | .87 | .101 | .00163 | .161 | .0679 | .00006 | .104 | .00070 |
| %RSD | .01974 | .60782 | .40627 | .28312 | .54866 | .19259 | 1.9415 | 213.01 | .34180 | .17642 |
| #1 | .28583 | .14573 | 213.62 | 35.872 | .29893 | 83.566 | 3.5469 | .00001 | 30.437 | .39795 |
| #2 | .28575 | .14449 | 214.85 | 35.728 | .29662 | 83.339 | 3.4508 | -.00007 | 30.584 | .39894 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.6449** | **.13514** | **2.1470** | **-.00586** | **.00470** | W **124.95** | W **267.39** | **.01130** | **.57564** | **.11578** |
| Stddev | .0009 | .00012 | .0065 | .00079 | .00042 | .06 | .13 | .00119 | .00003 | .00179 |
| %RSD | .02380 | .09175 | .30212 | 13.457 | 8.8381 | .04932 | .04932 | 10.545 | .00517 | 1.5464 |
| #1 | 3.6443 | .13522 | 2.1516 | -.00641 | .00499 | 124.99 | 267.48 | .01215 | .57562 | .11705 |
| #2 | 3.6455 | .13505 | 2.1424 | -.00530 | .00440 | 124.91 | 267.30 | .01046 | .57566 | .11451 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | 50.000 | 107.00 | | | |
| Low Limit | -1.0000 | | | | | -.10000 | -.21400 | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89092** | **-.00729** | F **-.19819** | **.33453** | **.67756** | **.02124** |
| Stddev | .00710 | .00082 | .00129 | .00212 | .00098 | .00090 |
| %RSD | .79693 | 11.232 | .65146 | .63312 | .14415 | 4.2412 |
| #1 | .88590 | -.00786 | -.19910 | .33602 | .67825 | .02060 |
| #2 | .89595 | -.00671 | -.19728 | .33303 | .67687 | .02187 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8488.4** | **84202.** | **8614.0** |
| Stddev | 15.2 | 13. | 71.2 |
| %RSD | .17850 | .01548 | .82599 |
| #1 | 8499.1 | 84193. | 8563.7 |
| #2 | 8477.7 | 84211. | 8664.3 |

Sample Name: 280-42551-b-1-a@5 Acquired: 5/23/2013 23:03:06 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175548 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00122** | **46.191** | **.00554** | **.06461** | **.25909** | **.00370** | **-.00328** | **12.509** | **.00060** | **.03523** |
| Stddev | .00055 | .186 | .00045 | .00108 | .00048 | .00002 | .00007 | .017 | .00005 | .00000 |
| %RSD | 45.428 | .40213 | 8.2056 | 1.6747 | .18543 | .66017 | 2.2633 | .13904 | 9.0786 | .01264 |
| #1 | -.00083 | 46.322 | .00522 | .06537 | .25943 | .00368 | -.00323 | 12.521 | .00057 | .03523 |
| #2 | -.00161 | 46.060 | .00586 | .06384 | .25875 | .00372 | -.00333 | 12.497 | .00064 | .03522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06442** | **.03132** | **47.472** | **8.0637** | **.06692** | **18.599** | **.77505** | **.00043** | **6.4036** | **.09186** |
| Stddev | .00023 | .00050 | .002 | .0175 | .00217 | .022 | .00051 | .00016 | .0194 | .00023 |
| %RSD | .35375 | 1.5813 | .00435 | .21642 | 3.2351 | .12087 | .06537 | 36.861 | .30298 | .25250 |
| #1 | .06426 | .03097 | 47.473 | 8.0514 | .06539 | 18.615 | .77540 | .00032 | 6.4174 | .09170 |
| #2 | .06458 | .03167 | 47.470 | 8.0760 | .06845 | 18.583 | .77469 | .00055 | 6.3899 | .09202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.77869** | **.02943** | **.50160** | **-.00017** | **.00298** | **21.463** | **45.931** | **.00199** | **.12547** | **.02379** |
| Stddev | .00523 | .00125 | .00048 | .00014 | .00306 | .122 | .261 | .00108 | .00037 | .00007 |
| %RSD | .67226 | 4.2322 | .09542 | 81.269 | 102.49 | .56902 | .56902 | 54.051 | .29310 | .28579 |
| #1 | .77499 | .02855 | .50194 | -.00027 | .00515 | 21.377 | 45.746 | .00123 | .12573 | .02374 |
| #2 | .78240 | .03031 | .50126 | -.00007 | .00082 | 21.549 | 46.116 | .00275 | .12521 | .02383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13425** | **.00019** | **.00390** | **.07189** | **.15479** | **.00275** |
| Stddev | .00023 | .00033 | .01197 | .00028 | .00132 | .00030 |
| %RSD | .16898 | 176.27 | 307.24 | .38928 | .84972 | 10.901 |
| #1 | .13409 | .00042 | .01236 | .07209 | .15572 | .00253 |
| #2 | .13441 | -.00005 | -.00457 | .07169 | .15386 | .00296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8140.7** | **81710.** | **8012.9** |
| Stddev | 16.5 | 186. | 13.8 |
| %RSD | .20284 | .22771 | .17177 |
| #1 | 8129.0 | 81578. | 8003.2 |
| #2 | 8152.4 | 81841. | 8022.7 |

Sample Name: 280-42551-b-2-a  Acquired: 5/23/2013 23:05:18  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00106** | **6.0056** | **.00151** | **.05288** | **.12159** | **.00034** | **-.00287** | **26.021** | **.00019** | **.00217** |
| Stddev | .00005 | .0082 | .00290 | .00024 | .00001 | .00005 | .00007 | .001 | .00011 | .00027 |
| %RSD | 4.4040 | .13628 | 191.59 | .45048 | .00842 | 14.633 | 2.6006 | .00407 | 58.725 | 12.549 |
| #1 | -.00103 | 6.0113 | .00356 | .05305 | .12159 | .00031 | -.00293 | 26.020 | .00028 | .00198 |
| #2 | -.00109 | 5.9998 | -.00054 | .05271 | .12158 | .00038 | -.00282 | 26.022 | .00011 | .00236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00713** | **.01343** | **4.2260** | **5.5636** | **.00896** | **3.3827** | **.19385** | **.00162** | **13.115** | **.00602** |
| Stddev | .00014 | .00001 | .0007 | .0745 | .00465 | .0027 | .00030 | .00023 | .071 | .00015 |
| %RSD | 1.9598 | .08395 | .01622 | 1.3383 | 51.895 | .08047 | .15686 | 14.275 | .54054 | 2.4633 |
| #1 | .00703 | .01342 | 4.2265 | 5.5110 | .00567 | 3.3808 | .19406 | .00178 | 13.065 | .00613 |
| #2 | .00722 | .01344 | 4.2255 | 5.6163 | .01225 | 3.3846 | .19363 | .00145 | 13.166 | .00592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65062** | **.00775** | **2.8850** | **-.00202** | **.00262** | **13.851** | **29.641** | **.00107** | **.09945** | **.00158** |
| Stddev | .00168 | .00131 | .0030 | .00140 | .00305 | .062 | .132 | .00017 | .00041 | .00094 |
| %RSD | .25803 | 16.837 | .10411 | 69.560 | 116.19 | .44470 | .44470 | 16.204 | .41519 | 59.593 |
| #1 | .65181 | .00683 | 2.8872 | -.00301 | .00047 | 13.895 | 29.735 | .00119 | .09916 | .00092 |
| #2 | .64944 | .00868 | 2.8829 | -.00102 | .00478 | 13.808 | 29.548 | .00095 | .09975 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15067** | **.00086** | **-.01395** | **.01297** | **.06663** | **.00735** |
| Stddev | .00726 | .00062 | .03435 | .00030 | .00019 | .00300 |
| %RSD | 4.8209 | 72.600 | 246.18 | 2.3031 | .27913 | 40.778 |
| #1 | .15580 | .00130 | .01034 | .01276 | .06650 | .00947 |
| #2 | .14553 | .00042 | -.03824 | .01319 | .06676 | .00523 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8099.5** | **81810.** | **8015.0** |
| Stddev | 27.8 | 226. | 3.8 |
| %RSD | .34342 | .27681 | .04800 |
| #1 | 8079.8 | 81650. | 8017.7 |
| #2 | 8119.2 | 81970. | 8012.3 |

Sample Name: 280-42551-a-3-a@5 Acquired: 5/23/2013 23:07:32 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175548 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00121** | **47.350** | **.00721** | **.06562** | **.26886** | **.00365** | **-.00478** | **12.749** | **.00079** | **.03551** |
| Stddev | .00060 | .230 | .00095 | .00055 | .00162 | .00010 | .00083 | .048 | .00029 | .00017 |
| %RSD | 49.288 | .48579 | 13.168 | .83951 | .60342 | 2.7308 | 17.317 | .37578 | 36.693 | .48107 |
| #1 | -.00163 | 47.513 | .00654 | .06600 | .27001 | .00372 | -.00419 | 12.783 | .00059 | .03563 |
| #2 | -.00079 | 47.188 | .00788 | .06523 | .26771 | .00358 | -.00536 | 12.715 | .00100 | .03539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06577** | **.03222** | **49.036** | **8.1830** | **.06716** | **18.818** | **.79453** | **.00009** | **6.5269** | **.09306** |
| Stddev | .00013 | .00004 | .213 | .1043 | .00082 | .064 | .00045 | .00008 | .0333 | .00033 |
| %RSD | .19728 | .12833 | .43483 | 1.2744 | 1.2257 | .34165 | .05629 | 86.373 | .51071 | .35693 |
| #1 | .06586 | .03219 | 49.187 | 8.2568 | .06658 | 18.773 | .79421 | .00014 | 6.5504 | .09330 |
| #2 | .06568 | .03225 | 48.885 | 8.1093 | .06774 | 18.864 | .79485 | .00003 | 6.5033 | .09283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.81491** | **.03028** | **.50200** | **-.00076** | **.00330** | **29.069** | **62.207** | **.00252** | **.12903** | **.02613** |
| Stddev | .00198 | .00055 | .00017 | .00051 | .00368 | .244 | .522 | .00004 | .00062 | .00052 |
| %RSD | .24290 | 1.8041 | .03463 | 66.228 | 111.54 | .83943 | .83943 | 1.7101 | .48185 | 1.9748 |
| #1 | .81631 | .02990 | .50188 | -.00041 | .00591 | 29.241 | 62.576 | .00255 | .12947 | .02576 |
| #2 | .81351 | .03067 | .50212 | -.00112 | .00070 | 28.896 | 61.838 | .00249 | .12859 | .02649 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22511** | **-.00074** | **-.02962** | **.07402** | **.16353** | **.00578** |
| Stddev | .00584 | .00087 | .05675 | .00016 | .00063 | .00037 |
| %RSD | 2.5939 | 117.90 | 191.60 | .21289 | .38441 | 6.4543 |
| #1 | .22924 | -.00012 | .01051 | .07413 | .16308 | .00551 |
| #2 | .22098 | -.00136 | -.06975 | .07391 | .16397 | .00604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8121.6** | **81873.** | **8040.0** |
| Stddev | 30.2 | 267. | 43.0 |
| %RSD | .37218 | .32609 | .53501 |
| #1 | 8142.9 | 82062. | 8009.5 |
| #2 | 8100.2 | 81684. | 8070.4 |

Sample Name: 280-42548-c-1-b  Acquired: 5/23/2013 23:09:44  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00094** | **.26848** | **.00007** | **.22471** | **.06878** | **.00007** | **-.00581** | **91.198** | **.00053** | **.00027** |
| Stddev | .00004 | .00076 | .00079 | .00024 | .00002 | .00005 | .00055 | .377 | .00019 | .00011 |
| %RSD | 3.9360 | .28150 | 1129.5 | .10788 | .02208 | 78.847 | 9.5247 | .41331 | 35.769 | 39.671 |
| #1 | -.00092 | .26901 | .00062 | .22454 | .06879 | .00011 | -.00620 | 91.464 | .00066 | .00034 |
| #2 | -.00097 | .26794 | -.00049 | .22488 | .06877 | .00003 | -.00542 | 90.931 | .00039 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **.00223** | **.42817** | **4.5083** | **.06307** | **25.059** | **.10572** | **.00286** | **168.69** | **.00157** |
| Stddev | .00003 | .00014 | .00063 | .1025 | .00131 | .067 | .00011 | .00008 | .50 | .00035 |
| %RSD | 4.2744 | 6.2400 | .14803 | 2.2731 | 2.0745 | .26634 | .10555 | 2.6847 | .29497 | 21.995 |
| #1 | .00069 | .00213 | .42772 | 4.5808 | .06215 | 25.012 | .10564 | .00281 | 169.04 | .00182 |
| #2 | .00065 | .00232 | .42862 | 4.4358 | .06400 | 25.106 | .10580 | .00292 | 168.34 | .00133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30773** | **.00045** | **76.335** | **-.00075** | **.00002** | **4.9149** | **10.518** | **-.00046** | **1.1080** | **-.00113** |
| Stddev | .00084 | .00138 | .107 | .00213 | .00451 | .0230 | .049 | .00068 | .0060 | .00185 |
| %RSD | .27388 | 306.25 | .14011 | 283.37 | 19515. | .46832 | .46832 | 147.73 | .54510 | 163.04 |
| #1 | .30833 | -.00052 | 76.260 | .00075 | .00321 | 4.8987 | 10.483 | -.00094 | 1.1123 | .00017 |
| #2 | .30714 | .00142 | 76.411 | -.00226 | -.00317 | 4.9312 | 10.553 | .00002 | 1.1037 | -.00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00910** | **.00044** | **.02736** | **.00365** | **.00880** | **.00142** |
| Stddev | .00041 | .00033 | .02819 | .00003 | .00007 | .00266 |
| %RSD | 4.5249 | 75.502 | 103.03 | .75914 | .82224 | 187.23 |
| #1 | .00881 | .00068 | .04730 | .00363 | .00885 | .00330 |
| #2 | .00939 | .00021 | .00743 | .00367 | .00875 | -.00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7667.2** | **77390.** | **7792.4** |
| Stddev | 11.9 | 405. | 26.3 |
| %RSD | .15493 | .52318 | .33700 |
| #1 | 7675.6 | 77676. | 7810.9 |
| #2 | 7658.8 | 77103. | 7773.8 |

Sample Name: 280-42548-c-2-b  Acquired: 5/23/2013 23:11:58  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00093** | **.17729** | **-.00211** | **.20064** | **.05799** | **-.00005** | **-.00425** | **84.176** | **.00038** | **.00039** |
| Stddev | .00044 | .00049 | .00254 | .00044 | .00032 | .00000 | .00068 | .224 | .00009 | .00010 |
| %RSD | 46.958 | .27848 | 120.78 | .21829 | .54576 | 8.3628 | 15.961 | .26624 | 22.417 | 25.289 |
| #1 | -.00062 | .17764 | -.00391 | .20095 | .05776 | -.00005 | -.00473 | 84.018 | .00032 | .00032 |
| #2 | -.00124 | .17694 | -.00031 | .20033 | .05821 | -.00005 | -.00377 | 84.334 | .00045 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00186** | **.29258** | **3.9334** | **.05728** | **22.477** | **.08293** | **.00255** | **153.22** | **.00144** |
| Stddev | .00003 | .00035 | .00024 | .0822 | .00301 | .060 | .00024 | .00000 | .29 | .00023 |
| %RSD | 4.9910 | 18.851 | .08188 | 2.0895 | 5.2541 | .26803 | .28607 | .05243 | .18887 | 15.909 |
| #1 | .00060 | .00210 | .29275 | 3.8752 | .05516 | 22.435 | .08310 | .00255 | 153.01 | .00160 |
| #2 | .00064 | .00161 | .29241 | 3.9915 | .05941 | 22.520 | .08276 | .00255 | 153.42 | .00128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26693** | **-.00078** | **74.828** | **.00142** | **.00804** | **4.0650** | **8.6991** | **-.00029** | **1.0018** | **-.00141** |
| Stddev | .00010 | .00026 | .056 | .00148 | .00086 | .0129 | .0276 | .00146 | .0010 | .00180 |
| %RSD | .03760 | 33.642 | .07548 | 104.28 | 10.707 | .31777 | .31777 | 499.19 | .10364 | 127.24 |
| #1 | .26686 | -.00059 | 74.788 | .00247 | .00865 | 4.0559 | 8.6795 | .00074 | 1.0011 | -.00014 |
| #2 | .26700 | -.00096 | 74.868 | .00037 | .00744 | 4.0741 | 8.7186 | -.00132 | 1.0025 | -.00268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00486** | **.00117** | **.05704** | **.00340** | **.00751** | **-.00080** |
| Stddev | .00031 | .00065 | .05241 | .00065 | .00027 | .00223 |
| %RSD | 6.4699 | 55.614 | 91.879 | 19.071 | 3.5878 | 279.57 |
| #1 | .00508 | .00071 | .01998 | .00386 | .00770 | -.00238 |
| #2 | .00464 | .00163 | .09411 | .00294 | .00732 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7684.8** | **77404.** | **7791.4** |
| Stddev | 19.4 | 480. | 40.7 |
| %RSD | .25232 | .62054 | .52261 |
| #1 | 7671.1 | 77744. | 7820.2 |
| #2 | 7698.5 | 77065. | 7762.6 |

Sample Name: 280-42548-c-3-b  Acquired: 5/23/2013 23:14:14  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00150** | **.19741** | **-.00335** | **.21794** | **.06399** | **.00003** | **-.00564** | **92.106** | **.00068** | **.00019** |
| Stddev | .00024 | .00124 | .00246 | .00002 | .00069 | .00006 | .00111 | .563 | .00004 | .00003 |
| %RSD | 16.300 | .62822 | 73.400 | .00771 | 1.0761 | 192.72 | 19.707 | .61095 | 5.2551 | 16.056 |
| #1 | -.00132 | .19829 | -.00510 | .21793 | .06350 | -.00001 | -.00485 | 91.709 | .00066 | .00017 |
| #2 | -.00167 | .19653 | -.00161 | .21795 | .06447 | .00008 | -.00642 | 92.504 | .00071 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00246** | **.30651** | **4.2577** | **.05886** | **24.583** | **.09016** | **.00301** | **167.52** | **.00202** |
| Stddev | .00010 | .00015 | .00172 | .0610 | .00496 | .065 | .00018 | .00007 | 1.09 | .00007 |
| %RSD | 26.155 | 6.2570 | .56020 | 1.4337 | 8.4192 | .26446 | .20272 | 2.3065 | .65217 | 3.5246 |
| #1 | .00048 | .00235 | .30530 | 4.2146 | .05536 | 24.629 | .09029 | .00306 | 166.75 | .00207 |
| #2 | .00033 | .00257 | .30773 | 4.3009 | .06236 | 24.537 | .09003 | .00296 | 168.30 | .00197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27624** | **.00009** | **81.676** | **.00233** | **.00184** | **4.4641** | **9.5532** | **.00040** | **1.0980** | **-.00106** |
| Stddev | .00064 | .00021 | .114 | .00001 | .00210 | .0008 | .0017 | .00035 | .0051 | .00086 |
| %RSD | .23271 | 234.07 | .13915 | .50915 | 114.44 | .01746 | .01746 | 88.533 | .46688 | 80.818 |
| #1 | .27579 | -.00006 | 81.756 | .00232 | .00333 | 4.4636 | 9.5520 | .00015 | 1.0944 | -.00046 |
| #2 | .27670 | .00024 | 81.595 | .00234 | .00035 | 4.4647 | 9.5544 | .00064 | 1.1017 | -.00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00547** | **.00085** | **.02425** | **.00351** | **.00796** | **.00186** |
| Stddev | .00012 | .00076 | .02172 | .00029 | .00045 | .00150 |
| %RSD | 2.1127 | 88.536 | 89.552 | 8.3354 | 5.6525 | 80.815 |
| #1 | .00539 | .00032 | .03961 | .00330 | .00764 | .00080 |
| #2 | .00555 | .00139 | .00890 | .00371 | .00828 | .00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7606.3** | **76782.** | **7732.6** |
| Stddev | 5.4 | 51. | 65.9 |
| %RSD | .07161 | .06606 | .85271 |
| #1 | 7602.4 | 76818. | 7779.2 |
| #2 | 7610.1 | 76746. | 7685.9 |

Sample Name: 280-42548-c-4-b  Acquired: 5/23/2013 23:16:29  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175548  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00164** | **.19799** | **.00242** | **.21608** | **.05855** | **.00005** | **-.00132** | **92.045** | **.00048** | **.00022** |
| Stddev | .00059 | .00043 | .00109 | .00004 | .00041 | .00000 | .00052 | .171 | .00015 | .00017 |
| %RSD | 36.144 | .21652 | 45.044 | .01665 | .70652 | 1.9188 | 39.085 | .18588 | 31.881 | 77.024 |
| #1 | -.00206 | .19829 | .00165 | .21611 | .05826 | .00005 | -.00169 | 91.925 | .00037 | .00010 |
| #2 | -.00122 | .19768 | .00319 | .21606 | .05884 | .00005 | -.00096 | 92.166 | .00059 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **.00255** | **.29874** | **4.1036** | **.05740** | **24.003** | **.09549** | **.00294** | **166.37** | **.00158** |
| Stddev | .00006 | .00005 | .00780 | .0682 | .00098 | .015 | .00003 | .00014 | .72 | .00026 |
| %RSD | 9.0632 | 2.1209 | 2.6102 | 1.6612 | 1.6997 | .06128 | .03295 | 4.6698 | .43542 | 16.575 |
| #1 | .00065 | .00259 | .29323 | 4.0554 | .05671 | 23.993 | .09547 | .00284 | 165.86 | .00139 |
| #2 | .00057 | .00251 | .30425 | 4.1518 | .05809 | 24.014 | .09551 | .00304 | 166.88 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25737** | **-.00088** | **86.079** | **.00045** | **.00367** | **4.2280** | **9.0479** | **.00023** | **1.0772** | **-.00348** |
| Stddev | .00058 | .00074 | .055 | .00059 | .00430 | .0135 | .0289 | .00025 | .0028 | .00139 |
| %RSD | .22699 | 84.730 | .06333 | 129.48 | 117.04 | .31899 | .31899 | 110.05 | .25878 | 39.917 |
| #1 | .25778 | -.00035 | 86.040 | .00004 | .00063 | 4.2375 | 9.0683 | .00005 | 1.0753 | -.00250 |
| #2 | .25696 | -.00140 | 86.117 | .00087 | .00671 | 4.2184 | 9.0275 | .00040 | 1.0792 | -.00447 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00557** | **.00018** | **.07172** | **.00282** | **.00749** | **.00086** |
| Stddev | .00023 | .00033 | .03196 | .00012 | .00012 | .00068 |
| %RSD | 4.1255 | 183.12 | 44.564 | 4.3450 | 1.6612 | 79.015 |
| #1 | .00541 | -.00005 | .09432 | .00274 | .00740 | .00133 |
| #2 | .00574 | .00041 | .04912 | .00291 | .00758 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7658.7** | **76964.** | **7687.2** |
| Stddev | 6.4 | 303. | 93.4 |
| %RSD | .08364 | .39361 | 1.2147 |
| #1 | 7654.1 | 76750. | 7753.2 |
| #2 | 7663.2 | 77178. | 7621.2 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 23:18:44 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00130** | **48.936** | **-.00058** | **.00515** | **.00006** | **.00006** | **1.0155** | **-.00633** | **.00036** | **.00041** | **.00004** | **-.00030** | **50.147** |
| Stddev | .00078 | .057 | .00244 | .00039 | .00002 | .00005 | .0001 | .00267 | .00009 | .00007 | .00007 | .00013 | .336 |
| %RSD | 60.092 | .11700 | 420.03 | 7.6448 | 36.425 | 78.453 | .01401 | 42.140 | 24.081 | 18.400 | 186.73 | 43.992 | .66972 |
| #1 | -.00074 | 48.977 | .00114 | .00487 | .00004 | .00003 | 1.0154 | -.00444 | .00042 | .00046 | .00009 | -.00021 | 49.909 |
| #2 | -.00185 | 48.896 | -.00231 | .00543 | .00007 | .00010 | 1.0156 | -.00821 | .00030 | .00035 | -.00001 | -.00039 | 50.384 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31287** | **.00332** | **.04146** | **-.00001** | **-.00046** | **253.33** | **-.00011** | **.00416** | **-.00275** | **4.8469** | **.00026** | **.00513** | **.03961** |
| Stddev | .01767 | .00077 | .00136 | .00006 | .00029 | 1.05 | .00017 | .00153 | .00198 | .0005 | .00184 | .00222 | .01391 |
| %RSD | 5.6461 | 23.282 | 3.2877 | 543.49 | 63.522 | .41556 | 151.45 | 36.907 | 72.237 | .00983 | 718.82 | 43.259 | 35.132 |
| #1 | .30038 | .00386 | .04242 | .00003 | -.00026 | 252.58 | -.00024 | .00524 | -.00415 | 4.8473 | .00156 | .00356 | .04945 |
| #2 | .32536 | .00277 | .04049 | -.00005 | -.00067 | 254.07 | .00001 | .00307 | -.00134 | 4.8466 | -.00105 | .00670 | .02977 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08476** | **.00036** | **.00031** | **4.8900** | **.00167** | **.00036** | **10.403** | **-.00004** | **.00130** | **-.00045** |
| Stddev | .02978 | .00067 | .00004 | .0113 | .00048 | .00097 | .024 | .00000 | .00021 | .00429 |
| %RSD | 35.132 | 184.85 | 11.653 | .23098 | 28.746 | 267.61 | .22653 | .03057 | 16.291 | 960.89 |
| #1 | .10581 | .00084 | .00034 | 4.8979 | .00133 | -.00032 | 10.420 | -.00004 | .00144 | -.00348 |
| #2 | .06370 | -.00011 | .00029 | 4.8820 | .00201 | .00105 | 10.387 | -.00004 | .00115 | .00258 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7658.5** | **77303.** | **7924.6** |
| Stddev | 18.4 | 1521. | 52.4 |
| %RSD | .24047 | 1.9679 | .66117 |
| #1 | 7671.5 | 78379. | 7887.6 |
| #2 | 7645.5 | 76228. | 7961.7 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 23:21:03 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51262** | **.51846** | **1.0008** | **.50879** | **.49471** | **.47932** | **.00040** | **4.9207** | **.49131** | **.50255** | **.51240** | **.50081** | **2.4245** |
| Stddev | .00207 | .00138 | .0018 | .00100 | .00086 | .00036 | .00188 | .0130 | .00049 | .00023 | .00081 | .00010 | .0104 |
| %RSD | .40368 | .26604 | .18344 | .19663 | .17462 | .07612 | 467.88 | .26459 | .10051 | .04665 | .15838 | .02030 | .42772 |
| #1 | .51409 | .51749 | .99953 | .50808 | .49410 | .47957 | -.00093 | 4.9299 | .49166 | .50272 | .51182 | .50089 | 2.4318 |
| #2 | .51116 | .51944 | 1.0021 | .50950 | .49532 | .47906 | .00173 | 4.9115 | .49096 | .50239 | .51297 | .50074 | 2.4172 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.165** | **.95658** | **20.084** | **.49554** | **.50614** | **5.0275** | **.51650** | **.99844** | **.99063** | **.03500** | **.98927** | **1.0043** | **5.2181** |
| Stddev | .036 | .00288 | .026 | .00004 | .00019 | .0123 | .00024 | .00278 | .00231 | .00048 | .00055 | .0004 | .0202 |
| %RSD | .07324 | .30142 | .12982 | .00781 | .03754 | .24364 | .04594 | .27830 | .23334 | 1.3597 | .05542 | .04313 | .38727 |
| #1 | 49.190 | .95862 | 20.102 | .49557 | .50601 | 5.0361 | .51634 | .99648 | .99227 | .03467 | .98966 | 1.0046 | 5.2324 |
| #2 | 49.140 | .95454 | 20.065 | .49552 | .50627 | 5.0188 | .51667 | 1.0004 | .98900 | .03534 | .98888 | 1.0040 | 5.2038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.167** | **1.0103** | **.49451** | **.00136** | **.49950** | **1.0115** | **-.00001** | **.48321** | **.50869** | **.49557** |
| Stddev | .043 | .0011 | .00028 | .00054 | .00017 | .0003 | .03140 | .00128 | .00129 | .00249 |
| %RSD | .38727 | .11152 | .05688 | 39.598 | .03319 | .02571 | 258510. | .26419 | .25318 | .50321 |
| #1 | 11.197 | 1.0111 | .49431 | .00098 | .49962 | 1.0117 | -.02222 | .48411 | .50960 | .49734 |
| #2 | 11.136 | 1.0095 | .49471 | .00174 | .49938 | 1.0113 | .02219 | .48231 | .50778 | .49381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7903.9** | **80012.** | **7691.0** |
| Stddev | 29.5 | 71. | 26.2 |
| %RSD | .37307 | .08909 | .34046 |
| #1 | 7924.8 | 79961. | 7672.5 |
| #2 | 7883.1 | 80062. | 7709.5 |

Sample Name: CCB Acquired: 5/23/2013 23:23:10 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00055** | **.00166** | **.00034** | **.00384** | **-.00017** | **.00003** | **.00112** | **.00084** | **-.00005** | **.00013** | **.00007** | **.00009** |
| Stddev | .00001 | .00073 | .00216 | .00041 | .00011 | .00001 | .00136 | .00105 | .00015 | .00001 | .00011 | .00015 |
| %RSD | 2.5253 | 44.286 | 630.00 | 10.791 | 65.297 | 37.266 | 121.31 | 124.54 | 308.00 | 10.436 | 164.51 | 168.73 |
| #1 | -.00056 | .00114 | -.00119 | .00355 | -.00025 | .00004 | .00208 | .00159 | .00006 | .00014 | -.00001 | .00020 |
| #2 | -.00054 | .00218 | .00187 | .00413 | -.00009 | .00002 | .00016 | .00010 | -.00016 | .00012 | .00014 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00251** | F **.33222** | **.00255** | **.00248** | **.00000** | **.00045** | **.08387** | **-.00007** | **.00069** | **-.00157** | **.03683** | W **.00388** |
| Stddev | .00171 | .10109 | .00259 | .00124 | .00005 | .00010 | .01937 | .00071 | .00061 | .00039 | .00130 | .00016 |
| %RSD | 68.164 | 30.428 | 101.85 | 50.187 | 2766.4 | 23.082 | 23.093 | 990.41 | 88.861 | 24.806 | 3.5394 | 4.2291 |
| #1 | .00372 | .40370 | .00438 | .00335 | -.00003 | .00052 | .09756 | -.00058 | .00026 | -.00129 | .03591 | .00376 |
| #2 | .00130 | .26074 | .00071 | .00160 | .00004 | .00038 | .07017 | .00043 | .00112 | -.00184 | .03775 | .00400 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | .25000 | | | | | | | | | | .00314 |
| Low Limit | | -.25000 | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00364** | **.02863** | **.06127** | **.00024** | **-.00006** | **.00074** | **-.00042** | **.00034** | **.01547** | **.00014** | **.00252** | **-.00122** |
| Stddev | .00052 | .00090 | .00193 | .00041 | .00004 | .00150 | .00004 | .00002 | .00478 | .00024 | .00016 | .00221 |
| %RSD | 14.408 | 3.1477 | 3.1477 | 171.96 | 69.051 | 201.90 | 9.0046 | 4.6594 | 30.869 | 166.44 | 6.3360 | 180.75 |
| #1 | .00401 | .02799 | .05990 | .00053 | -.00003 | -.00032 | -.00039 | .00035 | .01885 | .00031 | .00240 | .00034 |
| #2 | .00327 | .02927 | .06263 | -.00005 | -.00009 | .00180 | -.00045 | .00032 | .01209 | -.00003 | .00263 | -.00279 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7859.2** | **80655.** | **7616.0** |
| Stddev | 5.9 | 441. | 30.2 |
| %RSD | .07519 | .54619 | .39614 |
| #1 | 7855.0 | 80344. | 7637.3 |
| #2 | 7863.3 | 80967. | 7594.7 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 23:25:25 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00963** | **.10900** | **.01411** | **.10613** | **.00985** | **.00101** | **.11248** | **.20955** | **.00507** | **.01086** | **.01083** | **.01628** | **.10237** |
| Stddev | .00057 | .00005 | .00222 | .00099 | .00005 | .00004 | .00034 | .00027 | .00017 | .00005 | .00004 | .00010 | .00054 |
| %RSD | 5.9088 | .04996 | 15.743 | .93640 | .46030 | 3.9755 | .29933 | .13114 | 3.4318 | .47223 | .40573 | .60897 | .52509 |
| #1 | .00923 | .10903 | .01568 | .10543 | .00988 | .00098 | .11272 | .20936 | .00519 | .01090 | .01086 | .01621 | .10198 |
| #2 | .01003 | .10896 | .01254 | .10684 | .00981 | .00104 | .11225 | .20975 | .00494 | .01083 | .01080 | .01635 | .10275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2044** | F **.01311** | **.21354** | **.01037** | **.02101** | **1.1259** | **.04312** | **2.9351** | **.00749** | **.03209** | **.01194** | **.01613** | **.57878** |
| Stddev | .0562 | .00388 | .00219 | .00005 | .00012 | .0005 | .00019 | .0058 | .00021 | .00085 | .00038 | .00032 | .00718 |
| %RSD | 1.7532 | 29.600 | 1.0262 | .48700 | .55793 | .04255 | .44754 | .19771 | 2.8198 | 2.6361 | 3.1482 | 1.9624 | 1.2407 |
| #1 | 3.2441 | .01585 | .21509 | .01034 | .02092 | 1.1255 | .04299 | 2.9310 | .00734 | .03269 | .01220 | .01591 | .58386 |
| #2 | 3.1646 | .01037 | .21199 | .01041 | .02109 | 1.1262 | .04326 | 2.9392 | .00764 | .03149 | .01167 | .01635 | .57371 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2386** | **.10464** | **.01024** | **.01421** | **.00975** | **.01556** | F **.10300** | **.00983** | **.02336** | **.01328** |
| Stddev | .0154 | .00022 | .00001 | .00086 | .00015 | .00021 | .00851 | .00016 | .00025 | .00069 |
| %RSD | 1.2407 | .20664 | .05355 | 6.0725 | 1.5140 | 1.3490 | 8.2634 | 1.6070 | 1.0739 | 5.1629 |
| #1 | 1.2495 | .10449 | .01024 | .01482 | .00965 | .01571 | .10902 | .00972 | .02318 | .01376 |
| #2 | 1.2277 | .10479 | .01024 | .01360 | .00986 | .01541 | .09699 | .00995 | .02353 | .01279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7959.2** | **81311.** | **7717.2** |
| Stddev | 7.0 | 437. | 26.3 |
| %RSD | .08763 | .53768 | .34116 |
| #1 | 7954.3 | 81620. | 7735.8 |
| #2 | 7964.2 | 81002. | 7698.6 |

Sample Name: mb 280-175558/1-a  Acquired: 5/23/2013 23:27:42  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00142** | **.00297** | **.00010** | **.00260** | **.00000** | **.00006** | **-.00077** | **.01901** | **-.00006** | **.00008** |
| Stddev | .00008 | .00003 | .00006 | .00015 | .00006 | .00000 | .00101 | .00149 | .00004 | .00001 |
| %RSD | 5.5060 | 1.1752 | 59.377 | 5.8367 | 2003.0 | 3.1373 | 131.77 | 7.8154 | 62.586 | 9.1868 |
| #1 | -.00137 | .00295 | .00006 | .00249 | -.00004 | .00006 | -.00148 | .01796 | -.00003 | .00007 |
| #2 | -.00148 | .00300 | .00014 | .00271 | .00005 | .00006 | -.00005 | .02006 | -.00009 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **-.00036** | **.00347** | **.23529** | **.00396** | **.00871** | **.00019** | **.00020** | **.07470** | **-.00033** |
| Stddev | .00001 | .00011 | .00064 | .04944 | .00176 | .00211 | .00004 | .00007 | .00907 | .00024 |
| %RSD | 8.5137 | 30.207 | 18.447 | 21.012 | 44.552 | 24.219 | 21.279 | 35.461 | 12.140 | 75.055 |
| #1 | .00010 | -.00028 | .00393 | .27025 | .00520 | .01020 | .00016 | .00015 | .08111 | -.00015 |
| #2 | .00012 | -.00044 | .00302 | .20033 | .00271 | .00722 | .00022 | .00025 | .06829 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19890** | **-.00053** | **.04580** | **-.00072** | **.00204** | **.06666** | **.14266** | **-.00010** | **.00015** | **-.00046** |
| Stddev | .00040 | .00018 | .00011 | .00085 | .00146 | .02112 | .04520 | .00061 | .00019 | .00222 |
| %RSD | .20163 | 33.470 | .24354 | 117.95 | 71.402 | 31.688 | 31.688 | 613.99 | 129.44 | 478.78 |
| #1 | .19861 | -.00041 | .04573 | -.00132 | .00101 | .05172 | .11069 | -.00053 | .00028 | -.00203 |
| #2 | .19918 | -.00066 | .04588 | -.00012 | .00307 | .08160 | .17462 | .00033 | .00001 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **-.00053** | **.00502** | **-.00025** | **.00216** | **-.00061** |
| Stddev | .00029 | .00086 | .01702 | .00108 | .00023 | .00169 |
| %RSD | 49.204 | 163.92 | 339.33 | 437.59 | 10.896 | 277.41 |
| #1 | -.00039 | .00008 | .01705 | .00052 | .00199 | -.00180 |
| #2 | -.00080 | -.00113 | -.00702 | -.00101 | .00232 | .00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8024.9** | **82700.** | **7755.5** |
| Stddev | 8.2 | 407. | 65.8 |
| %RSD | .10261 | .49215 | .84880 |
| #1 | 8019.1 | 82412. | 7709.0 |
| #2 | 8030.8 | 82987. | 7802.1 |

Sample Name: lcs 280-175558/2-a Acquired: 5/23/2013 23:29:56 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175558 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05088** | **1.9422** | **.99147** | **1.0163** | **1.9637** | **.04783** | **2.1282** | **48.529** | **.09843** | **.48562** |
| Stddev | .00003 | .0037 | .00592 | .0043 | .0028 | .00006 | .0022 | .158 | .00015 | .00133 |
| %RSD | .06803 | .19300 | .59728 | .41925 | .14277 | .13479 | .10291 | .32454 | .15305 | .27348 |
| #1 | .05090 | 1.9395 | .98728 | 1.0133 | 1.9657 | .04778 | 2.1267 | 48.641 | .09854 | .48468 |
| #2 | .05085 | 1.9448 | .99566 | 1.0193 | 1.9617 | .04787 | 2.1298 | 48.418 | .09833 | .48656 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20251** | **.24668** | **.96911** | **48.788** | **.94242** | **49.343** | **.48778** | **1.0347** | **51.099** | **.49846** |
| Stddev | .00037 | .00160 | .00690 | .195 | .00034 | .117 | .00088 | .0022 | .886 | .00116 |
| %RSD | .18207 | .64833 | .71174 | .39933 | .03617 | .23627 | .18133 | .20814 | 1.7338 | .23272 |
| #1 | .20225 | .24781 | .97398 | 48.926 | .94266 | 49.426 | .48841 | 1.0332 | 51.726 | .49764 |
| #2 | .20278 | .24555 | .96423 | 48.650 | .94218 | 49.261 | .48715 | 1.0362 | 50.473 | .49928 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.245** | **.48282** | **.03914** | **.52542** | **1.9968** | **10.674** | **22.842** | **2.0313** | **.98128** | **.99790** |
| Stddev | .017 | .00117 | .00027 | .00175 | .0014 | .032 | .069 | .0013 | .00132 | .00527 |
| %RSD | .16753 | .24234 | .69079 | .33295 | .07149 | .30364 | .30364 | .06337 | .13494 | .52768 |
| #1 | 10.232 | .48365 | .03895 | .52419 | 1.9958 | 10.651 | 22.793 | 2.0304 | .98221 | 1.0016 |
| #2 | 10.257 | .48200 | .03933 | .52666 | 1.9978 | 10.697 | 22.891 | 2.0322 | .98034 | .99417 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0283** | **1.9232** | **2.2100** | **.48879** | **.50299** | **.50627** |
| Stddev | .0006 | .0034 | .0039 | .00055 | .00167 | .00049 |
| %RSD | .06300 | .17953 | .17624 | .11182 | .33201 | .09625 |
| #1 | 1.0288 | 1.9256 | 2.2127 | .48918 | .50417 | .50593 |
| #2 | 1.0278 | 1.9208 | 2.2072 | .48841 | .50181 | .50662 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7705.5** | **77411.** | **7748.7** |
| Stddev | 26.6 | 100. | 20.2 |
| %RSD | .34525 | .12871 | .26100 |
| #1 | 7724.3 | 77340. | 7734.4 |
| #2 | 7686.7 | 77481. | 7763.0 |

Sample Name: 280-42506-g-1-d  Acquired: 5/23/2013 23:32:03  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00085** | **.01074** | **-.00011** | **.95288** | **.00927** | **-.00001** | **-.01156** | **468.37** | **.00139** | **.00017** |
| Stddev | .00037 | .00030 | .00123 | .00108 | .00037 | .00005 | .00271 | 17.17 | .00009 | .00021 |
| %RSD | 43.574 | 2.8072 | 1071.2 | .11341 | 4.0436 | 348.82 | 23.444 | 3.6653 | 6.3816 | 124.10 |
| #1 | -.00112 | .01053 | .00076 | .95365 | .00954 | -.00005 | -.00965 | 456.23 | .00145 | .00032 |
| #2 | -.00059 | .01095 | -.00098 | .95212 | .00901 | .00002 | -.01348 | 480.51 | .00133 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09420** | **.01848** | **.52807** | **18.561** | **.21069** | **195.98** | **.00234** | **.03576** | **236.19** | **.08430** |
| Stddev | .00004 | .00053 | .00162 | .007 | .00233 | .32 | .00001 | .00005 | .96 | .00024 |
| %RSD | .04047 | 2.8477 | .30764 | .03528 | 1.1046 | .16491 | .49950 | .14605 | .40619 | .28915 |
| #1 | .09422 | .01811 | .52922 | 18.566 | .20905 | 195.75 | .00235 | .03580 | 235.52 | .08412 |
| #2 | .09417 | .01885 | .52692 | 18.557 | .21234 | 196.21 | .00234 | .03573 | 236.87 | .08447 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22012** | **.00088** | F **671.09** | **.00029** | **.00527** | **6.9716** | **14.919** | **-.00038** | W **6.5512** | **-.00201** |
| Stddev | .00075 | .00084 | 1.71 | .00186 | .00671 | .0301 | .064 | .00076 | .0252 | .00260 |
| %RSD | .33857 | 95.687 | .25430 | 633.76 | 127.16 | .43150 | .43150 | 202.64 | .38435 | 129.47 |
| #1 | .21959 | .00147 | 672.30 | -.00102 | .01002 | 6.9929 | 14.965 | -.00091 | 6.5690 | -.00385 |
| #2 | .22064 | .00028 | 669.89 | .00161 | .00053 | 6.9503 | 14.874 | .00016 | 6.5334 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00099** | **-.04307** | **.00344** | **.00619** | **-.00012** |
| Stddev | .00007 | .00030 | .05681 | .00032 | .00020 | .00381 |
| %RSD | 109.63 | 30.500 | 131.90 | 9.4173 | 3.2650 | 3104.0 |
| #1 | .00001 | .00078 | -.00290 | .00321 | .00633 | -.00282 |
| #2 | .00011 | .00120 | -.08324 | .00367 | .00605 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7259.3** | **72798.** | **7584.3** |
| Stddev | 20.2 | 155. | 37.4 |
| %RSD | .27864 | .21255 | .49296 |
| #1 | 7273.6 | 72907. | 7610.7 |
| #2 | 7245.0 | 72688. | 7557.8 |

Sample Name: 280-42506-g-1-dSD@5 Acquired: 5/23/2013 23:34:34 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175558 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00156** | **.00410** | **-.00111** | **.21157** | **.00185** | **.00006** | **-.00365** | **102.25** | **.00057** | **.00004** |
| Stddev | .00064 | .00003 | .00168 | .00037 | .00013 | .00009 | .00077 | .43 | .00017 | .00001 |
| %RSD | 41.416 | .77205 | 151.17 | .17722 | 6.7894 | 151.18 | 21.243 | .42535 | 30.256 | 21.913 |
| #1 | -.00201 | .00408 | -.00230 | .21131 | .00176 | .00012 | -.00419 | 102.56 | .00069 | .00004 |
| #2 | -.00110 | .00412 | .00008 | .21184 | .00194 | .00000 | -.00310 | 101.95 | .00045 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02052** | **.00434** | **.12862** | **4.0528** | **.04929** | **41.725** | **.00066** | **.00760** | **50.006** | **.01816** |
| Stddev | .00010 | .00002 | .00010 | .0291 | .00272 | .112 | .00003 | .00001 | .102 | .00004 |
| %RSD | .49497 | .55144 | .07511 | .71801 | 5.5106 | .26796 | 4.4528 | .10591 | .20359 | .24193 |
| #1 | .02045 | .00432 | .12855 | 4.0322 | .04737 | 41.804 | .00068 | .00760 | 49.934 | .01819 |
| #2 | .02060 | .00435 | .12868 | 4.0733 | .05121 | 41.646 | .00064 | .00761 | 50.078 | .01813 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04395** | **-.00023** | **144.34** | **-.00226** | **-.00038** | **1.4865** | **3.1810** | **-.00095** | **1.4171** | **.00005** |
| Stddev | .00056 | .00111 | .37 | .00005 | .00075 | .0181 | .0388 | .00009 | .0029 | .00064 |
| %RSD | 1.2782 | 478.60 | .25649 | 2.2422 | 196.66 | 1.2182 | 1.2182 | 9.9918 | .20164 | 1372.3 |
| #1 | .04435 | -.00102 | 144.08 | -.00223 | .00015 | 1.4737 | 3.1536 | -.00102 | 1.4191 | -.00040 |
| #2 | .04356 | .00056 | 144.60 | -.00230 | -.00091 | 1.4993 | 3.2084 | -.00088 | 1.4151 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **.00051** | **-.02083** | **.00099** | **.00464** | **-.00017** |
| Stddev | .00021 | .00062 | .01177 | .00057 | .00022 | .00231 |
| %RSD | 56.323 | 120.97 | 56.528 | 57.376 | 4.8159 | 1338.7 |
| #1 | -.00022 | .00095 | -.01250 | .00059 | .00480 | -.00180 |
| #2 | -.00052 | .00007 | -.02915 | .00139 | .00448 | .00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7745.1** | **78273.** | **7830.0** |
| Stddev | 16.0 | 142. | 10.7 |
| %RSD | .20612 | .18158 | .13691 |
| #1 | 7733.8 | 78173. | 7837.5 |
| #2 | 7756.4 | 78374. | 7822.4 |

Sample Name: 280-42506-g-1-e ms  Acquired: 5/23/2013 23:36:50  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04608** | **1.6366** | **.92007** | **1.8011** | **1.7456** | **.04122** | F **1.8866** | **490.94** | **.09017** | **.41666** |
| Stddev | .00027 | .0008 | .00224 | .0003 | .0079 | .00015 | .0017 | 5.12 | .00034 | .00007 |
| %RSD | .58168 | .04703 | .24363 | .01689 | .45241 | .35852 | .09142 | 1.0437 | .37231 | .01663 |
| #1 | .04627 | 1.6371 | .92166 | 1.8009 | 1.7401 | .04112 | 1.8878 | 487.32 | .09040 | .41661 |
| #2 | .04589 | 1.6360 | .91849 | 1.8014 | 1.7512 | .04133 | 1.8853 | 494.57 | .08993 | .41671 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26783** | **.23407** | **1.3655** | **61.729** | **1.0434** | **229.56** | **.42700** | **.94741** | **272.80** | **.50559** |
| Stddev | .00048 | .00107 | .0051 | .400 | .0038 | 1.49 | .00051 | .00078 | 2.19 | .00106 |
| %RSD | .18052 | .45532 | .37435 | .64725 | .36710 | .65056 | .11929 | .08273 | .80412 | .20926 |
| #1 | .26748 | .23482 | 1.3691 | 61.447 | 1.0407 | 228.51 | .42736 | .94686 | 271.24 | .50484 |
| #2 | .26817 | .23332 | 1.3619 | 62.012 | 1.0461 | 230.62 | .42664 | .94797 | 274.35 | .50634 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.5890** | **.40711** | F **656.67** | **.47541** | **1.8474** | **16.207** | **34.683** | **1.7427** | W **7.3073** | **.86994** |
| Stddev | .0162 | .00146 | .98 | .00392 | .0039 | .086 | .185 | .0013 | .0089 | .00252 |
| %RSD | .16870 | .35777 | .14915 | .82438 | .21094 | .53240 | .53240 | .07502 | .12128 | .28988 |
| #1 | 9.5776 | .40814 | 657.36 | .47818 | 1.8502 | 16.146 | 34.552 | 1.7417 | 7.3011 | .87173 |
| #2 | 9.6005 | .40608 | 655.98 | .47264 | 1.8447 | 16.268 | 34.814 | 1.7436 | 7.3136 | .86816 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | 5.0000 | |
| Low Limit | -1.0000 | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90174** | **1.5534** | **1.9145** | **.43521** | **.43613** | **.43969** |
| Stddev | .00066 | .0042 | .0083 | .00010 | .00083 | .00002 |
| %RSD | .07338 | .26752 | .43524 | .02364 | .18987 | .00412 |
| #1 | .90127 | 1.5563 | 1.9204 | .43528 | .43671 | .43970 |
| #2 | .90220 | 1.5504 | 1.9086 | .43514 | .43554 | .43967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7120.6** | **71366.** | **7549.9** |
| Stddev | 18.3 | 680. | 35.2 |
| %RSD | .25690 | .95319 | .46577 |
| #1 | 7133.5 | 71847. | 7574.8 |
| #2 | 7107.7 | 70885. | 7525.0 |

Sample Name: 280-42506-g-1-f msd  Acquired: 5/23/2013 23:39:12  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .04833 | 1.7013 | .95920 | 1.8754 | 1.8131 | .04245 | F 1.9704 | W 507.84 | .09395 | .43349 |
| Stddev | .00025 | .0018 | .00474 | .0035 | .0013 | .00007 | .0015 | 10.55 | .00006 | .00016 |
| %RSD | .51767 | .10328 | .49455 | .18523 | .07294 | .17007 | .07591 | 2.0771 | .06585 | .03714 |
| #1 | .04815 | 1.7025 | .96256 | 1.8778 | 1.8122 | .04240 | 1.9714 | 515.30 | .09391 | .43360 |
| #2 | .04850 | 1.7000 | .95585 | 1.8729 | 1.8141 | .04250 | 1.9693 | 500.38 | .09400 | .43338 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | 500.00 | | |
| Low Limit | | | | | | | -.10000 | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .27900 | .24508 | 1.3787 | 64.426 | 1.0786 | 238.53 | .44324 | .98963 | 283.52 | .52689 |
| Stddev | .00067 | .00031 | .0020 | .000 | .0015 | 1.68 | .00061 | .00120 | .50 | .00073 |
| %RSD | .24148 | .12844 | .14390 | .00041 | .14003 | .70268 | .13654 | .12149 | .17767 | .13826 |
| #1 | .27947 | .24530 | 1.3773 | 64.425 | 1.0796 | 237.35 | .44281 | .99048 | 283.17 | .52740 |
| #2 | .27852 | .24485 | 1.3801 | 64.426 | 1.0775 | 239.72 | .44367 | .98878 | 283.88 | .52637 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 9.9800 | .42256 | F 678.22 | .49268 | 1.9328 | 16.964 | 36.304 | 1.8176 | W 7.5055 | .90743 |
| Stddev | .0126 | .00082 | .47 | .00131 | .0019 | .065 | .140 | .0020 | .0010 | .00187 |
| %RSD | .12616 | .19410 | .06921 | .26601 | .09883 | .38474 | .38474 | .11079 | .01322 | .20574 |
| #1 | 9.9889 | .42198 | 678.55 | .49361 | 1.9341 | 16.918 | 36.205 | 1.8190 | 7.5062 | .90611 |
| #2 | 9.9711 | .42314 | 677.88 | .49175 | 1.9314 | 17.011 | 36.403 | 1.8162 | 7.5048 | .90875 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | 5.0000 | |
| Low Limit | -1.0000 | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .93844 | 1.6075 | 1.9659 | .45036 | .44999 | .46222 |
| Stddev | .00011 | .0007 | .0249 | .00064 | .00064 | .00418 |
| %RSD | .01142 | .04151 | 1.2647 | .14207 | .14262 | .90348 |
| #1 | .93851 | 1.6080 | 1.9835 | .45081 | .44954 | .45927 |
| #2 | .93836 | 1.6071 | 1.9484 | .44991 | .45045 | .46518 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 7064.2 | 71122. | 7502.6 |
| Stddev | 16.8 | 119. | 37.2 |
| %RSD | .23772 | .16756 | .49625 |
| #1 | 7052.3 | 71037. | 7476.3 |
| #2 | 7076.1 | 71206. | 7528.9 |

Sample Name: 280-42506-g-2-b  Acquired: 5/23/2013 23:41:41  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00142** | **.01377** | **-.00245** | **1.1593** | **.02800** | **.00002** | **-.01228** | W **501.43** | **.00147** | **-.00003** |
| Stddev | .00042 | .00031 | .00022 | .0001 | .00005 | .00003 | .00340 | 10.73 | .00017 | .00016 |
| %RSD | 29.430 | 2.2234 | 8.8251 | .00403 | .19435 | 187.81 | 27.711 | 2.1392 | 11.267 | 501.47 |
| #1 | -.00171 | .01399 | -.00230 | 1.1594 | .02803 | .00004 | -.01468 | 493.85 | .00159 | -.00014 |
| #2 | -.00112 | .01355 | -.00261 | 1.1593 | .02796 | -.00001 | -.00987 | 509.02 | .00135 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00152** | **.00122** | **.12480** | **21.430** | **.32946** | **217.81** | **1.0639** | **.00294** | **327.09** | **.01499** |
| Stddev | .00002 | .00017 | .00007 | .022 | .00171 | 1.02 | .0062 | .00005 | .36 | .00030 |
| %RSD | 1.3132 | 14.079 | .05412 | .10393 | .52023 | .47055 | .58351 | 1.8676 | .11023 | 1.9904 |
| #1 | .00154 | .00110 | .12485 | 21.415 | .32825 | 218.53 | 1.0683 | .00297 | 327.34 | .01478 |
| #2 | .00151 | .00134 | .12475 | 21.446 | .33067 | 217.08 | 1.0595 | .00290 | 326.83 | .01520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31207** | **-.00076** | F **753.99** | **.00271** | **.00242** | **10.264** | **21.965** | **.00095** | W **9.9293** | **.00019** |
| Stddev | .00274 | .00137 | .54 | .00077 | .00201 | .006 | .012 | .00120 | .1146 | .00080 |
| %RSD | .87662 | 181.16 | .07226 | 28.469 | 82.894 | .05476 | .05476 | 126.72 | 1.1542 | 420.33 |
| #1 | .31400 | -.00173 | 754.37 | .00326 | .00100 | 10.268 | 21.974 | .00180 | 9.8483 | -.00038 |
| #2 | .31013 | .00021 | 753.60 | .00217 | .00384 | 10.260 | 21.957 | .00010 | 10.010 | .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00203** | **-.04687** | **.00603** | **1.0881** | **.00053** |
| Stddev | .00004 | .00064 | .02375 | .00006 | .0074 | .00027 |
| %RSD | 19.388 | 31.335 | 50.666 | 1.0512 | .67688 | 51.776 |
| #1 | -.00016 | .00248 | -.06366 | .00607 | 1.0933 | .00033 |
| #2 | -.00022 | .00158 | -.03008 | .00598 | 1.0829 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7189.0** | **72104.** | **7678.9** |
| Stddev | 15.8 | 589. | 23.2 |
| %RSD | .22031 | .81700 | .30188 |
| #1 | 7177.8 | 71687. | 7695.3 |
| #2 | 7200.2 | 72520. | 7662.5 |

Sample Name: 280-42506-g-3-b  Acquired: 5/23/2013 23:44:18  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00117** | **.00652** | **.00170** | W **18.245** | **.05752** | **.00004** | **-.01035** | W **758.87** | **.00129** | **-.00021** |
| Stddev | .00037 | .00018 | .00149 | .040 | .00010 | .00001 | .00234 | 24.99 | .00003 | .00069 |
| %RSD | 31.417 | 2.7887 | 87.736 | .21999 | .18135 | 24.966 | 22.640 | 3.2928 | 2.0714 | 328.11 |
| #1 | -.00143 | .00639 | .00064 | 18.273 | .05759 | .00003 | -.01201 | 741.20 | .00128 | -.00070 |
| #2 | -.00091 | .00665 | .00275 | 18.216 | .05744 | .00005 | -.00869 | 776.53 | .00131 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | 500.00 | | |
| Low Limit | | | | -.01000 | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **.00062** | **.11613** | **84.075** | W **8.6214** | **168.05** | **1.7040** | **.03744** | W **8323.0** | **.00171** |
| Stddev | .00003 | .00025 | .00418 | 1.021 | .0009 | .35 | .0013 | .00018 | 125.6 | .00014 |
| %RSD | 3.6639 | 40.766 | 3.6034 | 1.2142 | .00995 | .20770 | .07642 | .46839 | 1.5092 | 8.2702 |
| #1 | .00083 | .00044 | .11317 | 83.353 | 8.6207 | 167.80 | 1.7031 | .03756 | 8234.2 | .00181 |
| #2 | .00087 | .00079 | .11909 | 84.797 | 8.6220 | 168.30 | 1.7050 | .03732 | 8411.8 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 2.0000 | | | | 500.00 | |
| Low Limit | | | | | -.01000 | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19749** | **.00017** | F **1453.7** | **.00196** | **.00596** | **3.7006** | **7.9194** | **-.00041** | W **14.856** | **-.00406** |
| Stddev | .00067 | .00135 | 27.5 | .00010 | .00455 | .0263 | .0562 | .00028 | .615 | .00264 |
| %RSD | .34013 | 799.40 | 1.8922 | 5.2294 | 76.394 | .70998 | .70998 | 68.073 | 4.1415 | 65.045 |
| #1 | .19797 | -.00078 | 1473.2 | .00203 | .00274 | 3.6821 | 7.8796 | -.00021 | 14.421 | -.00593 |
| #2 | .19702 | .00112 | 1434.3 | .00188 | .00918 | 3.7192 | 7.9591 | -.00061 | 15.291 | -.00219 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **-.00052** | W **-.06107** | **.00797** | **.00659** | **.00204** |
| Stddev | .00038 | .00087 | .02585 | .00007 | .00014 | .00145 |
| %RSD | 41.934 | 165.31 | 42.324 | .92667 | 2.0780 | 70.979 |
| #1 | .00118 | -.00114 | -.07934 | .00791 | .00649 | .00306 |
| #2 | .00064 | .00009 | -.04279 | .00802 | .00669 | .00101 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5750.2** | **56272.** | **6991.7** |
| Stddev | 11.1 | 350. | 95.9 |
| %RSD | .19253 | .62164 | 1.3715 |
| #1 | 5742.4 | 56519. | 7059.5 |
| #2 | 5758.0 | 56024. | 6923.9 |

Sample Name: 280-42506-g-4-b  Acquired: 5/23/2013 23:47:39  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00128** | **.00263** | **-.00156** | **1.0963** | **.00834** | **-.00009** | **-.01124** | W **513.68** | **.00149** | **.00128** |
| Stddev | .00068 | .00017 | .00094 | .0031 | .00033 | .00004 | .00067 | 8.62 | .00006 | .00014 |
| %RSD | 52.817 | 6.2737 | 60.076 | .27914 | 3.9495 | 39.768 | 5.9748 | 1.6772 | 4.1079 | 11.351 |
| #1 | -.00176 | .00252 | -.00090 | 1.0985 | .00857 | -.00007 | -.01171 | 519.77 | .00145 | .00117 |
| #2 | -.00080 | .00275 | -.00223 | 1.0942 | .00811 | -.00012 | -.01076 | 507.59 | .00153 | .00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01985** | **.00949** | **.15643** | **19.646** | **.26640** | **197.88** | **.00147** | **.01747** | **259.37** | **.00353** |
| Stddev | .00008 | .00036 | .00098 | .063 | .00094 | 2.31 | .00010 | .00007 | 2.87 | .00035 |
| %RSD | .37842 | 3.8276 | .62811 | .31815 | .35395 | 1.1649 | 6.6898 | .38900 | 1.1051 | 9.8730 |
| #1 | .01980 | .00924 | .15574 | 19.690 | .26573 | 199.51 | .00154 | .01742 | 261.40 | .00378 |
| #2 | .01990 | .00975 | .15713 | 19.602 | .26706 | 196.25 | .00140 | .01752 | 257.35 | .00329 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21609** | **-.00075** | F **700.94** | **-.00232** | **.00597** | **7.9682** | **17.052** | **-.00012** | W **7.0251** | **-.00148** |
| Stddev | .00011 | .00012 | .30 | .00178 | .00063 | .0573 | .123 | .00110 | .0951 | .00050 |
| %RSD | .04859 | 15.931 | .04331 | 76.641 | 10.625 | .71878 | .71878 | 931.68 | 1.3544 | 33.831 |
| #1 | .21602 | -.00066 | 701.16 | -.00106 | .00552 | 8.0087 | 17.139 | -.00090 | 7.0923 | -.00184 |
| #2 | .21617 | -.00083 | 700.73 | -.00357 | .00642 | 7.9277 | 16.965 | .00066 | 6.9578 | -.00113 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00077** | **-.01668** | **.00221** | **.00614** | **.00088** |
| Stddev | .00002 | .00140 | .01108 | .00003 | .00018 | .00168 |
| %RSD | 5.2823 | 182.19 | 66.429 | 1.2626 | 2.9839 | 190.07 |
| #1 | .00031 | .00176 | -.02451 | .00219 | .00627 | .00207 |
| #2 | .00034 | -.00022 | -.00884 | .00223 | .00601 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6957.8** | **69871.** | **7275.2** |
| Stddev | 7.1 | 193. | 41.0 |
| %RSD | .10218 | .27666 | .56339 |
| #1 | 6952.8 | 69735. | 7246.2 |
| #2 | 6962.8 | 70008. | 7304.1 |

Sample Name: 280-42506-g-5-b  Acquired: 5/23/2013 23:50:13  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00098** | **.00382** | **-.00394** | **.90045** | **.00981** | **.00005** | **-.00977** | **452.99** | **.00149** | **.00037** |
| Stddev | .00046 | .00015 | .00170 | .00081 | .00024 | .00004 | .00016 | 6.94 | .00028 | .00002 |
| %RSD | 46.503 | 4.0480 | 43.213 | .08957 | 2.4239 | 68.195 | 1.5879 | 1.5327 | 18.480 | 6.4214 |
| #1 | -.00066 | .00371 | -.00515 | .89988 | .00998 | .00008 | -.00966 | 457.90 | .00129 | .00036 |
| #2 | -.00130 | .00393 | -.00274 | .90102 | .00965 | .00003 | -.00988 | 448.08 | .00168 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01534** | **.01004** | **.38106** | **17.706** | **.23584** | **189.21** | **.00598** | **.02868** | **239.53** | **.02470** |
| Stddev | .00003 | .00013 | .00234 | .037 | .00264 | 2.16 | .00003 | .00025 | .21 | .00007 |
| %RSD | .21665 | 1.2833 | .61520 | .20688 | 1.1179 | 1.1397 | .57303 | .88446 | .08599 | .27830 |
| #1 | .01531 | .01013 | .37941 | 17.732 | .23398 | 187.68 | .00601 | .02886 | 239.39 | .02465 |
| #2 | .01536 | .00995 | .38272 | 17.680 | .23771 | 190.73 | .00596 | .02850 | 239.68 | .02475 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21609** | **-.00014** | F **648.00** | **.00033** | **.00412** | **9.4192** | **20.157** | **-.00048** | W **8.5133** | **-.00318** |
| Stddev | .00099 | .00051 | .92 | .00010 | .00442 | .0190 | .041 | .00009 | .0588 | .00349 |
| %RSD | .46043 | 362.90 | .14138 | 31.623 | 107.38 | .20188 | .20188 | 19.098 | .69106 | 109.73 |
| #1 | .21679 | .00022 | 647.36 | .00026 | .00099 | 9.4327 | 20.186 | -.00055 | 8.5549 | -.00071 |
| #2 | .21538 | -.00051 | 648.65 | .00040 | .00724 | 9.4058 | 20.128 | -.00042 | 8.4717 | -.00565 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.00150** | **.02920** | **.00251** | **.00398** | **-.00104** |
| Stddev | .00034 | .00116 | .03929 | .00017 | .00018 | .00075 |
| %RSD | 253.05 | 77.363 | 134.56 | 6.5999 | 4.5243 | 72.408 |
| #1 | -.00038 | .00232 | .00142 | .00239 | .00411 | -.00157 |
| #2 | .00011 | .00068 | .05698 | .00263 | .00385 | -.00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7030.2** | **70217.** | **7352.4** |
| Stddev | .7 | 553. | 59.0 |
| %RSD | .01016 | .78751 | .80235 |
| #1 | 7030.7 | 70608. | 7310.7 |
| #2 | 7029.7 | 69826. | 7394.1 |

Sample Name: CCVH-2067278 Acquired: 5/23/2013 23:52:46 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00130** | **49.291** | **-.00175** | **.02048** | **-.00006** | **-.00008** | **1.0194** | **.12163** | **.00039** | **.00036** | **.00004** | **-.00051** |
| Stddev | .00061 | .132 | .00110 | .00137 | .00023 | .00005 | .0049 | .05757 | .00000 | .00026 | .00008 | .00029 |
| %RSD | 46.620 | .26817 | 63.002 | 6.6764 | 393.37 | 56.617 | .47728 | 47.334 | .02562 | 73.194 | 218.71 | 56.830 |
| #1 | -.00087 | 49.385 | -.00253 | .02145 | -.00022 | -.00005 | 1.0228 | .16234 | .00039 | .00017 | -.00002 | -.00031 |
| #2 | -.00173 | 49.198 | -.00097 | .01951 | .00011 | -.00012 | 1.0159 | .08092 | .00039 | .00054 | .00009 | -.00072 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.358** | **.35196** | **.00488** | **.06263** | **-.00002** | **-.00041** | **253.81** | **.00039** | **.00447** | **-.00184** | **5.0220** | **.00032** |
| Stddev | .022 | .01968 | .00145 | .00250 | .00008 | .00011 | .05 | .00010 | .00117 | .00064 | .0095 | .00079 |
| %RSD | .04351 | 5.5921 | 29.630 | 3.9890 | 493.01 | 26.050 | .02065 | 26.872 | 26.272 | 35.118 | .18889 | 243.93 |
| #1 | 50.374 | .36588 | .00386 | .06086 | .00004 | -.00033 | 253.85 | .00046 | .00364 | -.00138 | 5.0287 | -.00023 |
| #2 | 50.343 | .33805 | .00590 | .06439 | -.00007 | -.00049 | 253.78 | .00032 | .00530 | -.00229 | 5.0153 | .00088 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00386** | **.00873** | **.01868** | **-.00074** | **.00276** | **4.9473** | **.00188** | **.00122** | W **10.537** | **.00010** | **.00151** | **-.00771** |
| Stddev | .00418 | .02880 | .06163 | .00005 | .00113 | .0013 | .00052 | .00068 | .066 | .00061 | .00036 | .00123 |
| %RSD | 108.26 | 329.88 | 329.88 | 7.2279 | 41.009 | .02638 | 27.658 | 56.048 | .62234 | 599.47 | 23.863 | 15.911 |
| #1 | .00682 | .02909 | .06226 | -.00071 | .00357 | 4.9482 | .00225 | .00170 | 10.583 | -.00033 | .00177 | -.00685 |
| #2 | .00091 | -.01163 | -.02490 | -.00078 | .00196 | 4.9463 | .00151 | .00074 | 10.491 | .00054 | .00126 | -.00858 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7707.9** | **76638.** | **7568.4** |
| Stddev | 31.8 | 178. | 12.2 |
| %RSD | .41213 | .23179 | .16150 |
| #1 | 7730.4 | 76512. | 7559.8 |
| #2 | 7685.5 | 76763. | 7577.1 |

Sample Name: CCV-2064677 Acquired: 5/23/2013 23:55:02 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51855** | **.52149** | **1.0102** | **.52685** | **.49676** | **.47994** | **.00084** | **4.8996** | **.49378** | **.50682** | **.51798** | **.50573** | **2.4245** | **48.925** |
| Stddev | .00316 | .00156 | .0008 | .00055 | .00226 | .00169 | .00173 | .0308 | .00094 | .00039 | .00047 | .00140 | .0077 | .351 |
| %RSD | .60990 | .29949 | .08277 | .10436 | .45520 | .35207 | 206.30 | .62895 | .19134 | .07681 | .09136 | .27606 | .31597 | .71779 |
| #1 | .51632 | .52259 | 1.0096 | .52724 | .49516 | .47874 | .00206 | 4.8778 | .49312 | .50709 | .51831 | .50475 | 2.4191 | 48.676 |
| #2 | .52079 | .52038 | 1.0108 | .52646 | .49836 | .48113 | -.00038 | 4.9214 | .49445 | .50654 | .51765 | .50672 | 2.4299 | 49.173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95773** | **20.169** | **.49874** | **.51136** | **5.2056** | **.52235** | **1.0141** | **.99746** | **.12023** | **.99795** | **1.0199** | **5.1833** | **11.092** | **1.0194** |
| Stddev | .00728 | .109 | .00163 | .00042 | .0096 | .00040 | .0003 | .00029 | .00216 | .00082 | .0012 | .0214 | .046 | .0007 |
| %RSD | .75965 | .54196 | .32726 | .08147 | .18382 | .07747 | .02829 | .02915 | 1.7956 | .08185 | .11398 | .41274 | .41274 | .06837 |
| #1 | .95258 | 20.091 | .49759 | .51165 | 5.2124 | .52264 | 1.0143 | .99725 | .12176 | .99853 | 1.0207 | 5.1681 | 11.060 | 1.0189 |
| #2 | .96287 | 20.246 | .49990 | .51106 | 5.1989 | .52207 | 1.0139 | .99766 | .11870 | .99738 | 1.0191 | 5.1984 | 11.125 | 1.0199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49556** | **.00209** | **.50485** | **1.0196** | **.03263** | **.48798** | **.51113** | **.49793** |
| Stddev | .00299 | .00096 | .00085 | .0005 | .00185 | .00143 | .00432 | .00374 |
| %RSD | .60391 | 45.899 | .16780 | .04971 | 5.6720 | .29217 | .84470 | .75177 |
| #1 | .49345 | .00277 | .50425 | 1.0199 | .03394 | .48697 | .50808 | .49529 |
| #2 | .49768 | .00141 | .50545 | 1.0192 | .03132 | .48899 | .51419 | .50058 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7931.1** | **80405.** | **7894.8** |
| Stddev | 19.3 | 632. | 61.5 |
| %RSD | .24327 | .78639 | .77941 |
| #1 | 7917.5 | 80852. | 7938.3 |
| #2 | 7944.7 | 79958. | 7851.3 |

Sample Name: CCB Acquired: 5/23/2013 23:57:10 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W -.00141 | .00051 | -.00195 | F .01367 | -.00018 | .00004 | -.00091 | .00291 | .00005 | .00001 | .00022 |
| Stddev | .00059 | .00017 | .00160 | .00015 | .00010 | .00018 | .00130 | .00039 | .00016 | .00001 | .00002 |
| %RSD | 41.810 | 32.778 | 82.229 | 1.0936 | 58.369 | 428.31 | 143.55 | 13.326 | 361.85 | 110.81 | 10.915 |
| #1 | -.00183 | .00063 | -.00082 | .01356 | -.00025 | .00017 | -.00183 | .00264 | .00016 | .00000 | .00023 |
| #2 | -.00099 | .00039 | -.00309 | .01377 | -.00010 | -.00009 | .00001 | .00318 | -.00007 | .00002 | .00020 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00700 | | | | | | | |
| Low Limit | -.00093 | | | -.00700 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .00006 | .00192 | F .29173 | W .00447 | .00307 | -.00002 | .00050 | F .22703 | -.00020 | .00096 | -.00210 |
| Stddev | .00010 | .00155 | .03846 | .00082 | .00050 | .00001 | .00013 | .00692 | .00015 | .00003 | .00017 |
| %RSD | 150.44 | 80.773 | 13.184 | 18.274 | 16.382 | 33.676 | 26.588 | 3.0501 | 75.888 | 3.2498 | 8.2097 |
| #1 | .00000 | .00302 | .26454 | .00389 | .00271 | -.00003 | .00060 | .22213 | -.00030 | .00094 | -.00198 |
| #2 | .00013 | .00082 | .31893 | .00505 | .00343 | -.00002 | .00041 | .23193 | -.00009 | .00098 | -.00222 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | .00261 | | | | .18320 | | | |
| Low Limit | | | -.25000 | -.00261 | | | | -.18320 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .12816 | .00294 | .00403 | W .03548 | .07592 | -.00030 | .00008 | -.00054 | -.00012 | -.00018 | .00081 |
| Stddev | .00320 | .00073 | .00191 | .00426 | .00912 | .00046 | .00008 | .00141 | .00022 | .00035 | .04267 |
| %RSD | 2.4989 | 24.780 | 47.291 | 12.019 | 12.019 | 152.00 | 92.437 | 258.92 | 180.15 | 197.47 | 5269.2 |
| #1 | .13042 | .00242 | .00538 | .03849 | .08237 | .00002 | .00014 | -.00154 | .00003 | .00007 | .03098 |
| #2 | .12589 | .00345 | .00268 | .03246 | .06947 | -.00063 | .00003 | .00045 | -.00027 | -.00042 | -.02936 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03470 | | | | | | | |
| Low Limit | | | | -.06940 | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.00007 | .00245 | .00042 |
| Stddev | .00045 | .00048 | .00017 |
| %RSD | 674.47 | 19.411 | 40.121 |
| #1 | .00025 | .00279 | .00054 |
| #2 | -.00039 | .00211 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 7897.2 | 81010. | 7750.5 |
| Stddev | 15.2 | 217. | 58.6 |
| %RSD | .19212 | .26740 | .75543 |
| #1 | 7908.0 | 80857. | 7709.1 |
| #2 | 7886.5 | 81163. | 7791.9 |

Sample Name: CCVL2067279[illegible] Acquired: 5/23/2013 23:59:25 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01026** | **.10819** | **.01463** | **.11404** | **.00973** | **.00094** | **.11726** | **.20617** | **.00506** | **.01068** | **.01076** | **.01602** | **.09734** |
| Stddev | .00009 | .00014 | .00185 | .00025 | .00031 | .00007 | .00150 | .00127 | .00004 | .00008 | .00000 | .00058 | .00052 |
| %RSD | .91087 | .13158 | 12.675 | .21928 | 3.2137 | 7.5835 | 1.2805 | .61677 | .86113 | .73589 | .02855 | 3.6031 | .53725 |
| #1 | .01033 | .10809 | .01332 | .11421 | .00951 | .00089 | .11832 | .20527 | .00503 | .01073 | .01075 | .01561 | .09697 |
| #2 | .01019 | .10829 | .01594 | .11386 | .00995 | .00099 | .11620 | .20707 | .00509 | .01062 | .01076 | .01642 | .09771 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2686** | **.01112** | **.21751** | **.01033** | **.02067** | **1.2073** | **.04352** | **2.9698** | **.00878** | **.09452** | **.00978** | **.01856** | **.53871** |
| Stddev | .0548 | .00116 | .00005 | .00000 | .00001 | .0153 | .00003 | .0068 | .00037 | .00426 | .00151 | .00299 | .00918 |
| %RSD | 1.6758 | 10.406 | .02107 | .01015 | .05601 | 1.2687 | .07983 | .22881 | 4.2368 | 4.5101 | 15.488 | 16.086 | 1.7033 |
| #1 | 3.3073 | .01030 | .21754 | .01033 | .02068 | 1.2181 | .04349 | 2.9746 | .00852 | .09753 | .01085 | .01645 | .54520 |
| #2 | 3.2299 | .01194 | .21748 | .01033 | .02066 | 1.1965 | .04354 | 2.9650 | .00905 | .09150 | .00871 | .02067 | .53223 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1528** | **.10554** | **.01034** | **.01458** | **.00959** | **.01589** | F **.08181** | **.00972** | **.02340** | **.01434** |
| Stddev | .0196 | .00041 | .00005 | .00102 | .00008 | .00014 | .00842 | .00047 | .00056 | .00038 |
| %RSD | 1.7033 | .39187 | .45766 | 6.9652 | .87904 | .89014 | 10.292 | 4.8002 | 2.3782 | 2.6501 |
| #1 | 1.1667 | .10583 | .01031 | .01530 | .00953 | .01599 | .08777 | .01005 | .02301 | .01407 |
| #2 | 1.1390 | .10524 | .01038 | .01386 | .00965 | .01579 | .07586 | .00939 | .02379 | .01461 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8104.7** | **82918.** | **7985.3** |
| Stddev | 10.0 | 31. | 47.1 |
| %RSD | .12287 | .03767 | .59044 |
| #1 | 8097.6 | 82896. | 7952.0 |
| #2 | 8111.7 | 82940. | 8018.7 |

Sample Name: 280-42506-g-6-b  Acquired: 5/24/2013 0:01:42  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00115** | **.03564** | **-.00355** | **.90857** | **.02146** | **-.00008** | **-.01088** | **477.26** | **.00118** | **.00067** |
| Stddev | .00019 | .00012 | .00037 | .00097 | .00075 | .00002 | .00137 | 1.95 | .00014 | .00000 |
| %RSD | 16.603 | .32888 | 10.299 | .10692 | 3.4722 | 29.179 | 12.615 | .40802 | 11.716 | .11693 |
| #1 | -.00128 | .03572 | -.00381 | .90926 | .02094 | -.00010 | -.01185 | 475.88 | .00108 | .00067 |
| #2 | -.00101 | .03555 | -.00329 | .90788 | .02199 | -.00006 | -.00991 | 478.64 | .00127 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00641** | **.08985** | **1.3877** | **17.267** | **.21875** | **176.53** | **.14069** | **.04430** | **217.29** | **.01033** |
| Stddev | .00006 | .00011 | .0024 | .095 | .00069 | 1.96 | .00002 | .00009 | .52 | .00035 |
| %RSD | .93285 | .11780 | .17314 | .55162 | .31573 | 1.1087 | .01071 | .20075 | .24045 | 3.3516 |
| #1 | .00645 | .08992 | 1.3860 | 17.199 | .21924 | 177.92 | .14068 | .04424 | 217.66 | .01057 |
| #2 | .00637 | .08977 | 1.3894 | 17.334 | .21826 | 175.15 | .14070 | .04436 | 216.92 | .01008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21130** | **.00061** | F **643.57** | **.00291** | **.00074** | **5.8608** | **12.542** | **.00006** | W **7.4156** | **-.00371** |
| Stddev | .00136 | .00031 | .40 | .00051 | .00228 | .0207 | .044 | .00074 | .0867 | .00197 |
| %RSD | .64507 | 49.964 | .06177 | 17.533 | 308.78 | .35239 | .35239 | 1165.4 | 1.1691 | 52.981 |
| #1 | .21034 | .00040 | 643.29 | .00255 | .00235 | 5.8462 | 12.511 | -.00046 | 7.3543 | -.00510 |
| #2 | .21226 | .00083 | 643.85 | .00327 | -.00087 | 5.8754 | 12.573 | .00059 | 7.4769 | -.00232 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **.00117** | **.03683** | **.00183** | **.01606** | **-.00060** |
| Stddev | .00015 | .00018 | .01862 | .00106 | .00003 | .00229 |
| %RSD | 14.387 | 15.823 | 50.560 | 58.037 | .16479 | 380.06 |
| #1 | .00096 | .00104 | .02366 | .00258 | .01608 | .00102 |
| #2 | .00118 | .00130 | .05000 | .00108 | .01604 | -.00222 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7163.1** | **72240.** | **7519.9** |
| Stddev | 45.9 | 160. | 113.6 |
| %RSD | .64080 | .22194 | 1.5109 |
| #1 | 7195.6 | 72127. | 7600.2 |
| #2 | 7130.7 | 72354. | 7439.5 |

Sample Name: 280-42506-g-7-b  Acquired: 5/24/2013 0:04:14  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00104** | **.00045** | **-.00118** | **1.1515** | **.02330** | **.00000** | **-.01060** | **496.64** | **.00127** | **-.00019** |
| Stddev | .00000 | .00011 | .00050 | .0048 | .00046 | .00013 | .00293 | 15.93 | .00024 | .00001 |
| %RSD | .47682 | 24.248 | 42.242 | .41864 | 1.9860 | 2815.7 | 27.667 | 3.2076 | 19.032 | 6.5123 |
| #1 | -.00103 | .00037 | -.00083 | 1.1481 | .02297 | -.00008 | -.01268 | 485.38 | .00144 | -.00020 |
| #2 | -.00104 | .00052 | -.00153 | 1.1549 | .02363 | .00009 | -.00853 | 507.91 | .00110 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00181** | **7.6234** | **18.073** | **.29554** | **170.76** | **.72028** | **.01369** | **277.45** | **.00063** |
| Stddev | .00012 | .00032 | .0302 | .071 | .00237 | 2.84 | .00050 | .00016 | .63 | .00003 |
| %RSD | 31.678 | 17.559 | .39665 | .39479 | .80339 | 1.6634 | .06950 | 1.1791 | .22719 | 4.6524 |
| #1 | .00030 | .00159 | 7.6448 | 18.023 | .29386 | 168.75 | .72064 | .01357 | 277.90 | .00065 |
| #2 | .00048 | .00204 | 7.6020 | 18.124 | .29722 | 172.77 | .71993 | .01380 | 277.00 | .00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28685** | **.00001** | F **664.59** | **.00298** | **.00337** | **6.5784** | **14.078** | **-.00084** | W **7.1171** | **-.00122** |
| Stddev | .00216 | .00047 | 1.09 | .00084 | .00642 | .0406 | .087 | .00058 | .0326 | .00053 |
| %RSD | .75153 | 4094.7 | .16358 | 28.081 | 190.72 | .61662 | .61662 | 69.353 | .45833 | 43.206 |
| #1 | .28533 | -.00032 | 663.82 | .00358 | -.00117 | 6.6071 | 14.139 | -.00125 | 7.0941 | -.00084 |
| #2 | .28837 | .00034 | 665.35 | .00239 | .00791 | 6.5497 | 14.016 | -.00043 | 7.1402 | -.00159 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **.00162** | **.00106** | **.00406** | **.01161** | **.00016** |
| Stddev | .00012 | .00153 | .02629 | .00059 | .00023 | .00190 |
| %RSD | 76.447 | 94.539 | 2469.9 | 14.535 | 1.9666 | 1155.7 |
| #1 | -.00007 | .00270 | .01966 | .00364 | .01177 | .00151 |
| #2 | -.00023 | .00054 | -.01753 | .00447 | .01145 | -.00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7001.6** | **71692.** | **7415.8** |
| Stddev | 94.1 | 225. | 114.4 |
| %RSD | 1.3433 | .31381 | 1.5424 |
| #1 | 7068.1 | 71851. | 7496.7 |
| #2 | 6935.1 | 71532. | 7335.0 |

Sample Name: 280-42506-g-8-b  Acquired: 5/24/2013 0:06:47  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00091** | **.01897** | **-.00145** | **.87660** | **.01112** | **.00004** | **-.00900** | **475.75** | **.00193** | **.00052** |
| Stddev | .00042 | .00018 | .00125 | .00116 | .00009 | .00006 | .00044 | 1.97 | .00036 | .00008 |
| %RSD | 45.753 | .93598 | 86.513 | .13237 | .79794 | 145.38 | 4.8904 | .41307 | 18.677 | 15.586 |
| #1 | -.00120 | .01885 | -.00056 | .87578 | .01105 | .00009 | -.00869 | 477.14 | .00168 | .00046 |
| #2 | -.00061 | .01910 | -.00233 | .87742 | .01118 | .00000 | -.00931 | 474.36 | .00219 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01746** | **.01202** | **.05554** | **20.934** | **.13736** | **184.26** | **.00167** | **.03529** | **183.22** | **.00358** |
| Stddev | .00016 | .00046 | .00329 | .090 | .00130 | 2.84 | .00001 | .00016 | .46 | .00014 |
| %RSD | .89048 | 3.8640 | 5.9296 | .43083 | .94921 | 1.5432 | .36363 | .46356 | .25109 | 3.9245 |
| #1 | .01735 | .01169 | .05787 | 20.871 | .13828 | 186.27 | .00167 | .03518 | 182.90 | .00348 |
| #2 | .01757 | .01235 | .05322 | 20.998 | .13643 | 182.25 | .00167 | .03541 | 183.55 | .00367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22668** | **-.00234** | F **683.96** | **.00144** | **.00814** | **6.8726** | **14.707** | **.00056** | W **10.227** | **-.00396** |
| Stddev | .00082 | .00041 | 2.22 | .00138 | .00365 | .0216 | .046 | .00035 | .253 | .00110 |
| %RSD | .36248 | 17.680 | .32422 | 95.918 | 44.827 | .31483 | .31483 | 61.706 | 2.4739 | 27.829 |
| #1 | .22610 | -.00263 | 682.39 | .00046 | .00556 | 6.8573 | 14.675 | .00081 | 10.049 | -.00473 |
| #2 | .22727 | -.00205 | 685.52 | .00242 | .01073 | 6.8879 | 14.740 | .00032 | 10.406 | -.00318 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00092** | **-.04934** | **.00379** | **.00907** | **-.00130** |
| Stddev | .00021 | .00060 | .03083 | .00055 | .00079 | .00171 |
| %RSD | 54.257 | 64.638 | 62.476 | 14.474 | 8.6677 | 131.86 |
| #1 | .00054 | .00135 | -.02754 | .00340 | .00962 | -.00009 |
| #2 | .00024 | .00050 | -.07114 | .00418 | .00851 | -.00251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6949.5** | **68799.** | **6919.0** |
| Stddev | 65.7 | 266. | 67.7 |
| %RSD | .94551 | .38669 | .97799 |
| #1 | 6903.0 | 68610. | 6966.8 |
| #2 | 6996.0 | 68987. | 6871.1 |

Sample Name: 280-42506-g-9-b  Acquired: 5/24/2013 0:09:20  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00078** | **.01123** | **.08434** | W **31.231** | **.02415** | **.00003** | **-.01126** | W **556.33** | **.00089** | **-.00044** |
| Stddev | .00041 | .00012 | .00117 | .061 | .00002 | .00008 | .00131 | 12.60 | .00038 | .00020 |
| %RSD | 53.119 | 1.0720 | 1.3917 | .19553 | .06722 | 293.30 | 11.648 | 2.2653 | 42.270 | 46.095 |
| #1 | -.00049 | .01114 | .08351 | 31.274 | .02413 | .00008 | -.01219 | 565.24 | .00115 | -.00029 |
| #2 | -.00107 | .01131 | .08517 | 31.188 | .02416 | -.00003 | -.01034 | 547.41 | .00062 | -.00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | 500.00 | | |
| Low Limit | | | | -.01000 | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00170** | **.00171** | **.11360** | **49.489** | W **4.2885** | **213.18** | **.54887** | **.02733** | W **2345.3** | **.00142** |
| Stddev | .00014 | .00004 | .00030 | .108 | .0193 | 2.47 | .00206 | .00012 | 3.3 | .00013 |
| %RSD | 8.3773 | 2.4282 | .26618 | .21849 | .44962 | 1.1580 | .37522 | .43104 | .14152 | 9.3130 |
| #1 | .00180 | .00174 | .11338 | 49.413 | 4.3021 | 211.43 | .54741 | .02742 | 2347.6 | .00151 |
| #2 | .00160 | .00168 | .11381 | 49.566 | 4.2748 | 214.92 | .55033 | .02725 | 2342.9 | .00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 2.0000 | | | | 500.00 | |
| Low Limit | | | | | -.01000 | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26717** | **-.00206** | F **1049.5** | **.00051** | **.00232** | **8.9973** | **19.254** | **.00014** | W **11.212** | **-.00399** |
| Stddev | .00019 | .00102 | 1.5 | .00160 | .00651 | .0229 | .049 | .00005 | .183 | .00327 |
| %RSD | .06937 | 49.415 | .13842 | 313.10 | 280.49 | .25420 | .25420 | 34.973 | 1.6306 | 81.994 |
| #1 | .26731 | -.00134 | 1050.5 | .00164 | .00693 | 8.9811 | 19.220 | .00010 | 11.341 | -.00630 |
| #2 | .26704 | -.00278 | 1048.4 | -.00062 | -.00228 | 9.0134 | 19.289 | .00017 | 11.083 | -.00168 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00073** | **.00768** | **.00256** | **.00666** | **-.00269** |
| Stddev | .00021 | .00129 | .00060 | .00029 | .00064 | .00050 |
| %RSD | 101.13 | 176.99 | 7.8418 | 11.299 | 9.5782 | 18.546 |
| #1 | .00036 | -.00018 | .00811 | .00277 | .00711 | -.00233 |
| #2 | .00006 | .00164 | .00726 | .00236 | .00621 | -.00304 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6356.4** | **63511.** | **6753.7** |
| Stddev | 18.2 | 106. | 21.9 |
| %RSD | .28703 | .16621 | .32420 |
| #1 | 6343.5 | 63585. | 6738.2 |
| #2 | 6369.3 | 63436. | 6769.2 |

Sample Name: 280-42506-g-10-b  Acquired: 5/24/2013 0:12:35  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00136** | **.08122** | **.09868** | W **11.807** | **.01173** | **-.00006** | **-.01116** | **479.16** | **.00087** | **.00010** |
| Stddev | .00014 | .00141 | .00169 | .007 | .00026 | .00003 | .00047 | 4.35 | .00004 | .00011 |
| %RSD | 10.045 | 1.7349 | 1.7117 | .06202 | 2.2037 | 39.801 | 4.2572 | .90714 | 4.6345 | 113.16 |
| #1 | -.00127 | .08222 | .09987 | 11.812 | .01192 | -.00005 | -.01149 | 482.23 | .00090 | .00002 |
| #2 | -.00146 | .08023 | .09748 | 11.802 | .01155 | -.00008 | -.01082 | 476.09 | .00084 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | | | |
| Low Limit | | | | -.01000 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12207** | **.03238** | **.72945** | **51.344** | **1.7154** | **190.96** | **.00744** | **.25717** | W **725.18** | **.04798** |
| Stddev | .00015 | .00020 | .00872 | .111 | .0010 | 2.15 | .00010 | .00046 | .55 | .00001 |
| %RSD | .12336 | .61688 | 1.1958 | .21581 | .05541 | 1.1281 | 1.3820 | .18041 | .07551 | .01674 |
| #1 | .12217 | .03252 | .73562 | 51.422 | 1.7161 | 192.48 | .00737 | .25750 | 725.57 | .04799 |
| #2 | .12196 | .03223 | .72328 | 51.266 | 1.7147 | 189.44 | .00751 | .25684 | 724.79 | .04798 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22792** | **.00032** | F **898.90** | **.00413** | **.00448** | **5.2490** | **11.233** | **.00036** | W **9.6020** | **-.00286** |
| Stddev | .00107 | .00143 | 1.33 | .00004 | .00158 | .0011 | .002 | .00014 | .1176 | .00151 |
| %RSD | .47000 | 443.58 | .14836 | .85922 | 35.320 | .02072 | .02072 | 38.838 | 1.2242 | 52.689 |
| #1 | .22867 | .00134 | 899.84 | .00410 | .00336 | 5.2483 | 11.231 | .00026 | 9.6851 | -.00392 |
| #2 | .22716 | -.00069 | 897.96 | .00415 | .00560 | 5.2498 | 11.235 | .00046 | 9.5188 | -.00179 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00247** | **-.00034** | **-.01958** | **.00289** | **.00887** | **-.00124** |
| Stddev | .00003 | .00008 | .02667 | .00058 | .00064 | .00051 |
| %RSD | 1.2265 | 23.980 | 136.22 | 20.130 | 7.2199 | 41.254 |
| #1 | .00244 | -.00028 | -.00072 | .00330 | .00932 | -.00160 |
| #2 | .00249 | -.00040 | -.03843 | .00248 | .00841 | -.00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6848.6** | **69043.** | **7338.1** |
| Stddev | 66.8 | 761. | 111.2 |
| %RSD | .97604 | 1.1027 | 1.5157 |
| #1 | 6895.9 | 68505. | 7259.5 |
| #2 | 6801.4 | 69581. | 7416.7 |

Sample Name: 280-42506-g-11-b  Acquired: 5/24/2013 0:15:44  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **.00305** | **.08278** | W **34.936** | **.02904** | **.00000** | **-.01040** | W **697.16** | **.00116** | **-.00042** |
| Stddev | .00000 | .00005 | .00296 | .340 | .00038 | .0000 | .00406 | 9.95 | .00005 | .00005 |
| %RSD | .33881 | 1.5307 | 3.5784 | .97402 | 1.3218 | 974.75 | 39.084 | 1.4270 | 4.6530 | 11.006 |
| #1 | -.00108 | .00308 | .08487 | 35.176 | .02931 | .00002 | -.00752 | 704.19 | .00112 | -.00038 |
| #2 | -.00108 | .00301 | .08068 | 34.695 | .02877 | -.00003 | -.01327 | 690.12 | .00119 | -.00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | 500.00 | | |
| Low Limit | | | | -.01000 | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00086** | **.55302** | **81.539** | W **7.2521** | **315.47** | **.42188** | **.03238** | W **7145.6** | **.00093** |
| Stddev | .00016 | .00035 | .00800 | .312 | .0574 | 1.88 | .00248 | .00037 | 84.7 | .00031 |
| %RSD | 35.506 | 40.214 | 1.4470 | .38257 | .79118 | .59545 | .58702 | 1.1276 | 1.1857 | 33.559 |
| #1 | .00034 | .00111 | .55868 | 81.318 | 7.2927 | 316.80 | .42013 | .03264 | 7205.5 | .00071 |
| #2 | .00057 | .00062 | .54736 | 81.760 | 7.2115 | 314.14 | .42363 | .03213 | 7085.7 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 2.0000 | | | | 500.00 | |
| Low Limit | | | | | -.01000 | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15244** | **.00094** | F **1519.9** | **.00015** | **-.00172** | **8.2383** | **17.630** | **-.00071** | W **14.967** | **-.00600** |
| Stddev | .00162 | .00150 | 28.7 | .00013 | .00048 | .1070 | .229 | .00004 | .690 | .00238 |
| %RSD | 1.0648 | 158.70 | 1.8883 | 89.833 | 28.098 | 1.2982 | 1.2982 | 6.1813 | 4.6070 | 39.721 |
| #1 | .15359 | -.00012 | 1540.2 | .00005 | -.00206 | 8.3139 | 17.792 | -.00068 | 15.454 | -.00432 |
| #2 | .15129 | .00200 | 1499.6 | .00024 | -.00138 | 8.1627 | 17.468 | -.00075 | 14.479 | -.00769 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00006** | **-.03983** | **.00318** | **.01238** | **.00157** |
| Stddev | .00072 | .00068 | .03711 | .00021 | .00015 | .00014 |
| %RSD | 347.50 | 1194.1 | 93.166 | 6.6649 | 1.1956 | 8.9511 |
| #1 | -.00030 | -.00042 | -.06607 | .00333 | .01227 | .00167 |
| #2 | .00072 | .00054 | -.01359 | .00303 | .01248 | .00147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5661.1** | **55961.** | **6924.4** |
| Stddev | 26.5 | 89. | 292.9 |
| %RSD | .46758 | .15976 | 4.2304 |
| #1 | 5642.4 | 55898. | 6717.3 |
| #2 | 5679.8 | 56025. | 7131.6 |

Sample Name: 280-42540-k-1-b  Acquired: 5/24/2013 0:19:05  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **.07229** | **-.00103** | **.09208** | **.01523** | **-.00003** | **-.00299** | **13.947** | **.00016** | **.00016** |
| Stddev | .00013 | .00007 | .00141 | .00529 | .00008 | .00000 | .00536 | .062 | .00030 | .00002 |
| %RSD | 15.061 | .09208 | 136.74 | 5.7402 | .49475 | 1.1823 | 179.03 | .44122 | 190.95 | 13.406 |
| #1 | -.00099 | .07225 | -.00203 | .09581 | .01518 | -.00004 | .00080 | 13.904 | .00037 | .00018 |
| #2 | -.00080 | .07234 | -.00003 | .08834 | .01528 | -.00003 | -.00678 | 13.991 | -.00005 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00030** | **.87097** | **1.4908** | **.00490** | **2.5994** | **.03841** | **.00084** | **4.9989** | **.00050** |
| Stddev | .00019 | .00029 | .00209 | .0643 | .00242 | .0020 | .00014 | .00013 | .0219 | .00024 |
| %RSD | 66.819 | 97.544 | .24007 | 4.3146 | 49.266 | .07729 | .37685 | 15.144 | .43760 | 48.189 |
| #1 | .00015 | .00009 | .86949 | 1.5363 | .00661 | 2.5980 | .03830 | .00075 | 5.0144 | .00033 |
| #2 | .00042 | .00051 | .87245 | 1.4453 | .00319 | 2.6008 | .03851 | .00093 | 4.9835 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21474** | **-.00136** | **5.0509** | **-.00009** | **.00160** | **4.2040** | **8.9967** | **-.00014** | **.10829** | **.00170** |
| Stddev | .00019 | .00031 | .0374 | .00021 | .00105 | .0381 | .0816 | .00045 | .00055 | .00131 |
| %RSD | .09035 | 22.471 | .73951 | 231.28 | 65.283 | .90676 | .90676 | 327.55 | .50826 | 76.853 |
| #1 | .21487 | -.00114 | 5.0773 | -.00024 | .00086 | 4.1771 | 8.9390 | .00018 | .10790 | .00078 |
| #2 | .21460 | -.00157 | 5.0244 | .00006 | .00234 | 4.2310 | 9.0544 | -.00046 | .10868 | .00263 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **.00088** | **-.00368** | **.00055** | **.00426** | **.00144** |
| Stddev | .00020 | .00053 | .04278 | .00085 | .00020 | .00003 |
| %RSD | 13.351 | 60.426 | 1161.2 | 154.62 | 4.6291 | 1.9165 |
| #1 | .00160 | .00126 | -.03393 | -.00005 | .00412 | .00146 |
| #2 | .00133 | .00051 | .02657 | .00115 | .00440 | .00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8064.5** | **83159.** | **8030.7** |
| Stddev | 33.1 | 465. | 17.3 |
| %RSD | .41097 | .55867 | .21588 |
| #1 | 8088.0 | 83487. | 8042.9 |
| #2 | 8041.1 | 82830. | 8018.4 |

Sample Name: 280-42540-k-2-b  Acquired: 5/24/2013 0:21:21  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175558  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **.21793** | **-.00110** | **.06460** | **.05932** | **.00008** | **-.00332** | **20.436** | **.00012** | **-.00002** |
| Stddev | .00062 | .00260 | .00044 | .00255 | .00002 | .00003 | .00283 | .026 | .00016 | .00023 |
| %RSD | 163.76 | 1.1910 | 39.946 | 3.9473 | .04023 | 37.588 | 85.057 | .12838 | 140.81 | 1098.3 |
| #1 | -.00082 | .21609 | -.00079 | .06640 | .05930 | .00006 | -.00132 | 20.455 | .00000 | .00014 |
| #2 | .00006 | .21976 | -.00142 | .06279 | .05934 | .00010 | -.00532 | 20.417 | .00023 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **.00137** | **.57507** | **1.2195** | **.00127** | **3.4992** | **.03587** | **.00079** | **2.7693** | **.00036** |
| Stddev | .00011 | .00011 | .00168 | .0022 | .00116 | .0054 | .00006 | .00005 | .0138 | .00011 |
| %RSD | 22.603 | 8.2367 | .29233 | .17955 | 91.340 | .15445 | .16963 | 6.0267 | .49643 | 31.213 |
| #1 | .00057 | .00129 | .57388 | 1.2180 | .00210 | 3.5030 | .03591 | .00076 | 2.7790 | .00028 |
| #2 | .00041 | .00145 | .57626 | 1.2211 | .00045 | 3.4954 | .03583 | .00083 | 2.7596 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18949** | **-.00193** | **5.8070** | **.00121** | **.00300** | **3.4263** | **7.3323** | **-.00056** | **.12389** | **.00033** |
| Stddev | .00082 | .00079 | .0061 | .00137 | .00060 | .0087 | .0187 | .00004 | .00044 | .00160 |
| %RSD | .43249 | 41.231 | .10467 | 113.48 | 19.925 | .25474 | .25474 | 7.3228 | .35861 | 489.36 |
| #1 | .18891 | -.00249 | 5.8113 | .00024 | .00258 | 3.4325 | 7.3455 | -.00053 | .12358 | -.00080 |
| #2 | .19007 | -.00136 | 5.8028 | .00218 | .00343 | 3.4201 | 7.3191 | -.00058 | .12421 | .00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00637** | **.00055** | **.00648** | **.00085** | **.00513** | **-.00065** |
| Stddev | .00012 | .00196 | .00967 | .00035 | .00027 | .00127 |
| %RSD | 1.8968 | 354.49 | 149.16 | 41.696 | 5.2977 | 194.03 |
| #1 | .00628 | -.00083 | .01331 | .00060 | .00494 | -.00155 |
| #2 | .00645 | .00193 | -.00035 | .00110 | .00532 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7996.3** | **81957.** | **7799.1** |
| Stddev | 5.4 | 497. | 57.7 |
| %RSD | .06694 | .60690 | .74012 |
| #1 | 8000.0 | 81605. | 7758.2 |
| #2 | 7992.5 | 82308. | 7839.9 |

Sample Name: CCVH-2067278 Acquired: 5/24/2013 0:23:36 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00072** | **48.452** | **-.00180** | **.04935** | **.00027** | **.00000** | **.99768** | **.02629** | **.00016** | **.00038** | **.00002** | **.00003** | **49.599** |
| Stddev | .00039 | .171 | .00068 | .00020 | .00002 | .00001 | .00005 | .00483 | .00007 | .00034 | .00006 | .00040 | .411 |
| %RSD | 53.968 | .35263 | 37.553 | .40964 | 6.3541 | 1192.9 | .00525 | 18.382 | 40.416 | 88.208 | 266.68 | 1181.6 | .82943 |
| #1 | -.00099 | 48.331 | -.00228 | .04950 | .00028 | -.00001 | .99765 | .02971 | .00012 | .00014 | .00006 | .00032 | 49.308 |
| #2 | -.00045 | 48.573 | -.00132 | .04921 | .00026 | .00001 | .99772 | .02287 | .00021 | .00062 | -.00002 | -.00025 | 49.890 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30459** | **-.00074** | **.04594** | **.00000** | **-.00048** | **251.68** | **.00021** | **.00602** | **-.00199** | **4.9066** | **-.00090** | **.00499** | **.01508** |
| Stddev | .05838 | .00006 | .00614 | .0000 | .00024 | 1.39 | .00012 | .00141 | .00001 | .0135 | .00258 | .00287 | .02639 |
| %RSD | 19.168 | 8.7052 | 13.373 | 994.49 | 50.466 | .55352 | 57.107 | 23.450 | .68765 | .27428 | 288.47 | 57.405 | 175.05 |
| #1 | .34587 | -.00079 | .05028 | .00003 | -.00065 | 250.70 | .00029 | .00502 | -.00200 | 4.8971 | .00093 | .00702 | .03374 |
| #2 | .26330 | -.00070 | .04160 | -.00003 | -.00031 | 252.67 | .00012 | .00702 | -.00198 | 4.9161 | -.00272 | .00297 | -.00359 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03227** | **.00017** | **.00087** | **4.8175** | **.00161** | **.00018** | **10.239** | **-.00007** | **.00138** | **-.00319** |
| Stddev | .05648 | .00065 | .00020 | .0075 | .00037 | .00026 | .052 | .00013 | .00005 | .00215 |
| %RSD | 175.05 | 373.91 | 22.682 | .15639 | 23.048 | 148.03 | .50488 | 167.70 | 3.7544 | 67.397 |
| #1 | .07221 | .00063 | .00101 | 4.8122 | .00188 | .00036 | 10.203 | .00001 | .00142 | -.00167 |
| #2 | -.00767 | -.00029 | .00073 | 4.8228 | .00135 | -.00001 | 10.276 | -.00016 | .00135 | -.00470 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7430.8** | **76396.** | **7609.0** |
| Stddev | 86.0 | 163. | 16.9 |
| %RSD | 1.1567 | .21384 | .22255 |
| #1 | 7491.6 | 76512. | 7621.0 |
| #2 | 7370.1 | 76281. | 7597.1 |

Sample Name: CCV-2064677 Acquired: 5/24/2013 0:25:50 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50841** | **.51468** | **.99633** | **.54367** | **.49380** | **.47446** | **.00204** | **4.8716** | **.48779** | **.50144** | **.51222** | **.49956** | **2.4014** | **48.800** |
| Stddev | .00012 | .00026 | .00201 | .00040 | .00012 | .00067 | .00494 | .0245 | .00008 | .00017 | .00053 | .00096 | .0138 | .134 |
| %RSD | .02452 | .04962 | .20133 | .07286 | .02466 | .14028 | 241.58 | .50349 | .01577 | .03399 | .10357 | .19171 | .57260 | .27475 |
| #1 | .50850 | .51450 | .99491 | .54395 | .49371 | .47493 | -.00145 | 4.8889 | .48773 | .50132 | .51184 | .50023 | 2.4111 | 48.895 |
| #2 | .50832 | .51486 | .99775 | .54339 | .49388 | .47399 | .00553 | 4.8543 | .48784 | .50156 | .51259 | .49888 | 2.3917 | 48.705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95627** | **19.744** | **.49110** | **.50529** | **5.3488** | **.51615** | **.99870** | **.98139** | **.16119** | **.98525** | **1.0034** | **5.1554** | **11.033** | **1.0077** |
| Stddev | .00018 | .027 | .00000 | .00007 | .0137 | .00031 | .00814 | .00289 | .00723 | .00767 | .0003 | .0378 | .081 | .0019 |
| %RSD | .01860 | .13591 | .00069 | .01366 | .25574 | .06077 | .81481 | .29399 | 4.4879 | .77833 | .03075 | .73255 | .73255 | .18988 |
| #1 | .95639 | 19.725 | .49111 | .50524 | 5.3585 | .51593 | .99295 | .98343 | .15607 | .99067 | 1.0036 | 5.1287 | 10.976 | 1.0091 |
| #2 | .95614 | 19.763 | .49110 | .50534 | 5.3392 | .51637 | 1.0045 | .97935 | .16630 | .97983 | 1.0032 | 5.1821 | 11.090 | 1.0064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49199** | **.00175** | **.49820** | **1.0053** | **.00690** | **.47852** | **.50328** | **.49315** |
| Stddev | .00069 | .00105 | .00067 | .0011 | .02566 | .00210 | .00007 | .00439 |
| %RSD | .14095 | 60.240 | .13395 | .10715 | 371.63 | .43952 | .01297 | .88995 |
| #1 | .49248 | .00100 | .49867 | 1.0061 | -.01124 | .47703 | .50333 | .49005 |
| #2 | .49150 | .00249 | .49773 | 1.0045 | .02505 | .48001 | .50323 | .49625 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7843.0** | **79567.** | **7660.2** |
| Stddev | 36.6 | 94. | 12.2 |
| %RSD | .46697 | .11853 | .15939 |
| #1 | 7817.1 | 79501. | 7651.6 |
| #2 | 7868.9 | 79634. | 7668.8 |

Sample Name: CCB  Acquired: 5/24/2013 0:27:59  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.00023** | **-.00118** | F **.03466** | **-.00001** | **.00010** | **-.00192** | **.01356** | **.00005** | **.00012** | **.00002** | **-.00017** |
| Stddev | .00112 | .00019 | .00180 | .00000 | .00036 | .00011 | .00146 | .00212 | .00004 | .00001 | .00003 | .00017 |
| %RSD | 252.23 | 83.812 | 152.37 | .00952 | 7271.6 | 113.14 | 76.061 | 15.641 | 81.744 | 7.8508 | 209.33 | 103.33 |
| #1 | .00035 | .00009 | -.00245 | .03466 | .00025 | .00018 | -.00295 | .01506 | .00002 | .00011 | -.00001 | -.00029 |
| #2 | -.00123 | .00037 | .00009 | .03466 | -.00026 | .00002 | -.00089 | .01206 | .00007 | .00013 | .00004 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00829** | **.22728** | **.00243** | **.00533** | **.00008** | **.00038** | F **.44264** | **-.00004** | **.00073** | **-.00228** | **.15345** | W **.00475** |
| Stddev | .00175 | .00591 | .00165 | .00076 | .00002 | .00002 | .00929 | .00027 | .00096 | .00196 | .00134 | .00133 |
| %RSD | 21.058 | 2.6006 | 67.784 | 14.344 | 20.172 | 4.6983 | 2.0990 | 736.78 | 131.09 | 86.173 | .87010 | 28.001 |
| #1 | .00705 | .22310 | .00127 | .00587 | .00007 | .00039 | .44921 | .00016 | .00141 | -.00089 | .15439 | .00381 |
| #2 | .00952 | .23146 | .00360 | .00479 | .00009 | .00037 | .43607 | -.00023 | .00005 | -.00367 | .15250 | .00569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .18320 | | | | | .00314 |
| Low Limit | | | | | | | -.18320 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00577** | **.02378** | **.05090** | **.00029** | W **.00039** | **-.00037** | **-.00040** | **.00052** | **.01019** | **-.00012** | **.00237** | **-.00103** |
| Stddev | .00104 | .00903 | .01932 | .00003 | .00002 | .00030 | .00018 | .00068 | .04678 | .00020 | .00009 | .00055 |
| %RSD | 18.052 | 37.964 | 37.964 | 8.7614 | 5.4380 | 79.407 | 45.500 | 131.02 | 459.17 | 170.01 | 3.7230 | 53.625 |
| #1 | .00504 | .03017 | .06456 | .00028 | .00041 | -.00058 | -.00052 | .00100 | .04327 | .00002 | .00244 | -.00064 |
| #2 | .00651 | .01740 | .03724 | .00031 | .00038 | -.00016 | -.00027 | .00004 | -.02289 | -.00026 | .00231 | -.00141 |
| Check ? | Chk Warn | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00486 | | | | .00030 | | | | | | | |
| Low Limit | -.00486 | | | | -.00030 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7759.0** | **80156.** | **7662.7** |
| Stddev | 13.0 | 170. | .8 |
| %RSD | .16784 | .21214 | .01052 |
| #1 | 7768.2 | 80035. | 7662.1 |
| #2 | 7749.8 | 80276. | 7663.3 |

Sample Name: CCVL2067279[illegible] Acquired: 5/24/2013 0:30:14 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00950** | **.10750** | **.01319** | F **.13092** | **.01033** | **.00099** | **.11664** | **.20314** | **.00520** | **.01075** | **.01072** | **.01542** | **.09635** |
| Stddev | .00019 | .00011 | .00144 | .00006 | .00020 | .00005 | .00038 | .00518 | .00007 | .00014 | .00014 | .00048 | .00075 |
| %RSD | 1.9649 | .09781 | 10.948 | .04639 | 1.9524 | 4.7901 | .32176 | 2.5498 | 1.3439 | 1.2827 | 1.3207 | 3.0856 | .77962 |
| #1 | .00963 | .10742 | .01421 | .13088 | .01019 | .00095 | .11690 | .19948 | .00525 | .01065 | .01062 | .01509 | .09689 |
| #2 | .00937 | .10757 | .01217 | .13097 | .01047 | .00102 | .11637 | .20681 | .00515 | .01085 | .01082 | .01576 | .09582 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .10000 | | | | | | | | | |
| Range | | | | 30.000% | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1309** | **.01087** | **.21194** | **.01024** | **.02060** | F **1.3710** | **.04290** | **2.9529** | **.00881** | **.12039** | **.01155** | **.01787** | **.53284** |
| Stddev | .0604 | .00055 | .00050 | .00002 | .00024 | .0001 | .00001 | .0042 | .00082 | .00145 | .00064 | .00412 | .00655 |
| %RSD | 1.9277 | 5.0889 | .23510 | .22207 | 1.1643 | .00911 | .01472 | .14271 | 9.3081 | 1.2026 | 5.5556 | 23.075 | 1.2289 |
| #1 | 3.0882 | .01126 | .21159 | .01025 | .02077 | 1.3709 | .04289 | 2.9499 | .00939 | .12141 | .01110 | .01496 | .52821 |
| #2 | 3.1736 | .01047 | .21229 | .01022 | .02043 | 1.3711 | .04290 | 2.9559 | .00823 | .11937 | .01201 | .02079 | .53747 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1403** | **.10339** | **.01013** | **.01491** | **.00945** | **.01635** | F **.08578** | **.00902** | **.02298** | **.01252** |
| Stddev | .0140 | .00113 | .00010 | .00124 | .00004 | .00038 | .02057 | .00021 | .00034 | .00234 |
| %RSD | 1.2289 | 1.0920 | .94473 | 8.3360 | .41560 | 2.3331 | 23.983 | 2.3778 | 1.4782 | 18.657 |
| #1 | 1.1304 | .10259 | .01006 | .01579 | .00942 | .01662 | .07124 | .00886 | .02274 | .01087 |
| #2 | 1.1502 | .10419 | .01020 | .01403 | .00948 | .01608 | .10033 | .00917 | .02322 | .01417 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7959.3** | **81847.** | **7782.9** |
| Stddev | 8.2 | 243. | 86.7 |
| %RSD | .10263 | .29641 | 1.1143 |
| #1 | 7965.0 | 81675. | 7721.5 |
| #2 | 7953.5 | 82018. | 7844.2 |

Sample Name: mb 280-175557/1-a  Acquired: 5/24/2013 0:32:31  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00104** | **.00926** | **.00011** | **.02440** | **.00017** | **.00002** | **-.00040** | **.00935** | **.00006** | **.00017** |
| Stddev | .00070 | .00016 | .00092 | .00122 | .00002 | .00000 | .00011 | .00040 | .00019 | .00011 |
| %RSD | 67.639 | 1.7760 | 812.08 | 5.0084 | 11.795 | 4.8586 | 28.177 | 4.2951 | 296.79 | 67.273 |
| #1 | -.00153 | .00937 | -.00054 | .02527 | .00018 | .00002 | -.00048 | .00964 | -.00007 | .00025 |
| #2 | -.00054 | .00914 | .00076 | .02354 | .00015 | .00002 | -.00032 | .00907 | .00020 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **-.00005** | **.01444** | **.21155** | **.00189** | **.00484** | **.00016** | **.00006** | **.33291** | **.00006** |
| Stddev | .00008 | .00019 | .00609 | .15430 | .00005 | .00299 | .00001 | .00011 | .03219 | .00045 |
| %RSD | 37.369 | 354.41 | 42.161 | 72.936 | 2.7303 | 61.836 | 8.7809 | 186.95 | 9.6704 | 794.73 |
| #1 | .00028 | .00008 | .01874 | .10245 | .00185 | .00695 | .00017 | -.00002 | .31015 | -.00026 |
| #2 | .00016 | -.00019 | .01013 | .32066 | .00192 | .00272 | .00015 | .00013 | .35568 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16570** | **-.00118** | F **.11168** | **.00040** | **.00003** | **.05939** | **.12709** | **-.00009** | **.00013** | **.00010** |
| Stddev | .00029 | .00119 | .00254 | .00223 | .00002 | .01135 | .02430 | .00040 | .00007 | .00018 |
| %RSD | .17458 | 100.89 | 2.2713 | 560.09 | 68.939 | 19.120 | 19.120 | 453.31 | 55.558 | 181.14 |
| #1 | .16591 | -.00202 | .11348 | .00198 | .00004 | .06741 | .14427 | -.00037 | .00008 | .00023 |
| #2 | .16550 | -.00034 | .10989 | -.00118 | .00001 | .05136 | .10990 | .00019 | .00019 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .10000 | | | | | | | |
| Low Limit | | | -.10000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00052** | **.04889** | **.00000** | **.00231** | **-.00057** |
| Stddev | .00002 | .00040 | .01714 | .0001 | .00021 | .00174 |
| %RSD | 36.216 | 76.702 | 35.060 | 3371.7 | 8.9126 | 307.23 |
| #1 | -.00006 | .00080 | .06101 | .00005 | .00245 | -.00180 |
| #2 | -.00004 | .00024 | .03677 | -.00005 | .00216 | .00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7969.2** | **82539.** | **7785.9** |
| Stddev | 12.9 | 692. | 38.9 |
| %RSD | .16144 | .83859 | .50021 |
| #1 | 7978.3 | 82049. | 7758.3 |
| #2 | 7960.1 | 83028. | 7813.4 |

Sample Name: lcs 280-175557/2-a  Acquired: 5/24/2013 0:34:46  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .05101 | 1.9722 | 1.0168 | 1.0708 | 2.0041 | .04836 | 2.1843 | 49.268 | .10043 | .49500 |
| Stddev | .00023 | .0008 | .0034 | .0016 | .0033 | .00005 | .0042 | .067 | .00005 | .00041 |
| %RSD | .44705 | .04275 | .32996 | .15230 | .16405 | .09473 | .19403 | .13628 | .04773 | .08381 |
| #1 | .05117 | 1.9728 | 1.0192 | 1.0720 | 2.0018 | .04833 | 2.1813 | 49.315 | .10039 | .49530 |
| #2 | .05085 | 1.9716 | 1.0145 | 1.0697 | 2.0064 | .04839 | 2.1873 | 49.220 | .10046 | .49471 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .20688 | .25122 | .98709 | 49.601 | .95052 | 49.665 | .49230 | 1.0579 | 52.476 | .51060 |
| Stddev | .00070 | .00105 | .00191 | .086 | .00056 | .123 | .00013 | .0002 | .359 | .00100 |
| %RSD | .33662 | .41622 | .19346 | .17249 | .05848 | .24864 | .02676 | .02103 | .68474 | .19500 |
| #1 | .20639 | .25048 | .98844 | 49.541 | .95013 | 49.578 | .49239 | 1.0581 | 52.222 | .50989 |
| #2 | .20738 | .25196 | .98574 | 49.662 | .95092 | 49.753 | .49220 | 1.0578 | 52.730 | .51130 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.501 | .48971 | .09513 | .53429 | 2.0595 | 10.899 | 23.325 | 2.0712 | .99784 | 1.0033 |
| Stddev | .008 | .00071 | .00455 | .00009 | .0043 | .031 | .067 | .0022 | .00103 | .0020 |
| %RSD | .07216 | .14546 | 4.7878 | .01673 | .21048 | .28579 | .28579 | .10764 | .10369 | .19944 |
| #1 | 10.506 | .49022 | .09191 | .53422 | 2.0564 | 10.877 | 23.277 | 2.0728 | .99710 | 1.0019 |
| #2 | 10.495 | .48921 | .09835 | .53435 | 2.0625 | 10.921 | 23.372 | 2.0696 | .99857 | 1.0047 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0439 | 1.9651 | 2.1900 | .49085 | .50604 | .51850 |
| Stddev | .0028 | .0024 | .0061 | .00082 | .00055 | .00333 |
| %RSD | .26872 | .12400 | .27735 | .16636 | .10901 | .64272 |
| #1 | 1.0459 | 1.9668 | 2.1943 | .49028 | .50565 | .51615 |
| #2 | 1.0420 | 1.9634 | 2.1857 | .49143 | .50643 | .52086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 7605.3 | 77177. | 7645.9 |
| Stddev | 15.1 | 10. | 4.8 |
| %RSD | .19865 | .01312 | .06231 |
| #1 | 7594.6 | 77170. | 7642.5 |
| #2 | 7616.0 | 77185. | 7649.3 |

Sample Name: 280-42520-b-2-b  Acquired: 5/24/2013 0:36:53  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00112** | **.00375** | **-.00163** | **.26401** | **.04980** | **.00012** | **-.00525** | **93.860** | **.00057** | **.00025** |
| Stddev | .00067 | .00010 | .00246 | .00000 | .00070 | .00001 | .00025 | .459 | .00038 | .00026 |
| %RSD | 59.631 | 2.6564 | 151.38 | .00119 | 1.3969 | 12.499 | 4.7510 | .48946 | 65.922 | 104.70 |
| #1 | -.00160 | .00368 | -.00337 | .26401 | .04931 | .00011 | -.00507 | 93.535 | .00084 | .00044 |
| #2 | -.00065 | .00383 | .00011 | .26402 | .05029 | .00013 | -.00542 | 94.185 | .00031 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.02297** | **.01492** | **3.2181** | **.01626** | **22.923** | **.05679** | **.00274** | **55.727** | **.00172** |
| Stddev | .00006 | .00068 | .00108 | .0026 | .00350 | .028 | .00006 | .00006 | .313 | .00010 |
| %RSD | 5.8048 | 2.9617 | 7.2600 | .08180 | 21.533 | .12375 | .10035 | 2.0162 | .56109 | 5.8822 |
| #1 | .00107 | .02249 | .01568 | 3.2200 | .01378 | 22.943 | .05683 | .00278 | 55.506 | .00164 |
| #2 | .00098 | .02345 | .01415 | 3.2163 | .01874 | 22.903 | .05675 | .00270 | 55.948 | .00179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17616** | **.00265** | **36.179** | **-.00093** | **.00950** | **10.784** | **23.077** | **.00079** | **.60938** | **-.00034** |
| Stddev | .00182 | .00137 | .077 | .00041 | .00665 | .004 | .009 | .00031 | .00235 | .00023 |
| %RSD | 1.0359 | 51.704 | .21279 | 44.074 | 69.981 | .03853 | .03853 | 39.898 | .38560 | 68.544 |
| #1 | .17745 | .00168 | 36.124 | -.00064 | .01420 | 10.787 | 23.083 | .00057 | .60771 | -.00017 |
| #2 | .17487 | .00362 | 36.233 | -.00123 | .00480 | 10.781 | 23.071 | .00101 | .61104 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.00185** | **.01162** | **.00105** | **.02230** | **.00043** |
| Stddev | .00003 | .00020 | .00553 | .00030 | .00024 | .00220 |
| %RSD | 12.502 | 10.893 | 47.586 | 28.343 | 1.0974 | 511.44 |
| #1 | -.00021 | .00171 | .00771 | .00126 | .02248 | .00199 |
| #2 | -.00025 | .00199 | .01552 | .00084 | .02213 | -.00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7568.8** | **76652.** | **7631.9** |
| Stddev | 32.2 | 82. | 41.0 |
| %RSD | .42580 | .10735 | .53676 |
| #1 | 7546.0 | 76710. | 7660.9 |
| #2 | 7591.6 | 76593. | 7603.0 |

Sample Name: 280-42520-b-2-bSD@5 Acquired: 5/24/2013 0:39:10 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175557 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00119** | **.00287** | **-.00166** | **.07993** | **.01213** | **.00000** | **.00014** | **23.233** | **.00015** | **.00007** |
| Stddev | .00027 | .00007 | .00256 | .00042 | .00002 | .00002 | .00078 | .021 | .00026 | .00004 |
| %RSD | 22.542 | 2.2883 | 154.18 | .52801 | .19645 | 1194.3 | 566.57 | .09179 | 170.02 | 58.348 |
| #1 | -.00139 | .00283 | .00015 | .08023 | .01212 | .00002 | .00069 | 23.248 | -.00003 | .00010 |
| #2 | -.00100 | .00292 | -.00348 | .07963 | .01215 | -.00002 | -.00041 | 23.218 | .00033 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00008** | **.02172** | **.90413** | **.00311** | **5.7854** | **.01436** | **.00062** | **13.473** | **.00019** |
| Stddev | .00011 | .00007 | .00204 | .05466 | .00371 | .0192 | .00003 | .00024 | .091 | .00009 |
| %RSD | 23.427 | 95.557 | 9.3992 | 6.0458 | 119.17 | .33248 | .20401 | 38.370 | .67213 | 48.768 |
| #1 | .00056 | .00002 | .02317 | .86548 | .00573 | 5.7718 | .01438 | .00079 | 13.537 | .00026 |
| #2 | .00040 | .00013 | .02028 | .94279 | .00049 | 5.7990 | .01434 | .00045 | 13.409 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04087** | **-.00108** | **8.8466** | **-.00058** | **.00351** | **2.6637** | **5.7003** | **.00045** | **.15210** | **-.00011** |
| Stddev | .00009 | .00097 | .0087 | .00117 | .00161 | .0343 | .0733 | .00037 | .00002 | .00071 |
| %RSD | .23099 | 89.832 | .09865 | 200.82 | 45.971 | 1.2866 | 1.2866 | 82.014 | .01301 | 633.10 |
| #1 | .04093 | -.00039 | 8.8528 | .00025 | .00237 | 2.6395 | 5.6485 | .00071 | .15211 | .00039 |
| #2 | .04080 | -.00176 | 8.8405 | -.00142 | .00465 | 2.6879 | 5.7522 | .00019 | .15209 | -.00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **.00128** | **.02851** | **-.00026** | **.02248** | **-.00076** |
| Stddev | .00006 | .00036 | .00114 | .00004 | .00014 | .00147 |
| %RSD | 9.6457 | 28.478 | 4.0048 | 14.195 | .61813 | 194.13 |
| #1 | -.00068 | .00154 | .02770 | -.00029 | .02238 | -.00180 |
| #2 | -.00059 | .00102 | .02931 | -.00023 | .02257 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7849.8** | **80225.** | **7838.2** |
| Stddev | 12.8 | 262. | 38.8 |
| %RSD | .16246 | .32703 | .49506 |
| #1 | 7858.8 | 80410. | 7865.7 |
| #2 | 7840.8 | 80039. | 7810.8 |

Sample Name: 280-42520-b-2-c ms  Acquired: 5/24/2013 0:41:27  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04761** | **1.7767** | **.94296** | **1.2184** | **1.8854** | **.04452** | F **1.9831** | **142.40** | **.09152** | **.44300** |
| Stddev | .00075 | .0009 | .00248 | .0005 | .0006 | .00029 | .0001 | .03 | .00005 | .00003 |
| %RSD | 1.5780 | .04833 | .26347 | .04260 | .03356 | .65890 | .00719 | .01884 | .05310 | .00605 |
| #1 | .04814 | 1.7761 | .94472 | 1.2187 | 1.8849 | .04472 | 1.9830 | 142.42 | .09155 | .44301 |
| #2 | .04708 | 1.7773 | .94120 | 1.2180 | 1.8858 | .04431 | 1.9832 | 142.38 | .09148 | .44298 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18847** | **.22896** | **.88940** | **48.420** | **.88623** | **69.124** | **.50537** | **.96036** | **106.60** | **.45962** |
| Stddev | .00020 | .00075 | .00208 | .091 | .00051 | .495 | .00287 | .00078 | .02 | .00043 |
| %RSD | .10861 | .32685 | .23379 | .18895 | .05788 | .71676 | .56778 | .08150 | .01906 | .09351 |
| #1 | .18861 | .22949 | .89088 | 48.484 | .88586 | 69.474 | .50740 | .96092 | 106.61 | .45992 |
| #2 | .18832 | .22844 | .88793 | 48.355 | .88659 | 68.773 | .50334 | .95981 | 106.59 | .45931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.7582** | **.43688** | **37.822** | **.48807** | **1.8972** | **21.224** | **45.419** | **1.8735** | **1.5561** | **.91806** |
| Stddev | .0097 | .00098 | .019 | .00237 | .0019 | .118 | .252 | .0018 | .0019 | .00607 |
| %RSD | .09962 | .22541 | .04946 | .48640 | .09981 | .55376 | .55376 | .09815 | .12011 | .66082 |
| #1 | 9.7513 | .43757 | 37.809 | .48975 | 1.8959 | 21.141 | 45.241 | 1.8722 | 1.5574 | .92235 |
| #2 | 9.7651 | .43618 | 37.836 | .48639 | 1.8986 | 21.307 | 45.597 | 1.8748 | 1.5548 | .91377 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95038** | **1.7264** | **2.0261** | **.45221** | **.46478** | **.46967** |
| Stddev | .00631 | .0016 | .0295 | .00142 | .00449 | .00565 |
| %RSD | .66345 | .09330 | 1.4542 | .31502 | .96588 | 1.2023 |
| #1 | .95484 | 1.7275 | 2.0469 | .45322 | .46795 | .46568 |
| #2 | .94592 | 1.7253 | 2.0053 | .45120 | .46160 | .47367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7531.2** | **75884.** | **7699.7** |
| Stddev | 4.8 | 67. | 24.0 |
| %RSD | .06323 | .08787 | .31123 |
| #1 | 7527.8 | 75837. | 7716.7 |
| #2 | 7534.6 | 75931. | 7682.8 |

Sample Name: 280-42520-b-2-d msd  Acquired: 5/24/2013 0:43:33  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04298** | **1.6243** | **.85183** | **1.1111** | **1.6925** | **.04031** | F **1.8001** | **128.00** | **.08366** | **.40271** |
| Stddev | .00175 | .0046 | .00303 | .0015 | .0040 | .00008 | .0023 | .29 | .00041 | .00050 |
| %RSD | 4.0598 | .28462 | .35519 | .13371 | .23391 | .19026 | .12873 | .22420 | .49276 | .12371 |
| #1 | .04175 | 1.6210 | .84969 | 1.1101 | 1.6897 | .04026 | 1.7984 | 127.80 | .08337 | .40236 |
| #2 | .04422 | 1.6276 | .85397 | 1.1122 | 1.6953 | .04037 | 1.8017 | 128.21 | .08395 | .40306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17062** | **.20717** | **.80006** | **43.552** | **.80241** | **62.463** | **.45608** | **.87166** | **95.179** | **.41679** |
| Stddev | .00013 | .00012 | .00155 | .181 | .00407 | .060 | .00045 | .00174 | .641 | .00168 |
| %RSD | .07907 | .05957 | .19359 | .41518 | .50660 | .09597 | .09933 | .19993 | .67363 | .40311 |
| #1 | .17052 | .20709 | .80116 | 43.424 | .79954 | 62.505 | .45640 | .87043 | 94.726 | .41561 |
| #2 | .17071 | .20726 | .79897 | 43.680 | .80529 | 62.420 | .45576 | .87289 | 95.633 | .41798 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.8596** | **.39737** | **34.363** | **.44504** | **1.7189** | **19.197** | **41.082** | **1.7017** | **1.3984** | **.82745** |
| Stddev | .0321 | .00171 | .038 | .00190 | .0083 | .057 | .122 | .0074 | .0026 | .00124 |
| %RSD | .36276 | .43038 | .10964 | .42709 | .48178 | .29690 | .29690 | .43695 | .18749 | .15012 |
| #1 | 8.8368 | .39616 | 34.336 | .44638 | 1.7131 | 19.157 | 40.996 | 1.6965 | 1.3965 | .82833 |
| #2 | 8.8823 | .39858 | 34.389 | .44370 | 1.7248 | 19.238 | 41.169 | 1.7070 | 1.4002 | .82657 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85760** | **1.5787** | **1.8460** | **.40810** | **.42197** | **.42391** |
| Stddev | .00073 | .0000 | .0158 | .00103 | .00054 | .00331 |
| %RSD | .08472 | .00238 | .85508 | .25266 | .12748 | .77977 |
| #1 | .85708 | 1.5787 | 1.8348 | .40737 | .42159 | .42158 |
| #2 | .85811 | 1.5786 | 1.8572 | .40883 | .42235 | .42625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7525.5** | **75985.** | **7709.7** |
| Stddev | 17.5 | 177. | 5.3 |
| %RSD | .23249 | .23301 | .06912 |
| #1 | 7537.9 | 75860. | 7706.0 |
| #2 | 7513.1 | 76110. | 7713.5 |

Sample Name: CCVH-2067278 Acquired: 5/24/2013 0:45:39 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00111** | **49.229** | **-.00073** | **.01951** | **.00044** | **.00006** | **1.0197** | **-.00045** | **.00023** | **.00052** | **.00011** | **-.00077** |
| Stddev | .00063 | .155 | .00113 | .00093 | .00040 | .00002 | .0056 | .00121 | .00009 | .00026 | .00003 | .00068 |
| %RSD | 56.541 | .31416 | 154.88 | 4.7621 | 90.461 | 32.308 | .54908 | 268.84 | 39.293 | 50.669 | 28.317 | 87.565 |
| #1 | -.00067 | 49.120 | .00007 | .02016 | .00072 | .00005 | 1.0237 | .00041 | .00017 | .00070 | .00009 | -.00029 |
| #2 | -.00156 | 49.339 | -.00153 | .01885 | .00016 | .00008 | 1.0158 | -.00130 | .00030 | .00033 | .00013 | -.00125 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.835** | **.24512** | **.00440** | **.04525** | **-.00007** | **.00037** | **256.63** | **.00020** | **.00444** | **-.00330** | **4.8907** | **.00025** |
| Stddev | .262 | .07051 | .00194 | .00171 | .00004 | .00008 | .52 | .00031 | .00119 | .00095 | .0048 | .00007 |
| %RSD | .51464 | 28.764 | 44.013 | 3.7856 | 50.063 | 22.572 | .20114 | 156.82 | 26.893 | 28.656 | .09812 | 29.119 |
| #1 | 50.650 | .29497 | .00303 | .04646 | -.00010 | .00031 | 256.27 | -.00002 | .00528 | -.00263 | 4.8873 | .00030 |
| #2 | 51.019 | .19526 | .00577 | .04404 | -.00005 | .00043 | 257.00 | .00042 | .00360 | -.00397 | 4.8941 | .00020 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00461** | **.02496** | **.05341** | **.00073** | **.00039** | **4.9730** | **.00275** | **.00249** | W **10.718** | **-.00049** | **.00145** | **-.00672** |
| Stddev | .00416 | .02840 | .06078 | .00022 | .00001 | .0063 | .00038 | .00071 | .061 | .00026 | .00019 | .00074 |
| %RSD | 90.432 | 113.80 | 113.80 | 30.033 | 1.3948 | .12590 | 13.654 | 28.660 | .56468 | 53.270 | 13.414 | 10.954 |
| #1 | .00166 | .04504 | .09639 | .00088 | .00038 | 4.9686 | .00302 | .00198 | 10.761 | -.00031 | .00159 | -.00620 |
| #2 | .00755 | .00487 | .01043 | .00057 | .00039 | 4.9775 | .00249 | .00299 | 10.676 | -.00068 | .00131 | -.00724 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7559.9** | **74607.** | **7577.9** |
| Stddev | 19.1 | 312. | 27.7 |
| %RSD | .25327 | .41833 | .36525 |
| #1 | 7546.4 | 74827. | 7597.5 |
| #2 | 7573.5 | 74386. | 7558.4 |

Sample Name: CCV-2064677 Acquired: 5/24/2013 0:47:55 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52127** | **.52354** | **1.0115** | **.52823** | **.49932** | **.47907** | **.00222** | **4.9115** | **.49490** | **.50809** | **.52025** | **.50647** | **2.4216** |
| Stddev | .00242 | .00070 | .0026 | .00127 | .00087 | .00147 | .00185 | .0076 | .00038 | .00042 | .00003 | .00168 | .0111 |
| %RSD | .46504 | .13296 | .25996 | .24134 | .17463 | .30609 | 83.106 | .15394 | .07760 | .08217 | .00610 | .33183 | .45685 |
| #1 | .51956 | .52403 | 1.0097 | .52913 | .49994 | .48011 | .00092 | 4.9061 | .49463 | .50838 | .52023 | .50528 | 2.4294 |
| #2 | .52299 | .52304 | 1.0134 | .52733 | .49870 | .47804 | .00353 | 4.9168 | .49517 | .50779 | .52028 | .50766 | 2.4138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.091** | **.95900** | **20.197** | **.49979** | **.51337** | **5.0589** | **.52474** | **1.0154** | **.99841** | **.08017** | **.99786** | **1.0211** | **5.1938** |
| Stddev | .013 | .00565 | .001 | .00094 | .00043 | .0008 | .00023 | .0018 | .00060 | .00123 | .00498 | .0020 | .0442 |
| %RSD | .02658 | .58939 | .00339 | .18749 | .08367 | .01568 | .04354 | .17457 | .06007 | 1.5280 | .49858 | .19237 | .85029 |
| #1 | 49.082 | .96300 | 20.197 | .49913 | .51367 | 5.0594 | .52458 | 1.0167 | .99883 | .08104 | .99435 | 1.0224 | 5.1626 |
| #2 | 49.101 | .95500 | 20.198 | .50045 | .51307 | 5.0583 | .52490 | 1.0142 | .99798 | .07931 | 1.0014 | 1.0197 | 5.2250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.115** | **1.0219** | **.49651** | **.00256** | **.50697** | **1.0186** | **-.00628** | **.48964** | **.51344** | **.49539** |
| Stddev | .095 | .0007 | .00103 | .00265 | .00118 | .0023 | .01662 | .00017 | .00111 | .00005 |
| %RSD | .85029 | .06732 | .20648 | 103.51 | .23215 | .22315 | 264.73 | .03389 | .21605 | .00937 |
| #1 | 11.048 | 1.0214 | .49723 | .00069 | .50614 | 1.0202 | .00547 | .48952 | .51265 | .49543 |
| #2 | 11.182 | 1.0224 | .49578 | .00443 | .50780 | 1.0170 | -.01803 | .48976 | .51422 | .49536 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7811.6** | **79346.** | **7643.5** |
| Stddev | 2.1 | 473. | 21.2 |
| %RSD | .02723 | .59667 | .27764 |
| #1 | 7810.1 | 79011. | 7628.5 |
| #2 | 7813.1 | 79681. | 7658.5 |

Sample Name: CCB Acquired: 5/24/2013 0:50:02 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00103** | **.00187** | **.00037** | F **.01497** | **.00028** | **.00007** | **-.00098** | **.00589** | **.00003** | **-.00006** | **.00019** |
| Stddev | .00015 | .00042 | .00050 | .00021 | .00016 | .00011 | .00016 | .00200 | .00008 | .00006 | .00034 |
| %RSD | 14.227 | 22.313 | 135.51 | 1.4331 | 57.709 | 160.20 | 16.174 | 34.029 | 272.50 | 103.69 | 182.96 |
| #1 | -.00093 | .00158 | .00002 | .01482 | .00040 | .00015 | -.00109 | .00447 | -.00003 | -.00002 | -.00006 |
| #2 | -.00114 | .00217 | .00073 | .01512 | .00017 | -.00001 | -.00087 | .00731 | .00009 | -.00010 | .00043 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00700 | | | | | | | |
| Low Limit | -.00093 | | | -.00700 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00029** | **.22747** | **-.00030** | **.00555** | **-.00002** | **.00053** | W **.13417** | **-.00009** | **.00071** | **-.00088** |
| Stddev | .00011 | .00110 | .03313 | .00095 | .00410 | .00003 | .00038 | .00981 | .00037 | .00039 | .00008 |
| %RSD | 56.986 | 380.47 | 14.565 | 314.11 | 73.781 | 192.76 | 71.546 | 7.3135 | 400.80 | 54.163 | 9.6347 |
| #1 | -.00027 | .00107 | .20404 | -.00098 | .00265 | .00001 | .00026 | .12723 | .00017 | .00044 | -.00082 |
| #2 | -.00012 | -.00049 | .25090 | .00037 | .00845 | -.00004 | .00080 | .14110 | -.00035 | .00099 | -.00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .09160 | | | |
| Low Limit | | | | | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08625** | **.00243** | W **.00616** | **.02879** | **.06161** | **-.00003** | **.00011** | **-.00053** | **-.00009** | **-.00001** | F **.05714** |
| Stddev | .00050 | .00338 | .00150 | .00609 | .01304 | .00049 | .00000 | .00192 | .00033 | .00004 | .01070 |
| %RSD | .57428 | 139.02 | 24.287 | 21.167 | 21.167 | 1914.1 | 1.2155 | 363.56 | 376.88 | 372.98 | 18.729 |
| #1 | .08590 | .00004 | .00721 | .03310 | .07084 | .00032 | .00011 | -.00188 | -.00032 | .00002 | .04957 |
| #2 | .08660 | .00482 | .00510 | .02448 | .05239 | -.00037 | .00011 | .00083 | .00015 | -.00004 | .06471 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | .00486 | | | | | | | | .05000 |
| Low Limit | | | -.00486 | | | | | | | | -.05000 |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00027** | **.00246** | **.00115** |
| Stddev | .00011 | .00004 | .00035 |
| %RSD | 39.618 | 1.5904 | 30.602 |
| #1 | -.00019 | .00248 | .00090 |
| #2 | -.00035 | .00243 | .00139 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7755.4** | **79686.** | **7633.8** |
| Stddev | 48.5 | 138. | 14.1 |
| %RSD | .62490 | .17373 | .18408 |
| #1 | 7721.2 | 79588. | 7643.7 |
| #2 | 7789.7 | 79784. | 7623.9 |

Sample Name: CCVL2067279[illegible] Acquired: 5/24/2013 0:52:16 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00946** | **.10972** | **.01372** | **.11672** | **.01007** | **.00104** | **.11722** | **.20941** | **.00506** | **.01065** | **.01099** | **.01538** | **.10647** |
| Stddev | .00009 | .00048 | .00098 | .00038 | .00003 | .00014 | .00123 | .00564 | .00009 | .00008 | .00016 | .00023 | .00310 |
| %RSD | .96702 | .43676 | 7.1391 | .32590 | .32771 | 13.623 | 1.0458 | 2.6912 | 1.7820 | .71106 | 1.4755 | 1.5155 | 2.9123 |
| #1 | .00939 | .10938 | .01302 | .11645 | .01005 | .00114 | .11809 | .21340 | .00499 | .01071 | .01110 | .01522 | .10428 |
| #2 | .00952 | .11005 | .01441 | .11699 | .01009 | .00094 | .11635 | .20543 | .00512 | .01060 | .01087 | .01555 | .10867 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1707** | **.00869** | **.21861** | **.01036** | **.02099** | **1.1844** | **.04379** | **2.9965** | **.00809** | **.07069** | **.01189** | **.01859** | **.56059** |
| Stddev | .0250 | .00084 | .00104 | .00014 | .00004 | .0384 | .00007 | .0138 | .00111 | .00295 | .00055 | .00116 | .00076 |
| %RSD | .78683 | 9.7144 | .47677 | 1.3393 | .19840 | 3.2395 | .16264 | .45978 | 13.700 | 4.1775 | 4.6347 | 6.2204 | .13644 |
| #1 | 3.1883 | .00810 | .21787 | .01026 | .02102 | 1.1573 | .04374 | 2.9867 | .00731 | .07278 | .01151 | .01941 | .56005 |
| #2 | 3.1531 | .00929 | .21934 | .01046 | .02096 | 1.2116 | .04384 | 3.0062 | .00888 | .06861 | .01228 | .01778 | .56113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1997** | **.10557** | **.01023** | **.01454** | **.00947** | **.01614** | F **.09560** | **.00986** | **.02296** | **.01502** |
| Stddev | .0016 | .00003 | .00005 | .00091 | .00001 | .00073 | .00437 | .00036 | .00001 | .00323 |
| %RSD | .13644 | .02495 | .47451 | 6.2688 | .09548 | 4.5333 | 4.5693 | 3.6441 | .06456 | 21.516 |
| #1 | 1.1985 | .10555 | .01020 | .01518 | .00946 | .01562 | .09869 | .00961 | .02294 | .01730 |
| #2 | 1.2008 | .10559 | .01026 | .01389 | .00947 | .01665 | .09251 | .01011 | .02297 | .01273 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7936.9** | **81733.** | **7836.4** |
| Stddev | 32.8 | 310. | 83.0 |
| %RSD | .41328 | .37909 | 1.0596 |
| #1 | 7960.1 | 81513. | 7895.1 |
| #2 | 7913.7 | 81952. | 7777.6 |

Sample Name: 280-42520-b-4-b  Acquired: 5/24/2013 0:54:33  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00091** | **.00346** | **.00092** | **.26716** | **.05084** | **.00008** | **-.00155** | **96.286** | **.00051** | **.00023** |
| Stddev | .00017 | .00023 | .00191 | .00062 | .00047 | .00005 | .00002 | .274 | .00015 | .00020 |
| %RSD | 18.954 | 6.7681 | 208.41 | .23327 | .92194 | 69.160 | 1.1371 | .28406 | 29.288 | 86.671 |
| #1 | -.00079 | .00330 | .00227 | .26672 | .05051 | .00004 | -.00154 | 96.092 | .00041 | .00038 |
| #2 | -.00104 | .00363 | -.00043 | .26760 | .05117 | .00011 | -.00157 | 96.479 | .00062 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **.00413** | **.01258** | **3.2065** | **.01584** | **23.718** | **.06279** | **.00187** | **55.692** | **.00172** |
| Stddev | .00013 | .00045 | .00075 | .0927 | .00024 | .191 | .00034 | .00016 | .358 | .00026 |
| %RSD | 12.852 | 10.934 | 5.9792 | 2.8907 | 1.5188 | .80531 | .53688 | 8.3443 | .64262 | 15.011 |
| #1 | .00093 | .00381 | .01205 | 3.2721 | .01567 | 23.583 | .06255 | .00198 | 55.439 | .00153 |
| #2 | .00112 | .00445 | .01311 | 3.1410 | .01601 | 23.853 | .06303 | .00176 | 55.945 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17535** | **-.00067** | **34.832** | **.00117** | **.00668** | **11.214** | **23.998** | **-.00106** | **.63150** | **-.00103** |
| Stddev | .00102 | .00144 | .001 | .00069 | .00314 | .017 | .037 | .00031 | .00103 | .00016 |
| %RSD | .58130 | 215.26 | .00343 | 59.116 | 46.966 | .15212 | .15212 | 29.659 | .16375 | 15.344 |
| #1 | .17463 | -.00169 | 34.832 | .00166 | .00446 | 11.202 | 23.972 | -.00084 | .63077 | -.00092 |
| #2 | .17607 | .00035 | 34.833 | .00068 | .00890 | 11.226 | 24.024 | -.00128 | .63223 | -.00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **.00104** | **.01085** | **.00164** | **.00779** | **.00012** |
| Stddev | .00018 | .00087 | .01323 | .00013 | .00010 | .00013 |
| %RSD | 29.256 | 83.531 | 121.86 | 7.8157 | 1.3315 | 106.35 |
| #1 | -.00048 | .00166 | .02021 | .00173 | .00786 | .00003 |
| #2 | -.00073 | .00043 | .00150 | .00155 | .00771 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7605.4** | **76973.** | **7668.3** |
| Stddev | 2.7 | 449. | 76.5 |
| %RSD | .03525 | .58352 | .99807 |
| #1 | 7607.3 | 77290. | 7722.4 |
| #2 | 7603.5 | 76655. | 7614.2 |

Sample Name: 280-42520-b-6-b  Acquired: 5/24/2013 0:56:49  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00120** | **.00588** | **-.00177** | **.19087** | **.05153** | **-.00005** | **-.00382** | **158.00** | **.00053** | **.00159** |
| Stddev | .00000 | .00002 | .00005 | .00129 | .00002 | .00003 | .00216 | .85 | .00015 | .00008 |
| %RSD | .14272 | .29560 | 2.8810 | .67626 | .03399 | 51.820 | 56.453 | .53512 | 27.900 | 5.1114 |
| #1 | -.00120 | .00587 | -.00181 | .18995 | .05154 | -.00003 | -.00230 | 157.40 | .00043 | .00154 |
| #2 | -.00120 | .00589 | -.00173 | .19178 | .05151 | -.00007 | -.00535 | 158.60 | .00063 | .00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.00188** | **.01549** | **4.1621** | **.02200** | **35.881** | **.21751** | **.00599** | **142.83** | **.00386** |
| Stddev | .00017 | .00024 | .00161 | .0108 | .00605 | .015 | .00049 | .00029 | .24 | .00006 |
| %RSD | 19.428 | 12.742 | 10.404 | .25958 | 27.489 | .04244 | .22727 | 4.7555 | .16737 | 1.6335 |
| #1 | .00074 | .00205 | .01663 | 4.1545 | .02627 | 35.870 | .21717 | .00579 | 142.66 | .00390 |
| #2 | .00098 | .00171 | .01435 | 4.1697 | .01772 | 35.892 | .21786 | .00620 | 143.00 | .00382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19938** | **-.00160** | **158.89** | **.00182** | **.00351** | **13.494** | **28.877** | **-.00055** | **1.0348** | **-.00074** |
| Stddev | .00115 | .00062 | .68 | .00052 | .00018 | .106 | .227 | .00104 | .0033 | .00071 |
| %RSD | .57769 | 38.854 | .42880 | 28.738 | 5.0938 | .78645 | .78645 | 189.80 | .32313 | 96.203 |
| #1 | .19856 | -.00205 | 158.41 | .00145 | .00364 | 13.419 | 28.717 | -.00128 | 1.0324 | -.00024 |
| #2 | .20019 | -.00116 | 159.37 | .00219 | .00339 | 13.569 | 29.038 | .00019 | 1.0372 | -.00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **.00090** | **.01308** | **.00202** | **.01637** | **.00104** |
| Stddev | .00004 | .00026 | .01840 | .00018 | .00014 | .00118 |
| %RSD | 9.6810 | 28.407 | 140.61 | 9.0232 | .84146 | 113.00 |
| #1 | -.00049 | .00108 | .00008 | .00215 | .01647 | .00021 |
| #2 | -.00043 | .00072 | .02609 | .00189 | .01627 | .00188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7531.4** | **74171.** | **7524.5** |
| Stddev | 20.4 | 179. | 87.6 |
| %RSD | .27114 | .24152 | 1.1637 |
| #1 | 7517.0 | 74045. | 7586.4 |
| #2 | 7545.8 | 74298. | 7462.6 |

Sample Name: 280-42520-b-8-b  Acquired: 5/24/2013 0:59:10  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00109** | **.00185** | **-.00194** | **.17297** | **.02912** | **.00002** | **-.00573** | **90.704** | **.00048** | **.00005** |
| Stddev | .00037 | .00006 | .00014 | .00123 | .00001 | .00001 | .00117 | .234 | .00004 | .00019 |
| %RSD | 33.710 | 3.2287 | 7.1640 | .71327 | .03404 | 64.212 | 20.469 | .25751 | 7.6518 | 381.47 |
| #1 | -.00134 | .00189 | -.00184 | .17210 | .02911 | .00002 | -.00490 | 90.869 | .00045 | -.00009 |
| #2 | -.00083 | .00180 | -.00204 | .17385 | .02912 | .00001 | -.00656 | 90.539 | .00051 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00752** | **.00188** | **7.8595** | **.02144** | **22.524** | **.00019** | **.00834** | **139.26** | **.00219** |
| Stddev | .00009 | .00028 | .00043 | .0557 | .00074 | .079 | .00010 | .00000 | .05 | .00011 |
| %RSD | 23.227 | 3.7121 | 22.793 | .70897 | 3.4478 | .34884 | 53.380 | .05926 | .03657 | 4.9626 |
| #1 | .00034 | .00732 | .00219 | 7.8201 | .02196 | 22.580 | .00027 | .00833 | 139.30 | .00227 |
| #2 | .00047 | .00771 | .00158 | 7.8989 | .02092 | 22.469 | .00012 | .00834 | 139.23 | .00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44980** | **-.00060** | **60.587** | **.00181** | **.00124** | **5.4897** | **11.748** | **-.00092** | **.80100** | **-.00115** |
| Stddev | .00382 | .00003 | .074 | .00017 | .00084 | .0214 | .046 | .00053 | .00053 | .00157 |
| %RSD | .85018 | 4.8880 | .12153 | 9.2400 | 67.321 | .39047 | .39047 | 57.378 | .06607 | 136.24 |
| #1 | .44709 | -.00058 | 60.535 | .00169 | .00065 | 5.5049 | 11.780 | -.00055 | .80138 | -.00226 |
| #2 | .45250 | -.00062 | 60.639 | .00192 | .00183 | 5.4745 | 11.716 | -.00129 | .80063 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **.00049** | **.02558** | **.00233** | **.00394** | **-.00139** |
| Stddev | .00006 | .00073 | .00657 | .00046 | .00030 | .00036 |
| %RSD | 10.962 | 150.80 | 25.690 | 19.873 | 7.5167 | 26.168 |
| #1 | -.00058 | -.00003 | .03023 | .00200 | .00415 | -.00164 |
| #2 | -.00049 | .00101 | .02093 | .00266 | .00373 | -.00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7731.9** | **78067.** | **7957.2** |
| Stddev | 47.6 | 369. | 28.5 |
| %RSD | .61527 | .47262 | .35880 |
| #1 | 7765.6 | 77806. | 7937.0 |
| #2 | 7698.3 | 78328. | 7977.4 |

Sample Name: 280-42520-b-10-b  Acquired: 5/24/2013 1:01:28  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00120** | **.00365** | **-.00028** | **.20425** | **.05970** | **.00002** | **-.00360** | **89.820** | **.00039** | **.00057** |
| Stddev | .00058 | .00001 | .00131 | .00014 | .00016 | .00007 | .00107 | .004 | .00025 | .00017 |
| %RSD | 48.403 | .39952 | 463.78 | .07049 | .27455 | 440.74 | 29.744 | .00431 | 63.886 | 29.657 |
| #1 | -.00079 | .00366 | .00065 | .20415 | .05982 | .00006 | -.00284 | 89.823 | .00021 | .00068 |
| #2 | -.00162 | .00364 | -.00121 | .20435 | .05959 | -.00003 | -.00436 | 89.817 | .00057 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **.00239** | **.02169** | **2.7839** | **.01727** | **27.512** | **.00061** | **.00312** | **91.470** | **.00197** |
| Stddev | .00008 | .00001 | .00178 | .0311 | .00042 | .017 | .00001 | .00029 | .024 | .00031 |
| %RSD | 6.4642 | .53815 | 8.2132 | 1.1176 | 2.4140 | .06049 | .88386 | 9.2831 | .02610 | 15.912 |
| #1 | .00119 | .00240 | .02295 | 2.8059 | .01756 | 27.524 | .00061 | .00291 | 91.486 | .00174 |
| #2 | .00130 | .00238 | .02043 | 2.7619 | .01697 | 27.500 | .00062 | .00332 | 91.453 | .00219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15718** | **-.00028** | **69.532** | **.00049** | **.00576** | **8.8313** | **18.899** | **-.00101** | **.60276** | **-.00136** |
| Stddev | .00089 | .00138 | .038 | .00454 | .00216 | .0355 | .076 | .00081 | .00037 | .00155 |
| %RSD | .56402 | 488.89 | .05498 | 928.23 | 37.459 | .40149 | .40149 | 80.561 | .06061 | 114.02 |
| #1 | .15656 | .00069 | 69.559 | -.00272 | .00728 | 8.8063 | 18.845 | -.00043 | .60302 | -.00245 |
| #2 | .15781 | -.00126 | 69.505 | .00370 | .00423 | 8.8564 | 18.953 | -.00159 | .60250 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00076** | **.00083** | **.03180** | **.00175** | **.00853** | **.00150** |
| Stddev | .00062 | .00055 | .00363 | .00010 | .00026 | .00197 |
| %RSD | 81.973 | 66.113 | 11.419 | 5.9059 | 3.0029 | 131.79 |
| #1 | -.00032 | .00044 | .02923 | .00168 | .00871 | .00289 |
| #2 | -.00120 | .00122 | .03437 | .00183 | .00835 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7731.6** | **77530.** | **7837.4** |
| Stddev | 8.4 | 432. | 13.6 |
| %RSD | .10850 | .55660 | .17411 |
| #1 | 7725.7 | 77225. | 7827.8 |
| #2 | 7737.5 | 77835. | 7847.1 |

Sample Name: 280-42509-o-1-b  Acquired: 5/24/2013 1:03:45  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00095** | **.00181** | **-.00196** | **.07717** | **.01755** | **-.00006** | **-.00609** | **53.112** | **.00077** | **.00217** |
| Stddev | .00042 | .00014 | .00197 | .00004 | .00012 | .00000 | .00055 | .011 | .00003 | .00002 |
| %RSD | 44.647 | 7.7419 | 100.74 | .04857 | .66067 | 5.0638 | 9.0527 | .02010 | 3.8684 | 1.1417 |
| #1 | -.00065 | .00191 | -.00335 | .07719 | .01763 | -.00006 | -.00570 | 53.119 | .00075 | .00218 |
| #2 | -.00125 | .00171 | -.00056 | .07714 | .01747 | -.00006 | -.00648 | 53.104 | .00080 | .00215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00361** | **.00232** | **.07158** | **8.5547** | **.00592** | **76.782** | **.03024** | **.00246** | **153.83** | **.17129** |
| Stddev | .00003 | .00046 | .00161 | .0135 | .00316 | .174 | .00001 | .00008 | .12 | .00048 |
| %RSD | .94228 | 19.812 | 2.2432 | .15783 | 53.339 | .22640 | .03419 | 3.2614 | .07993 | .27858 |
| #1 | .00359 | .00265 | .07271 | 8.5451 | .00369 | 76.659 | .03023 | .00240 | 153.74 | .17096 |
| #2 | .00364 | .00200 | .07044 | 8.5642 | .00815 | 76.905 | .03025 | .00252 | 153.92 | .17163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14755** | **.00063** | **17.379** | **.00080** | **.00392** | **30.480** | **65.227** | **-.00032** | **.45483** | **-.00249** |
| Stddev | .00091 | .00141 | .008 | .00155 | .00102 | .145 | .311 | .00070 | .00038 | .00054 |
| %RSD | .61733 | 222.59 | .04809 | 195.15 | 25.964 | .47719 | .47719 | 220.61 | .08464 | 21.922 |
| #1 | .14819 | -.00036 | 17.385 | -.00030 | .00320 | 30.377 | 65.007 | .00018 | .45510 | -.00210 |
| #2 | .14690 | .00163 | 17.374 | .00189 | .00464 | 30.583 | 65.447 | -.00082 | .45456 | -.00287 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.00091** | **-.00821** | **.00964** | **.00706** | **.00051** |
| Stddev | .00055 | .00031 | .01224 | .00008 | .00007 | .00064 |
| %RSD | 74.380 | 34.360 | 149.19 | .87334 | .94958 | 125.20 |
| #1 | -.00035 | .00069 | -.01687 | .00970 | .00711 | .00096 |
| #2 | -.00112 | .00113 | .00045 | .00958 | .00702 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7787.9** | **78316.** | **8033.6** |
| Stddev | 17.1 | 108. | 60.0 |
| %RSD | .21948 | .13821 | .74725 |
| #1 | 7800.0 | 78393. | 7991.2 |
| #2 | 7775.8 | 78240. | 8076.1 |

Sample Name: 280-42509-o-2-b  Acquired: 5/24/2013 1:06:04  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175557  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00177** | **.00157** | **-.00025** | **.07244** | **.02024** | **.00001** | **-.00378** | **58.500** | **.00124** | **.00155** |
| Stddev | .00019 | .00007 | .00240 | .00015 | .00004 | .00012 | .00167 | .153 | .00001 | .00007 |
| %RSD | 10.745 | 4.5531 | 977.01 | .20536 | .21966 | 2344.0 | 44.285 | .26185 | .69265 | 4.6243 |
| #1 | -.00190 | .00162 | .00145 | .07255 | .02028 | .00009 | -.00260 | 58.608 | .00123 | .00160 |
| #2 | -.00163 | .00151 | -.00194 | .07234 | .02021 | -.00008 | -.00496 | 58.391 | .00124 | .00150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08336** | **.00562** | **.77931** | **10.033** | **.00787** | **95.204** | **.05091** | **.00091** | **173.13** | **.27687** |
| Stddev | .00001 | .00037 | .01055 | .014 | .00168 | .233 | .00010 | .00015 | .55 | .00040 |
| %RSD | .01061 | 6.5353 | 1.3542 | .14348 | 21.281 | .24432 | .19478 | 16.944 | .31821 | .14399 |
| #1 | .08337 | .00536 | .78677 | 10.043 | .00669 | 95.369 | .05084 | .00080 | 173.52 | .27715 |
| #2 | .08335 | .00588 | .77185 | 10.023 | .00906 | 95.040 | .05098 | .00102 | 172.74 | .27659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13932** | **.00017** | **22.248** | **-.00115** | **.00361** | **31.715** | **67.871** | **-.00087** | **.50811** | **-.00148** |
| Stddev | .00040 | .00036 | .067 | .00288 | .00349 | .096 | .205 | .00029 | .00162 | .00067 |
| %RSD | .28686 | 216.14 | .30105 | 250.55 | 96.727 | .30236 | .30236 | 32.994 | .31847 | 45.482 |
| #1 | .13961 | .00042 | 22.201 | -.00318 | .00608 | 31.783 | 68.016 | -.00107 | .50926 | -.00195 |
| #2 | .13904 | -.00009 | 22.295 | .00089 | .00114 | 31.648 | 67.726 | -.00066 | .50697 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **.00058** | **.01981** | **.01032** | **.00279** | **-.00002** |
| Stddev | .00030 | .00081 | .00451 | .00051 | .00005 | .00011 |
| %RSD | 93.469 | 139.37 | 22.759 | 4.9220 | 1.6745 | 458.93 |
| #1 | -.00011 | .00001 | .02300 | .00996 | .00276 | -.00010 |
| #2 | -.00053 | .00116 | .01662 | .01068 | .00283 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7675.9** | **77389.** | **8003.9** |
| Stddev | 60.1 | 374. | 67.7 |
| %RSD | .78302 | .48363 | .84550 |
| #1 | 7633.4 | 77125. | 7956.0 |
| #2 | 7718.4 | 77654. | 8051.7 |

Sample Name: CCVH-2067278 Acquired: 5/24/2013 1:08:20 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00140** | **48.445** | **.00073** | **.00824** | **.00022** | **.00007** | **1.0261** | **-.00528** | **.00033** | **.00047** | **.00006** | **-.00076** | **50.131** |
| Stddev | .00081 | .246 | .00073 | .00039 | .00023 | .00007 | .0046 | .00126 | .00023 | .00006 | .00002 | .00065 | .526 |
| %RSD | 57.636 | .50773 | 99.278 | 4.7204 | 105.35 | 96.457 | .45340 | 23.872 | 70.367 | 11.857 | 43.558 | 85.423 | 1.0498 |
| #1 | -.00197 | 48.271 | .00022 | .00796 | .00006 | .00002 | 1.0228 | -.00439 | .00049 | .00043 | .00004 | -.00122 | 49.759 |
| #2 | -.00083 | 48.619 | .00125 | .00851 | .00039 | .00012 | 1.0294 | -.00617 | .00017 | .00051 | .00007 | -.00030 | 50.504 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21152** | **.00245** | **.04187** | **-.00006** | **-.00029** | **254.81** | **-.00004** | **.00443** | **-.00090** | **4.9055** | **-.00446** | **.00232** | **.01994** |
| Stddev | .04189 | .00649 | .00238 | .00006 | .00026 | 2.83 | .00037 | .00080 | .00127 | .0111 | .00124 | .00074 | .01582 |
| %RSD | 19.805 | 264.37 | 5.6885 | 95.240 | 91.480 | 1.1094 | 851.98 | 18.122 | 141.76 | .22658 | 27.736 | 31.900 | 79.361 |
| #1 | .18190 | -.00213 | .04355 | -.00011 | -.00047 | 252.81 | -.00030 | .00500 | .00000 | 4.9133 | -.00533 | .00179 | .00875 |
| #2 | .24114 | .00704 | .04018 | -.00002 | -.00010 | 256.81 | .00022 | .00386 | -.00180 | 4.8976 | -.00358 | .00284 | .03113 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04267** | **-.00091** | **.00025** | **4.8754** | **.00300** | **.00052** | **10.490** | **-.00071** | **.00158** | **-.00530** |
| Stddev | .03386 | .00014 | .00008 | .0115 | .00026 | .00015 | .046 | .00079 | .00028 | .00100 |
| %RSD | 79.361 | 15.724 | 34.294 | .23542 | 8.6295 | 29.108 | .43515 | 111.25 | 17.729 | 18.902 |
| #1 | .01872 | -.00102 | .00031 | 4.8673 | .00318 | .00041 | 10.522 | -.00015 | .00178 | -.00601 |
| #2 | .06661 | -.00081 | .00019 | 4.8836 | .00281 | .00062 | 10.458 | -.00126 | .00138 | -.00459 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7927.7** | **79463.** | **8125.8** |
| Stddev | 2.8 | 136. | 94.6 |
| %RSD | .03556 | .17103 | 1.1647 |
| #1 | 7929.7 | 79559. | 8192.8 |
| #2 | 7925.7 | 79367. | 8058.9 |

Sample Name: CCV-2064677 Acquired: 5/24/2013 1:10:39 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52104** | **.51896** | **1.0233** | **.52431** | **.50053** | **.47998** | **.00052** | **4.8879** | **.49422** | **.50529** | **.52144** | **.50278** | **2.4011** | **48.857** |
| Stddev | .00259 | .00111 | .0016 | .00025 | .00192 | .00068 | .00048 | .0306 | .00012 | .00030 | .00013 | .00016 | .0138 | .096 |
| %RSD | .49682 | .21453 | .15983 | .04796 | .38318 | .14256 | 92.295 | .62555 | .02370 | .05996 | .02530 | .03193 | .57684 | .19723 |
| #1 | .51921 | .51818 | 1.0222 | .52449 | .49918 | .47949 | .00018 | 4.8663 | .49430 | .50508 | .52153 | .50267 | 2.3913 | 48.789 |
| #2 | .52287 | .51975 | 1.0245 | .52414 | .50189 | .48046 | .00086 | 4.9096 | .49414 | .50550 | .52134 | .50290 | 2.4109 | 48.925 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95535** | **20.034** | **.49522** | **.51416** | **5.0208** | **.52545** | **1.0213** | **.99148** | **.05740** | **1.0053** | **1.0401** | **5.2739** | **11.286** | **1.0261** |
| Stddev | .00333 | .035 | .00088 | .00095 | .0030 | .00015 | .0001 | .00021 | .00217 | .0034 | .0014 | .0437 | .094 | .0012 |
| %RSD | .34848 | .17693 | .17835 | .18390 | .06022 | .02883 | .00770 | .02114 | 3.7750 | .33975 | .13142 | .82856 | .82856 | .11512 |
| #1 | .95300 | 20.009 | .49460 | .51483 | 5.0229 | .52534 | 1.0214 | .99163 | .05587 | 1.0028 | 1.0391 | 5.2430 | 11.220 | 1.0253 |
| #2 | .95771 | 20.059 | .49584 | .51349 | 5.0186 | .52555 | 1.0213 | .99134 | .05894 | 1.0077 | 1.0411 | 5.3048 | 11.352 | 1.0269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49793** | **.00192** | **.50275** | **1.0175** | **.02299** | **.48270** | **.50659** | **.50274** |
| Stddev | .00184 | .00035 | .00045 | .0030 | .01953 | .00165 | .00080 | .00647 |
| %RSD | .36977 | 18.049 | .08854 | .29585 | 84.950 | .34101 | .15696 | 1.2874 |
| #1 | .49662 | .00216 | .50307 | 1.0154 | .03681 | .48153 | .50716 | .49816 |
| #2 | .49923 | .00167 | .50244 | 1.0196 | .00918 | .48386 | .50603 | .50731 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8206.2** | **83285.** | **8164.1** |
| Stddev | 18.4 | 5. | 67.3 |
| %RSD | .22479 | .00584 | .82453 |
| #1 | 8219.2 | 83289. | 8211.7 |
| #2 | 8193.1 | 83282. | 8116.5 |

Sample Name: CCB  Acquired: 5/24/2013 1:12:47  Type: QC
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **.00156** | **.00051** | W **.00693** | **.00016** | **.00005** | **-.00137** | **.00175** | **.00008** | **.00009** | **.00025** | **-.00055** |
| Stddev | .00004 | .00030 | .00150 | .00066 | .00006 | .00007 | .00048 | .00030 | .00015 | .00023 | .00023 | .00062 |
| %RSD | 5.4381 | 18.899 | 295.06 | 9.4703 | 36.869 | 142.69 | 35.430 | 17.063 | 176.36 | 266.26 | 91.159 | 113.74 |
| #1 | -.00065 | .00135 | -.00055 | .00740 | .00020 | .00009 | -.00171 | .00154 | .00019 | .00025 | .00009 | -.00099 |
| #2 | -.00071 | .00177 | .00157 | .00647 | .00011 | .00000 | -.00103 | .00196 | -.00002 | -.00008 | .00042 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00437 | | | | | | | | |
| Low Limit | | | | -.00437 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00474** | **.15561** | W **.00494** | **.00478** | **.00004** | **.00048** | W **.10707** | **-.00018** | **.00174** | **-.00184** | **.06626** | W **.00403** |
| Stddev | .00205 | .01284 | .00211 | .00193 | .00002 | .00004 | .00420 | .00012 | .00003 | .00054 | .00237 | .00140 |
| %RSD | 43.268 | 8.2528 | 42.705 | 40.468 | 57.120 | 8.3399 | 3.9233 | 67.468 | 2.0005 | 29.515 | 3.5712 | 34.813 |
| #1 | .00618 | .16469 | .00644 | .00615 | .00005 | .00051 | .10410 | -.00010 | .00172 | -.00146 | .06793 | .00304 |
| #2 | .00329 | .14653 | .00345 | .00341 | .00002 | .00045 | .11004 | -.00027 | .00177 | -.00222 | .06459 | .00503 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00261 | | | | .09160 | | | | | .00314 |
| Low Limit | | | -.00261 | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00254** | **.02274** | **.04866** | **-.00025** | **.00015** | **.00208** | **-.00033** | **.00035** | **.00288** | **.00013** | **.00250** | **.00044** |
| Stddev | .00171 | .01242 | .02657 | .00004 | .00001 | .00119 | .00051 | .00094 | .02741 | .00014 | .00030 | .00148 |
| %RSD | 67.368 | 54.604 | 54.604 | 14.028 | 9.0185 | 57.047 | 151.62 | 267.56 | 950.17 | 108.41 | 12.129 | 337.72 |
| #1 | .00133 | .03152 | .06744 | -.00028 | .00016 | .00292 | -.00069 | -.00031 | -.01650 | .00003 | .00229 | .00148 |
| #2 | .00376 | .01396 | .02987 | -.00023 | .00014 | .00124 | .00002 | .00102 | .02226 | .00023 | .00272 | -.00061 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8176.0** | **84361.** | **8167.2** |
| Stddev | 12.8 | 428. | 32.5 |
| %RSD | .15601 | .50735 | .39818 |
| #1 | 8166.9 | 84059. | 8144.2 |
| #2 | 8185.0 | 84664. | 8190.2 |

Sample Name: CCVL2067279[illegible] Acquired: 5/24/2013 1:15:02 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00969** | **.10869** | **.01511** | **.11101** | **.01005** | **.00098** | **.11798** | **.19757** | **.00518** | **.01074** | **.01082** | **.01564** | **.09664** |
| Stddev | .00011 | .00018 | .00032 | .00044 | .00005 | .00004 | .00353 | .00072 | .00009 | .00015 | .00014 | .00010 | .00077 |
| %RSD | 1.0883 | .16778 | 2.0912 | .39269 | .50041 | 3.7292 | 2.9912 | .36657 | 1.7908 | 1.3671 | 1.2503 | .65727 | .79310 |
| #1 | .00961 | .10857 | .01534 | .11070 | .01009 | .00096 | .12048 | .19808 | .00525 | .01063 | .01072 | .01571 | .09609 |
| #2 | .00976 | .10882 | .01489 | .11132 | .01002 | .00101 | .11549 | .19705 | .00512 | .01084 | .01091 | .01557 | .09718 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1013** | **.01080** | **.21543** | **.01019** | **.02066** | **1.1339** | **.04385** | **2.9932** | **.00808** | **.04968** | **.01031** | **.01918** | **.53621** |
| Stddev | .0216 | .00026 | .00218 | .00005 | .00007 | .0005 | .00025 | .0045 | .00060 | .00060 | .00236 | .00026 | .00685 |
| %RSD | .69552 | 2.4446 | 1.0109 | .47362 | .34444 | .04798 | .56519 | .15118 | 7.3724 | 1.2147 | 22.862 | 1.3769 | 1.2775 |
| #1 | 3.1165 | .01061 | .21697 | .01022 | .02061 | 1.1342 | .04367 | 2.9900 | .00766 | .05011 | .00864 | .01937 | .54106 |
| #2 | 3.0860 | .01098 | .21389 | .01015 | .02071 | 1.1335 | .04402 | 2.9964 | .00850 | .04926 | .01197 | .01900 | .53137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1475** | **.10468** | **.01024** | **.01518** | **.00986** | **.01760** | F **.08059** | **.00956** | **.02312** | **.01706** |
| Stddev | .0147 | .00027 | .00005 | .00224 | .00009 | .00056 | .01610 | .00032 | .00048 | .00023 |
| %RSD | 1.2775 | .25588 | .51933 | 14.729 | .93057 | 3.1691 | 19.982 | 3.3483 | 2.0846 | 1.3630 |
| #1 | 1.1579 | .10449 | .01021 | .01360 | .00980 | .01800 | .06921 | .00933 | .02346 | .01690 |
| #2 | 1.1371 | .10487 | .01028 | .01676 | .00993 | .01721 | .09198 | .00978 | .02278 | .01723 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8324.9** | **85365.** | **8369.6** |
| Stddev | 15.2 | 303. | 16.8 |
| %RSD | .18219 | .35441 | .20013 |
| #1 | 8335.7 | 85151. | 8381.4 |
| #2 | 8314.2 | 85579. | 8357.7 |

Sample Name: mb 280-175515/1-b Acquired: 5/24/2013 1:17:19 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175546 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00096** | **.00225** | **-.00246** | **.00542** | **-.00007** | **.00001** | **-.00252** | **.00632** | **.00002** | **.00031** |
| Stddev | .00008 | .00008 | .00137 | .00094 | .00003 | .00003 | .00391 | .00272 | .00001 | .00000 |
| %RSD | 7.8260 | 3.3776 | 55.553 | 17.307 | 41.796 | 547.95 | 154.85 | 43.057 | 49.207 | .65197 |
| #1 | -.00091 | .00230 | -.00150 | .00476 | -.00005 | -.00001 | -.00529 | .00439 | .00002 | .00031 |
| #2 | -.00102 | .00220 | -.00343 | .00608 | -.00009 | .00002 | .00024 | .00824 | .00003 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00006** | **.01527** | **.09073** | **-.00020** | **.00407** | **.00029** | **.00001** | **.11684** | **.00036** |
| Stddev | .00002 | .00030 | .00019 | .00607 | .00178 | .00407 | .00000 | .00007 | .00222 | .00018 |
| %RSD | 7.3910 | 481.11 | 1.2209 | 6.6894 | 897.60 | 99.932 | 1.1117 | 1038.3 | 1.8966 | 48.865 |
| #1 | .00027 | -.00015 | .01540 | .08644 | .00106 | .00695 | .00029 | .00006 | .11841 | .00024 |
| #2 | .00030 | .00027 | .01514 | .09502 | -.00146 | .00119 | .00029 | -.00005 | .11528 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17281** | **-.00081** | **.04917** | **-.00012** | **.00283** | **.03737** | **.07997** | **.00012** | **.00007** | **.00076** |
| Stddev | .00022 | .00058 | .00122 | .00103 | .00331 | .00639 | .01367 | .00072 | .00014 | .00187 |
| %RSD | .12804 | 71.893 | 2.4851 | 872.60 | 116.84 | 17.091 | 17.091 | 610.93 | 213.66 | 246.57 |
| #1 | .17265 | -.00040 | .05003 | -.00084 | .00517 | .03285 | .07031 | -.00039 | .00016 | -.00057 |
| #2 | .17296 | -.00122 | .04830 | .00061 | .00049 | .04189 | .08964 | .00063 | -.00003 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **-.00022** | **-.00365** | **.00024** | **.00360** | **.00055** |
| Stddev | .00020 | .00019 | .05473 | .00011 | .00003 | .00070 |
| %RSD | 96.771 | 87.867 | 1497.7 | 44.942 | .69923 | 127.93 |
| #1 | -.00007 | -.00008 | .03505 | .00016 | .00358 | .00104 |
| #2 | -.00035 | -.00036 | -.04235 | .00031 | .00362 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8383.7** | **85678.** | **8437.3** |
| Stddev | 19.3 | 530. | .4 |
| %RSD | .23027 | .61806 | .00473 |
| #1 | 8370.0 | 85304. | 8437.0 |
| #2 | 8397.3 | 86053. | 8437.6 |

Sample Name: lcs 280-175515/2-b  Acquired: 5/24/2013 1:19:34  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04978** | **1.9216** | **1.0100** | **1.0439** | **1.9668** | **.04758** | **2.1699** | **47.885** | **.09816** | **.48387** |
| Stddev | .00028 | .0036 | .0034 | .0037 | .0033 | .00033 | .0021 | .155 | .00017 | .00120 |
| %RSD | .55319 | .18508 | .34054 | .35584 | .16704 | .70327 | .09601 | .32414 | .17604 | .24887 |
| #1 | .04958 | 1.9191 | 1.0076 | 1.0413 | 1.9645 | .04734 | 2.1684 | 47.775 | .09804 | .48302 |
| #2 | .04997 | 1.9241 | 1.0125 | 1.0465 | 1.9692 | .04782 | 2.1713 | 47.995 | .09828 | .48473 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20325** | **.24507** | **.98204** | **48.031** | **.93097** | **48.622** | **.47982** | **1.0408** | **51.693** | **.50139** |
| Stddev | .00072 | .00022 | .00163 | .352 | .00349 | .046 | .00064 | .0013 | .361 | .00189 |
| %RSD | .35463 | .08853 | .16624 | .73326 | .37538 | .09405 | .13379 | .12755 | .69754 | .37616 |
| #1 | .20274 | .24523 | .98088 | 47.782 | .92849 | 48.589 | .47937 | 1.0398 | 51.948 | .50005 |
| #2 | .20376 | .24492 | .98319 | 48.280 | .93344 | 48.654 | .48028 | 1.0417 | 51.438 | .50272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.349** | **.47757** | **.04251** | **.52952** | **2.0457** | **10.714** | **22.928** | **2.0392** | **.97866** | **.97968** |
| Stddev | .017 | .00019 | .00196 | .00106 | .0081 | .003 | .007 | .0028 | .00092 | .00082 |
| %RSD | .16755 | .03957 | 4.6073 | .19957 | .39422 | .03000 | .03000 | .13695 | .09417 | .08322 |
| #1 | 10.336 | .47770 | .04113 | .52877 | 2.0400 | 10.716 | 22.933 | 2.0373 | .97800 | .98026 |
| #2 | 10.361 | .47744 | .04390 | .53026 | 2.0514 | 10.712 | 22.923 | 2.0412 | .97931 | .97911 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0232** | **1.9201** | **2.1812** | **.47981** | **.49300** | **.50647** |
| Stddev | .0002 | .0035 | .0123 | .00039 | .00059 | .00527 |
| %RSD | .02335 | .18247 | .56416 | .08101 | .11935 | 1.0407 |
| #1 | 1.0230 | 1.9226 | 2.1725 | .48008 | .49258 | .50274 |
| #2 | 1.0234 | 1.9177 | 2.1899 | .47953 | .49341 | .51019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8037.5** | **81776.** | **8248.0** |
| Stddev | 28.4 | 191. | 19.8 |
| %RSD | .35285 | .23398 | .24057 |
| #1 | 8057.5 | 81641. | 8262.0 |
| #2 | 8017.4 | 81911. | 8233.9 |

Sample Name: 280-42298-a-2-b  Acquired: 5/24/2013 1:21:41  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00114** | **.00291** | **-.00146** | **.12535** | **.12026** | **.00009** | **-.00294** | **130.51** | **.00083** | **.00019** |
| Stddev | .00005 | .00012 | .00088 | .00072 | .00042 | .00010 | .00032 | .07 | .00006 | .00001 |
| %RSD | 4.5889 | 4.2597 | 60.340 | .57288 | .35305 | 109.51 | 10.917 | .05448 | 7.0558 | 5.8023 |
| #1 | -.00118 | .00300 | -.00084 | .12585 | .11996 | .00002 | -.00317 | 130.46 | .00087 | .00020 |
| #2 | -.00110 | .00282 | -.00209 | .12484 | .12056 | .00016 | -.00272 | 130.56 | .00079 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00048** | **.00770** | **4.6063** | **.02523** | **30.806** | **.00871** | **.00103** | **45.810** | **.00174** |
| Stddev | .00012 | .00009 | .00153 | .0199 | .00291 | .095 | .00004 | .00021 | .087 | .00011 |
| %RSD | 15.002 | 19.616 | 19.865 | .43163 | 11.546 | .30843 | .47952 | 20.871 | .19018 | 6.0629 |
| #1 | .00072 | .00042 | .00878 | 4.5923 | .02317 | 30.873 | .00874 | .00088 | 45.872 | .00167 |
| #2 | .00089 | .00055 | .00661 | 4.6204 | .02729 | 30.738 | .00868 | .00118 | 45.749 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16890** | **-.00010** | **38.829** | **-.00070** | **.00383** | **10.014** | **21.429** | **.00002** | **1.3539** | **-.00073** |
| Stddev | .00211 | .00027 | .008 | .00087 | .00088 | .063 | .134 | .00053 | .0004 | .00074 |
| %RSD | 1.2479 | 266.91 | .01997 | 123.89 | 22.931 | .62503 | .62503 | 2325.3 | .02940 | 101.67 |
| #1 | .17039 | -.00029 | 38.834 | -.00009 | .00321 | 9.9695 | 21.335 | -.00035 | 1.3536 | -.00126 |
| #2 | .16741 | .00009 | 38.823 | -.00132 | .00445 | 10.058 | 21.524 | .00040 | 1.3541 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00107** | **.01113** | **.00070** | **.00542** | **.00217** |
| Stddev | .00006 | .00014 | .00611 | .00052 | .00000 | .00212 |
| %RSD | 175.78 | 13.139 | 54.880 | 73.907 | .01353 | 97.533 |
| #1 | .00001 | .00097 | .00681 | .00033 | .00542 | .00067 |
| #2 | -.00008 | .00117 | .01545 | .00107 | .00542 | .00367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7916.1** | **80284.** | **8239.0** |
| Stddev | 22.8 | 672. | 7.0 |
| %RSD | .28823 | .83762 | .08448 |
| #1 | 7932.2 | 79809. | 8243.9 |
| #2 | 7899.9 | 80760. | 8234.1 |

Sample Name: 280-42298-a-3-b  Acquired: 5/24/2013 1:23:58  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **.00123** | **-.00061** | **.33678** | **.12260** | **.00005** | **-.00387** | **117.07** | **.00088** | **-.00005** |
| Stddev | .00000 | .00001 | .00219 | .00085 | .00119 | .00000 | .00021 | .31 | .00007 | .00001 |
| %RSD | .12468 | .95313 | 358.80 | .25116 | .97270 | 7.6487 | 5.5353 | .26320 | 7.7471 | 28.171 |
| #1 | -.00091 | .00122 | .00094 | .33619 | .12344 | .00005 | -.00402 | 117.29 | .00092 | -.00006 |
| #2 | -.00090 | .00124 | -.00216 | .33738 | .12176 | .00005 | -.00372 | 116.85 | .00083 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00049** | **.00246** | **3.9471** | **.02952** | **28.964** | **.02873** | **.00589** | **20.606** | **.00150** |
| Stddev | .00011 | .00006 | .00162 | .0212 | .00214 | .001 | .00013 | .00001 | .264 | .00005 |
| %RSD | 29.686 | 11.951 | 66.020 | .53642 | 7.2491 | .00289 | .46501 | .17562 | 1.2824 | 3.5549 |
| #1 | .00046 | .00053 | .00360 | 3.9321 | .03104 | 28.965 | .02864 | .00588 | 20.793 | .00153 |
| #2 | .00030 | .00045 | .00131 | 3.9621 | .02801 | 28.964 | .02883 | .00590 | 20.419 | .00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13176** | **-.00024** | **46.083** | **-.00124** | **.00238** | **5.1866** | **11.099** | **-.00004** | **1.1160** | **.00002** |
| Stddev | .00135 | .00014 | .034 | .00317 | .00176 | .0219 | .047 | .00052 | .0042 | .00072 |
| %RSD | 1.0228 | 56.432 | .07436 | 255.06 | 73.747 | .42186 | .42186 | 1494.2 | .37405 | 3555.0 |
| #1 | .13272 | -.00015 | 46.058 | -.00349 | .00114 | 5.2021 | 11.132 | -.00041 | 1.1189 | -.00049 |
| #2 | .13081 | -.00034 | 46.107 | .00100 | .00363 | 5.1711 | 11.066 | .00034 | 1.1130 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **.00058** | **-.00551** | **.00052** | **.00501** | **.00112** |
| Stddev | .00028 | .00128 | .06210 | .00046 | .00019 | .00138 |
| %RSD | 174.56 | 222.98 | 1128.1 | 89.878 | 3.8657 | 123.03 |
| #1 | -.00036 | .00148 | .03841 | .00084 | .00515 | .00209 |
| #2 | .00004 | -.00033 | -.04942 | .00019 | .00487 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7862.4** | **79968.** | **8095.8** |
| Stddev | 14.5 | 150. | 3.9 |
| %RSD | .18400 | .18771 | .04842 |
| #1 | 7872.7 | 79862. | 8093.0 |
| #2 | 7852.2 | 80074. | 8098.5 |

Sample Name: 280-42298-a-5-b  Acquired: 5/24/2013 1:26:14  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00130** | **.00134** | **-.00099** | **.12225** | **.08648** | **.00008** | **-.00285** | **102.95** | **.00085** | **-.00016** |
| Stddev | .00014 | .00012 | .00169 | .00062 | .00004 | .00007 | .00146 | .24 | .00010 | .00003 |
| %RSD | 10.429 | 8.6905 | 171.26 | .50433 | .04992 | 81.369 | 51.225 | .23276 | 11.174 | 20.159 |
| #1 | -.00121 | .00142 | -.00218 | .12181 | .08645 | .00013 | -.00182 | 102.78 | .00092 | -.00018 |
| #2 | -.00140 | .00126 | .00021 | .12268 | .08651 | .00003 | -.00388 | 103.12 | .00079 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **.00054** | **.00296** | **3.6818** | **.02268** | **24.072** | **.00349** | **.00026** | **33.570** | **.00121** |
| Stddev | .00001 | .00006 | .00242 | .0357 | .00124 | .077 | .00003 | .00020 | .271 | .00014 |
| %RSD | .73879 | 10.119 | 81.875 | .97020 | 5.4781 | .31809 | .73629 | 76.188 | .80835 | 11.329 |
| #1 | .00130 | .00058 | .00467 | 3.7071 | .02181 | 24.018 | .00351 | .00012 | 33.378 | .00112 |
| #2 | .00131 | .00051 | .00124 | 3.6566 | .02356 | 24.126 | .00347 | .00040 | 33.762 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16372** | **-.00153** | **36.404** | **-.00010** | **.00259** | **9.0947** | **19.463** | **-.00044** | **.98977** | **-.00112** |
| Stddev | .00071 | .00056 | .023 | .00007 | .00117 | .0685 | .147 | .00052 | .00382 | .00052 |
| %RSD | .43584 | 36.882 | .06383 | 74.194 | 45.298 | .75329 | .75329 | 116.63 | .38626 | 46.204 |
| #1 | .16422 | -.00113 | 36.388 | -.00015 | .00176 | 9.0462 | 19.359 | -.00008 | .98706 | -.00076 |
| #2 | .16321 | -.00193 | 36.421 | -.00005 | .00342 | 9.1431 | 19.566 | -.00081 | .99247 | -.00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.00001** | **.03596** | **.00037** | **.00495** | **-.00148** |
| Stddev | .00043 | .00080 | .03162 | .00106 | .00062 | .00080 |
| %RSD | 84.619 | 7556.5 | 87.932 | 285.40 | 12.450 | 54.032 |
| #1 | -.00082 | .00057 | .01360 | -.00038 | .00451 | -.00204 |
| #2 | -.00021 | -.00055 | .05831 | .00112 | .00538 | -.00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7823.3** | **79570.** | **8059.5** |
| Stddev | 12.8 | 472. | 60.0 |
| %RSD | .16297 | .59319 | .74433 |
| #1 | 7814.3 | 79904. | 8101.9 |
| #2 | 7832.3 | 79236. | 8017.1 |

Sample Name: 280-42298-a-6-b  Acquired: 5/24/2013 1:28:30  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00156** | **.00150** | **.01413** | **.43806** | **.14840** | **.00003** | **-.00273** | **108.07** | **.00062** | **.00294** |
| Stddev | .00020 | .00000 | .00062 | .00085 | .00051 | .00007 | .00035 | .14 | .00028 | .00019 |
| %RSD | 13.061 | .08814 | 4.3754 | .19352 | .34567 | 205.29 | 12.831 | .13274 | 44.660 | 6.4808 |
| #1 | -.00170 | .00150 | .01457 | .43866 | .14876 | .00009 | -.00248 | 108.17 | .00081 | .00280 |
| #2 | -.00141 | .00151 | .01369 | .43746 | .14803 | -.00002 | -.00298 | 107.96 | .00042 | .00307 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **-.00025** | **.02437** | **14.127** | **.02259** | **35.225** | **5.4595** | **.02771** | **28.223** | **.00679** |
| Stddev | .00023 | .00005 | .00082 | .006 | .00055 | .052 | .0713 | .00004 | .069 | .00002 |
| %RSD | 48.352 | 18.207 | 3.3643 | .04143 | 2.4318 | .14669 | 1.3052 | .13753 | .24348 | .32711 |
| #1 | .00065 | -.00022 | .02495 | 14.131 | .02220 | 35.189 | 5.4091 | .02774 | 28.175 | .00681 |
| #2 | .00032 | -.00028 | .02379 | 14.123 | .02298 | 35.262 | 5.5098 | .02769 | 28.272 | .00678 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10512** | **.00026** | **30.003** | **-.00062** | **.00268** | **10.926** | **23.381** | **-.00019** | **.69810** | **-.00110** |
| Stddev | .00138 | .00040 | .033 | .00121 | .00319 | .019 | .041 | .00072 | .00148 | .00074 |
| %RSD | 1.3121 | 153.70 | .10852 | 193.26 | 118.94 | .17611 | .17611 | 381.14 | .21244 | 67.217 |
| #1 | .10609 | .00054 | 30.026 | -.00148 | .00494 | 10.939 | 23.410 | -.00070 | .69915 | -.00058 |
| #2 | .10414 | -.00002 | 29.980 | .00023 | .00043 | 10.912 | 23.352 | .00032 | .69705 | -.00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.00225** | **.00621** | **.02139** | **.00545** | **.00184** |
| Stddev | .00005 | .00120 | .02948 | .00022 | .00031 | .00098 |
| %RSD | 14.587 | 53.259 | 475.10 | 1.0475 | 5.7140 | 53.359 |
| #1 | -.00034 | .00310 | -.01464 | .02124 | .00523 | .00114 |
| #2 | -.00028 | .00141 | .02705 | .02155 | .00567 | .00253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7949.6** | **80543.** | **8136.2** |
| Stddev | 18.8 | 79. | 14.3 |
| %RSD | .23633 | .09835 | .17541 |
| #1 | 7962.9 | 80487. | 8146.3 |
| #2 | 7936.3 | 80599. | 8126.1 |

Sample Name: 280-42298-a-7-b  Acquired: 5/24/2013 1:30:51  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00178** | **.00492** | **-.00086** | **.23795** | **.03761** | **.00002** | **-.00592** | **75.148** | **.00064** | **.00047** |
| Stddev | .00021 | .00007 | .00183 | .00013 | .00014 | .00002 | .00047 | .113 | .00001 | .00009 |
| %RSD | 11.614 | 1.4781 | 213.32 | .05650 | .37975 | 116.40 | 7.8805 | .15094 | 1.9084 | 20.065 |
| #1 | -.00164 | .00487 | .00044 | .23786 | .03751 | .00003 | -.00625 | 75.068 | .00065 | .00040 |
| #2 | -.00193 | .00498 | -.00215 | .23805 | .03771 | .00000 | -.00559 | 75.229 | .00063 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **.01216** | **.03032** | **23.004** | **.02475** | **30.588** | **3.9348** | **.00047** | **18.836** | **.00559** |
| Stddev | .00000 | .00013 | .00116 | .037 | .00063 | .117 | .0434 | .00002 | .244 | .00008 |
| %RSD | .38287 | 1.0656 | 3.8256 | .16003 | 2.5450 | .38184 | 1.1022 | 4.8890 | 1.2940 | 1.4848 |
| #1 | .00041 | .01207 | .03114 | 22.978 | .02431 | 30.505 | 3.9655 | .00045 | 18.664 | .00565 |
| #2 | .00041 | .01226 | .02950 | 23.030 | .02520 | 30.670 | 3.9042 | .00049 | 19.009 | .00553 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07172** | **-.00075** | **21.236** | **-.00108** | **.00306** | **7.8860** | **16.876** | **-.00095** | **.55692** | **-.00149** |
| Stddev | .00010 | .00049 | .124 | .00127 | .00021 | .0277 | .059 | .00057 | .00117 | .00164 |
| %RSD | .13557 | 64.726 | .58545 | 117.32 | 6.9439 | .35062 | .35062 | 60.784 | .21057 | 110.04 |
| #1 | .07179 | -.00041 | 21.324 | -.00198 | .00321 | 7.9056 | 16.918 | -.00135 | .55609 | -.00265 |
| #2 | .07165 | -.00109 | 21.148 | -.00018 | .00291 | 7.8665 | 16.834 | -.00054 | .55775 | -.00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00162** | **-.00214** | **.01644** | **.02398** | **.00068** |
| Stddev | .00010 | .00004 | .01651 | .00115 | .00007 | .00167 |
| %RSD | 26.857 | 2.4180 | 770.81 | 6.9833 | .29773 | 244.71 |
| #1 | .00044 | .00164 | .00953 | .01563 | .02403 | .00187 |
| #2 | .00030 | .00159 | -.01382 | .01725 | .02393 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7963.6** | **81149.** | **8111.7** |
| Stddev | .1 | 26. | 41.8 |
| %RSD | .00138 | .03202 | .51482 |
| #1 | 7963.6 | 81131. | 8141.3 |
| #2 | 7963.7 | 81167. | 8082.2 |

Sample Name: 280-42298-a-9-b  Acquired: 5/24/2013 1:33:13  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **.00348** | **-.00096** | **.26760** | **.10663** | **.00000** | **-.00378** | **106.20** | **.00093** | **.00064** |
| Stddev | .00026 | .00009 | .00017 | .00058 | .00015 | .00000 | .00066 | .10 | .00002 | .00026 |
| %RSD | 24.326 | 2.5663 | 17.569 | .21741 | .14357 | 67.010 | 17.592 | .09545 | 2.6654 | 40.860 |
| #1 | -.00126 | .00342 | -.00108 | .26719 | .10652 | .00001 | -.00331 | 106.13 | .00095 | .00082 |
| #2 | -.00089 | .00354 | -.00084 | .26801 | .10673 | .00000 | -.00425 | 106.27 | .00091 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00048** | **.01309** | **10.847** | **.02294** | **27.611** | **.33740** | **.00269** | **40.531** | **.00334** |
| Stddev | .00005 | .00039 | .00080 | .016 | .00288 | .041 | .00005 | .00028 | .153 | .00021 |
| %RSD | 15.510 | 80.722 | 6.1000 | .14693 | 12.559 | .14741 | .01621 | 10.290 | .37829 | 6.1493 |
| #1 | .00030 | .00021 | .01366 | 10.836 | .02091 | 27.582 | .33736 | .00250 | 40.639 | .00319 |
| #2 | .00038 | .00076 | .01253 | 10.858 | .02498 | 27.640 | .33744 | .00289 | 40.422 | .00348 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11831** | **-.00050** | **24.868** | **.00048** | **.00233** | **7.1094** | **15.214** | **-.00051** | **1.1773** | **-.00096** |
| Stddev | .00178 | .00050 | .083 | .00136 | .00032 | .0495 | .106 | .00003 | .0014 | .00017 |
| %RSD | 1.5044 | 100.09 | .33255 | 281.52 | 13.829 | .69643 | .69643 | 5.4553 | .11948 | 17.574 |
| #1 | .11705 | -.00086 | 24.810 | .00145 | .00256 | 7.0744 | 15.139 | -.00049 | 1.1763 | -.00084 |
| #2 | .11957 | -.00015 | 24.927 | -.00048 | .00211 | 7.1444 | 15.289 | -.00052 | 1.1783 | -.00108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.00130** | **.03959** | **.00194** | **.00603** | **.00037** |
| Stddev | .00045 | .00084 | .03865 | .00059 | .00015 | .00084 |
| %RSD | 134.98 | 64.624 | 97.618 | 30.267 | 2.4642 | 224.97 |
| #1 | -.00002 | .00071 | .01226 | .00235 | .00592 | -.00022 |
| #2 | -.00065 | .00190 | .06692 | .00152 | .00613 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7888.9** | **79869.** | **8073.8** |
| Stddev | 17.3 | 160. | 10.4 |
| %RSD | .21961 | .20010 | .12941 |
| #1 | 7876.7 | 79756. | 8066.4 |
| #2 | 7901.2 | 79982. | 8081.2 |

Sample Name: CCVH-2067278 Acquired: 5/24/2013 1:35:30 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00114** | **48.864** | **-.00064** | **.00570** | **-.00010** | **-.00002** | **1.0227** | **.00181** | **.00048** | **.00049** | **-.00018** | **-.00069** | **50.224** |
| Stddev | .00068 | .132 | .00075 | .00007 | .00002 | .00007 | .0063 | .00157 | .00005 | .00009 | .00014 | .00012 | .148 |
| %RSD | 59.357 | .26948 | 116.88 | 1.2036 | 25.312 | 310.91 | .61096 | 86.470 | 9.8469 | 18.567 | 78.999 | 17.095 | .29423 |
| #1 | -.00162 | 48.771 | -.00117 | .00565 | -.00008 | -.00007 | 1.0182 | .00292 | .00045 | .00042 | -.00028 | -.00078 | 50.120 |
| #2 | -.00066 | 48.957 | -.00011 | .00575 | -.00011 | .00003 | 1.0271 | .00070 | .00052 | .00055 | -.00008 | -.00061 | 50.329 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18914** | **.00176** | **.04190** | **.00014** | **-.00036** | **255.05** | **.00040** | **.00460** | **-.00273** | **4.8874** | **-.00279** | **.00426** | **.01422** |
| Stddev | .08233 | .00058 | .00218 | .00003 | .00001 | .71 | .00067 | .00029 | .00204 | .0076 | .00013 | .00114 | .01182 |
| %RSD | 43.529 | 32.799 | 5.1929 | 22.586 | 4.0423 | .27920 | 166.84 | 6.2350 | 74.763 | .15516 | 4.6220 | 26.808 | 83.113 |
| #1 | .13092 | .00217 | .04036 | .00011 | -.00037 | 254.54 | -.00007 | .00480 | -.00417 | 4.8821 | -.00288 | .00345 | .02257 |
| #2 | .24735 | .00135 | .04344 | .00016 | -.00035 | 255.55 | .00087 | .00440 | -.00129 | 4.8928 | -.00270 | .00507 | .00586 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03042** | **-.00096** | **.00041** | **4.8904** | **.00278** | **.00087** | **10.483** | **-.00013** | **.00150** | **-.00415** |
| Stddev | .02529 | .00018 | .00009 | .0076 | .00101 | .00112 | .042 | .00010 | .00020 | .00060 |
| %RSD | 83.113 | 19.122 | 22.391 | .15568 | 36.491 | 128.79 | .40001 | 78.992 | 13.534 | 14.464 |
| #1 | .04830 | -.00083 | .00047 | 4.8850 | .00350 | .00166 | 10.453 | -.00020 | .00164 | -.00457 |
| #2 | .01254 | -.00109 | .00034 | 4.8958 | .00206 | .00008 | 10.512 | -.00006 | .00136 | -.00372 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7908.6** | **78585.** | **7955.7** |
| Stddev | 18.0 | 499. | 100.7 |
| %RSD | .22710 | .63551 | 1.2651 |
| #1 | 7895.9 | 78938. | 8026.8 |
| #2 | 7921.3 | 78232. | 7884.5 |

Sample Name: CCV-2064677 Acquired: 5/24/2013 1:37:48 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52011** | **.51629** | **1.0117** | **.51793** | **.49378** | **.47559** | **.00135** | **4.8626** | **.49209** | **.50260** | **.51622** | **.50372** | **2.3932** | **48.525** |
| Stddev | .00026 | .00055 | .0042 | .00087 | .00139 | .00050 | .00238 | .0204 | .00017 | .00013 | .00022 | .00112 | .0064 | .112 |
| %RSD | .04937 | .10688 | .41742 | .16732 | .28160 | .10487 | 177.06 | .41923 | .03525 | .02537 | .04341 | .22179 | .26694 | .23161 |
| #1 | .52029 | .51590 | 1.0087 | .51732 | .49279 | .47524 | .00303 | 4.8482 | .49221 | .50269 | .51606 | .50293 | 2.3886 | 48.445 |
| #2 | .51993 | .51668 | 1.0147 | .51854 | .49476 | .47595 | -.00034 | 4.8770 | .49196 | .50251 | .51637 | .50451 | 2.3977 | 48.604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94461** | **20.022** | **.49515** | **.51004** | **4.9334** | **.52095** | **1.0152** | **.98556** | **.04348** | **.99862** | **1.0207** | **5.1700** | **11.064** | **1.0162** |
| Stddev | .00365 | .009 | .00025 | .00045 | .0098 | .00055 | .0013 | .00354 | .00003 | .00278 | .0013 | .0514 | .110 | .0029 |
| %RSD | .38649 | .04476 | .05035 | .08914 | .19852 | .10619 | .12766 | .35919 | .06918 | .27788 | .12670 | .99364 | .99364 | .28444 |
| #1 | .94203 | 20.016 | .49533 | .51037 | 4.9403 | .52056 | 1.0143 | .98806 | .04350 | 1.0006 | 1.0216 | 5.1337 | 10.986 | 1.0182 |
| #2 | .94719 | 20.028 | .49498 | .50972 | 4.9264 | .52134 | 1.0161 | .98305 | .04346 | .99665 | 1.0198 | 5.2063 | 11.142 | 1.0141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49230** | **.00208** | **.50253** | **1.0103** | **.00484** | **.48215** | **.50688** | **.49604** |
| Stddev | .00099 | .00316 | .00039 | .0027 | .06062 | .00075 | .00132 | .00513 |
| %RSD | .20170 | 151.94 | .07720 | .26636 | 1252.8 | .15509 | .25988 | 1.0344 |
| #1 | .49160 | .00431 | .50281 | 1.0122 | -.03802 | .48162 | .50595 | .49242 |
| #2 | .49300 | -.00015 | .50226 | 1.0084 | .04770 | .48267 | .50781 | .49967 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8147.5** | **82279.** | **8182.2** |
| Stddev | 14.2 | 4. | 54.8 |
| %RSD | .17395 | .00465 | .67019 |
| #1 | 8137.5 | 82282. | 8221.0 |
| #2 | 8157.5 | 82276. | 8143.5 |

Sample Name: CCB Acquired: 5/24/2013 1:39:55 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **.00092** | **-.00082** | **.00431** | **.00004** | **.00010** | **.00125** | **.00387** | **-.00012** | **.00019** | **.00013** | **-.00035** |
| Stddev | .00089 | .00019 | .00336 | .00010 | .00008 | .00005 | .00103 | .00657 | .00003 | .00007 | .00008 | .00035 |
| %RSD | 150.30 | 21.248 | 412.21 | 2.3930 | 226.76 | 47.785 | 82.237 | 169.91 | 26.986 | 35.807 | 62.471 | 100.42 |
| #1 | .00004 | .00078 | -.00319 | .00438 | -.00002 | .00007 | .00053 | -.00078 | -.00014 | .00014 | .00008 | -.00060 |
| #2 | -.00122 | .00105 | .00156 | .00424 | .00010 | .00014 | .00198 | .00852 | -.00010 | .00023 | .00019 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00243** | **.11570** | **.00111** | **.00251** | **.00006** | **.00058** | **.08318** | **-.00001** | **.00055** | **-.00055** | **.04782** | W **.00414** |
| Stddev | .00096 | .05297 | .00192 | .00052 | .00002 | .00026 | .00444 | .00030 | .00154 | .00108 | .00063 | .00090 |
| %RSD | 39.538 | 45.779 | 172.34 | 20.758 | 30.285 | 45.658 | 5.3353 | 2449.9 | 282.43 | 195.53 | 1.3096 | 21.706 |
| #1 | .00175 | .15315 | -.00024 | .00288 | .00007 | .00039 | .08004 | .00020 | .00164 | .00021 | .04826 | .00351 |
| #2 | .00311 | .07825 | .00247 | .00214 | .00004 | .00077 | .08632 | -.00023 | -.00055 | -.00131 | .04737 | .00478 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.01972** | **.04220** | **-.00020** | **.00005** | **.00193** | **-.00016** | **.00064** | **-.00598** | **-.00017** | **.00249** | **.00215** |
| Stddev | .00145 | .02035 | .04355 | .00001 | .00010 | .00019 | .00019 | .00152 | .05220 | .00036 | .00019 | .00099 |
| %RSD | 149.39 | 103.20 | 103.20 | 3.9902 | 179.41 | 9.6034 | 118.20 | 236.82 | 873.59 | 216.54 | 7.5488 | 46.092 |
| #1 | -.00005 | .00533 | .01140 | -.00021 | -.00001 | .00206 | -.00029 | -.00043 | -.04289 | .00009 | .00263 | .00284 |
| #2 | .00200 | .03411 | .07300 | -.00020 | .00012 | .00180 | -.00003 | .00172 | .03094 | -.00042 | .00236 | .00145 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8094.5** | **83536.** | **8068.7** |
| Stddev | 1.2 | 107. | .1 |
| %RSD | .01501 | .12767 | .00127 |
| #1 | 8095.3 | 83611. | 8068.8 |
| #2 | 8093.6 | 83460. | 8068.6 |

Sample Name: CCVL2067279[illegible] Acquired: 5/24/2013 1:42:10 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01008** | **.10792** | **.01512** | **.10917** | **.01003** | **.00095** | **.11848** | **.20092** | **.00513** | **.01080** | **.01065** | **.01585** | **.09865** |
| Stddev | .00029 | .00014 | .00158 | .00105 | .00004 | .00002 | .00055 | .00381 | .00001 | .00010 | .00006 | .00010 | .00344 |
| %RSD | 2.9170 | .12647 | 10.428 | .96030 | .35196 | 1.6350 | .46321 | 1.8965 | .19243 | .88285 | .56383 | .59988 | 3.4821 |
| #1 | .01029 | .10801 | .01624 | .10991 | .01000 | .00096 | .11887 | .19823 | .00512 | .01087 | .01069 | .01592 | .09622 |
| #2 | .00987 | .10782 | .01401 | .10843 | .01005 | .00094 | .11809 | .20362 | .00514 | .01073 | .01061 | .01578 | .10108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0695** | **.01188** | **.21660** | **.01029** | **.02117** | **1.0933** | **.04332** | **3.0322** | **.00831** | **.03826** | **.01053** | **.01919** | **.55104** |
| Stddev | .0840 | .00318 | .00006 | .00001 | .00002 | .0200 | .00019 | .0012 | .00103 | .00257 | .00052 | .00048 | .01103 |
| %RSD | 2.7356 | 26.785 | .02975 | .10312 | .10356 | 1.8319 | .42837 | .03841 | 12.375 | 6.7114 | 4.9213 | 2.4764 | 2.0009 |
| #1 | 3.1289 | .00963 | .21656 | .01029 | .02115 | 1.1075 | .04345 | 3.0330 | .00903 | .04008 | .01017 | .01952 | .55884 |
| #2 | 3.0101 | .01413 | .21665 | .01028 | .02118 | 1.0791 | .04319 | 3.0314 | .00758 | .03644 | .01090 | .01885 | .54325 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1792** | **.10693** | **.01009** | **.01549** | **.00977** | **.01628** | F **.09671** | **.00945** | **.02321** | **.01432** |
| Stddev | .0236 | .00051 | .00006 | .00354 | .00013 | .00001 | .03188 | .00006 | .00004 | .00090 |
| %RSD | 2.0009 | .47556 | .58644 | 22.820 | 1.3499 | .08152 | 32.963 | .68690 | .18157 | 6.2547 |
| #1 | 1.1959 | .10657 | .01005 | .01299 | .00968 | .01629 | .11926 | .00940 | .02318 | .01495 |
| #2 | 1.1626 | .10729 | .01013 | .01800 | .00986 | .01627 | .07417 | .00949 | .02324 | .01368 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8236.5** | **84620.** | **8133.3** |
| Stddev | 16.6 | 755. | 42.4 |
| %RSD | .20137 | .89263 | .52100 |
| #1 | 8248.2 | 85154. | 8163.3 |
| #2 | 8224.8 | 84086. | 8103.3 |

Sample Name: 280-42299-a-2-b  Acquired: 5/24/2013 1:44:26  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00185** | **.00543** | **.01203** | **.07655** | **.04691** | **.00004** | **-.00293** | **15.743** | **.00083** | **.00417** |
| Stddev | .00079 | .00003 | .00071 | .00052 | .00003 | .00001 | .00001 | .029 | .00005 | .00003 |
| %RSD | 42.799 | .59504 | 5.8710 | .67890 | .06512 | 13.569 | .36559 | .18441 | 6.0958 | .82960 |
| #1 | -.00129 | .00541 | .01253 | .07692 | .04693 | .00005 | -.00294 | 15.764 | .00086 | .00414 |
| #2 | -.00240 | .00546 | .01153 | .07619 | .04689 | .00004 | -.00292 | 15.723 | .00079 | .00419 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **.00194** | **3.5352** | W **168.57** | **.01300** | **10.298** | W **18.402** | **.11606** | **66.095** | **.02383** |
| Stddev | .00017 | .00035 | .0120 | .48 | .00225 | .014 | .124 | .00002 | .250 | .00026 |
| %RSD | 22.287 | 17.918 | .33820 | .28554 | 17.320 | .13769 | .67245 | .01446 | .37768 | 1.0736 |
| #1 | .00091 | .00219 | 3.5437 | 168.91 | .01460 | 10.288 | 18.315 | .11608 | 65.918 | .02365 |
| #2 | .00066 | .00170 | 3.5267 | 168.23 | .01141 | 10.308 | 18.490 | .11605 | 66.271 | .02401 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 100.00 | | | 10.000 | | | |
| Low Limit | | | | -.50000 | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19981** | **.00233** | **2.1278** | **.00094** | **.00792** | **17.920** | **38.349** | **.00002** | **.17780** | **-.00112** |
| Stddev | .00050 | .00031 | .0072 | .00234 | .00196 | .036 | .076 | .00002 | .00045 | .00128 |
| %RSD | .25153 | 13.370 | .33660 | 249.90 | 24.771 | .19850 | .19850 | 102.15 | .25398 | 114.20 |
| #1 | .19945 | .00255 | 2.1329 | .00259 | .00930 | 17.895 | 38.296 | .00004 | .17812 | -.00202 |
| #2 | .20016 | .00211 | 2.1228 | -.00072 | .00653 | 17.945 | 38.403 | .00001 | .17748 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00967** | **-.01087** | **.06966** | **.01168** | **.00150** |
| Stddev | .00005 | .00081 | .01421 | .00031 | .00028 | .00081 |
| %RSD | 17.264 | 8.3804 | 130.67 | .45134 | 2.4212 | 53.711 |
| #1 | .00031 | .00910 | -.02092 | .06944 | .01148 | .00208 |
| #2 | .00024 | .01024 | -.00083 | .06989 | .01188 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8036.1** | **80806.** | **8392.0** |
| Stddev | 18.7 | 183. | 10.1 |
| %RSD | .23288 | .22695 | .11994 |
| #1 | 8022.9 | 80935. | 8384.9 |
| #2 | 8049.3 | 80676. | 8399.1 |

Sample Name: 280-42299-a-3-b  Acquired: 5/24/2013 1:46:47  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00189** | **.00478** | **.00769** | **.06116** | **.03554** | **.00007** | **-.00389** | **11.545** | **.00081** | **.00295** |
| Stddev | .00040 | .00016 | .00084 | .00046 | .00045 | .00001 | .00207 | .017 | .00038 | .00001 |
| %RSD | 21.020 | 3.2505 | 10.887 | .76004 | 1.2697 | 10.665 | 53.252 | .14450 | 46.536 | .42694 |
| #1 | -.00161 | .00489 | .00828 | .06083 | .03522 | .00008 | -.00536 | 11.533 | .00108 | .00294 |
| #2 | -.00217 | .00467 | .00710 | .06149 | .03586 | .00007 | -.00243 | 11.557 | .00054 | .00296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00187** | **3.2787** | W **133.86** | **.01295** | **7.4010** | W **13.293** | **.09739** | **50.397** | **.01740** |
| Stddev | .00007 | .00018 | .0086 | .37 | .00095 | .0052 | .098 | .00003 | .248 | .00032 |
| %RSD | 11.257 | 9.5985 | .26343 | .27566 | 7.3430 | .07009 | .73968 | .03258 | .49171 | 1.8462 |
| #1 | .00054 | .00200 | 3.2725 | 133.60 | .01363 | 7.3974 | 13.223 | .09737 | 50.222 | .01762 |
| #2 | .00063 | .00174 | 3.2848 | 134.13 | .01228 | 7.4047 | 13.362 | .09742 | 50.572 | .01717 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 100.00 | | | 10.000 | | | |
| Low Limit | | | | -.50000 | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17418** | **.00082** | **1.8974** | **.00111** | **.00801** | **13.131** | **28.100** | **-.00009** | **.12663** | **-.00193** |
| Stddev | .00030 | .00025 | .0109 | .00133 | .00167 | .030 | .064 | .00002 | .00029 | .00020 |
| %RSD | .17256 | 30.817 | .57530 | 120.43 | 20.834 | .22950 | .22950 | 24.884 | .22928 | 10.159 |
| #1 | .17397 | .00064 | 1.8897 | .00205 | .00919 | 13.152 | 28.145 | -.00010 | .12643 | -.00179 |
| #2 | .17439 | .00099 | 1.9052 | .00016 | .00683 | 13.109 | 28.054 | -.00007 | .12684 | -.00207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **.00588** | **-.01746** | **.05136** | **.01210** | **.00180** |
| Stddev | .00049 | .00051 | .00555 | .00029 | .00024 | .00040 |
| %RSD | 99.359 | 8.6501 | 31.783 | .56854 | 1.9772 | 22.463 |
| #1 | -.00085 | .00552 | -.01354 | .05115 | .01227 | .00209 |
| #2 | -.00015 | .00624 | -.02139 | .05156 | .01193 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8183.8** | **82482.** | **8466.0** |
| Stddev | 4.5 | 149. | 43.7 |
| %RSD | .05486 | .18063 | .51594 |
| #1 | 8180.6 | 82376. | 8435.1 |
| #2 | 8187.0 | 82587. | 8496.9 |

Sample Name: 280-42299-a-3-bSD@5 Acquired: 5/24/2013 1:49:08 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175546 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00078** | **.00330** | **.00515** | **.01853** | **.00969** | **.00008** | **-.00066** | **3.2071** | **.00027** | **.00072** |
| Stddev | .00024 | .00019 | .00225 | .00050 | .00005 | .00003 | .00037 | .0050 | .00019 | .00007 |
| %RSD | 31.327 | 5.8682 | 43.692 | 2.7189 | .53359 | 37.958 | 56.798 | .15604 | 68.236 | 9.2464 |
| #1 | -.00060 | .00344 | .00356 | .01818 | .00972 | .00006 | -.00092 | 3.2107 | .00014 | .00076 |
| #2 | -.00095 | .00316 | .00675 | .01889 | .00965 | .00010 | -.00039 | 3.2036 | .00041 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00059** | **.94745** | **37.128** | **.00222** | **2.0621** | **3.7981** | **.02683** | **13.569** | **.00495** |
| Stddev | .00002 | .00015 | .00059 | .059 | .00053 | .0024 | .0371 | .00005 | .150 | .00009 |
| %RSD | 9.1247 | 25.088 | .06212 | .15808 | 23.737 | .11802 | .97774 | .19267 | 1.1019 | 1.8713 |
| #1 | .00024 | .00048 | .94703 | 37.169 | .00260 | 2.0638 | 3.8243 | .02687 | 13.463 | .00502 |
| #2 | .00027 | .00069 | .94786 | 37.086 | .00185 | 2.0604 | 3.7718 | .02679 | 13.675 | .00488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04635** | **-.00087** | **.52872** | **.00057** | **.00413** | **3.5680** | **7.6356** | **-.00050** | **.03516** | **-.00081** |
| Stddev | .00021 | .00016 | .00011 | .00105 | .00033 | .0076 | .0163 | .00012 | .00019 | .00277 |
| %RSD | .44994 | 18.108 | .02076 | 183.25 | 7.8835 | .21309 | .21309 | 23.224 | .55413 | 340.56 |
| #1 | .04620 | -.00076 | .52879 | -.00017 | .00390 | 3.5627 | 7.6241 | -.00058 | .03503 | -.00277 |
| #2 | .04649 | -.00098 | .52864 | .00132 | .00436 | 3.5734 | 7.6471 | -.00042 | .03530 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00065** | **.00270** | **.02061** | **.01522** | **.00875** | **.00137** |
| Stddev | .00031 | .00069 | .03143 | .00010 | .00118 | .00125 |
| %RSD | 47.736 | 25.655 | 152.52 | .62979 | 13.526 | 91.168 |
| #1 | -.00087 | .00221 | .04283 | .01516 | .00791 | .00049 |
| #2 | -.00043 | .00319 | -.00162 | .01529 | .00958 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8186.2** | **83523.** | **8342.9** |
| Stddev | 12.9 | 213. | 54.0 |
| %RSD | .15738 | .25490 | .64721 |
| #1 | 8195.3 | 83673. | 8381.1 |
| #2 | 8177.1 | 83372. | 8304.7 |

Sample Name: 280-42299-a-3-c ms  Acquired: 5/24/2013 1:51:31  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04284** | **1.5693** | **.85037** | **.91855** | **1.6395** | **.03894** | F **1.7937** | **51.456** | **.08223** | **.39813** |
| Stddev | .00020 | .0009 | .00122 | .00323 | .0003 | .00009 | .0001 | .007 | .00019 | .00036 |
| %RSD | .47796 | .05541 | .14323 | .35186 | .01893 | .22488 | .00278 | .01326 | .22959 | .08959 |
| #1 | .04298 | 1.5699 | .85123 | .91626 | 1.6393 | .03888 | 1.7937 | 51.451 | .08236 | .39788 |
| #2 | .04269 | 1.5687 | .84951 | .92083 | 1.6398 | .03901 | 1.7936 | 51.461 | .08209 | .39839 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16603** | **.20775** | **4.2843** | W **183.88** | **.76899** | **47.755** | W **14.536** | **.94953** | **96.190** | **.42829** |
| Stddev | .00056 | .00035 | .0050 | .29 | .00085 | .252 | .168 | .00043 | .426 | .00029 |
| %RSD | .33564 | .17001 | .11592 | .15509 | .11037 | .52775 | 1.1545 | .04500 | .44247 | .06767 |
| #1 | .16643 | .20800 | 4.2808 | 184.08 | .76839 | 47.933 | 14.655 | .94923 | 96.491 | .42850 |
| #2 | .16564 | .20750 | 4.2878 | 183.67 | .76959 | 47.576 | 14.418 | .94984 | 95.889 | .42809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 100.00 | | | 10.000 | | | |
| Low Limit | | | | -.50000 | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.7259** | **.38842** | **2.0546** | **.43940** | **1.7172** | **22.874** | **48.951** | **1.6475** | **.93401** | **.80947** |
| Stddev | .0127 | .00197 | .0002 | .00303 | .0101 | .002 | .005 | .0011 | .00017 | .00350 |
| %RSD | .14581 | .50786 | .00981 | .68875 | .58644 | .00927 | .00927 | .06942 | .01788 | .43199 |
| #1 | 8.7169 | .38981 | 2.0548 | .43726 | 1.7100 | 22.873 | 48.948 | 1.6483 | .93412 | .81194 |
| #2 | 8.7349 | .38702 | 2.0545 | .44154 | 1.7243 | 22.876 | 48.955 | 1.6467 | .93389 | .80700 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.83714** | **1.5393** | **1.7454** | **.44883** | **.41720** | **.40978** |
| Stddev | .00240 | .0036 | .0363 | .00151 | .00331 | .00017 |
| %RSD | .28615 | .23617 | 2.0807 | .33544 | .79364 | .04252 |
| #1 | .83883 | 1.5419 | 1.7711 | .44990 | .41954 | .40991 |
| #2 | .83545 | 1.5367 | 1.7197 | .44777 | .41485 | .40966 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8033.7** | **80768.** | **8273.0** |
| Stddev | 32.3 | 399. | 16.2 |
| %RSD | .40180 | .49458 | .19533 |
| #1 | 8010.9 | 80485. | 8261.5 |
| #2 | 8056.6 | 81050. | 8284.4 |

Sample Name: 280-42299-a-3-d msd  Acquired: 5/24/2013 1:53:41  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04572** | **1.6983** | **.92846** | **1.0049** | **1.7902** | **.04241** | F **1.9548** | **55.986** | **.08971** | **.43352** |
| Stddev | .00009 | .0006 | .00387 | .0005 | .0106 | .00023 | .0004 | .060 | .00029 | .00063 |
| %RSD | .19915 | .03307 | .41676 | .05364 | .59082 | .53297 | .01818 | .10751 | .32200 | .14546 |
| #1 | .04566 | 1.6979 | .92572 | 1.0053 | 1.7827 | .04225 | 1.9551 | 55.944 | .08992 | .43396 |
| #2 | .04579 | 1.6987 | .93119 | 1.0046 | 1.7976 | .04257 | 1.9546 | 56.029 | .08951 | .43307 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18102** | **.22667** | **4.6400** | W **198.80** | **.83472** | **51.899** | W **15.656** | **1.0409** | **104.19** | **.46564** |
| Stddev | .00011 | .00143 | .0075 | .33 | .00390 | .195 | .076 | .0011 | .47 | .00086 |
| %RSD | .06213 | .62871 | .16198 | .16429 | .46697 | .37586 | .48853 | .10911 | .45276 | .18392 |
| #1 | .18110 | .22768 | 4.6347 | 198.57 | .83196 | 52.037 | 15.710 | 1.0417 | 103.86 | .46504 |
| #2 | .18094 | .22567 | 4.6453 | 199.03 | .83747 | 51.761 | 15.602 | 1.0401 | 104.52 | .46625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 100.00 | | | 10.000 | | | |
| Low Limit | | | | -.50000 | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.5268** | **.42206** | **2.2141** | **.48202** | **1.8705** | **24.768** | **53.003** | **1.8030** | **1.0183** | **.88058** |
| Stddev | .0117 | .00039 | .0054 | .00272 | .0030 | .032 | .068 | .0024 | .0045 | .00412 |
| %RSD | .12248 | .09311 | .24389 | .56487 | .16234 | .12857 | .12857 | .13123 | .44012 | .46812 |
| #1 | 9.5350 | .42179 | 2.2180 | .48010 | 1.8726 | 24.790 | 53.051 | 1.8013 | 1.0151 | .88349 |
| #2 | 9.5185 | .42234 | 2.2103 | .48395 | 1.8683 | 24.745 | 52.954 | 1.8046 | 1.0215 | .87766 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.91976** | **1.6668** | **1.9263** | **.48977** | **.45436** | **.45163** |
| Stddev | .00202 | .0001 | .0483 | .00165 | .00238 | .00322 |
| %RSD | .21948 | .00761 | 2.5087 | .33715 | .52302 | .71188 |
| #1 | .92118 | 1.6667 | 1.8921 | .49093 | .45604 | .44935 |
| #2 | .91833 | 1.6669 | 1.9605 | .48860 | .45268 | .45390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8015.8** | **80198.** | **8346.8** |
| Stddev | 7.0 | 367. | 11.0 |
| %RSD | .08789 | .45715 | .13145 |
| #1 | 8010.8 | 79939. | 8354.6 |
| #2 | 8020.8 | 80458. | 8339.0 |

Sample Name: 280-42299-a-4-e  Acquired: 5/24/2013 1:55:53  Type: Unk
Method: 6500_025(v11)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175546  6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00114** | **.00275** | **-.00017** | **.27174** | **.48947** | **.00001** | **-.00142** | **96.577** | **.00096** | **.00141** |
| Stddev | .00053 | .00003 | .00149 | .00049 | .00012 | .00003 | .00071 | .085 | .00009 | .00005 |
| %RSD | 46.730 | 1.2259 | 897.84 | .17897 | .02407 | 225.46 | 50.048 | .08812 | 9.6645 | 3.7960 |
| #1 | -.00152 | .00277 | -.00122 | .27139 | .48939 | .00003 | -.00092 | 96.517 | .00089 | .00145 |
| #2 | -.00076 | .00272 | .00089 | .27208 | .48955 | -.00001 | -.00192 | 96.638 | .00102 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00037** | **.12030** | **84.203** | **.02556** | **36.568** | **6.8967** | **.01148** | **45.890** | **.00871** |
| Stddev | .00002 | .00018 | .00209 | .077 | .00376 | .111 | .0225 | .00001 | .015 | .00037 |
| %RSD | 3.2844 | 48.471 | 1.7409 | .09162 | 14.712 | .30329 | .32551 | .09780 | .03237 | 4.2221 |
| #1 | .00056 | .00025 | .11881 | 84.257 | .02290 | 36.490 | 6.9126 | .01147 | 45.879 | .00897 |
| #2 | .00054 | .00050 | .12178 | 84.148 | .02822 | 36.647 | 6.8808 | .01149 | 45.900 | .00845 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12297** | **-.00058** | **13.976** | **.00009** | **.00328** | **11.527** | **24.668** | **-.00021** | **1.0487** | **.00050** |
| Stddev | .00103 | .00190 | .007 | .00317 | .00162 | .014 | .029 | .00003 | .0006 | .00167 |
| %RSD | .83798 | 329.33 | .05214 | 3642.2 | 49.299 | .11856 | .11856 | 13.685 | .05408 | 334.38 |
| #1 | .12224 | .00076 | 13.981 | -.00215 | .00214 | 11.518 | 24.648 | -.00019 | 1.0483 | -.00068 |
| #2 | .12370 | -.00192 | 13.971 | .00233 | .00442 | 11.537 | 24.689 | -.00023 | 1.0491 | .00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **.00419** | **-.02220** | **.02634** | **.00830** | **.00109** |
| Stddev | .00033 | .00158 | .00632 | .00012 | .00019 | .00111 |
| %RSD | 47.270 | 37.661 | 28.453 | .45609 | 2.2680 | 101.51 |
| #1 | -.00093 | .00307 | -.02667 | .02625 | .00843 | .00187 |
| #2 | -.00046 | .00530 | -.01774 | .02642 | .00816 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7896.9** | **80312.** | **8216.4** |
| Stddev | 9.7 | 183. | 9.5 |
| %RSD | .12338 | .22826 | .11553 |
| #1 | 7903.8 | 80442. | 8223.1 |
| #2 | 7890.0 | 80182. | 8209.7 |

Sample Name: CCVH-2067278 Acquired: 5/24/2013 1:58:14 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00147** | **48.843** | **.00278** | **.00570** | **.00021** | **.00005** | **1.0334** | **.00314** | **.00047** | **.00032** | **-.00009** | **-.00096** |
| Stddev | .00025 | .114 | .00186 | .00093 | .00061 | .00002 | .0018 | .00358 | .00001 | .00030 | .00008 | .00020 |
| %RSD | 16.974 | .23396 | 67.036 | 16.358 | 292.46 | 42.304 | .17578 | 114.28 | 2.4877 | 92.264 | 82.017 | 21.239 |
| #1 | -.00164 | 48.923 | .00409 | .00636 | .00064 | .00007 | 1.0347 | .00060 | .00048 | .00054 | -.00004 | -.00082 |
| #2 | -.00129 | 48.762 | .00146 | .00504 | -.00022 | .00004 | 1.0321 | .00567 | .00046 | .00011 | -.00014 | -.00111 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.407** | **.41736** | **.00167** | **.04545** | **.00071** | **-.00028** | **256.06** | **.00033** | **.00468** | **-.00229** | **4.9011** | **-.00271** |
| Stddev | .052 | .04370 | .00280 | .00369 | .00005 | .00035 | .04 | .00001 | .00085 | .00003 | .0022 | .00262 |
| %RSD | .10315 | 10.472 | 167.15 | 8.1219 | 6.4695 | 121.67 | .01503 | 4.0278 | 18.128 | 1.1102 | .04378 | 96.468 |
| #1 | 50.370 | .44827 | .00365 | .04284 | .00068 | -.00053 | 256.08 | .00034 | .00528 | -.00231 | 4.8996 | -.00086 |
| #2 | 50.444 | .38646 | -.00030 | .04806 | .00074 | -.00004 | 256.03 | .00032 | .00408 | -.00227 | 4.9026 | -.00456 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00319** | **.02059** | **.04405** | **.00011** | **.00040** | **4.9081** | **.00291** | **.00125** | W **10.531** | **-.00119** | **.00128** | **-.00515** |
| Stddev | .00360 | .01180 | .02525 | .00015 | .00008 | .0125 | .00023 | .00060 | .019 | .00089 | .00010 | .00221 |
| %RSD | 112.80 | 57.319 | 57.319 | 139.28 | 20.243 | .25546 | 7.8912 | 48.173 | .18252 | 74.634 | 7.9193 | 42.890 |
| #1 | .00574 | .02893 | .06191 | .00000 | .00035 | 4.8993 | .00275 | .00082 | 10.517 | -.00056 | .00121 | -.00359 |
| #2 | .00065 | .01224 | .02620 | .00022 | .00046 | 4.9170 | .00307 | .00167 | 10.545 | -.00182 | .00136 | -.00671 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7913.1** | **78926.** | **8043.3** |
| Stddev | 34.4 | 270. | 13.6 |
| %RSD | .43442 | .34170 | .16871 |
| #1 | 7888.8 | 79116. | 8052.9 |
| #2 | 7937.4 | 78735. | 8033.7 |

Sample Name: CCV-2064677 Acquired: 5/24/2013 2:00:28 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52092** | **.51897** | **1.0149** | **.51956** | **.49949** | **.47974** | **.00154** | **4.8745** | **.49213** | **.50429** | **.52069** | **.50364** | **2.3942** | **48.636** |
| Stddev | .00064 | .00130 | .0037 | .00215 | .00059 | .00087 | .00132 | .0033 | .00140 | .00001 | .00047 | .00077 | .0134 | .078 |
| %RSD | .12276 | .25127 | .36322 | .41297 | .11821 | .18064 | 85.775 | .06784 | .28440 | .00126 | .09092 | .15278 | .55793 | .16017 |
| #1 | .52137 | .51989 | 1.0123 | .52107 | .49990 | .48035 | .00247 | 4.8768 | .49312 | .50430 | .52102 | .50418 | 2.4036 | 48.691 |
| #2 | .52047 | .51805 | 1.0175 | .51804 | .49907 | .47913 | .00061 | 4.8721 | .49114 | .50429 | .52035 | .50310 | 2.3848 | 48.581 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95122** | **20.011** | **.49470** | **.51294** | **4.9776** | **.52432** | **1.0164** | **.98758** | **.03555** | **.99833** | **1.0267** | **5.2330** | **11.199** | **1.0194** |
| Stddev | .00410 | .106 | .00111 | .00166 | .0323 | .00082 | .0005 | .00015 | .00069 | .00238 | .0064 | .0137 | .029 | .0036 |
| %RSD | .43114 | .52787 | .22412 | .32459 | .64885 | .15688 | .04931 | .01533 | 1.9276 | .23792 | .62087 | .26262 | .26262 | .35241 |
| #1 | .95412 | 19.936 | .49392 | .51411 | 5.0004 | .52490 | 1.0161 | .98769 | .03507 | 1.0000 | 1.0312 | 5.2427 | 11.219 | 1.0220 |
| #2 | .94832 | 20.085 | .49549 | .51176 | 4.9547 | .52374 | 1.0168 | .98747 | .03603 | .99665 | 1.0222 | 5.2232 | 11.178 | 1.0169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49629** | **.00148** | **.50254** | **1.0128** | **.05220** | **.48285** | **.50639** | **.49861** |
| Stddev | .00132 | .00165 | .00037 | .0022 | .00487 | .00292 | .00314 | .00309 |
| %RSD | .26614 | 111.90 | .07277 | .21543 | 9.3361 | .60392 | .62106 | .61906 |
| #1 | .49723 | .00264 | .50280 | 1.0143 | .05565 | .48079 | .50416 | .49643 |
| #2 | .49536 | .00031 | .50228 | 1.0112 | .04876 | .48491 | .50861 | .50079 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8082.1** | **82838.** | **8223.7** |
| Stddev | 9.7 | 886. | 10.6 |
| %RSD | .12029 | 1.0693 | .12948 |
| #1 | 8075.2 | 83464. | 8231.2 |
| #2 | 8089.0 | 82211. | 8216.2 |

Sample Name: CCB Acquired: 5/24/2013 2:02:34 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00083** | **.00010** | **-.00091** | **.00359** | **.00009** | **.00005** | **-.00440** | **-.00070** | **.00007** | **.00000** | **.00016** |
| Stddev | .00078 | .00014 | .00109 | .00027 | .00004 | .00003 | .00038 | .00066 | .00014 | .0002 | .00003 |
| %RSD | 93.691 | 145.66 | 120.14 | 7.5342 | 43.439 | 54.400 | 8.5912 | 94.990 | 196.64 | 29348. | 16.175 |
| #1 | -.00028 | .00020 | -.00168 | .00340 | .00006 | .00007 | -.00413 | -.00117 | .00017 | -.00012 | .00014 |
| #2 | -.00139 | .00000 | -.00014 | .00378 | .00012 | .00003 | -.00467 | -.00023 | -.00003 | .00012 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | **-.00025** | F **.28145** | **.00035** | **.00353** | **.00021** | **.00049** | **.07245** | **.00002** | **.00145** | **-.00120** |
| Stddev | .00011 | .00088 | .01087 | .00200 | .00107 | .00000 | .00011 | .00720 | .00016 | .00069 | .00032 |
| %RSD | 21.342 | 352.03 | 3.8638 | 573.21 | 30.227 | 1.8534 | 23.027 | 9.9347 | 835.11 | 47.878 | 26.501 |
| #1 | -.00060 | .00037 | .28914 | -.00106 | .00277 | .00021 | .00041 | .07754 | -.00010 | .00096 | -.00143 |
| #2 | -.00044 | -.00087 | .27376 | .00176 | .00428 | .00021 | .00057 | .06736 | .00013 | .00194 | -.00098 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | | | | | | |
| Low Limit | | | -.25000 | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03975** | W **.00535** | W **.00609** | **.01157** | **.02477** | **.00017** | **.00006** | **.00160** | W **-.00077** | **-.00037** | **-.02335** |
| Stddev | .00036 | .00159 | .00434 | .00754 | .01614 | .00102 | .00003 | .00197 | .00039 | .00015 | .03326 |
| %RSD | .91149 | 29.749 | 71.274 | 65.178 | 65.178 | 585.75 | 46.229 | 122.98 | 50.827 | 41.534 | 142.45 |
| #1 | .03950 | .00422 | .00302 | .00624 | .01335 | -.00055 | .00004 | .00300 | -.00049 | -.00026 | -.04686 |
| #2 | .04001 | .00647 | .00916 | .01691 | .03619 | .00090 | .00008 | .00021 | -.00104 | -.00048 | .00017 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | .00314 | .00486 | | | | | | .00060 | | |
| Low Limit | | -.00314 | -.00486 | | | | | | -.00060 | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00032** | **.00220** | **-.00057** |
| Stddev | .00022 | .00027 | .00125 |
| %RSD | 67.761 | 12.332 | 218.14 |
| #1 | -.00017 | .00239 | -.00146 |
| #2 | -.00048 | .00200 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8038.9** | **82625.** | **8048.2** |
| Stddev | 8.4 | 199. | 6.0 |
| %RSD | .10444 | .24076 | .07510 |
| #1 | 8033.0 | 82765. | 8043.9 |
| #2 | 8044.9 | 82484. | 8052.5 |

Sample Name: CCVL2067279 Acquired: 5/24/2013 2:04:47 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00977** | **.10857** | **.01448** | **.10982** | **.01004** | **.00100** | **.11890** | **.20120** | **.00518** | **.01044** | **.01074** | **.01528** | **.09882** | **3.1415** |
| Stddev | .00027 | .00003 | .00023 | .00027 | .00006 | .00000 | .00151 | .00206 | .00009 | .00002 | .00020 | .00021 | .00169 | .0069 |
| %RSD | 2.8022 | .02792 | 1.6171 | .24660 | .59789 | .16512 | 1.2740 | 1.0252 | 1.7969 | .23678 | 1.8593 | 1.3592 | 1.7111 | .21954 |
| #1 | .00997 | .10855 | .01464 | .10963 | .01000 | .00100 | .11998 | .20266 | .00511 | .01042 | .01088 | .01514 | .09762 | 3.1464 |
| #2 | .00958 | .10859 | .01431 | .11001 | .01008 | .00099 | .11783 | .19974 | .00524 | .01045 | .01060 | .01543 | .10001 | 3.1366 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00967** | **.21506** | **.01036** | **.02156** | **1.0969** | **.04416** | **3.0656** | **.00804** | **.03106** | **.01118** | **.01678** | **.56365** | **1.2062** | **.10824** |
| Stddev | .00261 | .00154 | .00005 | .00005 | .0001 | .00013 | .0003 | .00038 | .00072 | .00084 | .00073 | .01602 | .0343 | .00038 |
| %RSD | 26.986 | .71733 | .44190 | .22366 | .01225 | .30219 | .00867 | 4.7110 | 2.3267 | 7.4712 | 4.3203 | 2.8421 | 2.8421 | .35559 |
| #1 | .01151 | .21397 | .01033 | .02153 | 1.0970 | .04407 | 3.0654 | .00831 | .03055 | .01177 | .01730 | .55232 | 1.1820 | .10851 |
| #2 | .00782 | .21615 | .01040 | .02160 | 1.0968 | .04426 | 3.0658 | .00777 | .03157 | .01059 | .01627 | .57497 | 1.2304 | .10797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01008** | **.01628** | **.00999** | **.01614** | **.07412** | **.00962** | **.02298** | **.01639** |
| Stddev | .00002 | .00259 | .00028 | .00153 | .00085 | .00066 | .00031 | .00028 |
| %RSD | .18184 | 15.911 | 2.7864 | 9.4993 | 1.1415 | 6.8473 | 1.3613 | 1.7353 |
| #1 | .01007 | .01812 | .00980 | .01506 | .07352 | .01008 | .02276 | .01659 |
| #2 | .01010 | .01445 | .01019 | .01722 | .07471 | .00915 | .02320 | .01619 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8140.1** | **83775.** | **8081.5** |
| Stddev | .5 | 316. | 126.1 |
| %RSD | .00640 | .37749 | 1.5601 |
| #1 | 8140.4 | 83552. | 8170.7 |
| #2 | 8139.7 | 83999. | 7992.4 |

Sample Name: CCVH-2067278 Acquired: 5/24/2013 8:23:36 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00110** | **48.676** | **.00043** | **.00020** | **-.00004** | **.00001** | **1.0050** | **-.01235** | **.00025** | **.00026** | **.00013** | **-.00100** |
| Stddev | .00082 | .229 | .00300 | .00032 | .00011 | .00001 | .0002 | .00180 | .00015 | .00023 | .00008 | .00040 |
| %RSD | 74.366 | .47104 | 700.45 | 162.51 | 277.21 | 136.49 | .02345 | 14.569 | 58.198 | 90.229 | 61.996 | 39.476 |
| #1 | -.00052 | 48.514 | -.00170 | -.00003 | .00004 | .00000 | 1.0051 | -.01362 | .00035 | .00042 | .00007 | -.00128 |
| #2 | -.00168 | 48.838 | .00255 | .00043 | -.00012 | .00002 | 1.0048 | -.01107 | .00015 | .00009 | .00019 | -.00072 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.522** | **.17939** | **.00447** | **.03724** | **.00000** | **-.00030** | **251.63** | **.00059** | **.00390** | **-.00244** | W **4.7335** | **-.00190** |
| Stddev | .328 | .03310 | .00207 | .00013 | .00000 | .00001 | 1.91 | .00002 | .00037 | .00041 | .0007 | .00035 |
| %RSD | .66201 | 18.452 | 46.372 | .34256 | 183.32 | 4.3388 | .75849 | 2.7656 | 9.4397 | 16.857 | .01385 | 18.291 |
| #1 | 49.291 | .20279 | .00301 | .03715 | .00001 | -.00029 | 250.28 | .00058 | .00416 | -.00273 | 4.7330 | -.00214 |
| #2 | 49.754 | .15598 | .00594 | .03733 | .00000 | -.00031 | 252.98 | .00061 | .00364 | -.00215 | 4.7340 | -.00165 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Warn | None |
| Value | | | | | | | | | | | 5.0000 | |
| Range | | | | | | | | | | | -5.0000% | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00428** | **.00147** | **.00315** | **-.00016** | **.00025** | **4.8769** | **.00177** | **.00123** | **10.318** | **-.00028** | **.00063** | **-.00849** |
| Stddev | .00330 | .00009 | .00020 | .00057 | .00001 | .0043 | .00018 | .00049 | .002 | .00086 | .00001 | .00305 |
| %RSD | 77.157 | 6.2970 | 6.2970 | 343.78 | 2.2998 | .08872 | 10.322 | 40.003 | .02024 | 303.71 | 1.8083 | 35.883 |
| #1 | .00195 | .00154 | .00329 | .00024 | .00025 | 4.8799 | .00189 | .00088 | 10.316 | -.00089 | .00063 | -.01064 |
| #2 | .00662 | .00140 | .00301 | -.00057 | .00025 | 4.8738 | .00164 | .00158 | 10.319 | .00033 | .00062 | -.00633 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8003.0** | **79058.** | **7981.6** |
| Stddev | 12.1 | 157. | 16.0 |
| %RSD | .15168 | .19875 | .20051 |
| #1 | 8011.6 | 79169. | 7993.0 |
| #2 | 7994.4 | 78947. | 7970.3 |

Sample Name: CCV-2064677 Acquired: 5/24/2013 8:25:53 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51282** | **.52066** | **1.0041** | **.50581** | **.48885** | **.47681** | **.00067** | **4.7962** | **.48967** | **.49976** | **.50976** | **.49614** | **2.4028** | **48.206** |
| Stddev | .00186 | .00187 | .0012 | .00080 | .00325 | .00287 | .00329 | .0472 | .00039 | .00088 | .00011 | .00130 | .0239 | .424 |
| %RSD | .36292 | .35958 | .11955 | .15725 | .66485 | .60148 | 494.19 | .98432 | .08061 | .17707 | .02108 | .26158 | .99488 | .87938 |
| #1 | .51150 | .51934 | 1.0049 | .50525 | .49115 | .47884 | -.00166 | 4.8296 | .48939 | .49913 | .50968 | .49522 | 2.4197 | 48.506 |
| #2 | .51413 | .52199 | 1.0032 | .50637 | .48655 | .47479 | .00299 | 4.7628 | .48995 | .50038 | .50984 | .49706 | 2.3859 | 47.906 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94895** | **19.978** | **.49277** | **.50427** | **4.9061** | **.51382** | **.99982** | **.98465** | **.00859** | **.99147** | **1.0060** | **5.0156** | **10.733** | **1.0072** |
| Stddev | .00150 | .016 | .00036 | .00002 | .0132 | .00083 | .00165 | .00361 | .00133 | .00236 | .0023 | .0095 | .020 | .0001 |
| %RSD | .15827 | .08126 | .07355 | .00303 | .26920 | .16153 | .16462 | .36675 | 15.454 | .23770 | .23081 | .19041 | .19041 | .00769 |
| #1 | .95001 | 19.989 | .49303 | .50426 | 4.9154 | .51441 | .99865 | .98210 | .00953 | .99314 | 1.0076 | 5.0223 | 10.748 | 1.0073 |
| #2 | .94788 | 19.967 | .49251 | .50428 | 4.8967 | .51324 | 1.0010 | .98721 | .00766 | .98981 | 1.0043 | 5.0088 | 10.719 | 1.0072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48872** | **.00147** | **.49415** | **1.0053** | **.01087** | **.48627** | **.50411** | **.48649** |
| Stddev | .00271 | .00194 | .00045 | .0016 | .00927 | .00225 | .00062 | .00658 |
| %RSD | .55498 | 132.38 | .09206 | .15830 | 85.327 | .46349 | .12328 | 1.3519 |
| #1 | .49064 | .00009 | .49382 | 1.0042 | .01743 | .48787 | .50455 | .49114 |
| #2 | .48680 | .00284 | .49447 | 1.0065 | .00431 | .48468 | .50367 | .48184 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8153.7** | **82857.** | **8132.6** |
| Stddev | 26.9 | 363. | 73.0 |
| %RSD | .33027 | .43827 | .89741 |
| #1 | 8172.7 | 82600. | 8081.0 |
| #2 | 8134.6 | 83114. | 8184.2 |

Sample Name: CCB Acquired: 5/24/2013 8:28:01 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00055** | **-.00021** | **-.00093** | **.00031** | **-.00019** | **-.00001** | **-.00227** | **.00246** | **.00027** | **.00004** | **.00015** |
| Stddev | .00002 | .00005 | .00099 | .00071 | .00001 | .00000 | .00254 | .00331 | .00023 | .00004 | .00009 |
| %RSD | 3.9162 | 24.050 | 105.86 | 229.31 | 6.4797 | 71.512 | 111.97 | 134.60 | 83.403 | 111.17 | 58.591 |
| #1 | -.00056 | -.00024 | -.00163 | .00081 | -.00018 | -.00001 | -.00047 | .00481 | .00044 | .00006 | .00022 |
| #2 | -.00053 | -.00017 | -.00023 | -.00019 | -.00020 | .00000 | -.00407 | .00012 | .00011 | .00001 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **-.00308** | **.10714** | **-.00005** | **.00121** | **.00005** | **.00032** | **.03375** | **.00008** | **.00009** | **-.00031** |
| Stddev | .00023 | .00038 | .03261 | .00080 | .00101 | .00001 | .00001 | .00637 | .00020 | .00111 | .00048 |
| %RSD | 89.400 | 12.491 | 30.439 | 1696.2 | 83.569 | 17.242 | 3.4326 | 18.862 | 253.34 | 1254.6 | 151.42 |
| #1 | -.00042 | -.00335 | .13020 | -.00061 | .00049 | .00006 | .00031 | .03826 | .00022 | -.00069 | -.00065 |
| #2 | -.00009 | -.00281 | .08408 | .00052 | .00192 | .00004 | .00033 | .02925 | -.00006 | .00087 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01132** | **.00298** | **.00350** | **.01400** | **.02995** | **-.00044** | **-.00005** | **.00110** | W **-.00073** | **.00008** | **-.00774** |
| Stddev | .00093 | .00108 | .00119 | .01015 | .02173 | .00044 | .00009 | .00282 | .00017 | .00016 | .03340 |
| %RSD | 8.1890 | 36.163 | 34.132 | 72.534 | 72.534 | 99.530 | 198.86 | 256.72 | 23.814 | 208.24 | 431.64 |
| #1 | .01066 | .00374 | .00434 | .00682 | .01459 | -.00013 | -.00011 | -.00089 | -.00060 | .00019 | .01588 |
| #2 | .01198 | .00222 | .00265 | .02118 | .04532 | -.00075 | .00002 | .00309 | -.00085 | -.00004 | -.03136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | .00060 | | |
| Low Limit | | | | | | | | | -.00060 | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00005** | **.00212** | **.00050** |
| Stddev | .00002 | .00008 | .00063 |
| %RSD | 34.326 | 3.8289 | 126.02 |
| #1 | -.00004 | .00207 | .00005 |
| #2 | -.00006 | .00218 | .00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8120.6** | **83334.** | **8033.6** |
| Stddev | 20.0 | 297. | 26.6 |
| %RSD | .24578 | .35687 | .33147 |
| #1 | 8134.7 | 83124. | 8014.7 |
| #2 | 8106.5 | 83544. | 8052.4 |

Sample Name: CCVL2067279[illegible] Acquired: 5/24/2013 8:30:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00955** | **.11078** | **.01332** | **.09963** | **.00955** | **.00096** | **.11261** | **.19935** | **.00486** | **.01039** | **.01034** | **.01503** | **.09811** |
| Stddev | .00022 | .00037 | .00142 | .00088 | .00026 | .00007 | .00171 | .00091 | .00005 | .00026 | .00013 | .00011 | .00069 |
| %RSD | 2.2852 | .33037 | 10.643 | .87831 | 2.6969 | 7.4595 | 1.5144 | .45651 | .95327 | 2.5236 | 1.2560 | .76157 | .70479 |
| #1 | .00970 | .11104 | .01232 | .09901 | .00974 | .00091 | .11381 | .19999 | .00489 | .01020 | .01043 | .01495 | .09860 |
| #2 | .00939 | .11052 | .01433 | .10025 | .00937 | .00101 | .11140 | .19871 | .00482 | .01058 | .01025 | .01511 | .09762 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0377** | **.01272** | **.20926** | **.01011** | **.01999** | **1.0451** | **.04185** | **2.8634** | **.00721** | **.01222** | **.01116** | F **.01980** | **.51939** |
| Stddev | .0098 | .00096 | .00209 | .00004 | .00006 | .0137 | .00032 | .0026 | .00126 | .00099 | .00146 | .00256 | .00328 |
| %RSD | .32267 | 7.5642 | .99780 | .34705 | .28971 | 1.3142 | .75859 | .09195 | 17.484 | 8.1027 | 13.124 | 12.929 | .63178 |
| #1 | 3.0447 | .01340 | .21074 | .01008 | .01995 | 1.0353 | .04162 | 2.8616 | .00811 | .01292 | .01219 | .01799 | .52171 |
| #2 | 3.0308 | .01204 | .20779 | .01013 | .02004 | 1.0548 | .04207 | 2.8653 | .00632 | .01152 | .01012 | .02161 | .51707 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | | | .01500 | |
| Range | | | | | | | | | | | | 30.000% | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1115** | **.10114** | **.00986** | **.01536** | **.00956** | **.01588** | F **.10653** | **.00964** | **.02201** | **.01403** |
| Stddev | .0070 | .00151 | .00000 | .00109 | .00019 | .00120 | .00519 | .00083 | .00046 | .00022 |
| %RSD | .63178 | 1.4898 | .00646 | 7.0718 | 1.9963 | 7.5513 | 4.8698 | 8.5829 | 2.0943 | 1.5580 |
| #1 | 1.1165 | .10221 | .00986 | .01459 | .00942 | .01503 | .11020 | .01022 | .02168 | .01418 |
| #2 | 1.1065 | .10008 | .00986 | .01613 | .00969 | .01672 | .10286 | .00905 | .02234 | .01387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8268.2** | **83530.** | **8115.1** |
| Stddev | 9.5 | 117. | 79.4 |
| %RSD | .11500 | .14020 | .97805 |
| #1 | 8274.9 | 83612. | 8171.2 |
| #2 | 8261.5 | 83447. | 8059.0 |

Sample Name: 280-42032-a-3-b@5 Acquired: 5/24/2013 8:32:35 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00133** | k **28.629** | k **.01131** | **.01205** | **.29682** | k **.00156** | k **-.00491** | **296.62** | k **.00111** | k **.01268** |
| Stddev | .00049 | .076 | .00134 | .00084 | .00033 | .00002 | .00042 | 3.51 | .00010 | .00006 |
| %RSD | 36.758 | .26664 | 11.859 | 7.0041 | .11119 | 1.3686 | 8.5389 | 1.1817 | 9.0660 | .48649 |
| #1 | k -.00168 | k 28.683 | k .01225 | .01145 | .29658 | k .00158 | k -.00462 | 299.09 | k .00118 | k .01264 |
| #2 | k -.00098 | k 28.575 | k .01036 | .01265 | .29705 | k .00155 | k -.00521 | 294.14 | k .00104 | k .01272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.03025** | k **.03601** | k **43.422** | **6.5469** | k **.02553** | k **13.556** | k **.93436** | k **.00263** | **.34696** | k **.02646** |
| Stddev | .00004 | .00004 | .108 | .0197 | .00077 | .014 | .00019 | .00001 | .00662 | .00010 |
| %RSD | .12935 | .11992 | .24935 | .30147 | 3.0260 | .10347 | .02073 | .56721 | 1.9077 | .38255 |
| #1 | k .03028 | k .03598 | k 43.346 | 6.5609 | k .02608 | k 13.546 | k .93422 | k .00264 | .35164 | k .02639 |
| #2 | k .03022 | k .03604 | k 43.499 | 6.5330 | k .02498 | k 13.566 | k .93450 | k .00262 | .34228 | k .02653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **1.3931** | k **.04465** | k **.66864** | k **.00078** | k **.00267** | k **.39794** | k **.85159** | k **.00252** | **.63023** | k **.05234** |
| Stddev | .0018 | .00053 | .00818 | .00114 | .00370 | .01017 | .02176 | .00042 | .00015 | .00135 |
| %RSD | .13043 | 1.1930 | 1.2238 | 145.14 | 138.36 | 2.5557 | 2.5557 | 16.487 | .02343 | 2.5704 |
| #1 | k 1.3918 | k .04428 | k .66286 | k .00159 | k .00006 | k .40513 | k .86698 | k .00281 | .63012 | k .05139 |
| #2 | k 1.3944 | k .04503 | k .67443 | k -.00002 | k .00529 | k .39075 | k .83621 | k .00223 | .63033 | k .05329 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.75648** | k **-.00072** | kW **-.05570** | k **.06153** | k **.16993** | k **.02836** |
| Stddev | .00005 | .00101 | .00571 | .00052 | .00079 | .00184 |
| %RSD | .00628 | 140.26 | 10.260 | .84891 | .46208 | 6.4890 |
| #1 | k .75652 | k -.00001 | k -.05166 | k .06190 | k .16938 | k .02706 |
| #2 | k .75645 | k -.00143 | k -.05974 | k .06116 | k .17049 | k .02966 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8345.7** | **81992.** | **8459.9** |
| Stddev | 19.1 | 256. | 5.1 |
| %RSD | .22876 | .31185 | .06042 |
| #1 | 8359.2 | 82173. | 8463.5 |
| #2 | 8332.2 | 81811. | 8456.2 |

Sample Name: 280-42032-a-4-d@5 Acquired: 5/24/2013 8:34:55 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00168** | **35.814** | **.01331** | **.01577** | **.31453** | **.00215** | **-.00414** | **300.55** | **.00218** | **.01253** |
| Stddev | .00006 | .079 | .00381 | .00026 | .00106 | .00002 | .00133 | 3.64 | .00016 | .00040 |
| %RSD | 3.7815 | .22132 | 28.584 | 1.6750 | .33577 | .81312 | 32.052 | 1.2103 | 7.5270 | 3.2099 |
| #1 | -.00163 | 35.758 | .01062 | .01558 | .31379 | .00214 | -.00320 | 303.12 | .00206 | .01225 |
| #2 | -.00172 | 35.870 | .01600 | .01596 | .31528 | .00216 | -.00508 | 297.97 | .00229 | .01282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03974** | **.04165** | **51.578** | **8.1991** | **.02970** | **15.709** | **1.0782** | **.00351** | **.39152** | **.03020** |
| Stddev | .00000 | .00035 | .134 | .0535 | .00092 | .076 | .0045 | .00003 | .00797 | .00019 |
| %RSD | .01076 | .82854 | .25976 | .65268 | 3.1134 | .48349 | .41324 | .78684 | 2.0354 | .61745 |
| #1 | .03975 | .04141 | 51.483 | 8.1613 | .02904 | 15.656 | 1.0750 | .00349 | .39715 | .03034 |
| #2 | .03974 | .04190 | 51.673 | 8.2370 | .03035 | 15.763 | 1.0813 | .00353 | .38588 | .03007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7140** | **.05130** | **.61303** | **-.00169** | **.00402** | **.54716** | **1.1709** | **.00541** | **.60284** | **.02248** |
| Stddev | .0060 | .00072 | .00750 | .00147 | .00251 | .00585 | .0125 | .00011 | .00124 | .00044 |
| %RSD | .35140 | 1.4087 | 1.2241 | 87.109 | 62.413 | 1.0699 | 1.0699 | 2.0075 | .20501 | 1.9390 |
| #1 | 1.7183 | .05079 | .61833 | -.00065 | .00579 | .55130 | 1.1798 | .00549 | .60197 | .02279 |
| #2 | 1.7098 | .05181 | .60772 | -.00273 | .00224 | .54302 | 1.1621 | .00534 | .60372 | .02218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0744** | **.00028** | F **-.13221** | **.07635** | **.19221** | **.03917** |
| Stddev | .0023 | .00093 | .00269 | .00080 | .00088 | .00175 |
| %RSD | .21684 | 328.66 | 2.0337 | 1.0536 | .45613 | 4.4635 |
| #1 | 1.0728 | -.00038 | -.13411 | .07578 | .19159 | .03793 |
| #2 | 1.0761 | .00094 | -.13031 | .07691 | .19283 | .04041 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8393.3** | **82658.** | **8538.6** |
| Stddev | 28.9 | 282. | 76.2 |
| %RSD | .34487 | .34072 | .89196 |
| #1 | 8413.8 | 82857. | 8592.5 |
| #2 | 8372.9 | 82459. | 8484.8 |

Sample Name: 280-42032-a-4-dSD@25 Acquired: 5/24/2013 8:37:16 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00100** | **7.4496** | **.00260** | **.00240** | **.06444** | **.00044** | **-.00040** | **62.876** | **.00051** | **.00263** |
| Stddev | .00043 | .0059 | .00103 | .00019 | .00001 | .00002 | .00288 | .056 | .00009 | .00005 |
| %RSD | 42.800 | .07871 | 39.670 | 7.9193 | .01222 | 4.4442 | 725.58 | .08977 | 17.911 | 1.7884 |
| #1 | -.00070 | 7.4454 | .00333 | .00226 | .06443 | .00045 | -.00243 | 62.916 | .00057 | .00259 |
| #2 | -.00130 | 7.4537 | .00187 | .00253 | .06444 | .00042 | .00164 | 62.836 | .00044 | .00266 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00850** | **.00841** | **9.9699** | **1.7142** | **.01035** | **3.3198** | **.22195** | **.00078** | **.08982** | **.00647** |
| Stddev | .00006 | .00001 | .0030 | .0617 | .00071 | .0000 | .00003 | .00001 | .02296 | .00006 |
| %RSD | .76452 | .16742 | .03003 | 3.5987 | 6.8568 | .00132 | .01250 | 1.2651 | 25.568 | .95877 |
| #1 | .00855 | .00842 | 9.9678 | 1.7578 | .01085 | 3.3197 | .22197 | .00078 | .07358 | .00643 |
| #2 | .00846 | .00840 | 9.9720 | 1.6706 | .00985 | 3.3198 | .22193 | .00077 | .10606 | .00651 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34808** | **.01040** | **.13148** | **-.00157** | **.00305** | **.13497** | **.28883** | **.00074** | **.12466** | **.00395** |
| Stddev | .00018 | .00005 | .00089 | .00105 | .00028 | .00584 | .01250 | .00021 | .00010 | .00062 |
| %RSD | .05265 | .44358 | .67613 | 67.104 | 9.1627 | 4.3293 | 4.3293 | 28.184 | .07925 | 15.720 |
| #1 | .34821 | .01036 | .13211 | -.00231 | .00325 | .13910 | .29767 | .00088 | .12473 | .00439 |
| #2 | .34795 | .01043 | .13085 | -.00082 | .00285 | .13084 | .27999 | .00059 | .12459 | .00351 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21621** | **.00062** | **.03155** | **.01503** | **.04265** | **.00923** |
| Stddev | .00084 | .00033 | .01588 | .00047 | .00001 | .00256 |
| %RSD | .38771 | 52.611 | 50.327 | 3.1166 | .03378 | 27.786 |
| #1 | .21680 | .00039 | .02032 | .01536 | .04266 | .01104 |
| #2 | .21561 | .00086 | .04278 | .01470 | .04264 | .00741 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8380.5** | **84528.** | **8342.7** |
| Stddev | 5.0 | 259. | 24.4 |
| %RSD | .06004 | .30692 | .29250 |
| #1 | 8376.9 | 84344. | 8359.9 |
| #2 | 8384.1 | 84711. | 8325.4 |

Sample Name: 280-42032-a-4-e ms@5 Acquired: 5/24/2013 8:39:33 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00810** | **45.328** | **.19970** | **.21231** | **.68413** | **.01144** | F **.41114** | **289.33** | **.02085** | **.10357** |
| Stddev | .00044 | .185 | .00179 | .00085 | .00134 | .00003 | .00267 | 2.13 | .00014 | .00003 |
| %RSD | 5.3954 | .40845 | .89426 | .39812 | .19579 | .25910 | .65046 | .73573 | .64897 | .03054 |
| #1 | .00780 | 45.197 | .19844 | .21171 | .68319 | .01146 | .41303 | 287.83 | .02076 | .10359 |
| #2 | .00841 | 45.459 | .20097 | .21291 | .68508 | .01142 | .40925 | 290.84 | .02095 | .10355 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08556** | **.08822** | **49.084** | **19.340** | **.21599** | **25.516** | **1.1021** | **.18656** | **9.8100** | W **10.140** |
| Stddev | .00033 | .00038 | .211 | .079 | .00004 | .088 | .0020 | .00013 | .0505 | .352 |
| %RSD | .38678 | .43329 | .42988 | .40754 | .01861 | .34475 | .17759 | .06923 | .51434 | 3.4733 |
| #1 | .08532 | .08849 | 48.935 | 19.285 | .21596 | 25.578 | 1.1035 | .18665 | 9.7743 | 9.8911 |
| #2 | .08579 | .08795 | 49.233 | 19.396 | .21602 | 25.453 | 1.1007 | .18647 | 9.8456 | 10.389 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12442** | W **3.5908** | **.13558** | **.59197** | **.04019** | **.37089** | **1.1880** | **2.5424** | **.35533** | **.76750** |
| Stddev | .00072 | .0011 | .00000 | .00376 | .00042 | .00595 | .0297 | .0636 | .00085 | .00272 |
| %RSD | .57805 | .03131 | .00306 | .63496 | 1.0500 | 1.6053 | 2.5034 | 2.5034 | .23956 | .35388 |
| #1 | .12391 | 3.5900 | .13558 | .58931 | .03989 | .36668 | 1.1670 | 2.4974 | .35593 | .76558 |
| #2 | .12493 | 3.5916 | .13558 | .59463 | .04048 | .37510 | 1.2091 | 2.5874 | .35473 | .76942 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.0000 | | | | | | | | |
| Low Limit | | -1.0000 | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20999** | **1.6556** | **.35213** | **.32972** | **.17774** | **.27792** | **.13489** |
| Stddev | .00312 | .0010 | .00026 | .01753 | .00019 | .00072 | .00210 |
| %RSD | 1.4869 | .06289 | .07412 | 5.3181 | .10644 | .25972 | 1.5575 |
| #1 | .20779 | 1.6548 | .35232 | .34212 | .17787 | .27844 | .13638 |
| #2 | .21220 | 1.6563 | .35195 | .31732 | .17760 | .27741 | .13341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8278.5** | **81270.** | **8444.0** |
| Stddev | 36.1 | 213. | 32.9 |
| %RSD | .43551 | .26192 | .39009 |
| #1 | 8253.0 | 81119. | 8467.3 |
| #2 | 8304.0 | 81420. | 8420.7 |

Sample Name: 42032-a-4-f msd@5 Acquired: 5/24/2013 8:41:48 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00863** | **45.217** | **.20187** | **.20960** | **.69900** | **.01137** | F **.40642** | **301.02** | **.02088** | **.10228** |
| Stddev | .00026 | .081 | .00038 | .00010 | .00425 | .00003 | .00241 | 5.85 | .00022 | .00028 |
| %RSD | 3.0001 | .17863 | .18679 | .04538 | .60834 | .26287 | .59362 | 1.9447 | 1.0464 | .27121 |
| #1 | .00844 | 45.160 | .20161 | .20966 | .69600 | .01135 | .40813 | 305.16 | .02073 | .10248 |
| #2 | .00881 | 45.274 | .20214 | .20953 | .70201 | .01139 | .40472 | 296.88 | .02103 | .10209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08399** | **.08816** | **48.331** | **19.272** | **.21806** | **25.402** | **1.1780** | **.18468** | **9.7439** | W **10.648** |
| Stddev | .00000 | .00024 | .189 | .093 | .00078 | .016 | .0015 | .00010 | .0512 | .086 |
| %RSD | .00525 | .26926 | .39159 | .48009 | .35615 | .06106 | .12900 | .05417 | .52499 | .80849 |
| #1 | .08398 | .08799 | 48.197 | 19.206 | .21751 | 25.391 | 1.1770 | .18475 | 9.7077 | 10.709 |
| #2 | .08399 | .08833 | 48.465 | 19.337 | .21861 | 25.413 | 1.1791 | .18460 | 9.7800 | 10.587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12384** | W **3.5903** | **.13710** | **.59367** | **.03992** | **.36857** | **.94973** | **2.0324** | **.35176** | **.78731** |
| Stddev | .00020 | .0004 | .00021 | .00075 | .00346 | .00032 | .01425 | .0305 | .00009 | .00425 |
| %RSD | .16271 | .01003 | .15310 | .12696 | 8.6614 | .08787 | 1.5007 | 1.5007 | .02455 | .54031 |
| #1 | .12398 | 3.5900 | .13725 | .59420 | .04237 | .36834 | .93966 | 2.0109 | .35170 | .78430 |
| #2 | .12370 | 3.5905 | .13695 | .59314 | .03748 | .36880 | .95981 | 2.0540 | .35182 | .79032 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.0000 | | | | | | | | |
| Low Limit | | -1.0000 | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20760** | **1.5233** | **.34987** | **.30567** | **.17428** | **.27146** | **.13602** |
| Stddev | .00076 | .0011 | .00045 | .00958 | .00109 | .00007 | .00300 |
| %RSD | .36549 | .07109 | .12727 | 3.1349 | .62789 | .02643 | 2.2076 |
| #1 | .20814 | 1.5226 | .35019 | .31245 | .17351 | .27141 | .13389 |
| #2 | .20707 | 1.5241 | .34956 | .29890 | .17506 | .27152 | .13814 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8330.8** | **82248.** | **8533.5** |
| Stddev | 9.3 | 427. | 13.1 |
| %RSD | .11167 | .51933 | .15336 |
| #1 | 8337.4 | 82550. | 8524.3 |
| #2 | 8324.2 | 81946. | 8542.8 |

Sample Name: 280-42032-a-4-dPDS@5 Acquired: 5/24/2013 8:44:02 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04699** | **35.709** | **.19534** | **.11064** | **.39563** | **.04665** | **-.00073** | **306.43** | **.04828** | **.05691** |
| Stddev | .00047 | .090 | .00103 | .00062 | .00151 | .00018 | .00225 | .62 | .00003 | .00015 |
| %RSD | .99796 | .25265 | .52789 | .56130 | .38188 | .37822 | 309.44 | .20309 | .05245 | .26348 |
| #1 | .04733 | 35.645 | .19607 | .11108 | .39456 | .04652 | -.00232 | 306.87 | .04829 | .05702 |
| #2 | .04666 | 35.773 | .19461 | .11020 | .39669 | .04677 | .00086 | 305.99 | .04826 | .05681 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08537** | **.08759** | **50.862** | **26.433** | **.11810** | **33.049** | **1.0873** | **.05076** | **19.721** | **.07497** |
| Stddev | .00005 | .00045 | .413 | .126 | .00118 | .031 | .0002 | .00001 | .033 | .00003 |
| %RSD | .05324 | .51478 | .81198 | .47808 | .99609 | .09317 | .02050 | .01378 | .16895 | .03525 |
| #1 | .08541 | .08728 | 50.570 | 26.343 | .11727 | 33.071 | 1.0875 | .05075 | 19.698 | .07495 |
| #2 | .08534 | .08791 | 51.154 | 26.522 | .11893 | 33.027 | 1.0872 | .05076 | 19.745 | .07499 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.6114** | **.13804** | **.61127** | **.09061** | **.18647** | **5.3755** | **11.503** | **.09625** | **.63223** | **.20935** |
| Stddev | .0111 | .00034 | .00456 | .00182 | .00054 | .0228 | .049 | .00032 | .00197 | .00266 |
| %RSD | .30598 | .24517 | .74671 | 2.0132 | .28835 | .42336 | .42336 | .33001 | .31150 | 1.2714 |
| #1 | 3.6036 | .13828 | .60805 | .09190 | .18685 | 5.3594 | 11.469 | .09647 | .63083 | .21123 |
| #2 | 3.6192 | .13780 | .61450 | .08932 | .18609 | 5.3915 | 11.538 | .09602 | .63362 | .20747 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0972** | **.17264** | **.40682** | **.11985** | **.36911** | **.08561** |
| Stddev | .0024 | .00015 | .00384 | .00062 | .00011 | .00275 |
| %RSD | .21622 | .08451 | .94277 | .51408 | .02863 | 3.2079 |
| #1 | 1.0955 | .17274 | .40953 | .12028 | .36903 | .08367 |
| #2 | 1.0989 | .17254 | .40411 | .11941 | .36918 | .08755 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8318.2** | **82452.** | **8529.9** |
| Stddev | 15.1 | 37. | 44.2 |
| %RSD | .18140 | .04471 | .51868 |
| #1 | 8328.9 | 82478. | 8561.2 |
| #2 | 8307.5 | 82426. | 8498.6 |

Sample Name: 280-42032-a-6-b@5 Acquired: 5/24/2013 8:46:18 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 174449 SOIL Q4 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00220** | **31.031** | **.00868** | **.01409** | **.28808** | **.00192** | **-.00261** | **278.30** | **.00210** | **.01133** |
| Stddev | .00014 | .091 | .00059 | .00014 | .00098 | .00013 | .00076 | 1.31 | .00002 | .00027 |
| %RSD | 6.2840 | .29378 | 6.8493 | 1.0003 | .33971 | 6.8153 | 28.987 | .47177 | .82645 | 2.4262 |
| #1 | -.00230 | 30.966 | .00910 | .01399 | .28739 | .00202 | -.00315 | 279.23 | .00211 | .01152 |
| #2 | -.00211 | 31.095 | .00826 | .01419 | .28878 | .00183 | -.00208 | 277.37 | .00209 | .01113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03524** | **.03909** | **45.887** | **7.1596** | **.02731** | **14.302** | **1.0205** | **.00309** | **.34965** | **.02759** |
| Stddev | .00005 | .00050 | .019 | .0923 | .00003 | .029 | .0008 | .00038 | .01072 | .00044 |
| %RSD | .14378 | 1.2852 | .04080 | 1.2893 | .12812 | .20206 | .07772 | 12.161 | 3.0668 | 1.5881 |
| #1 | .03520 | .03873 | 45.900 | 7.0943 | .02734 | 14.323 | 1.0211 | .00282 | .34207 | .02790 |
| #2 | .03528 | .03944 | 45.874 | 7.2248 | .02729 | 14.282 | 1.0200 | .00335 | .35723 | .02728 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6136** | **.04826** | **.57826** | **-.00153** | **-.00033** | **.42387** | **.90709** | **.00441** | **.54788** | **.02066** |
| Stddev | .0022 | .00130 | .00561 | .00023 | .00083 | .00200 | .00428 | .00014 | .00105 | .00188 |
| %RSD | .13800 | 2.6927 | .96973 | 15.154 | 250.97 | .47134 | .47134 | 3.1698 | .19194 | 9.0979 |
| #1 | 1.6120 | .04918 | .57430 | -.00137 | .00026 | .42529 | .91011 | .00431 | .54714 | .01933 |
| #2 | 1.6152 | .04734 | .58223 | -.00170 | -.00092 | .42246 | .90407 | .00451 | .54862 | .02198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.78893** | **.00157** | W **-.06967** | **.06599** | **.17345** | **.03564** |
| Stddev | .00088 | .00051 | .02775 | .00070 | .00088 | .00054 |
| %RSD | .11215 | 32.090 | 39.824 | 1.0553 | .50481 | 1.5161 |
| #1 | .78955 | .00122 | -.05005 | .06648 | .17407 | .03602 |
| #2 | .78830 | .00193 | -.08929 | .06550 | .17283 | .03526 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8389.5** | **83170.** | **8565.4** |
| Stddev | 2.9 | 541. | 74.6 |
| %RSD | .03439 | .64993 | .87120 |
| #1 | 8391.5 | 82788. | 8618.1 |
| #2 | 8387.4 | 83553. | 8512.6 |

Sample Name: 280-42433-a-5-a@5 Acquired: 5/24/2013 8:48:38 Type: Unk
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 175123 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **3.4050** | **.00041** | **.02539** | **.00103** | **.00623** | **-.00461** | **108.81** | **.00092** | **.05289** |
| Stddev | .00010 | .0206 | .00177 | .00014 | .00040 | .00006 | .00054 | .29 | .00008 | .00020 |
| %RSD | 11.317 | .60513 | 427.15 | .53398 | 39.144 | .96133 | 11.701 | .26692 | 8.8448 | .36941 |
| #1 | -.00083 | 3.4196 | -.00084 | .02549 | .00074 | .00619 | -.00423 | 109.02 | .00097 | .05303 |
| #2 | -.00097 | 3.3904 | .00166 | .02529 | .00131 | .00627 | -.00499 | 108.61 | .00086 | .05275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00206** | **.04247** | **3.6940** | **.24112** | **48.588** | **.25784** | **.00011** | **132.82** | **.05794** |
| Stddev | .00007 | .00028 | .00025 | .0490 | .00052 | .122 | .00053 | .00008 | .01 | .00033 |
| %RSD | 33.471 | 13.524 | .59810 | 1.3273 | .21422 | .25041 | .20565 | 76.872 | .01019 | .57112 |
| #1 | .00016 | .00226 | .04265 | 3.6594 | .24075 | 48.502 | .25746 | .00017 | 132.81 | .05770 |
| #2 | .00026 | .00186 | .04229 | 3.7287 | .24148 | 48.674 | .25821 | .00005 | 132.83 | .05817 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01064** | **.00066** | **130.66** | **-.00056** | **-.00101** | **8.9442** | **19.141** | **-.00057** | **.32303** | **-.00183** |
| Stddev | .00027 | .00040 | .08 | .00078 | .00158 | .0171 | .037 | .00010 | .00063 | .00063 |
| %RSD | 2.5828 | 59.914 | .06423 | 138.79 | 157.29 | .19166 | .19166 | 17.946 | .19416 | 34.539 |
| #1 | .01045 | .00094 | 130.60 | -.00001 | .00011 | 8.9563 | 19.166 | -.00049 | .32348 | -.00138 |
| #2 | .01084 | .00038 | 130.72 | -.00111 | -.00213 | 8.9321 | 19.115 | -.00064 | .32259 | -.00227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.00040** | **-.03271** | **.00169** | **.07948** | **.00337** |
| Stddev | .00011 | .00079 | .00119 | .00049 | .00035 | .00048 |
| %RSD | 35.130 | 197.27 | 3.6362 | 29.061 | .44060 | 14.145 |
| #1 | -.00023 | .00096 | -.03356 | .00204 | .07923 | .00371 |
| #2 | -.00038 | -.00016 | -.03187 | .00134 | .07973 | .00303 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8671.5** | **88228.** | **8888.3** |
| Stddev | 44.8 | 312. | 14.0 |
| %RSD | .51690 | .35352 | .15710 |
| #1 | 8703.2 | 88448. | 8878.5 |
| #2 | 8639.8 | 88007. | 8898.2 |

Sample Name: CCVH-2067278 Acquired: 5/24/2013 8:50:54 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00143** | **48.087** | **-.00320** | **-.00005** | **-.00016** | **.00003** | **1.0033** | **.01353** | **.00030** | **.00029** | **.00001** | **-.00029** | **49.110** |
| Stddev | .00092 | .098 | .00377 | .00109 | .00020 | .00000 | .0004 | .00092 | .00016 | .00008 | .00019 | .00009 | .159 |
| %RSD | 64.307 | .20397 | 117.84 | 2271.2 | 130.12 | 8.5139 | .03937 | 6.8033 | 52.981 | 25.743 | 2073.8 | 30.292 | .32411 |
| #1 | -.00208 | 48.157 | -.00053 | .00072 | -.00030 | .00004 | 1.0030 | .01288 | .00041 | .00034 | -.00013 | -.00022 | 49.222 |
| #2 | -.00078 | 48.018 | -.00587 | -.00082 | -.00001 | .00003 | 1.0035 | .01418 | .00019 | .00024 | .00015 | -.00035 | 48.997 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13002** | **.00257** | **.04171** | **.00001** | **-.00039** | **249.85** | **.00034** | **.00399** | **-.00244** | **4.7742** | **.00017** | **.00649** | **.00586** |
| Stddev | .01452 | .00196 | .00753 | .00003 | .00033 | 1.26 | .00011 | .00044 | .00091 | .0124 | .00443 | .00030 | .00685 |
| %RSD | 11.169 | 76.247 | 18.043 | 414.14 | 83.858 | .50619 | 31.287 | 10.910 | 37.404 | .25996 | 2641.1 | 4.6812 | 116.94 |
| #1 | .11976 | .00396 | .03639 | -.00001 | -.00016 | 250.75 | .00042 | .00368 | -.00180 | 4.7830 | -.00296 | .00628 | .00101 |
| #2 | .14029 | .00119 | .04703 | .00003 | -.00062 | 248.96 | .00027 | .00430 | -.00309 | 4.7654 | .00330 | .00671 | .01070 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01253** | **-.00016** | **.00032** | **4.8515** | **.00188** | **.00080** | **10.275** | **-.00043** | **.00126** | **-.00476** |
| Stddev | .01465 | .00008 | .00006 | .0024 | .00028 | .00100 | .061 | .00001 | .00029 | .00233 |
| %RSD | 116.94 | 47.470 | 20.097 | .04937 | 14.692 | 125.91 | .59249 | 2.5124 | 22.678 | 48.933 |
| #1 | .00217 | -.00022 | .00037 | 4.8498 | .00207 | .00009 | 10.232 | -.00042 | .00106 | -.00311 |
| #2 | .02289 | -.00011 | .00028 | 4.8532 | .00168 | .00150 | 10.318 | -.00044 | .00146 | -.00641 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7974.2** | **79626.** | **8011.9** |
| Stddev | 19.2 | 179. | 51.4 |
| %RSD | .24088 | .22519 | .64190 |
| #1 | 7987.8 | 79499. | 7975.5 |
| #2 | 7960.6 | 79752. | 8048.3 |

Sample Name: CCV-2064677 Acquired: 5/24/2013 8:53:10 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51131** | **.52329** | **.99620** | **.50238** | **.48779** | **.47078** | **.00243** | **4.8257** | **.48714** | **.49774** | **.50747** | **.49897** | **2.3734** | **48.111** |
| Stddev | .00099 | .00467 | .00166 | .00147 | .00071 | .00048 | .00181 | .0137 | .00061 | .00093 | .00109 | .00188 | .0047 | .045 |
| %RSD | .19297 | .89162 | .16638 | .29212 | .14618 | .10283 | 74.838 | .28394 | .12517 | .18750 | .21540 | .37720 | .19848 | .09259 |
| #1 | .51061 | .52659 | .99503 | .50134 | .48830 | .47044 | .00371 | 4.8160 | .48671 | .49708 | .50670 | .49764 | 2.3701 | 48.143 |
| #2 | .51201 | .51999 | .99737 | .50342 | .48729 | .47112 | .00114 | 4.8354 | .48757 | .49840 | .50824 | .50030 | 2.3768 | 48.080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94123** | **19.914** | **.49124** | **.50204** | **4.8057** | **.51185** | **.99534** | **.98344** | **.02699** | **.98151** | **1.0029** | **5.0100** | **10.721** | **1.0008** |
| Stddev | .00239 | .052 | .00067 | .00008 | .0169 | .00060 | .00051 | .00018 | .00765 | .00095 | .0033 | .0127 | .027 | .0003 |
| %RSD | .25341 | .26101 | .13631 | .01600 | .35230 | .11674 | .05089 | .01805 | 28.352 | .09637 | .33091 | .25365 | .25365 | .02986 |
| #1 | .93954 | 19.878 | .49076 | .50198 | 4.8177 | .51142 | .99570 | .98332 | .03240 | .98218 | 1.0053 | 5.0011 | 10.702 | 1.0011 |
| #2 | .94291 | 19.951 | .49171 | .50209 | 4.7937 | .51227 | .99498 | .98357 | .02158 | .98085 | 1.0006 | 5.0190 | 10.741 | 1.0006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48666** | **.00032** | **.49490** | **1.0034** | **.00766** | **.48172** | **.50280** | **.48693** |
| Stddev | .00007 | .00142 | .00024 | .0024 | .07347 | .00141 | .00157 | .00278 |
| %RSD | .01509 | 440.22 | .04786 | .23974 | 959.32 | .29342 | .31178 | .57073 |
| #1 | .48671 | -.00068 | .49473 | 1.0051 | .05961 | .48072 | .50170 | .48889 |
| #2 | .48661 | .00132 | .49506 | 1.0017 | -.04429 | .48272 | .50391 | .48496 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8245.0** | **83407.** | **8177.9** |
| Stddev | 7.2 | 163. | 27.4 |
| %RSD | .08719 | .19483 | .33508 |
| #1 | 8250.1 | 83292. | 8197.3 |
| #2 | 8239.9 | 83522. | 8158.5 |

Sample Name: CCB Acquired: 5/24/2013 8:55:17 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00095** | **.00303** | **.00004** | **-.00032** | **-.00007** | **.00008** | **-.00030** | **.01711** | **.00011** | **.00009** | **.00008** |
| Stddev | .00012 | .00028 | .00109 | .00034 | .00008 | .00007 | .00114 | .00030 | .00012 | .00027 | .00008 |
| %RSD | 12.925 | 9.1554 | 2751.3 | 105.51 | 101.24 | 89.654 | 386.52 | 1.7405 | 109.48 | 295.60 | 95.851 |
| #1 | -.00086 | .00322 | .00081 | -.00056 | -.00013 | .00012 | .00051 | .01732 | .00020 | -.00010 | .00014 |
| #2 | -.00104 | .00283 | -.00073 | -.00008 | -.00002 | .00003 | -.00110 | .01690 | .00003 | .00028 | .00003 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00444** | **.22873** | **.00216** | **.00418** | **.00004** | **.00025** | **.04538** | **.00012** | **.00011** | **-.00084** |
| Stddev | .00011 | .00160 | .00384 | .00078 | .00317 | .00002 | .00003 | .01140 | .00039 | .00050 | .00055 |
| %RSD | 44.138 | 35.989 | 1.6794 | 35.954 | 75.834 | 52.313 | 10.890 | 25.122 | 330.74 | 444.44 | 64.929 |
| #1 | -.00017 | .00331 | .22601 | .00161 | .00194 | .00006 | .00027 | .05344 | -.00016 | -.00024 | -.00046 |
| #2 | -.00033 | .00557 | .23144 | .00271 | .00643 | .00003 | .00023 | .03732 | .00040 | .00046 | -.00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02055** | **.00164** | **.00444** | **.02190** | **.04686** | **-.00051** | **.00008** | **.00028** | **-.00053** | **.00007** | **.00972** |
| Stddev | .00417 | .00054 | .00043 | .00459 | .00982 | .00028 | .00015 | .00124 | .00011 | .00021 | .02947 |
| %RSD | 20.285 | 32.992 | 9.6006 | 20.947 | 20.947 | 55.766 | 185.80 | 445.34 | 20.369 | 323.99 | 303.01 |
| #1 | .02349 | .00126 | .00474 | .01866 | .03992 | -.00031 | .00019 | .00116 | -.00061 | -.00008 | -.01111 |
| #2 | .01760 | .00202 | .00414 | .02514 | .05381 | -.00071 | -.00003 | -.00060 | -.00045 | .00021 | .03056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00006** | **.00263** | **.00168** |
| Stddev | .00056 | .00022 | .00059 |
| %RSD | 856.87 | 8.2422 | 34.936 |
| #1 | .00033 | .00278 | .00209 |
| #2 | -.00046 | .00247 | .00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8245.0** | **84144.** | **8057.4** |
| Stddev | 12.7 | 196. | 12.4 |
| %RSD | .15412 | .23308 | .15447 |
| #1 | 8236.1 | 84282. | 8066.2 |
| #2 | 8254.0 | 84005. | 8048.6 |

Sample Name: CCVL2067279[illegible] Acquired: 5/24/2013 8:57:31 Type: QC
Method: 6500_025(v11) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00928** | **.10624** | **.01336** | **.09866** | **.00923** | **.00102** | **.11506** | **.20545** | **.00495** | **.01025** | **.01030** | **.01466** | **.09629** |
| Stddev | .00012 | .00017 | .00346 | .00096 | .00028 | .00005 | .00276 | .00286 | .00025 | .00017 | .00007 | .00019 | .00053 |
| %RSD | 1.2586 | .15865 | 25.920 | .96907 | 3.0498 | 4.7156 | 2.4017 | 1.3897 | 4.9941 | 1.6771 | .66284 | 1.3261 | .55206 |
| #1 | .00920 | .10635 | .01091 | .09934 | .00943 | .00105 | .11701 | .20747 | .00477 | .01013 | .01034 | .01480 | .09591 |
| #2 | .00936 | .10612 | .01580 | .09798 | .00903 | .00099 | .11310 | .20343 | .00512 | .01038 | .01025 | .01452 | .09666 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0326** | **.00961** | **.21026** | **.00994** | **.02021** | **1.0125** | **.04151** | **2.8482** | **.00792** | **.01143** | **.01112** | **.01527** | **.52844** |
| Stddev | .0744 | .00438 | .00200 | .00007 | .00009 | .0027 | .00004 | .0081 | .00173 | .00165 | .00005 | .00232 | .00319 |
| %RSD | 2.4520 | 45.516 | .95212 | .74685 | .45628 | .26900 | .09667 | .28618 | 21.845 | 14.470 | .46210 | 15.183 | .60404 |
| #1 | 2.9800 | .00652 | .20885 | .00999 | .02028 | 1.0106 | .04154 | 2.8540 | .00670 | .01026 | .01108 | .01363 | .52618 |
| #2 | 3.0852 | .01271 | .21168 | .00989 | .02015 | 1.0145 | .04148 | 2.8424 | .00914 | .01260 | .01115 | .01691 | .53070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1309** | **.10056** | **.00983** | **.01461** | **.00962** | **.01519** | F **.10929** | **.00989** | **.02208** | **.01407** |
| Stddev | .0068 | .00009 | .00006 | .00073 | .00046 | .00141 | .04513 | .00049 | .00026 | .00128 |
| %RSD | .60404 | .08648 | .60818 | 4.9776 | 4.7664 | 9.2999 | 41.291 | 4.9214 | 1.1858 | 9.1051 |
| #1 | 1.1260 | .10062 | .00979 | .01410 | .00994 | .01619 | .14120 | .01023 | .02226 | .01316 |
| #2 | 1.1357 | .10050 | .00987 | .01512 | .00930 | .01419 | .07738 | .00954 | .02189 | .01497 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8307.1** | **85335.** | **8212.9** |
| Stddev | 11.1 | 56. | 49.7 |
| %RSD | .13331 | .06618 | .60479 |
| #1 | 8299.3 | 85295. | 8177.8 |
| #2 | 8315.0 | 85375. | 8248.0 |

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# *ICP Data Review Checklist*

| | | | |
|---|---|---|---|
| **TALS BATCH NUMBER:** 175814-175816, 175818-175820, 175845 | | **Earliest due date:** 5/23/13 | |
| **Run Date:** 5/23/13 | **Analyst:** JKH | **Instrument:** 25 | |
| **QC programs/Methods Run:** 200.7 6010B 6010C | | | |

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < 1/2 RL or CRDL (CLP) or < 2.2x MDL 200.7 ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | ✓ | | | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | ✓ | | | ✓ |
| 5. Serial dilution done per prep batch (or per SDG for CLP)? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP, DOD & AFCEE only)? NCM Whether needed for DODV3, AFCEE 4.0, 6010c? | ✓ | | | ✓ |
| **B. Calibration/Instrument Run QC** | | | | |
| 1. ICV/CCV analyzed at appropriate frequency and within control limits ? (**6010B**: CLP = 90 - 110%; **200.7:** ICV = 95 - 105%, CCV 90-110%) If not in control, was the ICV or CCV reanalyzed twice to show return to control as per NELAP? | ✓ | | | ✓ |
| 2. ICB/CCB analyzed at appropriate frequency and <1/2RL or < 2X MDL ( DOD V3,AFCEE 4.0)? Was it less than the MDLV (6010C) | ✓ | | | ✓ |
| 3. High Standard (HIGH) reanalyzed before samples and recovered within QC limits? (+-5%) | ✓ | | | ✓ |
| 4. RL STD run and recovered within QC limits ? (± 50% for non-CLP, ± 20% for DoD V3 / AFCEE 4.0 / USACE) | ✓ | | | ✓ |
| 5. Was the LLICV/LLCCV analyzed at appropriate frequency for 6010C and within control (+-30 % or +-20%) | ✓ | | | ✓ |
| 6. ICSA/ICSAB run at required frequency and within SOP limits? (ICSA < 2X MDL AFCEE 4.0, DOD V3 or <RL std work or <MDLV 6010C)) | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. For 6010B, were samples with concentrations > the linear range for any parameter diluted and reanalyzed? For 200.7, were samples with concentrations within 90% of the linear range diluted and reanalyzed? | ✓ | | | ✓ |
| 2. Are all reported results bracketed by in control QC? | ✓ | | | ✓ |
| **D. Other** | | | | |
| 1. Are all nonconformances documented appropriately? | ✓ | | | ✓ |
| 2. Calculations checked for errors? | ✓ | | | ✓ |
| 3. Transcriptions checked for errors? (Example: Are dilution factors that are entered into the sequence log correct?) | ✓ | | | ✓ |
| 4. All client/project specific requirements met? | ✓ | | | ✓ |
| 5. Date/time of analysis verified as correct? | ✓ | | | ✓ |
| 6. PDF attached, verified uncorrupted? | ✓ | | | ✓ |

**Analyst:** JKH **Date:** 5/24/13

**Comments:**

**2nd Level Reviewer** Heidi Bruen **Date:** 5/24/13

**Comments:**

Sample Name: ICIS Acquired: 5/14/2013 12:02:42 Type: Cal
Method: 6500_026(v9) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00251** | **.00058** | **-.03259** | **-.00054** | **.00329** | **.00590** | **.00044** | **-.00092** | **.01051** | **.00089** | **-.00078** | **-.00111** |
| Stddev | .00011 | .00008 | .00018 | .00008 | .00005 | .00188 | .00012 | .00019 | .00008 | .00008 | .00013 | .00020 |
| %RSD | 4.2122 | 14.528 | .55188 | 14.941 | 1.5998 | 31.939 | 26.247 | 20.837 | .77995 | 8.5188 | 16.789 | 18.060 |
| #1 | -.00259 | .00052 | -.03246 | -.00048 | .00332 | .00723 | .00052 | -.00078 | .01045 | .00084 | -.00088 | -.00126 |
| #2 | -.00244 | .00063 | -.03271 | -.00059 | .00325 | .00457 | .00036 | -.00105 | .01056 | .00095 | -.00069 | -.00097 |

| Elem | Cu3247 | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00171** | **.00034** | **.00211** | **-.00637** | **-.00768** | **-.00002** | **-.00006** | **.00019** | **.00941** | **-.00324** | **-.00112** | **.00057** |
| Stddev | .00006 | .00042 | .00021 | .00059 | .00059 | .00006 | .00001 | .00010 | .00042 | .00210 | .00013 | .00002 |
| %RSD | 3.7193 | 122.76 | 9.9175 | 9.3058 | 7.6288 | 247.76 | 12.404 | 54.548 | 4.4359 | 64.764 | 11.219 | 4.3388 |
| #1 | .00175 | .00005 | .00196 | -.00679 | -.00809 | .00002 | -.00005 | .00012 | .00911 | -.00472 | -.00103 | .00055 |
| #2 | .00166 | .00064 | .00226 | -.00596 | -.00726 | -.00006 | -.00006 | .00026 | .00970 | -.00175 | -.00121 | .00059 |

| Elem | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00132** | **-.00049** | **-.00030** | **-.00006** | **.00116** | **-.00001** | **-.00432** | **-.00001** | **-.00032** | **-.00052** | **.00035** | **.00039** |
| Stddev | .00018 | .00008 | .00014 | .00008 | .00055 | .00001 | .00005 | .00003 | .00007 | .00007 | .00004 | .00000 |
| %RSD | 13.624 | 15.870 | 48.583 | 143.25 | 47.353 | 92.230 | 1.2043 | 288.60 | 22.484 | 13.421 | 9.9888 | .85876 |
| #1 | .00145 | -.00043 | -.00040 | -.00012 | .00077 | -.00002 | -.00429 | -.00003 | -.00037 | -.00057 | .00033 | .00039 |
| #2 | .00119 | -.00054 | -.00019 | .00000 | .00155 | -.00000 | -.00436 | .00001 | -.00027 | -.00047 | .00038 | .00039 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **.00000** | **-.00274** |
| Stddev | .00002 | .00080 |
| %RSD | 700.49 | 29.158 |
| #1 | .00002 | -.00217 |
| #2 | -.00001 | -.00330 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6609.6** | **90766.** | **5710.7** |
| Stddev | .9 | 366. | 30.9 |
| %RSD | .01292 | .40296 | .54056 |
| #1 | 6610.2 | 90507. | 5688.9 |
| #2 | 6609.0 | 91025. | 5732.6 |

Sample Name: IC1 Acquired: 5/14/2013 12:05:14 Type: Cal
Method: 6500_026(v9) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.19979** | **.28460** | **.13091** | **.33217** | **4.0699** | **8.3969** | **2.2056** | **1.6067** | **.90841** | **1.1726** | **.27771** | **.91648** | **4.9555** |
| Stddev | .00072 | .00060 | .00004 | .00001 | .0007 | .0323 | .0013 | .0028 | .00162 | .0002 | .00076 | .00012 | .0057 |
| %RSD | .35824 | .21101 | .03358 | .00427 | .01626 | .38502 | .05922 | .17281 | .17876 | .01658 | .27290 | .01284 | .11573 |
| #1 | .20030 | .28418 | .13088 | .33216 | 4.0704 | 8.3740 | 2.2047 | 1.6047 | .90726 | 1.1727 | .27824 | .91656 | 4.9514 |
| #2 | .19929 | .28503 | .13094 | .33218 | 4.0694 | 8.4198 | 2.2065 | 1.6087 | .90955 | 1.1724 | .27717 | .91639 | 4.9596 |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2.2002** | **.73682** | **1.0321** | **.62412** | **1.7240** | **.77501** | **.09896** | **.48105** | **.21972** | **.11392** | **.47662** | **.30975** | **8.5004** |
| Stddev | .0061 | .00026 | .0007 | .00052 | .0002 | .00124 | .00000 | .00029 | .00016 | .00034 | .00014 | .00043 | .0056 |
| %RSD | .27662 | .03504 | .07126 | .08307 | .01275 | .16006 | .00406 | .06118 | .07399 | .29971 | .02973 | .13783 | .06620 |
| #1 | 2.1959 | .73700 | 1.0326 | .62449 | 1.7242 | .77589 | .09896 | .48084 | .21960 | .11416 | .47672 | .31005 | 8.5044 |
| #2 | 2.2045 | .73664 | 1.0315 | .62376 | 1.7239 | .77413 | .09896 | .48126 | .21983 | .11368 | .47652 | .30945 | 8.4965 |

| Elem | Ti3349 | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.29393** | **.23676** | **.19258** | **.03451** | **.38247** |
| Stddev | .00011 | .00021 | .00018 | .00008 | .00283 |
| %RSD | .03582 | .08798 | .09559 | .22585 | .73945 |
| #1 | .29385 | .23662 | .19271 | .03446 | .38047 |
| #2 | .29400 | .23691 | .19245 | .03457 | .38447 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6413.2** | **87167.** | **5799.5** |
| Stddev | 6.8 | 17. | 18.4 |
| %RSD | .10530 | .01940 | .31670 |
| #1 | 6408.4 | 87155. | 5812.5 |
| #2 | 6418.0 | 87179. | 5786.5 |

Sample Name: IC2 Acquired: 5/14/2013 12:07:29 Type: Cal
Method: 6500_026(v9) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5.8916** | **.24197** | **.77144** | **2.6570** | **.37603** | **.45021** | **.09223** |
| Stddev | .0322 | .00023 | .00431 | .0198 | .00025 | .00005 | .00041 |
| %RSD | .54722 | .09636 | .55928 | .74315 | .06628 | .01209 | .44203 |
| | | | | | | | |
| #1 | 5.9144 | .24214 | .77449 | 2.6710 | .37585 | .45017 | .09252 |
| #2 | 5.8688 | .24181 | .76839 | 2.6430 | .37620 | .45025 | .09194 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6404.8** | **85716.** | **5700.8** |
| Stddev | 6.0 | 247. | 75.3 |
| %RSD | .09295 | .28856 | 1.3203 |
| | | | |
| #1 | 6409.0 | 85891. | 5647.6 |
| #2 | 6400.6 | 85541. | 5754.0 |

Sample Name: S1-2048691 Acquired: 5/14/2013 12:09:58 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0221** | **1.0257** | **2.0235** | **.99810** | **1.0075** | **1.0122** | **-.00237** | **10.161** | **1.0056** | **1.0071** | **1.0014** | **1.0081** |
| Stddev | .0019 | .0004 | .0005 | .00002 | .0056 | .0042 | .00084 | .056 | .0011 | .0018 | .0003 | .0009 |
| %RSD | .18372 | .03641 | .02292 | .00163 | .55843 | .41937 | 35.312 | .54683 | .10612 | .17553 | .02583 | .08901 |
| #1 | 1.0208 | 1.0260 | 2.0238 | .99809 | 1.0114 | 1.0152 | -.00178 | 10.200 | 1.0048 | 1.0059 | 1.0012 | 1.0075 |
| #2 | 1.0235 | 1.0254 | 2.0231 | .99811 | 1.0035 | 1.0092 | -.00297 | 10.121 | 1.0063 | 1.0084 | 1.0016 | 1.0088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.0866** | **101.95** | **2.0495** | **40.986** | **1.0173** | **.99718** | **10.467** | F **11.224** | **1.0039** | **2.0205** | **2.0143** | **.01245** |
| Stddev | .0407 | .71 | .0096 | .094 | .0024 | .00072 | .062 | .470 | .0018 | .0016 | .0006 | .00261 |
| %RSD | .80001 | .70034 | .47042 | .22857 | .23472 | .07236 | .59675 | 4.1864 | .17593 | .08098 | .03249 | 20.998 |
| #1 | 5.1153 | 102.45 | 2.0563 | 41.052 | 1.0190 | .99667 | 10.511 | 11.557 | 1.0026 | 2.0194 | 2.0147 | .01060 |
| #2 | 5.0578 | 101.44 | 2.0426 | 40.920 | 1.0157 | .99770 | 10.423 | 10.892 | 1.0051 | 2.0217 | 2.0138 | .01430 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None |
| Value | | | | | | | | 10.000 | | | | |
| Range | | | | | | | | 5.0000% | | | | |

| Elem | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0187** | **2.0121** | **10.143** | **2.0077** | **1.0014** | **.00725** | **1.0219** | **1.9981** | **.04896** | **1.0106** | **1.0290** | **1.0127** |
| Stddev | .0018 | .0017 | .042 | .0031 | .0076 | .00006 | .0006 | .0064 | .02682 | .0021 | .0069 | .0040 |
| %RSD | .08890 | .08300 | .41047 | .15330 | .76325 | .86936 | .05517 | .32130 | 54.777 | .20626 | .66600 | .39942 |
| #1 | 2.0174 | 2.0109 | 10.172 | 2.0055 | 1.0068 | .00721 | 1.0223 | 1.9935 | .06792 | 1.0120 | 1.0339 | 1.0156 |
| #2 | 2.0199 | 2.0133 | 10.113 | 2.0099 | .99599 | .00729 | 1.0215 | 2.0026 | .03000 | 1.0091 | 1.0242 | 1.0099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6444.8** | **85868.** | **5648.1** |
| Stddev | 15.3 | 494. | 38.5 |
| %RSD | .23761 | .57535 | .68080 |
| #1 | 6455.6 | 85519. | 5620.9 |
| #2 | 6434.0 | 86217. | 5675.3 |

Sample Name: S2-2048692 Acquired: 5/14/2013 12:12:12 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01681** | **100.44** | **-.00085** | **.00443** | **.00106** | **.00021** | **1.9952** | **.00307** | **-.00127** | **.00433** | **.00010** | **.00420** | **100.40** |
| Stddev | .00013 | .23 | .00205 | .00003 | .00033 | .00002 | .0039 | .00327 | .00013 | .00006 | .00026 | .00001 | .50 |
| %RSD | .76502 | .22467 | 239.81 | .57943 | 30.637 | 9.6594 | .19653 | 106.60 | 10.157 | 1.4582 | 267.97 | .31542 | .49770 |
| #1 | .01690 | 100.60 | .00059 | .00441 | .00083 | .00020 | 1.9980 | .00076 | -.00136 | .00437 | .00028 | .00419 | 100.75 |
| #2 | .01672 | 100.28 | -.00230 | .00445 | .00129 | .00023 | 1.9924 | .00539 | -.00117 | .00428 | -.00009 | .00421 | 100.05 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20703** | **.00165** | **-.01476** | **-.00127** | **-.00320** | **500.83** | **.00224** | **.00497** | **-.00098** | **10.073** | **.00096** | **.00463** | **.01264** |
| Stddev | .02939 | .00029 | .00734 | .00004 | .00009 | 1.42 | .00023 | .00008 | .00035 | .037 | .00127 | .00183 | .00097 |
| %RSD | 14.197 | 17.815 | 49.702 | 2.8438 | 2.7427 | .28373 | 10.093 | 1.5614 | 35.494 | .36296 | 131.50 | 39.451 | 7.6441 |
| #1 | .18625 | .00185 | -.00958 | -.00129 | -.00313 | 501.84 | .00208 | .00492 | -.00122 | 10.099 | .00007 | .00334 | .01332 |
| #2 | .22781 | .00144 | -.01995 | -.00124 | -.00326 | 499.83 | .00240 | .00503 | -.00073 | 10.047 | .00186 | .00592 | .01196 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00152** | **.00068** | **10.006** | **.00393** | **-.00440** | **19.935** | **.00001** | **.00499** | **-.06086** |
| Stddev | .00013 | .00005 | .009 | .00015 | .00068 | .071 | .00001 | .00016 | .00226 |
| %RSD | 8.3540 | 7.3183 | .09339 | 3.7155 | 15.496 | .35370 | 64.431 | 3.1483 | 3.7059 |
| #1 | .00143 | .00065 | 9.9996 | .00403 | -.00488 | 19.985 | .00002 | .00488 | -.05926 |
| #2 | .00161 | .00072 | 10.013 | .00382 | -.00392 | 19.885 | .00001 | .00510 | -.06245 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6349.6** | **83786.** | **5652.5** |
| Stddev | 16.6 | 265. | 20.5 |
| %RSD | .26150 | .31574 | .36303 |
| #1 | 6361.3 | 83599. | 5638.0 |
| #2 | 6337.8 | 83973. | 5667.0 |

Sample Name: ICVH-2050069 Acquired: 5/14/2013 12:15:13 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00457** | **40.120** | **-.00097** | **.00117** | **.00326** | **-.00002** | **.51875** | **.01499** | **-.00025** | **.00170** | **.00043** | **.00103** | **79.539** |
| Stddev | .00018 | .118 | .00097 | .00032 | .00008 | .00002 | .00017 | .00159 | .00004 | .00008 | .00014 | .00036 | .412 |
| %RSD | 3.8829 | .29327 | 100.08 | 27.209 | 2.3714 | 114.57 | .03319 | 10.582 | 16.890 | 4.7362 | 33.577 | 35.047 | .51747 |
| #1 | .00444 | 40.037 | -.00028 | .00140 | .00320 | -.00003 | .51863 | .01611 | -.00029 | .00164 | .00033 | .00128 | 79.248 |
| #2 | .00469 | 40.203 | -.00165 | .00095 | .00331 | -.00000 | .51887 | .01387 | -.00022 | .00176 | .00053 | .00077 | 79.830 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02197** | **.00002** | **-.01688** | **.00019** | **-.00128** | **41.331** | **.00139** | **.00119** | **-.00068** | **3.9334** | **-.00232** | **-.00059** | **.00541** |
| Stddev | .02943 | .00069 | .00083 | .00007 | .00035 | .054 | .00022 | .00238 | .00056 | .0032 | .00078 | .00064 | .00443 |
| %RSD | 133.92 | 4413.5 | 4.9238 | 34.025 | 26.998 | .13168 | 15.802 | 200.72 | 82.590 | .08039 | 33.839 | 107.13 | 81.948 |
| #1 | .04278 | .00050 | -.01630 | .00024 | -.00152 | 41.369 | .00123 | -.00050 | -.00108 | 3.9357 | -.00287 | -.00014 | .00855 |
| #2 | .00117 | -.00047 | -.01747 | .00015 | -.00104 | 41.292 | .00154 | .00287 | -.00028 | 3.9312 | -.00176 | -.00105 | .00228 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00003** | **2.9941** | **.00116** | **-.00198** | **5.1694** | **.00074** | **.00628** | **-.02206** |
| Stddev | .00044 | .00006 | .0071 | .00033 | .00045 | .0015 | .00067 | .00014 | .00144 |
| %RSD | 127.51 | 230.22 | .23668 | 28.538 | 22.949 | .02973 | 90.753 | 2.2005 | 6.5205 |
| #1 | .00065 | -.00002 | 2.9991 | .00092 | -.00230 | 5.1705 | .00027 | .00637 | -.02307 |
| #2 | .00003 | .00007 | 2.9891 | .00139 | -.00166 | 5.1683 | .00122 | .00618 | -.02104 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6584.6** | **86553.** | **5763.7** |
| Stddev | 3.0 | 168. | 12.1 |
| %RSD | .04530 | .19354 | .20916 |
| #1 | 6582.5 | 86434. | 5772.3 |
| #2 | 6586.7 | 86671. | 5755.2 |

Sample Name: ICV-2050070 Acquired: 5/14/2013 12:18:01 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25884** | **.24711** | **.24762** | **.24952** | **.25366** | **.24166** | **.00094** | **2.0446** | **.25122** | **.25318** | **.25013** | **.24738** |
| Stddev | .00047 | .00209 | .00132 | .00073 | .00089 | .00054 | .00008 | .0020 | .00150 | .00069 | .00124 | .00013 |
| %RSD | .18215 | .84492 | .53219 | .29392 | .35147 | .22478 | 8.5953 | .09769 | .59657 | .27248 | .49391 | .05299 |
| #1 | .25850 | .24858 | .24669 | .25004 | .25429 | .24204 | .00088 | 2.0460 | .25228 | .25367 | .25101 | .24729 |
| #2 | .25917 | .24563 | .24855 | .24900 | .25303 | .24128 | .00100 | 2.0432 | .25016 | .25269 | .24926 | .24748 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25055** | **20.778** | F **.26436** | **10.339** | **.25585** | **.24589** | **2.0887** | **.25377** | **1.9444** | **.25375** | **.00038** | **.24809** |
| Stddev | .00382 | .027 | .00087 | .013 | .00057 | .00063 | .0231 | .00107 | .0025 | .00096 | .00187 | .00062 |
| %RSD | 1.5235 | .13211 | .32842 | .12441 | .22180 | .25680 | 1.1045 | .42304 | .12820 | .38004 | 494.44 | .24999 |
| #1 | .25325 | 20.797 | .26498 | 10.348 | .25625 | .24634 | 2.1050 | .25452 | 1.9462 | .25307 | .00170 | .24765 |
| #2 | .24785 | 20.758 | .26375 | 10.330 | .25545 | .24545 | 2.0724 | .25301 | 1.9427 | .25443 | -.00094 | .24853 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .25000 | | | | | | | | | |
| Range | | | 5.0000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49260** | **2.0887** | **.49615** | **.24929** | **-.00004** | **.24690** | **.50630** | **-.00526** | **.24962** | F **.26283** | **.24163** |
| Stddev | .00544 | .0124 | .00135 | .00158 | .00041 | .00022 | .00081 | .02459 | .00135 | .00189 | .00091 |
| %RSD | 1.1041 | .59129 | .27180 | .63505 | 945.39 | .09106 | .15943 | 467.20 | .54040 | .72056 | .37533 |
| #1 | .49644 | 2.0975 | .49710 | .25041 | -.00034 | .24706 | .50572 | .01212 | .25058 | .26417 | .24099 |
| #2 | .48875 | 2.0800 | .49519 | .24817 | .00025 | .24675 | .50687 | -.02265 | .24867 | .26149 | .24227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .25000 | |
| Range | | | | | | | | | | 5.0000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6523.8** | **86234.** | **5595.3** |
| Stddev | 30.1 | 425. | 18.3 |
| %RSD | .46076 | .49276 | .32742 |
| #1 | 6502.6 | 85934. | 5582.4 |
| #2 | 6545.1 | 86535. | 5608.3 |

Sample Name: ICVL2049857 Acquired: 5/14/2013 12:20:19 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01034** | **.10049** | **.01521** | **.09868** | **.01079** | **.00099** | **.11059** | **.20563** | **.00517** | **.01085** | **.01037** | **.01492** |
| Stddev | .00034 | .00043 | .00236 | .00065 | .00004 | .00003 | .00564 | .00004 | .00004 | .00008 | .00003 | .00012 |
| %RSD | 3.2593 | .42710 | 15.522 | .66310 | .32603 | 2.8931 | 5.0964 | .02175 | .74119 | .69150 | .26321 | .81903 |
| #1 | .01011 | .10079 | .01354 | .09822 | .01076 | .00101 | .11458 | .20560 | .00520 | .01090 | .01035 | .01501 |
| #2 | .01058 | .10019 | .01688 | .09915 | .01081 | .00097 | .10661 | .20566 | .00515 | .01080 | .01039 | .01484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10907** | **3.1608** | **.01041** | **.21589** | **.01056** | **.01962** | **1.0966** | **.04207** | **2.9508** | **.01061** | **-.00072** | **.00974** |
| Stddev | .00144 | .0164 | .00080 | .00029 | .00007 | .00029 | .0091 | .00011 | .0008 | .00118 | .00114 | .00108 |
| %RSD | 1.3196 | .51739 | 7.6609 | .13312 | .62303 | 1.5020 | .82553 | .26740 | .02635 | 11.165 | 157.72 | 11.048 |
| #1 | .10805 | 3.1493 | .00984 | .21609 | .01051 | .01941 | 1.0902 | .04215 | 2.9502 | .01145 | .00008 | .01050 |
| #2 | .11009 | 3.1724 | .01097 | .21568 | .01061 | .01983 | 1.1030 | .04199 | 2.9513 | .00977 | -.00153 | .00898 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01685** | **.54762** | **.10163** | **.01022** | **.01434** | **.00996** | **.01603** | F **.08869** | **.00979** | **.02399** | **.01600** |
| Stddev | .00303 | .01166 | .00050 | .00011 | .00079 | .00001 | .00082 | .00305 | .00026 | .00036 | .00188 |
| %RSD | 17.990 | 2.1288 | .48725 | 1.0916 | 5.5188 | .07428 | 5.1262 | 3.4379 | 2.6564 | 1.4924 | 11.753 |
| #1 | .01899 | .55586 | .10198 | .01014 | .01378 | .00996 | .01545 | .09084 | .00961 | .02374 | .01467 |
| #2 | .01471 | .53938 | .10128 | .01029 | .01490 | .00997 | .01662 | .08653 | .00997 | .02424 | .01733 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .06000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6557.6** | **86857.** | **5586.4** |
| Stddev | 3.4 | 133. | 48.0 |
| %RSD | .05112 | .15367 | .85874 |
| #1 | 6560.0 | 86951. | 5552.5 |
| #2 | 6555.2 | 86762. | 5620.3 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 12:22:43 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00858** | **50.519** | **-.00068** | **.00162** | **.00033** | **.00003** | **1.0061** | **-.00442** | **-.00071** | **.00223** | **.00008** | **.00187** | **50.176** |
| Stddev | .00013 | .100 | .00139 | .00008 | .00080 | .00000 | .0025 | .00280 | .00002 | .00005 | .00016 | .00004 | .293 |
| %RSD | 1.4728 | .19791 | 205.32 | 4.7285 | 242.51 | 13.578 | .24821 | 63.412 | 2.2027 | 2.3857 | 191.45 | 1.9287 | .58423 |
| #1 | .00849 | 50.448 | -.00166 | .00156 | -.00024 | .00003 | 1.0043 | -.00640 | -.00072 | .00227 | .00019 | .00190 | 50.383 |
| #2 | .00867 | 50.590 | .00031 | .00167 | .00089 | .00003 | 1.0078 | -.00244 | -.00070 | .00220 | -.00003 | .00185 | 49.968 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01635** | **.00245** | **-.01299** | **-.00074** | **-.00164** | **252.62** | **.00122** | **-.00166** | **-.00000** | **5.0119** | **-.00002** | **-.00085** | **-.00383** |
| Stddev | .01583 | .00016 | .00245 | .00000 | .00005 | .47 | .00022 | .00261 | .00002 | .0079 | .00000 | .00095 | .00615 |
| %RSD | 96.803 | 6.4734 | 18.830 | .06040 | 3.3464 | .18739 | 18.103 | 157.02 | 600.26 | .15774 | 4.9659 | 111.72 | 160.68 |
| #1 | .02754 | .00256 | -.01126 | -.00074 | -.00160 | 252.96 | .00106 | .00018 | -.00002 | 5.0063 | -.00002 | -.00018 | .00052 |
| #2 | .00516 | .00233 | -.01472 | -.00074 | -.00167 | 252.29 | .00137 | -.00351 | .00001 | 5.0175 | -.00002 | -.00153 | -.00817 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **.00031** | **5.0280** | **.00196** | **-.00223** | **10.096** | **-.00016** | **.00311** | **-.03412** |
| Stddev | .00024 | .00017 | .0116 | .00044 | .00030 | .056 | .00024 | .00003 | .00396 |
| %RSD | 56.824 | 53.171 | .23146 | 22.312 | 13.405 | .55756 | 152.43 | 1.0655 | 11.601 |
| #1 | .00025 | .00019 | 5.0198 | .00165 | -.00202 | 10.056 | .00001 | .00309 | -.03132 |
| #2 | .00058 | .00043 | 5.0363 | .00226 | -.00244 | 10.135 | -.00033 | .00314 | -.03692 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6323.8** | **83273.** | **5630.6** |
| Stddev | 13.8 | 492. | .3 |
| %RSD | .21771 | .59061 | .00597 |
| #1 | 6314.1 | 83620. | 5630.4 |
| #2 | 6333.5 | 82925. | 5630.9 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 12:25:06 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50931** | **.48307** | **.99276** | **.49462** | **.49837** | **.49064** | **-.00193** | **5.0263** | **.49926** | **.50288** | **.49365** | **.49664** | **2.4765** |
| Stddev | .00144 | .00038 | .00338 | .00033 | .00551 | .00374 | .00060 | .0522 | .00037 | .00093 | .00051 | .00397 | .0220 |
| %RSD | .28218 | .07776 | .34067 | .06740 | 1.1059 | .76170 | 31.228 | 1.0387 | .07322 | .18485 | .10408 | .79916 | .88849 |
| #1 | .50830 | .48280 | .99037 | .49485 | .50227 | .49329 | -.00150 | 5.0632 | .49900 | .50223 | .49329 | .49384 | 2.4921 |
| #2 | .51033 | .48333 | .99515 | .49438 | .49447 | .48800 | -.00235 | 4.9894 | .49952 | .50354 | .49402 | .49945 | 2.4609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.493** | **1.0212** | **20.401** | **.50441** | **.49051** | **5.0276** | **.50050** | **.97782** | **1.0045** | **-.00580** | **.99874** | **.98563** | **5.0260** |
| Stddev | .452 | .0056 | .110 | .00312 | .00087 | .0747 | .00044 | .00103 | .0006 | .00091 | .00384 | .00099 | .0514 |
| %RSD | .89557 | .54799 | .53966 | .61790 | .17683 | 1.4862 | .08812 | .10534 | .06307 | 15.733 | .38488 | .10075 | 1.0217 |
| #1 | 50.812 | 1.0251 | 20.323 | .50220 | .48990 | 5.0804 | .50082 | .97855 | 1.0041 | -.00644 | .99603 | .98493 | 5.0623 |
| #2 | 50.173 | 1.0172 | 20.479 | .50661 | .49113 | 4.9748 | .50019 | .97709 | 1.0050 | -.00515 | 1.0015 | .98633 | 4.9897 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98666** | **.49251** | **.00004** | **.49383** | **.99708** | **.01205** | **.49583** | **.51251** | **.48779** |
| Stddev | .00007 | .00457 | .00055 | .00306 | .00216 | .00619 | .00286 | .00163 | .00464 |
| %RSD | .00724 | .92834 | 1412.4 | .62019 | .21655 | 51.348 | .57717 | .31823 | .95110 |
| #1 | .98671 | .49574 | -.00035 | .49167 | .99555 | .00768 | .49381 | .51135 | .49108 |
| #2 | .98661 | .48928 | .00043 | .49600 | .99860 | .01643 | .49786 | .51366 | .48451 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6473.3** | **85434.** | **5696.7** |
| Stddev | 10.6 | 57. | 64.8 |
| %RSD | .16353 | .06723 | 1.1381 |
| #1 | 6480.8 | 85475. | 5650.8 |
| #2 | 6465.8 | 85394. | 5742.5 |

Sample Name: ICB Acquired: 5/14/2013 12:27:20 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **-.00022** | **.00021** | **-.00021** | **.00057** | **.00001** | **.00210** | **-.00269** | **-.00017** | **.00032** | **.00001** | **-.00010** | **-.00001** |
| Stddev | .00064 | .00015 | .00138 | .00063 | .00006 | .00008 | .00139 | .00031 | .00004 | .00018 | .00003 | .00011 | .00216 |
| %RSD | 734.80 | 69.840 | 671.20 | 295.65 | 10.936 | 644.97 | 66.299 | 11.564 | 22.476 | 55.677 | 421.04 | 105.32 | 25223. |
| #1 | -.00054 | -.00011 | -.00077 | .00023 | .00062 | .00007 | .00309 | -.00247 | -.00020 | .00045 | .00003 | -.00003 | .00152 |
| #2 | .00036 | -.00032 | .00118 | -.00065 | .00053 | -.00004 | .00112 | -.00291 | -.00014 | .00019 | -.00001 | -.00018 | -.00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00341** | **-.00004** | **-.00220** | **-.00005** | **-.00006** | **.03945** | **.00016** | **-.00222** | **.00039** | **-.00392** | **-.00084** | **-.00071** | **.00164** |
| Stddev | .00460 | .00167 | .00048 | .00002 | .00020 | .00575 | .00019 | .00010 | .00019 | .00345 | .00404 | .00363 | .00422 |
| %RSD | 134.92 | 3744.2 | 21.979 | 34.915 | 343.14 | 14.577 | 119.88 | 4.5927 | 48.068 | 88.053 | 481.74 | 512.58 | 258.01 |
| #1 | .00016 | -.00123 | -.00255 | -.00006 | .00008 | .03538 | .00029 | -.00215 | .00025 | -.00636 | .00202 | -.00328 | -.00135 |
| #2 | .00667 | .00114 | -.00186 | -.00004 | -.00020 | .04351 | .00002 | -.00229 | .00052 | -.00148 | -.00369 | .00186 | .00462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **-.00002** | **-.00004** | **.00014** | **-.00030** | **.00720** | **.00008** | **.00248** | **-.00064** |
| Stddev | .00022 | .00003 | .00008 | .00032 | .00003 | .01490 | .00007 | .00040 | .00163 |
| %RSD | 238.16 | 190.91 | 198.68 | 223.94 | 9.7223 | 207.09 | 96.064 | 16.090 | 255.27 |
| #1 | .00006 | .00001 | .00002 | .00037 | -.00032 | .01774 | .00013 | .00276 | .00051 |
| #2 | -.00025 | -.00004 | -.00010 | -.00008 | -.00028 | -.00334 | .00002 | .00220 | -.00179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6501.5** | **86021.** | **5687.6** |
| Stddev | 13.7 | 394. | 7.2 |
| %RSD | .21043 | .45763 | .12681 |
| #1 | 6511.2 | 85742. | 5692.7 |
| #2 | 6491.9 | 86299. | 5682.5 |

Sample Name: CRI-2049858 Acquired: 5/14/2013 12:29:49 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01039** | **.09923** | W **.00782** | **.09438** | **.00521** | **.00090** | **.11276** | **.19643** | **.00513** | **.00551** | **.00988** |
| Stddev | .00003 | .00081 | .00377 | .00062 | .00057 | .00005 | .00107 | .00139 | .00020 | .00008 | .00003 |
| %RSD | .25235 | .81892 | 48.127 | .65180 | 10.950 | 5.1498 | .94817 | .70512 | 3.8912 | 1.4898 | .30071 |
| #1 | .01037 | .09981 | .01049 | .09482 | .00480 | .00094 | .11352 | .19545 | .00527 | .00557 | .00985 |
| #2 | .01041 | .09866 | .00516 | .09395 | .00561 | .00087 | .11201 | .19741 | .00499 | .00545 | .00990 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01000 | | | | | | | | |
| Range | | | -20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01025** | **.03521** | **1.0463** | **.01178** | **.20864** | **.00317** | **.00988** | **1.0098** | **.01029** | **.94518** | **.00266** |
| Stddev | .00041 | .00291 | .0670 | .00129 | .00218 | .00001 | .00007 | .0054 | .00005 | .00522 | .00056 |
| %RSD | 3.9753 | 8.2559 | 6.4024 | 10.964 | 1.0430 | .29634 | .72431 | .53696 | .49634 | .55213 | 20.990 |
| #1 | .00996 | .03727 | .99895 | .01087 | .20710 | .00316 | .00983 | 1.0059 | .01025 | .94149 | .00227 |
| #2 | .01054 | .03316 | 1.0937 | .01269 | .21018 | .00318 | .00993 | 1.0136 | .01032 | .94887 | .00306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09426** | **.01079** | W **.00639** | **.48342** | **.01940** | **.00504** | **.01085** | **.01013** | **.00970** | W **.07928** | **.00952** |
| Stddev | .00115 | .00010 | .00032 | .00093 | .00027 | .00011 | .00059 | .00012 | .00087 | .01813 | .00011 |
| %RSD | 1.2183 | .91890 | 4.9558 | .19176 | 1.3903 | 2.1047 | 5.4065 | 1.2164 | 8.9470 | 22.871 | 1.1616 |
| #1 | .09508 | .01072 | .00617 | .48277 | .01959 | .00497 | .01127 | .01005 | .01031 | .06646 | .00944 |
| #2 | .09345 | .01086 | .00662 | .48408 | .01921 | .00512 | .01044 | .01022 | .00909 | .09210 | .00960 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01000 | | | | | | | .06000 | |
| Range | | | -20.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.01314** | **.00959** |
| Stddev | .00010 | .00020 |
| %RSD | .76340 | 2.0506 |
| #1 | .01307 | .00946 |
| #2 | .01321 | .00973 |
| Check ? | Chk Warn | Chk Pass |
| Value | .01000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6501.0** | **86684.** | **5680.4** |
| Stddev | 5.1 | 207. | 17.8 |
| %RSD | .07786 | .23849 | .31323 |
| #1 | 6504.6 | 86831. | 5693.0 |
| #2 | 6497.4 | 86538. | 5667.8 |

Sample Name: cri-2050752 Acquired: 5/14/2013 12:35:21 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **-.00048** | **.01393** | **-.00122** | **.00071** | **-.00008** | **-.00138** | **-.00287** | **.00007** |
| Stddev | .00006 | .00007 | .00138 | .00031 | .00007 | .00001 | .00039 | .00455 | .00000 |
| %RSD | 13.597 | 13.951 | 9.8995 | 25.576 | 10.081 | 13.106 | 28.523 | 158.67 | 6.3144 |
| #1 | -.00051 | -.00043 | .01491 | -.00100 | .00066 | -.00007 | -.00110 | .00035 | .00007 |
| #2 | -.00042 | -.00053 | .01296 | -.00144 | .00076 | -.00009 | -.00166 | -.00608 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **-.00008** | **.00000** | **.00037** | **-.02721** | **.00280** | **-.00059** | **.00004** | **-.00008** |
| Stddev | .00003 | .00015 | .00041 | .00364 | .00748 | .00066 | .00093 | .00005 | .00016 |
| %RSD | 9.8841 | 196.71 | 11291. | 972.21 | 27.480 | 23.398 | 158.14 | 130.63 | 197.78 |
| #1 | .00027 | -.00018 | .00029 | .00295 | -.02192 | .00326 | -.00124 | .00007 | -.00020 |
| #2 | .00031 | .00003 | -.00029 | -.00220 | -.03250 | .00234 | .00007 | .00000 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00611** | **.00007** | **-.00582** | **-.00065** | **-.00097** | **.00056** | **.01549** | **.00553** | **.00001** |
| Stddev | .00210 | .00032 | .00412 | .00011 | .00110 | .00036 | .00215 | .00144 | .00043 |
| %RSD | 34.383 | 481.45 | 70.834 | 16.560 | 112.76 | 64.368 | 13.851 | 26.097 | 6610.5 |
| #1 | -.00759 | .00029 | -.00290 | -.00073 | -.00020 | .00081 | .01700 | .00451 | .00031 |
| #2 | -.00462 | -.00016 | -.00873 | -.00057 | -.00175 | .00030 | .01397 | .00655 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.00112** | **.00011** | **-.00012** | **.04404** | **.00046** | **.01998** | **-.00158** |
| Stddev | .00007 | .00260 | .00006 | .00029 | .04093 | .00030 | .00020 | .00418 |
| %RSD | 1462.8 | 233.00 | 57.711 | 238.92 | 92.952 | 63.583 | .99047 | 264.75 |
| #1 | .00006 | .00296 | .00015 | .00008 | .01509 | .00026 | .02012 | -.00454 |
| #2 | -.00005 | -.00072 | .00007 | -.00033 | .07298 | .00067 | .01984 | .00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6404.2** | **84539.** | **5656.4** |
| Stddev | 2.9 | 61. | 20.7 |
| %RSD | .04500 | .07265 | .36573 |
| #1 | 6402.1 | 84583. | 5641.8 |
| #2 | 6406.2 | 84496. | 5671.0 |

Sample Name: ICSA-2050073 Acquired: 5/14/2013 12:39:39 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00092** | **510.69** | **.00005** | F **-.00329** | W **.00084** | **-.00027** | **-.00751** | **480.19** | W **.00072** | **.00035** | F **.00194** |
| Stddev | .00017 | 2.61 | .00249 | .00022 | .00049 | .00001 | .00152 | .72 | .00007 | .00010 | .00026 |
| %RSD | 18.760 | .51055 | 4523.2 | 6.7906 | 58.799 | 3.3961 | 20.229 | .15088 | 10.128 | 28.707 | 13.240 |
| #1 | -.00104 | 508.84 | -.00170 | -.00345 | .00118 | -.00027 | -.00644 | 479.67 | .00077 | .00042 | .00213 |
| #2 | -.00080 | 512.53 | .00181 | -.00313 | .00049 | -.00026 | -.00858 | 480.70 | .00067 | .00028 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Fail |
| High Limit | | | | .00312 | .00058 | | | | .00045 | | .00123 |
| Low Limit | | | | -.00312 | -.00058 | | | | -.00045 | | -.00132 |

| Elem | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00405** | **189.51** | **-.07172** | W **.00393** | **519.33** | F **.00394** | **-.00147** | W **.12699** | W **.00220** | F **-.01152** | **.00077** |
| Stddev | .00014 | .82 | .02180 | .00250 | 2.00 | .00004 | .00042 | .02439 | .00029 | .00199 | .00028 |
| %RSD | 3.3641 | .43385 | 30.399 | 63.647 | .38541 | .89873 | 28.331 | 19.208 | 13.210 | 17.308 | 36.285 |
| #1 | .00414 | 188.93 | -.08713 | .00570 | 517.92 | .00396 | -.00118 | .10974 | .00241 | -.01293 | .00057 |
| #2 | .00395 | 190.10 | -.05630 | .00216 | 520.75 | .00391 | -.00177 | .14424 | .00199 | -.01011 | .00097 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Warn | Chk Fail | Chk Pass |
| High Limit | .00272 | | | .00261 | | .00051 | | .09160 | .00129 | .01000 | |
| Low Limit | -.00272 | | | -.00261 | | -.00051 | | -.09160 | -.00129 | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05383** | W **-.00416** | W **-.00622** | **.00303** | **-.00102** | F **.00223** | F **.02170** | **-.00019** | **-.00178** | **.04216** | F **.00291** |
| Stddev | .00056 | .00200 | .00595 | .02302 | .00086 | .00016 | .00307 | .00009 | .00155 | .00753 | .00024 |
| %RSD | 1.0402 | 48.057 | 95.667 | 760.53 | 83.613 | 6.9506 | 14.154 | 49.621 | 87.283 | 17.859 | 8.1523 |
| #1 | -.05423 | -.00275 | -.01042 | .01930 | -.00042 | .00234 | .02387 | -.00025 | -.00288 | .03683 | .00308 |
| #2 | -.05344 | -.00558 | -.00201 | -.01325 | -.00163 | .00212 | .01952 | -.00012 | -.00068 | .04748 | .00274 |
| Check ? | None | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | None | Chk Fail |
| High Limit | | .00314 | .00486 | | | .00060 | .01000 | | | | .00222 |
| Low Limit | | -.00314 | -.00486 | | | -.00060 | -.01000 | | | | -.00222 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.01089** | **-.00137** |
| Stddev | .00060 | .00224 |
| %RSD | 5.5499 | 163.10 |
| #1 | .01132 | -.00295 |
| #2 | .01046 | .00021 |
| Check ? | Chk Fail | Chk Pass |
| High Limit | .00906 | |
| Low Limit | -.00906 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5803.2** | **75276.** | **5419.0** |
| Stddev | 3.3 | 156. | 20.2 |
| %RSD | .05701 | .20773 | .37287 |
| #1 | 5805.5 | 75386. | 5433.3 |
| #2 | 5800.9 | 75165. | 5404.7 |

Sample Name: ICSAB-2050074 Acquired: 5/14/2013 12:42:43 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1460** | **513.89** | **2.0471** | **1.9842** | **.50698** | **.48714** | **1.0459** | **480.35** | **1.0589** | **.48591** | **.49625** | **.54868** | **191.48** | **53.101** |
| Stddev | .0021 | .77 | .0032 | .0037 | .00237 | .00039 | .0014 | 9.69 | .0006 | .00061 | .00080 | .00058 | .75 | .005 |
| %RSD | .18629 | .14947 | .15704 | .18620 | .46837 | .08037 | .13747 | 2.0169 | .05593 | .12650 | .16079 | .10632 | .38981 | .01035 |
| #1 | 1.1445 | 513.35 | 2.0448 | 1.9816 | .50530 | .48742 | 1.0469 | 487.20 | 1.0593 | .48547 | .49569 | .54909 | 190.95 | 53.097 |
| #2 | 1.1475 | 514.44 | 2.0494 | 1.9869 | .50866 | .48686 | 1.0449 | 473.50 | 1.0585 | .48634 | .49682 | .54827 | 192.00 | 53.105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0744** | **522.34** | **.51836** | **.96111** | **52.617** | **.95007** | **2.0145** | **.97043** | **1.0079** | **1.0262** | **5.0996** | **10.376** | **9.3148** | **.98406** |
| Stddev | .0031 | 3.58 | .00120 | .00090 | .245 | .00018 | .0014 | .00241 | .0017 | .0021 | .0129 | .046 | .0107 | .00068 |
| %RSD | .28537 | .68614 | .23173 | .09362 | .46626 | .01843 | .06930 | .24812 | .17271 | .20552 | .25207 | .43918 | .11469 | .06942 |
| #1 | 1.0723 | 519.81 | .51921 | .96047 | 52.444 | .95019 | 2.0155 | .96873 | 1.0066 | 1.0276 | 5.1087 | 10.344 | 9.3072 | .98454 |
| #2 | 1.0766 | 524.88 | .51751 | .96175 | 52.791 | .94994 | 2.0135 | .97213 | 1.0091 | 1.0247 | 5.0905 | 10.408 | 9.3224 | .98357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0553** | **1.0151** | **8.8530** | **.03203** | **.51759** | **1.0308** | **.95369** |
| Stddev | .0050 | .0001 | .0056 | .01714 | .00167 | .0034 | .00623 |
| %RSD | .24410 | .00664 | .06341 | 53.500 | .32352 | .32976 | .65290 |
| #1 | 2.0517 | 1.0152 | 8.8490 | .01992 | .51877 | 1.0332 | .94928 |
| #2 | 2.0588 | 1.0151 | 8.8570 | .04415 | .51641 | 1.0284 | .95809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5773.9** | **75071.** | **5375.4** |
| Stddev | 3.4 | 416. | 18.9 |
| %RSD | .05924 | .55397 | .35117 |
| #1 | 5776.3 | 74777. | 5362.0 |
| #2 | 5771.4 | 75365. | 5388.7 |

Sample Name: LRA-1967851 Acquired: 5/14/2013 12:45:40 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8797** | **.05442** | **9.8694** | **9.7700** | F **6.1299** | **.00145** | **-.02103** | **-.02019** | **2.0388** | **5.0242** | **9.9649** | **10.359** |
| Stddev | .0028 | .00642 | .0148 | .0010 | .0170 | .00004 | .00093 | .00052 | .0014 | .0024 | .0078 | .020 |
| %RSD | .14939 | 11.795 | .15022 | .00975 | .27742 | 2.6766 | 4.4321 | 2.5834 | .06748 | .04885 | .07879 | .19506 |
| #1 | 1.8777 | .04988 | 9.8799 | 9.7707 | 6.1419 | .00142 | -.02169 | -.02056 | 2.0398 | 5.0259 | 9.9705 | 10.373 |
| #2 | 1.8817 | .05896 | 9.8589 | 9.7693 | 6.1179 | .00148 | -.02037 | -.01982 | 2.0378 | 5.0224 | 9.9594 | 10.345 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | 12.000 | | | | | | | |
| Range | | | | | -10.000% | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **510.51** | **-.37370** | **.00086** | **-.14154** | **10.079** | **9.7349** | **-.00217** | **10.104** | **-.02496** | **10.331** | **-.11007** | **.01288** |
| Stddev | 4.61 | .04487 | .00191 | .00238 | .025 | .0052 | .00546 | .004 | .00053 | .003 | .00322 | .00191 |
| %RSD | .90358 | 12.008 | 222.80 | 1.6794 | .24924 | .05385 | 251.41 | .04209 | 2.1041 | .02590 | 2.9284 | 14.792 |
| #1 | 513.77 | -.34197 | .00221 | -.13986 | 10.062 | 9.7386 | .00169 | 10.107 | -.02533 | 10.333 | -.10779 | .01423 |
| #2 | 507.24 | -.40543 | -.00049 | -.14322 | 10.097 | 9.7312 | -.00603 | 10.101 | -.02459 | 10.329 | -.11235 | .01154 |
| Check ? | Chk Pass | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.9659** | **49.301** | **.00842** | **10.049** | **.05233** | **9.9548** | **9.9393** | **.13632** | **10.112** | **10.218** | **-.00938** |
| Stddev | .0006 | .148 | .00029 | .070 | .00329 | .0010 | .0071 | .03976 | .019 | .007 | .00054 |
| %RSD | .01145 | .30021 | 3.4406 | .69380 | 6.2919 | .00975 | .07165 | 29.167 | .18318 | .06430 | 5.7448 |
| #1 | 4.9663 | 49.406 | .00821 | 10.098 | .05000 | 9.9555 | 9.9443 | .10821 | 10.125 | 10.213 | -.00900 |
| #2 | 4.9655 | 49.197 | .00862 | 9.9993 | .05466 | 9.9541 | 9.9342 | .16444 | 10.099 | 10.222 | -.00977 |
| Check ? | None | None | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6333.1** | **83744.** | **5594.8** |
| Stddev | 11.1 | 17. | 57.1 |
| %RSD | .17604 | .02045 | 1.0211 |
| #1 | 6341.0 | 83756. | 5554.4 |
| #2 | 6325.2 | 83731. | 5635.2 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 12:48:13 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00803** | **50.999** | **-.00049** | **.01844** | **.00118** | **-.00004** | **1.0031** | **-.00114** | **-.00097** | **.00255** | **.00001** | **.00250** | **51.086** |
| Stddev | .00016 | .049 | .00036 | .00184 | .00019 | .00013 | .0029 | .00237 | .00006 | .00010 | .00010 | .00019 | .184 |
| %RSD | 2.0549 | .09633 | 73.901 | 9.9995 | 15.806 | 300.87 | .28459 | 207.03 | 6.1676 | 4.0088 | 774.69 | 7.4181 | .35950 |
| #1 | .00791 | 51.033 | -.00023 | .01974 | .00132 | .00005 | 1.0051 | -.00282 | -.00101 | .00263 | .00008 | .00263 | 50.956 |
| #2 | .00814 | 50.964 | -.00074 | .01714 | .00105 | -.00013 | 1.0011 | .00053 | -.00092 | .00248 | -.00006 | .00237 | 51.216 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01566** | **.00222** | **-.01629** | **-.00060** | **-.00092** | **257.14** | **.00098** | **-.00157** | **.00124** | **5.0510** | **.00015** | **-.00006** | **.05343** |
| Stddev | .02914 | .00096 | .00314 | .00000 | .00032 | .46 | .00011 | .00130 | .00186 | .0054 | .00113 | .00038 | .01441 |
| %RSD | 186.15 | 43.432 | 19.274 | .46762 | 35.313 | .17837 | 11.677 | 82.917 | 149.58 | .10641 | 729.62 | 591.67 | 26.964 |
| #1 | -.03626 | .00154 | -.01407 | -.00061 | -.00069 | 257.46 | .00106 | -.00250 | .00256 | 5.0472 | -.00064 | -.00033 | .06362 |
| #2 | .00495 | .00290 | -.01851 | -.00060 | -.00114 | 256.81 | .00090 | -.00065 | -.00007 | 5.0548 | .00095 | .00020 | .04324 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00048** | **5.0684** | **.00269** | **-.00100** | **10.122** | **.00033** | **.00342** | **-.03707** |
| Stddev | .00031 | .00024 | .0274 | .00032 | .00012 | .050 | .00007 | .00010 | .00020 |
| %RSD | 122.52 | 50.716 | .54162 | 11.767 | 12.280 | .49347 | 19.759 | 2.9956 | .53416 |
| #1 | .00046 | .00065 | 5.0490 | .00292 | -.00092 | 10.086 | .00029 | .00349 | -.03693 |
| #2 | .00003 | .00031 | 5.0878 | .00247 | -.00109 | 10.157 | .00038 | .00335 | -.03721 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6245.1** | **81222.** | **5419.9** |
| Stddev | 18.5 | 167. | 21.9 |
| %RSD | .29560 | .20561 | .40335 |
| #1 | 6258.1 | 81340. | 5404.5 |
| #2 | 6232.0 | 81104. | 5435.4 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 12:50:35 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51599** | **.49089** | **1.0107** | **.51075** | **.50058** | **.49193** | **-.00046** | **5.0520** | **.50418** | **.50994** | **.49960** | **.50122** | **2.4858** |
| Stddev | .00077 | .00048 | .0039 | .00047 | .00475 | .00415 | .00133 | .0502 | .00074 | .00078 | .00001 | .00128 | .0209 |
| %RSD | .14831 | .09778 | .38912 | .09217 | .94921 | .84344 | 292.58 | .99317 | .14686 | .15199 | .00124 | .25487 | .84219 |
| #1 | .51545 | .49055 | 1.0079 | .51042 | .50394 | .49486 | .00049 | 5.0875 | .50366 | .50939 | .49961 | .50032 | 2.5006 |
| #2 | .51653 | .49123 | 1.0135 | .51108 | .49722 | .48899 | -.00140 | 5.0165 | .50470 | .51049 | .49960 | .50213 | 2.4710 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.808** | **1.0220** | **20.979** | **.51580** | **.49550** | **4.9677** | **.50823** | **.99482** | **1.0184** | **-.00201** | **1.0061** | **1.0032** | **5.0746** |
| Stddev | .385 | .0093 | .022 | .00040 | .00072 | .0317 | .00048 | .00857 | .0037 | .00191 | .0062 | .0099 | .0361 |
| %RSD | .75836 | .90828 | .10487 | .07670 | .14463 | .63860 | .09377 | .86177 | .36058 | 94.971 | .61919 | .99018 | .71086 |
| #1 | 51.081 | 1.0285 | 20.963 | .51552 | .49601 | 4.9901 | .50790 | .98876 | 1.0158 | -.00066 | 1.0016 | .99614 | 5.1001 |
| #2 | 50.536 | 1.0154 | 20.994 | .51608 | .49500 | 4.9452 | .50857 | 1.0009 | 1.0210 | -.00336 | 1.0105 | 1.0102 | 5.0490 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0015** | **.49398** | **.00021** | **.50416** | **1.0060** | **-.00314** | **.50645** | **.53062** | **.49171** |
| Stddev | .0018 | .00537 | .00271 | .00044 | .0053 | .03237 | .00039 | .00010 | .00221 |
| %RSD | .18218 | 1.0875 | 1264.9 | .08647 | .52849 | 1029.5 | .07728 | .01896 | .44992 |
| #1 | 1.0002 | .49778 | .00213 | .50385 | 1.0022 | .01974 | .50618 | .53069 | .49327 |
| #2 | 1.0028 | .49018 | -.00170 | .50447 | 1.0097 | -.02603 | .50673 | .53055 | .49014 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6377.8** | **83079.** | **5586.8** |
| Stddev | 8.1 | 96. | 47.6 |
| %RSD | .12659 | .11603 | .85132 |
| #1 | 6372.1 | 83147. | 5553.2 |
| #2 | 6383.6 | 83010. | 5620.5 |

Sample Name: CCB Acquired: 5/14/2013 12:52:48 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00065** | **-.00040** | **.00108** | F **.00653** | **.00021** | **.00000** | **-.00078** | **-.00339** | **-.00009** | **.00046** | **.00003** | **.00011** |
| Stddev | .00031 | .00018 | .00108 | .00040 | .00006 | .00001 | .00212 | .00453 | .00021 | .00017 | .00007 | .00008 |
| %RSD | 48.019 | 45.803 | 99.780 | 6.1410 | 27.305 | 576.87 | 270.30 | 133.68 | 240.33 | 36.420 | 232.59 | 73.269 |
| #1 | -.00087 | -.00027 | .00032 | .00681 | .00017 | -.00000 | -.00228 | -.00019 | -.00024 | .00034 | .00008 | .00005 |
| #2 | -.00043 | -.00053 | .00185 | .00625 | .00025 | .00001 | .00071 | -.00660 | .00006 | .00058 | -.00002 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00081** | **-.03435** | **.00106** | **.00032** | **-.00001** | **-.00003** | **-.03372** | **-.00005** | **-.00480** | **-.00010** | **-.00057** | **-.00059** |
| Stddev | .00163 | .04007 | .00112 | .00152 | .00003 | .00026 | .01123 | .00032 | .00277 | .00008 | .00357 | .00086 |
| %RSD | 200.58 | 116.66 | 105.13 | 477.97 | 242.21 | 741.47 | 33.300 | 642.58 | 57.669 | 81.673 | 626.99 | 144.51 |
| #1 | -.00197 | -.00601 | .00185 | -.00076 | -.00003 | -.00022 | -.02578 | -.00028 | -.00284 | -.00004 | .00196 | -.00120 |
| #2 | .00034 | -.06269 | .00027 | .00139 | .00001 | .00015 | -.04166 | .00018 | -.00676 | -.00015 | -.00309 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **-.00834** | **-.00069** | **-.00002** | **.00111** | **.00004** | **.00044** | **.01829** | **-.00030** | **.00252** | **-.00114** |
| Stddev | .00168 | .00544 | .00042 | .00002 | .00227 | .00067 | .00076 | .01158 | .00031 | .00001 | .00171 |
| %RSD | 410.85 | 65.152 | 61.774 | 102.84 | 204.23 | 1541.8 | 172.25 | 63.327 | 101.85 | .56444 | 150.44 |
| #1 | -.00078 | -.01219 | -.00099 | -.00001 | .00272 | -.00043 | .00098 | .01010 | -.00008 | .00251 | -.00234 |
| #2 | .00160 | -.00450 | -.00039 | -.00003 | -.00049 | .00051 | -.00010 | .02648 | -.00052 | .00253 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6443.0** | **84429.** | **5549.4** |
| Stddev | 13.9 | 492. | 33.3 |
| %RSD | .21502 | .58295 | .59959 |
| #1 | 6433.2 | 84081. | 5573.0 |
| #2 | 6452.8 | 84777. | 5525.9 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 12:55:17 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00986** | **.10018** | **.01568** | **.10330** | **.01064** | **.00097** | **.10920** | **.20668** | **.00509** | **.01099** | **.01025** |
| Stddev | .00062 | .00028 | .00013 | .00048 | .00005 | .00003 | .00064 | .00163 | .00026 | .00003 | .00010 |
| %RSD | 6.2416 | .28116 | .81114 | .46245 | .47883 | 3.2338 | .58733 | .78952 | 5.1112 | .28471 | .93663 |
| #1 | .01030 | .10038 | .01577 | .10364 | .01060 | .00094 | .10965 | .20784 | .00527 | .01096 | .01031 |
| #2 | .00943 | .09998 | .01559 | .10296 | .01067 | .00099 | .10875 | .20553 | .00490 | .01101 | .01018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01549** | **.10602** | **3.1079** | **.00955** | **.21988** | **.01063** | **.01951** | **1.0268** | **.04170** | **2.9717** | **.01069** |
| Stddev | .00034 | .00149 | .0115 | .00130 | .00166 | .00003 | .00018 | .0096 | .00001 | .0025 | .00050 |
| %RSD | 2.2246 | 1.4099 | .37011 | 13.563 | .75368 | .31006 | .93511 | .93197 | .03199 | .08405 | 4.6481 |
| #1 | .01524 | .10496 | 3.0998 | .01047 | .22105 | .01065 | .01964 | 1.0335 | .04171 | 2.9734 | .01104 |
| #2 | .01573 | .10708 | 3.1161 | .00864 | .21871 | .01061 | .01938 | 1.0200 | .04169 | 2.9699 | .01034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00201** | **.01031** | **.01281** | **.53282** | **.10148** | **.00998** | **.01436** | **.01008** | **.01498** | F **.10260** | **.00996** |
| Stddev | .00095 | .00075 | .00002 | .00148 | .00059 | .00018 | .00012 | .00005 | .00008 | .01645 | .00015 |
| %RSD | 47.245 | 7.3184 | .12266 | .27833 | .58077 | 1.7876 | .83295 | .45811 | .56314 | 16.031 | 1.4561 |
| #1 | -.00134 | .00978 | .01282 | .53178 | .10106 | .01011 | .01444 | .01011 | .01504 | .11423 | .00986 |
| #2 | -.00268 | .01084 | .01280 | .53387 | .10190 | .00985 | .01427 | .01005 | .01492 | .09097 | .01007 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02466** | **.01554** |
| Stddev | .00066 | .00024 |
| %RSD | 2.6838 | 1.5273 |
| #1 | .02513 | .01571 |
| #2 | .02419 | .01537 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6522.6** | **85225.** | **5654.6** |
| Stddev | 8.6 | 614. | 31.2 |
| %RSD | .13237 | .72015 | .55178 |
| #1 | 6528.7 | 84791. | 5632.6 |
| #2 | 6516.5 | 85659. | 5676.7 |

Sample Name: MB 280-173472/1-A Acquired: 5/14/2013 12:57:43 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00133** | **.00335** | W **.00299** | **.00008** | **.00002** | **-.00186** | **-.00124** | **-.00006** |
| Stddev | .00007 | .00047 | .00049 | .00027 | .00006 | .00001 | .00156 | .00133 | .00005 |
| %RSD | 26.035 | 35.409 | 14.565 | 9.1109 | 84.909 | 79.820 | 83.660 | 107.71 | 84.677 |
| #1 | -.00030 | .00099 | .00370 | .00318 | .00003 | .00003 | -.00296 | -.00218 | -.00003 |
| #2 | -.00021 | .00166 | .00301 | .00280 | .00012 | .00001 | -.00076 | -.00030 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | |
| Low Limit | | | | -.00156 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00005** | **.00012** | **.00833** | **-.02624** | **.00141** | **-.00181** | **.00004** | **.00030** |
| Stddev | .00026 | .00017 | .00013 | .00030 | .02861 | .00189 | .00298 | .00004 | .00014 |
| %RSD | 65.411 | 361.91 | 103.85 | 3.5596 | 109.01 | 133.66 | 164.40 | 104.52 | 46.525 |
| #1 | .00021 | .00016 | .00003 | .00854 | -.00601 | .00008 | .00029 | .00001 | .00040 |
| #2 | .00058 | -.00007 | .00021 | .00812 | -.04647 | .00275 | -.00391 | .00006 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04110** | **.00006** | F **.11966** | **-.00029** | **.00136** | **-.00069** | **-.00162** | **.01794** | **-.00023** |
| Stddev | .00594 | .00005 | .00159 | .00116 | .00186 | .00024 | .00275 | .00611 | .00056 |
| %RSD | 14.440 | 80.798 | 1.3274 | 403.44 | 137.30 | 35.050 | 170.26 | 34.035 | 246.09 |
| #1 | -.03691 | .00003 | .11854 | .00053 | .00267 | -.00052 | -.00356 | .02226 | -.00062 |
| #2 | -.04530 | .00010 | .12079 | -.00111 | .00004 | -.00086 | .00033 | .01362 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .02970 | | | | | | |
| Low Limit | | | -.02970 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **-.00070** | **.00003** | **-.00056** | W **.02788** | **-.00009** | **.00210** | **-.00143** |
| Stddev | .00001 | .00131 | .00031 | .00066 | .00445 | .00029 | .00003 | .00023 |
| %RSD | 7.3905 | 187.33 | 1108.7 | 118.15 | 15.972 | 331.62 | 1.6299 | 15.936 |
| #1 | .00010 | -.00163 | .00025 | -.00102 | .03103 | .00012 | .00212 | -.00127 |
| #2 | .00011 | .00023 | -.00019 | -.00009 | .02473 | -.00029 | .00207 | -.00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01610 | | | |
| Low Limit | | | | | -.01610 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6532.5** | **85720.** | **5801.1** |
| Stddev | 2.2 | 53. | 76.4 |
| %RSD | .03343 | .06216 | 1.3172 |
| #1 | 6534.1 | 85682. | 5747.1 |
| #2 | 6531.0 | 85757. | 5855.2 |

Sample Name: LCS 280-173472/2-A Acquired: 5/14/2013 13:00:12 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05563** | **1.9077** | **1.0415** | **1.0463** | **2.0444** | **.04963** | **2.0919** | **50.425** | **.10600** |
| Stddev | .00116 | .0078 | .0098 | .0045 | .0088 | .00003 | .0214 | .200 | .00036 |
| %RSD | 2.0807 | .40846 | .94303 | .42546 | .43242 | .05812 | 1.0221 | .39733 | .33886 |
| #1 | .05481 | 1.9132 | 1.0485 | 1.0494 | 2.0506 | .04965 | 2.1070 | 50.567 | .10625 |
| #2 | .05644 | 1.9022 | 1.0346 | 1.0431 | 2.0381 | .04961 | 2.0768 | 50.284 | .10575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50761** | **.20270** | **.25285** | **1.0159** | **51.622** | **1.0221** | **52.750** | **.51431** | **1.0032** |
| Stddev | .00379 | .00078 | .00272 | .0067 | .161 | .0048 | .348 | .00346 | .0067 |
| %RSD | .74701 | .38451 | 1.0772 | .66399 | .31212 | .46555 | .65917 | .67209 | .66484 |
| #1 | .51029 | .20325 | .25092 | 1.0207 | 51.736 | 1.0255 | 52.504 | .51186 | 1.0079 |
| #2 | .50493 | .20215 | .25477 | 1.0111 | 51.508 | 1.0188 | 52.995 | .51675 | .99845 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.841** | **.50499** | **10.639** | **.50717** | **-.00487** | **.51706** | **2.0841** | **10.347** | **2.0096** |
| Stddev | .030 | .00389 | .059 | .00027 | .00034 | .00027 | .0074 | .015 | .0046 |
| %RSD | .05704 | .76993 | .55108 | .05337 | 7.0116 | .05151 | .35380 | .14436 | .22668 |
| #1 | 51.820 | .50774 | 10.680 | .50736 | -.00511 | .51687 | 2.0894 | 10.336 | 2.0128 |
| #2 | 51.862 | .50224 | 10.598 | .50698 | -.00463 | .51725 | 2.0789 | 10.357 | 2.0064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0003** | **1.0293** | **1.0113** | **1.9871** | **2.0654** | **.51388** | **.53166** | **.48556** |
| Stddev | .0062 | .0049 | .0077 | .0088 | .0241 | .00343 | .00442 | .00093 |
| %RSD | .61983 | .47408 | .75861 | .44279 | 1.1679 | .66762 | .83170 | .19112 |
| #1 | 1.0047 | 1.0259 | 1.0059 | 1.9933 | 2.0484 | .51145 | .52854 | .48490 |
| #2 | .99595 | 1.0328 | 1.0167 | 1.9809 | 2.0825 | .51631 | .53479 | .48621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6147.3** | **81916.** | **5662.6** |
| Stddev | 24.8 | 196. | 43.7 |
| %RSD | .40354 | .23877 | .77193 |
| #1 | 6129.8 | 82055. | 5631.7 |
| #2 | 6164.8 | 81778. | 5693.6 |

Sample Name: 280-41962-C-1-D Acquired: 5/14/2013 13:02:25 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.26201** | **-.00263** | **.02037** | **.15071** | **-.00005** | **-.00124** | **223.27** | **.00013** |
| Stddev | .00040 | .00074 | .00003 | .00033 | .00022 | .00008 | .00176 | .25 | .00009 |
| %RSD | 90.682 | .28156 | .97274 | 1.6025 | .14696 | 167.25 | 141.99 | .11155 | 67.084 |
| #1 | -.00073 | .26253 | -.00265 | .02060 | .15086 | -.00010 | .00000 | 223.44 | .00019 |
| #2 | -.00016 | .26149 | -.00262 | .02014 | .15055 | .00001 | -.00248 | 223.09 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **.00073** | **.00095** | **1.0380** | **1.5509** | **.00495** | **54.860** | **.04958** | **.00170** |
| Stddev | .00007 | .00008 | .00009 | .0024 | .0056 | .00071 | .036 | .00008 | .00015 |
| %RSD | 8.5158 | 10.677 | 9.2535 | .23503 | .35811 | 14.334 | .06483 | .15368 | 8.8662 |
| #1 | .00072 | .00079 | .00102 | 1.0397 | 1.5548 | .00445 | 54.885 | .04963 | .00160 |
| #2 | .00081 | .00067 | .00089 | 1.0363 | 1.5470 | .00545 | 54.835 | .04952 | .00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **78.511** | **.00117** | **.14970** | **.00010** | **8.0961** | **-.00157** | **-.00209** | **7.1499** | **-.00122** |
| Stddev | .104 | .00010 | .00338 | .00179 | .0026 | .00010 | .00876 | .0221 | .00019 |
| %RSD | .13277 | 8.5310 | 2.2586 | 1759.8 | .03192 | 6.0615 | 419.46 | .30945 | 15.384 |
| #1 | 78.437 | .00110 | .15209 | .00136 | 8.0979 | -.00164 | .00411 | 7.1343 | -.00108 |
| #2 | 78.584 | .00125 | .14731 | -.00116 | 8.0943 | -.00150 | -.00829 | 7.1656 | -.00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4233** | **-.00101** | **.00687** | **.00056** | **.00860** | **.00219** | **.00396** | **-.00083** |
| Stddev | .0073 | .00150 | .00004 | .00054 | .00550 | .00043 | .00008 | .00214 |
| %RSD | .21441 | 148.46 | .63816 | 95.787 | 63.983 | 19.791 | 1.9500 | 257.25 |
| #1 | 3.4285 | -.00207 | .00690 | .00018 | .00471 | .00250 | .00401 | .00068 |
| #2 | 3.4181 | .00005 | .00684 | .00095 | .01249 | .00188 | .00390 | -.00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6084.6** | **81214.** | **5579.2** |
| Stddev | 25.0 | 186. | 12.9 |
| %RSD | .41009 | .22910 | .23080 |
| #1 | 6102.3 | 81345. | 5588.3 |
| #2 | 6067.0 | 81082. | 5570.0 |

Sample Name: 280-41962-C-2-G Acquired: 5/14/2013 13:04:50 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00066** | **.01181** | **.00131** | **.01717** | **.07873** | **-.00009** | **-.00171** | **103.11** | **-.00016** |
| Stddev | .00112 | .00008 | .00075 | .00002 | .00013 | .00005 | .00122 | .47 | .00003 |
| %RSD | 169.51 | .69638 | 57.580 | .09042 | .16296 | 57.486 | 71.444 | .45605 | 17.972 |
| #1 | -.00145 | .01175 | .00184 | .01718 | .07882 | -.00006 | -.00257 | 103.44 | -.00019 |
| #2 | .00013 | .01186 | .00078 | .01716 | .07864 | -.00013 | -.00085 | 102.78 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00065** | **.00078** | **.22092** | **1.2271** | **.00344** | **27.645** | **.11610** | **-.00005** |
| Stddev | .00003 | .00000 | .00010 | .00212 | .0073 | .00015 | .034 | .00009 | .00008 |
| %RSD | 13.462 | .53739 | 12.468 | .95979 | .59807 | 4.3623 | .12383 | .07493 | 171.39 |
| #1 | .00022 | .00066 | .00085 | .21942 | 1.2323 | .00355 | 27.670 | .11616 | .00001 |
| #2 | .00027 | .00065 | .00071 | .22242 | 1.2219 | .00334 | 27.621 | .11603 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.696** | **.00059** | **.13248** | **.00027** | **17.224** | **.00035** | **.00026** | **5.6331** | **-.00009** |
| Stddev | .199 | .00006 | .00251 | .00070 | .017 | .00009 | .00168 | .0359 | .00017 |
| %RSD | .43573 | 9.7214 | 1.8941 | 259.50 | .10060 | 24.578 | 650.89 | .63677 | 186.51 |
| #1 | 45.837 | .00063 | .13425 | .00076 | 17.212 | .00029 | .00145 | 5.6585 | -.00022 |
| #2 | 45.556 | .00055 | .13070 | -.00022 | 17.236 | .00041 | -.00093 | 5.6078 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8077** | **-.00070** | **.00094** | **-.00084** | **-.00511** | **.00007** | **.00239** | **-.00011** |
| Stddev | .0120 | .00091 | .00004 | .00056 | .00148 | .00008 | .00065 | .00028 |
| %RSD | .66308 | 129.93 | 3.7390 | 65.766 | 28.919 | 103.29 | 27.290 | 259.02 |
| #1 | 1.8162 | -.00006 | .00096 | -.00045 | -.00616 | .00002 | .00286 | .00009 |
| #2 | 1.7992 | -.00134 | .00092 | -.00124 | -.00407 | .00013 | .00193 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6269.1** | **83038.** | **5640.8** |
| Stddev | .8 | 22. | 47.9 |
| %RSD | .01301 | .02684 | .84929 |
| #1 | 6268.6 | 83022. | 5607.0 |
| #2 | 6269.7 | 83053. | 5674.7 |

Sample Name: 280-41962-C-3-E Acquired: 5/14/2013 13:07:14 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.02396** | **-.00137** | **.20090** | **.52800** | **.00002** | **-.00137** | **2.9608** | **-.00020** |
| Stddev | .00043 | .00002 | .00189 | .00131 | .00085 | .00003 | .00394 | .0093 | .00009 |
| %RSD | 96.267 | .09542 | 138.52 | .65383 | .16053 | 159.03 | 287.31 | .31349 | 47.871 |
| #1 | -.00014 | .02394 | -.00003 | .19997 | .52740 | -.00000 | .00141 | 2.9543 | -.00013 |
| #2 | -.00074 | .02398 | -.00270 | .20183 | .52860 | .00004 | -.00415 | 2.9674 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00159** | **.00110** | **.89814** | **3.0579** | **.11730** | **.64685** | **.01446** | **.00061** |
| Stddev | .00006 | .00007 | .00004 | .00322 | .0001 | .00001 | .00060 | .00009 | .00007 |
| %RSD | 10.643 | 4.4784 | 3.5101 | .35887 | .00196 | .00828 | .09238 | .60699 | 12.031 |
| #1 | .00048 | .00164 | .00113 | .89586 | 3.0580 | .11731 | .64727 | .01453 | .00066 |
| #2 | .00056 | .00154 | .00108 | .90042 | 3.0579 | .11729 | .64643 | .01440 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **568.54** | **.00038** | **.18273** | **-.00080** | **.16110** | **-.00143** | **.00056** | **9.5791** | **.00062** |
| Stddev | .25 | .00023 | .00183 | .00098 | .00089 | .00049 | .00143 | .0120 | .00041 |
| %RSD | .04377 | 59.047 | .99891 | 122.44 | .54949 | 34.067 | 255.86 | .12571 | 66.330 |
| #1 | 568.72 | .00054 | .18143 | -.00150 | .16172 | -.00109 | .00157 | 9.5876 | .00091 |
| #2 | 568.36 | .00022 | .18402 | -.00011 | .16047 | -.00177 | -.00045 | 9.5705 | .00033 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55966** | **.00026** | **.00043** | **.00105** | **.03711** | **-.00010** | **.00521** | **.00207** |
| Stddev | .00095 | .00015 | .00001 | .00038 | .02417 | .00051 | .00020 | .00059 |
| %RSD | .17034 | 58.281 | 1.9003 | 35.927 | 65.130 | 512.03 | 3.8841 | 28.624 |
| #1 | .55899 | .00015 | .00043 | .00132 | .02002 | .00026 | .00506 | .00249 |
| #2 | .56033 | .00037 | .00044 | .00079 | .05420 | -.00046 | .00535 | .00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6104.1** | **80112.** | **5654.0** |
| Stddev | 6.1 | 579. | 7.7 |
| %RSD | .10021 | .72299 | .13551 |
| #1 | 6099.8 | 79703. | 5659.4 |
| #2 | 6108.4 | 80522. | 5648.6 |

Sample Name: sd 280-41962-C-3-E@5 Acquired: 5/14/2013 13:10:19 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **.00523** | **-.00137** | **.03916** | **.10717** | **-.00000** | **-.00229** | **.59603** | **-.00000** |
| Stddev | .00028 | .00031 | .00382 | .00014 | .00003 | .00009 | .00183 | .00094 | .00002 |
| %RSD | 74.878 | 6.0039 | 278.41 | .34896 | .03195 | 7735.0 | 79.958 | .15838 | 1017.3 |
| #1 | -.00017 | .00501 | .00133 | .03906 | .10719 | .00006 | -.00359 | .59669 | -.00001 |
| #2 | -.00056 | .00545 | -.00408 | .03926 | .10715 | -.00007 | -.00100 | .59536 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00047** | **.00092** | **.18882** | **.62773** | **.02404** | **.13157** | **.00298** | **-.00002** |
| Stddev | .00011 | .00007 | .00012 | .00105 | .00035 | .00188 | .00285 | .00002 | .00021 |
| %RSD | 27.972 | 14.587 | 13.169 | .55378 | .05637 | 7.8167 | 2.1686 | .78929 | 948.48 |
| #1 | .00047 | .00042 | .00083 | .18808 | .62748 | .02537 | .12955 | .00296 | -.00017 |
| #2 | .00032 | .00052 | .00100 | .18956 | .62798 | .02271 | .13358 | .00299 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **115.54** | **.00004** | **.03428** | **-.00033** | **.02973** | **-.00234** | **.00048** | **1.8984** | **-.00049** |
| Stddev | .38 | .00002 | .00043 | .00074 | .00149 | .00032 | .00422 | .0175 | .00060 |
| %RSD | .32903 | 42.904 | 1.2681 | 220.98 | 5.0135 | 13.740 | 874.92 | .92284 | 124.44 |
| #1 | 115.81 | .00003 | .03398 | -.00086 | .02867 | -.00257 | -.00250 | 1.9108 | -.00091 |
| #2 | 115.27 | .00005 | .03459 | .00019 | .03078 | -.00212 | .00347 | 1.8860 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11317** | **.00014** | **-.00018** | **.00086** | **.04038** | **-.00026** | **.00396** | **.00091** |
| Stddev | .00105 | .00090 | .00002 | .00010 | .02469 | .00043 | .00013 | .00171 |
| %RSD | .92695 | 634.77 | 11.783 | 11.484 | 61.144 | 166.12 | 3.2363 | 187.22 |
| #1 | .11391 | .00078 | -.00020 | .00079 | .02292 | .00005 | .00387 | -.00030 |
| #2 | .11242 | -.00050 | -.00017 | .00093 | .05784 | -.00057 | .00405 | .00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6357.4** | **83417.** | **5747.5** |
| Stddev | 11.4 | 27. | 51.4 |
| %RSD | .17926 | .03184 | .89489 |
| #1 | 6365.5 | 83436. | 5711.1 |
| #2 | 6349.4 | 83398. | 5783.9 |

Sample Name: 280-41962-C-3-F MS Acquired: 5/14/2013 13:12:48 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05583** | **1.8206** | **1.0207** | **1.1898** | **2.5367** | **.04887** | **2.0327** | **52.376** | **.10345** |
| Stddev | .00048 | .0161 | .0017 | .0066 | .0027 | .00002 | .0111 | .070 | .00068 |
| %RSD | .85778 | .88344 | .16485 | .55529 | .10609 | .04965 | .54549 | .13372 | .65958 |
| #1 | .05617 | 1.8320 | 1.0219 | 1.1945 | 2.5386 | .04889 | 2.0406 | 52.425 | .10393 |
| #2 | .05550 | 1.8093 | 1.0195 | 1.1851 | 2.5348 | .04886 | 2.0249 | 52.326 | .10297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48786** | **.19564** | **.25066** | **1.8727** | **54.882** | **1.1360** | **50.421** | **.51305** | **.97034** |
| Stddev | .00330 | .00115 | .00078 | .0059 | .073 | .0044 | .046 | .00010 | .00656 |
| %RSD | .67702 | .58944 | .31118 | .31459 | .13336 | .38641 | .09141 | .01865 | .67630 |
| #1 | .49020 | .19646 | .25121 | 1.8769 | 54.933 | 1.1391 | 50.454 | .51311 | .97498 |
| #2 | .48553 | .19483 | .25011 | 1.8685 | 54.830 | 1.1329 | 50.388 | .51298 | .96570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **621.71** | **.48380** | **10.471** | **.48189** | **.11996** | **.50538** | **2.0185** | **19.955** | **1.9288** |
| Stddev | 2.13 | .00361 | .068 | .00430 | .00218 | .00297 | .0139 | .048 | .0147 |
| %RSD | .34184 | .74545 | .65199 | .89149 | 1.8203 | .58857 | .68906 | .24138 | .76472 |
| #1 | 623.21 | .48635 | 10.519 | .48493 | .11841 | .50748 | 2.0283 | 19.989 | 1.9393 |
| #2 | 620.21 | .48125 | 10.423 | .47885 | .12150 | .50328 | 2.0086 | 19.921 | 1.9184 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5358** | **1.0158** | **.99699** | **1.8269** | **2.0550** | **.50376** | **.52445** | **.48464** |
| Stddev | .0040 | .0000 | .00079 | .0094 | .0284 | .00053 | .00007 | .00005 |
| %RSD | .25739 | .00060 | .07944 | .51481 | 1.3806 | .10607 | .01304 | .01055 |
| #1 | 1.5386 | 1.0158 | .99643 | 1.8336 | 2.0350 | .50338 | .52450 | .48460 |
| #2 | 1.5330 | 1.0158 | .99755 | 1.8203 | 2.0751 | .50414 | .52440 | .48468 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6149.8** | **80403.** | **5606.1** |
| Stddev | 43.0 | 121. | 45.6 |
| %RSD | .69941 | .15103 | .81402 |
| #1 | 6119.4 | 80489. | 5573.8 |
| #2 | 6180.3 | 80317. | 5638.4 |

Sample Name: 280-41962-C-3-G MSD Acquired: 5/14/2013 13:15:39 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05435** | **1.8038** | **1.0036** | **1.1957** | **2.5022** | **.04770** | **2.0011** | **51.301** | **.10174** |
| Stddev | .00058 | .0052 | .0042 | .0033 | .0032 | .00048 | .0045 | .088 | .00018 |
| %RSD | 1.0721 | .28550 | .42005 | .27769 | .13005 | .99851 | .22314 | .17159 | .17777 |
| #1 | .05394 | 1.8001 | 1.0006 | 1.1934 | 2.5045 | .04804 | 1.9980 | 51.363 | .10161 |
| #2 | .05476 | 1.8074 | 1.0066 | 1.1981 | 2.4999 | .04737 | 2.0043 | 51.238 | .10187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48260** | **.19298** | **.24606** | **1.8613** | **53.347** | **1.0918** | **49.711** | **.50515** | **.97731** |
| Stddev | .00112 | .00013 | .00054 | .0090 | .012 | .0016 | .032 | .00048 | .00441 |
| %RSD | .23202 | .06490 | .22100 | .48176 | .02170 | .14923 | .06411 | .09473 | .45090 |
| #1 | .48180 | .19289 | .24568 | 1.8677 | 53.355 | 1.0929 | 49.688 | .50481 | .97420 |
| #2 | .48339 | .19307 | .24645 | 1.8550 | 53.339 | 1.0906 | 49.733 | .50549 | .98043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **616.94** | **.47733** | **10.301** | **.47759** | **.11781** | **.50479** | **1.9840** | **19.783** | **1.9433** |
| Stddev | 2.73 | .00137 | .024 | .00447 | .00165 | .00013 | .0101 | .016 | .0103 |
| %RSD | .44317 | .28648 | .23240 | .93591 | 1.4015 | .02637 | .50982 | .07979 | .52937 |
| #1 | 618.87 | .47637 | 10.284 | .47443 | .11898 | .50470 | 1.9769 | 19.794 | 1.9361 |
| #2 | 615.00 | .47830 | 10.318 | .48075 | .11664 | .50489 | 1.9912 | 19.772 | 1.9506 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5192** | **.99747** | **1.0005** | **1.8021** | **2.0248** | **.49671** | **.51715** | **.48318** |
| Stddev | .0073 | .00289 | .0031 | .0048 | .0264 | .00154 | .00133 | .00102 |
| %RSD | .48203 | .28997 | .31309 | .26436 | 1.3058 | .30906 | .25789 | .21205 |
| #1 | 1.5244 | .99542 | .99832 | 1.7987 | 2.0061 | .49562 | .51809 | .48390 |
| #2 | 1.5140 | .99951 | 1.0028 | 1.8054 | 2.0435 | .49779 | .51620 | .48245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6037.3** | **79100.** | **5724.0** |
| Stddev | 40.5 | 33. | 16.4 |
| %RSD | .67164 | .04197 | .28669 |
| #1 | 6066.0 | 79123. | 5712.4 |
| #2 | 6008.6 | 79076. | 5735.6 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 13:18:31 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00793** | **49.605** | **-.00224** | **.00248** | **.00076** | **-.00001** | **1.0094** | **-.00196** | **-.00084** | **.00214** | **-.00010** | **.00208** | **49.940** |
| Stddev | .00039 | .475 | .00183 | .00008 | .00007 | .00006 | .0017 | .00053 | .00006 | .00000 | .00004 | .00014 | .378 |
| %RSD | 4.8841 | .95802 | 81.374 | 3.2628 | 9.2626 | 672.54 | .16600 | 27.188 | 7.1933 | .05639 | 41.261 | 6.7988 | .75626 |
| #1 | .00766 | 49.269 | -.00095 | .00254 | .00071 | .00003 | 1.0106 | -.00158 | -.00080 | .00214 | -.00013 | .00218 | 49.673 |
| #2 | .00821 | 49.941 | -.00353 | .00243 | .00081 | -.00005 | 1.0083 | -.00234 | -.00088 | .00214 | -.00007 | .00198 | 50.207 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17135** | **.00366** | **-.01017** | **-.00064** | **-.00176** | **249.08** | **.00110** | **-.00086** | **-.00043** | **5.0841** | **.00019** | **.00081** | **.01454** |
| Stddev | .03146 | .00172 | .00224 | .00010 | .00006 | 1.40 | .00042 | .00074 | .00113 | .0120 | .00277 | .00009 | .00521 |
| %RSD | 18.363 | 46.841 | 21.994 | 14.951 | 3.4827 | .56235 | 38.635 | 86.554 | 264.18 | .23599 | 1466.3 | 11.095 | 35.823 |
| #1 | .14910 | .00245 | -.01175 | -.00071 | -.00172 | 248.09 | .00080 | -.00138 | .00037 | 5.0926 | -.00177 | .00074 | .01086 |
| #2 | .19360 | .00488 | -.00858 | -.00057 | -.00180 | 250.07 | .00140 | -.00033 | -.00123 | 5.0756 | .00215 | .00087 | .01822 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **.00023** | **5.0219** | **.00229** | **-.00119** | **10.034** | **.00003** | **.00312** | **-.03532** |
| Stddev | .00013 | .00004 | .0042 | .00003 | .00019 | .033 | .00040 | .00057 | .00078 |
| %RSD | 13.058 | 16.526 | .08314 | 1.3708 | 16.370 | .32568 | 1184.2 | 18.270 | 2.2202 |
| #1 | .00111 | .00026 | 5.0189 | .00227 | -.00105 | 10.057 | -.00025 | .00272 | -.03588 |
| #2 | .00092 | .00020 | 5.0248 | .00232 | -.00132 | 10.011 | .00032 | .00352 | -.03477 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6296.7** | **82736.** | **5838.6** |
| Stddev | 8.7 | 121. | 39.1 |
| %RSD | .13741 | .14564 | .66991 |
| #1 | 6302.8 | 82821. | 5866.3 |
| #2 | 6290.5 | 82651. | 5811.0 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 13:20:55 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50910** | **.49025** | **.99853** | **.49534** | **.49391** | **.48065** | **.00059** | **4.9580** | **.49828** | **.50195** | **.49250** | **.49546** | **2.4536** |
| Stddev | .00390 | .00156 | .00362 | .00000 | .00181 | .00211 | .00156 | .0314 | .00067 | .00053 | .00026 | .00277 | .0073 |
| %RSD | .76569 | .31825 | .36224 | .00072 | .36679 | .43954 | 265.09 | .63354 | .13486 | .10644 | .05255 | .55827 | .29769 |
| #1 | .51186 | .49135 | 1.0011 | .49534 | .49520 | .48214 | -.00052 | 4.9802 | .49781 | .50157 | .49232 | .49741 | 2.4587 |
| #2 | .50634 | .48915 | .99597 | .49534 | .49263 | .47915 | .00170 | 4.9358 | .49876 | .50233 | .49268 | .49350 | 2.4484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.713** | **.99692** | **20.573** | **.50786** | **.48739** | **5.0537** | **.50054** | **.97642** | **1.0020** | **-.00291** | **.99423** | **.98683** | **4.9391** |
| Stddev | .165 | .00278 | .080 | .00173 | .00085 | .0360 | .00113 | .00005 | .0024 | .00022 | .00418 | .00147 | .0101 |
| %RSD | .33166 | .27916 | .38911 | .34002 | .17383 | .71143 | .22485 | .00518 | .23419 | 7.6916 | .41992 | .14880 | .20358 |
| #1 | 49.830 | .99889 | 20.630 | .50908 | .48679 | 5.0791 | .49974 | .97639 | 1.0004 | -.00307 | .99128 | .98579 | 4.9319 |
| #2 | 49.596 | .99496 | 20.516 | .50664 | .48799 | 5.0283 | .50133 | .97646 | 1.0037 | -.00275 | .99718 | .98787 | 4.9462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98721** | **.48622** | **.00124** | **.49647** | **.98916** | **.02379** | **.49761** | **.51794** | **.48605** |
| Stddev | .00255 | .00270 | .00104 | .00240 | .00333 | .00621 | .00309 | .00301 | .00247 |
| %RSD | .25793 | .55586 | 84.270 | .48268 | .33657 | 26.100 | .62121 | .58101 | .50729 |
| #1 | .98540 | .48813 | .00197 | .49817 | .98681 | .01940 | .49979 | .52007 | .48431 |
| #2 | .98901 | .48431 | .00050 | .49478 | .99152 | .02818 | .49542 | .51581 | .48780 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6384.2** | **83826.** | **5827.1** |
| Stddev | 17.0 | 306. | 41.6 |
| %RSD | .26629 | .36531 | .71449 |
| #1 | 6396.2 | 83609. | 5797.7 |
| #2 | 6372.2 | 84042. | 5856.6 |

Sample Name: CCB Acquired: 5/14/2013 13:23:08 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00064** | **.00102** | **.00023** | **-.00031** | **.00034** | **.00011** | **-.00310** | **-.00336** | **.00003** | **.00044** | **-.00003** | **-.00024** |
| Stddev | .00010 | .00001 | .00055 | .00020 | .00015 | .00006 | .00198 | .00126 | .00002 | .00010 | .00004 | .00009 |
| %RSD | 15.001 | 1.2875 | 239.24 | 64.583 | 43.817 | 54.353 | 63.877 | 37.474 | 59.740 | 21.541 | 137.42 | 36.877 |
| #1 | -.00057 | .00101 | -.00016 | -.00045 | .00044 | .00015 | -.00450 | -.00247 | .00001 | .00051 | -.00000 | -.00017 |
| #2 | -.00070 | .00103 | .00062 | -.00017 | .00023 | .00007 | -.00170 | -.00425 | .00004 | .00038 | -.00006 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00307** | **.03989** | **.00028** | **.00361** | **.00010** | **.00012** | F **.11206** | **.00005** | **-.00485** | **-.00026** | **-.00100** | **-.00149** |
| Stddev | .00096 | .00011 | .00106 | .00288 | .00002 | .00001 | .00971 | .00006 | .00242 | .00120 | .00168 | .00121 |
| %RSD | 31.267 | .27346 | 384.95 | 79.922 | 24.649 | 5.8546 | 8.6623 | 116.90 | 49.845 | 463.38 | 168.44 | 81.456 |
| #1 | .00375 | .03981 | -.00048 | .00157 | .00008 | .00013 | .11893 | .00001 | -.00656 | .00059 | -.00219 | -.00063 |
| #2 | .00239 | .03996 | .00103 | .00565 | .00011 | .00012 | .10520 | .00009 | -.00314 | -.00111 | .00019 | -.00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | .10000 | | | | | |
| Low Limit | | | | | | | -.10000 | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.00933** | **.00029** | **.00015** | **-.00102** | **.00020** | **-.00124** | F **.05142** | **-.00047** | **.00220** | **-.00174** |
| Stddev | .00046 | .00303 | .00015 | .00009 | .00199 | .00032 | .00122 | .01537 | .00025 | .00030 | .00033 |
| %RSD | 89.940 | 32.427 | 50.705 | 59.132 | 196.36 | 159.84 | 97.736 | 29.901 | 53.496 | 13.527 | 18.947 |
| #1 | -.00084 | .00719 | .00019 | .00021 | .00039 | -.00003 | -.00038 | .04054 | -.00065 | .00241 | -.00151 |
| #2 | -.00019 | .01147 | .00039 | .00009 | -.00242 | .00043 | -.00210 | .06229 | -.00029 | .00199 | -.00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .05000 | | | |
| Low Limit | | | | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6353.2** | **84389.** | **5651.6** |
| Stddev | 10.7 | 896. | 4.1 |
| %RSD | .16894 | 1.0621 | .07257 |
| #1 | 6360.8 | 83755. | 5654.5 |
| #2 | 6345.6 | 85023. | 5648.7 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 13:25:36 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01082** | **.10062** | **.01478** | **.09624** | **.01067** | **.00102** | **.10694** | **.19903** | **.00528** | **.01104** | **.01030** |
| Stddev | .00017 | .00001 | .00115 | .00007 | .00004 | .00007 | .00195 | .00163 | .00012 | .00002 | .00005 |
| %RSD | 1.5747 | .01031 | 7.7814 | .06832 | .36942 | 7.0803 | 1.8235 | .81651 | 2.2558 | .18156 | .44522 |
| #1 | .01094 | .10062 | .01397 | .09619 | .01070 | .00097 | .10556 | .20018 | .00537 | .01102 | .01033 |
| #2 | .01070 | .10061 | .01559 | .09629 | .01064 | .00107 | .10831 | .19788 | .00520 | .01105 | .01027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01539** | **.10401** | **3.1741** | W **.01250** | **.21562** | **.01068** | **.01969** | **1.0907** | **.04167** | **2.9378** | **.00909** |
| Stddev | .00001 | .00335 | .0210 | .00047 | .00173 | .00005 | .00016 | .0019 | .00012 | .0011 | .00022 |
| %RSD | .04800 | 3.2205 | .66204 | 3.7514 | .80343 | .47007 | .80977 | .17619 | .28897 | .03646 | 2.3938 |
| #1 | .01539 | .10638 | 3.1592 | .01284 | .21439 | .01065 | .01958 | 1.0920 | .04159 | 2.9370 | .00894 |
| #2 | .01538 | .10165 | 3.1889 | .01217 | .21684 | .01072 | .01981 | 1.0893 | .04176 | 2.9385 | .00925 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **.00843** | **.01306** | **.52693** | **.10110** | **.01006** | **.01664** | **.00975** | **.01400** | F **.08022** | **.01005** |
| Stddev | .00095 | .00005 | .00177 | .01272 | .00048 | .00006 | .00112 | .00020 | .00109 | .03179 | .00070 |
| %RSD | 150.39 | .59183 | 13.585 | 2.4147 | .47820 | .62617 | 6.7477 | 2.0906 | 7.7932 | 39.628 | 6.9841 |
| #1 | .00004 | .00847 | .01431 | .53592 | .10076 | .01010 | .01743 | .00989 | .01323 | .05774 | .00955 |
| #2 | -.00130 | .00840 | .01180 | .51793 | .10145 | .01001 | .01585 | .00960 | .01477 | .10270 | .01054 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02394** | **.01433** |
| Stddev | .00012 | .00316 |
| %RSD | .51877 | 22.034 |
| #1 | .02403 | .01657 |
| #2 | .02385 | .01210 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6399.6** | **84303.** | **5714.6** |
| Stddev | 8.7 | 103. | 17.7 |
| %RSD | .13549 | .12205 | .30950 |
| #1 | 6405.7 | 84376. | 5702.1 |
| #2 | 6393.4 | 84231. | 5727.1 |

Sample Name: 280-41596-G-13-B Acquired: 5/14/2013 13:28:01 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 171982

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.00185** | **.00129** | **.17657** | **.32214** | **-.00006** | **-.00381** | **113.51** | **.00013** |
| Stddev | .00004 | .00024 | .00345 | .00064 | .00388 | .00003 | .00013 | 1.35 | .00019 |
| %RSD | 16.838 | 12.885 | 267.07 | .36165 | 1.2059 | 44.142 | 3.4050 | 1.1860 | 144.18 |
| #1 | -.00019 | .00168 | .00373 | .17611 | .32489 | -.00008 | -.00390 | 114.46 | .00027 |
| #2 | -.00024 | .00202 | -.00115 | .17702 | .31940 | -.00004 | -.00372 | 112.55 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **.00044** | **.00048** | **2.8306** | **3.7591** | **.00878** | **59.337** | **.76615** | **.00063** |
| Stddev | .00004 | .00011 | .00015 | .0231 | .0020 | .00012 | .035 | .00020 | .00017 |
| %RSD | 3.6806 | 26.177 | 30.170 | .81606 | .05209 | 1.3318 | .05875 | .02589 | 27.121 |
| #1 | .00106 | .00052 | .00059 | 2.8469 | 3.7605 | .00870 | 59.362 | .76629 | .00051 |
| #2 | .00100 | .00036 | .00038 | 2.8143 | 3.7577 | .00886 | 59.312 | .76601 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.827** | **.00135** | **.21039** | **-.00005** | **1.5276** | **.00039** | **-.00085** | **10.808** | **-.00021** |
| Stddev | .110 | .00017 | .00019 | .00029 | .0072 | .00224 | .00262 | .123 | .00013 |
| %RSD | .55285 | 12.490 | .08855 | 597.41 | .46788 | 577.40 | 308.94 | 1.1362 | 61.913 |
| #1 | 19.750 | .00147 | .21053 | -.00025 | 1.5225 | -.00120 | -.00270 | 10.895 | -.00012 |
| #2 | 19.905 | .00123 | .21026 | .00015 | 1.5326 | .00197 | .00101 | 10.721 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9763** | **.00033** | **.00043** | **-.00006** | **.00537** | **.00049** | **.00276** | **.00077** |
| Stddev | .0257 | .00243 | .00015 | .00011 | .05474 | .00009 | .00028 | .00109 |
| %RSD | 1.3002 | 737.64 | 33.779 | 203.09 | 1018.9 | 17.897 | 10.084 | 141.40 |
| #1 | 1.9944 | .00205 | .00053 | -.00013 | -.03334 | .00055 | .00256 | .00154 |
| #2 | 1.9581 | -.00139 | .00033 | .00002 | .04408 | .00043 | .00295 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6245.9** | **82405.** | **5720.4** |
| Stddev | 6.8 | 454. | 53.7 |
| %RSD | .10827 | .55080 | .93946 |
| #1 | 6241.1 | 82084. | 5682.4 |
| #2 | 6250.7 | 82726. | 5758.4 |

Sample Name: 280-41962-C-4-B Acquired: 5/14/2013 13:30:25 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **1.0761** | **-.00049** | **.22095** | **.46638** | **-.00000** | **-.00080** | **3.7283** | **.00011** |
| Stddev | .00015 | .0016 | .00288 | .00126 | .00064 | .00005 | .00198 | .0090 | .00002 |
| %RSD | 29.949 | .14822 | 583.83 | .56828 | .13625 | 1215.8 | 246.31 | .24182 | 17.935 |
| #1 | -.00060 | 1.0772 | .00154 | .22006 | .46593 | .00003 | .00060 | 3.7347 | .00012 |
| #2 | -.00039 | 1.0750 | -.00253 | .22183 | .46683 | -.00004 | -.00220 | 3.7220 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00192** | **.00302** | **1.4839** | **3.4864** | **.13444** | **.93863** | **.03327** | **.00068** |
| Stddev | .00002 | .00007 | .00024 | .0041 | .0016 | .00060 | .00566 | .00002 | .00021 |
| %RSD | 2.4206 | 3.5539 | 8.0233 | .27894 | .04637 | .44835 | .60334 | .06491 | 31.165 |
| #1 | .00080 | .00197 | .00285 | 1.4810 | 3.4853 | .13487 | .94264 | .03328 | .00053 |
| #2 | .00083 | .00187 | .00319 | 1.4868 | 3.4875 | .13402 | .93463 | .03325 | .00082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **601.99** | **.00158** | **.21942** | **.00098** | **.28789** | **-.00226** | **-.00140** | **10.928** | **.00001** |
| Stddev | 1.59 | .00029 | .00074 | .00091 | .00043 | .00355 | .00093 | .044 | .00014 |
| %RSD | .26482 | 18.633 | .33850 | 92.795 | .14857 | 157.01 | 67.003 | .40043 | 1305.3 |
| #1 | 600.86 | .00179 | .21889 | .00034 | .28759 | .00025 | -.00206 | 10.959 | .00011 |
| #2 | 603.11 | .00137 | .21994 | .00163 | .28820 | -.00477 | -.00073 | 10.897 | -.00009 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58505** | **.00011** | **.01747** | **.00039** | **.02584** | **.00245** | **.00843** | **.00097** |
| Stddev | .00067 | .00264 | .00041 | .00126 | .06540 | .00001 | .00031 | .00003 |
| %RSD | .11518 | 2297.9 | 2.3563 | 320.21 | 253.09 | .59335 | 3.7008 | 2.8949 |
| #1 | .58457 | -.00175 | .01776 | -.00050 | .07209 | .00244 | .00865 | .00095 |
| #2 | .58552 | .00198 | .01718 | .00128 | -.02041 | .00246 | .00821 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6139.4** | **79384.** | **5753.5** |
| Stddev | 18.7 | 189. | 26.3 |
| %RSD | .30517 | .23840 | .45750 |
| #1 | 6126.2 | 79250. | 5734.9 |
| #2 | 6152.7 | 79518. | 5772.1 |

Sample Name: 280-41962-C-5-B Acquired: 5/14/2013 13:33:30 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.99294** | **-.00050** | **.21589** | **.46062** | **.00012** | **-.00274** | **3.6141** | **-.00003** |
| Stddev | .00004 | .00178 | .00070 | .00073 | .00030 | .00002 | .00300 | .0018 | .00002 |
| %RSD | 39.363 | .17929 | 139.41 | .33813 | .06550 | 16.227 | 109.19 | .05006 | 64.291 |
| #1 | .00007 | .99420 | -.00100 | .21640 | .46041 | .00011 | -.00486 | 3.6128 | -.00005 |
| #2 | .00012 | .99168 | -.00001 | .21537 | .46083 | .00013 | -.00063 | 3.6154 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **.00192** | **.00232** | **1.4481** | **3.5894** | **.13370** | **.89997** | **.03290** | **.00050** |
| Stddev | .00011 | .00009 | .00012 | .0033 | .0162 | .00146 | .00132 | .00002 | .00008 |
| %RSD | 12.607 | 4.5065 | 5.2462 | .22798 | .45043 | 1.0900 | .14661 | .06624 | 16.618 |
| #1 | .00099 | .00186 | .00223 | 1.4457 | 3.6008 | .13473 | .90091 | .03289 | .00056 |
| #2 | .00083 | .00198 | .00240 | 1.4504 | 3.5780 | .13267 | .89904 | .03292 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **598.23** | **.00131** | **.21053** | **.00223** | **.28366** | **-.00008** | W **-.00840** | **10.684** | **-.00001** |
| Stddev | 2.67 | .00016 | .00114 | .00097 | .00542 | .00024 | .00211 | .005 | .00042 |
| %RSD | .44647 | 12.042 | .54310 | 43.640 | 1.9093 | 311.68 | 25.154 | .04719 | 3895.7 |
| #1 | 596.34 | .00142 | .21134 | .00154 | .28749 | -.00025 | -.00691 | 10.680 | .00028 |
| #2 | 600.12 | .00120 | .20973 | .00292 | .27983 | .00009 | -.00990 | 10.687 | -.00031 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | 5.0000 | | |
| Low Limit | 10.000 | | | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57545** | **.00006** | **.01618** | **.00061** | **.03854** | **.00260** | **.00791** | **.00134** |
| Stddev | .00063 | .00114 | .00023 | .00034 | .00248 | .00013 | .00033 | .00192 |
| %RSD | .10876 | 1754.3 | 1.4197 | 55.538 | 6.4341 | 4.9661 | 4.2046 | 143.45 |
| #1 | .57501 | -.00074 | .01602 | .00037 | .03679 | .00251 | .00768 | -.00002 |
| #2 | .57589 | .00087 | .01634 | .00084 | .04030 | .00269 | .00815 | .00269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6073.3** | **80043.** | **5682.9** |
| Stddev | 16.9 | 13. | 6.2 |
| %RSD | .27903 | .01591 | .10948 |
| #1 | 6085.3 | 80052. | 5687.3 |
| #2 | 6061.3 | 80034. | 5678.5 |

Sample Name: 280-41962-C-6-B Acquired: 5/14/2013 13:36:34 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00115** | **2.3624** | **.00147** | **.15200** | **.13748** | **.00005** | **-.00272** | **26.894** | **.00002** |
| Stddev | .00025 | .0143 | .00403 | .00123 | .00041 | .00007 | .00223 | .105 | .00007 |
| %RSD | 21.703 | .60566 | 274.68 | .80708 | .29698 | 151.18 | 82.036 | .38950 | 344.06 |
| #1 | -.00133 | 2.3523 | -.00138 | .15114 | .13777 | -.00000 | -.00430 | 26.969 | .00007 |
| #2 | -.00098 | 2.3726 | .00432 | .15287 | .13719 | .00010 | -.00114 | 26.820 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **.00263** | **.00490** | **2.0182** | **4.9091** | **.08335** | **10.041** | **.05784** | **.00469** |
| Stddev | .00017 | .00010 | .00034 | .0039 | .0196 | .00073 | .054 | .00021 | .00002 |
| %RSD | 11.594 | 3.8523 | 6.9372 | .19444 | .39915 | .87373 | .53574 | .36569 | .38644 |
| #1 | .00134 | .00256 | .00466 | 2.0210 | 4.9230 | .08283 | 10.079 | .05799 | .00467 |
| #2 | .00158 | .00270 | .00514 | 2.0154 | 4.8953 | .08386 | 10.003 | .05769 | .00470 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **529.78** | **.00212** | **.36552** | **.00315** | **1.7732** | **-.00029** | **-.00060** | **13.050** | **.00012** |
| Stddev | .68 | .00024 | .00017 | .00164 | .0090 | .00202 | .00280 | .040 | .00020 |
| %RSD | .12911 | 11.422 | .04705 | 52.153 | .50653 | 700.76 | 470.48 | .31027 | 160.53 |
| #1 | 530.26 | .00195 | .36564 | .00199 | 1.7668 | -.00172 | -.00258 | 13.079 | .00026 |
| #2 | 529.29 | .00229 | .36540 | .00431 | 1.7795 | .00114 | .00139 | 13.021 | -.00002 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57670** | **.00017** | **.02527** | **.00037** | **.05659** | **.00682** | **.00924** | **.00192** |
| Stddev | .00281 | .00057 | .00003 | .00031 | .01621 | .00002 | .00036 | .00013 |
| %RSD | .48692 | 328.94 | .11384 | 82.283 | 28.641 | .27875 | 3.9427 | 6.6185 |
| #1 | .57869 | -.00023 | .02525 | .00059 | .06805 | .00683 | .00949 | .00201 |
| #2 | .57472 | .00057 | .02529 | .00016 | .04513 | .00681 | .00898 | .00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6152.0** | **80072.** | **5627.6** |
| Stddev | 12.1 | 306. | 23.5 |
| %RSD | .19692 | .38159 | .41847 |
| #1 | 6160.6 | 79856. | 5610.9 |
| #2 | 6143.4 | 80288. | 5644.2 |

Sample Name: 280-41962-C-7-B Acquired: 5/14/2013 13:39:37 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173472 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.01505** | **-.00220** | **.01918** | **.13998** | **-.00012** | **-.00303** | **220.70** | **.00007** |
| Stddev | .00008 | .00030 | .00077 | .00002 | .00070 | .00007 | .00104 | 1.05 | .00000 |
| %RSD | 23.470 | 2.0161 | 35.031 | .12766 | .50159 | 54.716 | 34.431 | .47478 | 6.4947 |
| #1 | -.00028 | .01526 | -.00165 | .01916 | .13949 | -.00007 | -.00376 | 219.96 | .00007 |
| #2 | -.00039 | .01483 | -.00274 | .01919 | .14048 | -.00017 | -.00229 | 221.44 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00018** | **.00099** | **.39792** | **1.6112** | **.00899** | **52.414** | **.01416** | **.00086** |
| Stddev | .00011 | .00011 | .00003 | .00311 | .0475 | .00261 | .131 | .00005 | .00028 |
| %RSD | 18.577 | 58.896 | 3.3831 | .78268 | 2.9470 | 29.088 | .24924 | .34328 | 32.366 |
| #1 | .00052 | .00011 | .00097 | .40012 | 1.5776 | .00714 | 52.322 | .01419 | .00066 |
| #2 | .00068 | .00026 | .00102 | .39572 | 1.6447 | .01083 | 52.507 | .01413 | .00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **74.967** | **.00061** | **.16085** | **.00166** | **8.4410** | **-.00207** | **.00257** | **7.0134** | **-.00085** |
| Stddev | .446 | .00040 | .00407 | .00122 | .0195 | .00098 | .00000 | .0101 | .00046 |
| %RSD | .59515 | 66.304 | 2.5272 | 73.422 | .23126 | 47.380 | .15620 | .14375 | 54.680 |
| #1 | 75.283 | .00089 | .16372 | .00080 | 8.4272 | -.00138 | .00256 | 7.0063 | -.00052 |
| #2 | 74.652 | .00032 | .15798 | .00251 | 8.4548 | -.00276 | .00257 | 7.0206 | -.00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2350** | **-.00026** | **.00098** | **.00119** | **.01732** | **.00081** | **.01210** | **-.00061** |
| Stddev | .0072 | .00208 | .00027 | .00072 | .02937 | .00054 | .00014 | .00033 |
| %RSD | .22279 | 796.89 | 27.089 | 60.839 | 169.62 | 66.726 | 1.1787 | 54.262 |
| #1 | 3.2299 | .00121 | .00079 | .00170 | -.00345 | .00119 | .01220 | -.00038 |
| #2 | 3.2401 | -.00174 | .00117 | .00068 | .03809 | .00043 | .01200 | -.00085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6048.4** | **80110.** | **5674.7** |
| Stddev | .5 | 59. | 54.5 |
| %RSD | .00841 | .07350 | .96017 |
| #1 | 6048.1 | 80068. | 5713.2 |
| #2 | 6048.8 | 80151. | 5636.2 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 13:42:02 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00835** | **49.914** | **-.00193** | **-.00149** | **.00062** | **.00003** | **1.0067** | **.00953** | **-.00083** | **.00242** | **-.00004** | **.00136** | **49.884** |
| Stddev | .00028 | .140 | .00314 | .00017 | .00016 | .00005 | .0026 | .00878 | .00017 | .00001 | .00008 | .00008 | .022 |
| %RSD | 3.3272 | .28116 | 162.47 | 11.531 | 26.421 | 194.94 | .25461 | 92.126 | 20.842 | .52426 | 176.05 | 5.6209 | .04324 |
| #1 | .00855 | 49.815 | .00029 | -.00137 | .00074 | .00006 | 1.0085 | .01573 | -.00070 | .00242 | .00001 | .00142 | 49.869 |
| #2 | .00816 | 50.013 | -.00415 | -.00161 | .00051 | -.00001 | 1.0049 | .00332 | -.00095 | .00241 | -.00010 | .00131 | 49.900 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13529** | **.00265** | **-.01069** | **-.00066** | **-.00179** | **251.20** | **.00124** | **-.00048** | **-.00010** | **5.0859** | **-.00051** | **.00099** | **.01018** |
| Stddev | .00996 | .00242 | .00118 | .00011 | .00018 | .11 | .00010 | .00276 | .00356 | .0048 | .00069 | .00007 | .00202 |
| %RSD | 7.3620 | 91.313 | 10.996 | 17.180 | 9.8075 | .04264 | 8.1058 | 577.57 | 3478.1 | .09510 | 135.50 | 7.4484 | 19.834 |
| #1 | .12824 | .00435 | -.00986 | -.00058 | -.00192 | 251.28 | .00117 | -.00243 | .00242 | 5.0825 | -.00099 | .00094 | .00875 |
| #2 | .14233 | .00094 | -.01152 | -.00074 | -.00167 | 251.12 | .00131 | .00147 | -.00262 | 5.0893 | -.00002 | .00105 | .01161 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00034** | **5.0307** | **.00223** | **-.00149** | **10.003** | **-.00017** | **.00320** | **-.03776** |
| Stddev | .00037 | .00009 | .0153 | .00031 | .00084 | .010 | .00022 | .00012 | .00246 |
| %RSD | 356.73 | 27.554 | .30392 | 13.748 | 56.782 | .09599 | 127.50 | 3.6515 | 6.5250 |
| #1 | -.00016 | .00040 | 5.0199 | .00245 | -.00209 | 10.010 | -.00033 | .00328 | -.03602 |
| #2 | .00036 | .00027 | 5.0415 | .00201 | -.00089 | 9.9964 | -.00002 | .00311 | -.03950 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6215.9** | **81299.** | **5595.8** |
| Stddev | 2.1 | 185. | 10.9 |
| %RSD | .03384 | .22765 | .19532 |
| #1 | 6214.4 | 81169. | 5603.6 |
| #2 | 6217.4 | 81430. | 5588.1 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 13:44:25 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51396** | **.47952** | **1.0004** | **.49284** | **.50012** | **.48784** | **-.00240** | **5.0237** | **.50022** | **.50303** | **.49196** | **.49695** | **2.4720** |
| Stddev | .00102 | .00044 | .0016 | .00016 | .00165 | .00213 | .00145 | .0027 | .00060 | .00098 | .00105 | .00238 | .0001 |
| %RSD | .19913 | .09120 | .16336 | .03216 | .32959 | .43737 | 60.479 | .05431 | .11956 | .19444 | .21411 | .47884 | .00497 |
| #1 | .51468 | .47983 | .99920 | .49273 | .49895 | .48633 | -.00342 | 5.0256 | .50064 | .50372 | .49270 | .49863 | 2.4719 |
| #2 | .51323 | .47921 | 1.0015 | .49295 | .50128 | .48935 | -.00137 | 5.0218 | .49980 | .50234 | .49122 | .49527 | 2.4721 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.645** | **1.0225** | **20.621** | **.50957** | **.48681** | **5.1442** | **.49999** | **.97756** | **1.0019** | **-.00256** | **.99815** | **.99501** | **5.0029** |
| Stddev | .028 | .0025 | .103 | .00249 | .00105 | .0136 | .00039 | .00193 | .0032 | .00246 | .00105 | .00425 | .0264 |
| %RSD | .05517 | .24157 | .49761 | .48924 | .21479 | .26464 | .07806 | .19694 | .32284 | 96.431 | .10557 | .42664 | .52723 |
| #1 | 50.625 | 1.0208 | 20.694 | .51134 | .48755 | 5.1346 | .50026 | .97620 | .99965 | -.00081 | .99890 | .99201 | 5.0216 |
| #2 | 50.665 | 1.0243 | 20.549 | .50781 | .48607 | 5.1539 | .49971 | .97892 | 1.0042 | -.00430 | .99741 | .99802 | 4.9843 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98349** | **.48998** | **.00086** | **.49873** | **.98319** | **.00422** | **.49929** | **.51978** | **.49061** |
| Stddev | .00040 | .00045 | .00109 | .00135 | .00267 | .00028 | .00348 | .00113 | .00346 |
| %RSD | .04043 | .09116 | 126.16 | .27039 | .27196 | 6.7133 | .69663 | .21651 | .70623 |
| #1 | .98320 | .48966 | .00009 | .49969 | .98130 | .00442 | .50175 | .52057 | .49306 |
| #2 | .98377 | .49029 | .00163 | .49778 | .98508 | .00402 | .49683 | .51898 | .48816 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6342.2** | **83141.** | **5670.2** |
| Stddev | 2.3 | 411. | 26.2 |
| %RSD | .03548 | .49398 | .46129 |
| #1 | 6340.7 | 82851. | 5688.7 |
| #2 | 6343.8 | 83431. | 5651.7 |

Sample Name: CCB Acquired: 5/14/2013 13:46:39 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **-.00032** | **.00061** | F **-.00327** | **.00043** | **.00003** | **-.00081** | **-.00378** | **.00009** | **.00036** | **-.00011** |
| Stddev | .00009 | .00047 | .00122 | .00092 | .00019 | .00009 | .00056 | .00151 | .00003 | .00008 | .00002 |
| %RSD | 41.712 | 148.01 | 200.71 | 28.187 | 43.280 | 290.89 | 68.973 | 40.082 | 37.033 | 22.093 | 22.237 |
| #1 | -.00027 | .00001 | -.00025 | -.00392 | .00030 | -.00003 | -.00121 | -.00271 | .00011 | .00042 | -.00009 |
| #2 | -.00015 | -.00066 | .00147 | -.00262 | .00056 | .00010 | -.00042 | -.00485 | .00007 | .00031 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00520** | **.03133** | **.00102** | **.00033** | **.00004** | **.00006** | F **.12882** | **-.00022** | **-.00605** | **-.00049** |
| Stddev | .00006 | .00030 | .01289 | .00223 | .00050 | .00005 | .00006 | .00071 | .00029 | .00117 | .00139 |
| %RSD | 50.248 | 5.6719 | 41.128 | 217.24 | 153.13 | 140.61 | 107.50 | .54934 | 130.37 | 19.396 | 281.75 |
| #1 | .00008 | .00541 | .02222 | -.00055 | .00068 | .00000 | .00010 | .12932 | -.00002 | -.00522 | -.00148 |
| #2 | .00017 | .00499 | .04044 | .00260 | -.00003 | .00008 | .00001 | .12832 | -.00043 | -.00688 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00471** | **-.00005** | **-.00307** | **.00887** | **.00014** | **.00004** | **-.00249** | **-.00011** | **-.00047** | F **.05260** | **-.00019** |
| Stddev | .00007 | .00021 | .00165 | .00022 | .00062 | .00008 | .00092 | .00004 | .00076 | .00177 | .00044 |
| %RSD | 1.5683 | 425.51 | 53.604 | 2.5027 | 428.01 | 189.89 | 37.014 | 32.265 | 161.72 | 3.3655 | 232.88 |
| #1 | -.00476 | .00010 | -.00424 | .00871 | .00058 | -.00001 | -.00184 | -.00009 | .00007 | .05135 | -.00051 |
| #2 | -.00465 | -.00020 | -.00191 | .00903 | -.00029 | .00009 | -.00314 | -.00014 | -.00101 | .05385 | .00012 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | | .05000 | |
| Low Limit | | | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00230** | **.00003** |
| Stddev | .00028 | .00246 |
| %RSD | 12.107 | 8202.4 |
| #1 | .00211 | .00177 |
| #2 | .00250 | -.00171 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6371.3** | **84145.** | **5741.2** |
| Stddev | 14.7 | 199. | 28.1 |
| %RSD | .23088 | .23644 | .48912 |
| #1 | 6381.7 | 84004. | 5721.3 |
| #2 | 6360.9 | 84285. | 5761.0 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 13:49:07 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01009** | **.09904** | **.01531** | **.09331** | **.01067** | **.00093** | **.10466** | **.19823** | **.00511** | **.01082** | **.01015** |
| Stddev | .00053 | .00118 | .00140 | .00001 | .00016 | .00005 | .00175 | .00163 | .00023 | .00011 | .00016 |
| %RSD | 5.2163 | 1.1949 | 9.1252 | .01362 | 1.4533 | 5.3596 | 1.6750 | .82076 | 4.5042 | 1.0066 | 1.5428 |
| #1 | .01046 | .09988 | .01432 | .09332 | .01056 | .00090 | .10342 | .19708 | .00527 | .01090 | .01026 |
| #2 | .00972 | .09821 | .01630 | .09330 | .01078 | .00097 | .10589 | .19938 | .00494 | .01075 | .01004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01432** | **.09934** | **3.1376** | W **.01205** | **.21218** | **.01055** | **.01940** | **1.1121** | **.04128** | **2.9028** | **.00997** |
| Stddev | .00027 | .00151 | .0305 | .00146 | .00076 | .00002 | .00005 | .0011 | .00030 | .0109 | .00147 |
| %RSD | 1.8670 | 1.5198 | .97295 | 12.119 | .35726 | .16827 | .26876 | .10166 | .71664 | .37551 | 14.691 |
| #1 | .01413 | .10040 | 3.1592 | .01308 | .21272 | .01056 | .01944 | 1.1129 | .04149 | 2.8951 | .01101 |
| #2 | .01451 | .09827 | 3.1160 | .01102 | .21165 | .01054 | .01936 | 1.1113 | .04107 | 2.9105 | .00894 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00162** | **.00874** | **.01630** | **.51142** | **.09972** | **.01008** | **.01608** | **.00982** | **.01478** | F **.09361** | **.00967** |
| Stddev | .00217 | .00222 | .00270 | .00587 | .00074 | .00008 | .00113 | .00021 | .00088 | .00616 | .00035 |
| %RSD | 134.10 | 25.391 | 16.592 | 1.1482 | .74644 | .77199 | 7.0123 | 2.1296 | 5.9267 | 6.5834 | 3.6080 |
| #1 | -.00315 | .00717 | .01439 | .50727 | .10025 | .01013 | .01688 | .00968 | .01540 | .08925 | .00943 |
| #2 | -.00008 | .01031 | .01822 | .51557 | .09920 | .01002 | .01528 | .00997 | .01416 | .09797 | .00992 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02457** | **.01223** |
| Stddev | .00010 | .00150 |
| %RSD | .40506 | 12.278 |
| #1 | .02464 | .01329 |
| #2 | .02449 | .01117 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6411.7** | **84179.** | **5786.6** |
| Stddev | 6.5 | 273. | 10.0 |
| %RSD | .10123 | .32457 | .17222 |
| #1 | 6416.3 | 84372. | 5793.6 |
| #2 | 6407.1 | 83986. | 5779.5 |

Sample Name: MB 280-173603/1-B Acquired: 5/14/2013 13:51:31 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.00304** | **-.00161** | F **-.00382** | **.00044** | **.00001** | **.00006** | **.01333** | **-.00012** |
| Stddev | .00083 | .00015 | .00176 | .00040 | .00014 | .00007 | .00021 | .00102 | .00002 |
| %RSD | 142.98 | 5.0903 | 109.27 | 10.519 | 32.320 | 1271.0 | 323.54 | 7.6345 | 16.764 |
| #1 | -.00116 | .00315 | -.00286 | -.00353 | .00034 | .00005 | .00021 | .01261 | -.00013 |
| #2 | .00001 | .00293 | -.00037 | -.00410 | .00054 | -.00004 | -.00008 | .01405 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | | | | | |
| Low Limit | | | | -.00343 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00005** | **.00037** | W **.03451** | **-.00474** | **.00050** | **.00143** | W **.00032** | **-.00018** |
| Stddev | .00027 | .00015 | .00001 | .00251 | .07099 | .00048 | .00021 | .00002 | .00012 |
| %RSD | 221.05 | 311.24 | 3.3767 | 7.2764 | 1497.6 | 96.387 | 14.314 | 6.3095 | 66.898 |
| #1 | -.00007 | .00015 | .00037 | .03273 | .04545 | .00016 | .00129 | .00030 | -.00026 |
| #2 | .00032 | -.00006 | .00036 | .03628 | -.05494 | .00084 | .00158 | .00033 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | .02200 | | | | .00025 | |
| Low Limit | | | | -.02200 | | | | -.00025 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06950** | **-.00007** | F **.17532** | **-.00087** | **.00256** | **-.00138** | **.00170** | W **.03713** | **-.00060** |
| Stddev | .01414 | .00030 | .00273 | .00015 | .00202 | .00173 | .00053 | .00407 | .00028 |
| %RSD | 20.340 | 405.51 | 1.5567 | 16.660 | 78.923 | 125.46 | 31.378 | 10.949 | 47.328 |
| #1 | .07950 | .00014 | .17725 | -.00098 | .00399 | -.00260 | .00132 | .04000 | -.00080 |
| #2 | .05951 | -.00028 | .17339 | -.00077 | .00113 | -.00016 | .00208 | .03425 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .02970 | | | | | .03470 | |
| Low Limit | | | -.02970 | | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00064** | **.00024** | **-.00110** | W **-.01641** | **.00004** | **.00410** | **-.00030** |
| Stddev | .00020 | .00087 | .00034 | .00014 | .00199 | .00052 | .00047 | .00093 |
| %RSD | 237.10 | 136.55 | 139.77 | 12.810 | 12.110 | 1431.8 | 11.581 | 308.58 |
| #1 | .00023 | .00002 | .00048 | -.00100 | -.01782 | .00041 | .00443 | -.00096 |
| #2 | -.00006 | .00126 | .00000 | -.00120 | -.01501 | -.00033 | .00376 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01610 | | | |
| Low Limit | | | | | -.01610 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6509.3** | **82327.** | **5882.5** |
| Stddev | 31.0 | 2164. | .2 |
| %RSD | .47672 | 2.6289 | .00391 |
| #1 | 6487.4 | 80797. | 5882.7 |
| #2 | 6531.3 | 83858. | 5882.4 |

Sample Name: LCS 280-173603/2-B Acquired: 5/14/2013 13:54:00 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05624** | **1.8800** | **1.0292** | **1.0296** | **2.0331** | **.04956** | **2.0957** | **49.992** | **.10553** |
| Stddev | .00018 | .0071 | .0065 | .0020 | .0208 | .00038 | .0088 | .323 | .00012 |
| %RSD | .31749 | .37727 | .62729 | .19684 | 1.0246 | .77411 | .42077 | .64697 | .11309 |
| #1 | .05612 | 1.8850 | 1.0338 | 1.0310 | 2.0478 | .04984 | 2.1020 | 50.220 | .10562 |
| #2 | .05637 | 1.8750 | 1.0246 | 1.0282 | 2.0184 | .04929 | 2.0895 | 49.763 | .10545 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50551** | **.20126** | **.25687** | **1.0136** | **51.414** | **1.0258** | **53.149** | **.51972** | **.99509** |
| Stddev | .00085 | .00011 | .00030 | .0118 | .482 | .0097 | .039 | .00108 | .00253 |
| %RSD | .16891 | .05485 | .11680 | 1.1639 | .93725 | .94067 | .07400 | .20696 | .25379 |
| #1 | .50611 | .20134 | .25708 | 1.0219 | 51.755 | 1.0326 | 53.177 | .51896 | .99688 |
| #2 | .50490 | .20118 | .25666 | 1.0052 | 51.073 | 1.0190 | 53.121 | .52048 | .99331 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.775** | **.50135** | **10.496** | **.50554** | **-.00571** | **.51522** | **2.0586** | **10.247** | **1.9939** |
| Stddev | .190 | .00197 | .021 | .00137 | .00085 | .00169 | .0048 | .132 | .0070 |
| %RSD | .36626 | .39314 | .19820 | .27122 | 14.907 | .32730 | .23535 | 1.2836 | .35357 |
| #1 | 51.909 | .50275 | 10.511 | .50457 | -.00511 | .51641 | 2.0620 | 10.340 | 1.9989 |
| #2 | 51.641 | .49996 | 10.481 | .50651 | -.00632 | .51403 | 2.0552 | 10.154 | 1.9890 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99060** | **1.0368** | **1.0240** | **1.9859** | **2.1142** | **.51862** | **.53740** | **.48486** |
| Stddev | .00940 | .0007 | .0036 | .0035 | .0167 | .00053 | .00144 | .00713 |
| %RSD | .94897 | .07137 | .35310 | .17702 | .78902 | .10295 | .26818 | 1.4704 |
| #1 | .99725 | 1.0373 | 1.0214 | 1.9884 | 2.1024 | .51900 | .53842 | .48990 |
| #2 | .98395 | 1.0362 | 1.0266 | 1.9834 | 2.1260 | .51824 | .53638 | .47982 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6291.6** | **81720.** | **5745.9** |
| Stddev | 16.5 | 158. | 8.1 |
| %RSD | .26259 | .19317 | .14111 |
| #1 | 6279.9 | 81832. | 5740.2 |
| #2 | 6303.3 | 81609. | 5751.6 |

Sample Name: 280-41962-D-1-B Acquired: 5/14/2013 13:56:13 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00075** | **.08314** | **-.00306** | **.01541** | **.14941** | **-.00005** | **-.00488** | **220.84** | **.00013** |
| Stddev | .00006 | .00038 | .00095 | .00085 | .00107 | .00006 | .00111 | 1.36 | .00011 |
| %RSD | 7.6013 | .46005 | 31.189 | 5.5305 | .71670 | 119.06 | 22.731 | .61607 | 85.735 |
| #1 | -.00071 | .08287 | -.00238 | .01601 | .15017 | -.00001 | -.00409 | 221.80 | .00021 |
| #2 | -.00080 | .08341 | -.00373 | .01480 | .14865 | -.00009 | -.00566 | 219.87 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00120** | **.00028** | **.00075** | **.89188** | **1.4714** | **.00596** | **54.449** | **.04870** | **.00135** |
| Stddev | .00014 | .00004 | .00002 | .00196 | .0201 | .00057 | .039 | .00003 | .00039 |
| %RSD | 11.761 | 13.947 | 2.4786 | .21931 | 1.3639 | 9.5674 | .07225 | .06846 | 28.796 |
| #1 | .00110 | .00026 | .00077 | .89326 | 1.4573 | .00637 | 54.477 | .04867 | .00108 |
| #2 | .00130 | .00031 | .00074 | .89049 | 1.4856 | .00556 | 54.421 | .04872 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **77.986** | **.00079** | **.23208** | **.00126** | **8.2893** | **.00092** | **-.00136** | **6.6890** | **-.00060** |
| Stddev | .121 | .00014 | .00261 | .00051 | .0073 | .00037 | .00040 | .0005 | .00061 |
| %RSD | .15522 | 17.412 | 1.1226 | 40.257 | .08765 | 39.999 | 29.737 | .00757 | 101.13 |
| #1 | 78.072 | .00088 | .23023 | .00162 | 8.2842 | .00118 | -.00107 | 6.6894 | -.00017 |
| #2 | 77.901 | .00069 | .23392 | .00090 | 8.2945 | .00066 | -.00164 | 6.6886 | -.00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3609** | **-.00015** | **.00176** | **-.00041** | **.01072** | **.00191** | **.01879** | **.00066** |
| Stddev | .0307 | .00017 | .00008 | .00107 | .02944 | .00046 | .00067 | .00061 |
| %RSD | .91213 | 112.11 | 4.4028 | 263.17 | 274.62 | 24.374 | 3.5423 | 92.536 |
| #1 | 3.3825 | -.00003 | .00181 | -.00116 | -.01010 | .00224 | .01926 | .00023 |
| #2 | 3.3392 | -.00027 | .00170 | .00035 | .03154 | .00158 | .01832 | .00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6143.0** | **81915.** | **5803.1** |
| Stddev | 20.8 | 122. | 54.0 |
| %RSD | .33937 | .14916 | .93016 |
| #1 | 6157.7 | 81828. | 5764.9 |
| #2 | 6128.2 | 82001. | 5841.2 |

Sample Name: 280-41962-D-2-B Acquired: 5/14/2013 13:58:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.00784** | **-.00278** | **.01322** | **.08122** | **-.00007** | **-.00130** | **105.51** | **.00000** |
| Stddev | .00046 | .00036 | .00104 | .00016 | .00050 | .00015 | .00389 | .62 | .00000 |
| %RSD | 22677. | 4.5352 | 37.406 | 1.2265 | .61367 | 234.70 | 299.32 | .58679 | 97.767 |
| #1 | -.00032 | .00759 | -.00351 | .01333 | .08086 | .00004 | -.00405 | 105.07 | .00000 |
| #2 | .00033 | .00810 | -.00204 | .01310 | .08157 | -.00017 | .00145 | 105.94 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00034** | **.00021** | **.24679** | **1.1954** | **.00266** | **28.245** | **.11782** | **-.00007** |
| Stddev | .00039 | .00030 | .00026 | .00052 | .0193 | .00090 | .076 | .00025 | .00002 |
| %RSD | 123.42 | 85.973 | 123.79 | .21207 | 1.6122 | 33.731 | .26765 | .21032 | 33.616 |
| #1 | .00059 | .00014 | .00040 | .24642 | 1.2090 | .00330 | 28.299 | .11800 | -.00005 |
| #2 | .00004 | .00055 | .00003 | .24716 | 1.1817 | .00203 | 28.192 | .11765 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.147** | **.00034** | **.19463** | **-.00029** | **17.558** | **-.00117** | **-.00063** | **5.6862** | **-.00028** |
| Stddev | .342 | .00014 | .00266 | .00014 | .007 | .00105 | .00101 | .0142 | .00004 |
| %RSD | .74049 | 40.894 | 1.3680 | 50.690 | .04146 | 89.111 | 161.65 | .24935 | 13.368 |
| #1 | 46.389 | .00024 | .19651 | -.00018 | 17.553 | -.00191 | -.00134 | 5.6762 | -.00025 |
| #2 | 45.905 | .00044 | .19274 | -.00039 | 17.563 | -.00043 | .00009 | 5.6963 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8389** | **-.00093** | **.00051** | **.00073** | **-.00438** | **.00034** | **.01517** | **.00071** |
| Stddev | .0075 | .00186 | .00002 | .00071 | .03636 | .00020 | .00015 | .00062 |
| %RSD | .40811 | 200.50 | 3.4404 | 96.314 | 830.94 | 56.920 | 1.0196 | 87.054 |
| #1 | 1.8335 | -.00225 | .00050 | .00023 | -.03009 | .00048 | .01506 | .00114 |
| #2 | 1.8442 | .00039 | .00053 | .00123 | .02133 | .00021 | .01528 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6267.6** | **82690.** | **5752.5** |
| Stddev | 15.4 | 441. | 5.2 |
| %RSD | .24583 | .53383 | .09103 |
| #1 | 6256.7 | 82378. | 5748.8 |
| #2 | 6278.5 | 83002. | 5756.2 |

Sample Name: 280-41962-C-3-I Acquired: 5/14/2013 14:01:02 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.02175** | **-.00168** | **.19942** | **.53862** | **.00001** | **.00013** | **3.0109** | **-.00007** |
| Stddev | .00001 | .00032 | .00006 | .00061 | .00015 | .00005 | .00002 | .0083 | .00029 |
| %RSD | 5.4535 | 1.4666 | 3.4773 | .30746 | .02697 | 571.04 | 11.489 | .27644 | 402.25 |
| #1 | -.00024 | .02152 | -.00164 | .19899 | .53872 | .00004 | .00012 | 3.0168 | -.00028 |
| #2 | -.00026 | .02198 | -.00172 | .19985 | .53851 | -.00002 | .00014 | 3.0050 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00074** | **.00107** | **.00082** | **.92283** | **3.1484** | **.12082** | **.65255** | **.01473** | **.00050** |
| Stddev | .00006 | .00011 | .00032 | .00759 | .0085 | .00081 | .00093 | .00009 | .00018 |
| %RSD | 8.4593 | 10.500 | 38.920 | .82292 | .26862 | .67249 | .14307 | .60105 | 36.022 |
| #1 | .00079 | .00115 | .00105 | .91746 | 3.1544 | .12025 | .65321 | .01467 | .00037 |
| #2 | .00070 | .00099 | .00060 | .92820 | 3.1425 | .12140 | .65189 | .01479 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **576.98** | **.00095** | **.19448** | **.00115** | **.12856** | **-.00171** | **-.00269** | **9.6624** | **-.00047** |
| Stddev | 1.32 | .00008 | .00156 | .00022 | .00230 | .00158 | .00324 | .0195 | .00043 |
| %RSD | .22963 | 8.1208 | .80260 | 18.808 | 1.7892 | 92.224 | 120.13 | .20192 | 92.039 |
| #1 | 577.91 | .00089 | .19338 | .00100 | .13018 | -.00283 | -.00498 | 9.6762 | -.00017 |
| #2 | 576.04 | .00100 | .19558 | .00131 | .12693 | -.00060 | -.00041 | 9.6486 | -.00078 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56496** | **-.00100** | **.00040** | **.00056** | **.01546** | **.00024** | **.01944** | **.00078** |
| Stddev | .00088 | .00190 | .00022 | .00074 | .02000 | .00007 | .00020 | .00184 |
| %RSD | .15566 | 189.54 | 54.613 | 130.66 | 129.41 | 29.735 | 1.0408 | 237.51 |
| #1 | .56558 | -.00235 | .00025 | .00109 | .02960 | .00019 | .01958 | -.00053 |
| #2 | .56433 | .00034 | .00056 | .00004 | .00131 | .00029 | .01930 | .00208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6127.0** | **80649.** | **5690.7** |
| Stddev | 2.8 | 63. | 20.6 |
| %RSD | .04561 | .07854 | .36125 |
| #1 | 6129.0 | 80694. | 5676.1 |
| #2 | 6125.1 | 80604. | 5705.2 |

Sample Name: 280-41962-D-4-B Acquired: 5/14/2013 14:04:08 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **.20664** | **-.00010** | **.21998** | **.46836** | **-.00001** | **-.00276** | **3.7135** | **-.00007** |
| Stddev | .00041 | .00069 | .00147 | .00023 | .00002 | .00002 | .00122 | .0114 | .00007 |
| %RSD | 58.789 | .33316 | 1423.4 | .10344 | .00452 | 180.10 | 44.048 | .30797 | 110.96 |
| #1 | -.00041 | .20713 | .00094 | .21982 | .46838 | .00000 | -.00190 | 3.7216 | -.00012 |
| #2 | -.00098 | .20616 | -.00115 | .22014 | .46835 | -.00003 | -.00362 | 3.7055 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **.00072** | **.00208** | **.83965** | **3.5479** | **.13945** | **.80032** | **.03057** | **.00053** |
| Stddev | .00001 | .00010 | .00003 | .00231 | .0443 | .00080 | .00297 | .00021 | .00018 |
| %RSD | 1.4218 | 14.114 | 1.2085 | .27561 | 1.2481 | .57219 | .37131 | .67754 | 33.414 |
| #1 | .00084 | .00065 | .00210 | .84129 | 3.5166 | .13888 | .80242 | .03072 | .00066 |
| #2 | .00082 | .00080 | .00206 | .83801 | 3.5792 | .14001 | .79822 | .03043 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **614.70** | **.00107** | **.18182** | **.00119** | **.12490** | **-.00050** | **.00038** | **9.3922** | **.00042** |
| Stddev | 1.70 | .00018 | .00268 | .00035 | .00083 | .00191 | .00249 | .0156 | .00026 |
| %RSD | .27590 | 16.555 | 1.4741 | 29.562 | .66620 | 381.15 | 659.75 | .16623 | 60.975 |
| #1 | 613.50 | .00120 | .18372 | .00094 | .12549 | -.00185 | -.00138 | 9.4032 | .00061 |
| #2 | 615.90 | .00095 | .17993 | .00143 | .12431 | .00085 | .00213 | 9.3811 | .00024 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58652** | **-.00185** | **.00269** | **.00002** | **.04180** | **.00098** | **.02209** | **-.00069** |
| Stddev | .00102 | .00043 | .00013 | .00023 | .01640 | .00009 | .00051 | .00015 |
| %RSD | .17405 | 23.127 | 4.8634 | 929.98 | 39.240 | 9.3321 | 2.2874 | 21.341 |
| #1 | .58580 | -.00215 | .00278 | .00019 | .03020 | .00105 | .02245 | -.00080 |
| #2 | .58724 | -.00155 | .00259 | -.00014 | .05340 | .00092 | .02174 | -.00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6143.7** | **80873.** | **5665.8** |
| Stddev | 36.3 | 799. | 5.3 |
| %RSD | .59011 | .98809 | .09329 |
| #1 | 6169.3 | 80308. | 5669.5 |
| #2 | 6118.1 | 81438. | 5662.1 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 14:07:13 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00800** | **50.694** | **-.00055** | **-.00209** | **.00061** | **-.00007** | **1.0025** | **-.00142** | **-.00094** | **.00208** | **.00017** | **.00180** | **50.439** |
| Stddev | .00060 | .264 | .00304 | .00012 | .00021 | .00002 | .0079 | .00070 | .00005 | .00040 | .00011 | .00012 | .084 |
| %RSD | 7.5022 | .52051 | 556.01 | 5.8270 | 35.502 | 28.891 | .79101 | 48.905 | 5.0529 | 19.170 | 66.137 | 6.7254 | .16568 |
| #1 | .00843 | 50.508 | -.00270 | -.00217 | .00076 | -.00009 | 1.0081 | -.00093 | -.00090 | .00180 | .00025 | .00171 | 50.380 |
| #2 | .00758 | 50.881 | .00160 | -.00200 | .00045 | -.00006 | .99687 | -.00191 | -.00097 | .00237 | .00009 | .00188 | 50.498 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15685** | **.00210** | **-.01019** | **-.00073** | **-.00185** | **255.10** | **.00113** | **-.00286** | **-.00001** | **5.0727** | **-.00113** | **.00093** | **.03137** |
| Stddev | .01404 | .00030 | .00409 | .00012 | .00022 | .89 | .00006 | .00057 | .00051 | .0542 | .00035 | .00105 | .01075 |
| %RSD | 8.9495 | 14.114 | 40.124 | 16.074 | 11.861 | .34961 | 5.4739 | 19.949 | 6534.6 | 1.0687 | 30.598 | 113.06 | 34.275 |
| #1 | .16677 | .00231 | -.01308 | -.00081 | -.00170 | 254.47 | .00109 | -.00246 | -.00037 | 5.1110 | -.00089 | .00167 | .03898 |
| #2 | .14692 | .00189 | -.00730 | -.00064 | -.00201 | 255.73 | .00118 | -.00327 | .00036 | 5.0343 | -.00138 | .00019 | .02377 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00029** | **5.0260** | **.00241** | **-.00345** | **10.021** | **-.00031** | **.00279** | **-.03454** |
| Stddev | .00008 | .00008 | .0153 | .00014 | .00105 | .098 | .00052 | .00056 | .00321 |
| %RSD | 35.690 | 28.297 | .30351 | 5.7989 | 30.285 | .98107 | 168.13 | 19.932 | 9.2915 |
| #1 | .00017 | .00023 | 5.0153 | .00231 | -.00419 | 9.9517 | -.00068 | .00318 | -.03228 |
| #2 | .00029 | .00035 | 5.0368 | .00250 | -.00271 | 10.091 | .00006 | .00239 | -.03681 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6159.9** | **81310.** | **5492.5** |
| Stddev | 29.3 | 346. | 13.1 |
| %RSD | .47571 | .42548 | .23875 |
| #1 | 6139.2 | 81554. | 5483.3 |
| #2 | 6180.6 | 81065. | 5501.8 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 14:09:36 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51797** | **.48697** | **1.0051** | **.49449** | **.49813** | **.48589** | **-.00151** | **5.0309** | **.50417** | **.50618** | **.49510** | **.50107** | **2.4686** |
| Stddev | .00056 | .00295 | .0057 | .00295 | .00026 | .00077 | .00179 | .0267 | .00226 | .00192 | .00280 | .00094 | .0143 |
| %RSD | .10905 | .60654 | .56614 | .59647 | .05285 | .15800 | 118.73 | .53047 | .44730 | .37932 | .56601 | .18683 | .57762 |
| #1 | .51757 | .48906 | 1.0091 | .49657 | .49831 | .48644 | -.00278 | 5.0120 | .50576 | .50754 | .49708 | .50041 | 2.4585 |
| #2 | .51836 | .48488 | 1.0010 | .49240 | .49794 | .48535 | -.00024 | 5.0497 | .50257 | .50483 | .49312 | .50173 | 2.4786 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.268** | **1.0100** | **20.861** | **.51386** | **.48909** | **5.1288** | **.50367** | **.98466** | **1.0086** | **-.00578** | **1.0036** | **.99523** | **5.0222** |
| Stddev | .004 | .0036 | .015 | .00089 | .00270 | .0123 | .00099 | .00100 | .0055 | .00358 | .0040 | .00613 | .0048 |
| %RSD | .00844 | .35668 | .07199 | .17256 | .55136 | .23945 | .19693 | .10143 | .54852 | 61.866 | .39552 | .61599 | .09579 |
| #1 | 50.271 | 1.0075 | 20.851 | .51324 | .49100 | 5.1375 | .50437 | .98537 | 1.0125 | -.00325 | 1.0064 | .99957 | 5.0188 |
| #2 | 50.265 | 1.0126 | 20.872 | .51449 | .48719 | 5.1201 | .50297 | .98396 | 1.0047 | -.00831 | 1.0008 | .99090 | 5.0256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99027** | **.48906** | **-.00057** | **.50236** | **.98838** | **.04675** | **.50316** | **.52375** | **.49398** |
| Stddev | .00440 | .00097 | .00055 | .00097 | .00433 | .02717 | .00051 | .00069 | .00002 |
| %RSD | .44428 | .19906 | 96.810 | .19310 | .43804 | 58.119 | .10151 | .13166 | .00334 |
| #1 | .99338 | .48974 | -.00018 | .50168 | .99145 | .02754 | .50280 | .52423 | .49399 |
| #2 | .98716 | .48837 | -.00096 | .50305 | .98532 | .06596 | .50352 | .52326 | .49397 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6241.7** | **82348.** | **5622.4** |
| Stddev | 35.3 | 56. | 10.8 |
| %RSD | .56513 | .06815 | .19296 |
| #1 | 6216.8 | 82309. | 5630.0 |
| #2 | 6266.7 | 82388. | 5614.7 |

Sample Name: CCB Acquired: 5/14/2013 14:11:50 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **-.00015** | **-.00130** | F **-.00374** | W **.00070** | **-.00007** | **-.00036** | **-.00416** | **.00005** | **.00032** | **.00002** |
| Stddev | .00036 | .00016 | .00063 | .00013 | .00021 | .00006 | .00066 | .00108 | .00008 | .00006 | .00002 |
| %RSD | 140.94 | 108.91 | 47.971 | 3.3637 | 30.528 | 83.532 | 182.24 | 26.065 | 143.46 | 18.335 | 64.965 |
| #1 | -.00050 | -.00003 | -.00175 | -.00383 | .00055 | -.00003 | .00010 | -.00339 | .00011 | .00036 | .00003 |
| #2 | -.00000 | -.00026 | -.00086 | -.00365 | .00085 | -.00011 | -.00082 | -.00492 | -.00000 | .00027 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00060** | **.01783** | **.00197** | **-.00093** | **-.00004** | **-.00005** | F **.16647** | **-.00024** | **-.00713** | **.00087** |
| Stddev | .00063 | .00107 | .05101 | .00092 | .00122 | .00005 | .00010 | .02916 | .00025 | .00228 | .00088 |
| %RSD | 251.01 | 179.30 | 286.07 | 46.623 | 130.37 | 129.11 | 185.01 | 17.514 | 103.56 | 31.932 | 100.80 |
| #1 | .00020 | .00136 | -.01824 | .00262 | -.00179 | -.00000 | .00002 | .18709 | -.00006 | -.00875 | .00150 |
| #2 | -.00070 | -.00016 | .05390 | .00132 | -.00007 | -.00007 | -.00012 | .14586 | -.00042 | -.00552 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00308** | **-.00093** | W **-.00502** | **.01218** | **.00025** | **-.00005** | **.00002** | **.00028** | **-.00090** | **.01586** | **.00032** |
| Stddev | .00129 | .00063 | .00143 | .02485 | .00018 | .00005 | .00053 | .00031 | .00037 | .03529 | .00056 |
| %RSD | 41.781 | 67.980 | 28.566 | 204.00 | 71.211 | 99.442 | 2640.7 | 111.32 | 41.055 | 222.55 | 175.95 |
| #1 | -.00399 | -.00048 | -.00401 | -.00539 | .00012 | -.00001 | -.00035 | .00006 | -.00064 | -.00910 | -.00008 |
| #2 | -.00217 | -.00137 | -.00604 | .02975 | .00037 | -.00008 | .00039 | .00050 | -.00116 | .04081 | .00072 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .00486 | | | | | | | | |
| Low Limit | | | -.00486 | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00236** | **-.00078** |
| Stddev | .00000 | .00166 |
| %RSD | .11546 | 212.35 |
| #1 | .00237 | -.00196 |
| #2 | .00236 | .00039 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6206.4** | **81809.** | **5569.2** |
| Stddev | 10.0 | 10. | 26.2 |
| %RSD | .16132 | .01248 | .46985 |
| #1 | 6199.3 | 81817. | 5550.7 |
| #2 | 6213.5 | 81802. | 5587.8 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 14:14:18 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01086** | **.09879** | **.01242** | **.09327** | **.01039** | **.00094** | **.10260** | **.20585** | **.00530** | **.01075** | **.01004** |
| Stddev | .00060 | .00026 | .00018 | .00023 | .00002 | .00018 | .00120 | .00173 | .00016 | .00009 | .00018 |
| %RSD | 5.5632 | .26095 | 1.4476 | .24509 | .15476 | 19.114 | 1.1685 | .84221 | 2.9639 | .84363 | 1.7978 |
| #1 | .01043 | .09861 | .01229 | .09311 | .01040 | .00107 | .10175 | .20707 | .00541 | .01069 | .00991 |
| #2 | .01129 | .09897 | .01255 | .09343 | .01038 | .00081 | .10345 | .20462 | .00519 | .01082 | .01017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01525** | F **.18233** | **3.1229** | **.01121** | **.21752** | **.01163** | **.01950** | **1.1147** | **.04154** | **2.8832** | **.00816** |
| Stddev | .00005 | .00132 | .0368 | .00134 | .00192 | .00001 | .00011 | .0125 | .00005 | .0119 | .00087 |
| %RSD | .33923 | .72667 | 1.1798 | 11.926 | .88203 | .11203 | .55479 | 1.1189 | .12992 | .41254 | 10.713 |
| #1 | .01522 | .18139 | 3.1490 | .01216 | .21887 | .01162 | .01958 | 1.1059 | .04158 | 2.8748 | .00878 |
| #2 | .01529 | .18326 | 3.0969 | .01027 | .21616 | .01164 | .01943 | 1.1235 | .04150 | 2.8916 | .00754 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00178** | **.00944** | **.01358** | **.51087** | **.09987** | **.00997** | **.01432** | **.01024** | **.01549** | W **.07358** | **.01025** |
| Stddev | .00264 | .00122 | .00066 | .00717 | .00021 | .00019 | .00015 | .00032 | .00055 | .00018 | .00036 |
| %RSD | 148.35 | 12.920 | 4.8452 | 1.4041 | .20663 | 1.9332 | 1.0753 | 3.1075 | 3.5658 | .24684 | 3.4936 |
| #1 | -.00364 | .00857 | .01404 | .50579 | .09972 | .00983 | .01421 | .01002 | .01588 | .07345 | .01051 |
| #2 | .00009 | .01030 | .01311 | .51594 | .10001 | .01011 | .01443 | .01047 | .01510 | .07371 | .01000 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02463** | **.01429** |
| Stddev | .00036 | .00157 |
| %RSD | 1.4663 | 10.955 |
| #1 | .02437 | .01539 |
| #2 | .02488 | .01318 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6379.7** | **82953.** | **5701.0** |
| Stddev | 8.3 | 72. | 10.7 |
| %RSD | .13048 | .08726 | .18799 |
| #1 | 6373.9 | 83005. | 5693.4 |
| #2 | 6385.6 | 82902. | 5708.6 |

Sample Name: 280-41962-C-5-F Acquired: 5/14/2013 14:16:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.21337** | **.00066** | **.22166** | **.47295** | **.00002** | **-.00200** | **3.7716** | **-.00006** |
| Stddev | .00022 | .00190 | .00163 | .00042 | .00273 | .00008 | .00054 | .0309 | .00006 |
| %RSD | 30.533 | .88951 | 247.09 | .18891 | .57787 | 490.55 | 26.788 | .82068 | 113.62 |
| #1 | -.00057 | .21202 | .00181 | .22195 | .47102 | .00007 | -.00163 | 3.7497 | -.00010 |
| #2 | -.00089 | .21471 | -.00049 | .22136 | .47489 | -.00004 | -.00238 | 3.7935 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **.00066** | **.00181** | **.77926** | **3.3687** | **.13720** | **.82628** | **.03062** | **.00063** |
| Stddev | .00010 | .00007 | .00019 | .00349 | .0484 | .00167 | .00061 | .00008 | .00037 |
| %RSD | 13.443 | 9.9817 | 10.289 | .44752 | 1.4359 | 1.2156 | .07354 | .25099 | 58.514 |
| #1 | .00070 | .00061 | .00167 | .77680 | 3.3345 | .13838 | .82585 | .03057 | .00089 |
| #2 | .00084 | .00071 | .00194 | .78173 | 3.4029 | .13602 | .82671 | .03068 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **618.58** | **.00118** | **.18019** | **.00047** | **.12558** | **-.00132** | **-.00423** | **9.5022** | **-.00011** |
| Stddev | .01 | .00006 | .00297 | .00105 | .00244 | .00054 | .00017 | .0756 | .00001 |
| %RSD | .00143 | 4.9298 | 1.6496 | 222.79 | 1.9443 | 40.893 | 4.0047 | .79564 | 7.0146 |
| #1 | 618.57 | .00122 | .17808 | -.00027 | .12385 | -.00094 | -.00411 | 9.4487 | -.00011 |
| #2 | 618.58 | .00114 | .18229 | .00121 | .12730 | -.00170 | -.00435 | 9.5556 | -.00010 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59157** | **-.00257** | **.00260** | **.00147** | **.04984** | **.00114** | **.02043** | **-.00050** |
| Stddev | .00011 | .00195 | .00009 | .00026 | .01149 | .00011 | .00014 | .00100 |
| %RSD | .01933 | 75.893 | 3.3580 | 17.421 | 23.050 | 9.7213 | .66824 | 199.01 |
| #1 | .59165 | -.00119 | .00254 | .00128 | .04171 | .00107 | .02034 | .00021 |
| #2 | .59149 | -.00395 | .00266 | .00165 | .05796 | .00122 | .02053 | -.00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5974.5** | **77417.** | **5481.3** |
| Stddev | 10.5 | 134. | .2 |
| %RSD | .17617 | .17292 | .00332 |
| #1 | 5981.9 | 77511. | 5481.1 |
| #2 | 5967.0 | 77322. | 5481.4 |

Sample Name: 280-41962-C-6-F Acquired: 5/14/2013 14:19:49 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00072** | **.35372** | **-.00097** | **.15056** | **.13284** | **.00010** | **-.00165** | **26.875** | **-.00021** |
| Stddev | .00049 | .00176 | .00039 | .00100 | .00017 | .00003 | .00122 | .097 | .00002 |
| %RSD | 68.394 | .49763 | 40.682 | .66414 | .12718 | 30.347 | 74.234 | .35967 | 9.1208 |
| #1 | -.00107 | .35496 | -.00069 | .15127 | .13272 | .00013 | -.00251 | 26.943 | -.00023 |
| #2 | -.00037 | .35247 | -.00124 | .14986 | .13296 | .00008 | -.00078 | 26.806 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **.00051** | **.00327** | **.46509** | **4.5020** | **.07871** | **9.9081** | **.05253** | **.00378** |
| Stddev | .00017 | .00020 | .00014 | .00437 | .0378 | .00126 | .0236 | .00014 | .00024 |
| %RSD | 16.105 | 38.615 | 4.4132 | .93922 | .84055 | 1.6000 | .23773 | .26175 | 6.4567 |
| #1 | .00095 | .00037 | .00337 | .46200 | 4.4753 | .07782 | 9.9248 | .05263 | .00361 |
| #2 | .00119 | .00065 | .00317 | .46818 | 4.5288 | .07960 | 9.8915 | .05244 | .00395 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **531.24** | **.00186** | **.26181** | **.00138** | **1.7105** | **-.00250** | **-.00172** | **8.8098** | **-.00056** |
| Stddev | 3.43 | .00014 | .00361 | .00061 | .0108 | .00217 | .00048 | .0051 | .00051 |
| %RSD | .64573 | 7.5302 | 1.3784 | 44.219 | .63101 | 86.844 | 27.975 | .05803 | 91.402 |
| #1 | 533.66 | .00176 | .26436 | .00182 | 1.7181 | -.00097 | -.00138 | 8.8135 | -.00093 |
| #2 | 528.81 | .00196 | .25925 | .00095 | 1.7028 | -.00404 | -.00206 | 8.8062 | -.00020 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57267** | **-.00104** | **.00206** | **.00128** | **.03466** | **.00458** | **.01552** | **.00046** |
| Stddev | .00318 | .00001 | .00001 | .00036 | .00587 | .00012 | .00012 | .00025 |
| %RSD | .55446 | .97442 | .45162 | 28.150 | 16.937 | 2.5188 | .74646 | 55.062 |
| #1 | .57491 | -.00103 | .00205 | .00103 | .03881 | .00467 | .01544 | .00064 |
| #2 | .57042 | -.00105 | .00206 | .00153 | .03051 | .00450 | .01561 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5992.3** | **78486.** | **5544.7** |
| Stddev | 9.2 | 106. | 42.9 |
| %RSD | .15282 | .13544 | .77281 |
| #1 | 5998.7 | 78411. | 5514.4 |
| #2 | 5985.8 | 78561. | 5575.0 |

Sample Name: 280-41962-D-7-B Acquired: 5/14/2013 14:22:53 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00091** | **.00875** | **.00003** | **.01819** | **.14318** | **-.00016** | **-.00174** | **226.54** | **.00000** |
| Stddev | .00011 | .00011 | .00249 | .00062 | .00029 | .00006 | .00232 | 1.30 | .00009 |
| %RSD | 11.740 | 1.2335 | 8493.8 | 3.3831 | .20219 | 37.768 | 133.25 | .57440 | 17376. |
| #1 | -.00099 | .00867 | .00179 | .01863 | .14338 | -.00012 | -.00010 | 227.46 | .00006 |
| #2 | -.00083 | .00883 | -.00173 | .01776 | .14297 | -.00020 | -.00339 | 225.62 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **.00020** | **.00042** | **.39842** | **1.5797** | **.00682** | **52.960** | **.01424** | **.00079** |
| Stddev | .00023 | .00014 | .00022 | .00204 | .0566 | .00001 | .057 | .00002 | .00020 |
| %RSD | 31.956 | 69.079 | 53.475 | .51223 | 3.5798 | .20437 | .10794 | .14934 | 25.319 |
| #1 | .00057 | .00030 | .00026 | .39987 | 1.6197 | .00683 | 52.919 | .01426 | .00094 |
| #2 | .00090 | .00010 | .00057 | .39698 | 1.5397 | .00681 | 53.000 | .01423 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **75.918** | **.00083** | **.22753** | **.00203** | **8.4318** | **.00026** | **-.00042** | **7.1963** | **-.00087** |
| Stddev | .275 | .00013 | .00491 | .00132 | .0129 | .00123 | .00088 | .0183 | .00106 |
| %RSD | .36234 | 15.668 | 2.1564 | 65.114 | .15286 | 471.68 | 212.89 | .25456 | 121.51 |
| #1 | 75.724 | .00092 | .23100 | .00297 | 8.4227 | .00113 | -.00104 | 7.2093 | -.00162 |
| #2 | 76.113 | .00074 | .22406 | .00110 | 8.4409 | -.00061 | .00021 | 7.1834 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3111** | **-.00109** | **.00076** | **-.00081** | **.01061** | **.00108** | **.01989** | **.00025** |
| Stddev | .0230 | .00154 | .00007 | .00132 | .03867 | .00036 | .00015 | .00142 |
| %RSD | .69436 | 140.89 | 8.6787 | 163.15 | 364.29 | 33.540 | .77179 | 575.48 |
| #1 | 3.3273 | -.00000 | .00072 | .00012 | .03796 | .00133 | .02000 | .00125 |
| #2 | 3.2948 | -.00218 | .00081 | -.00174 | -.01673 | .00082 | .01978 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5993.5** | **79553.** | **5521.1** |
| Stddev | 26.6 | 171. | 42.8 |
| %RSD | .44418 | .21432 | .77598 |
| #1 | 5974.6 | 79674. | 5490.8 |
| #2 | 6012.3 | 79433. | 5551.4 |

Sample Name: sd 280-41962-D-7-B@5 Acquired: 5/14/2013 14:25:18 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00144** | **-.00140** | **.00089** | **.02813** | **-.00005** | **-.00204** | **44.312** | **.00013** |
| Stddev | .00036 | .00040 | .00126 | .00010 | .00007 | .00002 | .00365 | .055 | .00002 |
| %RSD | 193.22 | 27.632 | 90.361 | 11.451 | .25669 | 40.262 | 178.71 | .12415 | 17.965 |
| #1 | -.00044 | .00116 | -.00229 | .00096 | .02808 | -.00006 | -.00462 | 44.273 | .00012 |
| #2 | .00007 | .00172 | -.00051 | .00082 | .02818 | -.00003 | .00054 | 44.351 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00014** | **.00026** | **.08517** | **.33726** | **.00120** | **10.634** | **.00285** | **-.00011** |
| Stddev | .00028 | .00017 | .00019 | .00156 | .03736 | .00136 | .070 | .00001 | .00043 |
| %RSD | 168.52 | 123.43 | 70.034 | 1.8340 | 11.079 | 113.35 | .65680 | .24135 | 398.69 |
| #1 | .00037 | .00002 | .00013 | .08627 | .36368 | .00024 | 10.683 | .00285 | .00020 |
| #2 | -.00003 | .00026 | .00040 | .08406 | .31084 | .00215 | 10.584 | .00284 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.449** | **.00022** | **.03915** | **.00141** | **1.5807** | **-.00119** | **-.00493** | **1.3845** | **-.00073** |
| Stddev | .063 | .00003 | .00162 | .00171 | .0118 | .00108 | .00034 | .0174 | .00027 |
| %RSD | .40951 | 15.189 | 4.1506 | 120.91 | .74374 | 90.476 | 6.9819 | 1.2562 | 36.703 |
| #1 | 15.404 | .00020 | .03800 | .00262 | 1.5890 | -.00043 | -.00469 | 1.3968 | -.00054 |
| #2 | 15.494 | .00025 | .04030 | .00021 | 1.5724 | -.00195 | -.00517 | 1.3722 | -.00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64052** | **-.00003** | **.00001** | **.00147** | **-.00444** | **.00090** | **.00698** | **-.00057** |
| Stddev | .00055 | .00159 | .00016 | .00005 | .01235 | .00020 | .00008 | .00023 |
| %RSD | .08616 | 5086.6 | 1705.9 | 3.1140 | 278.24 | 22.006 | 1.1490 | 39.979 |
| #1 | .64013 | -.00116 | .00012 | .00144 | -.01317 | .00104 | .00692 | -.00041 |
| #2 | .64091 | .00109 | -.00010 | .00151 | .00429 | .00076 | .00703 | -.00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6248.5** | **81355.** | **5600.4** |
| Stddev | 26.7 | 280. | 6.1 |
| %RSD | .42729 | .34400 | .10970 |
| #1 | 6229.7 | 81157. | 5596.1 |
| #2 | 6267.4 | 81553. | 5604.8 |

Sample Name: 280-41962-D-7-C MS Acquired: 5/14/2013 14:27:46 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05617** | **1.8399** | **1.0307** | **1.0451** | **2.1702** | **.04900** | **2.0846** | **267.60** | **.10603** |
| Stddev | .00076 | .0028 | .0013 | .0012 | .0020 | .00002 | .0058 | 1.47 | .00017 |
| %RSD | 1.3518 | .15210 | .12269 | .11147 | .09399 | .04674 | .27778 | .54795 | .15668 |
| #1 | .05671 | 1.8419 | 1.0316 | 1.0459 | 2.1688 | .04898 | 2.0887 | 266.56 | .10615 |
| #2 | .05564 | 1.8379 | 1.0298 | 1.0443 | 2.1717 | .04902 | 2.0805 | 268.63 | .10592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49453** | **.19928** | **.25191** | **1.4392** | **53.715** | **1.0395** | **103.53** | **.51756** | **.99156** |
| Stddev | .00010 | .00041 | .00090 | .0037 | .015 | .0025 | .24 | .00049 | .00101 |
| %RSD | .02027 | .20578 | .35692 | .25867 | .02761 | .23921 | .23546 | .09438 | .10149 |
| #1 | .49446 | .19957 | .25127 | 1.4366 | 53.705 | 1.0377 | 103.70 | .51791 | .99228 |
| #2 | .49460 | .19899 | .25254 | 1.4418 | 53.726 | 1.0412 | 103.36 | .51722 | .99085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **125.29** | **.48708** | **10.730** | **.49485** | **8.4200** | **.52149** | **2.0481** | **17.458** | **1.9539** |
| Stddev | .11 | .00022 | .032 | .00132 | .0297 | .00187 | .0044 | .040 | .0033 |
| %RSD | .08949 | .04518 | .29689 | .26668 | .35288 | .35868 | .21505 | .22836 | .16960 |
| #1 | 125.21 | .48693 | 10.752 | .49578 | 8.4410 | .52281 | 2.0512 | 17.430 | 1.9562 |
| #2 | 125.37 | .48724 | 10.707 | .49391 | 8.3990 | .52016 | 2.0450 | 17.486 | 1.9515 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.2069** | **1.0283** | **1.0087** | **1.9041** | **2.1216** | **.51113** | **.52872** | **.48703** |
| Stddev | .0078 | .0014 | .0007 | .0020 | .0256 | .00096 | .00121 | .00076 |
| %RSD | .18506 | .13169 | .07173 | .10621 | 1.2080 | .18854 | .22870 | .15570 |
| #1 | 4.2124 | 1.0292 | 1.0082 | 1.9055 | 2.1035 | .51181 | .52957 | .48649 |
| #2 | 4.2014 | 1.0273 | 1.0092 | 1.9027 | 2.1398 | .51045 | .52786 | .48757 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5956.2** | **78763.** | **5509.0** |
| Stddev | 2.7 | 167. | 5.0 |
| %RSD | .04495 | .21142 | .09056 |
| #1 | 5958.1 | 78645. | 5512.5 |
| #2 | 5954.3 | 78881. | 5505.5 |

Sample Name: 280-41962-D-7-D MSD Acquired: 5/14/2013 14:30:04 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173651 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05611** | **1.8348** | **1.0286** | **1.0360** | **2.1727** | **.04884** | **2.0756** | **268.67** | **.10552** |
| Stddev | .00000 | .0020 | .0014 | .0016 | .0019 | .00016 | .0087 | 3.68 | .00025 |
| %RSD | .00741 | .10978 | .13300 | .15381 | .08609 | .31860 | .41720 | 1.3715 | .23311 |
| #1 | .05611 | 1.8362 | 1.0296 | 1.0371 | 2.1714 | .04895 | 2.0818 | 271.28 | .10570 |
| #2 | .05612 | 1.8334 | 1.0276 | 1.0348 | 2.1740 | .04873 | 2.0695 | 266.07 | .10535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49229** | **.19843** | **.25132** | **1.3772** | **53.783** | **1.0415** | **103.49** | **.51689** | **.98337** |
| Stddev | .00104 | .00062 | .00014 | .0045 | .088 | .0044 | .06 | .00020 | .00170 |
| %RSD | .21122 | .31365 | .05459 | .32775 | .16282 | .42163 | .05500 | .03826 | .17318 |
| #1 | .49302 | .19887 | .25122 | 1.3804 | 53.845 | 1.0384 | 103.45 | .51675 | .98458 |
| #2 | .49155 | .19799 | .25142 | 1.3740 | 53.721 | 1.0447 | 103.53 | .51703 | .98217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **126.37** | **.48694** | **10.672** | **.49480** | **8.4300** | **.50995** | **2.0410** | **17.450** | **1.9323** |
| Stddev | .17 | .00164 | .040 | .00202 | .0187 | .00045 | .0069 | .064 | .0066 |
| %RSD | .13558 | .33701 | .37758 | .40878 | .22241 | .08851 | .33969 | .36434 | .33952 |
| #1 | 126.49 | .48810 | 10.700 | .49623 | 8.4432 | .50963 | 2.0459 | 17.405 | 1.9369 |
| #2 | 126.25 | .48578 | 10.644 | .49337 | 8.4167 | .51027 | 2.0361 | 17.494 | 1.9277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.2307** | **1.0228** | **1.0017** | **1.8961** | **2.1168** | **.51067** | **.52946** | **.48337** |
| Stddev | .0026 | .0000 | .0017 | .0022 | .0150 | .00033 | .00037 | .00191 |
| %RSD | .06035 | .00357 | .16598 | .11633 | .70929 | .06441 | .06958 | .39555 |
| #1 | 4.2325 | 1.0228 | 1.0005 | 1.8977 | 2.1062 | .51090 | .52920 | .48202 |
| #2 | 4.2289 | 1.0228 | 1.0029 | 1.8946 | 2.1275 | .51044 | .52972 | .48472 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5924.3** | **78369.** | **5505.5** |
| Stddev | 12.6 | 86. | 26.0 |
| %RSD | .21243 | .10936 | .47205 |
| #1 | 5915.4 | 78309. | 5487.1 |
| #2 | 5933.2 | 78430. | 5523.8 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 14:32:21 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00822** | **49.886** | **-.00280** | **-.00065** | **.00048** | **.00006** | **.99367** | **.00193** | **-.00071** | **.00218** | **.00004** | **.00180** | **49.925** |
| Stddev | .00005 | .180 | .00026 | .00005 | .00005 | .00013 | .00180 | .00477 | .00004 | .00018 | .00006 | .00059 | .075 |
| %RSD | .59855 | .36138 | 9.2242 | 6.8857 | 9.5730 | 226.87 | .18147 | 247.47 | 5.0869 | 8.3619 | 148.95 | 32.834 | .14990 |
| #1 | .00818 | 50.014 | -.00298 | -.00069 | .00044 | -.00004 | .99239 | .00530 | -.00073 | .00231 | .00008 | .00138 | 49.978 |
| #2 | .00825 | 49.759 | -.00261 | -.00062 | .00051 | .00015 | .99494 | -.00145 | -.00068 | .00205 | -.00000 | .00221 | 49.872 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08532** | **.00155** | **-.01012** | **-.00061** | **-.00159** | **250.35** | **.00106** | **-.00276** | **.00094** | **5.0323** | **-.00053** | **.00106** | **.01094** |
| Stddev | .10451 | .00169 | .00448 | .00000 | .00004 | 1.78 | .00012 | .00133 | .00224 | .0003 | .00107 | .00154 | .02116 |
| %RSD | 122.49 | 108.77 | 44.318 | .11508 | 2.4523 | .70916 | 10.912 | 48.007 | 238.16 | .00531 | 201.43 | 145.53 | 193.42 |
| #1 | .01142 | .00036 | -.01329 | -.00061 | -.00156 | 251.61 | .00098 | -.00370 | -.00064 | 5.0321 | .00022 | -.00003 | .02590 |
| #2 | .15923 | .00275 | -.00695 | -.00061 | -.00162 | 249.10 | .00115 | -.00183 | .00252 | 5.0325 | -.00128 | .00214 | -.00402 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00037** | **5.0315** | **.00202** | **-.00124** | **9.9597** | **.00019** | **.00310** | **-.03596** |
| Stddev | .00071 | .00011 | .0096 | .00062 | .00141 | .0132 | .00005 | .00066 | .00029 |
| %RSD | 127.77 | 30.652 | .19033 | 30.442 | 113.96 | .13213 | 28.113 | 21.374 | .81723 |
| #1 | .00005 | .00029 | 5.0247 | .00246 | -.00024 | 9.9690 | .00023 | .00357 | -.03576 |
| #2 | .00105 | .00045 | 5.0382 | .00159 | -.00223 | 9.9504 | .00015 | .00263 | -.03617 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6141.2** | **80089.** | **5559.3** |
| Stddev | 5.4 | 126. | 50.2 |
| %RSD | .08720 | .15676 | .90371 |
| #1 | 6145.0 | 80000. | 5523.8 |
| #2 | 6137.4 | 80178. | 5594.8 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 14:34:43 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51673** | **.48339** | **.99942** | **.49309** | **.49559** | **.47739** | **-.00027** | **5.0174** | **.50164** | **.50628** | **.49377** | **.49818** | **2.4546** |
| Stddev | .00074 | .00123 | .00377 | .00022 | .00102 | .00088 | .00072 | .0004 | .00090 | .00018 | .00036 | .00027 | .0070 |
| %RSD | .14314 | .25492 | .37720 | .04384 | .20649 | .18424 | 268.61 | .00799 | .17936 | .03621 | .07381 | .05328 | .28380 |
| #1 | .51726 | .48426 | .99676 | .49324 | .49632 | .47801 | -.00078 | 5.0171 | .50101 | .50615 | .49351 | .49799 | 2.4497 |
| #2 | .51621 | .48252 | 1.0021 | .49293 | .49487 | .47677 | .00024 | 5.0177 | .50228 | .50641 | .49402 | .49837 | 2.4595 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.803** | **.99428** | **20.882** | **.51455** | **.48893** | **5.0025** | **.50400** | **.97889** | **1.0132** | **-.00425** | **1.0004** | **.99560** | **4.9761** |
| Stddev | .077 | .00137 | .020 | .00013 | .00175 | .0400 | .00168 | .00455 | .0001 | .00192 | .0024 | .00124 | .0108 |
| %RSD | .15528 | .13746 | .09621 | .02588 | .35886 | .79954 | .33415 | .46479 | .00566 | 45.060 | .23880 | .12487 | .21645 |
| #1 | 49.857 | .99331 | 20.896 | .51464 | .48769 | 5.0307 | .50281 | .98211 | 1.0132 | -.00290 | 1.0021 | .99472 | 4.9837 |
| #2 | 49.748 | .99525 | 20.868 | .51446 | .49017 | 4.9742 | .50519 | .97568 | 1.0131 | -.00561 | .99874 | .99648 | 4.9684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98959** | **.48412** | **.00236** | **.50253** | **.98760** | **.01594** | **.50238** | **.52989** | **.49136** |
| Stddev | .00148 | .00222 | .00276 | .00022 | .00126 | .03643 | .00074 | .00101 | .00050 |
| %RSD | .15004 | .45781 | 117.12 | .04398 | .12802 | 228.53 | .14746 | .19103 | .10276 |
| #1 | .99064 | .48569 | .00040 | .50268 | .98671 | .04170 | .50185 | .53060 | .49100 |
| #2 | .98854 | .48256 | .00431 | .50237 | .98849 | -.00982 | .50290 | .52917 | .49171 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6223.0** | **80683.** | **5677.5** |
| Stddev | 1.4 | 128. | 44.0 |
| %RSD | .02263 | .15897 | .77564 |
| #1 | 6224.0 | 80592. | 5646.4 |
| #2 | 6222.0 | 80774. | 5708.6 |

Sample Name: CCB Acquired: 5/14/2013 14:36:57 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **.00029** | **.00061** | W **-.00281** | **.00006** | **.00001** | **-.00091** | **-.00458** | **.00003** | **.00037** | **.00010** |
| Stddev | .00002 | .00042 | .00217 | .00021 | .00061 | .00005 | .00035 | .00121 | .00002 | .00019 | .00018 |
| %RSD | 10.143 | 142.68 | 353.49 | 7.5509 | 943.95 | 351.10 | 38.667 | 26.426 | 70.030 | 52.624 | 182.49 |
| #1 | -.00017 | .00059 | .00215 | -.00266 | -.00037 | .00005 | -.00116 | -.00373 | .00001 | .00023 | -.00003 |
| #2 | -.00019 | -.00000 | -.00092 | -.00296 | .00049 | -.00002 | -.00066 | -.00544 | .00004 | .00050 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **.00069** | **.04646** | **.00083** | **-.00233** | **-.00002** | **.00024** | F **.17106** | **-.00029** | **-.00559** | **.00128** |
| Stddev | .00006 | .00084 | .00348 | .00092 | .00199 | .00001 | .00021 | .01233 | .00018 | .00085 | .00014 |
| %RSD | 11.503 | 120.29 | 7.4924 | 110.83 | 85.153 | 46.606 | 87.177 | 7.2057 | 62.348 | 15.229 | 11.022 |
| #1 | -.00058 | .00129 | .04400 | .00148 | -.00093 | -.00003 | .00040 | .17977 | -.00016 | -.00619 | .00139 |
| #2 | -.00050 | .00010 | .04892 | .00018 | -.00374 | -.00001 | .00009 | .16234 | -.00042 | -.00499 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00398** | **-.00112** | **-.00084** | **.00360** | **-.00010** | **-.00003** | **.00009** | **.00016** | **-.00130** | **.01598** | **-.00016** |
| Stddev | .00504 | .00191 | .00288 | .00228 | .00070 | .00002 | .00098 | .00029 | .00078 | .01120 | .00020 |
| %RSD | 126.65 | 171.61 | 341.79 | 63.174 | 704.10 | 58.741 | 1057.9 | 186.21 | 60.362 | 70.072 | 128.64 |
| #1 | -.00042 | -.00247 | -.00288 | .00521 | -.00060 | -.00002 | .00079 | .00037 | -.00185 | .00806 | -.00030 |
| #2 | -.00755 | .00024 | .00119 | .00199 | .00040 | -.00004 | -.00060 | -.00005 | -.00074 | .02390 | -.00001 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00243** | **.00063** |
| Stddev | .00031 | .00182 |
| %RSD | 12.916 | 287.55 |
| #1 | .00221 | -.00066 |
| #2 | .00265 | .00192 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6237.8** | **82265.** | **5557.7** |
| Stddev | 7.3 | 166. | 61.1 |
| %RSD | .11675 | .20130 | 1.0986 |
| #1 | 6243.0 | 82148. | 5514.5 |
| #2 | 6232.7 | 82382. | 5600.9 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 14:39:26 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01004** | **.09887** | **.01363** | **.09245** | **.01092** | **.00101** | **.10366** | **.20397** | **.00509** | **.01110** | **.01006** |
| Stddev | .00107 | .00012 | .00208 | .00021 | .00023 | .00005 | .00009 | .00281 | .00004 | .00014 | .00004 |
| %RSD | 10.696 | .11777 | 15.228 | .23006 | 2.1357 | 5.1615 | .08411 | 1.3772 | .72094 | 1.2589 | .39731 |
| #1 | .00928 | .09895 | .01510 | .09260 | .01075 | .00105 | .10360 | .20199 | .00506 | .01119 | .01009 |
| #2 | .01079 | .09879 | .01216 | .09230 | .01108 | .00098 | .10372 | .20596 | .00511 | .01100 | .01004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01518** | **.10124** | **3.1786** | W **.01202** | **.21695** | **.01060** | **.01952** | **1.1494** | **.04137** | **2.8845** | **.00923** |
| Stddev | .00015 | .00191 | .0794 | .00006 | .00453 | .00001 | .00027 | .0150 | .00008 | .0017 | .00158 |
| %RSD | .95868 | 1.8872 | 2.4987 | .46420 | 2.0902 | .13995 | 1.3803 | 1.3081 | .20359 | .05930 | 17.086 |
| #1 | .01508 | .10259 | 3.1224 | .01206 | .21375 | .01061 | .01971 | 1.1600 | .04131 | 2.8833 | .01035 |
| #2 | .01529 | .09989 | 3.2347 | .01198 | .22016 | .01059 | .01933 | 1.1387 | .04143 | 2.8857 | .00812 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00250** | **.00848** | **.01488** | **.51729** | **.09940** | **.00997** | **.01541** | **.00999** | **.01445** | F **.07864** | **.00969** |
| Stddev | .00212 | .00116 | .00087 | .00704 | .00107 | .00007 | .00034 | .00079 | .00035 | .00854 | .00029 |
| %RSD | 84.790 | 13.644 | 5.8791 | 1.3606 | 1.0749 | .69481 | 2.2032 | 7.8872 | 2.4118 | 10.855 | 3.0023 |
| #1 | -.00100 | .00930 | .01426 | .52226 | .10016 | .00992 | .01517 | .00943 | .01420 | .07261 | .00948 |
| #2 | -.00400 | .00766 | .01550 | .51231 | .09865 | .01001 | .01565 | .01054 | .01469 | .08468 | .00990 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02415** | **.01310** |
| Stddev | .00022 | .00107 |
| %RSD | .89685 | 8.2041 |
| #1 | .02430 | .01386 |
| #2 | .02399 | .01234 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6286.5** | **81910.** | **5496.3** |
| Stddev | 12.7 | 302. | 41.5 |
| %RSD | .20207 | .36824 | .75494 |
| #1 | 6295.5 | 81697. | 5467.0 |
| #2 | 6277.5 | 82123. | 5525.6 |

Sample Name: MB 280-173567/1-A Acquired: 5/14/2013 14:41:50 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **.00199** | **.00066** | F **-.00393** | F **.00130** | **-.00001** | **-.00011** | **.03450** | **-.00016** |
| Stddev | .00027 | .00007 | .00045 | .00024 | .00021 | .00017 | .00097 | .00058 | .00011 |
| %RSD | 94.240 | 3.5494 | 68.151 | 6.0826 | 15.819 | 1670.7 | 870.04 | 1.6898 | 69.841 |
| #1 | -.00048 | .00204 | .00098 | -.00376 | .00116 | .00011 | -.00080 | .03408 | -.00024 |
| #2 | -.00010 | .00194 | .00034 | -.00410 | .00145 | -.00013 | .00058 | .03491 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | .00127 | | | | |
| Low Limit | | | | -.00343 | -.00127 | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00042** | **-.00007** | W **.03189** | **.00657** | **.00003** | **.00249** | W **.00036** | **-.00005** |
| Stddev | .00002 | .00011 | .00015 | .00006 | .04090 | .00019 | .00092 | .00003 | .00023 |
| %RSD | 9.3041 | 26.900 | 216.16 | .18889 | 622.46 | 697.65 | 37.016 | 7.2537 | 477.51 |
| #1 | .00024 | .00034 | -.00017 | .03193 | -.02235 | .00016 | .00314 | .00034 | -.00021 |
| #2 | .00027 | .00050 | .00004 | .03184 | .03549 | -.00011 | .00184 | .00038 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | .02200 | | | | .00025 | |
| Low Limit | | | | -.02200 | | | | -.00025 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.13994** | **.00006** | F **.17340** | **-.00058** | **.02872** | **-.00231** | **-.00074** | W **.03993** | **.00046** |
| Stddev | .00488 | .00004 | .00036 | .00016 | .00126 | .00068 | .00066 | .00633 | .00019 |
| %RSD | 3.4844 | 73.659 | .20782 | 27.166 | 4.3909 | 29.636 | 89.828 | 15.846 | 41.413 |
| #1 | .13649 | .00003 | .17366 | -.00070 | .02783 | -.00279 | -.00027 | .03546 | .00060 |
| #2 | .14339 | .00008 | .17315 | -.00047 | .02961 | -.00183 | -.00121 | .04441 | .00033 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .09160 | | .02970 | | | | | .03470 | |
| Low Limit | -.09160 | | -.02970 | | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00070** | **-.00003** | **-.00057** | F **.03756** | **-.00031** | **.00337** | **-.00150** |
| Stddev | .00010 | .00107 | .00028 | .00055 | .02831 | .00031 | .00011 | .00173 |
| %RSD | 61.730 | 151.66 | 914.85 | 95.151 | 75.369 | 99.676 | 3.2155 | 115.49 |
| #1 | .00023 | .00146 | -.00023 | -.00019 | .01754 | -.00053 | .00345 | -.00028 |
| #2 | .00009 | -.00005 | .00017 | -.00096 | .05757 | -.00009 | .00330 | -.00273 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .03542 | | | |
| Low Limit | | | | | -.03542 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6287.8** | **82894.** | **5578.0** |
| Stddev | 7.7 | 319. | 8.6 |
| %RSD | .12168 | .38526 | .15466 |
| #1 | 6282.4 | 83120. | 5584.1 |
| #2 | 6293.2 | 82668. | 5571.9 |

Sample Name: LCS 280-173567/2-A Acquired: 5/14/2013 14:44:19 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05612** | **1.8845** | **1.0174** | **1.0143** | **2.0380** | **.04914** | **2.0608** | **50.175** | **.10454** |
| Stddev | .00129 | .0016 | .0008 | .0006 | .0106 | .00025 | .0038 | .232 | .00003 |
| %RSD | 2.3073 | .08584 | .08119 | .05523 | .52125 | .50495 | .18558 | .46171 | .02766 |
| #1 | .05704 | 1.8834 | 1.0168 | 1.0139 | 2.0455 | .04932 | 2.0581 | 50.339 | .10452 |
| #2 | .05521 | 1.8857 | 1.0180 | 1.0147 | 2.0304 | .04897 | 2.0635 | 50.012 | .10456 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50097** | **.19999** | **.24983** | **.99833** | **51.570** | **1.0266** | **52.528** | **.51273** | **.98384** |
| Stddev | .00058 | .00028 | .00023 | .01114 | .174 | .0042 | .115 | .00067 | .00010 |
| %RSD | .11621 | .13793 | .09346 | 1.1158 | .33768 | .40528 | .21930 | .13093 | .01032 |
| #1 | .50138 | .19979 | .24967 | 1.0062 | 51.693 | 1.0295 | 52.609 | .51321 | .98377 |
| #2 | .50056 | .20018 | .25000 | .99045 | 51.447 | 1.0236 | 52.446 | .51226 | .98391 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.101** | **.49752** | **10.359** | **.50442** | **-.00527** | **.50909** | **2.0328** | **10.299** | **1.9815** |
| Stddev | .114 | .00042 | .000 | .00110 | .00313 | .00237 | .0094 | .020 | .0047 |
| %RSD | .21856 | .08444 | .00042 | .21727 | 59.502 | .46468 | .46093 | .19434 | .23892 |
| #1 | 52.020 | .49782 | 10.359 | .50519 | -.00748 | .51076 | 2.0261 | 10.313 | 1.9781 |
| #2 | 52.181 | .49723 | 10.359 | .50364 | -.00305 | .50741 | 2.0394 | 10.285 | 1.9848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98702** | **1.0298** | **1.0118** | **1.9648** | **2.0685** | **.50998** | **.53046** | **.48852** |
| Stddev | .00503 | .0036 | .0028 | .0040 | .0356 | .00301 | .00197 | .00266 |
| %RSD | .50972 | .35307 | .27737 | .20148 | 1.7190 | .59107 | .37132 | .54540 |
| #1 | .99058 | 1.0324 | 1.0138 | 1.9620 | 2.0936 | .51211 | .53185 | .48664 |
| #2 | .98346 | 1.0273 | 1.0098 | 1.9676 | 2.0433 | .50785 | .52906 | .49040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6138.5** | **80149.** | **5507.0** |
| Stddev | 5.7 | 314. | 6.7 |
| %RSD | .09315 | .39118 | .12078 |
| #1 | 6134.4 | 79927. | 5502.3 |
| #2 | 6142.5 | 80371. | 5511.7 |

Sample Name: 280-41983-B-1-A Acquired: 5/14/2013 14:46:31 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **.00826** | **.02633** | **1.5352** | **.03977** | **-.00004** | **-.00165** | **278.17** | **.00040** |
| Stddev | .00013 | .00018 | .00268 | .0008 | .00051 | .00003 | .00102 | 2.98 | .00013 |
| %RSD | 73.000 | 2.1438 | 10.164 | .04942 | 1.2757 | 66.010 | 61.523 | 1.0723 | 33.016 |
| #1 | -.00009 | .00813 | .02443 | 1.5358 | .03941 | -.00002 | -.00237 | 280.27 | .00049 |
| #2 | -.00028 | .00838 | .02822 | 1.5347 | .04013 | -.00006 | -.00093 | 276.06 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00815** | **.00058** | **.00217** | **7.4700** | **5.0461** | **.02989** | **82.981** | **3.4314** | **.00529** |
| Stddev | .00001 | .00007 | .00021 | .0338 | .0309 | .00107 | .185 | .0067 | .00005 |
| %RSD | .15022 | 12.864 | 9.7611 | .45202 | .61314 | 3.5821 | .22244 | .19618 | 1.0157 |
| #1 | .00816 | .00053 | .00202 | 7.4939 | 5.0242 | .02913 | 83.111 | 3.4361 | .00533 |
| #2 | .00814 | .00064 | .00232 | 7.4461 | 5.0680 | .03065 | 82.850 | 3.4266 | .00525 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **639.20** | **.01093** | **1.5383** | **.00083** | **185.66** | **.00124** | **.00264** | **9.3468** | **-.00057** |
| Stddev | 2.07 | .00011 | .0167 | .00182 | .15 | .00063 | .00510 | .0474 | .00041 |
| %RSD | .32407 | .97996 | 1.0868 | 219.10 | .08238 | 50.565 | 193.24 | .50769 | 73.071 |
| #1 | 640.66 | .01100 | 1.5265 | .00211 | 185.55 | .00168 | .00625 | 9.3804 | -.00086 |
| #2 | 637.73 | .01085 | 1.5501 | -.00046 | 185.76 | .00080 | -.00097 | 9.3133 | -.00027 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0347** | **.00093** | **.00165** | **-.00154** | **.30370** | **.00146** | **.06327** | **.00145** |
| Stddev | .0036 | .00053 | .00013 | .00048 | .00583 | .00050 | .00138 | .00099 |
| %RSD | .35046 | 56.420 | 8.0904 | 31.092 | 1.9191 | 34.085 | 2.1813 | 68.706 |
| #1 | 1.0373 | .00056 | .00174 | -.00188 | .30782 | .00111 | .06425 | .00215 |
| #2 | 1.0322 | .00131 | .00155 | -.00120 | .29958 | .00181 | .06230 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5871.9** | **77098.** | **5600.7** |
| Stddev | 7.9 | 305. | 34.9 |
| %RSD | .13516 | .39574 | .62323 |
| #1 | 5866.3 | 76882. | 5576.0 |
| #2 | 5877.5 | 77314. | 5625.4 |

Sample Name: sd 280-41983-B-1-A@5 Acquired: 5/14/2013 14:49:38 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00182** | **.00658** | **.29882** | **.00809** | **-.00010** | **.00036** | **56.344** | **.00002** |
| Stddev | .00028 | .00006 | .00029 | .00287 | .00033 | .00002 | .00047 | .036 | .00013 |
| %RSD | 303.69 | 3.2499 | 4.3700 | .96053 | 4.0907 | 17.061 | 130.98 | .06398 | 668.67 |
| #1 | .00029 | .00177 | .00678 | .30085 | .00786 | -.00009 | .00003 | 56.318 | -.00007 |
| #2 | -.00011 | .00186 | .00637 | .29679 | .00833 | -.00012 | .00069 | 56.369 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00183** | **.00019** | **.00049** | **1.5356** | **1.0350** | **.00662** | **16.868** | **.69472** | **.00089** |
| Stddev | .00005 | .00012 | .00053 | .0039 | .0167 | .00255 | .029 | .00140 | .00011 |
| %RSD | 2.6545 | 61.288 | 109.76 | .25116 | 1.6095 | 38.475 | .17441 | .20146 | 12.661 |
| #1 | .00179 | .00011 | .00086 | 1.5383 | 1.0233 | .00482 | 16.847 | .69373 | .00081 |
| #2 | .00186 | .00028 | .00011 | 1.5329 | 1.0468 | .00842 | 16.889 | .69571 | .00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **126.15** | **.00215** | **.31463** | **-.00044** | **34.712** | **-.00137** | **.00018** | **1.8193** | **.00003** |
| Stddev | .01 | .00022 | .00551 | .00096 | .270 | .00066 | .00144 | .0315 | .00011 |
| %RSD | .00794 | 10.401 | 1.7520 | 217.01 | .77766 | 48.450 | 811.43 | 1.7305 | 355.18 |
| #1 | 126.15 | .00199 | .31852 | -.00112 | 34.903 | -.00090 | .00120 | 1.8416 | .00011 |
| #2 | 126.14 | .00230 | .31073 | .00024 | 34.521 | -.00183 | -.00084 | 1.7971 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20683** | **-.00157** | **.00023** | **-.00069** | **.08648** | **-.00007** | **.01570** | **.00191** |
| Stddev | .00026 | .00059 | .00012 | .00061 | .01895 | .00017 | .00054 | .00060 |
| %RSD | .12619 | 37.703 | 50.953 | 87.930 | 21.906 | 256.55 | 3.4310 | 31.373 |
| #1 | .20701 | -.00115 | .00032 | -.00026 | .07309 | -.00019 | .01608 | .00149 |
| #2 | .20664 | -.00199 | .00015 | -.00112 | .09988 | .00005 | .01532 | .00233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6175.6** | **81241.** | **5778.9** |
| Stddev | 31.1 | 8. | 19.0 |
| %RSD | .50362 | .00973 | .32899 |
| #1 | 6153.6 | 81246. | 5765.5 |
| #2 | 6197.6 | 81235. | 5792.4 |

Sample Name: 280-41983-B-1-B MS Acquired: 5/14/2013 14:52:03 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05663** | **1.7635** | **1.0640** | **2.4859** | **2.0515** | **.04783** | **2.0373** | **320.63** | **.10515** |
| Stddev | .00095 | .0030 | .0021 | .0014 | .0087 | .00031 | .0011 | 1.28 | .00009 |
| %RSD | 1.6753 | .17179 | .19825 | .05554 | .42338 | .65658 | .05599 | .39903 | .08833 |
| #1 | .05731 | 1.7614 | 1.0655 | 2.4849 | 2.0577 | .04805 | 2.0381 | 319.72 | .10521 |
| #2 | .05596 | 1.7657 | 1.0625 | 2.4868 | 2.0454 | .04761 | 2.0365 | 321.53 | .10508 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49157** | **.19546** | **.24972** | **8.2823** | **56.739** | **1.0363** | **129.72** | **3.8153** | **.98053** |
| Stddev | .00008 | .00021 | .00093 | .0330 | .253 | .0007 | .33 | .0022 | .00023 |
| %RSD | .01557 | .10907 | .37204 | .39828 | .44657 | .06824 | .25789 | .05690 | .02351 |
| #1 | .49162 | .19561 | .25037 | 8.3056 | 56.918 | 1.0368 | 129.95 | 3.8169 | .98036 |
| #2 | .49152 | .19531 | .24906 | 8.2590 | 56.560 | 1.0358 | 129.48 | 3.8138 | .98069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **677.47** | **.48537** | **11.987** | **.47628** | **179.21** | **.51470** | **2.0343** | **19.161** | **1.9053** |
| Stddev | .75 | .00090 | .006 | .00098 | .03 | .00191 | .0110 | .147 | .0018 |
| %RSD | .11082 | .18614 | .04914 | .20541 | .01623 | .37187 | .53871 | .76487 | .09605 |
| #1 | 678.00 | .48601 | 11.983 | .47698 | 179.24 | .51605 | 2.0420 | 19.265 | 1.9040 |
| #2 | 676.94 | .48473 | 11.991 | .47559 | 179.19 | .51335 | 2.0265 | 19.058 | 1.9066 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9922** | **1.0087** | **.99247** | **1.7623** | **2.3331** | **.50117** | **.55610** | **.47983** |
| Stddev | .0077 | .0002 | .00054 | .0017 | .0228 | .00037 | .00349 | .00007 |
| %RSD | .38775 | .02330 | .05448 | .09776 | .97678 | .07418 | .62742 | .01527 |
| #1 | 1.9976 | 1.0088 | .99209 | 1.7635 | 2.3492 | .50143 | .55856 | .47988 |
| #2 | 1.9867 | 1.0085 | .99285 | 1.7610 | 2.3170 | .50090 | .55363 | .47977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5792.5** | **77449.** | **5652.9** |
| Stddev | 10.1 | 439. | 8.3 |
| %RSD | .17475 | .56655 | .14624 |
| #1 | 5799.7 | 77139. | 5647.1 |
| #2 | 5785.4 | 77759. | 5658.8 |

Sample Name: 280-41983-B-1-C MSD Acquired: 5/14/2013 14:54:59 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05822** | **1.8159** | **1.1002** | **2.5833** | **2.1023** | **.04923** | **2.1160** | **330.41** | **.10871** |
| Stddev | .00018 | .0003 | .0032 | .0016 | .0004 | .00003 | .0001 | 4.75 | .00010 |
| %RSD | .31231 | .01829 | .28892 | .06300 | .01845 | .05918 | .00548 | 1.4385 | .08871 |
| #1 | .05835 | 1.8161 | 1.0979 | 2.5822 | 2.1025 | .04925 | 2.1159 | 327.05 | .10864 |
| #2 | .05809 | 1.8156 | 1.1024 | 2.5845 | 2.1020 | .04921 | 2.1161 | 333.77 | .10878 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50588** | **.20089** | **.25885** | **8.5753** | **58.571** | **1.0686** | **134.89** | **3.9782** | **1.0031** |
| Stddev | .00061 | .00008 | .00153 | .0220 | .057 | .0032 | .74 | .0168 | .0003 |
| %RSD | .11973 | .04007 | .59280 | .25690 | .09816 | .29990 | .54513 | .42276 | .02995 |
| #1 | .50631 | .20083 | .25993 | 8.5909 | 58.530 | 1.0663 | 135.41 | 3.9901 | 1.0033 |
| #2 | .50545 | .20094 | .25776 | 8.5597 | 58.611 | 1.0709 | 134.37 | 3.9663 | 1.0029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **703.92** | **.50010** | **12.419** | **.49285** | **187.63** | **.52519** | **2.1181** | **19.860** | **1.9492** |
| Stddev | .08 | .00006 | .002 | .00003 | .08 | .00097 | .0002 | .001 | .0005 |
| %RSD | .01207 | .01105 | .01261 | .00540 | .04331 | .18484 | .00913 | .00592 | .02500 |
| #1 | 703.98 | .50014 | 12.420 | .49286 | 187.69 | .52588 | 2.1182 | 19.860 | 1.9488 |
| #2 | 703.86 | .50006 | 12.418 | .49283 | 187.57 | .52451 | 2.1180 | 19.861 | 1.9495 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0578** | **1.0440** | **1.0175** | **1.8185** | **2.4199** | **.51856** | **.57404** | **.48779** |
| Stddev | .0018 | .0072 | .0033 | .0043 | .0240 | .00150 | .00454 | .00411 |
| %RSD | .08674 | .69136 | .32786 | .23681 | .99052 | .28898 | .79113 | .84322 |
| #1 | 2.0565 | 1.0491 | 1.0199 | 1.8215 | 2.4369 | .51962 | .57725 | .49070 |
| #2 | 2.0590 | 1.0389 | 1.0152 | 1.8155 | 2.4030 | .51750 | .57082 | .48488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5718.1** | **75585.** | **5439.1** |
| Stddev | .2 | 522. | 15.8 |
| %RSD | .00342 | .69048 | .29008 |
| #1 | 5718.0 | 75216. | 5428.0 |
| #2 | 5718.2 | 75954. | 5450.3 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 14:57:56 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00754** | **49.358** | **-.00260** | **.00286** | **.00080** | **-.00005** | **.99863** | **.00691** | **-.00076** | **.00197** | **.00002** | **.00134** | **50.028** |
| Stddev | .00068 | .010 | .00379 | .00081 | .00034 | .00001 | .00363 | .00460 | .00015 | .00002 | .00016 | .00011 | .100 |
| %RSD | 9.0084 | .02112 | 146.09 | 28.302 | 42.423 | 9.7499 | .36311 | 66.567 | 19.448 | 1.2368 | 669.28 | 8.3665 | .20023 |
| #1 | .00706 | 49.350 | .00009 | .00343 | .00103 | -.00006 | .99606 | .01017 | -.00087 | .00199 | .00013 | .00142 | 50.099 |
| #2 | .00802 | 49.365 | -.00528 | .00229 | .00056 | -.00005 | 1.0012 | .00366 | -.00066 | .00195 | -.00009 | .00126 | 49.957 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21776** | **.00289** | **-.01345** | **-.00067** | **-.00174** | **248.37** | **.00121** | **.03951** | **.00015** | **5.0650** | **-.00075** | **.00184** | **-.00025** |
| Stddev | .00206 | .00092 | .00099 | .00002 | .00014 | .42 | .00010 | .00760 | .00095 | .0033 | .00034 | .00238 | .01444 |
| %RSD | .94496 | 31.864 | 7.3918 | 3.0183 | 8.1273 | .16924 | 8.2105 | 19.229 | 652.77 | .06592 | 45.084 | 129.69 | 5796.1 |
| #1 | .21922 | .00354 | -.01275 | -.00068 | -.00184 | 248.67 | .00114 | .04488 | .00082 | 5.0626 | -.00100 | .00352 | .00996 |
| #2 | .21631 | .00224 | -.01415 | -.00066 | -.00164 | 248.07 | .00128 | .03414 | -.00053 | 5.0674 | -.00051 | .00015 | -.01046 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00029** | **5.0935** | **.00229** | **-.00124** | **10.091** | **-.00050** | **.00193** | **-.03993** |
| Stddev | .00029 | .00012 | .0153 | .00036 | .00061 | .058 | .00021 | .00002 | .00321 |
| %RSD | 195.88 | 39.556 | .30005 | 15.913 | 49.428 | .57783 | 41.823 | 1.0571 | 8.0492 |
| #1 | .00035 | .00021 | 5.0827 | .00203 | -.00080 | 10.132 | -.00035 | .00191 | -.03766 |
| #2 | -.00006 | .00037 | 5.1043 | .00255 | -.00167 | 10.050 | -.00065 | .00194 | -.04220 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6141.6** | **79387.** | **5686.1** |
| Stddev | 11.1 | 53. | 20.9 |
| %RSD | .18008 | .06621 | .36819 |
| #1 | 6133.7 | 79350. | 5671.3 |
| #2 | 6149.4 | 79425. | 5700.9 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 15:00:19 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51770** | **.48505** | **1.0095** | **.49893** | **.49654** | **.47883** | **-.00260** | **4.9999** | **.50431** | **.50657** | **.49501** | **.49892** | **2.4425** |
| Stddev | .00026 | .00059 | .0006 | .00025 | .00079 | .00098 | .00107 | .0081 | .00061 | .00023 | .00010 | .00112 | .0055 |
| %RSD | .05058 | .12251 | .06047 | .05090 | .15883 | .20535 | 41.135 | .16196 | .12018 | .04483 | .01979 | .22379 | .22357 |
| #1 | .51751 | .48547 | 1.0100 | .49875 | .49710 | .47813 | -.00335 | 5.0056 | .50473 | .50673 | .49494 | .49813 | 2.4464 |
| #2 | .51788 | .48463 | 1.0091 | .49911 | .49599 | .47952 | -.00184 | 4.9942 | .50388 | .50641 | .49508 | .49971 | 2.4387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.722** | **.99313** | **20.836** | **.51389** | **.48922** | **5.1990** | **.50320** | **1.0071** | **1.0095** | **.00664** | **1.0103** | **1.0029** | **4.9383** |
| Stddev | .010 | .00294 | .043 | .00098 | .00032 | .0195 | .00080 | .0014 | .0002 | .00120 | .0012 | .0063 | .0188 |
| %RSD | .01993 | .29653 | .20750 | .19138 | .06457 | .37453 | .15860 | .14021 | .01817 | 18.093 | .11400 | .62619 | .37981 |
| #1 | 49.729 | .99105 | 20.805 | .51319 | .48900 | 5.2128 | .50376 | 1.0080 | 1.0093 | .00749 | 1.0095 | .99842 | 4.9515 |
| #2 | 49.715 | .99521 | 20.866 | .51459 | .48944 | 5.1852 | .50263 | 1.0061 | 1.0096 | .00579 | 1.0111 | 1.0073 | 4.9250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99404** | **.48508** | **-.00114** | **.50298** | **.99032** | **.05093** | **.50191** | **.52758** | **.49315** |
| Stddev | .00080 | .00030 | .00111 | .00095 | .00110 | .03405 | .00030 | .00053 | .00395 |
| %RSD | .08072 | .06265 | 97.162 | .18827 | .11116 | 66.859 | .06022 | .10104 | .80158 |
| #1 | .99461 | .48530 | -.00193 | .50231 | .99110 | .07501 | .50170 | .52796 | .49035 |
| #2 | .99347 | .48487 | -.00036 | .50365 | .98954 | .02685 | .50213 | .52720 | .49594 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6187.1** | **81187.** | **5695.2** |
| Stddev | 4.3 | 223. | 16.5 |
| %RSD | .06890 | .27520 | .28969 |
| #1 | 6190.1 | 81029. | 5706.8 |
| #2 | 6184.1 | 81345. | 5683.5 |

Sample Name: CCB Acquired: 5/14/2013 15:02:32 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **-.00036** | **-.00110** | **-.00142** | **.00010** | **.00008** | **-.00150** | **-.00497** | **.00006** | **.00044** | **-.00004** | **-.00030** |
| Stddev | .00004 | .00043 | .00112 | .00020 | .00031 | .00001 | .00056 | .00109 | .00008 | .00012 | .00001 | .00028 |
| %RSD | 37.705 | 119.77 | 101.18 | 14.363 | 317.42 | 8.5277 | 37.558 | 21.927 | 123.93 | 26.155 | 20.582 | 92.468 |
| #1 | -.00009 | -.00006 | -.00031 | -.00128 | -.00012 | .00008 | -.00190 | -.00574 | .00001 | .00052 | -.00003 | -.00050 |
| #2 | -.00015 | -.00067 | -.00189 | -.00157 | .00032 | .00009 | -.00110 | -.00420 | .00012 | .00036 | -.00004 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.04349** | **.00173** | **-.00158** | **.00004** | **.00008** | F **.33082** | **-.00024** | **.00772** | **.00019** | **.00493** | **-.00230** |
| Stddev | .00075 | .02208 | .00064 | .00040 | .00015 | .00020 | .01205 | .00064 | .00147 | .00114 | .00201 | .00007 |
| %RSD | 491.23 | 50.775 | 36.748 | 25.370 | 344.01 | 263.47 | 3.6434 | 271.63 | 19.029 | 607.46 | 40.784 | 3.1103 |
| #1 | .00069 | .02788 | .00128 | -.00130 | -.00006 | -.00007 | .33934 | .00022 | .00668 | -.00062 | .00635 | -.00235 |
| #2 | -.00038 | .05910 | .00219 | -.00186 | .00015 | .00022 | .32230 | -.00069 | .00876 | .00099 | .00351 | -.00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | .10000 | | | | | |
| Low Limit | | | | | | | -.10000 | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00111** | **.01216** | **-.00016** | **-.00006** | **-.00008** | **-.00023** | **-.00181** | **.03033** | **-.00032** | **.00249** | **.00060** |
| Stddev | .00093 | .01146 | .00027 | .00012 | .00187 | .00011 | .00141 | .01238 | .00062 | .00050 | .00187 |
| %RSD | 84.155 | 94.259 | 174.42 | 210.00 | 2259.9 | 49.412 | 78.301 | 40.823 | 194.04 | 19.941 | 311.35 |
| #1 | -.00177 | .02026 | .00004 | .00003 | .00124 | -.00031 | -.00281 | .03909 | .00012 | .00214 | .00192 |
| #2 | -.00045 | .00405 | -.00035 | -.00015 | -.00141 | -.00015 | -.00081 | .02158 | -.00076 | .00284 | -.00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6200.9** | **81614.** | **5524.0** |
| Stddev | 13.2 | 221. | 54.0 |
| %RSD | .21329 | .27081 | .97773 |
| #1 | 6191.5 | 81458. | 5485.8 |
| #2 | 6210.2 | 81771. | 5562.2 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 15:05:02 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00983** | **.09969** | **.01403** | **.09533** | **.01075** | **.00094** | **.10676** | **.20256** | **.00527** | **.01088** | **.01015** |
| Stddev | .00002 | .00035 | .00007 | .00104 | .00023 | .00002 | .00043 | .00098 | .00000 | .00025 | .00028 |
| %RSD | .22326 | .34747 | .49465 | 1.0929 | 2.1079 | 1.6958 | .40724 | .48515 | .06967 | 2.2792 | 2.7574 |
| #1 | .00985 | .09945 | .01408 | .09460 | .01091 | .00093 | .10646 | .20325 | .00527 | .01070 | .00995 |
| #2 | .00982 | .09994 | .01398 | .09607 | .01059 | .00095 | .10707 | .20186 | .00527 | .01105 | .01035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01562** | **.10261** | **3.1763** | **.01006** | **.21882** | **.01072** | **.01952** | W **1.2903** | **.04155** | **2.9479** | **.00953** |
| Stddev | .00056 | .00397 | .0054 | .00227 | .00199 | .00003 | .00005 | .0006 | .00017 | .0221 | .00200 |
| %RSD | 3.5976 | 3.8683 | .17087 | 22.519 | .91049 | .29077 | .24989 | .04537 | .40909 | .74881 | 20.989 |
| #1 | .01602 | .10542 | 3.1801 | .01166 | .21741 | .01074 | .01948 | 1.2907 | .04143 | 2.9323 | .00812 |
| #2 | .01523 | .09981 | 3.1724 | .00846 | .22022 | .01070 | .01955 | 1.2899 | .04167 | 2.9635 | .01095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **.00895** | **.01445** | **.50747** | **.10109** | **.01006** | **.01512** | **.01004** | **.01556** | F **.07954** | **.01036** |
| Stddev | .00174 | .00120 | .00428 | .00223 | .00065 | .00008 | .00080 | .00012 | .00087 | .05153 | .00004 |
| %RSD | 129.84 | 13.425 | 29.605 | .43998 | .64313 | .76042 | 5.2702 | 1.1681 | 5.5637 | 64.783 | .39851 |
| #1 | .00011 | .00810 | .01143 | .50905 | .10063 | .01012 | .01569 | .01013 | .01617 | .04310 | .01039 |
| #2 | .00257 | .00980 | .01748 | .50589 | .10155 | .01001 | .01456 | .00996 | .01494 | .11597 | .01033 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02397** | **.01247** |
| Stddev | .00008 | .00117 |
| %RSD | .31769 | 9.4184 |
| #1 | .02391 | .01330 |
| #2 | .02402 | .01163 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6217.0** | **81370.** | **5630.7** |
| Stddev | 36.1 | 419. | 14.2 |
| %RSD | .58051 | .51534 | .25281 |
| #1 | 6242.5 | 81667. | 5620.6 |
| #2 | 6191.5 | 81074. | 5640.8 |

Sample Name: 280-41983-B-2-A Acquired: 5/14/2013 15:07:26 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.13506** | **-.00254** | **1.1866** | **.01358** | **.00013** | **-.00363** | **401.43** | **.68624** |
| Stddev | .00024 | .00002 | .00780 | .0048 | .00007 | .00012 | .00057 | 2.19 | .00176 |
| %RSD | 126.98 | .01850 | 307.17 | .40759 | .54297 | 97.996 | 15.673 | .54560 | .25671 |
| #1 | -.00002 | .13504 | -.00806 | 1.1832 | .01353 | .00022 | -.00404 | 399.88 | .68500 |
| #2 | -.00036 | .13508 | .00298 | 1.1900 | .01363 | .00004 | -.00323 | 402.98 | .68749 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01253** | **.00056** | **.00986** | **.00832** | **3.5947** | **.06651** | **96.224** | **3.5887** | **.00313** |
| Stddev | .00019 | .00011 | .00026 | .00132 | .0952 | .00041 | .077 | .0032 | .00007 |
| %RSD | 1.5280 | 20.381 | 2.5977 | 15.870 | 2.6487 | .61492 | .08025 | .09013 | 2.3586 |
| #1 | .01240 | .00064 | .00968 | .00925 | 3.5274 | .06622 | 96.170 | 3.5864 | .00318 |
| #2 | .01267 | .00048 | .01005 | .00738 | 3.6620 | .06680 | 96.279 | 3.5910 | .00307 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **789.54** | **.02821** | **1.0747** | **.00059** | **593.61** | **.00211** | **.00033** | **6.1765** | **-.00080** |
| Stddev | 3.70 | .00064 | .0107 | .00060 | .99 | .00039 | .00233 | .0380 | .00072 |
| %RSD | .46865 | 2.2526 | .99669 | 101.71 | .16724 | 18.446 | 704.95 | .61553 | 89.880 |
| #1 | 786.92 | .02777 | 1.0671 | .00101 | 592.91 | .00183 | .00198 | 6.1496 | -.00029 |
| #2 | 792.15 | .02866 | 1.0822 | .00017 | 594.31 | .00238 | -.00132 | 6.2034 | -.00131 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5839** | **-.00044** | **.00184** | **-.00286** | **.19846** | **.00105** | **7.1172** | **.00093** |
| Stddev | .0102 | .00192 | .00023 | .00112 | .01468 | .00048 | .0123 | .00370 |
| %RSD | .64363 | 433.21 | 12.767 | 39.203 | 7.3972 | 45.420 | .17312 | 398.09 |
| #1 | 1.5767 | .00091 | .00200 | -.00207 | .18808 | .00071 | 7.1085 | -.00169 |
| #2 | 1.5911 | -.00180 | .00167 | -.00365 | .20884 | .00139 | 7.1259 | .00354 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5738.2** | **75710.** | **5589.8** |
| Stddev | 37.5 | 376. | 21.7 |
| %RSD | .65360 | .49687 | .38772 |
| #1 | 5764.7 | 75976. | 5605.1 |
| #2 | 5711.7 | 75444. | 5574.4 |

Sample Name: 280-41983-B-3-A Acquired: 5/14/2013 15:10:33 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00701** | **.02986** | **.01553** | **.46172** | **.03251** | **.00011** | **-.00098** | **273.78** | **.00038** |
| Stddev | .00076 | .00041 | .00286 | .00323 | .00007 | .00014 | .00156 | 1.83 | .00006 |
| %RSD | 10.833 | 1.3615 | 18.385 | .70048 | .21899 | 133.36 | 159.65 | .67014 | 16.364 |
| #1 | .00647 | .03014 | .01351 | .46401 | .03246 | .00001 | -.00208 | 275.08 | .00042 |
| #2 | .00754 | .02957 | .01755 | .45944 | .03256 | .00021 | .00013 | 272.48 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03500** | **.00065** | **.00084** | **19.051** | **8.9370** | **.14867** | **71.638** | F **43.806** | **-.00264** |
| Stddev | .00009 | .00013 | .00010 | .127 | .0073 | .00108 | .209 | .050 | .00015 |
| %RSD | .25266 | 19.709 | 12.026 | .66882 | .08192 | .72661 | .29190 | .11396 | 5.8141 |
| #1 | .03506 | .00056 | .00077 | 19.141 | 8.9422 | .14944 | 71.786 | 43.771 | -.00253 |
| #2 | .03493 | .00075 | .00092 | 18.961 | 8.9318 | .14791 | 71.490 | 43.842 | -.00275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **505.64** | **.00938** | **4.9726** | **.00568** | **331.40** | **-.00355** | **.00385** | **10.113** | **-.00095** |
| Stddev | 2.45 | .00005 | .0052 | .00033 | 1.16 | .00069 | .00074 | .032 | .00041 |
| %RSD | .48481 | .54222 | .10528 | 5.8703 | .34925 | 19.530 | 19.229 | .31620 | 43.293 |
| #1 | 507.37 | .00935 | 4.9689 | .00591 | 332.21 | -.00404 | .00333 | 10.136 | -.00066 |
| #2 | 503.91 | .00942 | 4.9763 | .00544 | 330.58 | -.00306 | .00437 | 10.091 | -.00123 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1594** | **-.00387** | **.00156** | F **-.03425** | **-.01082** | F **-.02402** | **.00990** | **.00051** |
| Stddev | .0065 | .00019 | .00019 | .00020 | .02736 | .00054 | .00040 | .00265 |
| %RSD | .56384 | 4.8727 | 12.252 | .59624 | 252.81 | 2.2495 | 4.0431 | 521.81 |
| #1 | 1.1640 | -.00401 | .00169 | -.03439 | -.03017 | -.02440 | .00962 | -.00137 |
| #2 | 1.1548 | -.00374 | .00142 | -.03410 | .00852 | -.02363 | .01019 | .00238 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | 20.000 | | 50.000 | | |
| Low Limit | | | | -.02000 | | -.02000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5744.8** | **76335.** | **5438.9** |
| Stddev | 25.3 | 99. | 14.3 |
| %RSD | .44067 | .12946 | .26268 |
| #1 | 5762.7 | 76265. | 5428.8 |
| #2 | 5726.9 | 76405. | 5449.0 |

Sample Name: 280-41983-B-4-A Acquired: 5/14/2013 15:13:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00547** | **.02846** | **.12623** | **.49569** | **.04276** | **.00011** | **.00198** | **281.57** | **.04398** |
| Stddev | .00017 | .00002 | .00255 | .00198 | .00017 | .00002 | .00247 | 1.55 | .00002 |
| %RSD | 3.1516 | .05710 | 2.0226 | .39907 | .40614 | 19.608 | 124.59 | .54896 | .03588 |
| #1 | .00559 | .02844 | .12442 | .49429 | .04288 | .00012 | .00024 | 280.48 | .04399 |
| #2 | .00535 | .02847 | .12803 | .49708 | .04263 | .00009 | .00373 | 282.67 | .04397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16216** | **.00048** | **.00124** | **7.7398** | **9.6721** | **.20774** | **68.258** | F **37.424** | **.00044** |
| Stddev | .00063 | .00006 | .00016 | .0208 | .0078 | .00147 | .312 | .197 | .00005 |
| %RSD | .38927 | 13.428 | 12.637 | .26840 | .08087 | .70762 | .45688 | .52565 | 11.357 |
| #1 | .16172 | .00044 | .00135 | 7.7251 | 9.6666 | .20670 | 68.479 | 37.285 | .00047 |
| #2 | .16261 | .00053 | .00113 | 7.7545 | 9.6776 | .20878 | 68.038 | 37.563 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **547.28** | **.07432** | **1.5908** | **.00560** | **410.32** | **-.00398** | **.00320** | **10.355** | **-.00058** |
| Stddev | .42 | .00048 | .0029 | .00080 | .96 | .00167 | .00148 | .022 | .00031 |
| %RSD | .07666 | .64713 | .18001 | 14.329 | .23489 | 42.098 | 46.062 | .21587 | 53.804 |
| #1 | 546.98 | .07398 | 1.5888 | .00504 | 409.64 | -.00516 | .00216 | 10.371 | -.00036 |
| #2 | 547.58 | .07466 | 1.5929 | .00617 | 411.00 | -.00279 | .00425 | 10.340 | -.00081 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1513** | **-.00633** | **.00135** | F **-.02852** | **.02106** | F **-.02032** | **2.7274** | **-.00117** |
| Stddev | .0001 | .00004 | .00001 | .00161 | .01779 | .00025 | .0090 | .00271 |
| %RSD | .01176 | .67134 | .90386 | 5.6551 | 84.471 | 1.2163 | .32927 | 232.00 |
| #1 | 1.1512 | -.00636 | .00135 | -.02966 | .00848 | -.02049 | 2.7338 | .00075 |
| #2 | 1.1514 | -.00630 | .00136 | -.02738 | .03363 | -.02014 | 2.7211 | -.00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | 20.000 | | 50.000 | | |
| Low Limit | | | | -.02000 | | -.02000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5804.9** | **76263.** | **5535.2** |
| Stddev | 1.4 | 230. | .3 |
| %RSD | .02335 | .30189 | .00603 |
| #1 | 5805.8 | 76100. | 5534.9 |
| #2 | 5803.9 | 76426. | 5535.4 |

Sample Name: 280-41983-B-5-A Acquired: 5/14/2013 15:16:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00510** | **.00363** | **.26043** | **.48596** | **.03647** | **-.00003** | **.00167** | **260.58** | **.01484** |
| Stddev | .00011 | .00003 | .00014 | .00090 | .00031 | .00003 | .00093 | 3.69 | .00005 |
| %RSD | 2.1760 | .72660 | .05441 | .18537 | .84947 | 120.82 | 55.772 | 1.4160 | .35227 |
| #1 | .00518 | .00361 | .26033 | .48532 | .03625 | -.00005 | .00233 | 257.97 | .01480 |
| #2 | .00503 | .00365 | .26053 | .48660 | .03669 | -.00000 | .00101 | 263.19 | .01487 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15906** | **.00114** | **.00174** | **3.9991** | **15.676** | **.12198** | **72.352** | F **33.171** | **.00721** |
| Stddev | .00024 | .00011 | .00002 | .0004 | .064 | .00152 | .191 | .228 | .00001 |
| %RSD | .14863 | 9.4497 | 1.0308 | .01064 | .40896 | 1.2438 | .26381 | .68812 | .10532 |
| #1 | .15889 | .00106 | .00173 | 3.9988 | 15.631 | .12091 | 72.487 | 33.332 | .00720 |
| #2 | .15923 | .00122 | .00176 | 3.9994 | 15.722 | .12305 | 72.217 | 33.010 | .00721 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **472.29** | **.07516** | **1.2779** | **.00508** | **352.58** | **-.00127** | **.00022** | **9.3827** | **-.00086** |
| Stddev | 1.39 | .00022 | .0019 | .00135 | .83 | .00193 | .00051 | .0255 | .00000 |
| %RSD | .29348 | .28756 | .15219 | 26.517 | .23653 | 152.20 | 235.31 | .27193 | .26515 |
| #1 | 471.31 | .07532 | 1.2765 | .00603 | 353.17 | .00010 | -.00014 | 9.3647 | -.00086 |
| #2 | 473.27 | .07501 | 1.2793 | .00413 | 351.99 | -.00264 | .00058 | 9.4008 | -.00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1760** | **-.00426** | **.00114** | F **-.02508** | **.05407** | W **-.01643** | **.59525** | **-.00078** |
| Stddev | .0032 | .00017 | .00010 | .00142 | .01936 | .00087 | .00163 | .00238 |
| %RSD | .26985 | 3.9961 | 8.9990 | 5.6586 | 35.794 | 5.2785 | .27417 | 305.86 |
| #1 | 1.1737 | -.00438 | .00107 | -.02608 | .06776 | -.01705 | .59641 | -.00246 |
| #2 | 1.1782 | -.00414 | .00121 | -.02408 | .04039 | -.01582 | .59410 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | 20.000 | | 45.000 | | |
| Low Limit | | | | -.02000 | | -.01000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5824.3** | **76786.** | **5560.5** |
| Stddev | 9.1 | 329. | 25.0 |
| %RSD | .15550 | .42883 | .45002 |
| #1 | 5817.9 | 76553. | 5578.2 |
| #2 | 5830.7 | 77019. | 5542.8 |

Sample Name: 280-41983-B-6-A Acquired: 5/14/2013 15:19:33 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00394** | **.63902** | **.28191** | **.06235** | **-.00016** | **-.00050** | **271.43** | **.00110** |
| Stddev | .00031 | .00033 | .01055 | .00211 | .00024 | .00006 | .00407 | 7.84 | .00014 |
| %RSD | 1263.2 | 8.3135 | 1.6503 | .74765 | .39054 | 35.960 | 820.23 | 2.8887 | 12.773 |
| #1 | -.00019 | .00417 | .63157 | .28042 | .06253 | -.00021 | -.00337 | 276.98 | .00120 |
| #2 | .00024 | .00371 | .64648 | .28340 | .06218 | -.00012 | .00238 | 265.89 | .00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **.00070** | **.00109** | **.30584** | **13.097** | **.11140** | **52.547** | **5.2044** | **.00001** |
| Stddev | .00012 | .00020 | .00011 | .00403 | .014 | .00086 | .052 | .0684 | .00017 |
| %RSD | 9.7944 | 28.734 | 9.6385 | 1.3177 | .10459 | .76752 | .09878 | 1.3145 | 3023.7 |
| #1 | .00126 | .00056 | .00116 | .30869 | 13.087 | .11200 | 52.584 | 5.1560 | -.00011 |
| #2 | .00110 | .00085 | .00102 | .30299 | 13.107 | .11079 | 52.510 | 5.2527 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **481.99** | **.00576** | **1.1022** | **.00147** | **29.830** | **-.00229** | **-.00014** | **15.668** | **-.00071** |
| Stddev | 1.52 | .00001 | .0028 | .00116 | .181 | .00218 | .00219 | .045 | .00034 |
| %RSD | .31606 | .15860 | .25603 | 79.196 | .60517 | 95.522 | 1550.2 | .28556 | 48.572 |
| #1 | 483.07 | .00576 | 1.1002 | .00065 | 29.702 | -.00074 | -.00169 | 15.699 | -.00095 |
| #2 | 480.91 | .00577 | 1.1042 | .00229 | 29.958 | -.00383 | .00141 | 15.636 | -.00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96766** | **-.00015** | **.00193** | **-.00355** | **.00763** | **.00156** | **.00531** | **.00103** |
| Stddev | .00187 | .00457 | .00008 | .00136 | .02264 | .00021 | .00038 | .00041 |
| %RSD | .19375 | 2991.8 | 3.9368 | 38.285 | 296.94 | 13.322 | 7.0731 | 39.443 |
| #1 | .96898 | .00308 | .00198 | -.00451 | .02364 | .00141 | .00504 | .00131 |
| #2 | .96633 | -.00339 | .00187 | -.00259 | -.00839 | .00171 | .00557 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5815.6** | **77070.** | **5641.2** |
| Stddev | 21.5 | 401. | 6.1 |
| %RSD | .37037 | .51987 | .10729 |
| #1 | 5830.9 | 77353. | 5637.0 |
| #2 | 5800.4 | 76787. | 5645.5 |

Sample Name: 280-41983-B-7-A Acquired: 5/14/2013 15:22:13 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **.20095** | **-.00006** | **.46703** | **.01722** | **.00027** | **-.00242** | **145.71** | **.31653** |
| Stddev | .00067 | .00058 | .00194 | .00036 | .00019 | .00011 | .00134 | 1.33 | .00000 |
| %RSD | 441.12 | .28699 | 3346.5 | .07663 | 1.0920 | 41.500 | 55.412 | .91155 | .00049 |
| #1 | -.00063 | .20054 | -.00143 | .46677 | .01735 | .00035 | -.00147 | 146.65 | .31653 |
| #2 | .00032 | .20136 | .00131 | .46728 | .01708 | .00019 | -.00337 | 144.77 | .31653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02544** | **.00040** | **.00323** | **.01157** | **3.5654** | **.05049** | **33.026** | **4.9941** | **-.00026** |
| Stddev | .00008 | .00017 | .00083 | .00023 | .0189 | .00090 | .018 | .0165 | .00009 |
| %RSD | .29936 | 42.594 | 25.672 | 2.0224 | .52991 | 1.7858 | .05558 | .33057 | 35.526 |
| #1 | .02539 | .00052 | .00264 | .01173 | 3.5787 | .04985 | 33.013 | 5.0057 | -.00020 |
| #2 | .02550 | .00028 | .00382 | .01140 | 3.5520 | .05113 | 33.039 | 4.9824 | -.00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **740.79** | **.04465** | **.26942** | **.00070** | **511.96** | **-.00196** | **-.00310** | **8.2661** | **-.00109** |
| Stddev | 7.88 | .00022 | .00475 | .00085 | .48 | .00106 | .00369 | .0059 | .00051 |
| %RSD | 1.0643 | .50227 | 1.7627 | 120.47 | .09379 | 53.875 | 119.17 | .07109 | 46.855 |
| #1 | 746.36 | .04450 | .27278 | .00130 | 512.29 | -.00271 | -.00049 | 8.2620 | -.00073 |
| #2 | 735.21 | .04481 | .26606 | .00010 | 511.62 | -.00121 | -.00570 | 8.2703 | -.00145 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.60267** | **-.00044** | **.00024** | **-.00288** | **-.01149** | **-.00076** | **4.4974** | **.00047** |
| Stddev | .00644 | .00218 | .00062 | .00012 | .05945 | .00102 | .0039 | .00080 |
| %RSD | 1.0685 | 493.37 | 252.39 | 4.0907 | 517.43 | 134.78 | .08604 | 171.05 |
| #1 | .60722 | -.00198 | -.00019 | -.00296 | .03055 | -.00004 | 4.5001 | -.00010 |
| #2 | .59812 | .00110 | .00068 | -.00280 | -.05353 | -.00148 | 4.4946 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5816.2** | **75966.** | **5624.6** |
| Stddev | 5.5 | 67. | 52.7 |
| %RSD | .09455 | .08759 | .93742 |
| #1 | 5812.3 | 75919. | 5587.3 |
| #2 | 5820.1 | 76013. | 5661.9 |

Sample Name: 280-41983-B-8-A Acquired: 5/14/2013 15:25:20 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173567 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **.01459** | **-.00294** | **.36522** | **.02299** | **-.00004** | **-.00223** | **371.44** | **1.7002** |
| Stddev | .00006 | .00018 | .00014 | .00149 | .00076 | .00003 | .00180 | .57 | .0053 |
| %RSD | 8.1032 | 1.2296 | 4.7891 | .40855 | 3.2856 | 82.084 | 81.071 | .15294 | .31275 |
| #1 | .00079 | .01446 | -.00284 | .36416 | .02352 | -.00006 | -.00095 | 371.84 | 1.6965 |
| #2 | .00071 | .01472 | -.00304 | .36627 | .02245 | -.00002 | -.00350 | 371.04 | 1.7040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08048** | **.00050** | **.00339** | **.68750** | **34.817** | **.08563** | **73.264** | W **12.580** | **-.00020** |
| Stddev | .00066 | .00015 | .00039 | .00345 | .033 | .00044 | .178 | .045 | .00008 |
| %RSD | .81587 | 29.043 | 11.505 | .50252 | .09503 | .50852 | .24334 | .35861 | 38.391 |
| #1 | .08001 | .00060 | .00312 | .68994 | 34.841 | .08532 | 73.138 | 12.548 | -.00015 |
| #2 | .08094 | .00040 | .00367 | .68505 | 34.794 | .08594 | 73.390 | 12.612 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **849.69** | **.09577** | **.25589** | **.00210** | **727.44** | **-.00164** | **-.00197** | **9.1204** | **-.00012** |
| Stddev | 3.37 | .00054 | .00372 | .00003 | 1.84 | .00022 | .00215 | .0105 | .00122 |
| %RSD | .39623 | .55891 | 1.4539 | 1.6421 | .25333 | 13.120 | 109.58 | .11545 | 1047.9 |
| #1 | 852.07 | .09539 | .25853 | .00207 | 726.14 | -.00149 | -.00349 | 9.1130 | -.00098 |
| #2 | 847.31 | .09615 | .25326 | .00212 | 728.74 | -.00179 | -.00044 | 9.1279 | .00074 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2591** | **-.00247** | **.00167** | **.00486** | **.03383** | **-.00290** | W **12.256** | **-.00131** |
| Stddev | .0062 | .00300 | .00046 | .00064 | .00754 | .00028 | .018 | .00139 |
| %RSD | .49384 | 121.77 | 27.744 | 13.230 | 22.299 | 9.6643 | .15093 | 106.27 |
| #1 | 1.2635 | -.00459 | .00200 | .00441 | .03916 | -.00270 | 12.243 | -.00230 |
| #2 | 1.2547 | -.00034 | .00135 | .00532 | .02850 | -.00310 | 12.269 | -.00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5647.6** | **74575.** | **5518.9** |
| Stddev | 38.9 | 444. | 54.0 |
| %RSD | .68816 | .59522 | .97920 |
| #1 | 5675.0 | 74889. | 5480.7 |
| #2 | 5620.1 | 74261. | 5557.1 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 15:28:32 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00827** | **49.891** | **-.00245** | **-.00250** | **.00042** | **-.00008** | **.98830** | **.00211** | **-.00094** | **.00213** | **-.00004** | **.00126** | **50.070** |
| Stddev | .00064 | .643 | .00131 | .00014 | .00005 | .00002 | .00165 | .00041 | .00005 | .00014 | .00003 | .00047 | .561 |
| %RSD | 7.7091 | 1.2881 | 53.617 | 5.4734 | 12.905 | 31.845 | .16657 | 19.629 | 5.2477 | 6.6035 | 91.876 | 37.146 | 1.1207 |
| #1 | .00782 | 49.437 | -.00152 | -.00240 | .00046 | -.00006 | .98946 | .00181 | -.00090 | .00203 | -.00001 | .00093 | 49.673 |
| #2 | .00872 | 50.346 | -.00338 | -.00259 | .00038 | -.00010 | .98713 | .00240 | -.00097 | .00223 | -.00006 | .00159 | 50.467 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24776** | **.00192** | **-.01246** | **-.00050** | **-.00198** | **250.29** | **.00139** | **.03010** | **.00019** | **5.1705** | **-.00167** | **.00042** | **.01192** |
| Stddev | .01878 | .00202 | .00361 | .00010 | .00003 | 2.74 | .00027 | .00328 | .00068 | .0010 | .00130 | .00187 | .00864 |
| %RSD | 7.5784 | 105.09 | 28.968 | 20.603 | 1.4971 | 1.0937 | 19.701 | 10.886 | 360.60 | .01961 | 77.978 | 445.25 | 72.462 |
| #1 | .26104 | .00049 | -.00991 | -.00043 | -.00195 | 248.35 | .00120 | .03241 | .00067 | 5.1698 | -.00075 | -.00090 | .00581 |
| #2 | .23448 | .00334 | -.01501 | -.00058 | -.00200 | 252.23 | .00159 | .02778 | -.00029 | 5.1712 | -.00258 | .00174 | .01803 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.00022** | **5.0769** | **.00221** | **-.00243** | **9.9761** | **-.00057** | **.00325** | **-.04095** |
| Stddev | .00034 | .00008 | .0067 | .00025 | .00009 | .0757 | .00005 | .00012 | .00010 |
| %RSD | 309.86 | 36.764 | .13230 | 11.172 | 3.6035 | .75879 | 9.1079 | 3.8004 | .24320 |
| #1 | -.00035 | .00016 | 5.0817 | .00239 | -.00249 | 10.030 | -.00054 | .00334 | -.04088 |
| #2 | .00013 | .00028 | 5.0722 | .00204 | -.00237 | 9.9226 | -.00061 | .00316 | -.04102 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6065.6** | **78928.** | **5570.9** |
| Stddev | 1.3 | 234. | 69.3 |
| %RSD | .02213 | .29674 | 1.2447 |
| #1 | 6064.7 | 78762. | 5620.0 |
| #2 | 6066.6 | 79094. | 5521.9 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 15:30:55 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52156** | **.48320** | **.99618** | **.48553** | **.49894** | **.47746** | **-.00010** | **5.0299** | **.49897** | **.50490** | **.49166** | **.49677** |
| Stddev | .00117 | .00085 | .00350 | .00236 | .00089 | .00139 | .00005 | .0131 | .00252 | .00155 | .00252 | .00003 |
| %RSD | .22443 | .17537 | .35090 | .48614 | .17859 | .29146 | 50.749 | .25977 | .50497 | .30650 | .51165 | .00663 |
| #1 | .52073 | .48260 | .99370 | .48387 | .49831 | .47647 | -.00014 | 5.0392 | .49719 | .50381 | .48988 | .49675 |
| #2 | .52239 | .48380 | .99865 | .48720 | .49957 | .47844 | -.00006 | 5.0207 | .50076 | .50600 | .49344 | .49680 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4745** | **50.066** | **.99892** | **21.026** | **.52084** | **.48452** | F **5.5995** | **.50070** | **.99614** | **1.0020** | **.07572** | **.98632** |
| Stddev | .0289 | .007 | .00429 | .004 | .00045 | .00341 | .0923 | .00278 | .00446 | .0047 | .00322 | .00516 |
| %RSD | 1.1670 | .01489 | .42965 | .01958 | .08694 | .70390 | 1.6483 | .55441 | .44809 | .46936 | 4.2468 | .52353 |
| #1 | 2.4949 | 50.071 | .99588 | 21.029 | .52052 | .48211 | 5.6648 | .49874 | .99298 | .99864 | .07799 | .98267 |
| #2 | 2.4541 | 50.060 | 1.0020 | 21.023 | .52116 | .48693 | 5.5343 | .50266 | .99930 | 1.0053 | .07345 | .98997 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97386** | **4.9534** | **.97741** | **.48494** | **.00149** | **.50755** | **.96865** | **.01992** | **.50670** | **.54043** | **.49441** |
| Stddev | .01314 | .0221 | .00790 | .00098 | .00093 | .00147 | .00536 | .00274 | .00083 | .00063 | .00277 |
| %RSD | 1.3493 | .44653 | .80779 | .20165 | 62.557 | .29055 | .55343 | 13.739 | .16317 | .11664 | .55964 |
| #1 | .96457 | 4.9690 | .97183 | .48563 | .00215 | .50651 | .96486 | .02186 | .50729 | .53998 | .49637 |
| #2 | .98315 | 4.9377 | .98300 | .48424 | .00083 | .50860 | .97244 | .01799 | .50612 | .54087 | .49245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6154.0** | **78451.** | **5592.1** |
| Stddev | 6.8 | 298. | 9.7 |
| %RSD | .10975 | .37975 | .17263 |
| #1 | 6149.2 | 78240. | 5585.3 |
| #2 | 6158.7 | 78662. | 5598.9 |

Sample Name: CCB Acquired: 5/14/2013 15:33:09 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **-.00034** | **-.00123** | F **-.00417** | **.00048** | **.00001** | **-.00176** | **-.00126** | **.00006** | **.00039** | **-.00005** |
| Stddev | .00025 | .00047 | .00080 | .00050 | .00023 | .00007 | .00164 | .00074 | .00001 | .00009 | .00009 |
| %RSD | 67.331 | 137.40 | 64.789 | 11.968 | 47.994 | 645.51 | 93.127 | 58.616 | 14.366 | 22.360 | 161.88 |
| #1 | -.00019 | -.00001 | -.00179 | -.00381 | .00064 | .00006 | -.00060 | -.00074 | .00005 | .00033 | .00001 |
| #2 | -.00054 | -.00068 | -.00067 | -.00452 | .00032 | -.00004 | -.00291 | -.00179 | .00006 | .00045 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00000** | **.00185** | **.13841** | **.00162** | **-.00264** | **-.00003** | **-.00017** | F **.61627** | **.00004** | F **.01678** | **.00123** |
| Stddev | .00070 | .00082 | .03422 | .00049 | .00145 | .00005 | .00013 | .01661 | .00012 | .00061 | .00176 |
| %RSD | 16030. | 44.265 | 24.723 | 30.176 | 55.105 | 146.65 | 80.391 | 2.6952 | 269.84 | 3.6286 | 142.64 |
| #1 | -.00050 | .00127 | .16261 | .00196 | -.00367 | .00000 | -.00007 | .62802 | .00013 | .01721 | -.00001 |
| #2 | .00049 | .00243 | .11421 | .00127 | -.00161 | -.00007 | -.00026 | .60453 | -.00004 | .01635 | .00247 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | .10000 | | .01000 | |
| Low Limit | | | | | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04404** | **-.00229** | **-.00059** | **-.00937** | **-.00039** | **-.00003** | **.00127** | **-.00023** | **-.00055** | **.01336** | **.00035** |
| Stddev | .00283 | .00040 | .00027 | .00431 | .00067 | .00007 | .00284 | .00013 | .00029 | .02227 | .00040 |
| %RSD | 6.4287 | 17.392 | 44.799 | 45.965 | 171.62 | 245.19 | 223.43 | 55.792 | 52.088 | 166.73 | 115.97 |
| #1 | .04605 | -.00201 | -.00041 | -.00632 | -.00087 | .00002 | .00328 | -.00031 | -.00035 | -.00239 | .00006 |
| #2 | .04204 | -.00258 | -.00078 | -.01242 | .00008 | -.00008 | -.00074 | -.00014 | -.00076 | .02910 | .00063 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00190** | **.00003** |
| Stddev | .00005 | .00240 |
| %RSD | 2.4523 | 9345.7 |
| #1 | .00186 | .00172 |
| #2 | .00193 | -.00167 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6137.6** | **80787.** | **5530.2** |
| Stddev | 11.7 | 180. | 11.9 |
| %RSD | .19039 | .22335 | .21441 |
| #1 | 6129.3 | 80659. | 5538.6 |
| #2 | 6145.8 | 80914. | 5521.8 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 15:35:39 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01026** | **.09930** | **.01490** | **.09185** | **.01056** | **.00098** | **.10321** | **.20375** | **.00532** | **.01096** | **.01022** |
| Stddev | .00034 | .00003 | .00225 | .00029 | .00006 | .00007 | .00042 | .00533 | .00010 | .00022 | .00005 |
| %RSD | 3.3205 | .03520 | 15.079 | .31594 | .60505 | 7.2062 | .40632 | 2.6155 | 1.9016 | 2.0326 | .52755 |
| #1 | .01002 | .09928 | .01331 | .09206 | .01051 | .00093 | .10291 | .19999 | .00525 | .01080 | .01026 |
| #2 | .01050 | .09933 | .01649 | .09165 | .01060 | .00103 | .10350 | .20752 | .00539 | .01112 | .01019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01523** | **.10294** | **3.1987** | W **.01277** | **.21525** | **.01074** | **.01950** | F **1.5650** | **.04193** | **2.9246** | W **.01087** |
| Stddev | .00012 | .00269 | .0276 | .00019 | .00046 | .00011 | .00025 | .0132 | .00029 | .0111 | .00019 |
| %RSD | .78262 | 2.6127 | .86235 | 1.5191 | .21224 | 1.0115 | 1.2702 | .84502 | .68782 | .37841 | 1.7115 |
| #1 | .01515 | .10484 | 3.1792 | .01291 | .21492 | .01082 | .01933 | 1.5743 | .04213 | 2.9324 | .01100 |
| #2 | .01532 | .10104 | 3.2182 | .01263 | .21557 | .01066 | .01968 | 1.5556 | .04172 | 2.9168 | .01074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | 1.0000 | | | .00900 |
| Range | | | | 20.000% | | | | 30.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02690** | **.00809** | F **.00972** | **.50275** | **.10062** | **.00987** | **.01762** | **.00986** | **.01475** | W **.07567** | **.00988** |
| Stddev | .00012 | .00122 | .00207 | .01003 | .00035 | .00018 | .00068 | .00007 | .00022 | .00754 | .00007 |
| %RSD | .44770 | 15.102 | 21.348 | 1.9951 | .34871 | 1.8542 | 3.8759 | .75418 | 1.5250 | 9.9647 | .71745 |
| #1 | .02682 | .00723 | .01119 | .49566 | .10037 | .01000 | .01714 | .00991 | .01459 | .07034 | .00983 |
| #2 | .02699 | .00896 | .00825 | .50984 | .10087 | .00974 | .01811 | .00981 | .01491 | .08100 | .00993 |
| Check ? | None | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | -30.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02431** | **.01490** |
| Stddev | .00053 | .00159 |
| %RSD | 2.1854 | 10.667 |
| #1 | .02393 | .01602 |
| #2 | .02468 | .01377 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6234.5** | **81479.** | **5652.6** |
| Stddev | 18.7 | 242. | 13.6 |
| %RSD | .30056 | .29710 | .24143 |
| #1 | 6247.7 | 81307. | 5643.0 |
| #2 | 6221.2 | 81650. | 5662.3 |

Sample Name: MB 280-173568/1-A Acquired: 5/14/2013 15:38:04 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00040** | **.01274** | **.00046** | F **-.00527** | **.00037** | **-.00008** | **-.00145** | **.03199** | **.00000** |
| Stddev | .00028 | .00009 | .00480 | .00090 | .00008 | .00006 | .00150 | .00386 | .00014 |
| %RSD | 69.244 | .68293 | 1045.4 | 16.969 | 21.952 | 68.885 | 103.62 | 12.081 | 7719.4 |
| #1 | -.00021 | .01267 | -.00293 | -.00464 | .00043 | -.00013 | -.00251 | .03472 | -.00010 |
| #2 | -.00060 | .01280 | .00385 | -.00591 | .00031 | -.00004 | -.00039 | .02926 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | | | | | |
| Low Limit | | | | -.00343 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00001** | **-.00000** | W **.02240** | **.06634** | **-.00011** | **.00989** | W **.00051** | **-.00011** |
| Stddev | .00022 | .00014 | .00025 | .00301 | .04863 | .00009 | .00119 | .00011 | .00010 |
| %RSD | 48.435 | 1558.6 | 5872.4 | 13.448 | 73.310 | 81.229 | 11.999 | 21.423 | 89.436 |
| #1 | .00030 | .00011 | .00017 | .02453 | .03195 | -.00017 | .00905 | .00058 | -.00004 |
| #2 | .00062 | -.00009 | -.00018 | .02027 | .10072 | -.00005 | .01073 | .00043 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | .02200 | | | | .00025 | |
| Low Limit | | | | -.02200 | | | | -.00025 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.53078** | **.00029** | F **.18225** | **.00103** | **.03702** | **-.00095** | **-.00266** | **.03280** | **-.00044** |
| Stddev | .01767 | .00012 | .00208 | .00177 | .00294 | .00228 | .00070 | .00791 | .00053 |
| %RSD | 3.3293 | 40.405 | 1.1410 | 172.34 | 7.9381 | 240.55 | 26.410 | 24.115 | 121.14 |
| #1 | .54327 | .00020 | .18372 | -.00023 | .03909 | .00067 | -.00315 | .03839 | -.00006 |
| #2 | .51828 | .00037 | .18078 | .00228 | .03494 | -.00257 | -.00216 | .02720 | -.00081 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .20152 | | .02970 | | | | | | |
| Low Limit | -.20152 | | -.02970 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **-.00065** | **-.00012** | **.00021** | W **.02527** | **-.00015** | **.00370** | **-.00073** |
| Stddev | .00001 | .00275 | .00035 | .00013 | .05322 | .00009 | .00031 | .00119 |
| %RSD | 11.968 | 421.46 | 278.53 | 62.533 | 210.61 | 61.284 | 8.3697 | 163.80 |
| #1 | .00005 | .00129 | -.00037 | .00030 | -.01236 | -.00008 | .00348 | -.00157 |
| #2 | .00004 | -.00260 | .00012 | .00012 | .06291 | -.00021 | .00392 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01610 | | | |
| Low Limit | | | | | -.01610 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6297.8** | **82222.** | **5706.4** |
| Stddev | 6.3 | 64. | 32.6 |
| %RSD | .10046 | .07798 | .57055 |
| #1 | 6302.3 | 82177. | 5683.4 |
| #2 | 6293.3 | 82267. | 5729.4 |

Sample Name: LCS 280-173568/2-A Acquired: 5/14/2013 15:40:34 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05430** | **1.8764** | **1.0258** | **1.0097** | **2.0266** | **.04870** | **2.0530** | **49.721** | **.10491** |
| Stddev | .00088 | .0004 | .0019 | .0026 | .0024 | .00010 | .0006 | .048 | .00022 |
| %RSD | 1.6251 | .02124 | .18210 | .25806 | .11605 | .21449 | .02896 | .09719 | .20593 |
| #1 | .05368 | 1.8761 | 1.0271 | 1.0079 | 2.0283 | .04863 | 2.0534 | 49.755 | .10475 |
| #2 | .05493 | 1.8767 | 1.0244 | 1.0116 | 2.0250 | .04877 | 2.0526 | 49.687 | .10506 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50308** | **.20003** | **.24571** | **.98381** | **50.989** | **1.0095** | **51.801** | **.50801** | **.98018** |
| Stddev | .00030 | .00045 | .00421 | .00987 | .115 | .0004 | 1.019 | .01001 | .00139 |
| %RSD | .05957 | .22283 | 1.7145 | 1.0030 | .22473 | .04273 | 1.9662 | 1.9695 | .14189 |
| #1 | .50329 | .19972 | .24273 | .99079 | 51.070 | 1.0099 | 51.081 | .50094 | .97920 |
| #2 | .50286 | .20035 | .24869 | .97683 | 50.908 | 1.0092 | 52.521 | .51509 | .98117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.416** | **.49684** | **10.394** | **.50504** | **.00745** | **.50753** | **2.0223** | **10.062** | **1.9670** |
| Stddev | .054 | .00002 | .014 | .00100 | .00133 | .00174 | .0033 | .000 | .0061 |
| %RSD | .10439 | .00492 | .13347 | .19763 | 17.875 | .34333 | .16104 | .00315 | .31044 |
| #1 | 51.454 | .49685 | 10.384 | .50574 | .00651 | .50630 | 2.0246 | 10.062 | 1.9627 |
| #2 | 51.379 | .49682 | 10.403 | .50433 | .00839 | .50876 | 2.0200 | 10.062 | 1.9713 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98075** | **1.0183** | **.99683** | **1.9537** | **2.0614** | **.50490** | **.52363** | **.48480** |
| Stddev | .00246 | .0197 | .02051 | .0047 | .0339 | .00895 | .01152 | .00268 |
| %RSD | .25075 | 1.9365 | 2.0572 | .24096 | 1.6430 | 1.7717 | 2.1994 | .55359 |
| #1 | .98249 | 1.0044 | .98233 | 1.9504 | 2.0375 | .49858 | .51549 | .48290 |
| #2 | .97902 | 1.0323 | 1.0113 | 1.9571 | 2.0854 | .51123 | .53178 | .48670 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6089.7** | **80599.** | **5674.1** |
| Stddev | 31.8 | 1015. | 26.2 |
| %RSD | .52224 | 1.2592 | .46160 |
| #1 | 6112.2 | 81316. | 5655.5 |
| #2 | 6067.3 | 79881. | 5692.6 |

Sample Name: 280-41983-A-9-A Acquired: 5/14/2013 15:42:47 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **.00574** | **-.00184** | **.44835** | **.07939** | **-.00004** | **-.00457** | **224.83** | **.00369** |
| Stddev | .00044 | .00009 | .00130 | .00187 | .00044 | .00009 | .00230 | .01 | .00008 |
| %RSD | 41.200 | 1.5590 | 70.524 | .41609 | .54844 | 253.32 | 50.453 | .00437 | 2.0972 |
| #1 | -.00076 | .00568 | -.00092 | .44703 | .07908 | .00003 | -.00294 | 224.82 | .00363 |
| #2 | -.00139 | .00580 | -.00276 | .44967 | .07970 | -.00010 | -.00620 | 224.83 | .00374 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **.00054** | **.00248** | **.01745** | **9.0529** | **.06844** | **37.130** | **.04662** | **.00134** |
| Stddev | .00013 | .00008 | .00035 | .00085 | .0370 | .00058 | .033 | .00011 | .00003 |
| %RSD | 19.814 | 14.520 | 14.018 | 4.8873 | .40885 | .85403 | .08823 | .22852 | 2.3456 |
| #1 | .00058 | .00048 | .00272 | .01685 | 9.0267 | .06803 | 37.153 | .04669 | .00136 |
| #2 | .00077 | .00059 | .00223 | .01806 | 9.0790 | .06886 | 37.107 | .04654 | .00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **277.57** | **.00268** | **.20182** | **.00250** | **90.798** | **-.00144** | **.00383** | **9.5851** | **-.00084** |
| Stddev | .32 | .00035 | .00074 | .00055 | .123 | .00048 | .00371 | .0224 | .00122 |
| %RSD | .11448 | 13.090 | .36907 | 22.007 | .13538 | 33.615 | 96.815 | .23383 | 145.91 |
| #1 | 277.80 | .00243 | .20235 | .00289 | 90.711 | -.00110 | .00121 | 9.5692 | -.00170 |
| #2 | 277.35 | .00293 | .20130 | .00212 | 90.885 | -.00178 | .00645 | 9.6009 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2448** | **-.00027** | **.00103** | **.00074** | **.02482** | **.00065** | **.02215** | **.00125** |
| Stddev | .0014 | .00057 | .00041 | .00067 | .00247 | .00014 | .00045 | .00007 |
| %RSD | .10986 | 208.55 | 39.574 | 90.327 | 9.9528 | 20.650 | 2.0371 | 5.8176 |
| #1 | 1.2458 | -.00067 | .00074 | .00122 | .02656 | .00075 | .02247 | .00130 |
| #2 | 1.2438 | .00013 | .00132 | .00027 | .02307 | .00056 | .02183 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5828.3** | **77509.** | **5557.1** |
| Stddev | 3.9 | 36. | 13.0 |
| %RSD | .06706 | .04661 | .23344 |
| #1 | 5825.5 | 77535. | 5548.0 |
| #2 | 5831.1 | 77483. | 5566.3 |

Sample Name: sd 280-41983-A-9-A@5 Acquired: 5/14/2013 15:45:17 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **.00163** | **-.00144** | **.08238** | **.01552** | **.00003** | **-.00269** | **44.114** | **.00065** |
| Stddev | .00031 | .00005 | .00198 | .00116 | .00003 | .00003 | .00002 | .144 | .00023 |
| %RSD | 204.51 | 3.2670 | 137.71 | 1.4094 | .16109 | 98.282 | .87661 | .32712 | 34.830 |
| #1 | -.00037 | .00167 | -.00004 | .08320 | .01551 | .00006 | -.00271 | 44.216 | .00081 |
| #2 | .00007 | .00160 | -.00284 | .08156 | .01554 | .00001 | -.00267 | 44.012 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00012** | **.00086** | **.01854** | **1.8114** | **.01273** | **7.4321** | **.00939** | **.00014** |
| Stddev | .00017 | .00016 | .00044 | .00010 | .0179 | .00034 | .0164 | .00013 | .00018 |
| %RSD | 52.341 | 131.90 | 51.146 | .55430 | .98575 | 2.6986 | .22043 | 1.3953 | 131.98 |
| #1 | .00044 | .00001 | .00117 | .01861 | 1.7988 | .01249 | 7.4205 | .00930 | .00027 |
| #2 | .00020 | .00024 | .00055 | .01847 | 1.8240 | .01297 | 7.4437 | .00949 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.083** | **.00051** | **.04301** | **.00170** | **16.996** | **.00019** | **.00055** | **1.8281** | **-.00050** |
| Stddev | .409 | .00012 | .00175 | .00078 | .007 | .00115 | .00026 | .0192 | .00022 |
| %RSD | .74176 | 24.172 | 4.0607 | 45.589 | .04092 | 600.23 | 46.451 | 1.0475 | 43.804 |
| #1 | 54.794 | .00042 | .04425 | .00225 | 16.991 | .00100 | .00037 | 1.8417 | -.00065 |
| #2 | 55.372 | .00060 | .04178 | .00115 | 17.001 | -.00062 | .00073 | 1.8146 | -.00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24616** | **.00034** | **-.00009** | **.00027** | **.00691** | **.00043** | **.00793** | **-.00077** |
| Stddev | .00101 | .00087 | .00024 | .00055 | .01832 | .00006 | .00037 | .00226 |
| %RSD | .41160 | 253.49 | 280.06 | 206.69 | 265.20 | 13.940 | 4.7188 | 294.69 |
| #1 | .24688 | -.00027 | -.00026 | -.00012 | -.00605 | .00039 | .00819 | -.00236 |
| #2 | .24544 | .00096 | .00008 | .00066 | .01986 | .00047 | .00766 | .00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6048.6** | **80115.** | **5663.9** |
| Stddev | 12.4 | 38. | 39.6 |
| %RSD | .20467 | .04785 | .69997 |
| #1 | 6039.9 | 80142. | 5635.8 |
| #2 | 6057.4 | 80088. | 5691.9 |

Sample Name: 280-41983-A-9-B MS Acquired: 5/14/2013 15:47:41 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05628** | **1.8143** | **1.0465** | **1.4597** | **2.0851** | **.04847** | **2.0685** | **265.17** | **.10900** |
| Stddev | .00037 | .0012 | .0024 | .0018 | .0022 | .00032 | .0053 | 1.30 | .00023 |
| %RSD | .65713 | .06802 | .22845 | .12008 | .10404 | .66046 | .25435 | .49054 | .20751 |
| #1 | .05654 | 1.8135 | 1.0448 | 1.4610 | 2.0836 | .04869 | 2.0722 | 264.25 | .10916 |
| #2 | .05602 | 1.8152 | 1.0481 | 1.4585 | 2.0866 | .04824 | 2.0648 | 266.09 | .10884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49357** | **.19821** | **.25294** | **.98757** | **60.466** | **1.0785** | **86.801** | **.54799** | **.99042** |
| Stddev | .00047 | .00036 | .00087 | .00144 | .219 | .0032 | .134 | .00154 | .00134 |
| %RSD | .09530 | .18092 | .34275 | .14536 | .36162 | .29729 | .15400 | .28092 | .13520 |
| #1 | .49390 | .19796 | .25233 | .98656 | 60.312 | 1.0763 | 86.706 | .54690 | .99137 |
| #2 | .49323 | .19846 | .25355 | .98859 | 60.621 | 1.0808 | 86.895 | .54908 | .98947 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **324.07** | **.48735** | **10.745** | **.49082** | **89.159** | **.51620** | **2.0605** | **19.598** | **1.9577** |
| Stddev | .81 | .00016 | .010 | .00118 | .024 | .00193 | .0036 | .066 | .0026 |
| %RSD | .24959 | .03333 | .09679 | .23974 | .02671 | .37367 | .17310 | .33847 | .13401 |
| #1 | 323.50 | .48747 | 10.752 | .49165 | 89.176 | .51484 | 2.0630 | 19.551 | 1.9596 |
| #2 | 324.64 | .48724 | 10.737 | .48999 | 89.142 | .51757 | 2.0580 | 19.645 | 1.9558 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1976** | **1.0148** | **1.0074** | **1.8383** | **2.0862** | **.50975** | **.53604** | **.48999** |
| Stddev | .0011 | .0045 | .0018 | .0034 | .0209 | .00115 | .00028 | .00107 |
| %RSD | .05095 | .43881 | .17886 | .18485 | 1.0035 | .22476 | .05234 | .21938 |
| #1 | 2.1969 | 1.0117 | 1.0061 | 1.8407 | 2.0714 | .50894 | .53585 | .49075 |
| #2 | 2.1984 | 1.0180 | 1.0087 | 1.8359 | 2.1010 | .51056 | .53624 | .48923 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5728.5** | **75869.** | **5481.6** |
| Stddev | 2.5 | 54. | 9.2 |
| %RSD | .04424 | .07139 | .16696 |
| #1 | 5730.3 | 75831. | 5488.0 |
| #2 | 5726.7 | 75907. | 5475.1 |

Sample Name: 280-41983-A-9-C MSD Acquired: 5/14/2013 15:50:04 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05699** | **1.8474** | **1.0689** | **1.4923** | **2.1456** | **.04959** | **2.1077** | **270.93** | **.11150** |
| Stddev | .00024 | .0039 | .0014 | .0001 | .0033 | .00006 | .0080 | 1.66 | .00004 |
| %RSD | .41373 | .21229 | .13093 | .00851 | .15555 | .11336 | .38166 | .61226 | .03335 |
| #1 | .05715 | 1.8447 | 1.0680 | 1.4923 | 2.1433 | .04955 | 2.1020 | 269.76 | .11148 |
| #2 | .05682 | 1.8502 | 1.0699 | 1.4924 | 2.1480 | .04963 | 2.1134 | 272.11 | .11153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50479** | **.20313** | **.25888** | **.99963** | **61.943** | **1.1078** | **88.524** | **.56077** | **1.0149** |
| Stddev | .00104 | .00014 | .00052 | .00124 | .088 | .0003 | .298 | .00197 | .0000 |
| %RSD | .20555 | .06664 | .20181 | .12412 | .14247 | .02721 | .33706 | .35080 | .00041 |
| #1 | .50552 | .20323 | .25925 | .99876 | 61.881 | 1.1076 | 88.735 | .56216 | 1.0149 |
| #2 | .50406 | .20304 | .25851 | 1.0005 | 62.006 | 1.1080 | 88.313 | .55938 | 1.0149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **331.17** | **.49719** | **10.957** | **.50032** | **90.826** | **.52825** | **2.0990** | **19.985** | **2.0008** |
| Stddev | .29 | .00062 | .007 | .00151 | .046 | .00269 | .0015 | .131 | .0009 |
| %RSD | .08703 | .12518 | .06484 | .30241 | .05062 | .50887 | .07395 | .65344 | .04346 |
| #1 | 330.97 | .49763 | 10.962 | .49925 | 90.794 | .53015 | 2.1001 | 19.893 | 2.0014 |
| #2 | 331.38 | .49675 | 10.952 | .50139 | 90.859 | .52634 | 2.0979 | 20.078 | 2.0002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2573** | **1.0453** | **1.0336** | **1.8710** | **2.1455** | **.52196** | **.54351** | **.49685** |
| Stddev | .0007 | .0022 | .0008 | .0003 | .0187 | .00196 | .00163 | .00239 |
| %RSD | .02942 | .21447 | .07252 | .01356 | .87060 | .37472 | .30004 | .48182 |
| #1 | 2.2569 | 1.0469 | 1.0341 | 1.8708 | 2.1323 | .52335 | .54466 | .49516 |
| #2 | 2.2578 | 1.0437 | 1.0330 | 1.8711 | 2.1587 | .52058 | .54235 | .49855 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5733.7** | **76020.** | **5479.5** |
| Stddev | 7.6 | 104. | 11.0 |
| %RSD | .13219 | .13660 | .20000 |
| #1 | 5728.3 | 75946. | 5471.7 |
| #2 | 5739.0 | 76093. | 5487.2 |

Sample Name: 280-41983-A-10-A Acquired: 5/14/2013 15:52:27 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00043** | **.00557** | **-.00266** | **.38871** | **.07248** | **-.00003** | **-.00252** | **177.75** | **.00193** |
| Stddev | .00026 | .00010 | .00007 | .00174 | .00007 | .00000 | .00074 | .57 | .00011 |
| %RSD | 61.149 | 1.7252 | 2.5343 | .44825 | .09023 | 17.187 | 29.255 | .31883 | 5.5253 |
| #1 | -.00024 | .00564 | -.00261 | .38994 | .07253 | -.00003 | -.00200 | 178.15 | .00200 |
| #2 | -.00062 | .00550 | -.00271 | .38748 | .07244 | -.00003 | -.00304 | 177.35 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00030** | **.00204** | **.01788** | **8.6390** | **.05442** | **30.279** | **.03286** | **.00117** |
| Stddev | .00000 | .00009 | .00006 | .00102 | .0911 | .00096 | .039 | .00003 | .00024 |
| %RSD | .57428 | 31.303 | 3.1263 | 5.7210 | 1.0548 | 1.7610 | .12828 | .09199 | 20.549 |
| #1 | .00081 | .00023 | .00200 | .01715 | 8.5746 | .05374 | 30.251 | .03288 | .00100 |
| #2 | .00081 | .00037 | .00209 | .01860 | 8.7034 | .05510 | 30.306 | .03283 | .00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **238.72** | **.00376** | **.21989** | **.00190** | **77.734** | **-.00088** | **.00306** | **9.2527** | **-.00018** |
| Stddev | .57 | .00000 | .00064 | .00020 | .002 | .00157 | .00039 | .0015 | .00023 |
| %RSD | .23763 | .07958 | .28886 | 10.633 | .00285 | 178.80 | 12.723 | .01652 | 132.56 |
| #1 | 239.12 | .00376 | .22034 | .00176 | 77.735 | -.00199 | .00279 | 9.2537 | -.00001 |
| #2 | 238.32 | .00376 | .21944 | .00204 | 77.732 | .00023 | .00334 | 9.2516 | -.00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0324** | **-.00055** | **.00068** | **.00037** | **.02851** | **.00071** | **.01425** | **-.00028** |
| Stddev | .0051 | .00126 | .00019 | .00022 | .03555 | .00007 | .00051 | .00081 |
| %RSD | .49119 | 229.39 | 27.882 | 57.546 | 124.70 | 9.6055 | 3.5989 | 285.86 |
| #1 | 1.0360 | .00034 | .00082 | .00022 | .00337 | .00067 | .01462 | .00029 |
| #2 | 1.0288 | -.00144 | .00055 | .00053 | .05365 | .00076 | .01389 | -.00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5822.6** | **77517.** | **5629.7** |
| Stddev | 21.8 | 228. | 4.0 |
| %RSD | .37457 | .29418 | .07075 |
| #1 | 5807.2 | 77356. | 5626.9 |
| #2 | 5838.1 | 77679. | 5632.6 |

Sample Name: 280-41983-A-11-A Acquired: 5/14/2013 15:54:50 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00395** | **-.00090** | **.46588** | **.09431** | **-.00010** | **-.00240** | **205.30** | **.05881** |
| Stddev | .00045 | .00003 | .00081 | .00097 | .00016 | .00002 | .00071 | .92 | .00003 |
| %RSD | 764.14 | .76141 | 89.923 | .20716 | .16571 | 14.653 | 29.550 | .44765 | .04359 |
| #1 | .00038 | .00393 | -.00147 | .46520 | .09420 | -.00009 | -.00190 | 205.95 | .05880 |
| #2 | -.00026 | .00397 | -.00033 | .46656 | .09442 | -.00011 | -.00290 | 204.65 | .05883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **.00044** | **.00224** | **.01394** | **9.9639** | **.05639** | **34.923** | **.00931** | **.00087** |
| Stddev | .00018 | .00014 | .00004 | .00174 | .0598 | .00112 | .048 | .00000 | .00010 |
| %RSD | 24.567 | 31.760 | 1.8926 | 12.505 | .60010 | 1.9903 | .13866 | .03900 | 11.849 |
| #1 | .00088 | .00034 | .00221 | .01517 | 10.006 | .05559 | 34.889 | .00931 | .00094 |
| #2 | .00062 | .00054 | .00227 | .01270 | 9.9217 | .05718 | 34.957 | .00931 | .00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **252.15** | **.00183** | **.21997** | **.00076** | **93.306** | **.00081** | **.00404** | **8.3524** | **-.00085** |
| Stddev | 1.74 | .00012 | .00211 | .00019 | .204 | .00003 | .00555 | .0031 | .00007 |
| %RSD | .69055 | 6.2935 | .95936 | 24.865 | .21905 | 3.6982 | 137.32 | .03758 | 7.6930 |
| #1 | 253.38 | .00191 | .22146 | .00063 | 93.450 | .00083 | .00797 | 8.3502 | -.00081 |
| #2 | 250.92 | .00175 | .21848 | .00090 | 93.161 | .00078 | .00012 | 8.3546 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1806** | **-.00075** | **.00072** | **.00101** | **.03629** | **.00124** | **.43679** | **-.00128** |
| Stddev | .0075 | .00120 | .00017 | .00077 | .02387 | .00009 | .00037 | .00123 |
| %RSD | .63700 | 160.87 | 23.149 | 75.860 | 65.769 | 7.4829 | .08364 | 96.073 |
| #1 | 1.1859 | .00010 | .00084 | .00047 | .01942 | .00118 | .43705 | -.00041 |
| #2 | 1.1753 | -.00160 | .00060 | .00155 | .05317 | .00131 | .43653 | -.00216 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5779.4** | **76689.** | **5598.2** |
| Stddev | 2.0 | 89. | 32.2 |
| %RSD | .03513 | .11638 | .57506 |
| #1 | 5778.0 | 76752. | 5575.5 |
| #2 | 5780.9 | 76625. | 5621.0 |

Sample Name: 280-41786-H-1-B Acquired: 5/14/2013 15:57:13 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172701

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00051** | **21.734** | k **.01325** | **.15552** | **.19424** | k **.00169** | kW **-.01782** | **347.70** | k **.00112** |
| Stddev | .00070 | .006 | .00063 | .00050 | .00012 | .00004 | .00323 | 5.42 | .00010 |
| %RSD | 137.65 | .02861 | 4.7331 | .32406 | .06041 | 2.6370 | 18.116 | 1.5589 | 8.5555 |
| #1 | k .00001 | 21.739 | k .01370 | .15587 | .19415 | k .00166 | k -.02011 | 351.53 | k .00105 |
| #2 | k .00101 | 21.730 | k .01281 | .15516 | .19432 | k .00172 | k -.01554 | 343.87 | k .00119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.02409** | **.06335** | k **.04102** | k **42.218** | **10.640** | **.05528** | **151.78** | **6.0664** | **.00467** |
| Stddev | .00005 | .00023 | .00042 | .103 | .032 | .00076 | .01 | .0699 | .00027 |
| %RSD | .20462 | .36528 | 1.0252 | .24447 | .30092 | 1.3831 | .00926 | 1.1524 | 5.8338 |
| #1 | k .02412 | .06318 | k .04072 | k 42.145 | 10.618 | .05582 | 151.77 | 6.0169 | .00448 |
| #2 | k .02405 | .06351 | k .04132 | k 42.291 | 10.663 | .05474 | 151.79 | 6.1158 | .00486 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.389** | **.06996** | **1.0101** | k **.05287** | **228.84** | k **-.00350** | k **.00693** | **38.632** | k **-.00056** |
| Stddev | .216 | .00027 | .0004 | .00145 | .11 | .00104 | .00219 | .002 | .00016 |
| %RSD | .76159 | .38383 | .03680 | 2.7368 | .04827 | 29.586 | 31.638 | .00525 | 29.459 |
| #1 | 28.236 | .06977 | 1.0104 | k .05184 | 228.92 | k -.00424 | k .00538 | 38.633 | k -.00044 |
| #2 | 28.542 | .07015 | 1.0099 | k .05389 | 228.76 | k -.00277 | k .00848 | 38.630 | k -.00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65455** | k **.04716** | k **.26432** | k **-.00532** | k **-.00363** | k **.03699** | **.09257** | k **.00370** |
| Stddev | .00019 | .00186 | .00116 | .00025 | .00645 | .00068 | .00054 | .00247 |
| %RSD | .02934 | 3.9411 | .44030 | 4.6466 | 177.73 | 1.8447 | .57912 | 66.675 |
| #1 | .65469 | k .04585 | k .26350 | k -.00514 | k -.00819 | k .03651 | .09220 | k .00544 |
| #2 | .65442 | k .04848 | k .26514 | k -.00549 | k .00093 | k .03748 | .09295 | k .00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5710.5** | **76159.** | **5587.6** |
| Stddev | 4.1 | 96. | 17.7 |
| %RSD | .07095 | .12612 | .31673 |
| #1 | 5713.4 | 76091. | 5575.0 |
| #2 | 5707.6 | 76227. | 5600.1 |

Sample Name: 280-41786-H-6-B Acquired: 5/14/2013 15:59:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172701

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **61.606** | **.05900** | **.31280** | **.83548** | **.00488** | W **-.01361** | **447.86** | **.00219** |
| Stddev | .00005 | .312 | .00029 | .00014 | .00457 | .00004 | .00025 | 1.70 | .00004 |
| %RSD | 14.392 | .50632 | .48872 | .04362 | .54695 | .83618 | 1.8656 | .37966 | 1.7927 |
| #1 | .00038 | 61.385 | .05921 | .31270 | .83225 | .00485 | -.01343 | 449.06 | .00217 |
| #2 | .00031 | 61.826 | .05880 | .31289 | .83871 | .00491 | -.01379 | 446.65 | .00222 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06638** | **.20668** | **.14200** | **150.47** | **23.365** | **.10905** | **180.05** | **5.7336** | **.01527** |
| Stddev | .00034 | .00056 | .00012 | .44 | .033 | .00246 | 3.18 | .0064 | .00017 |
| %RSD | .51308 | .27319 | .08787 | .29185 | .14238 | 2.2545 | 1.7687 | .11175 | 1.0912 |
| #1 | .06614 | .20628 | .14192 | 150.16 | 23.341 | .11078 | 177.80 | 5.7291 | .01516 |
| #2 | .06662 | .20708 | .14209 | 150.78 | 23.388 | .10731 | 182.30 | 5.7382 | .01539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.670** | **.23022** | **3.5768** | **.10081** | **133.69** | **-.00104** | **.00056** | W **53.171** | **.00334** |
| Stddev | .715 | .00052 | .0085 | .00174 | .30 | .00320 | .00290 | .066 | .00036 |
| %RSD | 2.6821 | .22784 | .23790 | 1.7214 | .22395 | 307.69 | 513.75 | .12384 | 10.887 |
| #1 | 26.164 | .22985 | 3.5708 | .10204 | 133.48 | -.00331 | .00261 | 53.124 | .00308 |
| #2 | 27.176 | .23059 | 3.5828 | .09959 | 133.91 | .00122 | -.00149 | 53.217 | .00359 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 50.000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7557** | **.05253** | **.54392** | **-.00698** | **-.02332** | **.11428** | **.27339** | **.01594** |
| Stddev | .0060 | .00216 | .00012 | .00039 | .01566 | .00053 | .00022 | .00083 |
| %RSD | .33946 | 4.1046 | .02166 | 5.5957 | 67.147 | .46245 | .08040 | 5.2074 |
| #1 | 1.7515 | .05101 | .54401 | -.00725 | -.01225 | .11466 | .27323 | .01652 |
| #2 | 1.7599 | .05406 | .54384 | -.00670 | -.03439 | .11391 | .27354 | .01535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5862.8** | **77740.** | **5843.5** |
| Stddev | 9.1 | 146. | 2.5 |
| %RSD | .15467 | .18775 | .04281 |
| #1 | 5869.2 | 77843. | 5845.3 |
| #2 | 5856.4 | 77637. | 5841.8 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 16:02:20 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00771** | **49.535** | **-.00279** | **-.00268** | **.00111** | **.00000** | **.99667** | **.03347** | **-.00083** | **.00237** | **.00027** | **.00135** | **50.185** |
| Stddev | .00014 | .247 | .00210 | .00113 | .00033 | .00000 | .00037 | .01948 | .00003 | .00010 | .00015 | .00024 | .074 |
| %RSD | 1.8117 | .49887 | 75.179 | 42.357 | 29.752 | 857.71 | .03737 | 58.197 | 3.6642 | 4.2510 | 54.520 | 18.027 | .14747 |
| #1 | .00761 | 49.360 | -.00427 | -.00188 | .00134 | -.00000 | .99694 | .04724 | -.00081 | .00244 | .00037 | .00152 | 50.237 |
| #2 | .00781 | 49.709 | -.00131 | -.00348 | .00087 | .00000 | .99641 | .01969 | -.00085 | .00229 | .00016 | .00118 | 50.132 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14029** | **.00066** | **-.00943** | **-.00049** | **-.00190** | **250.16** | **.00140** | **.00150** | **.00073** | **5.1039** | **.00110** | **-.00102** | **.04154** |
| Stddev | .03036 | .00120 | .00229 | .00003 | .00010 | .92 | .00022 | .00014 | .00110 | .0070 | .00205 | .00230 | .00094 |
| %RSD | 21.643 | 181.11 | 24.251 | 5.5599 | 5.5129 | .36893 | 15.757 | 9.2806 | 150.79 | .13774 | 187.08 | 226.10 | 2.2635 |
| #1 | .11882 | -.00019 | -.01105 | -.00047 | -.00197 | 249.51 | .00125 | .00160 | .00151 | 5.1088 | -.00035 | -.00264 | .04087 |
| #2 | .16175 | .00151 | -.00782 | -.00051 | -.00182 | 250.81 | .00156 | .00140 | -.00005 | 5.0989 | .00254 | .00061 | .04220 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.00035** | **5.0938** | **.00225** | **-.00102** | **10.020** | **-.00052** | **.00313** | **-.04070** |
| Stddev | .00033 | .00015 | .0092 | .00000 | .00025 | .025 | .00035 | .00044 | .00251 |
| %RSD | 74.686 | 43.352 | .18137 | .16466 | 24.160 | .24451 | 66.997 | 14.149 | 6.1627 |
| #1 | -.00068 | .00045 | 5.0872 | .00225 | -.00085 | 10.037 | -.00077 | .00281 | -.03892 |
| #2 | -.00021 | .00024 | 5.1003 | .00226 | -.00119 | 10.003 | -.00028 | .00344 | -.04247 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5983.5** | **78368.** | **5627.3** |
| Stddev | 12.8 | 164. | 14.3 |
| %RSD | .21404 | .20874 | .25360 |
| #1 | 5992.5 | 78484. | 5637.3 |
| #2 | 5974.4 | 78252. | 5617.2 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 16:04:42 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51465** | **.48633** | **1.0050** | **.49208** | **.49900** | **.48363** | **.00034** | **5.0197** | **.50415** | **.50831** | **.49564** | **.49660** | **2.4519** | **50.340** |
| Stddev | .00172 | .00064 | .0008 | .00126 | .00172 | .00132 | .00179 | .0050 | .00046 | .00082 | .00012 | .00096 | .0037 | .114 |
| %RSD | .33411 | .13214 | .08348 | .25616 | .34377 | .27241 | 526.91 | .10018 | .09079 | .16040 | .02382 | .19335 | .15260 | .22653 |
| #1 | .51587 | .48587 | 1.0056 | .49119 | .49779 | .48270 | .00160 | 5.0162 | .50382 | .50889 | .49573 | .49593 | 2.4493 | 50.259 |
| #2 | .51344 | .48678 | 1.0044 | .49297 | .50021 | .48456 | -.00092 | 5.0233 | .50447 | .50774 | .49556 | .49728 | 2.4546 | 50.421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0138** | **20.901** | **.51643** | **.48953** | **5.2521** | **.50580** | **.98892** | **1.0127** | **.01395** | **1.0030** | **.99387** | **4.9735** | **.99230** | **.48769** |
| Stddev | .0028 | .042 | .00138 | .00086 | .0179 | .00173 | .00426 | .0014 | .00415 | .0018 | .00181 | .0640 | .00206 | .00034 |
| %RSD | .27739 | .20317 | .26655 | .17613 | .34006 | .34289 | .43086 | .13304 | 29.722 | .18137 | .18177 | 1.2869 | .20809 | .07073 |
| #1 | 1.0118 | 20.931 | .51740 | .48892 | 5.2648 | .50457 | .98591 | 1.0118 | .01689 | 1.0017 | .99515 | 4.9282 | .99084 | .48744 |
| #2 | 1.0158 | 20.871 | .51546 | .49014 | 5.2395 | .50702 | .99193 | 1.0137 | .01102 | 1.0043 | .99259 | 5.0187 | .99376 | .48793 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00240** | **.50409** | **.98392** | **.03625** | **.50456** | **.53162** | **.49405** |
| Stddev | .00123 | .00067 | .00052 | .02651 | .00194 | .00002 | .00120 |
| %RSD | 51.225 | .13227 | .05243 | 73.133 | .38520 | .00302 | .24234 |
| #1 | .00153 | .50456 | .98429 | .05500 | .50594 | .53164 | .49321 |
| #2 | .00327 | .50362 | .98356 | .01751 | .50319 | .53161 | .49490 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6086.5** | **79463.** | **5514.2** |
| Stddev | 7.1 | 416. | 10.9 |
| %RSD | .11709 | .52300 | .19806 |
| #1 | 6081.4 | 79170. | 5521.9 |
| #2 | 6091.5 | 79757. | 5506.4 |

Sample Name: CCB Acquired: 5/14/2013 16:06:55 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **-.00037** | **.00052** | F **-.00429** | **.00033** | **.00005** | **-.00199** | **-.00581** | **-.00002** | **.00052** | **-.00005** |
| Stddev | .00038 | .00015 | .00367 | .00024 | .00025 | .00003 | .00205 | .00373 | .00018 | .00016 | .00015 |
| %RSD | 64.644 | 42.257 | 709.24 | 5.6768 | 77.684 | 47.659 | 103.07 | 64.143 | 859.69 | 30.555 | 279.00 |
| #1 | -.00032 | -.00048 | .00311 | -.00446 | .00050 | .00007 | -.00345 | -.00845 | -.00015 | .00063 | .00005 |
| #2 | -.00085 | -.00026 | -.00208 | -.00412 | .00015 | .00004 | -.00054 | -.00318 | .00010 | .00041 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **-.00056** | **.09902** | **-.00020** | **-.00257** | **-.00005** | **-.00015** | F **.35116** | **-.00024** | **-.00466** | **.00101** |
| Stddev | .00044 | .00031 | .04004 | .00179 | .00122 | .00005 | .00039 | .01289 | .00003 | .00034 | .00015 |
| %RSD | 731.84 | 54.491 | 40.439 | 875.89 | 47.350 | 102.72 | 251.37 | 3.6696 | 11.299 | 7.3976 | 15.096 |
| #1 | -.00025 | -.00035 | .07071 | -.00147 | -.00171 | -.00008 | -.00043 | .34204 | -.00026 | -.00490 | .00112 |
| #2 | .00037 | -.00078 | .12734 | .00106 | -.00343 | -.00001 | .00012 | .36027 | -.00022 | -.00442 | .00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01136** | **-.00167** | **-.00390** | **.02493** | **-.00073** | **.00004** | **-.00082** | W **-.00065** | **-.00121** | **.01718** | **.00033** |
| Stddev | .00130 | .00117 | .00017 | .00120 | .00000 | .00006 | .00018 | .00023 | .00049 | .00871 | .00035 |
| %RSD | 11.471 | 70.482 | 4.3619 | 4.8116 | .60122 | 152.47 | 21.738 | 34.935 | 40.363 | 50.718 | 106.65 |
| #1 | .01044 | -.00250 | -.00402 | .02578 | -.00073 | -.00000 | -.00069 | -.00081 | -.00087 | .01102 | .00057 |
| #2 | .01228 | -.00084 | -.00378 | .02409 | -.00073 | .00008 | -.00094 | -.00049 | -.00156 | .02334 | .00008 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00060 | | | |
| Low Limit | | | | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00292** | **.00038** |
| Stddev | .00012 | .00110 |
| %RSD | 3.9687 | 291.89 |
| #1 | .00300 | .00115 |
| #2 | .00284 | -.00040 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6073.2** | **79461.** | **5578.3** |
| Stddev | 8.3 | 336. | 33.6 |
| %RSD | .13689 | .42296 | .60179 |
| #1 | 6079.1 | 79223. | 5602.1 |
| #2 | 6067.3 | 79698. | 5554.6 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 16:09:23 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01052** | **.10806** | **.01505** | **.09212** | **.01077** | **.00097** | **.10346** | **.19961** | **.00516** | **.01112** | **.01031** |
| Stddev | .00010 | .00009 | .00015 | .00066 | .00027 | .00007 | .00298 | .00034 | .00003 | .00016 | .00017 |
| %RSD | .98361 | .07913 | 1.0077 | .71981 | 2.4955 | 7.6087 | 2.8796 | .16988 | .54583 | 1.4609 | 1.6605 |
| #1 | .01059 | .10799 | .01516 | .09165 | .01096 | .00102 | .10135 | .19937 | .00514 | .01123 | .01019 |
| #2 | .01044 | .10812 | .01494 | .09259 | .01058 | .00092 | .10557 | .19985 | .00518 | .01100 | .01043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01518** | **.09898** | **3.1547** | **.00990** | **.21730** | **.01085** | **.01963** | F **1.3549** | **.04174** | **2.9331** | **.01002** |
| Stddev | .00018 | .00038 | .0709 | .00278 | .00229 | .00008 | .00030 | .0009 | .00041 | .0110 | .00083 |
| %RSD | 1.2084 | .38717 | 2.2478 | 28.033 | 1.0531 | .70873 | 1.5526 | .06654 | .98714 | .37356 | 8.2984 |
| #1 | .01505 | .09925 | 3.2049 | .01187 | .21568 | .01080 | .01941 | 1.3543 | .04145 | 2.9254 | .00943 |
| #2 | .01531 | .09871 | 3.1046 | .00794 | .21892 | .01091 | .01984 | 1.3555 | .04204 | 2.9408 | .01061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00922** | **.00855** | **.01236** | **.53129** | **.10073** | **.01002** | **.01741** | **.01018** | **.01407** | W **.07341** | **.01040** |
| Stddev | .00183 | .00056 | .00184 | .00794 | .00076 | .00002 | .00011 | .00000 | .00012 | .00409 | .00042 |
| %RSD | 19.882 | 6.4956 | 14.853 | 1.4941 | .75544 | .17841 | .61680 | .03335 | .85593 | 5.5703 | 4.0833 |
| #1 | .00793 | .00816 | .01366 | .52568 | .10019 | .01003 | .01733 | .01018 | .01399 | .07052 | .01010 |
| #2 | .01052 | .00894 | .01106 | .53691 | .10127 | .01001 | .01749 | .01018 | .01416 | .07631 | .01070 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02471** | F **.02385** |
| Stddev | .00036 | .00149 |
| %RSD | 1.4472 | 6.2336 |
| #1 | .02497 | .02491 |
| #2 | .02446 | .02280 |
| Check ? | Chk Warn | Chk Fail |
| Value | .02000 | .01500 |
| Range | 20.000% | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6185.7** | **80462.** | **5639.8** |
| Stddev | 4.2 | 72. | 8.3 |
| %RSD | .06759 | .08921 | .14677 |
| #1 | 6182.7 | 80513. | 5633.9 |
| #2 | 6188.6 | 80411. | 5645.6 |

Sample Name: 280-41983-A-12-A Acquired: 5/14/2013 16:11:47 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00123** | **.00398** | **-.00309** | **.65696** | **.04727** | **-.00014** | **-.00167** | **224.18** | **.01777** |
| Stddev | .00069 | .00052 | .00270 | .00173 | .00040 | .00018 | .00029 | .52 | .00009 |
| %RSD | 56.126 | 13.058 | 87.643 | .26365 | .84983 | 125.77 | 17.520 | .23397 | .49896 |
| #1 | -.00172 | .00361 | -.00500 | .65573 | .04698 | -.00026 | -.00146 | 224.55 | .01783 |
| #2 | -.00074 | .00434 | -.00117 | .65818 | .04755 | -.00002 | -.00187 | 223.81 | .01770 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | **.00046** | **.00251** | **.02450** | **9.9260** | **.05726** | **41.719** | **.21521** | **.00015** |
| Stddev | .00024 | .00000 | .00042 | .00185 | .0098 | .00021 | .089 | .00059 | .00030 |
| %RSD | 22.077 | .04564 | 16.807 | 7.5441 | .09860 | .37360 | .21395 | .27436 | 198.09 |
| #1 | .00128 | .00046 | .00221 | .02580 | 9.9329 | .05711 | 41.656 | .21479 | .00037 |
| #2 | .00094 | .00046 | .00281 | .02319 | 9.9190 | .05741 | 41.782 | .21563 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **302.02** | **.00374** | **.21610** | **.00163** | **154.88** | **-.00016** | **-.00033** | **11.347** | **-.00094** |
| Stddev | 1.43 | .00037 | .00217 | .00052 | .21 | .00052 | .00399 | .005 | .00034 |
| %RSD | .47437 | 9.7773 | 1.0025 | 31.695 | .13792 | 328.18 | 1197.8 | .04405 | 35.882 |
| #1 | 303.03 | .00400 | .21456 | .00126 | 155.03 | -.00052 | -.00315 | 11.343 | -.00070 |
| #2 | 301.00 | .00348 | .21763 | .00200 | 154.73 | .00021 | .00249 | 11.350 | -.00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3391** | **-.00024** | **.00095** | **-.00021** | **.02609** | **.00057** | **.00634** | **-.00050** |
| Stddev | .0052 | .00161 | .00024 | .00109 | .01151 | .00015 | .00026 | .00184 |
| %RSD | .38570 | 672.53 | 25.148 | 524.76 | 44.131 | 26.953 | 4.1485 | 370.53 |
| #1 | 1.3427 | .00090 | .00112 | .00056 | .03423 | .00046 | .00615 | -.00180 |
| #2 | 1.3354 | -.00138 | .00078 | -.00097 | .01795 | .00067 | .00652 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5738.5** | **76099.** | **5519.1** |
| Stddev | 23.4 | 158. | 22.4 |
| %RSD | .40853 | .20822 | .40518 |
| #1 | 5755.1 | 75987. | 5503.3 |
| #2 | 5721.9 | 76211. | 5534.9 |

Sample Name: 280-41983-A-13-A Acquired: 5/14/2013 16:14:16 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00105** | **.00268** | **.50995** | **.31410** | **.03855** | **-.00015** | **.00048** | **276.84** | **1.4637** |
| Stddev | .00048 | .00023 | .00117 | .00165 | .00018 | .00002 | .00079 | 4.00 | .0018 |
| %RSD | 45.720 | 8.4929 | .22968 | .52494 | .47825 | 11.655 | 165.42 | 1.4461 | .12094 |
| #1 | .00138 | .00284 | .51077 | .31526 | .03868 | -.00016 | -.00008 | 279.67 | 1.4650 |
| #2 | .00071 | .00252 | .50912 | .31293 | .03842 | -.00013 | .00103 | 274.01 | 1.4625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01924** | **.00054** | **.00267** | **.00661** | **6.6413** | **.07585** | **50.142** | **9.7802** | **.03350** |
| Stddev | .00008 | .00000 | .00044 | .00038 | .0309 | .00059 | .266 | .0354 | .00009 |
| %RSD | .43630 | .11019 | 16.460 | 5.6964 | .46533 | .77984 | .52956 | .36209 | .27220 |
| #1 | .01930 | .00054 | .00298 | .00635 | 6.6194 | .07627 | 50.330 | 9.7551 | .03344 |
| #2 | .01918 | .00054 | .00236 | .00688 | 6.6631 | .07543 | 49.955 | 9.8052 | .03357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **309.66** | **.04328** | **.47338** | **.00232** | **298.42** | **.00061** | **.00047** | **7.2309** | **-.00009** |
| Stddev | .07 | .00046 | .00168 | .00065 | .52 | .00146 | .00151 | .0256 | .00094 |
| %RSD | .02148 | 1.0531 | .35501 | 28.150 | .17303 | 238.34 | 320.08 | .35405 | 1094.4 |
| #1 | 309.61 | .04295 | .47219 | .00278 | 298.79 | -.00042 | .00154 | 7.2127 | -.00075 |
| #2 | 309.71 | .04360 | .47456 | .00185 | 298.06 | .00165 | -.00059 | 7.2490 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3220** | **-.00232** | **.00133** | **-.00648** | **.08247** | **.00115** | **4.4808** | **-.00106** |
| Stddev | .0040 | .00060 | .00054 | .00104 | .02138 | .00065 | .0178 | .00087 |
| %RSD | .30205 | 25.843 | 40.286 | 16.000 | 25.923 | 56.374 | .39719 | 81.745 |
| #1 | 1.3248 | -.00274 | .00171 | -.00574 | .06735 | .00069 | 4.4934 | -.00045 |
| #2 | 1.3192 | -.00189 | .00095 | -.00721 | .09759 | .00160 | 4.4682 | -.00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5691.1** | **75579.** | **5520.8** |
| Stddev | .5 | 171. | 8.5 |
| %RSD | .00804 | .22657 | .15313 |
| #1 | 5691.4 | 75700. | 5526.8 |
| #2 | 5690.8 | 75458. | 5514.9 |

Sample Name: 280-41983-A-14-A Acquired: 5/14/2013 16:16:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00079** | **.00187** | **-.00425** | **.51547** | **.14443** | **-.00016** | **-.00148** | **240.30** | **.09688** |
| Stddev | .00065 | .00008 | .00393 | .00081 | .00040 | .00012 | .00078 | 1.25 | .00028 |
| %RSD | 82.011 | 4.5482 | 92.425 | .15690 | .27605 | 74.691 | 52.642 | .52089 | .28727 |
| #1 | -.00126 | .00193 | -.00147 | .51604 | .14472 | -.00008 | -.00203 | 239.42 | .09707 |
| #2 | -.00033 | .00181 | -.00703 | .51490 | .14415 | -.00025 | -.00093 | 241.19 | .09668 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00045** | **.00197** | **.03446** | **11.207** | **.05723** | **39.551** | **.00078** | **.00043** |
| Stddev | .00032 | .00007 | .00051 | .00029 | .105 | .00201 | .064 | .00002 | .00004 |
| %RSD | 72.033 | 14.999 | 25.750 | .83559 | .93877 | 3.5054 | .16200 | 2.4985 | 9.2208 |
| #1 | .00022 | .00050 | .00161 | .03466 | 11.133 | .05581 | 39.597 | .00080 | .00046 |
| #2 | .00067 | .00040 | .00233 | .03426 | 11.282 | .05864 | 39.506 | .00077 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **234.86** | **.00251** | **.24068** | **.00101** | **110.55** | **.00142** | **.00954** | **8.7714** | **-.00079** |
| Stddev | 3.01 | .00006 | .00690 | .00099 | .15 | .00050 | .00533 | .0458 | .00132 |
| %RSD | 1.2829 | 2.5165 | 2.8689 | 97.721 | .13852 | 35.208 | 55.892 | .52221 | 167.50 |
| #1 | 232.73 | .00255 | .24556 | .00171 | 110.66 | .00107 | .00577 | 8.7390 | -.00172 |
| #2 | 237.00 | .00246 | .23580 | .00031 | 110.44 | .00177 | .01331 | 8.8038 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3524** | **-.00107** | **.00102** | **.00119** | **.03392** | **.00063** | **.53732** | **-.00178** |
| Stddev | .0118 | .00170 | .00016 | .00115 | .00385 | .00097 | .00191 | .00195 |
| %RSD | .87314 | 159.20 | 16.056 | 96.777 | 11.360 | 154.94 | .35459 | 109.87 |
| #1 | 1.3440 | -.00227 | .00114 | .00037 | .03119 | .00131 | .53597 | -.00316 |
| #2 | 1.3607 | .00013 | .00091 | .00200 | .03664 | -.00006 | .53867 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5741.0** | **76352.** | **5457.1** |
| Stddev | 2.5 | 11. | 57.1 |
| %RSD | .04325 | .01463 | 1.0456 |
| #1 | 5739.2 | 76344. | 5497.5 |
| #2 | 5742.7 | 76360. | 5416.8 |

Sample Name: 280-41983-A-15-A Acquired: 5/14/2013 16:19:21 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00297** | **.00195** | **.87672** | **.49870** | **.03384** | **-.00006** | **-.00130** | **163.41** | **.48438** |
| Stddev | .00036 | .00045 | .00179 | .00159 | .00008 | .00002 | .00442 | .64 | .00133 |
| %RSD | 12.109 | 22.894 | .20421 | .31917 | .23081 | 41.144 | 340.34 | .39344 | .27389 |
| #1 | .00272 | .00163 | .87798 | .49982 | .03379 | -.00008 | .00183 | 162.95 | .48344 |
| #2 | .00322 | .00227 | .87545 | .49757 | .03390 | -.00004 | -.00442 | 163.86 | .48532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00845** | **.00041** | **.01288** | **.36972** | **4.2750** | **.04464** | **27.744** | F **22.156** | **.08822** |
| Stddev | .00001 | .00006 | .00034 | .00087 | .0640 | .00110 | .079 | .014 | .00007 |
| %RSD | .12736 | 15.409 | 2.6308 | .23508 | 1.4965 | 2.4707 | .28420 | .06223 | .07383 |
| #1 | .00844 | .00037 | .01264 | .36911 | 4.2298 | .04542 | 27.799 | 22.146 | .08827 |
| #2 | .00846 | .00046 | .01311 | .37034 | 4.3203 | .04386 | 27.688 | 22.166 | .08817 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **267.55** | **.01031** | **.51104** | **.00401** | **98.660** | **-.00125** | **-.00154** | **4.0043** | **-.00099** |
| Stddev | 1.19 | .00023 | .00427 | .00104 | .269 | .00097 | .00335 | .0094 | .00012 |
| %RSD | .44527 | 2.2239 | .83468 | 25.908 | .27241 | 77.864 | 217.00 | .23576 | 12.174 |
| #1 | 266.71 | .01015 | .50803 | .00328 | 98.470 | -.00056 | -.00391 | 3.9976 | -.00108 |
| #2 | 268.40 | .01047 | .51406 | .00474 | 98.850 | -.00194 | .00083 | 4.0109 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.71338** | **-.00121** | **.00045** | W **-.01622** | **-.01613** | **-.00752** | **.57913** | **-.00022** |
| Stddev | .00091 | .00218 | .00002 | .00089 | .00824 | .00052 | .00159 | .00007 |
| %RSD | .12748 | 180.12 | 4.3520 | 5.5164 | 51.093 | 6.9592 | .27521 | 32.389 |
| #1 | .71273 | -.00275 | .00044 | -.01559 | -.02195 | -.00715 | .58026 | -.00027 |
| #2 | .71402 | .00033 | .00046 | -.01685 | -.01030 | -.00789 | .57800 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5835.3** | **76790.** | **5490.8** |
| Stddev | 13.5 | 652. | 17.1 |
| %RSD | .23091 | .84937 | .31149 |
| #1 | 5844.8 | 76328. | 5502.9 |
| #2 | 5825.8 | 77251. | 5478.7 |

Sample Name: 280-41983-A-16-A Acquired: 5/14/2013 16:21:50 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.00231** | **-.00155** | **.79826** | **.12802** | **-.00006** | **-.00303** | **259.82** | **.14087** |
| Stddev | .00012 | .00008 | .00337 | .00768 | .00062 | .00005 | .00353 | 3.68 | .00134 |
| %RSD | 27.688 | 3.5934 | 216.77 | .96239 | .48225 | 76.807 | 116.53 | 1.4149 | .94981 |
| #1 | -.00054 | .00225 | .00083 | .79283 | .12846 | -.00003 | -.00553 | 262.42 | .13992 |
| #2 | -.00036 | .00236 | -.00394 | .80369 | .12758 | -.00009 | -.00053 | 257.22 | .14181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.00077** | **.00239** | **.01789** | **10.254** | **.05914** | **42.874** | **.01560** | **.00117** |
| Stddev | .00011 | .00002 | .00039 | .00029 | .027 | .00061 | .109 | .00000 | .00027 |
| %RSD | 18.939 | 3.1180 | 16.178 | 1.6211 | .26480 | 1.0275 | .25508 | .03116 | 22.857 |
| #1 | .00050 | .00079 | .00266 | .01810 | 10.234 | .05871 | 42.951 | .01560 | .00136 |
| #2 | .00066 | .00075 | .00212 | .01768 | 10.273 | .05957 | 42.796 | .01561 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **281.86** | **.00191** | **.25953** | **-.00030** | **130.45** | **.00076** | **.01002** | **8.0270** | **-.00076** |
| Stddev | .96 | .00021 | .00140 | .00078 | .28 | .00051 | .00197 | .0267 | .00005 |
| %RSD | .34082 | 10.760 | .53907 | 256.64 | .21770 | 67.365 | 19.679 | .33263 | 6.2835 |
| #1 | 282.54 | .00177 | .25854 | -.00086 | 130.25 | .00040 | .01142 | 8.0459 | -.00072 |
| #2 | 281.18 | .00206 | .26052 | .00025 | 130.65 | .00112 | .00863 | 8.0082 | -.00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4857** | **-.00234** | **.00151** | **.00047** | **.02387** | **.00105** | **.49726** | **-.00178** |
| Stddev | .0046 | .00325 | .00009 | .00010 | .01008 | .00037 | .00059 | .00218 |
| %RSD | .30781 | 139.19 | 5.8604 | 21.594 | 42.243 | 35.417 | .11951 | 122.45 |
| #1 | 1.4889 | -.00004 | .00145 | .00054 | .01674 | .00078 | .49768 | -.00333 |
| #2 | 1.4824 | -.00464 | .00158 | .00040 | .03100 | .00131 | .49684 | -.00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5806.0** | **76174.** | **5545.5** |
| Stddev | 8.5 | 116. | 29.0 |
| %RSD | .14597 | .15259 | .52290 |
| #1 | 5800.0 | 76092. | 5525.0 |
| #2 | 5812.0 | 76256. | 5566.0 |

Sample Name: 280-41983-A-17-A Acquired: 5/14/2013 16:24:24 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **.00197** | **.33339** | **.11779** | **.01502** | **-.00005** | **-.00231** | W **521.47** | **.09577** |
| Stddev | .00009 | .00013 | .00503 | .00192 | .00043 | .00001 | .00027 | 14.09 | .00068 |
| %RSD | 12.917 | 6.4592 | 1.5095 | 1.6303 | 2.8595 | 24.350 | 11.615 | 2.7024 | .71481 |
| #1 | -.00062 | .00206 | .32983 | .11643 | .01472 | -.00006 | -.00250 | 511.50 | .09529 |
| #2 | -.00074 | .00188 | .33695 | .11915 | .01533 | -.00005 | -.00212 | 531.43 | .09626 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00067** | **.00141** | **.01057** | **5.3542** | **.26850** | **23.027** | **.08439** | **.00370** |
| Stddev | .00017 | .00025 | .00007 | .00137 | .0206 | .00121 | .040 | .00022 | .00001 |
| %RSD | 25.463 | 37.771 | 5.2628 | 12.947 | .38424 | .44907 | .17318 | .26327 | .18516 |
| #1 | .00054 | .00085 | .00146 | .01154 | 5.3397 | .26764 | 23.056 | .08423 | .00369 |
| #2 | .00077 | .00049 | .00135 | .00960 | 5.3688 | .26935 | 22.999 | .08454 | .00370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **546.03** | **.00582** | **.19340** | **-.00036** | **709.50** | **.00142** | **.78128** | **10.013** | **-.00193** |
| Stddev | .13 | .00036 | .00052 | .00236 | 1.61 | .00076 | .00362 | .008 | .00037 |
| %RSD | .02327 | 6.1725 | .27001 | 654.44 | .22739 | 53.831 | .46285 | .08284 | 19.246 |
| #1 | 545.94 | .00557 | .19303 | -.00203 | 708.36 | .00088 | .77872 | 10.007 | -.00167 |
| #2 | 546.12 | .00608 | .19377 | .00131 | 710.64 | .00196 | .78383 | 10.018 | -.00219 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2525** | **.00071** | **.00327** | **.00029** | **.00173** | **.00104** | **.02608** | **-.00005** |
| Stddev | .0029 | .00112 | .00020 | .00003 | .00704 | .00033 | .00015 | .00198 |
| %RSD | .13108 | 159.19 | 6.1348 | 9.5271 | 408.19 | 31.492 | .58943 | 3749.8 |
| #1 | 2.2504 | .00150 | .00312 | .00031 | .00670 | .00081 | .02597 | .00135 |
| #2 | 2.2546 | -.00009 | .00341 | .00027 | -.00325 | .00127 | .02619 | -.00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5741.8** | **77287.** | **5768.4** |
| Stddev | 105.5 | 842. | 30.5 |
| %RSD | 1.8368 | 1.0895 | .52891 |
| #1 | 5816.3 | 76692. | 5789.9 |
| #2 | 5667.2 | 77883. | 5746.8 |

Sample Name: 280-41983-A-18-A Acquired: 5/14/2013 16:27:31 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00067** | **.00157** | F **50.818** | **.09691** | **.01944** | **-.00021** | **-.00474** | W **568.34** | **.09490** |
| Stddev | .00046 | .00016 | .092 | .00119 | .00025 | .00011 | .00050 | 18.99 | .00039 |
| %RSD | 69.063 | 10.096 | .18081 | 1.2271 | 1.2903 | 54.408 | 10.550 | 3.3412 | .41056 |
| #1 | -.00034 | .00169 | 50.883 | .09775 | .01926 | -.00029 | -.00509 | 581.77 | .09517 |
| #2 | -.00099 | .00146 | 50.753 | .09607 | .01962 | -.00013 | -.00439 | 554.91 | .09462 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 50.000 | | | | | 500.00 | |
| Low Limit | | | -.02000 | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00269** | **.00081** | **.00153** | **.02318** | **5.2814** | **.17453** | **11.223** | **1.6692** | **.00932** |
| Stddev | .00003 | .00016 | .00050 | .00197 | .0844 | .00203 | .012 | .0021 | .00003 |
| %RSD | 1.2359 | 20.147 | 32.512 | 8.4854 | 1.5985 | 1.1625 | .10751 | .12456 | .27283 |
| #1 | .00271 | .00092 | .00118 | .02179 | 5.2217 | .17596 | 11.214 | 1.6677 | .00934 |
| #2 | .00267 | .00069 | .00188 | .02457 | 5.3411 | .17309 | 11.231 | 1.6707 | .00930 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **634.24** | **.00918** | **.19746** | **.00097** | **747.41** | **-.00049** | **.44845** | **10.192** | **-.00141** |
| Stddev | 1.64 | .00028 | .00042 | .00052 | 1.39 | .00051 | .00126 | .016 | .00010 |
| %RSD | .25836 | 3.0351 | .21293 | 53.458 | .18598 | 104.61 | .27997 | .15591 | 7.0000 |
| #1 | 635.40 | .00938 | .19776 | .00134 | 748.39 | -.00085 | .44756 | 10.181 | -.00148 |
| #2 | 633.08 | .00898 | .19716 | .00060 | 746.43 | -.00013 | .44934 | 10.204 | -.00134 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0031** | **.00060** | **.00249** | **-.00026** | **.02189** | **.00232** | **.01169** | **-.00018** |
| Stddev | .0031 | .00014 | .00009 | .00076 | .01752 | .00014 | .00025 | .00310 |
| %RSD | .15378 | 23.921 | 3.6528 | 293.00 | 80.028 | 5.9364 | 2.1308 | 1761.1 |
| #1 | 2.0053 | .00050 | .00242 | .00028 | .03428 | .00222 | .01186 | .00202 |
| #2 | 2.0009 | .00070 | .00255 | -.00079 | .00950 | .00241 | .01151 | -.00237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5699.0** | **73360.** | **5553.4** |
| Stddev | 26.7 | 185. | 71.2 |
| %RSD | .46822 | .25282 | 1.2816 |
| #1 | 5680.1 | 73491. | 5603.7 |
| #2 | 5717.8 | 73229. | 5503.1 |

Sample Name: 280-41983-A-18-A@5 Acquired: 5/14/2013 16:30:40 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173568 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **-.00045** | **10.164** | **.01528** | **.00426** | **-.00003** | **.00106** | **117.74** | **.01817** |
| Stddev | .00020 | .00045 | .007 | .00002 | .00007 | .00008 | .00050 | .12 | .00044 |
| %RSD | 61.023 | 99.891 | .06956 | .13144 | 1.6448 | 245.27 | 47.426 | .10418 | 2.3981 |
| #1 | -.00047 | -.00077 | 10.159 | .01529 | .00430 | .00003 | .00070 | 117.66 | .01786 |
| #2 | -.00018 | -.00013 | 10.169 | .01526 | .00421 | -.00009 | .00142 | 117.83 | .01848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **.00023** | **.00031** | **.00948** | **1.1316** | **.03533** | **2.3851** | **.34403** | **.00161** |
| Stddev | .00026 | .00022 | .00038 | .00051 | .0067 | .00253 | .0040 | .00017 | .00005 |
| %RSD | 34.573 | 95.776 | 122.29 | 5.3867 | .58926 | 7.1654 | .16600 | .04802 | 2.8847 |
| #1 | .00094 | .00008 | .00004 | .00984 | 1.1363 | .03712 | 2.3879 | .34392 | .00158 |
| #2 | .00057 | .00039 | .00058 | .00912 | 1.1269 | .03354 | 2.3823 | .34415 | .00164 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **128.48** | **.00185** | **.03503** | **.00064** | **150.10** | **.00057** | **.08462** | **2.0097** | **-.00031** |
| Stddev | .35 | .00007 | .00230 | .00037 | .04 | .00058 | .00018 | .0214 | .00044 |
| %RSD | .26904 | 3.9604 | 6.5628 | 56.705 | .02810 | 101.42 | .20954 | 1.0651 | 142.86 |
| #1 | 128.24 | .00180 | .03665 | .00090 | 150.07 | .00098 | .08474 | 2.0249 | -.00062 |
| #2 | 128.73 | .00190 | .03340 | .00039 | 150.13 | .00016 | .08449 | 1.9946 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40729** | **-.00075** | **.00018** | **-.00052** | **.01339** | **.00041** | **.00569** | **.00078** |
| Stddev | .00053 | .00088 | .00014 | .00020 | .00673 | .00090 | .00026 | .00329 |
| %RSD | .13095 | 117.59 | 78.248 | 38.034 | 50.269 | 218.84 | 4.5712 | 424.05 |
| #1 | .40767 | -.00013 | .00008 | -.00038 | .00863 | -.00022 | .00551 | -.00155 |
| #2 | .40691 | -.00137 | .00028 | -.00066 | .01815 | .00105 | .00588 | .00311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6115.8** | **80347.** | **5884.3** |
| Stddev | .2 | 318. | 3.2 |
| %RSD | .00255 | .39528 | .05397 |
| #1 | 6115.9 | 80123. | 5882.1 |
| #2 | 6115.7 | 80572. | 5886.6 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 16:33:04 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00773** | **49.374** | **.00208** | **-.00459** | **.00044** | **-.00009** | **1.0044** | **.00485** | **-.00077** | **.00206** | **-.00007** | **.00120** | **50.087** |
| Stddev | .00112 | .245 | .00209 | .00065 | .00019 | .00000 | .0033 | .00126 | .00001 | .00006 | .00000 | .00010 | .218 |
| %RSD | 14.535 | .49660 | 100.65 | 14.111 | 43.959 | .99309 | .33076 | 25.893 | 1.1354 | 2.8764 | .66699 | 8.6100 | .43443 |
| #1 | .00694 | 49.200 | .00355 | -.00505 | .00030 | -.00009 | 1.0021 | .00396 | -.00078 | .00210 | -.00007 | .00127 | 50.240 |
| #2 | .00853 | 49.547 | .00060 | -.00413 | .00058 | -.00009 | 1.0068 | .00573 | -.00076 | .00202 | -.00007 | .00113 | 49.933 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18785** | **.00386** | **-.01311** | **-.00005** | **-.00205** | **249.99** | **.00107** | **-.00018** | **-.00124** | **5.1963** | **-.00091** | **.00239** | **.00749** |
| Stddev | .00856 | .00046 | .00015 | .00002 | .00010 | 1.43 | .00004 | .00035 | .00038 | .0152 | .00011 | .00125 | .00909 |
| %RSD | 4.5577 | 11.964 | 1.1756 | 48.628 | 4.9380 | .57057 | 4.0391 | 191.21 | 30.727 | .29185 | 11.735 | 52.165 | 121.40 |
| #1 | .19391 | .00354 | -.01300 | -.00006 | -.00198 | 248.98 | .00110 | -.00043 | -.00097 | 5.1855 | -.00083 | .00328 | .01392 |
| #2 | .18180 | .00419 | -.01322 | -.00003 | -.00212 | 250.99 | .00104 | .00006 | -.00151 | 5.2070 | -.00098 | .00151 | .00106 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00029** | **5.0663** | **.00240** | **-.00153** | **9.9672** | **-.00120** | **.00298** | **-.03991** |
| Stddev | .00080 | .00007 | .0153 | .00052 | .00123 | .0628 | .00020 | .00036 | .00305 |
| %RSD | 367.66 | 23.984 | .30283 | 21.800 | 80.147 | .62991 | 17.022 | 12.150 | 7.6544 |
| #1 | -.00035 | .00033 | 5.0771 | .00203 | -.00066 | 10.012 | -.00106 | .00324 | -.03775 |
| #2 | .00078 | .00024 | 5.0555 | .00277 | -.00240 | 9.9228 | -.00134 | .00273 | -.04207 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6217.9** | **81646.** | **5937.0** |
| Stddev | 10.8 | 422. | 4.8 |
| %RSD | .17322 | .51669 | .08110 |
| #1 | 6225.5 | 81348. | 5933.6 |
| #2 | 6210.3 | 81944. | 5940.4 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 16:35:32 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51894** | **.47937** | **1.0063** | **.49174** | **.49733** | **.47866** | **-.00149** | **4.9486** | **.50620** | **.50918** | **.49482** | **.49930** | **2.4488** |
| Stddev | .00144 | .00141 | .0045 | .00101 | .00340 | .00291 | .00083 | .0501 | .00126 | .00107 | .00036 | .00101 | .0118 |
| %RSD | .27706 | .29475 | .44524 | .20581 | .68331 | .60750 | 55.508 | 1.0124 | .24923 | .21009 | .07344 | .20216 | .48223 |
| #1 | .51995 | .48037 | 1.0095 | .49245 | .49973 | .48071 | -.00091 | 4.9840 | .50710 | .50994 | .49508 | .49859 | 2.4572 |
| #2 | .51792 | .47838 | 1.0032 | .49102 | .49493 | .47660 | -.00208 | 4.9132 | .50531 | .50843 | .49456 | .50002 | 2.4405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.458** | **.99139** | **20.739** | **.51589** | **.48901** | **5.2833** | **.50462** | **.97628** | **1.0122** | **.06448** | **1.0093** | **.99039** | **4.8815** |
| Stddev | .313 | .00310 | .029 | .00003 | .00115 | .0295 | .00210 | .00086 | .0040 | .00186 | .0037 | .00385 | .0304 |
| %RSD | .63345 | .31226 | .14184 | .00579 | .23510 | .55900 | .41574 | .08827 | .39450 | 2.8803 | .37017 | .38882 | .62242 |
| #1 | 49.679 | .99357 | 20.760 | .51591 | .48983 | 5.3042 | .50611 | .97689 | 1.0150 | .06579 | 1.0119 | .99311 | 4.9030 |
| #2 | 49.236 | .98920 | 20.718 | .51587 | .48820 | 5.2624 | .50314 | .97567 | 1.0093 | .06317 | 1.0066 | .98767 | 4.8600 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98673** | **.48406** | **.00067** | **.50483** | **.98384** | **.01347** | **.50289** | **.52641** | **.49455** |
| Stddev | .00134 | .00444 | .00020 | .00022 | .00187 | .02037 | .00114 | .00018 | .00205 |
| %RSD | .13610 | .91775 | 29.632 | .04364 | .19050 | 151.25 | .22611 | .03463 | .41540 |
| #1 | .98768 | .48720 | .00081 | .50499 | .98516 | .02788 | .50208 | .52653 | .49600 |
| #2 | .98578 | .48092 | .00053 | .50468 | .98251 | -.00094 | .50369 | .52628 | .49310 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6261.6** | **81334.** | **5902.4** |
| Stddev | 1.6 | 82. | 3.3 |
| %RSD | .02600 | .10105 | .05528 |
| #1 | 6262.7 | 81276. | 5900.1 |
| #2 | 6260.4 | 81392. | 5904.7 |

Sample Name: CCB Acquired: 5/14/2013 16:37:46 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00049** | **-.00058** | **.00141** | F **-.00560** | **.00013** | **.00002** | **-.00435** | **-.00315** | **-.00005** | **.00021** | **-.00000** |
| Stddev | .00089 | .00015 | .00060 | .00024 | .00010 | .00002 | .00163 | .00133 | .00003 | .00051 | .00010 |
| %RSD | 179.94 | 26.169 | 42.549 | 4.3188 | 81.170 | 116.71 | 37.423 | 42.089 | 58.230 | 243.06 | 2974.0 |
| #1 | -.00112 | -.00047 | .00099 | -.00543 | .00005 | .00004 | -.00320 | -.00222 | -.00003 | .00057 | -.00007 |
| #2 | .00013 | -.00069 | .00184 | -.00577 | .00020 | .00000 | -.00550 | -.00409 | -.00006 | -.00015 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00178** | **.06142** | **.00153** | **-.00016** | **.00002** | **.00006** | F **.42698** | **-.00017** | **-.00657** | **.00182** |
| Stddev | .00025 | .00086 | .00791 | .00015 | .00355 | .00000 | .00008 | .00186 | .00005 | .00239 | .00035 |
| %RSD | 146.09 | 48.267 | 12.883 | 9.5396 | 2263.2 | 24.103 | 125.85 | .43546 | 31.556 | 36.305 | 19.422 |
| #1 | -.00001 | .00117 | .05583 | .00164 | .00236 | .00002 | .00001 | .42830 | -.00013 | -.00826 | .00157 |
| #2 | .00034 | .00239 | .06702 | .00143 | -.00267 | .00002 | .00012 | .42567 | -.00021 | -.00489 | .00207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05654** | **-.00062** | **.00213** | **-.00289** | **-.00067** | **.00001** | **.00068** | **-.00039** | **-.00160** | **.00801** | **.00003** |
| Stddev | .00179 | .00077 | .00266 | .00551 | .00023 | .00004 | .00205 | .00093 | .00107 | .01212 | .00039 |
| %RSD | 3.1616 | 123.90 | 124.53 | 190.55 | 34.861 | 597.31 | 299.53 | 241.33 | 66.696 | 151.40 | 1356.3 |
| #1 | .05781 | -.00116 | .00401 | .00100 | -.00051 | .00004 | .00213 | -.00105 | -.00235 | .01658 | -.00025 |
| #2 | .05528 | -.00008 | .00025 | -.00678 | -.00084 | -.00002 | -.00076 | .00027 | -.00085 | -.00056 | .00030 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00247** | **-.00140** |
| Stddev | .00025 | .00030 |
| %RSD | 9.9553 | 21.125 |
| #1 | .00264 | -.00119 |
| #2 | .00230 | -.00161 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6253.4** | **81435.** | **5779.2** |
| Stddev | 8.0 | 40. | 53.7 |
| %RSD | .12765 | .04905 | .92966 |
| #1 | 6259.1 | 81407. | 5741.2 |
| #2 | 6247.8 | 81464. | 5817.2 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 16:40:14 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01070** | **.09880** | **.01570** | **.09136** | **.01027** | **.00095** | **.10399** | **.20189** | **.00520** | **.01100** | **.01035** |
| Stddev | .00034 | .00017 | .00244 | .00056 | .00007 | .00006 | .00175 | .00330 | .00012 | .00006 | .00007 |
| %RSD | 3.1346 | .17003 | 15.547 | .61174 | .66757 | 6.0409 | 1.6870 | 1.6357 | 2.3765 | .50211 | .66091 |
| #1 | .01093 | .09868 | .01397 | .09097 | .01032 | .00091 | .10275 | .20422 | .00529 | .01096 | .01040 |
| #2 | .01046 | .09892 | .01742 | .09176 | .01022 | .00099 | .10523 | .19955 | .00511 | .01104 | .01030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01545** | **.10031** | **3.1533** | W **.01294** | **.21636** | **.01080** | **.01979** | F **1.3921** | **.04179** | **2.9012** | **.00957** |
| Stddev | .00015 | .00063 | .0162 | .00093 | .00105 | .00009 | .00014 | .0051 | .00034 | .0013 | .00025 |
| %RSD | .96171 | .62777 | .51406 | 7.1787 | .48453 | .80160 | .70825 | .36865 | .81254 | .04400 | 2.6299 |
| #1 | .01555 | .10076 | 3.1648 | .01228 | .21710 | .01074 | .01969 | 1.3885 | .04155 | 2.9021 | .00974 |
| #2 | .01534 | .09987 | 3.1419 | .01360 | .21562 | .01086 | .01989 | 1.3958 | .04203 | 2.9003 | .00939 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 20.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04582** | W **.00784** | **.01387** | **.48820** | **.10059** | **.01001** | **.01505** | **.00992** | **.01453** | F **.08921** | **.00992** |
| Stddev | .00237 | .00081 | .00086 | .01031 | .00031 | .00001 | .00091 | .00004 | .00029 | .01955 | .00050 |
| %RSD | 5.1678 | 10.308 | 6.2055 | 2.1127 | .30409 | .10089 | 6.0400 | .43679 | 1.9884 | 21.918 | 5.0341 |
| #1 | .04749 | .00841 | .01326 | .49549 | .10038 | .01001 | .01441 | .00995 | .01432 | .10303 | .00957 |
| #2 | .04414 | .00727 | .01447 | .48091 | .10081 | .01000 | .01569 | .00989 | .01473 | .07538 | .01027 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02392** | **.01626** |
| Stddev | .00009 | .00087 |
| %RSD | .38744 | 5.3468 |
| #1 | .02398 | .01564 |
| #2 | .02385 | .01687 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6355.0** | **82608.** | **5936.7** |
| Stddev | 11.5 | 256. | 20.5 |
| %RSD | .18027 | .31038 | .34594 |
| #1 | 6346.9 | 82427. | 5922.2 |
| #2 | 6363.1 | 82790. | 5951.2 |

Sample Name: MB 280-173569/1-A Acquired: 5/14/2013 16:42:38 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00589** | **-.00038** | F **-.00611** | **.00041** | **.00000** | **.00044** | **.01745** | **-.00005** |
| Stddev | .00048 | .00011 | .00212 | .00009 | .00004 | .00002 | .00137 | .00149 | .00008 |
| %RSD | 329.41 | 1.8254 | 551.41 | 1.5234 | 10.199 | 1342.7 | 314.11 | 8.5344 | 172.62 |
| #1 | -.00019 | .00581 | .00111 | -.00604 | .00043 | -.00001 | -.00053 | .01640 | -.00011 |
| #2 | .00048 | .00596 | -.00188 | -.00618 | .00038 | .00002 | .00141 | .01851 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | | | | | |
| Low Limit | | | | -.00343 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00042** | **.00012** | F **.05435** | **.10220** | **.00183** | **.00621** | W **.00056** | **-.00008** |
| Stddev | .00012 | .00005 | .00004 | .00153 | .05079 | .00148 | .00003 | .00001 | .00012 |
| %RSD | 56.629 | 11.601 | 35.786 | 2.8222 | 49.696 | 80.948 | .55643 | 2.5168 | 142.23 |
| #1 | .00030 | .00045 | .00015 | .05327 | .06629 | .00288 | .00618 | .00055 | .00000 |
| #2 | .00013 | .00039 | .00009 | .05544 | .13811 | .00078 | .00623 | .00057 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | .04840 | | | | .00025 | |
| Low Limit | | | | -.04840 | | | | -.00025 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.38262** | **.00019** | F **.19954** | **.00061** | **.04756** | **-.00040** | **-.00032** | **.03456** | **.00034** |
| Stddev | .00942 | .00007 | .00052 | .00089 | .00097 | .00016 | .00126 | .01812 | .00047 |
| %RSD | 2.4620 | 37.862 | .26198 | 145.86 | 2.0363 | 39.949 | 395.57 | 52.436 | 139.87 |
| #1 | .37596 | .00024 | .19991 | -.00002 | .04825 | -.00028 | .00057 | .04738 | .00067 |
| #2 | .38928 | .00014 | .19917 | .00124 | .04688 | -.00051 | -.00121 | .02175 | .00000 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .20152 | | .02970 | | | | | | |
| Low Limit | -.20152 | | -.02970 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00124** | **.00024** | **-.00070** | W **.02839** | **-.00038** | **.00329** | **-.00067** |
| Stddev | .00000 | .00045 | .00037 | .00097 | .00311 | .00006 | .00009 | .00010 |
| %RSD | 2.2623 | 36.346 | 150.89 | 139.33 | 10.952 | 15.481 | 2.7844 | 14.825 |
| #1 | .00003 | .00155 | .00051 | -.00001 | .03059 | -.00034 | .00336 | -.00060 |
| #2 | .00003 | .00092 | -.00002 | -.00139 | .02619 | -.00042 | .00323 | -.00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01610 | | | |
| Low Limit | | | | | -.01610 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6422.0** | **83653.** | **5980.3** |
| Stddev | 16.5 | 244. | 20.9 |
| %RSD | .25707 | .29147 | .34910 |
| #1 | 6433.7 | 83480. | 5965.5 |
| #2 | 6410.4 | 83825. | 5995.1 |

Sample Name: LCS 280-173569/2-A Acquired: 5/14/2013 16:45:06 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05679** | **1.8777** | **1.0320** | **1.0254** | **2.0498** | **.04921** | **2.0973** | **50.055** | **.10638** |
| Stddev | .00078 | .0018 | .0000 | .0022 | .0069 | .00003 | .0031 | .144 | .00010 |
| %RSD | 1.3659 | .09316 | .00033 | .21339 | .33426 | .05284 | .14667 | .28799 | .09048 |
| #1 | .05624 | 1.8790 | 1.0320 | 1.0238 | 2.0546 | .04922 | 2.0952 | 50.157 | .10631 |
| #2 | .05734 | 1.8765 | 1.0320 | 1.0269 | 2.0449 | .04919 | 2.0995 | 49.953 | .10645 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50917** | **.20184** | **.25452** | **.98908** | **50.918** | **1.0030** | **53.118** | **.52281** | **.99353** |
| Stddev | .00030 | .00003 | .00038 | .00375 | .228 | .0033 | .057 | .00007 | .00081 |
| %RSD | .05987 | .01565 | .15097 | .37930 | .44805 | .32779 | .10674 | .01312 | .08159 |
| #1 | .50939 | .20182 | .25425 | .99173 | 51.079 | 1.0053 | 53.158 | .52276 | .99296 |
| #2 | .50895 | .20186 | .25480 | .98642 | 50.756 | 1.0007 | 53.078 | .52285 | .99410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.485** | **.50096** | **10.452** | **.50838** | **.02529** | **.52039** | **2.0583** | **10.123** | **1.9975** |
| Stddev | .214 | .00039 | .003 | .00092 | .00342 | .00158 | .0001 | .007 | .0038 |
| %RSD | .41640 | .07693 | .02943 | .18065 | 13.524 | .30452 | .00650 | .06916 | .19000 |
| #1 | 51.334 | .50069 | 10.449 | .50903 | .02287 | .51927 | 2.0584 | 10.118 | 1.9948 |
| #2 | 51.637 | .50124 | 10.454 | .50773 | .02771 | .52151 | 2.0582 | 10.127 | 2.0002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98955** | **1.0437** | **1.0292** | **1.9816** | **2.0979** | **.51961** | **.53697** | **.49579** |
| Stddev | .00562 | .0004 | .0006 | .0010 | .0191 | .00004 | .00320 | .00091 |
| %RSD | .56823 | .03556 | .06125 | .05058 | .90975 | .00752 | .59590 | .18442 |
| #1 | .99353 | 1.0434 | 1.0288 | 1.9823 | 2.0844 | .51958 | .53923 | .49515 |
| #2 | .98558 | 1.0439 | 1.0297 | 1.9809 | 2.1114 | .51964 | .53471 | .49644 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6225.8** | **79997.** | **5898.1** |
| Stddev | 13.1 | 460. | 18.7 |
| %RSD | .21021 | .57527 | .31732 |
| #1 | 6216.5 | 79672. | 5884.9 |
| #2 | 6235.0 | 80323. | 5911.4 |

Sample Name: 280-41983-A-19-A Acquired: 5/14/2013 16:47:17 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **.00516** | **.01880** | **.48117** | **.00557** | **-.00007** | **-.00411** | **296.50** | **1.1998** |
| Stddev | .00019 | .00005 | .00061 | .00066 | .00037 | .00009 | .00030 | 1.54 | .0006 |
| %RSD | 71.177 | 1.0574 | 3.2220 | .13790 | 6.6754 | 124.88 | 7.3561 | .51784 | .04685 |
| #1 | -.00014 | .00512 | .01837 | .48071 | .00531 | -.00001 | -.00432 | 297.58 | 1.1994 |
| #2 | -.00041 | .00520 | .01922 | .48164 | .00583 | -.00013 | -.00389 | 295.41 | 1.2002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01217** | **.00039** | **.00805** | **.02599** | **22.977** | **.11294** | **115.41** | **3.4298** | **.00330** |
| Stddev | .00023 | .00016 | .00007 | .00212 | .155 | .00048 | .39 | .0070 | .00006 |
| %RSD | 1.8590 | 41.463 | .83805 | 8.1489 | .67321 | .42468 | .33647 | .20362 | 1.7009 |
| #1 | .01201 | .00028 | .00800 | .02449 | 22.868 | .11260 | 115.69 | 3.4347 | .00326 |
| #2 | .01233 | .00050 | .00810 | .02749 | 23.087 | .11328 | 115.14 | 3.4249 | .00334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **919.16** | **.05085** | **.27029** | **.00285** | **668.95** | **.00337** | **.00042** | **14.098** | **-.00027** |
| Stddev | 1.36 | .00026 | .00045 | .00046 | .56 | .00010 | .00003 | .073 | .00011 |
| %RSD | .14772 | .50457 | .16710 | 16.234 | .08429 | 2.9091 | 8.1528 | .52036 | 40.049 |
| #1 | 920.12 | .05103 | .27061 | .00253 | 669.35 | .00330 | .00040 | 14.150 | -.00034 |
| #2 | 918.20 | .05067 | .26997 | .00318 | 668.55 | .00344 | .00044 | 14.046 | -.00019 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4455** | **-.00107** | **.00157** | **.10931** | **.00388** | **.00039** | W **10.333** | **.00289** |
| Stddev | .0049 | .00173 | .00047 | .00018 | .01644 | .00013 | .040 | .00153 |
| %RSD | .19818 | 161.94 | 29.970 | .16550 | 423.44 | 34.699 | .39146 | 52.786 |
| #1 | 2.4421 | .00015 | .00190 | .10919 | -.00774 | .00048 | 10.361 | .00181 |
| #2 | 2.4490 | -.00229 | .00124 | .10944 | .01550 | .00029 | 10.304 | .00397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5758.3** | **76461.** | **5873.2** |
| Stddev | 23.2 | 197. | 1.0 |
| %RSD | .40282 | .25795 | .01640 |
| #1 | 5774.7 | 76321. | 5872.5 |
| #2 | 5741.9 | 76600. | 5873.9 |

Sample Name: sd 41983-A-19-A@5 Acquired: 5/14/2013 16:50:25 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00033** | **.00262** | **.09045** | **.00109** | **.00002** | **-.00115** | **59.857** | **.23226** |
| Stddev | .00016 | .00002 | .00049 | .00044 | .00045 | .00005 | .00110 | .309 | .00103 |
| %RSD | 79.227 | 6.5457 | 18.698 | .48930 | 41.157 | 224.90 | 95.473 | .51605 | .44395 |
| #1 | .00031 | .00031 | .00227 | .09014 | .00141 | -.00001 | -.00193 | 60.076 | .23153 |
| #2 | .00009 | .00034 | .00297 | .09076 | .00078 | .00006 | -.00037 | 59.639 | .23299 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00295** | **.00010** | **.00148** | **.01170** | **4.5727** | **.02448** | **23.044** | **.68379** | **.00042** |
| Stddev | .00001 | .00012 | .00038 | .00070 | .0040 | .00211 | .049 | .00058 | .00000 |
| %RSD | .39276 | 125.71 | 25.786 | 6.0030 | .08699 | 8.6281 | .21125 | .08513 | .14869 |
| #1 | .00296 | .00018 | .00175 | .01121 | 4.5698 | .02299 | 23.079 | .68420 | .00042 |
| #2 | .00295 | .00001 | .00121 | .01220 | 4.5755 | .02598 | 23.010 | .68337 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **180.90** | **.01021** | **.04593** | **.00056** | **129.17** | **-.00006** | **-.00334** | **2.7306** | **.00014** |
| Stddev | .62 | .00026 | .00094 | .00137 | .18 | .00230 | .00119 | .0189 | .00042 |
| %RSD | .34178 | 2.5608 | 2.0472 | 245.87 | .14154 | 3580.2 | 35.532 | .69207 | 291.52 |
| #1 | 181.34 | .01002 | .04659 | -.00041 | 129.05 | .00156 | -.00418 | 2.7173 | .00044 |
| #2 | 180.47 | .01039 | .04526 | .00153 | 129.30 | -.00169 | -.00250 | 2.7440 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48347** | **-.00066** | **.00000** | **.02384** | **.03058** | **.00036** | **2.1170** | **.00152** |
| Stddev | .00366 | .00232 | .00011 | .00013 | .01799 | .00045 | .0079 | .00096 |
| %RSD | .75740 | 351.81 | 6519.7 | .52892 | 58.823 | 123.57 | .37181 | 63.226 |
| #1 | .48606 | .00098 | .00008 | .02393 | .01786 | .00068 | 2.1226 | .00220 |
| #2 | .48088 | -.00230 | -.00007 | .02375 | .04330 | .00005 | 2.1115 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6143.1** | **80194.** | **5953.3** |
| Stddev | 21.4 | 161. | 33.1 |
| %RSD | .34886 | .20101 | .55547 |
| #1 | 6158.3 | 80080. | 5929.9 |
| #2 | 6128.0 | 80308. | 5976.7 |

Sample Name: 280-41983-A-19-B MS  Acquired: 5/14/2013 16:52:49  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05876** | **1.7653** | **1.0853** | **1.4829** | **2.0478** | **.04766** | **2.1182** | **339.52** | **1.2949** |
| Stddev | .00101 | .0050 | .0043 | .0052 | .0119 | .00029 | .0100 | .68 | .0042 |
| %RSD | 1.7196 | .28499 | .39891 | .35186 | .57972 | .60039 | .46984 | .20029 | .32416 |
| #1 | .05804 | 1.7618 | 1.0822 | 1.4792 | 2.0562 | .04786 | 2.1112 | 340.00 | 1.2919 |
| #2 | .05947 | 1.7689 | 1.0884 | 1.4866 | 2.0394 | .04745 | 2.1253 | 339.04 | 1.2979 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50830** | **.19722** | **.26451** | **.98630** | **75.182** | **1.1272** | **163.51** | **3.8604** | **.99048** |
| Stddev | .00133 | .00083 | .00036 | .00108 | .398 | .0052 | 1.43 | .0026 | .00528 |
| %RSD | .26237 | .42308 | .13783 | .10994 | .52979 | .45703 | .87686 | .06839 | .53340 |
| #1 | .50736 | .19663 | .26425 | .98707 | 75.463 | 1.1308 | 162.50 | 3.8585 | .98674 |
| #2 | .50924 | .19781 | .26476 | .98554 | 74.900 | 1.1236 | 164.53 | 3.8623 | .99421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **960.60** | **.53598** | **11.117** | **.48299** | **661.06** | **.53365** | **2.1314** | **23.989** | **1.9305** |
| Stddev | 5.06 | .00146 | .042 | .00251 | 1.98 | .00164 | .0014 | .002 | .0069 |
| %RSD | .52629 | .27203 | .37367 | .52038 | .29987 | .30799 | .06377 | .00693 | .35875 |
| #1 | 964.17 | .53495 | 11.088 | .48121 | 659.66 | .53249 | 2.1305 | 23.990 | 1.9256 |
| #2 | 957.02 | .53701 | 11.147 | .48477 | 662.46 | .53481 | 2.1324 | 23.987 | 1.9354 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4080** | **1.0379** | **1.0159** | **1.8846** | **2.0856** | **.51228** | W **10.465** | **.48558** |
| Stddev | .0190 | .0075 | .0021 | .0022 | .0032 | .00026 | .011 | .00107 |
| %RSD | .55862 | .72200 | .20524 | .11745 | .15579 | .05127 | .10830 | .22009 |
| #1 | 3.4215 | 1.0326 | 1.0145 | 1.8831 | 2.0879 | .51247 | 10.473 | .48633 |
| #2 | 3.3946 | 1.0432 | 1.0174 | 1.8862 | 2.0833 | .51209 | 10.457 | .48482 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5760.4** | **76574.** | **5848.1** |
| Stddev | 28.4 | 43. | 64.5 |
| %RSD | .49330 | .05579 | 1.1036 |
| #1 | 5780.5 | 76605. | 5802.5 |
| #2 | 5740.3 | 76544. | 5893.8 |

Sample Name: 280-41983-A-19-C MSD Acquired: 5/14/2013 16:55:53 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05915** | **1.7511** | **1.0797** | **1.4775** | **2.0452** | **.04743** | **2.1101** | **341.73** | **1.2931** |
| Stddev | .00093 | .0006 | .0003 | .0008 | .0079 | .00014 | .0008 | .14 | .0004 |
| %RSD | 1.5681 | .03248 | .02989 | .05617 | .38816 | .29180 | .03956 | .04217 | .03233 |
| #1 | .05850 | 1.7507 | 1.0795 | 1.4769 | 2.0396 | .04753 | 2.1107 | 341.63 | 1.2929 |
| #2 | .05981 | 1.7515 | 1.0800 | 1.4781 | 2.0508 | .04733 | 2.1095 | 341.83 | 1.2934 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50435** | **.19527** | **.26305** | **.97951** | **75.612** | **1.1262** | **164.32** | **3.8536** | **.97973** |
| Stddev | .00027 | .00009 | .00008 | .00225 | .343 | .0007 | .16 | .0027 | .00002 |
| %RSD | .05401 | .04485 | .02898 | .22930 | .45356 | .05904 | .09478 | .07044 | .00219 |
| #1 | .50416 | .19521 | .26310 | .98110 | 75.369 | 1.1258 | 164.21 | 3.8517 | .97975 |
| #2 | .50455 | .19533 | .26299 | .97793 | 75.854 | 1.1267 | 164.43 | 3.8555 | .97972 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **967.95** | **.53034** | **11.042** | **.48165** | **661.25** | **.52955** | **2.1097** | **24.046** | **1.9075** |
| Stddev | .52 | .00047 | .021 | .00011 | .42 | .00234 | .0057 | .034 | .0013 |
| %RSD | .05374 | .08855 | .18951 | .02329 | .06398 | .44246 | .27175 | .13977 | .06835 |
| #1 | 968.32 | .53001 | 11.028 | .48157 | 661.55 | .53120 | 2.1138 | 24.069 | 1.9065 |
| #2 | 967.58 | .53067 | 11.057 | .48173 | 660.95 | .52789 | 2.1057 | 24.022 | 1.9084 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4245** | **1.0262** | **1.0064** | **1.8785** | **2.0632** | **.50985** | W **10.466** | **.48510** |
| Stddev | .0027 | .0069 | .0007 | .0000 | .0332 | .00020 | .020 | .00079 |
| %RSD | .08033 | .67342 | .07141 | .00173 | 1.6113 | .03857 | .18774 | .16298 |
| #1 | 3.4265 | 1.0213 | 1.0058 | 1.8786 | 2.0397 | .50999 | 10.453 | .48566 |
| #2 | 3.4226 | 1.0311 | 1.0069 | 1.8785 | 2.0867 | .50971 | 10.480 | .48454 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5743.8** | **75838.** | **5787.9** |
| Stddev | 20.0 | 325. | 16.5 |
| %RSD | .34853 | .42825 | .28523 |
| #1 | 5758.0 | 76068. | 5776.2 |
| #2 | 5729.7 | 75609. | 5799.5 |

Sample Name: 280-41983-A-20-A Acquired: 5/14/2013 16:58:56 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00191** | **4.8320** | **.02804** | **.48380** | **.00955** | **.00192** | **-.00039** | **257.16** | **1.3959** |
| Stddev | .00028 | .0542 | .00028 | .00049 | .00019 | .00002 | .00212 | 2.01 | .0030 |
| %RSD | 14.715 | 1.1213 | 1.0004 | .10125 | 2.0345 | .94784 | 545.50 | .78044 | .21219 |
| #1 | .00171 | 4.8704 | .02824 | .48415 | .00969 | .00191 | .00111 | 258.58 | 1.3938 |
| #2 | .00211 | 4.7937 | .02785 | .48346 | .00942 | .00193 | -.00188 | 255.74 | 1.3980 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38438** | **.00070** | **.03203** | **7.7219** | **2.1684** | **.07293** | **49.763** | W **16.901** | **-.00141** |
| Stddev | .00012 | .00013 | .00005 | .0281 | .0032 | .00094 | .083 | .204 | .00007 |
| %RSD | .03021 | 18.264 | .15735 | .36416 | .14787 | 1.2927 | .16732 | 1.2090 | 5.2419 |
| #1 | .38446 | .00061 | .03207 | 7.7418 | 2.1661 | .07360 | 49.704 | 16.756 | -.00146 |
| #2 | .38430 | .00080 | .03200 | 7.7020 | 2.1707 | .07227 | 49.822 | 17.045 | -.00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **409.38** | **.12520** | **.45463** | **.00644** | **477.96** | **-.00215** | **.01302** | **15.885** | **-.00022** |
| Stddev | 3.62 | .00013 | .00004 | .00022 | 1.05 | .00162 | .00002 | .026 | .00019 |
| %RSD | .88369 | .10396 | .00798 | 3.4716 | .21923 | 75.679 | .13425 | .16360 | 85.273 |
| #1 | 411.94 | .12529 | .45461 | .00659 | 477.22 | -.00330 | .01303 | 15.904 | -.00035 |
| #2 | 406.82 | .12510 | .45466 | .00628 | 478.70 | -.00100 | .01301 | 15.867 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74942** | **-.00234** | **.00063** | W **-.01225** | **-.02692** | **-.00447** | W **25.636** | **.00169** |
| Stddev | .00554 | .00079 | .00001 | .00269 | .00760 | .00017 | .074 | .00030 |
| %RSD | .73949 | 33.664 | 1.3536 | 21.995 | 28.229 | 3.6961 | .28692 | 17.465 |
| #1 | .75334 | -.00178 | .00063 | -.01035 | -.03230 | -.00435 | 25.584 | .00190 |
| #2 | .74550 | -.00290 | .00064 | -.01416 | -.02155 | -.00458 | 25.688 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 5.0000 | | | 10.000 | |
| Low Limit | | | | -.01000 | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6175.4** | **81141.** | **6075.3** |
| Stddev | 15.3 | 63. | 62.1 |
| %RSD | .24702 | .07792 | 1.0225 |
| #1 | 6164.6 | 81185. | 6031.4 |
| #2 | 6186.2 | 81096. | 6119.3 |

Sample Name: 280-41983-A-21-A Acquired: 5/14/2013 17:01:33 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00789** | **.08069** | **.06827** | **.53213** | **.02080** | **.00004** | **.00250** | **244.15** | **1.7677** |
| Stddev | .00050 | .00034 | .00256 | .00223 | .00020 | .00001 | .00084 | .75 | .0038 |
| %RSD | 6.2933 | .42651 | 3.7535 | .41996 | .95836 | 13.850 | 33.400 | .30522 | .21309 |
| #1 | .00824 | .08093 | .06646 | .53371 | .02094 | .00004 | .00309 | 243.62 | 1.7704 |
| #2 | .00754 | .08044 | .07008 | .53055 | .02066 | .00003 | .00191 | 244.68 | 1.7651 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52653** | **.00050** | **.00304** | **2.9327** | **6.0687** | **.19015** | **60.750** | F **44.527** | **.00554** |
| Stddev | .00016 | .00010 | .00055 | .0242 | .0304 | .00321 | .126 | .102 | .00034 |
| %RSD | .02956 | 20.018 | 18.191 | .82392 | .50070 | 1.6882 | .20781 | .22877 | 6.1831 |
| #1 | .52664 | .00043 | .00343 | 2.9156 | 6.0472 | .18788 | 60.661 | 44.600 | .00530 |
| #2 | .52642 | .00057 | .00265 | 2.9498 | 6.0901 | .19242 | 60.839 | 44.455 | .00579 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **513.83** | **.19655** | **1.4028** | **.00775** | **416.73** | **-.00391** | **.00041** | **9.6028** | **-.00052** |
| Stddev | .40 | .00075 | .0069 | .00106 | .51 | .00085 | .00475 | .0487 | .00090 |
| %RSD | .07717 | .38132 | .49371 | 13.665 | .12150 | 21.781 | 1168.3 | .50683 | 172.50 |
| #1 | 514.11 | .19708 | 1.3979 | .00850 | 417.09 | -.00451 | -.00295 | 9.5683 | .00012 |
| #2 | 513.55 | .19602 | 1.4077 | .00701 | 416.37 | -.00330 | .00376 | 9.6372 | -.00116 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98454** | **-.00740** | **.00132** | F **-.03431** | **-.01087** | F **-.02844** | W **17.098** | **.00078** |
| Stddev | .00157 | .00210 | .00012 | .00021 | .00232 | .00026 | .062 | .00038 |
| %RSD | .15918 | 28.403 | 8.8894 | .61865 | 21.379 | .89701 | .36046 | 48.811 |
| #1 | .98565 | -.00592 | .00140 | -.03416 | -.01251 | -.02862 | 17.055 | .00051 |
| #2 | .98343 | -.00889 | .00124 | -.03446 | -.00923 | -.02826 | 17.142 | .00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Warn | Chk Pass |
| High Limit | | | | 20.000 | | 50.000 | 10.000 | |
| Low Limit | | | | -.02000 | | -.02000 | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5868.0** | **77054.** | **5845.9** |
| Stddev | 20.8 | 311. | 4.6 |
| %RSD | .35533 | .40355 | .07906 |
| #1 | 5853.2 | 77273. | 5849.2 |
| #2 | 5882.7 | 76834. | 5842.7 |

Sample Name: 280-41983-A-22-A Acquired: 5/14/2013 17:04:45 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00487** | **4.7766** | **.00198** | **.28476** | **.00833** | **.00448** | **.00124** | **363.51** | W **5.6113** |
| Stddev | .00017 | .0159 | .00234 | .00137 | .00035 | .00004 | .00056 | 1.10 | .0207 |
| %RSD | 3.5275 | .33358 | 118.54 | .48099 | 4.1493 | .87428 | 45.591 | .30209 | .36926 |
| #1 | .00500 | 4.7878 | .00032 | .28379 | .00858 | .00450 | .00163 | 362.73 | 5.6259 |
| #2 | .00475 | 4.7653 | .00363 | .28573 | .00809 | .00445 | .00084 | 364.29 | 5.5966 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39281** | **-.00000** | **.21060** | **36.983** | **3.4290** | **.14848** | **246.93** | F **30.921** | **-.00265** |
| Stddev | .00016 | .00001 | .00073 | .071 | .1147 | .00043 | 2.02 | .063 | .00017 |
| %RSD | .04181 | 182.21 | .34792 | .19227 | 3.3455 | .28712 | .81726 | .20401 | 6.4617 |
| #1 | .39269 | .00000 | .21009 | 36.933 | 3.3479 | .14878 | 245.50 | 30.966 | -.00277 |
| #2 | .39292 | -.00001 | .21112 | 37.033 | 3.5101 | .14818 | 248.36 | 30.877 | -.00253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1070.6** | **.29206** | **1.3710** | **.00481** | **1036.0** | **-.00340** | **-.00081** | **7.6980** | **-.00094** |
| Stddev | .1 | .00061 | .0118 | .00253 | 3.2 | .00108 | .00046 | .0003 | .00002 |
| %RSD | .01396 | .20787 | .85755 | 52.492 | .30897 | 31.867 | 56.716 | .00345 | 2.3753 |
| #1 | 1070.5 | .29249 | 1.3627 | .00660 | 1038.3 | -.00263 | -.00113 | 7.6978 | -.00096 |
| #2 | 1070.7 | .29163 | 1.3793 | .00303 | 1033.7 | -.00416 | -.00048 | 7.6982 | -.00093 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3268** | **.00050** | **.00038** | F **-.02481** | **-.04492** | W **-.01493** | F **93.196** | **.00167** |
| Stddev | .0036 | .00107 | .00005 | .00058 | .02305 | .00036 | .573 | .00168 |
| %RSD | .15260 | 215.99 | 13.426 | 2.3282 | 51.320 | 2.3845 | .61502 | 100.86 |
| #1 | 2.3242 | -.00026 | .00042 | -.02522 | -.02862 | -.01467 | 92.791 | .00285 |
| #2 | 2.3293 | .00126 | .00035 | -.02440 | -.06122 | -.01518 | 93.601 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Fail | Chk Pass |
| High Limit | | | | 20.000 | | 45.000 | 50.000 | |
| Low Limit | | | | -.02000 | | -.01000 | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6405.2** | **84514.** | **6477.8** |
| Stddev | 17.5 | 155. | 1.3 |
| %RSD | .27287 | .18316 | .01947 |
| #1 | 6392.8 | 84623. | 6476.9 |
| #2 | 6417.5 | 84404. | 6478.7 |

Sample Name: 280-41983-A-22-A@5 Acquired: 5/14/2013 17:08:06 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **1.0518** | **-.00145** | **.06177** | **.00233** | **.00098** | **.00042** | **85.521** | **1.2487** |
| Stddev | .00039 | .0093 | .00036 | .00029 | .00007 | .00001 | .00264 | .296 | .0116 |
| %RSD | 67.438 | .88386 | 24.797 | .46519 | 3.1333 | .83064 | 622.22 | .34572 | .93043 |
| #1 | .00030 | 1.0584 | -.00120 | .06198 | .00228 | .00097 | -.00144 | 85.312 | 1.2569 |
| #2 | .00086 | 1.0452 | -.00171 | .06157 | .00238 | .00099 | .00229 | 85.730 | 1.2404 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09353** | **.00002** | **.04785** | **8.5845** | **.85310** | **.03411** | **56.896** | **7.7763** | **-.00091** |
| Stddev | .00047 | .00014 | .00055 | .0339 | .02824 | .00158 | .105 | .0065 | .00008 |
| %RSD | .50117 | 729.43 | 1.1574 | .39475 | 3.3104 | 4.6234 | .18456 | .08326 | 9.0379 |
| #1 | .09386 | -.00008 | .04824 | 8.5606 | .83313 | .03523 | 56.971 | 7.7809 | -.00085 |
| #2 | .09320 | .00012 | .04746 | 8.6085 | .87307 | .03300 | 56.822 | 7.7717 | -.00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **238.81** | **.06951** | **.33170** | **.00174** | **242.51** | **-.00196** | **.00113** | **1.7027** | **.00011** |
| Stddev | .12 | .00038 | .00735 | .00114 | 1.93 | .00072 | .00164 | .0117 | .00041 |
| %RSD | .04857 | .53988 | 2.2157 | 65.369 | .79472 | 36.969 | 144.88 | .68946 | 375.66 |
| #1 | 238.73 | .06977 | .33690 | .00255 | 243.87 | -.00247 | -.00003 | 1.7110 | -.00018 |
| #2 | 238.90 | .06924 | .32650 | .00094 | 241.15 | -.00145 | .00230 | 1.6944 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52579** | **-.00017** | **.00021** | **-.00531** | **-.00553** | **-.00139** | W **25.104** | **.00056** |
| Stddev | .00010 | .00101 | .00031 | .00014 | .01746 | .00017 | .026 | .00017 |
| %RSD | .01882 | 586.90 | 146.59 | 2.5954 | 315.89 | 12.548 | .10306 | 30.061 |
| #1 | .52586 | .00054 | .00043 | -.00521 | .00682 | -.00127 | 25.122 | .00044 |
| #2 | .52572 | -.00089 | -.00001 | -.00541 | -.01788 | -.00152 | 25.085 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6189.6** | **81022.** | **5973.0** |
| Stddev | 36.5 | 204. | 41.3 |
| %RSD | .58920 | .25188 | .69144 |
| #1 | 6163.8 | 80877. | 6002.2 |
| #2 | 6215.4 | 81166. | 5943.8 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 17:10:37 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00766** | **49.123** | **.00130** | **-.00416** | **.00036** | **-.00005** | **1.0089** | **.01066** | **-.00071** | **.00205** | **.00004** | **.00104** | **49.549** |
| Stddev | .00050 | .331 | .00171 | .00036 | .00038 | .00002 | .0027 | .00607 | .00012 | .00000 | .00025 | .00044 | .466 |
| %RSD | 6.5085 | .67379 | 130.86 | 8.7424 | 106.51 | 41.722 | .27043 | 56.951 | 17.553 | .15924 | 699.78 | 42.571 | .94013 |
| #1 | .00730 | 49.357 | .00251 | -.00441 | .00009 | -.00007 | 1.0070 | .01495 | -.00062 | .00205 | -.00014 | .00073 | 49.878 |
| #2 | .00801 | 48.889 | .00010 | -.00390 | .00063 | -.00004 | 1.0108 | .00637 | -.00080 | .00205 | .00022 | .00135 | 49.219 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20766** | **.00068** | **-.01186** | **-.00035** | **-.00201** | **249.95** | **.00112** | **.02895** | **.00124** | **5.3766** | **-.00172** | **-.00004** | **.00193** |
| Stddev | .02042 | .00150 | .00310 | .00013 | .00010 | 2.08 | .00005 | .00318 | .00167 | .0006 | .00134 | .00208 | .00853 |
| %RSD | 9.8353 | 220.19 | 26.151 | 36.207 | 4.7767 | .83405 | 4.4305 | 10.983 | 135.02 | .01137 | 77.986 | 4710.5 | 442.19 |
| #1 | .19321 | .00175 | -.01405 | -.00026 | -.00195 | 251.43 | .00115 | .03120 | .00006 | 5.3762 | -.00077 | -.00152 | -.00410 |
| #2 | .22210 | -.00038 | -.00967 | -.00044 | -.00208 | 248.48 | .00108 | .02670 | .00242 | 5.3771 | -.00266 | .00143 | .00796 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00026** | **5.0246** | **.00269** | **-.00259** | **9.8490** | **-.00053** | **.00407** | **-.03647** |
| Stddev | .00017 | .00000 | .0611 | .00005 | .00049 | .1140 | .00018 | .00068 | .00535 |
| %RSD | 91.343 | 1.3435 | 1.2159 | 1.9445 | 18.816 | 1.1572 | 33.294 | 16.842 | 14.657 |
| #1 | .00006 | .00026 | 4.9814 | .00265 | -.00293 | 9.7684 | -.00041 | .00455 | -.03269 |
| #2 | .00030 | .00026 | 5.0678 | .00272 | -.00224 | 9.9296 | -.00065 | .00358 | -.04026 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6170.5** | **81374.** | **5913.4** |
| Stddev | 11.7 | 179. | 53.2 |
| %RSD | .19004 | .21946 | .89964 |
| #1 | 6178.8 | 81501. | 5875.8 |
| #2 | 6162.2 | 81248. | 5951.1 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 17:13:05 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52432** | **.48151** | **1.0154** | **.49607** | **.50328** | **.48018** | **.00128** | **4.9874** | **.50923** | **.51128** | **.49775** | **.50354** |
| Stddev | .00279 | .00010 | .0007 | .00065 | .00366 | .00052 | .00009 | .0010 | .00039 | .00003 | .00050 | .00138 |
| %RSD | .53159 | .01975 | .07320 | .13035 | .72675 | .10782 | 6.8206 | .02039 | .07737 | .00628 | .10092 | .27483 |
| #1 | .52235 | .48144 | 1.0159 | .49653 | .50069 | .47982 | .00122 | 4.9881 | .50951 | .51131 | .49740 | .50256 |
| #2 | .52629 | .48157 | 1.0149 | .49561 | .50586 | .48055 | .00134 | 4.9866 | .50895 | .51126 | .49811 | .50452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4465** | **50.060** | **1.0012** | **20.805** | **.51842** | **.49190** | F **5.5695** | **.50529** | **1.0013** | **1.0171** | **.16823** | **1.0186** |
| Stddev | .0012 | .318 | .0053 | .019 | .00003 | .00080 | .0333 | .00013 | .0010 | .0025 | .00758 | .0044 |
| %RSD | .04727 | .63495 | .52856 | .09004 | .00532 | .16194 | .59755 | .02645 | .09897 | .24912 | 4.5070 | .42813 |
| #1 | 2.4474 | 49.835 | .99743 | 20.792 | .51840 | .49133 | 5.5459 | .50538 | 1.0020 | 1.0153 | .17360 | 1.0216 |
| #2 | 2.4457 | 50.285 | 1.0049 | 20.819 | .51844 | .49246 | 5.5930 | .50519 | 1.0006 | 1.0189 | .16287 | 1.0155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0003** | **4.8951** | **.99044** | **.48809** | **-.00184** | **.50880** | **.99203** | **.03649** | **.50651** | **.52655** | **.49728** |
| Stddev | .0008 | .0028 | .00397 | .00085 | .00134 | .00062 | .00026 | .02329 | .00071 | .00089 | .00185 |
| %RSD | .08155 | .05716 | .40060 | .17517 | 73.037 | .12283 | .02632 | 63.839 | .14097 | .16904 | .37265 |
| #1 | 1.0009 | 4.8971 | .99325 | .48749 | -.00279 | .50924 | .99184 | .05296 | .50701 | .52717 | .49859 |
| #2 | .99973 | 4.8931 | .98764 | .48870 | -.00089 | .50836 | .99221 | .02002 | .50600 | .52592 | .49597 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6273.4** | **81777.** | **5942.8** |
| Stddev | 13.2 | 328. | 55.7 |
| %RSD | .20976 | .40132 | .93651 |
| #1 | 6282.7 | 81545. | 5982.2 |
| #2 | 6264.1 | 82009. | 5903.5 |

Sample Name: CCB Acquired: 5/14/2013 17:15:18 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **-.00033** | **.00123** | F **-.00563** | W **.00058** | **-.00002** | **.00022** | **-.00321** | **-.00011** | **.00010** | **.00004** |
| Stddev | .00018 | .00008 | .00035 | .00004 | .00022 | .00005 | .00011 | .00351 | .00011 | .00041 | .00007 |
| %RSD | 92.569 | 24.945 | 28.601 | .73221 | 38.380 | 218.65 | 48.453 | 109.44 | 103.61 | 419.47 | 157.49 |
| #1 | -.00007 | -.00027 | .00148 | -.00560 | .00074 | .00001 | .00015 | -.00073 | -.00003 | -.00019 | -.00000 |
| #2 | -.00033 | -.00039 | .00098 | -.00566 | .00043 | -.00005 | .00030 | -.00569 | -.00018 | .00039 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00161** | **.13073** | **.00101** | **-.00136** | **.00000** | **-.00008** | F **.70929** | **-.00012** | F **.01048** | **-.00003** |
| Stddev | .00003 | .00023 | .00223 | .00165 | .00124 | .00001 | .00009 | .00422 | .00004 | .00011 | .00016 |
| %RSD | 23.443 | 14.123 | 1.7042 | 162.80 | 91.159 | 247.01 | 109.91 | .59438 | 33.827 | 1.0407 | 500.68 |
| #1 | -.00014 | .00145 | .12915 | -.00015 | -.00224 | .00001 | -.00015 | .70631 | -.00009 | .01055 | .00008 |
| #2 | -.00010 | .00177 | .13231 | .00218 | -.00048 | -.00000 | -.00002 | .71227 | -.00015 | .01040 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | .10000 | | .01000 | |
| Low Limit | | | | | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11833** | **-.00110** | **.00117** | **-.00781** | **-.00016** | **-.00000** | **.00133** | **.00032** | **-.00146** | **.01556** | **-.00010** |
| Stddev | .00579 | .00059 | .00021 | .00600 | .00024 | .00003 | .00152 | .00031 | .00085 | .01008 | .00009 |
| %RSD | 4.8971 | 53.507 | 18.433 | 76.812 | 153.51 | 2244.5 | 114.74 | 94.352 | 58.219 | 64.811 | 87.014 |
| #1 | .12243 | -.00068 | .00132 | -.01205 | .00001 | -.00002 | .00240 | .00054 | -.00086 | .02269 | -.00017 |
| #2 | .11423 | -.00152 | .00101 | -.00357 | -.00033 | .00002 | .00025 | .00011 | -.00206 | .00843 | -.00004 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | **-.00014** |
| Stddev | .00006 | .00085 |
| %RSD | 2.3137 | 611.76 |
| #1 | .00264 | -.00074 |
| #2 | .00255 | .00046 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6263.3** | **81621.** | **5913.9** |
| Stddev | 1.6 | 72. | 42.4 |
| %RSD | .02549 | .08806 | .71733 |
| #1 | 6264.5 | 81672. | 5883.9 |
| #2 | 6262.2 | 81570. | 5943.9 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 17:17:47 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01066** | **.10080** | **.01578** | **.09175** | **.01088** | **.00097** | **.10583** | **.23532** | **.00537** | **.01099** | **.01030** |
| Stddev | .00038 | .00085 | .00142 | .00041 | .00007 | .00002 | .00098 | .00273 | .00001 | .00008 | .00004 |
| %RSD | 3.5831 | .84593 | 8.9822 | .45041 | .67720 | 1.9942 | .92226 | 1.1612 | .17938 | .73483 | .39111 |
| #1 | .01039 | .10141 | .01478 | .09205 | .01093 | .00099 | .10514 | .23339 | .00537 | .01105 | .01027 |
| #2 | .01093 | .10020 | .01678 | .09146 | .01083 | .00096 | .10652 | .23725 | .00536 | .01093 | .01033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01602** | **.10220** | **3.2839** | W **.01276** | **.22344** | **.01091** | **.01979** | F **1.7257** | **.04220** | **2.9380** | **.00959** |
| Stddev | .00001 | .00210 | .0368 | .00071 | .00154 | .00005 | .00002 | .0009 | .00013 | .0060 | .00057 |
| %RSD | .03384 | 2.0548 | 1.1194 | 5.5400 | .69060 | .45576 | .07907 | .05032 | .31607 | .20357 | 5.8906 |
| #1 | .01601 | .10072 | 3.2579 | .01226 | .22453 | .01087 | .01980 | 1.7263 | .04210 | 2.9423 | .00999 |
| #2 | .01602 | .10369 | 3.3099 | .01326 | .22235 | .01094 | .01978 | 1.7251 | .04229 | 2.9338 | .00919 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 20.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09616** | **.01053** | **.01226** | **.50291** | **.10118** | **.01017** | **.01504** | **.01030** | **.01595** | **.05756** | **.00967** |
| Stddev | .00173 | .00061 | .00146 | .01363 | .00030 | .00004 | .00012 | .00004 | .00126 | .00973 | .00039 |
| %RSD | 1.7987 | 5.8120 | 11.916 | 2.7095 | .29857 | .39289 | .82812 | .37339 | 7.9055 | 16.909 | 4.0157 |
| #1 | .09738 | .01010 | .01123 | .49327 | .10139 | .01019 | .01496 | .01028 | .01685 | .06444 | .00994 |
| #2 | .09494 | .01097 | .01329 | .51254 | .10097 | .01014 | .01513 | .01033 | .01506 | .05067 | .00939 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02669** | **.01433** |
| Stddev | .00031 | .00163 |
| %RSD | 1.1623 | 11.381 |
| #1 | .02691 | .01549 |
| #2 | .02647 | .01318 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6426.1** | **81308.** | **5988.3** |
| Stddev | 14.8 | 444. | 9.1 |
| %RSD | .23034 | .54576 | .15247 |
| #1 | 6415.7 | 80994. | 5994.8 |
| #2 | 6436.6 | 81622. | 5981.9 |

Sample Name: 280-41983-A-23-A Acquired: 5/14/2013 17:20:10 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **13.972** | **2.9788** | **.29615** | **.00713** | **.00134** | **-.00901** | **398.74** | W **7.3857** |
| Stddev | .00034 | .040 | .0162 | .00199 | .00018 | .00000 | .00270 | 6.75 | .0435 |
| %RSD | 63.800 | .28340 | .54328 | .67294 | 2.4779 | .26816 | 29.969 | 1.6922 | .58909 |
| #1 | .00076 | 14.000 | 2.9902 | .29756 | .00726 | .00134 | -.00710 | 403.51 | 7.4165 |
| #2 | .00029 | 13.944 | 2.9674 | .29474 | .00701 | .00134 | -.01092 | 393.97 | 7.3550 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09231** | **.00161** | **.21980** | **85.029** | **70.602** | **.25304** | **73.656** | **9.9755** | **-.00173** |
| Stddev | .00030 | .00001 | .00013 | .238 | .158 | .00115 | .073 | .0259 | .00022 |
| %RSD | .31971 | .47660 | .05760 | .27994 | .22448 | .45547 | .09869 | .25916 | 12.509 |
| #1 | .09252 | .00161 | .21989 | 85.198 | 70.715 | .25222 | 73.708 | 9.9938 | -.00158 |
| #2 | .09210 | .00160 | .21971 | 84.861 | 70.490 | .25385 | 73.605 | 9.9572 | -.00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1484.0** | **.11550** | **2.9480** | **.00523** | **1129.2** | **-.00370** | **.01480** | **40.030** | **-.00082** |
| Stddev | 8.4 | .00045 | .0221 | .00077 | 6.6 | .00024 | .00046 | .167 | .00051 |
| %RSD | .56274 | .39379 | .74792 | 14.710 | .58439 | 6.5634 | 3.0791 | .41600 | 62.422 |
| #1 | 1489.9 | .11582 | 2.9324 | .00577 | 1133.9 | -.00352 | .01448 | 40.148 | -.00119 |
| #2 | 1478.1 | .11517 | 2.9636 | .00469 | 1124.6 | -.00387 | .01512 | 39.913 | -.00046 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7781** | **.00444** | **.00226** | **.63846** | **-.02811** | **.01505** | F **60.769** | **-.00007** |
| Stddev | .0146 | .00120 | .00000 | .00304 | .02517 | .00071 | .133 | .00307 |
| %RSD | .52495 | 26.912 | .16455 | .47632 | 89.530 | 4.7190 | .21853 | 4442.5 |
| #1 | 2.7884 | .00360 | .00226 | .64061 | -.01032 | .01454 | 60.863 | .00210 |
| #2 | 2.7677 | .00529 | .00225 | .63631 | -.04591 | .01555 | 60.675 | -.00224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6059.3** | **77570.** | **6126.4** |
| Stddev | 21.6 | 259. | 78.7 |
| %RSD | .35660 | .33361 | 1.2841 |
| #1 | 6044.0 | 77387. | 6070.8 |
| #2 | 6074.5 | 77753. | 6182.1 |

Sample Name: 280-41983-A-23-A@5 Acquired: 5/14/2013 17:23:20 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **2.5395** | F **2.9102** | **.59582** | **.05839** | **.00152** | **.00027** | **-.00579** | **84.085** |
| Stddev | .00023 | .0049 | .0053 | .00046 | .00033 | .00016 | .00004 | .00324 | .823 |
| %RSD | 72.197 | .19421 | .18395 | .07778 | .55786 | 10.361 | 13.569 | 55.861 | .97818 |
| #1 | .00048 | 2.5360 | 2.9140 | .59549 | .05862 | .00141 | .00030 | -.00808 | 84.667 |
| #2 | .00015 | 2.5430 | 2.9065 | .59615 | .05816 | .00164 | .00025 | -.00350 | 83.504 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 1000.0 | | | | | | |
| Low Limit | | | 3.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4969** | **.02006** | **.00026** | **.04532** | **16.983** | **14.200** | **.05310** | **15.642** | **2.1245** |
| Stddev | .0041 | .00029 | .00011 | .00026 | .160 | .100 | .00058 | .021 | .0018 |
| %RSD | .27655 | 1.4479 | 43.789 | .57347 | .94500 | .70641 | 1.0905 | .13108 | .08232 |
| #1 | 1.4940 | .02026 | .00018 | .04513 | 17.097 | 14.271 | .05269 | 15.657 | 2.1257 |
| #2 | 1.4998 | .01985 | .00034 | .04550 | 16.870 | 14.129 | .05351 | 15.628 | 2.1232 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00067** | **303.51** | **.02467** | **.64373** | **.00113** | **243.10** | **-.00105** | **.00032** | **8.2064** |
| Stddev | .00002 | 2.87 | .00028 | .00736 | .00057 | .51 | .00164 | .00215 | .0234 |
| %RSD | 3.3006 | .94595 | 1.1396 | 1.1427 | 50.237 | .21131 | 156.19 | 668.25 | .28550 |
| #1 | -.00068 | 305.54 | .02487 | .64893 | .00154 | 242.73 | -.00221 | -.00120 | 8.1898 |
| #2 | -.00065 | 301.48 | .02447 | .63853 | .00073 | 243.46 | .00011 | .00184 | 8.2230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.57070** | **.00292** | **-.00007** | **.14474** | **-.00231** | **.00297** | W **13.731** | **-.00094** |
| Stddev | .00057 | .00582 | .00193 | .00005 | .00094 | .02543 | .00047 | .023 | .00015 |
| %RSD | 667.01 | 1.0205 | 66.057 | 77.141 | .65181 | 1102.0 | 15.892 | .16679 | 16.538 |
| #1 | .00049 | .57482 | .00156 | -.00003 | .14541 | .01567 | .00264 | 13.747 | -.00105 |
| #2 | -.00032 | .56658 | .00429 | -.00010 | .14407 | -.02029 | .00331 | 13.715 | -.00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6240.9** | **80526.** | **6075.8** |
| Stddev | 10.3 | 207. | 65.0 |
| %RSD | .16564 | .25761 | 1.0694 |
| #1 | 6248.2 | 80379. | 6029.9 |
| #2 | 6233.6 | 80673. | 6121.8 |

Sample Name: 280-41983-A-24-A Acquired: 5/14/2013 17:25:47 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00680** | **2.0730** | **-.00306** | **.37019** | **.00831** | **.00282** | **.00385** | **487.46** | W **7.4338** |
| Stddev | .00047 | .0009 | .00129 | .00085 | .00026 | .00007 | .00239 | 3.26 | .0004 |
| %RSD | 6.9220 | .04299 | 42.066 | .23013 | 3.1166 | 2.4884 | 62.093 | .66898 | .00523 |
| #1 | .00646 | 2.0724 | -.00215 | .36959 | .00813 | .00277 | .00216 | 485.15 | 7.4341 |
| #2 | .00713 | 2.0737 | -.00397 | .37079 | .00849 | .00287 | .00554 | 489.76 | 7.4335 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48986** | **-.00000** | **.03391** | **30.278** | **5.8340** | **.24434** | W **525.76** | F **40.662** | **-.00369** |
| Stddev | .00036 | .00021 | .00007 | .194 | .2659 | .00143 | 1.78 | .084 | .00005 |
| %RSD | .07422 | 16659. | .20575 | .64006 | 4.5573 | .58620 | .33859 | .20666 | 1.3266 |
| #1 | .49012 | .00015 | .03386 | 30.141 | 5.6460 | .24535 | 524.50 | 40.602 | -.00366 |
| #2 | .48961 | -.00015 | .03396 | 30.416 | 6.0220 | .24333 | 527.02 | 40.721 | -.00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass |
| High Limit | | | | | | | 500.00 | 20.000 | |
| Low Limit | | | | | | | -.10000 | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1656.6** | **.35340** | **2.4025** | **.00711** | **1269.5** | **-.00161** | **-.00110** | **7.9263** | **-.00086** |
| Stddev | 10.8 | .00009 | .0231 | .00008 | .2 | .00236 | .00218 | .0416 | .00099 |
| %RSD | .64941 | .02649 | .96002 | 1.1897 | .01669 | 146.67 | 199.17 | .52534 | 114.86 |
| #1 | 1649.0 | .35346 | 2.3862 | .00717 | 1269.6 | -.00327 | -.00264 | 7.8968 | -.00016 |
| #2 | 1664.2 | .35333 | 2.4188 | .00705 | 1269.3 | .00006 | .00045 | 7.9557 | -.00155 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.3404** | **-.00320** | **-.00114** | F **-.03256** | **-.01339** | F **-.02189** | F **83.095** | **.00194** |
| Stddev | .0269 | .00001 | .00028 | .00138 | .05011 | .00075 | .302 | .00009 |
| %RSD | .62049 | .37311 | 24.466 | 4.2363 | 374.25 | 3.4389 | .36321 | 4.7695 |
| #1 | 4.3214 | -.00321 | -.00134 | -.03353 | .02204 | -.02242 | 83.308 | .00187 |
| #2 | 4.3595 | -.00319 | -.00094 | -.03158 | -.04882 | -.02135 | 82.881 | .00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Fail | Chk Pass |
| High Limit | | | | 20.000 | | 50.000 | 50.000 | |
| Low Limit | | | | -.02000 | | -.02000 | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5874.4** | **78591.** | **6175.0** |
| Stddev | 17.0 | 66. | 50.7 |
| %RSD | .29012 | .08431 | .82118 |
| #1 | 5862.3 | 78544. | 6210.9 |
| #2 | 5886.4 | 78638. | 6139.2 |

Sample Name: 280-41983-A-24-A@5 Acquired: 5/14/2013 17:29:50 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **.47432** | **-.00206** | **.07381** | **.00205** | **.00048** | **-.00097** | **104.05** | **1.4915** |
| Stddev | .00008 | .00140 | .00101 | .00042 | .00016 | .00001 | .00130 | 1.10 | .0047 |
| %RSD | 9.2778 | .29453 | 49.030 | .57143 | 7.8869 | 2.9933 | 134.25 | 1.0541 | .31644 |
| #1 | .00091 | .47531 | -.00135 | .07411 | .00194 | .00047 | -.00005 | 103.27 | 1.4949 |
| #2 | .00079 | .47333 | -.00278 | .07352 | .00216 | .00049 | -.00189 | 104.82 | 1.4882 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10680** | **.00001** | **.01174** | **6.3917** | **1.1508** | **.04911** | **112.75** | **9.6184** | **-.00103** |
| Stddev | .00033 | .00012 | .00003 | .0536 | .0477 | .00071 | .11 | .0011 | .00020 |
| %RSD | .30663 | 1235.2 | .23156 | .83836 | 4.1410 | 1.4512 | .09890 | .01178 | 19.131 |
| #1 | .10704 | .00009 | .01176 | 6.3538 | 1.1171 | .04961 | 112.82 | 9.6176 | -.00089 |
| #2 | .10657 | -.00007 | .01172 | 6.4296 | 1.1845 | .04861 | 112.67 | 9.6192 | -.00116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **334.33** | **.07663** | **.52609** | **.00092** | **276.31** | **-.00136** | **-.00308** | **1.5982** | **-.00061** |
| Stddev | 3.81 | .00022 | .00333 | .00081 | .70 | .00060 | .00625 | .0133 | .00051 |
| %RSD | 1.1384 | .28832 | .63321 | 87.901 | .25334 | 43.963 | 203.05 | .83029 | 84.145 |
| #1 | 331.64 | .07679 | .52845 | .00035 | 276.80 | -.00094 | -.00749 | 1.5888 | -.00025 |
| #2 | 337.02 | .07648 | .52374 | .00149 | 275.81 | -.00178 | .00134 | 1.6076 | -.00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.88495** | **-.00156** | **.00010** | **-.00736** | **.00052** | **-.00141** | W **20.364** | **.00005** |
| Stddev | .00695 | .00152 | .00044 | .00025 | .05915 | .00002 | .012 | .00159 |
| %RSD | .78482 | 97.163 | 467.12 | 3.3835 | 11270. | 1.5440 | .06093 | 2971.3 |
| #1 | .88004 | -.00049 | .00041 | -.00719 | -.04130 | -.00139 | 20.373 | -.00107 |
| #2 | .88987 | -.00263 | -.00022 | -.00754 | .04235 | -.00142 | 20.356 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6126.7** | **79189.** | **5992.8** |
| Stddev | 34.4 | 134. | 36.3 |
| %RSD | .56108 | .16891 | .60628 |
| #1 | 6102.4 | 79283. | 6018.5 |
| #2 | 6151.0 | 79094. | 5967.2 |

Sample Name: 280-41983-A-25-A@5 Acquired: 5/14/2013 17:32:24 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **5.3838** | **.00394** | **.06084** | **.00319** | **.00076** | **-.00214** | **95.754** | W **5.1658** |
| Stddev | .00048 | .0330 | .00014 | .00026 | .00033 | .00003 | .00083 | .201 | .0016 |
| %RSD | 453.80 | .61376 | 3.4631 | .42112 | 10.285 | 3.9588 | 38.842 | .20946 | .03040 |
| #1 | -.00045 | 5.4071 | .00404 | .06066 | .00296 | .00074 | -.00273 | 95.896 | 5.1669 |
| #2 | .00024 | 5.3604 | .00385 | .06102 | .00343 | .00078 | -.00155 | 95.612 | 5.1646 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03168** | **.00080** | **.25667** | **1.4645** | **17.785** | **.04792** | **25.598** | **3.2083** | **-.00068** |
| Stddev | .00009 | .00008 | .00007 | .0038 | .075 | .00121 | .072 | .0041 | .00009 |
| %RSD | .29183 | 10.279 | .02677 | .26201 | .42405 | 2.5247 | .28278 | .12845 | 12.708 |
| #1 | .03161 | .00085 | .25671 | 1.4672 | 17.839 | .04878 | 25.649 | 3.2112 | -.00062 |
| #2 | .03174 | .00074 | .25662 | 1.4617 | 17.732 | .04707 | 25.547 | 3.2053 | -.00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **347.79** | **.04225** | **.37509** | **.00174** | **233.22** | **-.00209** | **-.00088** | **3.7360** | **-.00010** |
| Stddev | 1.00 | .00003 | .00515 | .00085 | .08 | .00031 | .00380 | .0156 | .00027 |
| %RSD | .28892 | .07942 | 1.3732 | 48.870 | .03243 | 14.628 | 431.71 | .41777 | 278.47 |
| #1 | 348.50 | .04227 | .37873 | .00235 | 233.27 | -.00231 | -.00356 | 3.7470 | -.00029 |
| #2 | 347.08 | .04223 | .37145 | .00114 | 233.16 | -.00188 | .00180 | 3.7250 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55100** | **-.00325** | **.00018** | **.03882** | **-.01344** | **-.00039** | W **31.014** | **.00009** |
| Stddev | .00200 | .00243 | .00015 | .00002 | .04341 | .00012 | .151 | .00125 |
| %RSD | .36280 | 74.600 | 85.850 | .05567 | 323.01 | 30.035 | .48763 | 1455.0 |
| #1 | .55242 | -.00497 | .00007 | .03880 | .01726 | -.00047 | 31.121 | -.00080 |
| #2 | .54959 | -.00154 | .00029 | .03883 | -.04413 | -.00031 | 30.907 | .00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6264.5** | **81827.** | **6071.5** |
| Stddev | 4.1 | 365. | 5.6 |
| %RSD | .06617 | .44574 | .09265 |
| #1 | 6261.6 | 81569. | 6075.5 |
| #2 | 6267.5 | 82085. | 6067.5 |

Sample Name: 280-41983-A-26-A@5 Acquired: 5/14/2013 17:34:51 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00074** | **1.1128** | **-.00292** | **.05909** | **.00223** | **.00033** | **.00737** | **70.603** | **.91166** |
| Stddev | .00014 | .0033 | .00439 | .00062 | .00016 | .00003 | .00310 | .278 | .00230 |
| %RSD | 18.952 | .29565 | 150.36 | 1.0569 | 7.3992 | 8.3941 | 42.020 | .39336 | .25210 |
| #1 | .00064 | 1.1105 | .00018 | .05865 | .00211 | .00031 | .00518 | 70.406 | .91003 |
| #2 | .00084 | 1.1152 | -.00602 | .05953 | .00234 | .00035 | .00956 | 70.799 | .91328 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09181** | **.00012** | **.01866** | **4.6806** | **3.4634** | **.02046** | **29.129** | **7.7623** | **-.00100** |
| Stddev | .00055 | .00015 | .00012 | .0161 | .0526 | .00002 | .127 | .0299 | .00013 |
| %RSD | .59794 | 124.68 | .66100 | .34396 | 1.5175 | .11472 | .43455 | .38514 | 13.071 |
| #1 | .09142 | .00022 | .01875 | 4.6692 | 3.4262 | .02044 | 29.218 | 7.7834 | -.00091 |
| #2 | .09219 | .00001 | .01858 | 4.6920 | 3.5005 | .02048 | 29.039 | 7.7411 | -.00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **252.59** | **.03496** | **.50493** | **.00152** | **241.65** | **-.00107** | **.00101** | **2.3797** | **-.00047** |
| Stddev | .32 | .00045 | .00791 | .00116 | .36 | .00018 | .00075 | .0317 | .00049 |
| %RSD | .12745 | 1.2992 | 1.5664 | 76.129 | .15103 | 17.277 | 74.535 | 1.3311 | 104.01 |
| #1 | 252.81 | .03464 | .49934 | .00070 | 241.40 | -.00094 | .00154 | 2.3573 | -.00082 |
| #2 | 252.36 | .03528 | .51053 | .00235 | 241.91 | -.00120 | .00048 | 2.4021 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56901** | **.02983** | **.00022** | **.01495** | **.09188** | **-.00114** | W **21.143** | **-.00149** |
| Stddev | .00168 | .00010 | .00023 | .00155 | .04101 | .00079 | .066 | .00065 |
| %RSD | .29500 | .34611 | 104.03 | 10.352 | 44.641 | 69.062 | .31064 | 43.305 |
| #1 | .56782 | .02975 | .00038 | .01386 | .12088 | -.00059 | 21.190 | -.00104 |
| #2 | .57020 | .02990 | .00006 | .01605 | .06288 | -.00170 | 21.097 | -.00195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6183.9** | **81330.** | **5990.0** |
| Stddev | 9.1 | 98. | 32.5 |
| %RSD | .14771 | .12105 | .54195 |
| #1 | 6190.4 | 81260. | 6013.0 |
| #2 | 6177.4 | 81399. | 5967.1 |

Sample Name: 280-41983-A-27-A Acquired: 5/14/2013 17:37:24 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **.45248** | **.01809** | **.10616** | **.13689** | **.00000** | **-.00044** | **73.992** | **.00522** |
| Stddev | .00037 | .00104 | .00034 | .00015 | .00004 | .00001 | .00004 | .338 | .00013 |
| %RSD | 49.645 | .23092 | 1.8699 | .14006 | .02827 | 133.47 | 10.185 | .45745 | 2.5382 |
| #1 | .00101 | .45322 | .01833 | .10627 | .13686 | .00000 | -.00047 | 73.752 | .00512 |
| #2 | .00049 | .45174 | .01785 | .10605 | .13691 | .00001 | -.00041 | 74.231 | .00531 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00354** | **.00139** | **.01438** | **3.5916** | **5.3658** | **.02801** | **11.444** | **1.6356** | **.05685** |
| Stddev | .00018 | .00003 | .00008 | .0010 | .0296 | .00228 | .008 | .0002 | .00001 |
| %RSD | 5.1850 | 2.3928 | .55574 | .02744 | .55093 | 8.1218 | .07077 | .01035 | .01195 |
| #1 | .00367 | .00141 | .01433 | 3.5923 | 5.3867 | .02640 | 11.450 | 1.6357 | .05686 |
| #2 | .00341 | .00137 | .01444 | 3.5909 | 5.3449 | .02962 | 11.438 | 1.6354 | .05685 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.051** | **.00485** | **.95000** | **.01028** | **6.7453** | **.00024** | **.00272** | **6.1121** | **.00020** |
| Stddev | .312 | .00025 | .00497 | .00080 | .0087 | .00232 | .00085 | .0136 | .00004 |
| %RSD | .64887 | 5.2539 | .52306 | 7.7584 | .12881 | 974.32 | 31.208 | .22292 | 22.259 |
| #1 | 48.272 | .00503 | .95351 | .00971 | 6.7515 | .00188 | .00212 | 6.1025 | .00023 |
| #2 | 47.831 | .00467 | .94649 | .01084 | 6.7392 | -.00140 | .00332 | 6.1217 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34685** | **.00068** | **.02112** | **-.00062** | **.02057** | **.00316** | **.07112** | **.00085** |
| Stddev | .00096 | .00057 | .00021 | .00019 | .00314 | .00020 | .00004 | .00035 |
| %RSD | .27817 | 84.044 | .99886 | 30.305 | 15.268 | 6.4265 | .05573 | 40.886 |
| #1 | .34616 | .00028 | .02127 | -.00076 | .01835 | .00301 | .07115 | .00110 |
| #2 | .34753 | .00108 | .02098 | -.00049 | .02279 | .00330 | .07110 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6310.0** | **83085.** | **6055.1** |
| Stddev | 2.4 | 171. | 7.6 |
| %RSD | .03820 | .20557 | .12501 |
| #1 | 6308.3 | 82964. | 6060.4 |
| #2 | 6311.7 | 83206. | 6049.7 |

Sample Name: 280-41983-A-28-A Acquired: 5/14/2013 17:39:46 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **2.4004** | **.02894** | **1.0761** | **.11056** | **.00015** | **.00003** | **159.46** | **.08804** |
| Stddev | .00011 | .0035 | .00142 | .0048 | .00029 | .00000 | .00111 | .09 | .00036 |
| %RSD | 97.125 | .14623 | 4.8916 | .44508 | .25947 | 2.5517 | 4099.6 | .05811 | .41033 |
| #1 | .00019 | 2.3979 | .02995 | 1.0727 | .11076 | .00015 | -.00076 | 159.40 | .08778 |
| #2 | .00004 | 2.4029 | .02794 | 1.0795 | .11035 | .00015 | .00081 | 159.53 | .08830 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00402** | **.00597** | **.02484** | **3.5490** | **20.505** | **.09198** | **52.594** | **.82417** | **.00572** |
| Stddev | .00003 | .00002 | .00053 | .0053 | .009 | .00057 | .024 | .00003 | .00031 |
| %RSD | .83528 | .29648 | 2.1265 | .14967 | .04154 | .62365 | .04630 | .00374 | 5.5083 |
| #1 | .00404 | .00598 | .02521 | 3.5528 | 20.511 | .09157 | 52.576 | .82415 | .00594 |
| #2 | .00399 | .00595 | .02447 | 3.5453 | 20.499 | .09238 | 52.611 | .82419 | .00549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **581.14** | **.01257** | **1.6156** | **.07640** | **264.53** | **.00245** | **.00087** | **8.1848** | **.00060** |
| Stddev | .90 | .00049 | .0009 | .00064 | .63 | .00116 | .00212 | .0084 | .00057 |
| %RSD | .15497 | 3.9318 | .05834 | .84198 | .23706 | 47.521 | 244.24 | .10277 | 96.062 |
| #1 | 580.50 | .01222 | 1.6149 | .07686 | 264.09 | .00327 | -.00063 | 8.1908 | .00100 |
| #2 | 581.78 | .01292 | 1.6162 | .07595 | 264.97 | .00163 | .00237 | 8.1789 | .00019 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92663** | **.00020** | **.10172** | **.00208** | **.04954** | **.00914** | **1.7362** | **.00199** |
| Stddev | .00103 | .00100 | .00019 | .00054 | .00628 | .00035 | .0019 | .00056 |
| %RSD | .11155 | 506.48 | .18459 | 26.049 | 12.668 | 3.7959 | .10905 | 27.870 |
| #1 | .92736 | -.00051 | .10159 | .00246 | .04510 | .00889 | 1.7348 | .00160 |
| #2 | .92590 | .00091 | .10186 | .00169 | .05398 | .00938 | 1.7375 | .00239 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5972.2** | **78278.** | **5903.0** |
| Stddev | 12.1 | 50. | 3.0 |
| %RSD | .20230 | .06415 | .05041 |
| #1 | 5963.7 | 78313. | 5905.1 |
| #2 | 5980.8 | 78242. | 5900.9 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 17:42:45 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00806** | **49.234** | **-.00142** | **-.00394** | **.00053** | **-.00005** | **1.0099** | **-.00378** | **-.00078** | **.00239** | **-.00015** | **.00151** | **49.908** |
| Stddev | .00059 | .249 | .00023 | .00071 | .00028 | .00010 | .0024 | .00333 | .00009 | .00005 | .00013 | .00006 | .381 |
| %RSD | 7.2635 | .50499 | 16.324 | 18.075 | 52.504 | 202.76 | .23447 | 88.217 | 11.212 | 2.0712 | 85.891 | 3.6466 | .76290 |
| #1 | .00848 | 49.409 | -.00126 | -.00445 | .00033 | -.00011 | 1.0083 | -.00614 | -.00072 | .00236 | -.00024 | .00155 | 50.177 |
| #2 | .00765 | 49.058 | -.00159 | -.00344 | .00073 | .00002 | 1.0116 | -.00142 | -.00085 | .00243 | -.00006 | .00147 | 49.638 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22654** | **.00389** | **-.01108** | **-.00069** | **-.00200** | **250.28** | **.00140** | **.01790** | **.00124** | **5.2589** | **-.00115** | **-.00122** | **.01463** |
| Stddev | .06880 | .00201 | .00039 | .00008 | .00003 | 2.26 | .00031 | .00079 | .00108 | .0061 | .00004 | .00023 | .00551 |
| %RSD | 30.370 | 51.732 | 3.5071 | 12.156 | 1.4074 | .90401 | 22.236 | 4.4204 | 87.097 | .11579 | 3.2084 | 19.142 | 37.637 |
| #1 | .27519 | .00246 | -.01135 | -.00063 | -.00202 | 251.88 | .00162 | .01846 | .00201 | 5.2546 | -.00117 | -.00106 | .01852 |
| #2 | .17789 | .00531 | -.01080 | -.00075 | -.00198 | 248.68 | .00118 | .01734 | .00048 | 5.2632 | -.00112 | -.00139 | .01074 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.00025** | **5.0779** | **.00223** | **-.00176** | **9.9803** | **-.00053** | **.00264** | **-.03766** |
| Stddev | .00053 | .00007 | .0068 | .00009 | .00007 | .0166 | .00032 | .00035 | .00422 |
| %RSD | 362.16 | 28.548 | .13433 | 4.1062 | 4.0976 | .16620 | 59.609 | 13.244 | 11.204 |
| #1 | .00023 | .00030 | 5.0731 | .00216 | -.00182 | 9.9685 | -.00031 | .00240 | -.03468 |
| #2 | -.00052 | .00020 | 5.0828 | .00229 | -.00171 | 9.9920 | -.00076 | .00289 | -.04064 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6254.3** | **80270.** | **5868.4** |
| Stddev | 25.4 | 462. | 43.9 |
| %RSD | .40542 | .57496 | .74784 |
| #1 | 6236.4 | 79944. | 5837.3 |
| #2 | 6272.2 | 80597. | 5899.4 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 17:45:10 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51244** | **.47822** | **1.0044** | **.49259** | **.49688** | **.47543** | **-.00107** | **4.9039** | **.50290** | **.50487** | **.49222** | **.49758** |
| Stddev | .00267 | .00059 | .0030 | .00011 | .00241 | .00235 | .00038 | .0294 | .00065 | .00028 | .00025 | .00306 |
| %RSD | .52163 | .12372 | .30300 | .02259 | .48475 | .49505 | 35.037 | .59856 | .12832 | .05505 | .05093 | .61506 |
| #1 | .51055 | .47864 | 1.0022 | .49267 | .49518 | .47376 | -.00134 | 4.8831 | .50336 | .50507 | .49240 | .49542 |
| #2 | .51433 | .47780 | 1.0065 | .49251 | .49859 | .47709 | -.00081 | 4.9246 | .50245 | .50468 | .49205 | .49974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4110** | **49.430** | **.98899** | **20.406** | **.50814** | **.48804** | F **5.5460** | **.49972** | **.99633** | **1.0051** | **.12372** | **1.0063** |
| Stddev | .0012 | .094 | .00447 | .102 | .00379 | .00219 | .0060 | .00164 | .00419 | .0015 | .00076 | .0012 |
| %RSD | .04968 | .18964 | .45187 | .49806 | .74637 | .44906 | .10792 | .32806 | .42094 | .14785 | .61429 | .12067 |
| #1 | 2.4102 | 49.364 | .98583 | 20.335 | .50546 | .48649 | 5.5503 | .50088 | .99336 | 1.0041 | .12426 | 1.0055 |
| #2 | 2.4119 | 49.497 | .99215 | 20.478 | .51082 | .48959 | 5.5418 | .49856 | .99929 | 1.0062 | .12318 | 1.0072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99788** | **4.8304** | **.98193** | **.48359** | **.00068** | **.49814** | **.98371** | **.02500** | **.49707** | **.51391** | **.49161** |
| Stddev | .00301 | .0259 | .00418 | .00200 | .00049 | .00381 | .00450 | .04413 | .00290 | .00284 | .00015 |
| %RSD | .30123 | .53554 | .42519 | .41380 | 71.348 | .76512 | .45749 | 176.54 | .58325 | .55232 | .03073 |
| #1 | .99575 | 4.8121 | .97898 | .48218 | .00034 | .49544 | .98052 | -.00621 | .49502 | .51190 | .49171 |
| #2 | 1.0000 | 4.8487 | .98489 | .48501 | .00103 | .50083 | .98689 | .05620 | .49912 | .51592 | .49150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6449.8** | **84700.** | **6056.7** |
| Stddev | 5.5 | 477. | 1.0 |
| %RSD | .08561 | .56343 | .01687 |
| #1 | 6453.7 | 85038. | 6055.9 |
| #2 | 6445.9 | 84363. | 6057.4 |

Sample Name: CCB Acquired: 5/14/2013 17:47:23 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **-.00023** | **-.00143** | F **-.00603** | **.00004** | **-.00001** | **-.00194** | **-.00317** | **-.00005** | **.00034** | **-.00005** |
| Stddev | .00009 | .00021 | .00002 | .00030 | .00057 | .00003 | .00080 | .00116 | .00005 | .00006 | .00013 |
| %RSD | 100.42 | 90.406 | 1.1783 | 4.9662 | 1336.6 | 286.18 | 41.365 | 36.613 | 108.44 | 16.431 | 281.13 |
| #1 | .00003 | -.00008 | -.00144 | -.00582 | .00044 | -.00004 | -.00251 | -.00399 | -.00001 | .00038 | .00005 |
| #2 | .00015 | -.00038 | -.00142 | -.00625 | -.00036 | .00001 | -.00137 | -.00235 | -.00009 | .00030 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00143** | **.12641** | **.00146** | **-.00072** | **.00002** | **-.00013** | F **.72818** | **-.00031** | **.00835** | **.00078** |
| Stddev | .00011 | .00025 | .00968 | .00014 | .00181 | .00003 | .00018 | .00231 | .00021 | .00060 | .00100 |
| %RSD | 1042.6 | 17.573 | 7.6598 | 9.3224 | 253.11 | 148.47 | 136.16 | .31741 | 69.198 | 7.2233 | 127.61 |
| #1 | -.00009 | .00161 | .13326 | .00136 | -.00200 | -.00000 | -.00000 | .72654 | -.00016 | .00878 | .00008 |
| #2 | .00007 | .00125 | .11957 | .00155 | .00057 | .00005 | -.00026 | .72981 | -.00046 | .00793 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08739** | **-.00177** | **-.00180** | **.01232** | **-.00040** | **.00010** | **.00069** | **.00024** | **.00000** | **.01732** | **-.00003** |
| Stddev | .00209 | .00048 | .00076 | .01115 | .00081 | .00000 | .00069 | .00064 | .00045 | .00576 | .00016 |
| %RSD | 2.3862 | 26.977 | 42.101 | 90.499 | 201.78 | 3.2652 | 101.15 | 265.02 | 44829. | 33.262 | 550.42 |
| #1 | .08887 | -.00143 | -.00127 | .00444 | -.00097 | .00010 | .00118 | -.00021 | .00032 | .01324 | -.00014 |
| #2 | .08592 | -.00211 | -.00234 | .02020 | .00017 | .00010 | .00020 | .00069 | -.00032 | .02139 | .00008 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00228** | **-.00059** |
| Stddev | .00004 | .00072 |
| %RSD | 1.8392 | 121.63 |
| #1 | .00231 | -.00110 |
| #2 | .00225 | -.00008 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6340.8** | **84542.** | **6064.6** |
| Stddev | 136.7 | 233. | 13.5 |
| %RSD | 2.1559 | .27510 | .22190 |
| #1 | 6437.5 | 84707. | 6074.1 |
| #2 | 6244.1 | 84378. | 6055.0 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 17:49:52 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01087** | **.09873** | **.01485** | **.09079** | **.01062** | **.00094** | **.10753** | **.20370** | **.00519** | **.01096** | **.01016** |
| Stddev | .00033 | .00043 | .00017 | .00052 | .00030 | .00002 | .00224 | .00367 | .00018 | .00001 | .00021 |
| %RSD | 3.0604 | .43502 | 1.1764 | .56958 | 2.8204 | 2.4135 | 2.0846 | 1.8040 | 3.5105 | .05538 | 2.0195 |
| #1 | .01064 | .09904 | .01473 | .09042 | .01041 | .00095 | .10595 | .20629 | .00506 | .01095 | .01002 |
| #2 | .01111 | .09843 | .01498 | .09115 | .01083 | .00092 | .10912 | .20110 | .00532 | .01096 | .01031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01572** | **.10094** | **3.1877** | **.01084** | **.21364** | **.01071** | **.01978** | F **1.6842** | **.04141** | **2.9102** | **.00869** |
| Stddev | .00004 | .00003 | .0200 | .00017 | .00183 | .00002 | .00014 | .0077 | .00012 | .0098 | .00021 |
| %RSD | .26401 | .02575 | .62891 | 1.5889 | .85620 | .15370 | .73294 | .45763 | .29841 | .33844 | 2.3941 |
| #1 | .01575 | .10092 | 3.1735 | .01072 | .21235 | .01072 | .01988 | 1.6896 | .04132 | 2.9032 | .00883 |
| #2 | .01569 | .10096 | 3.2018 | .01096 | .21494 | .01070 | .01968 | 1.6787 | .04149 | 2.9172 | .00854 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06761** | **.01031** | **.01353** | **.49899** | **.09912** | **.01009** | **.01578** | **.00998** | **.01405** | **.07159** | **.01034** |
| Stddev | .00099 | .00157 | .00062 | .00478 | .00038 | .00008 | .00134 | .00026 | .00025 | .02495 | .00022 |
| %RSD | 1.4608 | 15.187 | 4.5801 | .95776 | .38133 | .82946 | 8.4712 | 2.5910 | 1.7934 | 34.855 | 2.1706 |
| #1 | .06831 | .01141 | .01397 | .50237 | .09885 | .01015 | .01673 | .01016 | .01387 | .05395 | .01018 |
| #2 | .06691 | .00920 | .01310 | .49561 | .09938 | .01004 | .01484 | .00980 | .01422 | .08924 | .01050 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02453** | **.01502** |
| Stddev | .00069 | .00052 |
| %RSD | 2.8271 | 3.4693 |
| #1 | .02502 | .01466 |
| #2 | .02404 | .01539 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6442.9** | **84806.** | **6042.3** |
| Stddev | 5.4 | 219. | 8.3 |
| %RSD | .08445 | .25879 | .13780 |
| #1 | 6446.7 | 84651. | 6036.4 |
| #2 | 6439.0 | 84961. | 6048.2 |

Sample Name: MB 280-173571/1-A Acquired: 5/14/2013 17:52:16 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00695** | **-.00012** | F **-.00696** | W **.00068** | **-.00009** | **-.00051** | **-.00010** | **.00022** |
| Stddev | .00010 | .00004 | .00075 | .00001 | .00008 | .00009 | .00060 | .00005 | .00004 |
| %RSD | 20.164 | .57085 | 614.48 | .15619 | 11.981 | 101.31 | 118.01 | 55.661 | 17.244 |
| #1 | .00044 | .00698 | .00041 | -.00695 | .00062 | -.00002 | -.00093 | -.00014 | .00019 |
| #2 | .00059 | .00692 | -.00065 | -.00696 | .00074 | -.00015 | -.00008 | -.00006 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | .00058 | | | | |
| Low Limit | | | | -.00343 | -.00058 | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00009** | **-.00008** | **.01609** | **.13291** | **.00119** | **.00012** | **.00013** | **-.00027** |
| Stddev | .00014 | .00017 | .00002 | .00111 | .00575 | .00073 | .00102 | .00006 | .00041 |
| %RSD | 140.38 | 199.91 | 20.541 | 6.9290 | 4.3239 | 61.746 | 873.30 | 47.722 | 153.95 |
| #1 | .00000 | .00021 | -.00009 | .01687 | .12884 | .00171 | .00084 | .00018 | .00002 |
| #2 | .00020 | -.00004 | -.00007 | .01530 | .13697 | .00067 | -.00060 | .00009 | -.00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.66551** | **.00004** | F **.20005** | **.00036** | **.06374** | **-.00120** | **-.00241** | W **.04086** | **.00028** |
| Stddev | .01034 | .00021 | .00154 | .00030 | .00037 | .00144 | .00480 | .00558 | .00051 |
| %RSD | 1.5531 | 484.56 | .76788 | 83.596 | .57947 | 119.97 | 199.19 | 13.651 | 181.32 |
| #1 | .67282 | .00019 | .19896 | .00057 | .06400 | -.00018 | .00099 | .04481 | .00065 |
| #2 | .65820 | -.00010 | .20113 | .00015 | .06348 | -.00221 | -.00581 | .03692 | -.00008 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .20152 | | .02970 | | | | | .03470 | |
| Low Limit | -.20152 | | -.02970 | | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00000** | **.00027** | **-.00014** | **.00047** | **-.01139** | **-.00065** | W **.00638** | **.00004** |
| Stddev | .00002 | .00161 | .00002 | .00008 | .03477 | .00040 | .00023 | .00105 |
| %RSD | 1619.7 | 583.71 | 17.905 | 17.122 | 305.28 | 61.861 | 3.5625 | 2808.7 |
| #1 | -.00002 | .00141 | -.00012 | .00053 | -.03597 | -.00094 | .00654 | .00078 |
| #2 | .00002 | -.00086 | -.00015 | .00041 | .01320 | -.00037 | .00622 | -.00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00453 | |
| Low Limit | | | | | | | -.00453 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6430.3** | **84881.** | **6078.6** |
| Stddev | 46.7 | 356. | 36.1 |
| %RSD | .72679 | .41972 | .59451 |
| #1 | 6463.4 | 84629. | 6053.0 |
| #2 | 6397.3 | 85133. | 6104.1 |

Sample Name: LCS 280-173571/2-A Acquired: 5/14/2013 17:54:43 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05705** | **1.8556** | **1.0352** | **1.0305** | **2.0524** | **.04905** | **2.1013** | **49.915** | **.10649** |
| Stddev | .00050 | .0044 | .0039 | .0022 | .0068 | .00019 | .0056 | .212 | .00012 |
| %RSD | .87125 | .23605 | .37604 | .20947 | .33229 | .39662 | .26417 | .42411 | .11614 |
| #1 | .05740 | 1.8525 | 1.0325 | 1.0290 | 2.0572 | .04919 | 2.0973 | 50.064 | .10640 |
| #2 | .05670 | 1.8587 | 1.0380 | 1.0321 | 2.0475 | .04891 | 2.1052 | 49.765 | .10658 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50816** | **.20132** | **.25545** | **.99600** | **51.013** | **1.0159** | **52.463** | **.51915** | **.99057** |
| Stddev | .00084 | .00032 | .00050 | .00110 | .141 | .0067 | .143 | .00223 | .00118 |
| %RSD | .16481 | .15841 | .19392 | .11065 | .27713 | .65815 | .27250 | .42877 | .11962 |
| #1 | .50757 | .20109 | .25580 | .99522 | 51.113 | 1.0206 | 52.361 | .51757 | .98973 |
| #2 | .50875 | .20155 | .25510 | .99678 | 50.913 | 1.0111 | 52.564 | .52072 | .99140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.174** | **.50014** | **10.445** | **.50665** | **.03766** | **.51934** | **2.0606** | **10.043** | **1.9936** |
| Stddev | .014 | .00126 | .023 | .00110 | .00363 | .00381 | .0068 | .062 | .0084 |
| %RSD | .02635 | .25195 | .21683 | .21663 | 9.6400 | .73369 | .32953 | .62125 | .42249 |
| #1 | 52.183 | .49925 | 10.429 | .50588 | .04023 | .51664 | 2.0558 | 10.087 | 1.9876 |
| #2 | 52.164 | .50104 | 10.461 | .50743 | .03509 | .52203 | 2.0654 | 9.9989 | 1.9995 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98499** | **1.0452** | **1.0274** | **1.9786** | **2.0920** | **.51531** | **.53126** | **.49402** |
| Stddev | .00601 | .0030 | .0050 | .0080 | .0311 | .00241 | .00137 | .00156 |
| %RSD | .61022 | .28826 | .49111 | .40180 | 1.4850 | .46818 | .25783 | .31667 |
| #1 | .98924 | 1.0430 | 1.0239 | 1.9729 | 2.0700 | .51360 | .53029 | .49512 |
| #2 | .98074 | 1.0473 | 1.0310 | 1.9842 | 2.1140 | .51702 | .53223 | .49291 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6219.1** | **81501.** | **5943.2** |
| Stddev | 4.4 | 202. | 30.9 |
| %RSD | .07115 | .24738 | .51983 |
| #1 | 6222.2 | 81644. | 5921.4 |
| #2 | 6216.0 | 81359. | 5965.1 |

Sample Name: 280-41983-A-29-A Acquired: 5/14/2013 17:56:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00304** | **.00063** | **-.00547** | **.00036** | **-.00002** | **-.00007** | **.01109** | **-.00010** |
| Stddev | .00024 | .00003 | .00188 | .00009 | .00001 | .00001 | .00152 | .00083 | .00004 |
| %RSD | 68.150 | .88774 | 296.90 | 1.6967 | 3.8098 | 33.617 | 2344.0 | 7.4555 | 39.382 |
| #1 | .00018 | .00306 | -.00070 | -.00540 | .00035 | -.00002 | .00101 | .01167 | -.00007 |
| #2 | .00051 | .00302 | .00197 | -.00553 | .00037 | -.00003 | -.00114 | .01050 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00008** | **.00615** | **.01870** | **.10053** | **.00162** | **.00220** | **.00022** | **-.00003** |
| Stddev | .00014 | .00002 | .00016 | .00100 | .00497 | .00125 | .00039 | .00005 | .00003 |
| %RSD | 49.879 | 29.471 | 2.6026 | 5.3593 | 4.9417 | 77.009 | 17.646 | 22.978 | 105.65 |
| #1 | .00039 | .00006 | .00603 | .01799 | .10404 | .00251 | .00192 | .00018 | -.00001 |
| #2 | .00019 | .00009 | .00626 | .01941 | .09701 | .00074 | .00247 | .00026 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59865** | **.00038** | **.18373** | **.00077** | **.04913** | **-.00121** | **.00209** | **.03687** | **-.00012** |
| Stddev | .01682 | .00005 | .00242 | .00160 | .00130 | .00148 | .00151 | .00986 | .00002 |
| %RSD | 2.8102 | 14.439 | 1.3161 | 207.45 | 2.6455 | 122.47 | 72.218 | 26.743 | 16.330 |
| #1 | .61054 | .00042 | .18544 | .00190 | .04821 | -.00016 | .00315 | .04384 | -.00014 |
| #2 | .58675 | .00034 | .18202 | -.00036 | .05004 | -.00225 | .00102 | .02990 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00111** | **.00003** | **-.00050** | **.00593** | **-.00017** | **.00736** | **-.00094** |
| Stddev | .00003 | .00066 | .00039 | .00061 | .00340 | .00011 | .00007 | .00200 |
| %RSD | 52.189 | 59.682 | 1183.1 | 121.56 | 57.406 | 65.455 | .93082 | 212.52 |
| #1 | .00009 | .00064 | -.00024 | -.00093 | .00834 | -.00025 | .00741 | -.00235 |
| #2 | .00004 | .00158 | .00031 | -.00007 | .00352 | -.00009 | .00731 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6478.6** | **85620.** | **6056.5** |
| Stddev | 2.0 | 204. | 48.4 |
| %RSD | .03033 | .23811 | .79975 |
| #1 | 6480.0 | 85764. | 6022.3 |
| #2 | 6477.2 | 85475. | 6090.8 |

Sample Name: sd 41983-A-29-A@5 Acquired: 5/14/2013 17:59:23 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00083** | **.00066** | **-.00645** | **.00037** | **.00004** | **-.00149** | **.00076** | **-.00004** |
| Stddev | .00004 | .00016 | .00091 | .00018 | .00046 | .00009 | .00135 | .00216 | .00000 |
| %RSD | 11.656 | 19.343 | 136.33 | 2.7220 | 126.26 | 218.74 | 90.562 | 283.01 | 7.4380 |
| #1 | .00040 | .00072 | .00130 | -.00657 | .00004 | -.00002 | -.00054 | .00229 | -.00004 |
| #2 | .00034 | .00095 | .00002 | -.00632 | .00069 | .00011 | -.00245 | -.00076 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **-.00016** | **.00137** | **.02814** | **.08058** | **.00284** | **.00150** | **.00022** | **.00019** |
| Stddev | .00003 | .00016 | .00036 | .00142 | .01170 | .00062 | .00334 | .00015 | .00000 |
| %RSD | 13.373 | 96.502 | 26.416 | 5.0407 | 14.523 | 21.915 | 221.90 | 66.958 | 1.9607 |
| #1 | .00019 | -.00005 | .00111 | .02714 | .07230 | .00240 | .00386 | .00012 | .00019 |
| #2 | .00023 | -.00027 | .00163 | .02914 | .08885 | .00328 | -.00086 | .00033 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56000** | **.00020** | **.04176** | **-.00070** | **.03937** | **-.00096** | **-.00432** | **.00813** | **-.00052** |
| Stddev | .01104 | .00009 | .00184 | .00003 | .00263 | .00163 | .00187 | .01115 | .00005 |
| %RSD | 1.9710 | 43.591 | 4.3967 | 4.8235 | 6.6675 | 170.37 | 43.254 | 137.23 | 9.5634 |
| #1 | .56780 | .00026 | .04046 | -.00073 | .04123 | .00020 | -.00564 | .01601 | -.00055 |
| #2 | .55219 | .00014 | .04305 | -.00068 | .03751 | -.00212 | -.00300 | .00024 | -.00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00123** | **-.00012** | **-.00156** | **.00022** | **-.00037** | **.00437** | **.00077** |
| Stddev | .00008 | .00085 | .00024 | .00020 | .01248 | .00039 | .00031 | .00205 |
| %RSD | 89.640 | 69.418 | 196.52 | 12.990 | 5804.3 | 107.17 | 6.9857 | 266.01 |
| #1 | .00014 | .00183 | .00005 | -.00142 | .00904 | -.00065 | .00416 | .00222 |
| #2 | .00003 | .00063 | -.00029 | -.00170 | -.00861 | -.00009 | .00459 | -.00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6264.4** | **82097.** | **5898.0** |
| Stddev | 9.0 | 80. | 22.4 |
| %RSD | .14388 | .09790 | .37975 |
| #1 | 6258.0 | 82041. | 5913.9 |
| #2 | 6270.8 | 82154. | 5882.2 |

Sample Name: 280-41983-A-29-B MS  Acquired: 5/14/2013 18:01:53  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05608** | **1.7544** | **.98542** | **.99246** | **1.9255** | **.04613** | **2.0488** | **46.864** | **.10199** |
| Stddev | .00025 | .0023 | .00305 | .00163 | .0006 | .00014 | .0089 | .038 | .00033 |
| %RSD | .44988 | .12994 | .30994 | .16379 | .03059 | .31332 | .43503 | .08014 | .32790 |
| #1 | .05590 | 1.7560 | .98326 | .99361 | 1.9259 | .04603 | 2.0551 | 46.890 | .10222 |
| #2 | .05626 | 1.7528 | .98758 | .99131 | 1.9251 | .04623 | 2.0425 | 46.837 | .10175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47906** | **.18779** | **.24467** | **.92262** | **49.114** | **.96628** | **49.375** | **.48843** | **.94123** |
| Stddev | .00092 | .00003 | .00041 | .00145 | .034 | .00187 | .052 | .00015 | .00194 |
| %RSD | .19152 | .01466 | .16741 | .15700 | .06875 | .19391 | .10576 | .03005 | .20599 |
| #1 | .47971 | .18777 | .24496 | .92365 | 49.090 | .96495 | 49.412 | .48853 | .94260 |
| #2 | .47841 | .18781 | .24438 | .92160 | 49.138 | .96760 | 49.338 | .48832 | .93986 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.051** | **.47067** | **9.9660** | **.49028** | **.02429** | **.49880** | **1.9748** | **9.7448** | **1.8909** |
| Stddev | .105 | .00031 | .0362 | .00156 | .00007 | .00004 | .0028 | .0131 | .0009 |
| %RSD | .20884 | .06514 | .36354 | .31893 | .30034 | .00814 | .14068 | .13486 | .04691 |
| #1 | 49.977 | .47088 | 9.9916 | .48918 | .02434 | .49883 | 1.9768 | 9.7355 | 1.8915 |
| #2 | 50.125 | .47045 | 9.9403 | .49139 | .02424 | .49877 | 1.9729 | 9.7541 | 1.8902 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92495** | **.97360** | **.96750** | **1.9237** | **1.9571** | **.48710** | **.50797** | **.46644** |
| Stddev | .00134 | .00217 | .00061 | .0003 | .0046 | .00098 | .00145 | .00298 |
| %RSD | .14475 | .22313 | .06355 | .01623 | .23408 | .20167 | .28630 | .63955 |
| #1 | .92589 | .97207 | .96707 | 1.9239 | 1.9538 | .48779 | .50900 | .46855 |
| #2 | .92400 | .97514 | .96794 | 1.9235 | 1.9603 | .48640 | .50694 | .46433 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6112.3** | **79471.** | **5783.1** |
| Stddev | 13.0 | 198. | 13.6 |
| %RSD | .21282 | .24925 | .23446 |
| #1 | 6103.1 | 79331. | 5773.5 |
| #2 | 6121.5 | 79611. | 5792.7 |

Sample Name: 280-41983-A-29-C MSD Acquired: 5/14/2013 18:04:05 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05566** | **1.7271** | **.97201** | **.97096** | **1.8858** | **.04498** | **2.0122** | **45.856** | **.10023** |
| Stddev | .00029 | .0002 | .00153 | .00149 | .0153 | .00014 | .0033 | .299 | .00014 |
| %RSD | .51965 | .01008 | .15690 | .15311 | .81127 | .32169 | .16256 | .65302 | .14256 |
| #1 | .05587 | 1.7272 | .97093 | .96991 | 1.8967 | .04509 | 2.0099 | 46.068 | .10013 |
| #2 | .05546 | 1.7270 | .97309 | .97201 | 1.8750 | .04488 | 2.0145 | 45.644 | .10033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47043** | **.18446** | **.24140** | **.89913** | **48.061** | **.94519** | **49.102** | **.48414** | **.91851** |
| Stddev | .00041 | .00016 | .00115 | .00462 | .396 | .00418 | .104 | .00059 | .00054 |
| %RSD | .08648 | .08511 | .47637 | .51422 | .82306 | .44244 | .21149 | .12180 | .05876 |
| #1 | .47014 | .18435 | .24222 | .90240 | 48.341 | .94815 | 49.175 | .48456 | .91813 |
| #2 | .47072 | .18457 | .24059 | .89587 | 47.781 | .94224 | 49.028 | .48372 | .91889 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.764** | **.46243** | **9.7915** | **.47865** | **.02220** | **.48982** | **1.9491** | **9.4906** | **1.8513** |
| Stddev | .163 | .00033 | .0122 | .00124 | .00290 | .00180 | .0095 | .0566 | .0054 |
| %RSD | .33380 | .07073 | .12472 | .26000 | 13.083 | .36661 | .48731 | .59657 | .29110 |
| #1 | 48.879 | .46219 | 9.7828 | .47953 | .02014 | .48855 | 1.9424 | 9.4506 | 1.8475 |
| #2 | 48.649 | .46266 | 9.8001 | .47777 | .02425 | .49109 | 1.9558 | 9.5307 | 1.8551 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90478** | **.96231** | **.95180** | **1.8989** | **1.9396** | **.48156** | **.50528** | **.45633** |
| Stddev | .00750 | .00004 | .00064 | .0089 | .0142 | .00032 | .00005 | .00349 |
| %RSD | .82849 | .00401 | .06681 | .46990 | .73052 | .06671 | .00962 | .76477 |
| #1 | .91008 | .96228 | .95225 | 1.8926 | 1.9496 | .48179 | .50531 | .45386 |
| #2 | .89948 | .96234 | .95136 | 1.9052 | 1.9295 | .48134 | .50524 | .45880 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6079.8** | **77669.** | **5786.9** |
| Stddev | .2 | 186. | 29.0 |
| %RSD | .00272 | .23947 | .50117 |
| #1 | 6079.7 | 77537. | 5766.4 |
| #2 | 6079.9 | 77800. | 5807.4 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 18:06:19 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00707** | **50.383** | **-.00059** | **-.00331** | **.00101** | **.00002** | **1.0060** | **.01241** | **-.00080** | **.00230** | **.00016** | **.00104** | **50.822** |
| Stddev | .00049 | .176 | .00022 | .00045 | .00023 | .00005 | .0008 | .00073 | .00006 | .00005 | .00014 | .00052 | .053 |
| %RSD | 6.9396 | .34852 | 37.728 | 13.726 | 23.281 | 313.84 | .08329 | 5.9040 | 6.9569 | 2.2520 | 91.065 | 49.414 | .10443 |
| #1 | .00742 | 50.507 | -.00075 | -.00299 | .00117 | .00005 | 1.0054 | .01189 | -.00076 | .00234 | .00006 | .00068 | 50.784 |
| #2 | .00672 | 50.259 | -.00043 | -.00364 | .00084 | -.00002 | 1.0066 | .01293 | -.00084 | .00227 | .00026 | .00141 | 50.859 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10434** | **.00321** | **-.01103** | **-.00057** | **-.00187** | **255.46** | **.00118** | **.00500** | **.00068** | **5.1516** | **-.00021** | **-.00209** | **.01040** |
| Stddev | .05140 | .00133 | .00447 | .00000 | .00008 | 1.71 | .00028 | .00034 | .00088 | .0118 | .00094 | .00617 | .00073 |
| %RSD | 49.265 | 41.580 | 40.506 | .86404 | 4.0821 | .66935 | 23.874 | 6.8880 | 128.03 | .22925 | 444.79 | 295.41 | 7.0359 |
| #1 | .14069 | .00227 | -.01419 | -.00057 | -.00182 | 256.66 | .00138 | .00476 | .00130 | 5.1433 | .00045 | -.00645 | .01092 |
| #2 | .06799 | .00415 | -.00787 | -.00057 | -.00193 | 254.25 | .00098 | .00524 | .00006 | 5.1600 | -.00088 | .00228 | .00988 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.00033** | **5.1562** | **.00306** | **-.00230** | **10.044** | **-.00056** | **.00296** | **-.04169** |
| Stddev | .00011 | .00002 | .0078 | .00018 | .00049 | .025 | .00003 | .00013 | .00078 |
| %RSD | 19.084 | 7.6377 | .15041 | 6.0384 | 21.378 | .24445 | 5.4330 | 4.5057 | 1.8804 |
| #1 | .00050 | .00034 | 5.1507 | .00319 | -.00265 | 10.026 | -.00058 | .00286 | -.04114 |
| #2 | .00066 | .00031 | 5.1616 | .00293 | -.00195 | 10.061 | -.00054 | .00305 | -.04225 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6112.9** | **78179.** | **5742.4** |
| Stddev | 12.8 | 300. | 22.4 |
| %RSD | .20885 | .38336 | .39020 |
| #1 | 6121.9 | 78391. | 5726.5 |
| #2 | 6103.8 | 77967. | 5758.2 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 18:08:42 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52096** | **.48258** | **1.0098** | **.49493** | **.49696** | **.47910** | **.00092** | **4.9391** | **.50967** | **.51133** | **.49706** | **.49958** | **2.4274** |
| Stddev | .00521 | .00135 | .0042 | .00112 | .00674 | .00486 | .00113 | .0567 | .00202 | .00243 | .00238 | .00398 | .0085 |
| %RSD | .99959 | .28004 | .41887 | .22644 | 1.3567 | 1.0150 | 123.06 | 1.1488 | .39570 | .47528 | .47974 | .79598 | .35099 |
| #1 | .51728 | .48353 | 1.0128 | .49573 | .50173 | .48254 | .00172 | 4.9792 | .51110 | .51305 | .49874 | .49677 | 2.4334 |
| #2 | .52464 | .48162 | 1.0068 | .49414 | .49219 | .47566 | .00012 | 4.8990 | .50824 | .50961 | .49537 | .50239 | 2.4214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.724** | **.99716** | **20.786** | **.51805** | **.48955** | **5.1747** | **.50621** | **.98062** | **1.0188** | **.01689** | **1.0143** | **.99824** | **4.8596** |
| Stddev | .607 | .00902 | .173 | .00503 | .00187 | .0735 | .00166 | .00287 | .0033 | .00062 | .0067 | .00026 | .0189 |
| %RSD | 1.2201 | .90451 | .83399 | .97062 | .38194 | 1.4203 | .32759 | .29244 | .32337 | 3.6995 | .66566 | .02573 | .38861 |
| #1 | 50.153 | 1.0035 | 20.664 | .51449 | .49088 | 5.2267 | .50739 | .98265 | 1.0211 | .01645 | 1.0191 | .99842 | 4.8463 |
| #2 | 49.295 | .99078 | 20.909 | .52161 | .48823 | 5.1227 | .50504 | .97860 | 1.0165 | .01733 | 1.0096 | .99806 | 4.8730 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99000** | **.48253** | **-.00045** | **.50729** | **.98749** | **.00699** | **.50433** | **.52852** | **.49342** |
| Stddev | .00108 | .00693 | .00356 | .00476 | .00471 | .00482 | .00240 | .00398 | .00294 |
| %RSD | .10923 | 1.4359 | 795.17 | .93913 | .47647 | 68.910 | .47604 | .75290 | .59590 |
| #1 | .99077 | .48743 | .00207 | .50392 | .99082 | .00358 | .50263 | .52571 | .49134 |
| #2 | .98924 | .47763 | -.00296 | .51066 | .98417 | .01040 | .50603 | .53133 | .49550 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6176.9** | **80418.** | **5829.2** |
| Stddev | 3.3 | 165. | 65.6 |
| %RSD | .05400 | .20523 | 1.1255 |
| #1 | 6174.6 | 80534. | 5782.8 |
| #2 | 6179.3 | 80301. | 5875.6 |

Sample Name: CCB Acquired: 5/14/2013 18:10:56 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **-.00021** | **.00040** | F **-.00591** | **.00041** | **.00001** | **-.00269** | **-.00416** | **-.00009** | **.00016** | **-.00003** |
| Stddev | .00025 | .00003 | .00250 | .00016 | .00023 | .00007 | .00182 | .00247 | .00007 | .00013 | .00014 |
| %RSD | 75.731 | 13.472 | 632.62 | 2.7888 | 56.626 | 770.04 | 67.537 | 59.521 | 81.977 | 84.625 | 535.33 |
| #1 | -.00051 | -.00023 | .00216 | -.00603 | .00025 | -.00004 | -.00398 | -.00590 | -.00014 | .00006 | .00007 |
| #2 | -.00015 | -.00019 | -.00137 | -.00579 | .00057 | .00006 | -.00141 | -.00241 | -.00004 | .00025 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00048** | **.02751** | **-.00219** | **.00027** | **.00004** | **.00009** | F **.40874** | **-.00004** | **-.00225** | **.00022** |
| Stddev | .00005 | .00400 | .04713 | .00122 | .00283 | .00001 | .00034 | .01658 | .00002 | .00199 | .00072 |
| %RSD | 36.142 | 837.75 | 171.34 | 55.548 | 1040.9 | 26.084 | 395.01 | 4.0575 | 37.229 | 88.427 | 327.83 |
| #1 | .00011 | -.00235 | -.00582 | -.00305 | .00227 | .00004 | .00032 | .39701 | -.00003 | -.00365 | .00073 |
| #2 | .00019 | .00330 | .06083 | -.00133 | -.00173 | .00005 | -.00015 | .42047 | -.00005 | -.00084 | -.00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01958** | **-.00097** | **-.00164** | **-.00001** | **-.00033** | **-.00010** | **-.00069** | **-.00019** | **-.00064** | **.03215** | **-.00000** |
| Stddev | .00584 | .00097 | .00163 | .00252 | .00037 | .00009 | .00117 | .00027 | .00073 | .02483 | .00004 |
| %RSD | 29.808 | 99.919 | 99.382 | 26497. | 110.15 | 82.772 | 170.06 | 142.56 | 113.47 | 77.258 | 4225.3 |
| #1 | .02371 | -.00166 | -.00279 | -.00179 | -.00060 | -.00017 | -.00152 | -.00038 | -.00013 | .04971 | .00003 |
| #2 | .01546 | -.00028 | -.00049 | .00177 | -.00007 | -.00004 | .00014 | .00000 | -.00116 | .01458 | -.00003 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00258** | **.00112** |
| Stddev | .00012 | .00285 |
| %RSD | 4.7136 | 254.48 |
| #1 | .00250 | .00314 |
| #2 | .00267 | -.00090 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6203.4** | **80809.** | **5788.1** |
| Stddev | 10.8 | 165. | 23.7 |
| %RSD | .17409 | .20457 | .40887 |
| #1 | 6195.7 | 80692. | 5771.4 |
| #2 | 6211.0 | 80926. | 5804.9 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 18:13:23 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01082** | **.10007** | **.01402** | **.09276** | **.01051** | **.00097** | **.10757** | **.20311** | **.00553** | **.01102** | **.01050** |
| Stddev | .00031 | .00016 | .00036 | .00057 | .00020 | .00005 | .00079 | .00162 | .00008 | .00012 | .00018 |
| %RSD | 2.8642 | .16319 | 2.5325 | .61209 | 1.9102 | 5.1027 | .73783 | .79667 | 1.3801 | 1.0624 | 1.6797 |
| #1 | .01060 | .09995 | .01377 | .09317 | .01065 | .00094 | .10700 | .20196 | .00547 | .01094 | .01038 |
| #2 | .01104 | .10018 | .01427 | .09236 | .01037 | .00101 | .10813 | .20425 | .00558 | .01111 | .01063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01518** | **.10501** | **3.1901** | F **.01346** | **.22128** | **.01094** | **.01974** | F **1.3869** | **.04232** | **2.9458** | **.00932** |
| Stddev | .00035 | .00030 | .0217 | .00164 | .00005 | .00005 | .00000 | .0270 | .00062 | .0012 | .00117 |
| %RSD | 2.3204 | .28527 | .68104 | 12.187 | .02385 | .44279 | .01608 | 1.9430 | 1.4663 | .03980 | 12.537 |
| #1 | .01493 | .10480 | 3.2054 | .01461 | .22131 | .01091 | .01975 | 1.4059 | .04276 | 2.9467 | .00850 |
| #2 | .01543 | .10522 | 3.1747 | .01230 | .22124 | .01098 | .01974 | 1.3678 | .04188 | 2.9450 | .01015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01776** | **.00956** | **.01472** | **.49548** | **.10120** | **.01003** | **.01569** | **.01028** | **.01542** | F **.10858** | **.01007** |
| Stddev | .00175 | .00211 | .00502 | .00454 | .00067 | .00014 | .00085 | .00001 | .00072 | .00363 | .00038 |
| %RSD | 9.8714 | 22.044 | 34.067 | .91530 | .66214 | 1.3957 | 5.4353 | .05682 | 4.6666 | 3.3406 | 3.7237 |
| #1 | .01899 | .01104 | .01827 | .49227 | .10073 | .00993 | .01508 | .01029 | .01593 | .10602 | .01034 |
| #2 | .01652 | .00807 | .01118 | .49869 | .10168 | .01013 | .01629 | .01028 | .01491 | .11115 | .00981 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02407** | **.01655** |
| Stddev | .00004 | .00144 |
| %RSD | .17637 | 8.6810 |
| #1 | .02410 | .01553 |
| #2 | .02404 | .01756 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6253.3** | **81928.** | **5858.7** |
| Stddev | 6.7 | 308. | 70.1 |
| %RSD | .10649 | .37607 | 1.1968 |
| #1 | 6248.6 | 82146. | 5809.1 |
| #2 | 6258.0 | 81710. | 5908.3 |

Sample Name: 280-41983-A-30-A Acquired: 5/14/2013 18:15:49 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00353** | **.00074** | **-.00633** | **-.00001** | **-.00012** | **-.00040** | **.01701** | **.00000** |
| Stddev | .00045 | .00015 | .00088 | .00013 | .00010 | .00003 | .00055 | .00102 | .00008 |
| %RSD | 257.16 | 4.3858 | 119.25 | 2.0927 | 716.56 | 27.724 | 136.36 | 5.9801 | 3121.6 |
| #1 | .00050 | .00364 | .00136 | -.00624 | -.00008 | -.00010 | -.00079 | .01773 | -.00005 |
| #2 | -.00014 | .00342 | .00012 | -.00642 | .00005 | -.00015 | -.00001 | .01629 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00010** | **.01231** | **.01524** | **.03171** | **.00289** | **.00269** | **.00015** | **.00005** |
| Stddev | .00000 | .00017 | .00003 | .00055 | .07022 | .00041 | .00039 | .00002 | .00022 |
| %RSD | .19563 | 170.60 | .24469 | 3.6398 | 221.45 | 14.155 | 14.388 | 11.170 | 430.07 |
| #1 | .00044 | .00022 | .01229 | .01485 | .08136 | .00318 | .00241 | .00016 | .00021 |
| #2 | .00043 | -.00002 | .01233 | .01563 | -.01794 | .00260 | .00296 | .00014 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39136** | **.00193** | **.18376** | **-.00068** | **.02355** | **-.00298** | **-.00161** | **.02446** | **.00039** |
| Stddev | .00037 | .00025 | .00137 | .00017 | .00275 | .00157 | .00127 | .00580 | .00053 |
| %RSD | .09403 | 13.078 | .74418 | 25.543 | 11.693 | 52.824 | 78.651 | 23.696 | 137.39 |
| #1 | .39110 | .00210 | .18280 | -.00056 | .02549 | -.00409 | -.00250 | .02856 | .00001 |
| #2 | .39162 | .00175 | .18473 | -.00080 | .02160 | -.00186 | -.00071 | .02036 | .00077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00038** | **-.00005** | **-.00073** | **.02967** | **-.00002** | **.01495** | **.00006** |
| Stddev | .00008 | .00060 | .00020 | .00075 | .02055 | .00010 | .00024 | .00245 |
| %RSD | 50.243 | 158.68 | 373.96 | 101.84 | 69.252 | 521.72 | 1.5890 | 3841.9 |
| #1 | .00010 | -.00081 | .00009 | -.00021 | .04420 | -.00009 | .01512 | -.00167 |
| #2 | .00021 | .00005 | -.00019 | -.00126 | .01514 | .00005 | .01478 | .00179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6368.3** | **83029.** | **5952.0** |
| Stddev | 17.9 | 250. | 56.6 |
| %RSD | .28155 | .30147 | .95108 |
| #1 | 6381.0 | 82852. | 5912.0 |
| #2 | 6355.6 | 83206. | 5992.0 |

Sample Name: 280-41983-A-31-A Acquired: 5/14/2013 18:18:18 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00042** | **.00579** | **.00089** | **.00419** | **.00172** | **-.00006** | **-.00053** | **5.1592** | **.00023** |
| Stddev | .00012 | .00019 | .00032 | .00094 | .00022 | .00001 | .00120 | .0362 | .00007 |
| %RSD | 27.447 | 3.3496 | 35.585 | 22.426 | 12.965 | 21.802 | 225.39 | .70170 | 28.602 |
| #1 | -.00051 | .00565 | .00066 | .00352 | .00188 | -.00005 | .00032 | 5.1848 | .00018 |
| #2 | -.00034 | .00592 | .00111 | .00485 | .00156 | -.00006 | -.00138 | 5.1336 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00143** | **.00030** | **.00136** | **.02398** | **.30319** | **.00477** | **1.3878** | **.22391** | **.00004** |
| Stddev | .00026 | .00006 | .00031 | .00152 | .00862 | .00094 | .0093 | .00213 | .00013 |
| %RSD | 18.054 | 20.155 | 22.830 | 6.3476 | 2.8433 | 19.760 | .67287 | .95332 | 303.72 |
| #1 | .00125 | .00035 | .00158 | .02505 | .30929 | .00410 | 1.3812 | .22240 | -.00005 |
| #2 | .00161 | .00026 | .00114 | .02290 | .29710 | .00543 | 1.3944 | .22542 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.680** | **.00224** | **.14447** | **.00102** | **8.4958** | **.00053** | **-.00418** | **.19083** | **.00003** |
| Stddev | .094 | .00055 | .00183 | .00217 | .0457 | .00022 | .00333 | .01093 | .00048 |
| %RSD | .80791 | 24.740 | 1.2663 | 214.13 | .53806 | 41.365 | 79.674 | 5.7279 | 1789.9 |
| #1 | 11.747 | .00185 | .14576 | -.00052 | 8.4635 | .00038 | -.00182 | .18310 | .00037 |
| #2 | 11.614 | .00263 | .14317 | .00255 | 8.5281 | .00069 | -.00653 | .19856 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02162** | **-.00105** | **.00015** | **-.00200** | **.02786** | **-.00051** | **.01390** | **.00194** |
| Stddev | .00039 | .00052 | .00002 | .00014 | .02013 | .00036 | .00068 | .00208 |
| %RSD | 1.8141 | 49.746 | 14.639 | 6.9763 | 72.242 | 69.768 | 4.9260 | 106.97 |
| #1 | .02190 | -.00068 | .00013 | -.00210 | .04209 | -.00077 | .01438 | .00047 |
| #2 | .02135 | -.00143 | .00016 | -.00190 | .01363 | -.00026 | .01342 | .00341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6304.7** | **82215.** | **5933.0** |
| Stddev | 37.2 | 534. | 50.0 |
| %RSD | .59007 | .64906 | .84271 |
| #1 | 6331.0 | 82592. | 5897.7 |
| #2 | 6278.4 | 81837. | 5968.4 |

Sample Name: 280-41983-A-32-A Acquired: 5/14/2013 18:20:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.07447** | **-.00103** | **.00094** | **.00092** | **.00009** | **-.00015** | **3.9901** | **.02225** |
| Stddev | .00005 | .00012 | .00138 | .00013 | .00005 | .00001 | .00068 | .0065 | .00006 |
| %RSD | 13.168 | .15717 | 134.13 | 13.712 | 5.7524 | 10.007 | 443.08 | .16362 | .27519 |
| #1 | .00043 | .07455 | -.00201 | .00103 | .00095 | .00009 | .00033 | 3.9855 | .02220 |
| #2 | .00035 | .07439 | -.00005 | .00085 | .00088 | .00010 | -.00064 | 3.9947 | .02229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00570** | **.00020** | **.00876** | **.07204** | **.07883** | **.00161** | **.77411** | **.25714** | **.00017** |
| Stddev | .00021 | .00001 | .00034 | .00108 | .05874 | .00168 | .00355 | .00050 | .00029 |
| %RSD | 3.7680 | 3.6768 | 3.9239 | 1.5039 | 74.513 | 104.20 | .45874 | .19441 | 169.73 |
| #1 | .00555 | .00020 | .00900 | .07127 | .12037 | .00042 | .77662 | .25749 | .00038 |
| #2 | .00585 | .00019 | .00852 | .07280 | .03730 | .00280 | .77160 | .25678 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.3269** | **.00308** | **.14273** | **.00130** | **7.3632** | **-.00076** | **-.00181** | **.31127** | **.00047** |
| Stddev | .0030 | .00014 | .00018 | .00045 | .0231 | .00017 | .00100 | .00945 | .00039 |
| %RSD | .04759 | 4.5104 | .12400 | 34.749 | .31413 | 22.756 | 55.347 | 3.0348 | 83.813 |
| #1 | 6.3290 | .00298 | .14286 | .00162 | 7.3468 | -.00088 | -.00110 | .30459 | .00019 |
| #2 | 6.3247 | .00318 | .14260 | .00098 | 7.3796 | -.00064 | -.00252 | .31795 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01134** | **-.00160** | **-.00018** | **-.00112** | **.02610** | **.00016** | **.42061** | **.00064** |
| Stddev | .00000 | .00113 | .00028 | .00083 | .02599 | .00018 | .00256 | .00088 |
| %RSD | .02683 | 70.447 | 154.43 | 74.286 | 99.593 | 114.69 | .60870 | 136.91 |
| #1 | .01133 | -.00080 | -.00038 | -.00171 | .04448 | .00029 | .42242 | .00002 |
| #2 | .01134 | -.00239 | .00002 | -.00053 | .00772 | .00003 | .41880 | .00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6259.4** | **81689.** | **5776.6** |
| Stddev | 27.5 | 232. | 44.6 |
| %RSD | .43952 | .28343 | .77153 |
| #1 | 6239.9 | 81525. | 5745.1 |
| #2 | 6278.8 | 81853. | 5808.1 |

Sample Name: 280-41983-A-33-A Acquired: 5/14/2013 18:23:09 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.01007** | **.02349** | **1.5226** | **.03674** | **-.00002** | **-.00136** | **255.64** | **.00019** |
| Stddev | .00023 | .00004 | .00194 | .0059 | .00004 | .00009 | .00147 | .42 | .00003 |
| %RSD | 43.817 | .39874 | 8.2562 | .38846 | .10657 | 601.49 | 107.75 | .16396 | 15.297 |
| #1 | .00037 | .01004 | .02212 | 1.5267 | .03676 | .00005 | -.00032 | 255.93 | .00017 |
| #2 | .00070 | .01010 | .02486 | 1.5184 | .03671 | -.00008 | -.00240 | 255.34 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00816** | **.00046** | **.00224** | **6.8156** | **4.6978** | **.02723** | **77.957** | **3.2582** | **.00477** |
| Stddev | .00020 | .00002 | .00029 | .0817 | .0546 | .00039 | .194 | .0008 | .00009 |
| %RSD | 2.4141 | 3.2791 | 12.822 | 1.1980 | 1.1618 | 1.4144 | .24899 | .02543 | 1.8800 |
| #1 | .00802 | .00045 | .00204 | 6.8733 | 4.6592 | .02696 | 78.094 | 3.2576 | .00484 |
| #2 | .00830 | .00047 | .00244 | 6.7578 | 4.7363 | .02750 | 77.820 | 3.2588 | .00471 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **614.70** | **.00949** | **1.6163** | **.00221** | **184.42** | **-.00032** | **-.00176** | **8.7905** | **-.00007** |
| Stddev | 1.61 | .00034 | .0212 | .00034 | .53 | .00063 | .00122 | .0144 | .00066 |
| %RSD | .26208 | 3.5682 | 1.3092 | 15.245 | .28628 | 193.16 | 69.319 | .16395 | 940.14 |
| #1 | 615.84 | .00925 | 1.6013 | .00244 | 184.80 | -.00077 | -.00262 | 8.7803 | .00040 |
| #2 | 613.56 | .00973 | 1.6312 | .00197 | 184.05 | .00012 | -.00090 | 8.8006 | -.00054 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95484** | **.00087** | **.00155** | **-.00159** | **.25403** | **.00144** | **.05566** | **.00123** |
| Stddev | .00137 | .00045 | .00013 | .00118 | .00418 | .00003 | .00016 | .00121 |
| %RSD | .14374 | 51.719 | 8.3761 | 74.405 | 1.6454 | 2.0577 | .28964 | 98.091 |
| #1 | .95581 | .00119 | .00165 | -.00243 | .25108 | .00146 | .05577 | .00038 |
| #2 | .95387 | .00055 | .00146 | -.00075 | .25699 | .00142 | .05555 | .00208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5889.3** | **76924.** | **5728.3** |
| Stddev | 12.0 | 783. | 64.8 |
| %RSD | .20388 | 1.0180 | 1.1305 |
| #1 | 5880.8 | 76371. | 5682.5 |
| #2 | 5897.8 | 77478. | 5774.1 |

Sample Name: 280-41983-A-34-A Acquired: 5/14/2013 18:26:17 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173571 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00596** | **.02851** | **.11068** | **.50081** | **.04294** | **.00005** | **-.00141** | **275.26** | **.04418** |
| Stddev | .00039 | .00015 | .00056 | .00070 | .00005 | .00003 | .00152 | 5.02 | .00002 |
| %RSD | 6.5501 | .52859 | .50956 | .13946 | .10672 | 53.620 | 107.91 | 1.8229 | .04221 |
| #1 | .00624 | .02840 | .11028 | .50031 | .04297 | .00003 | -.00033 | 271.72 | .04419 |
| #2 | .00569 | .02861 | .11108 | .50130 | .04290 | .00007 | -.00248 | 278.81 | .04416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14449** | **.00035** | **.00191** | **7.7778** | **9.3659** | **.20655** | **66.923** | F **36.245** | **.00035** |
| Stddev | .00095 | .00003 | .00032 | .0195 | .0790 | .00098 | .052 | .186 | .00011 |
| %RSD | .65771 | 8.6614 | 16.527 | .25098 | .84405 | .47492 | .07717 | .51227 | 30.376 |
| #1 | .14381 | .00033 | .00214 | 7.7916 | 9.4218 | .20585 | 66.887 | 36.376 | .00042 |
| #2 | .14516 | .00037 | .00169 | 7.7639 | 9.3100 | .20724 | 66.960 | 36.113 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **542.74** | **.06480** | **1.4477** | **.00566** | **416.40** | **-.00200** | **-.00174** | **10.129** | **-.00100** |
| Stddev | 1.85 | .00000 | .0134 | .00070 | .05 | .00396 | .00231 | .008 | .00080 |
| %RSD | .34089 | .00715 | .92617 | 12.426 | .01097 | 198.55 | 132.61 | .07484 | 79.654 |
| #1 | 544.05 | .06480 | 1.4383 | .00616 | 416.37 | -.00480 | -.00011 | 10.123 | -.00044 |
| #2 | 541.43 | .06479 | 1.4572 | .00517 | 416.43 | .00081 | -.00338 | 10.134 | -.00156 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1300** | **-.00459** | **.00098** | F **-.02756** | **-.01580** | W **-.01996** | **2.1717** | **.00096** |
| Stddev | .0001 | .00037 | .00000 | .00078 | .00206 | .00014 | .0036 | .00024 |
| %RSD | .00490 | 8.1430 | .02501 | 2.8215 | 13.014 | .71134 | .16738 | 25.021 |
| #1 | 1.1300 | -.00433 | .00098 | -.02701 | -.01726 | -.01986 | 2.1692 | .00113 |
| #2 | 1.1301 | -.00485 | .00098 | -.02811 | -.01435 | -.02006 | 2.1743 | .00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | 20.000 | | 45.000 | | |
| Low Limit | | | | -.02000 | | -.01000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5979.9** | **79184.** | **5904.8** |
| Stddev | 1.9 | 2. | 9.0 |
| %RSD | .03199 | .00290 | .15292 |
| #1 | 5981.2 | 79186. | 5898.4 |
| #2 | 5978.5 | 79183. | 5911.2 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 18:29:28 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00809** | **49.624** | **.00055** | **-.00395** | **.00046** | **-.00005** | **1.0109** | **-.00296** | **-.00071** | **.00224** | **.00012** | **.00070** | **50.696** |
| Stddev | .00006 | .110 | .00174 | .00039 | .00010 | .00009 | .0002 | .00075 | .00003 | .00002 | .00013 | .00024 | .046 |
| %RSD | .68710 | .22153 | 318.21 | 9.9172 | 21.721 | 169.77 | .02030 | 25.240 | 4.6504 | 1.0181 | 108.14 | 33.652 | .09109 |
| #1 | .00805 | 49.546 | -.00068 | -.00367 | .00039 | .00001 | 1.0111 | -.00349 | -.00068 | .00225 | .00022 | .00087 | 50.663 |
| #2 | .00813 | 49.702 | .00178 | -.00423 | .00053 | -.00011 | 1.0108 | -.00243 | -.00073 | .00222 | .00003 | .00054 | 50.728 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10518** | **.00248** | **-.01359** | **-.00056** | **-.00200** | **253.18** | **.00101** | **.03767** | **-.00130** | **5.2301** | **-.00275** | **.00062** | **.00329** |
| Stddev | .05173 | .00124 | .00117 | .00007 | .00003 | .46 | .00032 | .00456 | .00003 | .0070 | .00027 | .00387 | .00951 |
| %RSD | 49.185 | 49.952 | 8.6430 | 12.990 | 1.7417 | .18272 | 31.735 | 12.094 | 2.6213 | .13465 | 9.8347 | 624.72 | 288.82 |
| #1 | .06860 | .00335 | -.01276 | -.00050 | -.00202 | 253.51 | .00078 | .04089 | -.00128 | 5.2351 | -.00294 | .00336 | .01002 |
| #2 | .14176 | .00160 | -.01442 | -.00061 | -.00197 | 252.86 | .00123 | .03445 | -.00133 | 5.2252 | -.00256 | -.00212 | -.00343 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00035** | **5.1083** | **.00287** | **-.00270** | **9.9992** | **-.00022** | **.00350** | **-.04170** |
| Stddev | .00044 | .00005 | .0112 | .00018 | .00086 | .0350 | .00042 | .00009 | .00101 |
| %RSD | 848.11 | 14.637 | .22010 | 6.1241 | 31.669 | .34969 | 191.64 | 2.6790 | 2.4262 |
| #1 | -.00037 | .00038 | 5.1162 | .00299 | -.00210 | 10.024 | .00008 | .00357 | -.04242 |
| #2 | .00026 | .00031 | 5.1003 | .00274 | -.00331 | 9.9745 | -.00052 | .00344 | -.04099 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6242.5** | **81509.** | **6004.5** |
| Stddev | 8.1 | 258. | 5.6 |
| %RSD | .12983 | .31681 | .09352 |
| #1 | 6236.7 | 81327. | 6008.4 |
| #2 | 6248.2 | 81692. | 6000.5 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 18:32:12 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52011** | **.47937** | **1.0067** | **.49155** | **.49718** | **.47784** | **.00068** | **4.9602** | **.50750** | **.50941** | **.49147** | **.49616** | **2.4222** | **49.499** |
| Stddev | .00237 | .00026 | .0032 | .00254 | .00202 | .00244 | .00128 | .0255 | .00202 | .00098 | .00053 | .00278 | .0166 | .287 |
| %RSD | .45651 | .05437 | .32250 | .51693 | .40702 | .50971 | 186.45 | .51458 | .39783 | .19164 | .10882 | .56060 | .68653 | .57903 |
| #1 | .52179 | .47918 | 1.0044 | .48976 | .49862 | .47956 | .00159 | 4.9782 | .50607 | .50872 | .49109 | .49812 | 2.4340 | 49.701 |
| #2 | .51843 | .47955 | 1.0090 | .49335 | .49575 | .47612 | -.00022 | 4.9422 | .50893 | .51010 | .49184 | .49419 | 2.4104 | 49.296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99726** | **20.609** | **.51512** | **.48512** | **5.1746** | **.50202** | **.98958** | **1.0116** | **.04210** | **1.0111** | **.99469** | **4.8513** | **.97760** | **.48046** |
| Stddev | .00499 | .094 | .00215 | .00085 | .0267 | .00019 | .00046 | .0013 | .00735 | .0025 | .00180 | .0381 | .00242 | .00289 |
| %RSD | .50031 | .45498 | .41725 | .17560 | .51541 | .03796 | .04677 | .13024 | 17.457 | .24543 | .18098 | .78438 | .24744 | .60053 |
| #1 | 1.0008 | 20.676 | .51664 | .48573 | 5.1935 | .50189 | .98925 | 1.0106 | .04729 | 1.0093 | .99596 | 4.8782 | .97931 | .48250 |
| #2 | .99374 | 20.543 | .51360 | .48452 | 5.1557 | .50216 | .98991 | 1.0125 | .03690 | 1.0128 | .99341 | 4.8244 | .97589 | .47842 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00154** | **.50471** | **.98135** | **.00027** | **.50024** | **.52339** | **.49606** |
| Stddev | .00075 | .00266 | .00218 | .01361 | .00009 | .00266 | .00145 |
| %RSD | 49.005 | .52800 | .22199 | 5058.8 | .01831 | .50738 | .29320 |
| #1 | .00100 | .50659 | .98289 | -.00936 | .50017 | .52527 | .49709 |
| #2 | .00207 | .50283 | .97981 | .00989 | .50030 | .52151 | .49503 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6380.8** | **82858.** | **6011.2** |
| Stddev | 12.3 | 511. | 62.8 |
| %RSD | .19268 | .61708 | 1.0449 |
| #1 | 6372.1 | 82497. | 5966.8 |
| #2 | 6389.5 | 83220. | 6055.6 |

Sample Name: CCB Acquired: 5/14/2013 18:34:25 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00002** | **-.00108** | F **-.00550** | **.00039** | **.00008** | **-.00333** | **-.00316** | **.00006** | **.00035** | **.00018** |
| Stddev | .00056 | .00034 | .00197 | .00046 | .00003 | .00010 | .00044 | .00373 | .00002 | .00026 | .00016 |
| %RSD | 99.547 | 1454.1 | 182.06 | 8.4038 | 6.5689 | 127.15 | 13.222 | 118.20 | 44.551 | 73.271 | 93.864 |
| #1 | .00017 | .00026 | .00031 | -.00517 | .00037 | .00015 | -.00301 | -.00052 | .00004 | .00053 | .00006 |
| #2 | .00095 | -.00022 | -.00247 | -.00583 | .00041 | .00001 | -.00364 | -.00580 | .00007 | .00017 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00582** | **.01149** | **.05476** | **.00094** | **-.00220** | W **.00048** | **.00008** | F **.44664** | **.00026** | **.00759** | **.00028** |
| Stddev | .00019 | .00088 | .04132 | .00154 | .00415 | .00000 | .00005 | .00534 | .00021 | .00264 | .00006 |
| %RSD | 3.2029 | 7.6131 | 75.453 | 164.33 | 188.58 | .38193 | 61.574 | 1.1955 | 82.703 | 34.824 | 20.265 |
| #1 | .00569 | .01211 | .02554 | .00203 | .00073 | .00048 | .00011 | .44287 | .00011 | .00946 | .00024 |
| #2 | .00595 | .01088 | .08397 | -.00015 | -.00514 | .00048 | .00004 | .45042 | .00041 | .00572 | .00032 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00272 | | | | | .00025 | | .10000 | | | |
| Low Limit | -.00272 | | | | | -.00025 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03513** | **-.00102** | **-.00028** | **.00441** | **.00003** | **.00011** | **.00022** | **.00006** | **-.00138** | **.00427** | **.00001** |
| Stddev | .00095 | .00152 | .00204 | .00953 | .00032 | .00014 | .00110 | .00027 | .00036 | .02756 | .00008 |
| %RSD | 2.6918 | 149.37 | 725.24 | 216.22 | 1263.0 | 135.48 | 513.33 | 491.34 | 26.210 | 645.72 | 765.83 |
| #1 | .03580 | .00006 | .00116 | .01114 | .00025 | .00021 | -.00057 | .00025 | -.00113 | .02376 | -.00004 |
| #2 | .03446 | -.00209 | -.00173 | -.00233 | -.00020 | .00000 | .00100 | -.00014 | -.00164 | -.01522 | .00006 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00403** | **.00215** |
| Stddev | .00045 | .00166 |
| %RSD | 11.152 | 77.013 |
| #1 | .00372 | .00098 |
| #2 | .00435 | .00332 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6379.3** | **83777.** | **6059.5** |
| Stddev | 15.9 | 251. | 106.2 |
| %RSD | .24915 | .29917 | 1.7533 |
| #1 | 6368.1 | 83954. | 5984.4 |
| #2 | 6390.6 | 83600. | 6134.6 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 18:36:54 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01077** | **.09899** | **.01435** | **.09041** | **.01091** | **.00103** | **.10413** | **.20480** | **.00521** | **.01083** | **.01047** | **.01509** |
| Stddev | .00071 | .00047 | .00178 | .00064 | .00022 | .00011 | .00153 | .00466 | .00003 | .00009 | .00012 | .00031 |
| %RSD | 6.6140 | .47899 | 12.433 | .70985 | 2.0450 | 10.443 | 1.4648 | 2.2777 | .65627 | .84236 | 1.1195 | 2.0252 |
| #1 | .01027 | .09933 | .01561 | .08996 | .01106 | .00096 | .10306 | .20809 | .00519 | .01090 | .01055 | .01531 |
| #2 | .01128 | .09866 | .01309 | .09086 | .01075 | .00111 | .10521 | .20150 | .00524 | .01077 | .01039 | .01488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10142** | **3.1130** | F **.01364** | **.21737** | **.01083** | **.01945** | F **1.3995** | **.04153** | **2.8776** | **.00976** | **.02415** | **.00945** |
| Stddev | .00218 | .0277 | .00173 | .00379 | .00001 | .00007 | .0199 | .00003 | .0067 | .00065 | .00222 | .00131 |
| %RSD | 2.1509 | .89087 | 12.683 | 1.7434 | .08401 | .34742 | 1.4189 | .07953 | .23434 | 6.6408 | 9.1793 | 13.905 |
| #1 | .10297 | 3.0934 | .01242 | .22005 | .01082 | .01949 | 1.3854 | .04155 | 2.8824 | .01022 | .02571 | .01038 |
| #2 | .09988 | 3.1326 | .01486 | .21469 | .01083 | .01940 | 1.4135 | .04150 | 2.8728 | .00930 | .02258 | .00852 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .01000 | | | | 1.0000 | | | | | |
| Range | | | 30.000% | | | | 30.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01221** | **.49498** | **.09921** | **.00992** | **.01643** | **.01022** | **.01448** | F **.09400** | **.00971** | **.02376** | **.01610** |
| Stddev | .00422 | .00391 | .00075 | .00010 | .00101 | .00023 | .00034 | .01960 | .00015 | .00022 | .00170 |
| %RSD | 34.544 | .78963 | .75968 | 1.0366 | 6.1632 | 2.2791 | 2.3295 | 20.848 | 1.5010 | .93145 | 10.576 |
| #1 | .00923 | .49222 | .09868 | .00985 | .01714 | .01039 | .01472 | .10785 | .00981 | .02391 | .01730 |
| #2 | .01520 | .49775 | .09974 | .01000 | .01571 | .01006 | .01424 | .08014 | .00961 | .02360 | .01489 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .06000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6525.2** | **84278.** | **6064.2** |
| Stddev | 14.6 | 413. | 24.2 |
| %RSD | .22383 | .49024 | .39871 |
| #1 | 6514.9 | 84570. | 6081.3 |
| #2 | 6535.5 | 83986. | 6047.1 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 19:31:40 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00808** | **49.292** | **-.00040** | **-.00691** | **.00080** | **-.00003** | **1.0068** | **-.00387** | **-.00077** | **.00219** | **-.00005** | **.00156** | **50.294** |
| Stddev | .00027 | .240 | .00226 | .00009 | .00001 | .00003 | .0028 | .00636 | .00009 | .00024 | .00004 | .00024 | .078 |
| %RSD | 3.3098 | .48634 | 565.01 | 1.2759 | 1.0145 | 87.106 | .28125 | 164.21 | 12.376 | 10.847 | 72.832 | 15.418 | .15413 |
| #1 | .00827 | 49.122 | -.00200 | -.00697 | .00081 | -.00005 | 1.0088 | -.00837 | -.00083 | .00202 | -.00002 | .00173 | 50.239 |
| #2 | .00789 | 49.461 | .00120 | -.00685 | .00080 | -.00001 | 1.0048 | .00062 | -.00070 | .00236 | -.00008 | .00139 | 50.349 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00596** | **.00283** | **-.01303** | **-.00069** | **-.00183** | **251.16** | **.00105** | **-.00783** | **.00035** | **5.1362** | **-.00299** | **-.00141** | **.00751** |
| Stddev | .02439 | .00059 | .00116 | .00002 | .00006 | 1.27 | .00039 | .00063 | .00060 | .0073 | .00042 | .00229 | .00316 |
| %RSD | 409.32 | 20.998 | 8.8794 | 2.9225 | 3.2285 | .50594 | 36.802 | 8.1013 | 174.45 | .14289 | 14.021 | 162.22 | 42.115 |
| #1 | -.01129 | .00241 | -.01385 | -.00068 | -.00179 | 250.27 | .00132 | -.00738 | -.00008 | 5.1311 | -.00269 | -.00303 | .00975 |
| #2 | .02320 | .00325 | -.01221 | -.00070 | -.00187 | 252.06 | .00077 | -.00828 | .00077 | 5.1414 | -.00328 | .00021 | .00528 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00022** | **5.0994** | **.00248** | **-.00176** | **10.026** | **-.00041** | **.00258** | **-.04121** |
| Stddev | .00027 | .00005 | .0119 | .00009 | .00005 | .027 | .00026 | .00014 | .00125 |
| %RSD | 70.947 | 23.348 | .23406 | 3.5693 | 2.8603 | .26563 | 63.827 | 5.5100 | 3.0342 |
| #1 | .00019 | .00018 | 5.0909 | .00242 | -.00180 | 10.045 | -.00060 | .00268 | -.04032 |
| #2 | .00056 | .00025 | 5.1078 | .00255 | -.00172 | 10.007 | -.00023 | .00248 | -.04209 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6287.6** | **81503.** | **5954.2** |
| Stddev | 5.0 | 293. | 6.4 |
| %RSD | .07982 | .35889 | .10689 |
| #1 | 6291.1 | 81297. | 5949.7 |
| #2 | 6284.0 | 81710. | 5958.7 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 19:34:09 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51506** | **.49121** | **1.0069** | **.49059** | **.49441** | **.47909** | **.00059** | **4.9229** | **.50396** | **.50720** | **.49390** | **.49855** | **2.4208** | **49.284** |
| Stddev | .00173 | .00002 | .0004 | .00034 | .00079 | .00240 | .00162 | .0149 | .00035 | .00100 | .00009 | .00080 | .0005 | .136 |
| %RSD | .33603 | .00390 | .04414 | .07016 | .15957 | .50197 | 275.08 | .30358 | .06967 | .19640 | .01722 | .16133 | .02186 | .27577 |
| #1 | .51628 | .49123 | 1.0066 | .49083 | .49497 | .48079 | -.00056 | 4.9335 | .50421 | .50790 | .49384 | .49912 | 2.4212 | 49.380 |
| #2 | .51384 | .49120 | 1.0073 | .49035 | .49385 | .47738 | .00173 | 4.9123 | .50371 | .50649 | .49397 | .49798 | 2.4204 | 49.188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98874** | **20.668** | **.51330** | **.48749** | **5.0456** | **.50137** | **.97524** | **1.0052** | **.00746** | **1.0059** | **.99572** | **4.8233** | **.98778** | **.48233** |
| Stddev | .00193 | .005 | .00034 | .00083 | .0094 | .00115 | .00656 | .0031 | .00020 | .0075 | .00087 | .0008 | .00118 | .00187 |
| %RSD | .19559 | .02404 | .06677 | .17113 | .18621 | .22934 | .67291 | .30866 | 2.6459 | .74666 | .08740 | .01669 | .11932 | .38741 |
| #1 | .99011 | 20.671 | .51306 | .48690 | 5.0523 | .50055 | .97060 | 1.0030 | .00760 | 1.0112 | .99633 | 4.8239 | .98862 | .48365 |
| #2 | .98738 | 20.664 | .51354 | .48808 | 5.0390 | .50218 | .97988 | 1.0074 | .00732 | 1.0005 | .99510 | 4.8227 | .98695 | .48101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00206** | **.50332** | **.98281** | **.03930** | **.50086** | **.52365** | **.49139** |
| Stddev | .00168 | .00002 | .00089 | .03710 | .00000 | .00050 | .00090 |
| %RSD | 81.750 | .00373 | .09059 | 94.391 | .00063 | .09512 | .18268 |
| #1 | .00325 | .50331 | .98344 | .01307 | .50086 | .52401 | .49202 |
| #2 | .00087 | .50334 | .98218 | .06553 | .50086 | .52330 | .49075 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6386.2** | **82999.** | **5980.3** |
| Stddev | 8.3 | 59. | 25.4 |
| %RSD | .12988 | .07063 | .42421 |
| #1 | 6380.3 | 83040. | 5962.4 |
| #2 | 6392.1 | 82957. | 5998.3 |

Sample Name: CCB Acquired: 5/14/2013 19:36:22 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **-.00043** | **.00087** | F **-.00766** | **.00046** | **-.00006** | **-.00072** | **-.00140** | **-.00001** | **.00062** | **.00043** |
| Stddev | .00004 | .00030 | .00193 | .00065 | .00027 | .00006 | .00151 | .00174 | .00023 | .00003 | .00019 |
| %RSD | 27.198 | 70.930 | 222.67 | 8.5444 | 58.191 | 111.13 | 210.49 | 124.65 | 1582.1 | 4.8537 | 43.464 |
| #1 | -.00013 | -.00064 | .00223 | -.00720 | .00027 | -.00001 | -.00179 | -.00263 | -.00018 | .00064 | .00030 |
| #2 | -.00019 | -.00021 | -.00050 | -.00813 | .00065 | -.00010 | .00035 | -.00017 | .00015 | .00059 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00222** | **-.00031** | **.00200** | **-.00011** | **.00011** | **-.00004** | F **.22321** | **.00001** | F **-.01021** | **.00001** |
| Stddev | .00047 | .00042 | .02292 | .00068 | .00131 | .00007 | .00010 | .00118 | .00004 | .00235 | .00051 |
| %RSD | 535.00 | 19.005 | 7406.6 | 33.889 | 1188.3 | 63.796 | 255.86 | .52984 | 361.60 | 22.999 | 7391.8 |
| #1 | .00042 | .00192 | -.01652 | .00152 | -.00103 | .00006 | -.00011 | .22405 | -.00002 | -.01187 | -.00035 |
| #2 | -.00024 | .00252 | .01590 | .00248 | .00081 | .00016 | .00003 | .22238 | .00004 | -.00855 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | .10000 | | .01000 | |
| Low Limit | | | | | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00807** | **.00035** | **-.00358** | **.00206** | **-.00022** | **.00002** | **-.00207** | **-.00033** | **.00039** | **.04019** | **-.00010** |
| Stddev | .00546 | .00085 | .00062 | .01569 | .00136 | .00005 | .00208 | .00014 | .00075 | .00766 | .00021 |
| %RSD | 67.675 | 243.84 | 17.404 | 763.24 | 632.80 | 292.90 | 100.58 | 41.602 | 189.88 | 19.065 | 206.68 |
| #1 | .00421 | .00095 | -.00402 | -.00904 | -.00118 | .00005 | -.00060 | -.00042 | -.00013 | .03477 | -.00025 |
| #2 | .01193 | -.00025 | -.00314 | .01315 | .00075 | -.00002 | -.00354 | -.00023 | .00092 | .04561 | .00005 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00266** | **.00132** |
| Stddev | .00023 | .00138 |
| %RSD | 8.7535 | 104.47 |
| #1 | .00283 | .00035 |
| #2 | .00250 | .00230 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6451.9** | **85274.** | **6113.1** |
| Stddev | 16.6 | 290. | 17.8 |
| %RSD | .25763 | .34034 | .29113 |
| #1 | 6463.6 | 85069. | 6125.7 |
| #2 | 6440.1 | 85480. | 6100.5 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 19:38:51 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01030** | **.09631** | **.01493** | **.08788** | **.01005** | **.00091** | **.10429** | **.19189** | **.00524** | **.01067** | **.01000** |
| Stddev | .00017 | .00040 | .00319 | .00036 | .00079 | .00003 | .00088 | .00421 | .00015 | .00029 | .00000 |
| %RSD | 1.6356 | .41163 | 21.386 | .40398 | 7.8318 | 3.3913 | .84276 | 2.1943 | 2.9107 | 2.6891 | .03804 |
| #1 | .01042 | .09603 | .01718 | .08763 | .00949 | .00093 | .10491 | .18891 | .00514 | .01047 | .01000 |
| #2 | .01018 | .09659 | .01267 | .08814 | .01061 | .00088 | .10366 | .19487 | .00535 | .01087 | .01000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01530** | **.09804** | **2.9817** | W **.01245** | **.21118** | **.01051** | **.01906** | **1.1870** | **.04065** | **2.8673** | **.00832** |
| Stddev | .00006 | .00063 | .0377 | .00013 | .00136 | .00007 | .00014 | .0095 | .00008 | .0169 | .00035 |
| %RSD | .37726 | .63757 | 1.2656 | 1.0615 | .64267 | .69281 | .71092 | .79803 | .19132 | .58859 | 4.2397 |
| #1 | .01535 | .09760 | 3.0084 | .01255 | .21214 | .01056 | .01897 | 1.1937 | .04059 | 2.8554 | .00856 |
| #2 | .01526 | .09848 | 2.9550 | .01236 | .21022 | .01046 | .01916 | 1.1803 | .04070 | 2.8793 | .00807 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00807** | **.00838** | **.01482** | **.49057** | **.09785** | **.00985** | **.01459** | **.01025** | **.01453** | F **.10331** | **.01011** |
| Stddev | .00590 | .00048 | .00104 | .00675 | .00048 | .00005 | .00060 | .00023 | .00005 | .04414 | .00042 |
| %RSD | 73.121 | 5.7548 | 7.0252 | 1.3768 | .49307 | .50035 | 4.1264 | 2.1996 | .34221 | 42.721 | 4.1710 |
| #1 | .01224 | .00803 | .01408 | .49534 | .09751 | .00988 | .01416 | .01009 | .01457 | .07210 | .00981 |
| #2 | .00390 | .00872 | .01555 | .48579 | .09819 | .00981 | .01501 | .01041 | .01450 | .13452 | .01041 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02345** | **.01416** |
| Stddev | .00008 | .00123 |
| %RSD | .34892 | 8.7164 |
| #1 | .02339 | .01503 |
| #2 | .02351 | .01329 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6474.7** | **84977.** | **6104.2** |
| Stddev | 6.7 | 41. | 19.3 |
| %RSD | .10329 | .04780 | .31566 |
| #1 | 6469.9 | 85005. | 6090.6 |
| #2 | 6479.4 | 84948. | 6117.8 |

Sample Name: mb 280-173351/1-a Acquired: 5/14/2013 19:55:27 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00712** | **.00024** | W **-.00842** | **.00041** | **-.00001** | **.00022** | **.04316** | **-.00007** |
| Stddev | .00045 | .00012 | .00046 | .00034 | .00012 | .00006 | .00043 | .00411 | .00010 |
| %RSD | 182.80 | 1.7202 | 189.91 | 3.9778 | 29.710 | 640.56 | 190.90 | 9.5280 | 140.98 |
| #1 | -.00056 | .00704 | -.00008 | -.00866 | .00032 | -.00005 | -.00008 | .04025 | -.00014 |
| #2 | .00007 | .00721 | .00057 | -.00819 | .00049 | .00003 | .00053 | .04607 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00015** | **.00086** | **.01528** | **-.01548** | **.00137** | **.01700** | **.00031** | **.00004** |
| Stddev | .00008 | .00013 | .00004 | .00079 | .04463 | .00031 | .00152 | .00001 | .00008 |
| %RSD | 35.477 | 87.737 | 4.4987 | 5.1853 | 288.27 | 22.424 | 8.9711 | 1.8451 | 191.72 |
| #1 | .00016 | .00006 | .00084 | .01584 | .01608 | .00116 | .01592 | .00032 | -.00002 |
| #2 | .00027 | .00025 | .00089 | .01472 | -.04704 | .00159 | .01808 | .00031 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36465** | **-.00012** | F **.07092** | **.00028** | **.04667** | **-.00074** | **-.00293** | **.04411** | **.00688** |
| Stddev | .00479 | .00020 | .00143 | .00017 | .00240 | .00046 | .00099 | .01023 | .00017 |
| %RSD | 1.3147 | 174.88 | 2.0109 | 60.433 | 5.1361 | 62.585 | 33.865 | 23.186 | 2.4310 |
| #1 | .36126 | .00003 | .07193 | .00016 | .04498 | -.00041 | -.00223 | .05134 | .00700 |
| #2 | .36804 | -.00026 | .06991 | .00040 | .04837 | -.00107 | -.00363 | .03688 | .00676 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **-.00099** | **.00064** | **-.00019** | **.03244** | **-.00074** | **.00324** | **-.00156** |
| Stddev | .00011 | .00027 | .00067 | .00083 | .05384 | .00031 | .00020 | .00015 |
| %RSD | 51.461 | 27.335 | 105.37 | 442.97 | 165.97 | 42.649 | 6.1074 | 9.5940 |
| #1 | .00014 | -.00118 | .00016 | -.00077 | .07050 | -.00051 | .00310 | -.00167 |
| #2 | .00030 | -.00080 | .00111 | .00040 | -.00563 | -.00096 | .00338 | -.00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6476.1** | **85373.** | **6163.1** |
| Stddev | 22.8 | 227. | 10.7 |
| %RSD | .35225 | .26535 | .17332 |
| #1 | 6460.0 | 85212. | 6170.7 |
| #2 | 6492.2 | 85533. | 6155.6 |

Sample Name: lcs 280-173351/2-a Acquired: 5/14/2013 19:58:15 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05235** | **1.7975** | **.98808** | **.96277** | **1.9354** | **.04706** | **1.9900** | **47.225** | **.10060** |
| Stddev | .00003 | .0019 | .00354 | .00007 | .0035 | .00016 | .0012 | .056 | .00017 |
| %RSD | .06427 | .10618 | .35869 | .00778 | .17955 | .34277 | .06231 | .11779 | .16997 |
| #1 | .05237 | 1.7988 | .99059 | .96283 | 1.9330 | .04695 | 1.9909 | 47.185 | .10072 |
| #2 | .05232 | 1.7961 | .98558 | .96272 | 1.9379 | .04718 | 1.9891 | 47.264 | .10048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48233** | **.19163** | **.24499** | **.94820** | **48.230** | **.96047** | **49.726** | **.49009** | **.94656** |
| Stddev | .00025 | .00040 | .00013 | .00185 | .028 | .00094 | .003 | .00104 | .00237 |
| %RSD | .05175 | .21009 | .05200 | .19480 | .05812 | .09804 | .00693 | .21289 | .24994 |
| #1 | .48251 | .19192 | .24508 | .94689 | 48.250 | .95980 | 49.728 | .48935 | .94823 |
| #2 | .48215 | .19135 | .24490 | .94950 | 48.210 | .96114 | 49.723 | .49083 | .94488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.803** | **.47771** | **10.012** | **.47829** | **.04259** | **.47003** | **1.9511** | **1.0707** | **1.9002** |
| Stddev | .145 | .00088 | .011 | .00094 | .00127 | .00652 | .0052 | .0051 | .0084 |
| %RSD | .29134 | .18519 | .10561 | .19584 | 2.9832 | 1.3870 | .26479 | .47554 | .44323 |
| #1 | 49.905 | .47833 | 10.019 | .47895 | .04169 | .47464 | 1.9547 | 1.0743 | 1.9062 |
| #2 | 49.700 | .47708 | 10.004 | .47763 | .04349 | .46542 | 1.9474 | 1.0671 | 1.8943 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94539** | **.96018** | **.96780** | **1.8652** | **2.0069** | **.48958** | **.50159** | **.47172** |
| Stddev | .00045 | .00046 | .00219 | .0068 | .0299 | .00063 | .00213 | .00057 |
| %RSD | .04808 | .04824 | .22620 | .36338 | 1.4883 | .12827 | .42383 | .12052 |
| #1 | .94506 | .96051 | .96625 | 1.8700 | 2.0280 | .48913 | .50309 | .47132 |
| #2 | .94571 | .95985 | .96935 | 1.8604 | 1.9857 | .49002 | .50009 | .47213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6268.8** | **82781.** | **5994.3** |
| Stddev | .8 | 358. | 13.3 |
| %RSD | .01237 | .43241 | .22182 |
| #1 | 6269.3 | 82527. | 5984.9 |
| #2 | 6268.2 | 83034. | 6003.7 |

Sample Name: 280-41961-b-1-a Acquired: 5/14/2013 20:00:29 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **81.893** | **.03506** | **.00968** | **.77581** | **.00150** | F **-.04681** | **41.750** | **.00176** |
| Stddev | .00070 | .050 | .00013 | .00123 | .00336 | .00002 | .00354 | .100 | .00021 |
| %RSD | 202.55 | .06154 | .36923 | 12.661 | .43267 | 1.3306 | 7.5686 | .24009 | 11.976 |
| #1 | -.00015 | 81.928 | .03497 | .01054 | .77818 | .00149 | -.04431 | 41.820 | .00190 |
| #2 | .00085 | 81.857 | .03516 | .00881 | .77344 | .00152 | -.04932 | 41.679 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08071** | **.11612** | **.12941** | **209.72** | **16.936** | **.08090** | **46.688** | **3.4402** | **.00116** |
| Stddev | .00022 | .00016 | .00071 | .32 | .113 | .00106 | .012 | .0015 | .00011 |
| %RSD | .26890 | .13661 | .55088 | .15142 | .66992 | 1.3087 | .02600 | .04347 | 9.5176 |
| #1 | .08055 | .11623 | .12890 | 209.50 | 17.016 | .08015 | 46.697 | 3.4391 | .00108 |
| #2 | .08086 | .11601 | .12991 | 209.95 | 16.855 | .08165 | 46.680 | 3.4413 | .00124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0115** | **.11226** | **8.6120** | **.04847** | **.45201** | **.00756** | **.00382** | **3.4940** | **.01367** |
| Stddev | .0286 | .00012 | .0118 | .00116 | .00233 | .00089 | .00104 | .0032 | .00064 |
| %RSD | 1.4244 | .11099 | .13693 | 2.3996 | .51441 | 11.794 | 27.186 | .09310 | 4.6863 |
| #1 | 2.0318 | .11235 | 8.6037 | .04929 | .45365 | .00693 | .00309 | 3.4963 | .01412 |
| #2 | 1.9913 | .11217 | 8.6203 | .04765 | .45036 | .00819 | .00456 | 3.4917 | .01322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24519** | **.05623** | W **12.951** | **-.00644** | **-.04108** | **.47465** | **.45191** | **.17175** |
| Stddev | .00102 | .00084 | .016 | .00041 | .01331 | .00060 | .00011 | .00064 |
| %RSD | .41553 | 1.4960 | .11980 | 6.2932 | 32.406 | .12559 | .02432 | .37477 |
| #1 | .24591 | .05683 | 12.940 | -.00616 | -.03166 | .47507 | .45183 | .17220 |
| #2 | .24447 | .05564 | 12.962 | -.00673 | -.05049 | .47423 | .45198 | .17129 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6892.1** | **89817.** | **6522.9** |
| Stddev | 17.1 | 490. | 4.2 |
| %RSD | .24875 | .54532 | .06391 |
| #1 | 6904.2 | 89470. | 6525.8 |
| #2 | 6880.0 | 90163. | 6519.9 |

Sample Name: 280-41961-b-1-aSD@5 Acquired: 5/14/2013 20:02:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **17.600** | **.00910** | **-.00402** | **.16651** | **.00028** | **-.00848** | **8.9664** | **.00039** |
| Stddev | .00000 | .015 | .00031 | .00052 | .00079 | .00004 | .00051 | .0204 | .00022 |
| %RSD | .36574 | .08489 | 3.3795 | 12.860 | .47252 | 12.870 | 6.0160 | .22731 | 58.355 |
| #1 | -.00031 | 17.589 | .00931 | -.00366 | .16595 | .00025 | -.00884 | 8.9519 | .00023 |
| #2 | -.00031 | 17.610 | .00888 | -.00439 | .16706 | .00030 | -.00812 | 8.9808 | .00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01766** | **.02510** | **.02748** | **45.553** | **3.5985** | **.01745** | **10.074** | **.74960** | **.00022** |
| Stddev | .00008 | .00018 | .00014 | .165 | .0269 | .00169 | .033 | .00302 | .00019 |
| %RSD | .43952 | .70872 | .50369 | .36124 | .74793 | 9.6859 | .33070 | .40298 | 83.138 |
| #1 | .01761 | .02523 | .02738 | 45.669 | 3.6176 | .01626 | 10.050 | .74746 | .00036 |
| #2 | .01772 | .02498 | .02758 | 45.436 | 3.5795 | .01865 | 10.097 | .75173 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47434** | **.02447** | **1.8368** | **.00981** | **.10560** | **-.00016** | **-.00147** | **.74377** | **.00234** |
| Stddev | .00359 | .00007 | .0099 | .00128 | .00022 | .00073 | .00072 | .04655 | .00074 |
| %RSD | .75708 | .27785 | .53921 | 13.086 | .20787 | 455.07 | 48.847 | 6.2587 | 31.407 |
| #1 | .47688 | .02452 | 1.8438 | .01072 | .10544 | .00036 | -.00096 | .77668 | .00182 |
| #2 | .47180 | .02442 | 1.8298 | .00890 | .10575 | -.00068 | -.00197 | .71085 | .00287 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05290** | **.01290** | **2.7912** | **-.00217** | **-.00537** | **.10176** | **.10179** | **.03603** |
| Stddev | .00038 | .00064 | .0132 | .00017 | .00862 | .00020 | .00073 | .00419 |
| %RSD | .72677 | 4.9860 | .47338 | 7.9120 | 160.50 | .19752 | .71976 | 11.620 |
| #1 | .05317 | .01245 | 2.7818 | -.00229 | -.01147 | .10162 | .10128 | .03307 |
| #2 | .05263 | .01336 | 2.8005 | -.00205 | .00072 | .10191 | .10231 | .03900 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6539.6** | **85488.** | **6240.9** |
| Stddev | 8.8 | 342. | 3.3 |
| %RSD | .13469 | .40059 | .05320 |
| #1 | 6533.3 | 85731. | 6238.5 |
| #2 | 6545.8 | 85246. | 6243.2 |

Sample Name: 280-41961-b-1-d du  Acquired: 5/14/2013 20:05:17  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **79.656** | **.02792** | **.00764** | **.72666** | **.00132** | F **-.04380** | **40.169** | **.00179** |
| Stddev | .00050 | .207 | .00033 | .00037 | .00258 | .00001 | .00143 | .152 | .00001 |
| %RSD | 128.29 | .25955 | 1.1756 | 4.8394 | .35519 | .94989 | 3.2728 | .37772 | .72573 |
| #1 | .00004 | 79.802 | .02769 | .00791 | .72848 | .00133 | -.04481 | 40.277 | .00180 |
| #2 | .00075 | 79.510 | .02815 | .00738 | .72483 | .00132 | -.04278 | 40.062 | .00179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07849** | **.10386** | **.12179** | **202.69** | **16.205** | **.07716** | **44.292** | **3.3474** | **.00123** |
| Stddev | .00085 | .00027 | .00036 | .71 | .100 | .00292 | .082 | .0035 | .00015 |
| %RSD | 1.0880 | .25830 | .29308 | .35212 | .61454 | 3.7816 | .18623 | .10341 | 12.363 |
| #1 | .07910 | .10405 | .12154 | 203.20 | 16.275 | .07510 | 44.350 | 3.3498 | .00134 |
| #2 | .07789 | .10367 | .12204 | 202.19 | 16.134 | .07922 | 44.234 | 3.3449 | .00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0443** | **.10485** | **8.1213** | **.04572** | **.43895** | **.00353** | **-.00163** | **3.7777** | **.01382** |
| Stddev | .0198 | .00008 | .0067 | .00056 | .00013 | .00161 | .00114 | .0009 | .00019 |
| %RSD | .96947 | .07448 | .08232 | 1.2304 | .03024 | 45.740 | 70.209 | .02494 | 1.4042 |
| #1 | 2.0583 | .10490 | 8.1166 | .04612 | .43885 | .00239 | -.00244 | 3.7770 | .01395 |
| #2 | 2.0303 | .10479 | 8.1260 | .04532 | .43904 | .00467 | -.00082 | 3.7783 | .01368 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23755** | **.05601** | W **13.731** | **-.00699** | **-.04181** | **.48377** | **.44237** | **.17003** |
| Stddev | .00121 | .00334 | .001 | .00062 | .00302 | .00031 | .00082 | .00044 |
| %RSD | .51042 | 5.9590 | .00557 | 8.9058 | 7.2213 | .06376 | .18501 | .25665 |
| #1 | .23841 | .05365 | 13.731 | -.00655 | -.03967 | .48399 | .44295 | .16972 |
| #2 | .23669 | .05837 | 13.730 | -.00743 | -.04394 | .48356 | .44179 | .17034 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6917.0** | **89515.** | **6570.7** |
| Stddev | 17.4 | 127. | 59.0 |
| %RSD | .25180 | .14181 | .89788 |
| #1 | 6929.3 | 89425. | 6529.0 |
| #2 | 6904.6 | 89605. | 6612.4 |

Sample Name: 280-41961-b-1-e ms  Acquired: 5/14/2013 20:07:42  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04961** | **111.67** | **.91849** | **.86531** | **2.6321** | **.04434** | **1.7951** | **97.898** | **.09425** |
| Stddev | .00011 | .19 | .00090 | .00095 | .0071 | .00016 | .0041 | .361 | .00017 |
| %RSD | .21840 | .16806 | .09789 | .10923 | .26816 | .35323 | .22815 | .36873 | .17985 |
| #1 | .04953 | 111.80 | .91912 | .86597 | 2.6371 | .04445 | 1.7980 | 98.154 | .09437 |
| #2 | .04969 | 111.54 | .91785 | .86464 | 2.6271 | .04422 | 1.7922 | 97.643 | .09413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51811** | **.30962** | **.36059** | **225.02** | **65.372** | **.97859** | **97.814** | **4.1822** | **.81438** |
| Stddev | .00082 | .00054 | .00001 | .05 | .061 | .00499 | .328 | .0146 | .00153 |
| %RSD | .15912 | .17540 | .00224 | .02295 | .09312 | .51037 | .33505 | .34917 | .18805 |
| #1 | .51869 | .31000 | .36058 | 225.05 | 65.415 | .98212 | 98.046 | 4.1925 | .81547 |
| #2 | .51753 | .30924 | .36059 | 224.98 | 65.329 | .97506 | 97.582 | 4.1719 | .81330 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.025** | **.54424** | **16.797** | **.47854** | **.40915** | **.21564** | **1.7600** | **4.5144** | **1.4861** |
| Stddev | .191 | .00142 | .028 | .00055 | .00026 | .00053 | .0085 | .0370 | .0066 |
| %RSD | .38231 | .26177 | .16515 | .11393 | .06460 | .24458 | .48447 | .81870 | .44470 |
| #1 | 50.161 | .54525 | 16.817 | .47815 | .40934 | .21601 | 1.7660 | 4.5405 | 1.4907 |
| #2 | 49.890 | .54323 | 16.777 | .47893 | .40897 | .21526 | 1.7539 | 4.4883 | 1.4814 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1966** | **.96712** | W **15.696** | **1.6446** | **1.7596** | **1.0156** | **.92142** | **.62491** |
| Stddev | .0032 | .00135 | .009 | .0078 | .0128 | .0037 | .00545 | .00244 |
| %RSD | .26576 | .13999 | .05968 | .47549 | .72655 | .35925 | .59101 | .39030 |
| #1 | 1.1988 | .96808 | 15.703 | 1.6501 | 1.7505 | 1.0182 | .92527 | .62319 |
| #2 | 1.1943 | .96616 | 15.689 | 1.6390 | 1.7686 | 1.0130 | .91757 | .62664 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6779.6** | **88212.** | **6495.3** |
| Stddev | 6.4 | 353. | .3 |
| %RSD | .09384 | .40052 | .00448 |
| #1 | 6775.1 | 87963. | 6495.5 |
| #2 | 6784.1 | 88462. | 6495.1 |

Sample Name: 280-41961-b-2-a Acquired: 5/14/2013 20:10:06 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **88.498** | **.03452** | **.02604** | **.80998** | **.00159** | F **-.04080** | **58.109** | **.00181** |
| Stddev | .00011 | .422 | .00078 | .00046 | .00511 | .00007 | .00598 | .188 | .00018 |
| %RSD | 71.447 | .47687 | 2.2451 | 1.7542 | .63149 | 4.4568 | 14.653 | .32409 | 9.6922 |
| #1 | .00008 | 88.796 | .03507 | .02572 | .81360 | .00154 | -.03657 | 58.243 | .00193 |
| #2 | .00023 | 88.199 | .03397 | .02637 | .80636 | .00164 | -.04502 | 57.976 | .00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08569** | **.12990** | **.15562** | **215.04** | **18.640** | **.08676** | **52.342** | **3.6325** | **.00159** |
| Stddev | .00045 | .00071 | .00121 | .55 | .083 | .00075 | .290 | .0067 | .00005 |
| %RSD | .52815 | .55015 | .77580 | .25441 | .44550 | .85886 | .55313 | .18582 | 2.9519 |
| #1 | .08537 | .12939 | .15647 | 215.43 | 18.699 | .08623 | 52.546 | 3.6278 | .00162 |
| #2 | .08601 | .13040 | .15476 | 214.65 | 18.582 | .08728 | 52.137 | 3.6373 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2816** | **.13680** | **8.7823** | **.04143** | **.52352** | **.00371** | **-.00274** | **3.6829** | **.01424** |
| Stddev | .0230 | .00032 | .0218 | .00105 | .00330 | .00208 | .00021 | .0445 | .00071 |
| %RSD | 1.0067 | .23587 | .24776 | 2.5399 | .63094 | 56.154 | 7.6986 | 1.2096 | 4.9809 |
| #1 | 2.2978 | .13657 | 8.7669 | .04069 | .52118 | .00224 | -.00259 | 3.7144 | .01374 |
| #2 | 2.2654 | .13703 | 8.7977 | .04218 | .52585 | .00518 | -.00289 | 3.6514 | .01474 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29938** | **.06416** | W **13.494** | **-.00833** | W **-.06969** | **.51164** | **.45648** | **.16825** |
| Stddev | .00156 | .00104 | .107 | .00196 | .00523 | .00236 | .00180 | .00040 |
| %RSD | .52216 | 1.6175 | .79496 | 23.508 | 7.4996 | .46119 | .39324 | .23707 |
| #1 | .30049 | .06343 | 13.569 | -.00695 | -.06600 | .51331 | .45775 | .16797 |
| #2 | .29828 | .06490 | 13.418 | -.00972 | -.07339 | .50997 | .45521 | .16854 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6954.3** | **90026.** | **6586.4** |
| Stddev | 2.7 | 516. | 17.0 |
| %RSD | .03818 | .57335 | .25819 |
| #1 | 6952.4 | 89661. | 6574.4 |
| #2 | 6956.1 | 90391. | 6598.4 |

Sample Name: 280-41961-b-3-a Acquired: 5/14/2013 20:12:37 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **87.026** | **.03509** | **.00872** | **.79817** | **.00145** | F **-.04596** | **46.083** | **.00165** |
| Stddev | .00044 | .497 | .00191 | .00055 | .00443 | .00007 | .01774 | .285 | .00017 |
| %RSD | 49.699 | .57141 | 5.4509 | 6.2849 | .55488 | 4.7951 | 38.601 | .61772 | 10.256 |
| #1 | .00058 | 87.377 | .03644 | .00834 | .80130 | .00150 | -.03342 | 46.284 | .00153 |
| #2 | .00121 | 86.674 | .03374 | .00911 | .79504 | .00140 | -.05851 | 45.881 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08964** | **.12114** | **.14465** | **227.34** | **16.614** | **.08487** | **50.025** | **3.7533** | **.00143** |
| Stddev | .00093 | .00001 | .00060 | 1.54 | .110 | .00080 | .185 | .0086 | .00009 |
| %RSD | 1.0364 | .00559 | .41494 | .67895 | .66211 | .94435 | .36900 | .22788 | 6.5186 |
| #1 | .08898 | .12114 | .14508 | 228.43 | 16.692 | .08543 | 50.156 | 3.7594 | .00149 |
| #2 | .09030 | .12115 | .14423 | 226.25 | 16.536 | .08430 | 49.895 | 3.7473 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1463** | **.12325** | **8.8883** | **.04414** | **.50038** | **.00130** | **.00268** | **3.2397** | **.01531** |
| Stddev | .0203 | .00003 | .0142 | .00016 | .00008 | .00144 | .00462 | .0549 | .00035 |
| %RSD | .94791 | .02166 | .16015 | .36938 | .01609 | 110.85 | 172.73 | 1.6939 | 2.2722 |
| #1 | 2.1607 | .12327 | 8.8782 | .04426 | .50044 | .00232 | .00595 | 3.2785 | .01555 |
| #2 | 2.1319 | .12323 | 8.8984 | .04403 | .50033 | .00028 | -.00059 | 3.2009 | .01506 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26179** | **.06346** | W **15.459** | **-.00660** | W **-.07825** | **.53760** | **.47292** | **.19869** |
| Stddev | .00172 | .00423 | .225 | .00024 | .07204 | .00306 | .00326 | .00188 |
| %RSD | .65883 | 6.6708 | 1.4546 | 3.5925 | 92.059 | .56877 | .69002 | .94782 |
| #1 | .26301 | .06046 | 15.618 | -.00677 | -.02731 | .53976 | .47523 | .20002 |
| #2 | .26057 | .06645 | 15.300 | -.00643 | -.12919 | .53544 | .47061 | .19736 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6964.7** | **90670.** | **6664.8** |
| Stddev | 11.0 | 655. | 56.8 |
| %RSD | .15777 | .72190 | .85159 |
| #1 | 6972.4 | 90207. | 6624.7 |
| #2 | 6956.9 | 91133. | 6704.9 |

Sample Name: 280-41961-b-4-a  Acquired: 5/14/2013 20:15:08  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **77.281** | **.03534** | **.00436** | **.79077** | **.00128** | F **-.03250** | **85.126** | **.00147** |
| Stddev | .00077 | .136 | .00186 | .00043 | .00028 | .00010 | .00131 | .146 | .00016 |
| %RSD | 135.36 | .17646 | 5.2542 | 9.8283 | .03498 | 7.4378 | 4.0331 | .17135 | 10.615 |
| #1 | .00002 | 77.377 | .03403 | .00406 | .79057 | .00135 | -.03343 | 85.229 | .00158 |
| #2 | .00111 | 77.184 | .03666 | .00466 | .79097 | .00122 | -.03157 | 85.023 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08750** | **.11228** | **.14634** | **223.39** | **13.315** | **.08100** | **50.632** | **3.4998** | **.00182** |
| Stddev | .00014 | .00099 | .00027 | .83 | .062 | .00090 | .316 | .0089 | .00011 |
| %RSD | .15964 | .88615 | .18577 | .37170 | .46248 | 1.1050 | .62406 | .25509 | 6.0402 |
| #1 | .08741 | .11157 | .14615 | 223.98 | 13.271 | .08036 | 50.408 | 3.5062 | .00174 |
| #2 | .08760 | .11298 | .14654 | 222.81 | 13.358 | .08163 | 50.855 | 3.4935 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5433** | **.11119** | **8.7516** | **.04735** | **.69454** | **.00240** | **-.00094** | **2.6681** | **.01567** |
| Stddev | .0010 | .00058 | .0075 | .00081 | .00378 | .00066 | .00177 | .0348 | .00038 |
| %RSD | .03916 | .51850 | .08571 | 1.7021 | .54405 | 27.514 | 187.24 | 1.3061 | 2.4278 |
| #1 | 2.5426 | .11078 | 8.7463 | .04792 | .69187 | .00193 | .00031 | 2.6927 | .01541 |
| #2 | 2.5440 | .11160 | 8.7569 | .04678 | .69721 | .00286 | -.00219 | 2.6434 | .01594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34109** | **.06018** | W **15.487** | **-.00668** | W **-.05014** | **.53981** | **.46217** | **.18180** |
| Stddev | .00082 | .00088 | .087 | .00015 | .05033 | .00206 | .00296 | .00103 |
| %RSD | .24089 | 1.4620 | .55956 | 2.1839 | 100.38 | .38126 | .63943 | .56801 |
| #1 | .34167 | .05956 | 15.426 | -.00678 | -.08573 | .53835 | .46008 | .18253 |
| #2 | .34051 | .06080 | 15.549 | -.00657 | -.01455 | .54126 | .46426 | .18107 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6979.5** | **90644.** | **6604.8** |
| Stddev | 1.8 | 417. | 37.6 |
| %RSD | .02591 | .46045 | .56911 |
| #1 | 6980.8 | 90939. | 6578.2 |
| #2 | 6978.2 | 90348. | 6631.4 |

Sample Name: 280-41961-b-5-a Acquired: 5/14/2013 20:17:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **57.290** | **.02653** | **.00529** | **.60489** | **.00029** | F **-.06791** | **68.952** | **.00160** |
| Stddev | .00051 | .226 | .00040 | .00003 | .00251 | .00008 | .00285 | .338 | .00015 |
| %RSD | 699.28 | .39435 | 1.5160 | .63371 | .41573 | 28.160 | 4.1916 | .48956 | 9.0609 |
| #1 | -.00029 | 57.449 | .02625 | .00531 | .60667 | .00035 | -.06992 | 69.190 | .00150 |
| #2 | .00044 | 57.130 | .02682 | .00526 | .60312 | .00023 | -.06590 | 68.713 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08994** | **.07565** | **.13917** | **218.12** | **9.1712** | **.05624** | **45.908** | **3.0265** | **.00156** |
| Stddev | .00015 | .00019 | .00073 | 1.17 | .0173 | .00039 | .151 | .0098 | .00027 |
| %RSD | .16369 | .24488 | .52182 | .53860 | .18866 | .69594 | .32831 | .32451 | 17.097 |
| #1 | .08984 | .07552 | .13969 | 218.95 | 9.1834 | .05597 | 46.015 | 3.0334 | .00175 |
| #2 | .09005 | .07578 | .13866 | 217.29 | 9.1590 | .05652 | 45.802 | 3.0195 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7328** | **.10645** | **9.5590** | **.05757** | **1.1547** | **.00768** | **-.00152** | **3.0995** | **.01610** |
| Stddev | .0252 | .00042 | .0040 | .00000 | .0051 | .00103 | .00196 | .0433 | .00007 |
| %RSD | .92220 | .39602 | .04224 | .00339 | .44469 | 13.400 | 128.92 | 1.3958 | .43910 |
| #1 | 2.7506 | .10615 | 9.5562 | .05757 | 1.1511 | .00841 | -.00291 | 3.1301 | .01615 |
| #2 | 2.7150 | .10675 | 9.5619 | .05757 | 1.1584 | .00695 | -.00013 | 3.0689 | .01605 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26682** | **.04960** | W **18.288** | **-.00695** | **-.04509** | **.56300** | **.53700** | **.20027** |
| Stddev | .00175 | .00073 | .065 | .00101 | .03005 | .00216 | .00073 | .00373 |
| %RSD | .65574 | 1.4709 | .35741 | 14.549 | 66.640 | .38430 | .13537 | 1.8606 |
| #1 | .26806 | .04908 | 18.241 | -.00766 | -.02384 | .56453 | .53751 | .20291 |
| #2 | .26558 | .05011 | 18.334 | -.00623 | -.06633 | .56147 | .53649 | .19764 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7095.1** | **92951.** | **6754.2** |
| Stddev | 4.6 | 86. | 4.9 |
| %RSD | .06437 | .09242 | .07274 |
| #1 | 7091.9 | 92890. | 6750.7 |
| #2 | 7098.4 | 93012. | 6757.7 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 20:20:57 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00850** | **49.782** | **-.00145** | **-.00633** | **.00064** | **.00000** | **1.0101** | **-.00273** | **-.00094** | **.00217** | **.00006** | **.00110** | **50.582** |
| Stddev | .00005 | .198 | .00109 | .00029 | .00013 | .00001 | .0064 | .00334 | .00019 | .00008 | .00015 | .00018 | .059 |
| %RSD | .61623 | .39829 | 74.871 | 4.5405 | 20.553 | 285.27 | .63510 | 122.16 | 19.720 | 3.5391 | 275.87 | 16.504 | .11601 |
| #1 | .00854 | 49.922 | -.00068 | -.00653 | .00073 | -.00000 | 1.0147 | -.00037 | -.00107 | .00212 | -.00005 | .00097 | 50.623 |
| #2 | .00846 | 49.642 | -.00222 | -.00613 | .00055 | .00001 | 1.0056 | -.00509 | -.00081 | .00223 | .00016 | .00123 | 50.540 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05355** | **.00425** | **-.01368** | **-.00066** | **-.00178** | **254.08** | **.00146** | **-.00557** | **-.00050** | **5.1680** | **-.00293** | **.00400** | **.00980** |
| Stddev | .02939 | .00212 | .00340 | .00003 | .00007 | .91 | .00007 | .00138 | .00122 | .0277 | .00158 | .00102 | .01217 |
| %RSD | 54.874 | 49.898 | 24.830 | 4.5693 | 3.7232 | .35837 | 5.1058 | 24.805 | 243.06 | .53505 | 54.092 | 25.354 | 124.27 |
| #1 | -.07433 | .00574 | -.01128 | -.00068 | -.00173 | 254.72 | .00141 | -.00655 | .00036 | 5.1876 | -.00181 | .00329 | .00119 |
| #2 | -.03277 | .00275 | -.01608 | -.00064 | -.00183 | 253.44 | .00151 | -.00459 | -.00137 | 5.1485 | -.00405 | .00472 | .01840 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00011** | **5.1530** | **.00300** | **-.00308** | **10.141** | **-.00038** | **.00297** | **-.03917** |
| Stddev | .00026 | .00009 | .0354 | .00055 | .00000 | .093 | .00076 | .00034 | .00108 |
| %RSD | 42.426 | 80.690 | .68623 | 18.201 | .03538 | .91639 | 199.92 | 11.374 | 2.7618 |
| #1 | .00044 | .00005 | 5.1780 | .00338 | -.00308 | 10.207 | .00016 | .00273 | -.03994 |
| #2 | .00081 | .00017 | 5.1279 | .00261 | -.00308 | 10.076 | -.00091 | .00321 | -.03841 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6254.8** | **81091.** | **5920.0** |
| Stddev | 8.0 | 470. | 57.1 |
| %RSD | .12864 | .57954 | .96469 |
| #1 | 6249.1 | 80759. | 5879.6 |
| #2 | 6260.5 | 81423. | 5960.4 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 20:24:40 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51451** | **.49704** | **1.0135** | **.49443** | **.49612** | **.47604** | **-.00065** | **4.9299** | **.50641** | **.51054** | **.49760** | **.49827** | **2.4271** |
| Stddev | .00369 | .00114 | .0034 | .00063 | .00546 | .00410 | .00105 | .0404 | .00185 | .00126 | .00029 | .00421 | .0186 |
| %RSD | .71717 | .22959 | .33575 | .12651 | 1.1012 | .86051 | 161.02 | .81909 | .36514 | .24667 | .05826 | .84507 | .76452 |
| #1 | .51190 | .49624 | 1.0111 | .49399 | .49226 | .47315 | .00009 | 4.9014 | .50511 | .50965 | .49739 | .49529 | 2.4140 |
| #2 | .51712 | .49785 | 1.0159 | .49487 | .49998 | .47894 | -.00139 | 4.9585 | .50772 | .51143 | .49780 | .50125 | 2.4402 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.462** | **.99120** | **20.748** | **.51401** | **.49158** | **4.8213** | **.50613** | **.98610** | **1.0123** | **.00696** | **1.0067** | **1.0064** | **4.8632** |
| Stddev | .444 | .00556 | .128 | .00371 | .00219 | .0300 | .00203 | .00110 | .0049 | .00292 | .0062 | .0055 | .0264 |
| %RSD | .89816 | .56137 | .61587 | .72118 | .44620 | .62254 | .40045 | .11144 | .48639 | 41.896 | .61356 | .54210 | .54297 |
| #1 | 49.148 | .98727 | 20.658 | .51139 | .49003 | 4.8001 | .50469 | .98532 | 1.0088 | .00490 | 1.0024 | 1.0025 | 4.8445 |
| #2 | 49.776 | .99514 | 20.839 | .51663 | .49313 | 4.8425 | .50756 | .98688 | 1.0157 | .00902 | 1.0111 | 1.0102 | 4.8818 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99271** | **.48292** | **.00214** | **.50284** | **.98632** | **-.00512** | **.50201** | **.52558** | **.49261** |
| Stddev | .00244 | .00406 | .00026 | .00387 | .00244 | .02111 | .00364 | .00285 | .00239 |
| %RSD | .24614 | .84014 | 12.193 | .76900 | .24704 | 412.17 | .72466 | .54157 | .48463 |
| #1 | .99099 | .48005 | .00233 | .50011 | .98460 | -.02005 | .49944 | .52356 | .49430 |
| #2 | .99444 | .48579 | .00196 | .50558 | .98805 | .00981 | .50458 | .52759 | .49093 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6393.2** | **83840.** | **6014.7** |
| Stddev | 13.0 | 147. | 53.2 |
| %RSD | .20341 | .17573 | .88421 |
| #1 | 6402.4 | 83944. | 6052.3 |
| #2 | 6384.0 | 83735. | 5977.1 |

Sample Name: CCB Acquired: 5/14/2013 20:27:04 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **-.00041** | **-.00165** | F **-.00752** | **.00037** | **.00013** | **.00208** | **-.00378** | **.00011** | **.00037** | **.00008** |
| Stddev | .00021 | .00023 | .00223 | .00027 | .00001 | .00019 | .00234 | .00109 | .00009 | .00003 | .00001 |
| %RSD | 310.05 | 55.632 | 135.22 | 3.6450 | 1.7363 | 139.63 | 112.15 | 28.893 | 86.537 | 7.0270 | 18.093 |
| #1 | -.00008 | -.00025 | -.00323 | -.00732 | .00036 | .00027 | .00043 | -.00455 | .00004 | .00039 | .00009 |
| #2 | .00021 | -.00057 | -.00007 | -.00771 | .00037 | .00000 | .00374 | -.00301 | .00017 | .00035 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00257** | **-.05899** | W **.00345** | **.00208** | **.00016** | **.00003** | **-.00347** | **-.00024** | F **-.01018** | **.00080** |
| Stddev | .00001 | .00286 | .03754 | .00082 | .00024 | .00003 | .00017 | .00294 | .00011 | .00094 | .00016 |
| %RSD | 11.855 | 111.59 | 63.635 | 23.665 | 11.725 | 16.917 | 664.37 | 84.705 | 46.795 | 9.2687 | 19.510 |
| #1 | -.00006 | .00459 | -.03245 | .00402 | .00191 | .00014 | .00014 | -.00139 | -.00016 | -.01084 | .00069 |
| #2 | -.00005 | .00054 | -.08553 | .00287 | .00226 | .00018 | -.00009 | -.00555 | -.00032 | -.00951 | .00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00261 | | | | | | .01000 | |
| Low Limit | | | | -.00261 | | | | | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00662** | **-.00155** | **-.00098** | **.00750** | **-.00028** | **.00012** | **.00038** | **.00036** | **-.00138** | **.01874** | **-.00012** |
| Stddev | .00283 | .00051 | .00039 | .01772 | .00018 | .00003 | .00101 | .00037 | .00013 | .00735 | .00063 |
| %RSD | 42.686 | 32.934 | 39.407 | 236.18 | 63.757 | 23.495 | 261.75 | 102.14 | 9.5890 | 39.200 | 528.69 |
| #1 | .00462 | -.00119 | -.00071 | -.00503 | -.00015 | .00010 | -.00033 | .00063 | -.00147 | .01355 | .00033 |
| #2 | .00862 | -.00191 | -.00125 | .02003 | -.00040 | .00014 | .00110 | .00010 | -.00128 | .02394 | -.00057 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | **.00022** |
| Stddev | .00020 | .00199 |
| %RSD | 7.8752 | 906.94 |
| #1 | .00273 | .00163 |
| #2 | .00244 | -.00119 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6385.0** | **83548.** | **5883.8** |
| Stddev | .3 | 96. | 17.0 |
| %RSD | .00548 | .11550 | .28903 |
| #1 | 6385.3 | 83479. | 5895.8 |
| #2 | 6384.8 | 83616. | 5871.8 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 20:29:43 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01070** | **.09893** | **.01601** | **.08945** | **.01041** | **.00093** | **.10777** | **.19826** | **.00509** | **.01082** | **.01018** |
| Stddev | .00030 | .00000 | .00175 | .00044 | .00051 | .00007 | .00017 | .00019 | .00033 | .00007 | .00009 |
| %RSD | 2.8409 | .00478 | 10.944 | .49734 | 4.9453 | 7.7027 | .15350 | .09391 | 6.4143 | .63440 | .92309 |
| #1 | .01049 | .09893 | .01725 | .08977 | .01077 | .00098 | .10765 | .19813 | .00532 | .01077 | .01025 |
| #2 | .01092 | .09893 | .01477 | .08914 | .01004 | .00088 | .10788 | .19839 | .00486 | .01087 | .01011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01528** | **.09623** | **2.9884** | W **.01255** | **.21634** | **.01062** | **.01932** | **.99368** | **.04125** | **2.9220** | **.01052** |
| Stddev | .00012 | .00079 | .0458 | .00073 | .00377 | .00000 | .00025 | .00600 | .00051 | .0012 | .00018 |
| %RSD | .79557 | .81649 | 1.5328 | 5.7902 | 1.7442 | .00291 | 1.2895 | .60381 | 1.2441 | .03985 | 1.6756 |
| #1 | .01536 | .09568 | 2.9560 | .01306 | .21901 | .01062 | .01949 | .98943 | .04161 | 2.9229 | .01064 |
| #2 | .01519 | .09679 | 3.0208 | .01204 | .21367 | .01062 | .01914 | .99792 | .04088 | 2.9212 | .01039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00603** | **.00836** | **.01461** | **.48826** | **.09967** | **.00993** | **.01433** | **.01026** | **.01522** | F **.09320** | **.01032** |
| Stddev | .00625 | .00176 | .00093 | .00968 | .00066 | .00012 | .00034 | .00010 | .00121 | .01196 | .00041 |
| %RSD | 103.70 | 21.011 | 6.3861 | 1.9818 | .65739 | 1.2497 | 2.3684 | .97419 | 7.9180 | 12.828 | 3.9299 |
| #1 | .00161 | .00960 | .01527 | .48142 | .09920 | .01002 | .01457 | .01019 | .01437 | .10165 | .01061 |
| #2 | .01045 | .00712 | .01395 | .49511 | .10013 | .00985 | .01409 | .01033 | .01607 | .08474 | .01004 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02329** | **.01387** |
| Stddev | .00036 | .00007 |
| %RSD | 1.5577 | .52807 |
| #1 | .02304 | .01393 |
| #2 | .02355 | .01382 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6427.0** | **83979.** | **5969.2** |
| Stddev | 14.3 | 217. | 3.1 |
| %RSD | .22177 | .25801 | .05168 |
| #1 | 6437.1 | 83826. | 5967.0 |
| #2 | 6416.9 | 84132. | 5971.4 |

Sample Name: 280-41961-b-6-a Acquired: 5/14/2013 20:32:07 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **54.381** | **.01775** | **-.00485** | **.74895** | **-.00028** | F **-.07300** | **61.975** | **.00100** |
| Stddev | .00016 | .019 | .00016 | .00046 | .00038 | .00006 | .00410 | .008 | .00009 |
| %RSD | 377.42 | .03404 | .91523 | 9.3836 | .05086 | 21.150 | 5.6162 | .01322 | 8.7181 |
| #1 | .00016 | 54.394 | .01786 | -.00518 | .74922 | -.00033 | -.07590 | 61.981 | .00094 |
| #2 | -.00007 | 54.368 | .01763 | -.00453 | .74868 | -.00024 | -.07010 | 61.969 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09219** | **.07635** | **.13926** | **210.02** | **7.5168** | **.05715** | **48.319** | **3.4161** | **.00110** |
| Stddev | .00073 | .00010 | .00023 | .37 | .0086 | .00091 | .114 | .0070 | .00026 |
| %RSD | .79610 | .13700 | .16587 | .17612 | .11418 | 1.5892 | .23676 | .20398 | 23.406 |
| #1 | .09270 | .07643 | .13943 | 210.28 | 7.5229 | .05651 | 48.399 | 3.4210 | .00128 |
| #2 | .09167 | .07628 | .13910 | 209.76 | 7.5107 | .05779 | 48.238 | 3.4111 | .00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.8503** | **.11296** | **8.4667** | **.02527** | **.92959** | **.00571** | **-.00137** | **2.2984** | **.01808** |
| Stddev | .0095 | .00012 | .0060 | .00057 | .00423 | .00335 | .00073 | .0461 | .00136 |
| %RSD | .33349 | .10486 | .07077 | 2.2677 | .45552 | 58.654 | 52.993 | 2.0067 | 7.5301 |
| #1 | 2.8570 | .11304 | 8.4709 | .02568 | .93258 | .00334 | -.00086 | 2.2657 | .01712 |
| #2 | 2.8436 | .11287 | 8.4624 | .02486 | .92659 | .00809 | -.00188 | 2.3310 | .01905 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22547** | **.04614** | W **19.476** | **-.00701** | W **-.05664** | **.58462** | **.41846** | **.17907** |
| Stddev | .00059 | .00166 | .086 | .00021 | .00970 | .00127 | .00126 | .00327 |
| %RSD | .26213 | 3.5907 | .44388 | 2.9541 | 17.126 | .21765 | .30210 | 1.8248 |
| #1 | .22589 | .04731 | 19.415 | -.00687 | -.06350 | .58552 | .41936 | .17676 |
| #2 | .22505 | .04496 | 19.538 | -.00716 | -.04978 | .58372 | .41757 | .18138 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6982.4** | **90314.** | **6555.5** |
| Stddev | 13.8 | 245. | 22.6 |
| %RSD | .19787 | .27161 | .34418 |
| #1 | 6972.6 | 90141. | 6539.5 |
| #2 | 6992.2 | 90488. | 6571.4 |

Sample Name: 280-41961-b-7-a  Acquired: 5/14/2013 20:34:33  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **54.427** | **.02412** | **.00163** | **.57863** | **-.00007** | F **-.06617** | **63.266** | **.00139** |
| Stddev | .00002 | .106 | .00083 | .00017 | .00311 | .00009 | .01112 | .137 | .00011 |
| %RSD | 22.624 | .19565 | 3.4610 | 10.731 | .53761 | 127.61 | 16.809 | .21696 | 7.9392 |
| #1 | .00010 | 54.502 | .02471 | .00175 | .58083 | -.00014 | -.07403 | 63.363 | .00147 |
| #2 | .00007 | 54.352 | .02353 | .00150 | .57643 | -.00001 | -.05830 | 63.169 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09237** | **.08666** | **.13185** | **229.80** | **8.4795** | **.05171** | **47.201** | **3.0827** | **.00161** |
| Stddev | .00049 | .00009 | .00034 | .08 | .0351 | .00032 | .052 | .0023 | .00003 |
| %RSD | .53373 | .10204 | .25521 | .03554 | .41422 | .62159 | .11107 | .07447 | 1.7038 |
| #1 | .09272 | .08673 | .13209 | 229.86 | 8.5044 | .05194 | 47.164 | 3.0811 | .00159 |
| #2 | .09203 | .08660 | .13161 | 229.74 | 8.4547 | .05148 | 47.238 | 3.0843 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6776** | **.10511** | **9.9281** | **.03404** | **.90861** | **.00620** | **-.00175** | **2.6195** | **.01866** |
| Stddev | .0152 | .00074 | .0098 | .00047 | .00090 | .00023 | .00228 | .0082 | .00003 |
| %RSD | .56791 | .70740 | .09856 | 1.3771 | .09912 | 3.7608 | 129.83 | .31368 | .17907 |
| #1 | 2.6884 | .10564 | 9.9350 | .03371 | .90924 | .00636 | -.00336 | 2.6137 | .01868 |
| #2 | 2.6669 | .10459 | 9.9212 | .03437 | .90797 | .00603 | -.00014 | 2.6253 | .01863 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24470** | **.05136** | W **20.981** | **-.00862** | W **-.05110** | **.62803** | **.45349** | **.20773** |
| Stddev | .00151 | .00106 | .120 | .00113 | .02208 | .00137 | .00046 | .00245 |
| %RSD | .61529 | 2.0704 | .57342 | 13.158 | 43.220 | .21796 | .10216 | 1.1802 |
| #1 | .24576 | .05061 | 20.896 | -.00942 | -.03548 | .62707 | .45382 | .20946 |
| #2 | .24363 | .05212 | 21.066 | -.00782 | -.06671 | .62900 | .45317 | .20599 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7079.2** | **91387.** | **6679.9** |
| Stddev | 20.2 | 253. | 1.6 |
| %RSD | .28521 | .27652 | .02407 |
| #1 | 7064.9 | 91566. | 6681.0 |
| #2 | 7093.5 | 91209. | 6678.7 |

Sample Name: 280-41961-b-8-a  Acquired: 5/14/2013 20:36:58  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **53.217** | **.02194** | **.00562** | **.65233** | **.00024** | F **-.06371** | **61.973** | **.00151** |
| Stddev | .00015 | .116 | .00127 | .00033 | .00041 | .00005 | .00056 | .074 | .00007 |
| %RSD | 60.268 | .21728 | 5.7990 | 5.8014 | .06303 | 19.944 | .87613 | .12015 | 4.7346 |
| #1 | -.00037 | 53.298 | .02284 | .00539 | .65204 | .00028 | -.06411 | 62.026 | .00156 |
| #2 | -.00015 | 53.135 | .02104 | .00585 | .65262 | .00021 | -.06332 | 61.920 | .00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08658** | **.07121** | **.13742** | **210.75** | **8.9085** | **.05271** | **44.820** | **3.0043** | **.00137** |
| Stddev | .00055 | .00012 | .00018 | .53 | .0105 | .00037 | .093 | .0078 | .00035 |
| %RSD | .63101 | .16816 | .13129 | .25371 | .11815 | .70764 | .20855 | .25827 | 25.409 |
| #1 | .08620 | .07113 | .13755 | 211.13 | 8.9010 | .05244 | 44.886 | 3.0098 | .00161 |
| #2 | .08697 | .07130 | .13729 | 210.38 | 8.9159 | .05297 | 44.754 | 2.9988 | .00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5518** | **.10559** | **9.0930** | **.04911** | **.86469** | **.00511** | **.00180** | **2.3117** | **.01722** |
| Stddev | .0032 | .00043 | .0092 | .00105 | .00676 | .00146 | .00558 | .0139 | .00037 |
| %RSD | .12576 | .40286 | .10147 | 2.1335 | .78140 | 28.555 | 309.67 | .60231 | 2.1495 |
| #1 | 2.5541 | .10528 | 9.0996 | .04985 | .85992 | .00614 | .00575 | 2.3018 | .01748 |
| #2 | 2.5496 | .10589 | 9.0865 | .04836 | .86947 | .00408 | -.00214 | 2.3215 | .01696 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25397** | **.04900** | W **18.851** | **-.00652** | W **-.07149** | **.56361** | **.42797** | **.20368** |
| Stddev | .00064 | .00047 | .003 | .00027 | .04040 | .00085 | .00324 | .00179 |
| %RSD | .25149 | .95428 | .01524 | 4.2078 | 56.508 | .15081 | .75602 | .87704 |
| #1 | .25442 | .04867 | 18.853 | -.00633 | -.04293 | .56421 | .43026 | .20494 |
| #2 | .25352 | .04933 | 18.848 | -.00671 | -.10006 | .56301 | .42569 | .20241 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6996.1** | **91016.** | **6577.5** |
| Stddev | 6.0 | 138. | 39.4 |
| %RSD | .08513 | .15201 | .59836 |
| #1 | 6991.9 | 90919. | 6549.6 |
| #2 | 7000.3 | 91114. | 6605.3 |

Sample Name: 280-41961-b-9-a Acquired: 5/14/2013 20:39:23 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **63.422** | **.02618** | **.00479** | **.70138** | **.00067** | F **-.04570** | **71.701** | **.00143** |
| Stddev | .00031 | .071 | .00411 | .00016 | .00050 | .00007 | .00029 | .013 | .00003 |
| %RSD | 205.36 | .11241 | 15.679 | 3.3326 | .07066 | 9.8356 | .64038 | .01874 | 2.0623 |
| #1 | -.00037 | 63.371 | .02328 | .00490 | .70103 | .00062 | -.04590 | 71.692 | .00145 |
| #2 | .00007 | 63.472 | .02909 | .00468 | .70173 | .00072 | -.04549 | 71.711 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09037** | **.08700** | **.15307** | **219.35** | **10.925** | **.06326** | **48.624** | **3.2370** | **.00147** |
| Stddev | .00011 | .00062 | .00061 | .98 | .015 | .00149 | .051 | .0037 | .00003 |
| %RSD | .11791 | .71377 | .39944 | .44903 | .13373 | 2.3530 | .10429 | .11546 | 1.6996 |
| #1 | .09029 | .08656 | .15350 | 218.65 | 10.935 | .06220 | 48.660 | 3.2397 | .00145 |
| #2 | .09044 | .08744 | .15263 | 220.05 | 10.915 | .06431 | 48.588 | 3.2344 | .00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5482** | **.10640** | **10.085** | **.04701** | **.95875** | **.00539** | **-.00151** | **2.6093** | **.01485** |
| Stddev | .0046 | .00046 | .009 | .00126 | .00183 | .00158 | .00193 | .0138 | .00107 |
| %RSD | .17862 | .43015 | .08631 | 2.6744 | .19069 | 29.365 | 127.65 | .52959 | 7.1769 |
| #1 | 2.5514 | .10608 | 10.079 | .04612 | .95746 | .00651 | -.00288 | 2.6191 | .01409 |
| #2 | 2.5449 | .10673 | 10.091 | .04789 | .96005 | .00427 | -.00015 | 2.5995 | .01560 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35365** | **.05284** | W **16.994** | **-.00771** | W **-.05555** | **.56517** | **.53389** | **.18667** |
| Stddev | .00089 | .00345 | .112 | .00109 | .00313 | .00124 | .00111 | .00101 |
| %RSD | .25043 | 6.5292 | .66045 | 14.088 | 5.6358 | .21986 | .20760 | .53960 |
| #1 | .35428 | .05528 | 16.915 | -.00694 | -.05333 | .56605 | .53468 | .18596 |
| #2 | .35303 | .05040 | 17.074 | -.00848 | -.05776 | .56429 | .53311 | .18738 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6941.0** | **90601.** | **6596.6** |
| Stddev | 25.4 | 204. | 20.3 |
| %RSD | .36609 | .22559 | .30833 |
| #1 | 6959.0 | 90456. | 6611.0 |
| #2 | 6923.1 | 90746. | 6582.2 |

Sample Name: 280-41961-b-10-a  Acquired: 5/14/2013 20:41:48  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **66.710** | **.02554** | **.00306** | **.68125** | **.00031** | F **-.06351** | **75.546** | **.00162** |
| Stddev | .00035 | .060 | .00376 | .00039 | .00049 | .00008 | .01035 | .054 | .00016 |
| %RSD | 136.05 | .08995 | 14.722 | 12.778 | .07223 | 26.033 | 16.303 | .07089 | 9.7632 |
| #1 | .00051 | 66.668 | .02289 | .00334 | .68159 | .00026 | -.07083 | 75.509 | .00151 |
| #2 | .00001 | 66.753 | .02820 | .00278 | .68090 | .00037 | -.05619 | 75.584 | .00173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09622** | **.08588** | **.15965** | **240.62** | **10.985** | **.06333** | **49.535** | **3.3742** | **.00159** |
| Stddev | .00073 | .00014 | .00019 | .89 | .007 | .00108 | .107 | .0096 | .00005 |
| %RSD | .75593 | .16767 | .11801 | .37010 | .05961 | 1.7005 | .21580 | .28372 | 3.2378 |
| #1 | .09673 | .08598 | .15952 | 239.99 | 10.980 | .06257 | 49.611 | 3.3810 | .00163 |
| #2 | .09570 | .08578 | .15978 | 241.25 | 10.989 | .06410 | 49.460 | 3.3674 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0332** | **.10666** | **10.482** | **.04938** | **.93910** | **.00686** | **-.00482** | **2.9589** | **.01910** |
| Stddev | .0115 | .00072 | .001 | .00023 | .00543 | .00103 | .00027 | .0100 | .00045 |
| %RSD | .37807 | .67140 | .01069 | .47160 | .57812 | 14.949 | 5.5846 | .33840 | 2.3699 |
| #1 | 3.0250 | .10717 | 10.482 | .04922 | .94294 | .00614 | -.00501 | 2.9659 | .01942 |
| #2 | 3.0413 | .10616 | 10.483 | .04955 | .93526 | .00759 | -.00463 | 2.9518 | .01878 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29452** | **.05614** | W **20.326** | **-.00837** | W **-.06843** | **.63342** | **.52762** | **.21839** |
| Stddev | .00036 | .00105 | .020 | .00110 | .04034 | .00181 | .00232 | .00027 |
| %RSD | .12353 | 1.8647 | .09625 | 13.122 | 58.954 | .28500 | .43888 | .12462 |
| #1 | .29477 | .05540 | 20.312 | -.00915 | -.03991 | .63469 | .52926 | .21858 |
| #2 | .29426 | .05688 | 20.340 | -.00759 | -.09696 | .63214 | .52598 | .21820 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6996.6** | **90647.** | **6537.7** |
| Stddev | 2.7 | 60. | 8.1 |
| %RSD | .03851 | .06656 | .12359 |
| #1 | 6994.7 | 90604. | 6543.4 |
| #2 | 6998.5 | 90689. | 6531.9 |

Sample Name: 280-41961-b-11-a  Acquired: 5/14/2013 20:44:14  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **77.793** | **.03237** | **.00827** | **.74777** | **.00155** | F **-.02885** | **52.088** | **.00151** |
| Stddev | .00043 | .290 | .00206 | .00056 | .00408 | .00002 | .00366 | .247 | .00005 |
| %RSD | 55.104 | .37239 | 6.3758 | 6.8290 | .54570 | 1.4455 | 12.689 | .47388 | 3.3997 |
| #1 | .00109 | 77.998 | .03383 | .00787 | .75065 | .00156 | -.03144 | 52.262 | .00148 |
| #2 | .00048 | 77.589 | .03091 | .00867 | .74488 | .00153 | -.02626 | 51.913 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08441** | **.10543** | **.15229** | **223.45** | **14.856** | **.07198** | **44.698** | **3.1320** | **.00132** |
| Stddev | .00019 | .00017 | .00052 | .27 | .151 | .00084 | .045 | .0002 | .00028 |
| %RSD | .22448 | .16204 | .34021 | .11864 | 1.0148 | 1.1718 | .10034 | .00735 | 21.155 |
| #1 | .08455 | .10555 | .15192 | 223.26 | 14.962 | .07257 | 44.730 | 3.1318 | .00113 |
| #2 | .08428 | .10531 | .15266 | 223.63 | 14.749 | .07138 | 44.666 | 3.1321 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5391** | **.10892** | **8.8285** | **.04181** | **1.5576** | **.00181** | **-.00016** | **4.0185** | **.01575** |
| Stddev | .0275 | .00033 | .0133 | .00010 | .0003 | .00064 | .00215 | .0957 | .00036 |
| %RSD | 1.0835 | .29847 | .15089 | .22797 | .01890 | 35.597 | 1306.2 | 2.3811 | 2.3132 |
| #1 | 2.5585 | .10869 | 8.8379 | .04188 | 1.5578 | .00135 | -.00169 | 4.0862 | .01600 |
| #2 | 2.5196 | .10915 | 8.8191 | .04175 | 1.5574 | .00226 | .00136 | 3.9509 | .01549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27082** | **.06323** | W **14.104** | **-.00651** | W **-.05619** | **.52970** | **.46747** | **.18501** |
| Stddev | .00214 | .00063 | .112 | .00172 | .00243 | .00006 | .00110 | .00200 |
| %RSD | .78899 | .99858 | .79723 | 26.358 | 4.3302 | .01095 | .23609 | 1.0807 |
| #1 | .27233 | .06278 | 14.024 | -.00772 | -.05791 | .52974 | .46825 | .18642 |
| #2 | .26931 | .06368 | 14.183 | -.00529 | -.05447 | .52966 | .46669 | .18360 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7041.4** | **91493.** | **6649.7** |
| Stddev | 1.9 | 49. | 65.7 |
| %RSD | .02727 | .05394 | .98834 |
| #1 | 7042.7 | 91459. | 6603.3 |
| #2 | 7040.0 | 91528. | 6696.2 |

Sample Name: 280-41961-b-12-a  Acquired: 5/14/2013 20:46:38  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **84.881** | **.03125** | **.00804** | **.77116** | **.00117** | F **-.04887** | **59.269** | **.00175** |
| Stddev | .00054 | .046 | .00090 | .00006 | .00097 | .00016 | .00807 | .024 | .00001 |
| %RSD | 133.90 | .05454 | 2.8928 | .74625 | .12591 | 13.317 | 16.520 | .03984 | .60749 |
| #1 | .00002 | 84.849 | .03189 | .00800 | .77185 | .00106 | -.05458 | 59.252 | .00176 |
| #2 | .00079 | 84.914 | .03062 | .00808 | .77048 | .00128 | -.04316 | 59.285 | .00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10276** | **.10280** | **.15588** | **251.85** | **17.164** | **.07735** | **55.777** | **3.9108** | **.00121** |
| Stddev | .00010 | .00011 | .00049 | .31 | .064 | .00016 | .045 | .0122 | .00017 |
| %RSD | .09637 | .11142 | .31533 | .12400 | .37128 | .20246 | .08144 | .31218 | 14.175 |
| #1 | .10283 | .10288 | .15623 | 251.63 | 17.209 | .07724 | 55.745 | 3.9022 | .00134 |
| #2 | .10269 | .10272 | .15554 | 252.07 | 17.119 | .07746 | 55.809 | 3.9194 | .00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.8213** | **.13249** | **9.9367** | **.04919** | **1.2982** | **.00396** | **-.00178** | **3.8909** | **.01801** |
| Stddev | .0102 | .00007 | .0029 | .00125 | .0004 | .00174 | .00098 | .0853 | .00034 |
| %RSD | .36115 | .05564 | .02864 | 2.5406 | .03147 | 44.057 | 55.242 | 2.1931 | 1.8841 |
| #1 | 2.8141 | .13244 | 9.9347 | .04831 | 1.2984 | .00272 | -.00248 | 3.9513 | .01777 |
| #2 | 2.8285 | .13255 | 9.9387 | .05008 | 1.2979 | .00519 | -.00109 | 3.8306 | .01825 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29906** | **.06296** | W **18.268** | **-.00906** | W **-.05027** | **.59535** | **.51218** | **.23206** |
| Stddev | .00101 | .00115 | .147 | .00105 | .01429 | .00056 | .00246 | .00276 |
| %RSD | .33665 | 1.8239 | .80718 | 11.579 | 28.431 | .09414 | .48060 | 1.1874 |
| #1 | .29977 | .06215 | 18.164 | -.00980 | -.06038 | .59495 | .51044 | .23401 |
| #2 | .29835 | .06377 | 18.373 | -.00832 | -.04017 | .59574 | .51392 | .23011 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6993.3** | **90690.** | **6546.8** |
| Stddev | 2.1 | 186. | 3.4 |
| %RSD | .03074 | .20455 | .05156 |
| #1 | 6994.9 | 90821. | 6549.2 |
| #2 | 6991.8 | 90559. | 6544.4 |

Sample Name: 280-41961-b-13-a  Acquired: 5/14/2013 20:49:08  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **81.067** | **.03046** | **.00753** | **.76197** | **.00151** | F **-.02165** | **41.834** | **.00176** |
| Stddev | .00008 | .031 | .00130 | .00001 | .00240 | .00002 | .00241 | .042 | .00032 |
| %RSD | 18.395 | .03875 | 4.2534 | .10043 | .31557 | 1.0000 | 11.146 | .10014 | 18.103 |
| #1 | .00050 | 81.089 | .02954 | .00753 | .76367 | .00152 | -.01995 | 41.864 | .00198 |
| #2 | .00038 | 81.045 | .03138 | .00752 | .76027 | .00150 | -.02336 | 41.804 | .00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08065** | **.11176** | **.12674** | **208.33** | **16.517** | **.07645** | **46.390** | **3.4872** | **.00087** |
| Stddev | .00044 | .00044 | .00022 | .10 | .019 | .00184 | .030 | .0007 | .00019 |
| %RSD | .54011 | .39481 | .17287 | .04909 | .11750 | 2.4004 | .06392 | .02030 | 21.631 |
| #1 | .08035 | .11145 | .12659 | 208.26 | 16.531 | .07775 | 46.411 | 3.4877 | .00074 |
| #2 | .08096 | .11208 | .12690 | 208.40 | 16.503 | .07516 | 46.369 | 3.4867 | .00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9399** | **.11197** | **8.5794** | **.04834** | **.44226** | **.00475** | **-.00028** | **3.6340** | **.01493** |
| Stddev | .0101 | .00063 | .0053 | .00110 | .00287 | .00011 | .00118 | .0050 | .00005 |
| %RSD | .52329 | .56171 | .06221 | 2.2787 | .64924 | 2.3649 | 423.15 | .13799 | .35734 |
| #1 | 1.9471 | .11153 | 8.5832 | .04911 | .44023 | .00467 | -.00111 | 3.6305 | .01489 |
| #2 | 1.9327 | .11242 | 8.5756 | .04756 | .44429 | .00483 | .00056 | 3.6376 | .01496 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23969** | **.05882** | W **13.846** | **-.00533** | **-.03701** | **.49142** | **.46219** | **.18102** |
| Stddev | .00068 | .00098 | .001 | .00001 | .02539 | .00053 | .00013 | .00133 |
| %RSD | .28490 | 1.6736 | .00610 | .26385 | 68.602 | .10797 | .02734 | .73409 |
| #1 | .24017 | .05812 | 13.846 | -.00534 | -.01906 | .49105 | .46228 | .18008 |
| #2 | .23920 | .05951 | 13.847 | -.00532 | -.05497 | .49180 | .46210 | .18196 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6915.5** | **88536.** | **6433.0** |
| Stddev | .3 | 393. | 17.1 |
| %RSD | .00370 | .44368 | .26650 |
| #1 | 6915.7 | 88258. | 6420.9 |
| #2 | 6915.3 | 88813. | 6445.1 |

Sample Name: 280-41961-a-14-a  Acquired: 5/14/2013 20:51:33  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173351 soil WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **1.7461** | **-.00041** | **-.00757** | **.01826** | **.00017** | **-.00033** | **.35041** | **.00000** |
| Stddev | .00030 | .0011 | .00195 | .00065 | .00009 | .00008 | .00081 | .00376 | .00008 |
| %RSD | 199.70 | .06220 | 474.12 | 8.5767 | .50040 | 48.743 | 243.17 | 1.0733 | 2264.1 |
| #1 | -.00037 | 1.7469 | .00097 | -.00803 | .01832 | .00011 | -.00091 | .35307 | -.00005 |
| #2 | .00006 | 1.7454 | -.00179 | -.00711 | .01820 | .00023 | .00024 | .34775 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **.00111** | **.00133** | **2.3805** | **.37084** | **.00353** | **.22507** | **.04685** | **.00011** |
| Stddev | .00002 | .00008 | .00022 | .0213 | .00870 | .00021 | .00124 | .00007 | .00030 |
| %RSD | 1.4741 | 7.1620 | 16.764 | .89539 | 2.3458 | 5.8262 | .55055 | .14269 | 280.47 |
| #1 | .00107 | .00105 | .00117 | 2.3955 | .37699 | .00339 | .22595 | .04689 | .00032 |
| #2 | .00110 | .00116 | .00148 | 2.3654 | .36469 | .00368 | .22420 | .04680 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18261** | **.00082** | **.12437** | **.00244** | **.05394** | **-.00169** | **-.00220** | **1.1473** | **.00471** |
| Stddev | .01373 | .00037 | .00292 | .00009 | .00241 | .00030 | .00266 | .0063 | .00014 |
| %RSD | 7.5186 | 45.529 | 2.3488 | 3.6663 | 4.4598 | 17.875 | 120.56 | .55266 | 2.9147 |
| #1 | .17290 | .00056 | .12231 | .00251 | .05564 | -.00148 | -.00032 | 1.1518 | .00461 |
| #2 | .19232 | .00108 | .12644 | .00238 | .05224 | -.00191 | -.00408 | 1.1429 | .00481 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00463** | **.00879** | **.05624** | **-.00223** | **.01922** | **.00286** | **.01675** | **.00811** |
| Stddev | .00011 | .00046 | .00094 | .00024 | .01884 | .00005 | .00032 | .00179 |
| %RSD | 2.4478 | 5.2804 | 1.6651 | 10.731 | 98.001 | 1.8103 | 1.9295 | 22.042 |
| #1 | .00471 | .00912 | .05691 | -.00206 | .03254 | .00282 | .01698 | .00938 |
| #2 | .00455 | .00847 | .05558 | -.00240 | .00590 | .00289 | .01652 | .00685 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6667.3** | **86165.** | **6137.6** |
| Stddev | 6.1 | 54. | 11.2 |
| %RSD | .09211 | .06249 | .18239 |
| #1 | 6671.6 | 86127. | 6129.6 |
| #2 | 6663.0 | 86203. | 6145.5 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 20:53:59 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00745** | **49.756** | **-.00204** | **-.00685** | **.00099** | **-.00008** | **1.0060** | **-.00592** | **-.00078** | **.00206** | **.00008** | **.00096** | **50.710** |
| Stddev | .00060 | .334 | .00077 | .00015 | .00007 | .00003 | .0001 | .00160 | .00014 | .00005 | .00014 | .00014 | .072 |
| %RSD | 8.0868 | .67147 | 37.917 | 2.2187 | 6.7505 | 41.386 | .00755 | 26.994 | 18.163 | 2.2357 | 186.68 | 14.975 | .14275 |
| #1 | .00787 | 49.520 | -.00259 | -.00696 | .00094 | -.00005 | 1.0061 | -.00479 | -.00068 | .00209 | -.00002 | .00086 | 50.761 |
| #2 | .00702 | 49.992 | -.00149 | -.00674 | .00104 | -.00010 | 1.0060 | -.00705 | -.00088 | .00202 | .00017 | .00106 | 50.659 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07233** | **.00453** | **-.01323** | **-.00072** | **-.00189** | **254.59** | **.00117** | **-.00910** | **.00010** | **5.1507** | **-.00183** | **.00187** | **.01349** |
| Stddev | .00165 | .00075 | .00076 | .00001 | .00012 | 1.77 | .00006 | .00033 | .00040 | .0018 | .00195 | .00027 | .00616 |
| %RSD | 2.2830 | 16.545 | 5.7468 | 1.4013 | 6.4547 | .69590 | 5.0383 | 3.6801 | 389.30 | .03405 | 106.27 | 14.298 | 45.624 |
| #1 | -.07116 | .00400 | -.01377 | -.00073 | -.00198 | 253.33 | .00113 | -.00933 | .00039 | 5.1495 | -.00321 | .00206 | .00914 |
| #2 | -.07349 | .00506 | -.01270 | -.00072 | -.00181 | 255.84 | .00121 | -.00886 | -.00018 | 5.1520 | -.00046 | .00168 | .01785 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00017** | **5.1288** | **.00274** | **-.00202** | **10.042** | **-.00083** | **.00258** | **-.04116** |
| Stddev | .00080 | .00015 | .0076 | .00038 | .00064 | .005 | .00026 | .00002 | .00085 |
| %RSD | 365.54 | 91.745 | .14866 | 13.965 | 31.540 | .05012 | 31.403 | .60193 | 2.0660 |
| #1 | .00079 | .00006 | 5.1234 | .00247 | -.00157 | 10.039 | -.00102 | .00259 | -.04176 |
| #2 | -.00035 | .00028 | 5.1342 | .00301 | -.00247 | 10.046 | -.00065 | .00257 | -.04056 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6225.1** | **80493.** | **5848.8** |
| Stddev | 2.4 | 210. | 8.4 |
| %RSD | .03912 | .26116 | .14413 |
| #1 | 6226.8 | 80344. | 5842.8 |
| #2 | 6223.4 | 80641. | 5854.8 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 20:56:28 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52308** | **.49626** | **1.0139** | **.49067** | **.49972** | **.47768** | **.00145** | **4.9794** | **.50706** | **.51232** | **.49673** | **.50061** | **2.4451** | **49.954** |
| Stddev | .00371 | .00050 | .0012 | .00087 | .00125 | .00157 | .00075 | .0194 | .00015 | .00063 | .00010 | .00395 | .0030 | .071 |
| %RSD | .70929 | .10099 | .11333 | .17801 | .25060 | .32900 | 51.933 | .38904 | .02911 | .12232 | .01981 | .78858 | .12227 | .14154 |
| #1 | .52045 | .49590 | 1.0147 | .49005 | .49884 | .47657 | .00198 | 4.9657 | .50695 | .51276 | .49680 | .49782 | 2.4472 | 49.904 |
| #2 | .52570 | .49661 | 1.0130 | .49129 | .50061 | .47879 | .00092 | 4.9931 | .50716 | .51188 | .49666 | .50340 | 2.4430 | 50.004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99670** | **20.939** | **.51911** | **.49101** | **4.8272** | **.50520** | **.97774** | **1.0205** | **.00798** | **1.0124** | **.99614** | **4.8881** | **.98983** | **.48346** |
| Stddev | .00200 | .140 | .00399 | .00044 | .0002 | .00005 | .00198 | .0025 | .00182 | .0021 | .00319 | .0316 | .00187 | .00024 |
| %RSD | .20097 | .66919 | .76852 | .08903 | .00488 | .00965 | .20275 | .24630 | 22.748 | .20375 | .31988 | .64710 | .18892 | .04914 |
| #1 | .99529 | 20.840 | .51629 | .49070 | 4.8270 | .50524 | .97914 | 1.0187 | .00670 | 1.0109 | .99389 | 4.8657 | .99116 | .48329 |
| #2 | .99812 | 21.038 | .52193 | .49132 | 4.8274 | .50517 | .97634 | 1.0223 | .00927 | 1.0138 | .99840 | 4.9104 | .98851 | .48362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00193** | **.50803** | **.98730** | **.02254** | **.50482** | **.53294** | **.49896** |
| Stddev | .00079 | .00291 | .00062 | .01373 | .00437 | .00474 | .00013 |
| %RSD | 40.743 | .57363 | .06284 | 60.917 | .86483 | .88878 | .02595 |
| #1 | .00137 | .50597 | .98686 | .01283 | .50173 | .52959 | .49905 |
| #2 | .00248 | .51009 | .98774 | .03225 | .50791 | .53629 | .49887 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6396.1** | **82992.** | **5928.4** |
| Stddev | 5.3 | 355. | 8.5 |
| %RSD | .08357 | .42729 | .14300 |
| #1 | 6392.4 | 83243. | 5934.4 |
| #2 | 6399.9 | 82741. | 5922.4 |

Sample Name: CCB Acquired: 5/14/2013 20:58:42 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **-.00057** | **.00051** | F **-.00768** | **.00028** | **-.00003** | **-.00110** | **-.00441** | **-.00005** | **.00026** | **.00007** |
| Stddev | .00025 | .00003 | .00065 | .00013 | .00003 | .00004 | .00218 | .00494 | .00014 | .00001 | .00002 |
| %RSD | 64.573 | 5.6773 | 127.45 | 1.6442 | 8.8113 | 143.41 | 196.99 | 111.94 | 253.28 | 2.8649 | 33.373 |
| #1 | .00021 | -.00059 | .00005 | -.00759 | .00030 | .00000 | .00043 | -.00790 | .00004 | .00027 | .00005 |
| #2 | .00056 | -.00055 | .00097 | -.00777 | .00027 | -.00006 | -.00264 | -.00092 | -.00015 | .00026 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.00181** | **-.12016** | **.00074** | **-.00070** | **-.00002** | **-.00021** | **-.03210** | **.00000** | F **-.01122** | **.00008** |
| Stddev | .00052 | .00104 | .04095 | .00049 | .00175 | .00007 | .00023 | .00411 | .00002 | .00104 | .00106 |
| %RSD | 476.36 | 57.297 | 34.078 | 66.594 | 249.08 | 265.64 | 109.72 | 12.815 | 796.10 | 9.3043 | 1278.9 |
| #1 | .00026 | .00255 | -.09121 | .00108 | .00054 | -.00007 | -.00038 | -.02919 | -.00001 | -.01048 | -.00067 |
| #2 | -.00048 | .00108 | -.14911 | .00039 | -.00194 | .00002 | -.00005 | -.03501 | .00002 | -.01196 | .00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | | .01000 | |
| Low Limit | | | | | | | | | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00602** | **-.00232** | **-.00158** | **.01048** | **.00002** | **.00006** | **.00058** | **-.00021** | **.00034** | **.02164** | **.00017** |
| Stddev | .00000 | .00191 | .00352 | .02343 | .00028 | .00004 | .00080 | .00024 | .00057 | .01740 | .00020 |
| %RSD | .03903 | 82.504 | 222.35 | 223.56 | 1321.8 | 79.825 | 137.94 | 113.72 | 167.71 | 80.413 | 113.77 |
| #1 | .00602 | -.00097 | -.00407 | .02705 | -.00017 | .00009 | .00114 | -.00004 | .00074 | .00934 | .00003 |
| #2 | .00602 | -.00367 | .00091 | -.00609 | .00022 | .00002 | .00001 | -.00037 | -.00006 | .03395 | .00031 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00252** | **.00019** |
| Stddev | .00015 | .00019 |
| %RSD | 5.9976 | 99.950 |
| #1 | .00241 | .00006 |
| #2 | .00263 | .00033 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6410.9** | **83971.** | **5892.9** |
| Stddev | 8.5 | 302. | 2.2 |
| %RSD | .13255 | .35910 | .03765 |
| #1 | 6416.9 | 84184. | 5894.5 |
| #2 | 6404.9 | 83758. | 5891.4 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 21:01:10 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01062** | **.09723** | **.01424** | **.08845** | **.01069** | **.00092** | **.10389** | **.19980** | **.00521** | **.01079** | **.01005** |
| Stddev | .00036 | .00036 | .00105 | .00053 | .00030 | .00007 | .00050 | .00030 | .00001 | .00008 | .00006 |
| %RSD | 3.4070 | .37425 | 7.3712 | .60432 | 2.8511 | 7.5991 | .48121 | .14778 | .27293 | .69873 | .63731 |
| #1 | .01036 | .09697 | .01350 | .08807 | .01090 | .00087 | .10425 | .20000 | .00522 | .01074 | .01001 |
| #2 | .01087 | .09748 | .01498 | .08883 | .01047 | .00097 | .10354 | .19959 | .00520 | .01085 | .01010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01490** | **.09717** | **3.0560** | **.01198** | **.21395** | **.01051** | **.01919** | **.95451** | **.04119** | **2.8797** | **.00999** |
| Stddev | .00025 | .00133 | .0301 | .00128 | .00264 | .00000 | .00007 | .01182 | .00019 | .0160 | .00186 |
| %RSD | 1.6801 | 1.3668 | .98418 | 10.697 | 1.2318 | .02563 | .38434 | 1.2385 | .46776 | .55743 | 18.595 |
| #1 | .01508 | .09623 | 3.0773 | .01288 | .21582 | .01051 | .01914 | .96287 | .04133 | 2.8910 | .01131 |
| #2 | .01472 | .09811 | 3.0347 | .01107 | .21209 | .01050 | .01924 | .94615 | .04105 | 2.8683 | .00868 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00536** | **.00969** | W **.01123** | **.48565** | **.09930** | **.00982** | **.01540** | **.01004** | **.01372** | **.07118** | **.00961** |
| Stddev | .00228 | .00217 | .00168 | .00040 | .00117 | .00017 | .00224 | .00015 | .00061 | .03545 | .00003 |
| %RSD | 42.446 | 22.347 | 14.955 | .08286 | 1.1757 | 1.7635 | 14.534 | 1.5109 | 4.4297 | 49.800 | .26996 |
| #1 | .00375 | .01122 | .01004 | .48593 | .10012 | .00994 | .01698 | .01014 | .01329 | .04612 | .00959 |
| #2 | .00697 | .00816 | .01242 | .48536 | .09847 | .00970 | .01381 | .00993 | .01415 | .09625 | .00962 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | -20.000% | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02387** | **.01561** |
| Stddev | .00041 | .00128 |
| %RSD | 1.7353 | 8.1820 |
| #1 | .02416 | .01652 |
| #2 | .02358 | .01471 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6524.2** | **84927.** | **6021.5** |
| Stddev | 8.0 | 796. | 10.4 |
| %RSD | .12282 | .93719 | .17211 |
| #1 | 6529.9 | 84364. | 6028.9 |
| #2 | 6518.6 | 85490. | 6014.2 |

Sample Name: LB 280-173463/1-C Acquired: 5/14/2013 21:03:34 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00209** | **-.00044** | W **-.00740** | **.00107** | **-.00006** | **-.00191** | **.01011** | **-.00010** |
| Stddev | .00007 | .00006 | .00017 | .00038 | .00016 | .00004 | .00191 | .00590 | .00016 |
| %RSD | 177.07 | 2.9223 | 39.141 | 5.1208 | 15.047 | 68.053 | 99.777 | 58.354 | 158.69 |
| #1 | -.00009 | .00213 | -.00057 | -.00766 | .00118 | -.00003 | -.00056 | .01427 | -.00022 |
| #2 | .00001 | .00204 | -.00032 | -.00713 | .00095 | -.00008 | -.00326 | .00594 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00027** | **.00027** | **.01192** | **.03516** | **.00490** | **.00382** | **.00013** | **-.00017** |
| Stddev | .00000 | .00007 | .00030 | .00108 | .01695 | .00037 | .00243 | .00007 | .00016 |
| %RSD | .84585 | 24.209 | 109.93 | 9.0804 | 48.197 | 7.6245 | 63.580 | 54.050 | 93.410 |
| #1 | .00034 | .00032 | .00048 | .01269 | .02318 | .00464 | .00553 | .00008 | -.00029 |
| #2 | .00035 | .00023 | .00006 | .01116 | .04714 | .00517 | .00210 | .00018 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **282.08** | **.00011** | F **.20655** | **.00140** | **.01542** | **-.00123** | **-.00040** | W **.05063** | **.00046** |
| Stddev | 1.11 | .00031 | .00106 | .00195 | .00047 | .00253 | .00014 | .01262 | .00008 |
| %RSD | .39362 | 284.86 | .51173 | 139.21 | 3.0634 | 206.30 | 35.731 | 24.925 | 17.562 |
| #1 | 282.87 | .00033 | .20730 | .00278 | .01576 | -.00302 | -.00050 | .04171 | .00041 |
| #2 | 281.30 | -.00011 | .20580 | .00002 | .01509 | .00056 | -.00030 | .05955 | .00052 |
| Check ? | None | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00138** | **-.00030** | **-.00052** | **.01988** | **.00021** | **.00332** | **-.00011** |
| Stddev | .00011 | .00045 | .00009 | .00106 | .01060 | .00024 | .00002 | .00063 |
| %RSD | 73.039 | 32.606 | 29.245 | 203.98 | 53.307 | 118.91 | .52269 | 562.32 |
| #1 | .00007 | -.00170 | -.00024 | -.00127 | .02737 | .00003 | .00330 | -.00056 |
| #2 | .00022 | -.00106 | -.00036 | .00023 | .01239 | .00038 | .00333 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6236.3** | **81883.** | **5964.7** |
| Stddev | 5.3 | 160. | 40.4 |
| %RSD | .08516 | .19532 | .67701 |
| #1 | 6232.6 | 81769. | 5936.2 |
| #2 | 6240.1 | 81996. | 5993.3 |

Sample Name: LCS 280-173463/2-D Acquired: 5/14/2013 21:06:09 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22220** | **.37307** | **.82356** | **.18917** | **2.4183** | **.00942** | **.40111** | **9.6234** | **.22877** |
| Stddev | .00096 | .00098 | .00233 | .00030 | .0017 | .00003 | .00266 | .0269 | .00078 |
| %RSD | .43102 | .26372 | .28306 | .16106 | .06808 | .32819 | .66313 | .27958 | .34116 |
| #1 | .22288 | .37377 | .82191 | .18895 | 2.4194 | .00940 | .39923 | 9.6424 | .22822 |
| #2 | .22152 | .37238 | .82521 | .18938 | 2.4171 | .00944 | .40299 | 9.6044 | .22932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10011** | **1.0345** | **.45653** | F **.24725** | **9.9255** | **.19911** | **9.9237** | **.10071** | **.19554** |
| Stddev | .00006 | .0013 | .00095 | .00348 | .1087 | .00346 | .0166 | .00003 | .00016 |
| %RSD | .06293 | .12502 | .20747 | 1.4056 | 1.0950 | 1.7395 | .16767 | .02831 | .08311 |
| #1 | .10006 | 1.0354 | .45720 | .24971 | 10.002 | .19666 | 9.9355 | .10069 | .19542 |
| #2 | .10015 | 1.0336 | .45586 | .24479 | 9.8486 | .20156 | 9.9120 | .10073 | .19565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .24000 | | | | | |
| Low Limit | | | | .16000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **277.77** | **.09810** | **2.2300** | **1.1129** | **.01106** | **.10179** | **.60740** | F **1.9659** | **.38970** |
| Stddev | .57 | .00053 | .0083 | .0024 | .00100 | .00081 | .00565 | .0144 | .00079 |
| %RSD | .20466 | .54204 | .37088 | .21412 | 9.0222 | .79958 | .92964 | .73164 | .20248 |
| #1 | 278.17 | .09772 | 2.2241 | 1.1113 | .01035 | .10121 | .61139 | 1.9558 | .39026 |
| #2 | 277.37 | .09848 | 2.2358 | 1.1146 | .01176 | .10237 | .60341 | 1.9761 | .38914 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 12.000 | | | | | | | .48000 | |
| Low Limit | 8.0000 | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18867** | **.20008** | **.20149** | **.37155** | **.42990** | **.10007** | **.54548** | **.09573** |
| Stddev | .00057 | .00018 | .00004 | .00006 | .02804 | .00051 | .00017 | .00227 |
| %RSD | .30295 | .09245 | .02030 | .01555 | 6.5234 | .50885 | .03087 | 2.3720 |
| #1 | .18907 | .19995 | .20146 | .37159 | .41007 | .10043 | .54536 | .09734 |
| #2 | .18826 | .20021 | .20152 | .37150 | .44974 | .09971 | .54559 | .09412 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6208.8** | **80640.** | **5925.6** |
| Stddev | 26.3 | 40. | 8.4 |
| %RSD | .42286 | .04938 | .14180 |
| #1 | 6190.2 | 80668. | 5919.6 |
| #2 | 6227.4 | 80611. | 5931.5 |

Sample Name: LCSD 280-173463/9-C Acquired: 5/14/2013 21:08:33 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23574** | **.39501** | **.87606** | **.20139** | **2.5688** | **.00993** | **.42816** | **10.227** | **.24287** |
| Stddev | .00060 | .00098 | .00057 | .00017 | .0243 | .00005 | .00004 | .107 | .00028 |
| %RSD | .25385 | .24814 | .06498 | .08236 | .94387 | .48297 | .00829 | 1.0490 | .11677 |
| #1 | .23532 | .39570 | .87566 | .20150 | 2.5517 | .00996 | .42814 | 10.151 | .24308 |
| #2 | .23616 | .39431 | .87646 | .20127 | 2.5860 | .00989 | .42819 | 10.303 | .24267 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10573** | **1.0943** | **.48290** | **.21174** | **10.553** | **.21014** | **10.475** | **.10585** | **.20679** |
| Stddev | .00021 | .0002 | .00046 | .00087 | .071 | .00248 | .019 | .00011 | .00026 |
| %RSD | .19543 | .01820 | .09594 | .41190 | .67261 | 1.1806 | .18226 | .10073 | .12406 |
| #1 | .10587 | 1.0942 | .48323 | .21112 | 10.503 | .20839 | 10.489 | .10592 | .20697 |
| #2 | .10558 | 1.0945 | .48257 | .21235 | 10.604 | .21190 | 10.462 | .10577 | .20661 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **295.23** | **.10347** | **2.3610** | **1.1725** | **.00730** | **.10744** | **.64844** | F **2.0766** | **.41039** |
| Stddev | 2.29 | .00056 | .0020 | .0020 | .00084 | .00078 | .00396 | .0404 | .00007 |
| %RSD | .77693 | .53673 | .08469 | .17380 | 11.541 | .72735 | .61031 | 1.9472 | .01754 |
| #1 | 293.61 | .10387 | 2.3624 | 1.1710 | .00789 | .10689 | .64564 | 2.0480 | .41034 |
| #2 | 296.86 | .10308 | 2.3595 | 1.1739 | .00670 | .10800 | .65124 | 2.1052 | .41044 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 12.000 | | | | | | | .48000 | |
| Low Limit | 8.0000 | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20060** | **.21048** | **.21232** | **.38906** | **.46889** | **.10542** | **.57524** | **.10123** |
| Stddev | .00203 | .00075 | .00018 | .00034 | .00846 | .00063 | .00028 | .00141 |
| %RSD | 1.0128 | .35547 | .08547 | .08767 | 1.8050 | .59817 | .04890 | 1.3909 |
| #1 | .19916 | .21101 | .21219 | .38882 | .47487 | .10586 | .57504 | .10024 |
| #2 | .20204 | .20995 | .21244 | .38930 | .46290 | .10497 | .57544 | .10223 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6206.1** | **81205.** | **5938.2** |
| Stddev | 28.3 | 53. | 61.3 |
| %RSD | .45611 | .06485 | 1.0329 |
| #1 | 6186.1 | 81167. | 5981.6 |
| #2 | 6226.1 | 81242. | 5894.9 |

Sample Name: 700-76377-B-1-D Acquired: 5/14/2013 21:10:57 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00151** | **.81544** | **.17884** | **.53353** | **.02127** | **.00047** | **.01864** | **14.457** | **.00038** |
| Stddev | .00002 | .00196 | .00170 | .00166 | .00013 | .00007 | .00262 | .026 | .00011 |
| %RSD | 1.0034 | .24053 | .95102 | .31027 | .59817 | 15.857 | 14.051 | .17726 | 29.791 |
| #1 | -.00149 | .81682 | .18004 | .53470 | .02136 | .00052 | .01679 | 14.475 | .00030 |
| #2 | -.00152 | .81405 | .17763 | .53236 | .02118 | .00041 | .02050 | 14.439 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **14.059** | **.01513** | **.00513** | **.11729** | **.43745** | **.00772** | **1.2095** | **.19815** | W **10.576** |
| Stddev | .000 | .00005 | .00003 | .00001 | .01921 | .00046 | .0048 | .00050 | .009 |
| %RSD | .00039 | .36329 | .52922 | .01265 | 4.3916 | 5.9334 | .39911 | .25245 | .08893 |
| #1 | 14.059 | .01517 | .00511 | .11730 | .45104 | .00804 | 1.2061 | .19779 | 10.583 |
| #2 | 14.060 | .01509 | .00515 | .11728 | .42387 | .00739 | 1.2129 | .19850 | 10.569 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | 5.0000 | | | | | | | | 2.0000 |
| Low Limit | -.01000 | | | | | | | | -.01000 |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **301.87** | W **41.687** | **.37365** | **-.00098** | **63.437** | **-.00301** | **.00341** | **1.7100** | **.00019** |
| Stddev | .83 | .023 | .00286 | .00077 | .027 | .00027 | .00035 | .0129 | .00022 |
| %RSD | .27532 | .05499 | .76504 | 79.371 | .04298 | 8.9698 | 10.113 | .75627 | 118.99 |
| #1 | 302.46 | 41.703 | .37567 | -.00152 | 63.418 | -.00320 | .00317 | 1.7009 | .00034 |
| #2 | 301.29 | 41.671 | .37163 | -.00043 | 63.456 | -.00282 | .00366 | 1.7191 | .00003 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | | | |
| Low Limit | | -.01000 | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20573** | **-.00246** | **-.00003** | W **-.01777** | **.03365** | **2.2837** | **.44595** | **-.00225** |
| Stddev | .00068 | .00325 | .00019 | .00040 | .02736 | .0006 | .00065 | .00344 |
| %RSD | .32960 | 132.24 | 726.27 | 2.2602 | 81.312 | .02439 | .14506 | 152.44 |
| #1 | .20621 | -.00016 | .00011 | -.01805 | .01430 | 2.2841 | .44549 | -.00468 |
| #2 | .20525 | -.00475 | -.00016 | -.01749 | .05299 | 2.2833 | .44641 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6255.2** | **81304.** | **5961.9** |
| Stddev | 10.6 | 240. | 23.6 |
| %RSD | .16928 | .29505 | .39535 |
| #1 | 6247.7 | 81473. | 5945.2 |
| #2 | 6262.7 | 81134. | 5978.6 |

Sample Name: 700-76378-B-1-D Acquired: 5/14/2013 21:13:58 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **.06957** | **.00077** | **.77990** | **.00925** | **.00005** | **.01013** | **54.897** | **.00052** |
| Stddev | .00003 | .00045 | .00038 | .00037 | .00012 | .00003 | .00058 | .613 | .00011 |
| %RSD | 7.3738 | .64748 | 49.361 | .04699 | 1.2628 | 54.620 | 5.7376 | 1.1165 | 20.908 |
| #1 | -.00044 | .06989 | .00050 | .77964 | .00933 | .00007 | .01054 | 55.331 | .00060 |
| #2 | -.00048 | .06925 | .00103 | .78016 | .00917 | .00003 | .00972 | 54.464 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00317** | **.00240** | F **52.194** | **.00997** | **1.9846** | **.00820** | **7.5632** | **.18823** | **.00060** |
| Stddev | .00020 | .00002 | .092 | .00128 | .0254 | .00140 | .0124 | .00038 | .00026 |
| %RSD | 6.1954 | .65106 | .17630 | 12.877 | 1.2813 | 17.120 | .16324 | .20118 | 43.708 |
| #1 | .00303 | .00241 | 52.129 | .01088 | 1.9666 | .00919 | 7.5719 | .18849 | .00079 |
| #2 | .00331 | .00239 | 52.259 | .00907 | 2.0026 | .00720 | 7.5545 | .18796 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | | | | |
| Low Limit | | | -.02000 | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **281.40** | W **31.299** | **.24171** | F **-.02343** | **4.1613** | **-.00228** | **-.00152** | **4.2984** | **-.00047** |
| Stddev | 3.51 | .047 | .00113 | .00111 | .0059 | .00144 | .00125 | .0335 | .00010 |
| %RSD | 1.2464 | .14906 | .46809 | 4.7470 | .14111 | 63.006 | 82.426 | .78009 | 21.620 |
| #1 | 283.89 | 31.332 | .24251 | -.02421 | 4.1655 | -.00127 | -.00063 | 4.3221 | -.00054 |
| #2 | 278.92 | 31.266 | .24091 | -.02264 | 4.1572 | -.00330 | -.00240 | 4.2747 | -.00040 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | 200.00 | | | | | |
| Low Limit | | -.01000 | | -.00900 | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03999** | **.00189** | **.00032** | **-.00176** | **-.00149** | **-.00251** | **.06880** | **.00032** |
| Stddev | .00042 | .00114 | .00058 | .00069 | .00827 | .00044 | .00056 | .00002 |
| %RSD | 1.0562 | 60.527 | 181.48 | 39.256 | 556.05 | 17.347 | .81572 | 6.5443 |
| #1 | .04029 | .00270 | .00073 | -.00127 | .00436 | -.00282 | .06920 | .00031 |
| #2 | .03969 | .00108 | -.00009 | -.00224 | -.00733 | -.00221 | .06841 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6154.1** | **81329.** | **5894.8** |
| Stddev | 1.5 | 266. | 60.9 |
| %RSD | .02396 | .32674 | 1.0326 |
| #1 | 6153.1 | 81141. | 5851.8 |
| #2 | 6155.2 | 81517. | 5937.9 |

Sample Name: 280-41949-D-14-F Acquired: 5/14/2013 21:16:32 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.05646** | **.00153** | **.00622** | **.05602** | **.00018** | **-.00107** | **55.838** | **.00021** |
| Stddev | .00074 | .00010 | .00242 | .00037 | .00053 | .00010 | .00104 | .225 | .00005 |
| %RSD | 377.52 | .17892 | 158.24 | 5.9585 | .94104 | 52.101 | 97.638 | .40262 | 23.457 |
| #1 | -.00072 | .05653 | -.00018 | .00649 | .05565 | .00025 | -.00180 | 55.679 | .00018 |
| #2 | .00033 | .05639 | .00324 | .00596 | .05640 | .00012 | -.00033 | 55.997 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00511** | **.00049** | **.00427** | **.12579** | **.86458** | **.00524** | **8.1598** | **.49769** | **-.00007** |
| Stddev | .00003 | .00001 | .00103 | .00126 | .00381 | .00050 | .0007 | .00119 | .00001 |
| %RSD | .61119 | 2.0895 | 24.156 | 1.0040 | .44054 | 9.5427 | .00902 | .24003 | 18.065 |
| #1 | .00508 | .00048 | .00500 | .12489 | .86189 | .00559 | 8.1604 | .49685 | -.00006 |
| #2 | .00513 | .00050 | .00354 | .12668 | .86728 | .00488 | 8.1593 | .49854 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **288.30** | **.00370** | **.22322** | **.03408** | **.58728** | **-.00130** | **.00367** | **.83111** | **.00040** |
| Stddev | 1.09 | .00049 | .00328 | .00036 | .00174 | .00098 | .00074 | .00322 | .00016 |
| %RSD | .37814 | 13.189 | 1.4675 | 1.0419 | .29697 | 75.047 | 20.020 | .38775 | 39.575 |
| #1 | 287.53 | .00405 | .22553 | .03433 | .58851 | -.00199 | .00315 | .83339 | .00052 |
| #2 | 289.07 | .00336 | .22090 | .03383 | .58604 | -.00061 | .00419 | .82883 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09035** | **-.00030** | **.00006** | **-.00134** | **.00253** | **.00040** | **.03438** | **.00203** |
| Stddev | .00025 | .00149 | .00028 | .00094 | .00736 | .00041 | .00007 | .00094 |
| %RSD | .27246 | 494.18 | 447.19 | 70.069 | 290.90 | 103.39 | .21162 | 46.139 |
| #1 | .09017 | .00075 | .00026 | -.00068 | -.00267 | .00011 | .03443 | .00137 |
| #2 | .09052 | -.00135 | -.00013 | -.00201 | .00773 | .00069 | .03433 | .00270 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6241.2** | **81832.** | **5974.5** |
| Stddev | 3.6 | 251. | 7.0 |
| %RSD | .05703 | .30615 | .11643 |
| #1 | 6238.7 | 81655. | 5979.4 |
| #2 | 6243.8 | 82009. | 5969.6 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 21:19:04 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00768** | **49.621** | **.00052** | **-.00638** | **.00105** | **-.00012** | **1.0060** | **.00296** | **-.00079** | **.00210** | **.00010** | **.00097** | **50.602** |
| Stddev | .00013 | .278 | .00028 | .00047 | .00016 | .00003 | .0044 | .00346 | .00013 | .00001 | .00018 | .00049 | .043 |
| %RSD | 1.6481 | .56110 | 53.751 | 7.2982 | 15.234 | 22.854 | .43852 | 116.88 | 15.945 | .32046 | 183.33 | 50.085 | .08593 |
| #1 | .00777 | 49.424 | .00071 | -.00605 | .00094 | -.00014 | 1.0091 | .00540 | -.00070 | .00211 | .00023 | .00132 | 50.632 |
| #2 | .00759 | 49.818 | .00032 | -.00671 | .00117 | -.00010 | 1.0029 | .00051 | -.00088 | .00210 | -.00003 | .00063 | 50.571 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04505** | **.00388** | **-.01160** | **-.00072** | **-.00192** | **253.79** | **.00146** | **-.00418** | **-.00037** | **5.1634** | **-.00073** | **.00176** | **.02186** |
| Stddev | .00014 | .00028 | .00318 | .00007 | .00022 | 1.63 | .00029 | .00204 | .00092 | .0023 | .00059 | .00390 | .02397 |
| %RSD | .30471 | 7.2258 | 27.397 | 9.5720 | 11.438 | .64181 | 19.755 | 48.811 | 249.96 | .04516 | 81.538 | 221.63 | 109.67 |
| #1 | .04515 | .00408 | -.00935 | -.00067 | -.00176 | 252.64 | .00166 | -.00563 | -.00102 | 5.1650 | -.00031 | .00452 | .03881 |
| #2 | .04496 | .00368 | -.01384 | -.00077 | -.00207 | 254.94 | .00126 | -.00274 | .00028 | 5.1617 | -.00115 | -.00100 | .00491 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **.00030** | **5.1345** | **.00270** | **-.00244** | **10.011** | **-.00026** | **.00316** | **-.03880** |
| Stddev | .00050 | .00009 | .0044 | .00023 | .00124 | .003 | .00031 | .00014 | .00102 |
| %RSD | 45.198 | 30.099 | .08572 | 8.6627 | 50.795 | .02554 | 121.23 | 4.3650 | 2.6282 |
| #1 | .00075 | .00037 | 5.1376 | .00253 | -.00332 | 10.010 | -.00004 | .00307 | -.03807 |
| #2 | .00145 | .00024 | 5.1314 | .00286 | -.00156 | 10.013 | -.00047 | .00326 | -.03952 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6330.4** | **82078.** | **5970.8** |
| Stddev | 12.8 | 28. | 32.1 |
| %RSD | .20143 | .03416 | .53843 |
| #1 | 6339.4 | 82098. | 5993.5 |
| #2 | 6321.3 | 82058. | 5948.1 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 21:21:33 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52728** | **.48788** | **1.0206** | **.49573** | **.50609** | **.48424** | **.00052** | **5.0303** | **.51097** | **.51489** | **.50036** | **.50666** | **2.4666** | **50.560** |
| Stddev | .00071 | .00007 | .0006 | .00116 | .00082 | .00163 | .00131 | .0063 | .00046 | .00087 | .00049 | .00028 | .0040 | .153 |
| %RSD | .13401 | .01500 | .05580 | .23334 | .16273 | .33711 | 250.79 | .12510 | .09008 | .16820 | .09739 | .05559 | .16271 | .30236 |
| #1 | .52778 | .48793 | 1.0210 | .49655 | .50668 | .48539 | -.00040 | 5.0348 | .51130 | .51428 | .50071 | .50646 | 2.4638 | 50.668 |
| #2 | .52679 | .48783 | 1.0202 | .49491 | .50551 | .48308 | .00145 | 5.0259 | .51065 | .51550 | .50002 | .50686 | 2.4695 | 50.452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0115** | **21.127** | **.52374** | **.49438** | **4.9562** | **.51059** | **.98988** | **1.0277** | **.00491** | **1.0245** | **1.0142** | **4.8903** | **.99927** | **.49055** |
| Stddev | .0018 | .031 | .00000 | .00131 | .0126 | .00229 | .00660 | .0043 | .00074 | .0053 | .0010 | .0098 | .00212 | .00212 |
| %RSD | .17934 | .14712 | .00038 | .26572 | .25365 | .44866 | .66654 | .41967 | 15.032 | .51264 | .09608 | .19997 | .21215 | .43267 |
| #1 | 1.0128 | 21.149 | .52374 | .49345 | 4.9651 | .50897 | .98522 | 1.0246 | .00543 | 1.0208 | 1.0149 | 4.8972 | .99777 | .49205 |
| #2 | 1.0102 | 21.105 | .52374 | .49531 | 4.9473 | .51221 | .99455 | 1.0307 | .00439 | 1.0282 | 1.0135 | 4.8833 | 1.0008 | .48904 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.51228** | **.99545** | **.03464** | **.50856** | **.54093** | **.50036** |
| Stddev | .00264 | .00125 | .00377 | .00604 | .00014 | .00152 | .00104 |
| %RSD | 412.00 | .24390 | .37847 | 17.435 | .02689 | .28091 | .20730 |
| #1 | -.00123 | .51140 | .99279 | .03891 | .50866 | .54200 | .50110 |
| #2 | .00251 | .51316 | .99811 | .03037 | .50846 | .53985 | .49963 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6438.4** | **83215.** | **5953.8** |
| Stddev | 3.7 | 357. | 5.0 |
| %RSD | .05677 | .42900 | .08330 |
| #1 | 6435.8 | 82962. | 5950.3 |
| #2 | 6441.0 | 83467. | 5957.3 |

Sample Name: CCB Acquired: 5/14/2013 21:23:46 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **-.00039** | **-.00176** | F **-.00686** | **.00022** | **-.00008** | **-.00090** | **-.00404** | **-.00008** | **.00021** | **-.00006** |
| Stddev | .00018 | .00035 | .00160 | .00018 | .00057 | .00011 | .00004 | .00055 | .00005 | .00026 | .00008 |
| %RSD | 64.817 | 89.190 | 91.127 | 2.6232 | 264.94 | 135.16 | 4.8090 | 13.617 | 67.649 | 128.28 | 121.69 |
| #1 | .00041 | -.00063 | -.00289 | -.00699 | .00062 | -.00000 | -.00093 | -.00443 | -.00011 | .00002 | -.00012 |
| #2 | .00015 | -.00014 | -.00063 | -.00673 | -.00019 | -.00016 | -.00087 | -.00365 | -.00004 | .00039 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00100** | **-.06725** | W **.00428** | **-.00284** | **-.00000** | **.00009** | **.03569** | **-.00013** | F **-.01033** | **.00140** |
| Stddev | .00042 | .00187 | .00407 | .00187 | .00229 | .00002 | .00014 | .01275 | .00007 | .00075 | .00204 |
| %RSD | 148.94 | 188.05 | 6.0549 | 43.760 | 80.594 | 994.92 | 156.31 | 35.725 | 52.505 | 7.2846 | 145.23 |
| #1 | .00058 | .00232 | -.07013 | .00296 | -.00446 | .00001 | .00019 | .04471 | -.00018 | -.01086 | .00284 |
| #2 | -.00002 | -.00033 | -.06437 | .00561 | -.00122 | -.00002 | -.00001 | .02668 | -.00008 | -.00980 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00261 | | | | | | .01000 | |
| Low Limit | | | | -.00261 | | | | | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00324** | **-.00254** | **.00054** | **.01437** | **-.00020** | **.00014** | **-.00196** | **.00014** | **-.00047** | **.03098** | **-.00009** |
| Stddev | .00123 | .00013 | .00052 | .01574 | .00019 | .00008 | .00210 | .00041 | .00136 | .00248 | .00016 |
| %RSD | 37.854 | 5.0764 | 95.043 | 109.56 | 98.073 | 56.679 | 107.33 | 298.43 | 291.40 | 7.9897 | 174.24 |
| #1 | .00411 | -.00263 | .00091 | .02550 | -.00006 | .00020 | -.00344 | .00043 | .00049 | .02923 | -.00021 |
| #2 | .00237 | -.00245 | .00018 | .00324 | -.00033 | .00008 | -.00047 | -.00015 | -.00143 | .03273 | .00002 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00241** | W **.00287** |
| Stddev | .00007 | .00015 |
| %RSD | 3.1141 | 5.2933 |
| #1 | .00235 | .00298 |
| #2 | .00246 | .00276 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6417.3** | **83403.** | **5968.5** |
| Stddev | 5.9 | 737. | 42.7 |
| %RSD | .09167 | .88383 | .71580 |
| #1 | 6421.4 | 82882. | 5938.3 |
| #2 | 6413.1 | 83924. | 5998.7 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 21:26:14 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01069** | **.09898** | **.01553** | **.09024** | **.01114** | **.00098** | **.10691** | **.20485** | **.00509** | **.01111** | **.01023** |
| Stddev | .00004 | .00003 | .00228 | .00017 | .00020 | .00007 | .00017 | .00207 | .00016 | .00014 | .00007 |
| %RSD | .40781 | .03319 | 14.658 | .19240 | 1.8218 | 7.3929 | .15669 | 1.0097 | 3.0955 | 1.2639 | .65428 |
| #1 | .01066 | .09896 | .01714 | .09036 | .01128 | .00093 | .10703 | .20338 | .00520 | .01101 | .01028 |
| #2 | .01072 | .09901 | .01392 | .09011 | .01099 | .00103 | .10679 | .20631 | .00498 | .01121 | .01019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01538** | **.09915** | **3.1059** | F **.01305** | **.22137** | **.01077** | **.01957** | **1.0422** | **.04175** | **2.9183** | **.01037** |
| Stddev | .00004 | .00092 | .0447 | .00003 | .00119 | .00006 | .00009 | .0015 | .00043 | .0010 | .00167 |
| %RSD | .27156 | .93096 | 1.4388 | .22469 | .53634 | .55014 | .44450 | .14844 | 1.0375 | .03469 | 16.123 |
| #1 | .01541 | .09980 | 3.1375 | .01307 | .22053 | .01073 | .01963 | 1.0433 | .04145 | 2.9175 | .00919 |
| #2 | .01535 | .09849 | 3.0743 | .01303 | .22221 | .01081 | .01950 | 1.0411 | .04206 | 2.9190 | .01155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | W **.00740** | **.01252** | **.49884** | **.10048** | **.01000** | **.01685** | **.01004** | **.01477** | **.07107** | **.01007** |
| Stddev | .00106 | .00070 | .00295 | .00115 | .00032 | .00000 | .00016 | .00030 | .00114 | .01348 | .00045 |
| %RSD | 96.008 | 9.4223 | 23.579 | .23144 | .31842 | .03410 | .91996 | 2.9698 | 7.7159 | 18.963 | 4.4347 |
| #1 | .00036 | .00790 | .01461 | .49966 | .10070 | .01000 | .01674 | .00982 | .01557 | .08060 | .01039 |
| #2 | .00186 | .00691 | .01043 | .49803 | .10025 | .01000 | .01696 | .01025 | .01396 | .06154 | .00975 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | -20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02437** | **.01543** |
| Stddev | .00007 | .00167 |
| %RSD | .28113 | 10.805 |
| #1 | .02432 | .01661 |
| #2 | .02442 | .01425 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6502.3** | **84514.** | **5938.8** |
| Stddev | 7.9 | 25. | 5.6 |
| %RSD | .12191 | .02985 | .09354 |
| #1 | 6507.9 | 84531. | 5934.9 |
| #2 | 6496.7 | 84496. | 5942.8 |

Sample Name: 280-41996-A-1-D Acquired: 5/14/2013 21:28:38 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.02589** | **.00217** | **.01158** | **.30692** | **.00011** | **-.00173** | **72.362** | **-.00003** |
| Stddev | .00044 | .00032 | .00103 | .00006 | .00046 | .00006 | .00104 | .119 | .00003 |
| %RSD | 1431.6 | 1.2218 | 47.493 | .55533 | .14854 | 51.933 | 60.213 | .16450 | 120.90 |
| #1 | .00034 | .02566 | .00290 | .01154 | .30724 | .00015 | -.00099 | 72.446 | -.00005 |
| #2 | -.00028 | .02611 | .00144 | .01163 | .30660 | .00007 | -.00246 | 72.278 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **.00034** | **.00121** | **1.0919** | **.95526** | **.00645** | **2.2930** | **1.4261** | **.00119** |
| Stddev | .00006 | .00017 | .00007 | .0069 | .02660 | .00114 | .0033 | .0012 | .00001 |
| %RSD | 2.8929 | 50.870 | 5.9504 | .62689 | 2.7851 | 17.596 | .14402 | .08224 | 1.2593 |
| #1 | .00203 | .00046 | .00126 | 1.0871 | .93645 | .00565 | 2.2953 | 1.4253 | .00118 |
| #2 | .00195 | .00022 | .00116 | 1.0968 | .97408 | .00725 | 2.2907 | 1.4269 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **240.85** | **.00172** | **.23509** | **.00443** | **.59031** | **-.00121** | **-.00016** | **.43411** | **.00020** |
| Stddev | .83 | .00029 | .00149 | .00021 | .00163 | .00256 | .00096 | .00738 | .00000 |
| %RSD | .34289 | 17.107 | .63502 | 4.8192 | .27538 | 211.24 | 599.12 | 1.7003 | 1.4252 |
| #1 | 241.44 | .00193 | .23404 | .00428 | .58916 | .00060 | .00052 | .43932 | .00020 |
| #2 | 240.27 | .00151 | .23615 | .00459 | .59146 | -.00303 | -.00084 | .42889 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13094** | **.00003** | **.00018** | **-.00141** | **.02299** | **.00084** | **.01652** | **.00157** |
| Stddev | .00048 | .00226 | .00043 | .00042 | .00015 | .00008 | .00038 | .00075 |
| %RSD | .36768 | 6935.1 | 242.56 | 29.814 | .64579 | 9.9688 | 2.3120 | 47.713 |
| #1 | .13128 | .00163 | -.00013 | -.00170 | .02288 | .00090 | .01679 | .00209 |
| #2 | .13060 | -.00157 | .00048 | -.00111 | .02309 | .00079 | .01625 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6302.5** | **81902.** | **6019.4** |
| Stddev | 1.9 | 20. | 34.7 |
| %RSD | .02982 | .02385 | .57613 |
| #1 | 6301.2 | 81888. | 5994.9 |
| #2 | 6303.9 | 81915. | 6043.9 |

Sample Name: 280-41996-A-2-D Acquired: 5/14/2013 21:31:09 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.11150** | **.00080** | **.10901** | **.09077** | **.00003** | **-.00156** | **91.299** | **.00048** |
| Stddev | .00000 | .00018 | .00029 | .00043 | .00054 | .00002 | .00171 | .559 | .00008 |
| %RSD | 1.7815 | .15779 | 36.951 | .39606 | .59280 | 55.895 | 109.15 | .61200 | 17.007 |
| #1 | -.00023 | .11162 | .00100 | .10871 | .09039 | .00004 | -.00036 | 90.904 | .00042 |
| #2 | -.00024 | .11138 | .00059 | .10932 | .09115 | .00002 | -.00277 | 91.694 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00206** | **.00128** | **.01010** | **.06524** | **1.8054** | **.00837** | **6.0591** | **.52745** | **.00741** |
| Stddev | .00005 | .00008 | .00006 | .00055 | .0293 | .00062 | .0012 | .00000 | .00012 |
| %RSD | 2.4276 | 6.4747 | .60030 | .84197 | 1.6232 | 7.4408 | .01992 | .00042 | 1.6596 |
| #1 | .00203 | .00134 | .01005 | .06485 | 1.7847 | .00793 | 6.0599 | .52745 | .00732 |
| #2 | .00210 | .00123 | .01014 | .06563 | 1.8261 | .00882 | 6.0582 | .52745 | .00749 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **304.63** | **.00359** | **.46165** | **.00228** | **12.961** | **-.00044** | **.00230** | **.99739** | **.00028** |
| Stddev | .82 | .00019 | .00193 | .00177 | .026 | .00021 | .00221 | .00640 | .00019 |
| %RSD | .27072 | 5.3586 | .41813 | 77.539 | .20163 | 48.050 | 95.948 | .64123 | 66.828 |
| #1 | 304.05 | .00345 | .46029 | .00103 | 12.980 | -.00029 | .00386 | 1.0019 | .00041 |
| #2 | 305.21 | .00373 | .46302 | .00353 | 12.943 | -.00059 | .00074 | .99287 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20388** | **.00047** | **.00067** | **-.00105** | **-.00267** | **.00363** | **.02892** | **.00249** |
| Stddev | .00102 | .00015 | .00017 | .00009 | .02127 | .00028 | .00015 | .00005 |
| %RSD | .50215 | 31.755 | 25.811 | 8.6929 | 795.68 | 7.8097 | .51408 | 1.8936 |
| #1 | .20315 | .00057 | .00055 | -.00111 | .01237 | .00343 | .02903 | .00245 |
| #2 | .20460 | .00036 | .00079 | -.00099 | -.01771 | .00383 | .02882 | .00252 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6301.2** | **82036.** | **6052.8** |
| Stddev | 22.9 | 331. | 6.1 |
| %RSD | .36372 | .40310 | .10103 |
| #1 | 6285.0 | 81802. | 6057.1 |
| #2 | 6317.4 | 82270. | 6048.5 |

Sample Name: sd 280-41996-A-2-D@5 Acquired: 5/14/2013 21:33:40 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.02296** | **-.00110** | **.01492** | **.01825** | **.00006** | **-.00013** | **18.188** | **.00016** |
| Stddev | .00013 | .00001 | .00084 | .00024 | .00035 | .00005 | .00100 | .030 | .00002 |
| %RSD | 57.870 | .02809 | 76.062 | 1.6195 | 1.8921 | 86.575 | 759.38 | .16646 | 11.969 |
| #1 | .00013 | .02296 | -.00169 | .01474 | .01800 | .00002 | .00057 | 18.166 | .00017 |
| #2 | .00032 | .02297 | -.00051 | .01509 | .01849 | .00009 | -.00084 | 18.209 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **.00031** | **.00210** | **.02082** | **.35215** | **.00299** | **1.2261** | **.10511** | **.00142** |
| Stddev | .00018 | .00022 | .00035 | .00208 | .01845 | .00047 | .0017 | .00003 | .00010 |
| %RSD | 29.856 | 72.057 | 16.780 | 9.9808 | 5.2396 | 15.869 | .13775 | .02726 | 6.8489 |
| #1 | .00048 | .00046 | .00234 | .02229 | .33910 | .00333 | 1.2273 | .10509 | .00135 |
| #2 | .00074 | .00015 | .00185 | .01935 | .36519 | .00266 | 1.2249 | .10513 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **61.438** | **.00058** | **.07933** | **.00148** | **2.4398** | **-.00169** | **-.00111** | **.21233** | **-.00022** |
| Stddev | .120 | .00004 | .00219 | .00157 | .0108 | .00022 | .00123 | .00149 | .00068 |
| %RSD | .19540 | 6.7589 | 2.7582 | 105.62 | .44169 | 13.035 | 110.52 | .70174 | 302.89 |
| #1 | 61.523 | .00055 | .07779 | .00259 | 2.4322 | -.00154 | -.00198 | .21128 | -.00070 |
| #2 | 61.354 | .00060 | .08088 | .00038 | 2.4474 | -.00185 | -.00024 | .21339 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04064** | **.00184** | **.00009** | **-.00150** | **-.00236** | **.00030** | **.00865** | **.00193** |
| Stddev | .00036 | .00027 | .00019 | .00049 | .00869 | .00019 | .00023 | .00079 |
| %RSD | .87575 | 14.854 | 218.86 | 32.767 | 368.78 | 61.543 | 2.6058 | 40.660 |
| #1 | .04039 | .00204 | -.00005 | -.00185 | -.00850 | .00043 | .00849 | .00249 |
| #2 | .04089 | .00165 | .00023 | -.00115 | .00379 | .00017 | .00881 | .00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6436.2** | **84157.** | **5985.9** |
| Stddev | 20.8 | 138. | 18.5 |
| %RSD | .32375 | .16372 | .30945 |
| #1 | 6450.9 | 84060. | 5999.0 |
| #2 | 6421.4 | 84255. | 5972.8 |

Sample Name: 280-41996-A-2-E MS  Acquired: 5/14/2013 21:36:06  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.20112** | **.42026** | **.74179** | **.26842** | **2.2477** | **.00843** | **.36046** | **86.598** | **.20545** |
| Stddev | .00022 | .00014 | .00151 | .00019 | .0016 | .00007 | .00260 | .153 | .00006 |
| %RSD | .11133 | .03405 | .20331 | .07209 | .07220 | .80931 | .72212 | .17642 | .02759 |
| #1 | .20096 | .42037 | .74286 | .26856 | 2.2488 | .00848 | .35862 | 86.706 | .20549 |
| #2 | .20128 | .42016 | .74073 | .26828 | 2.2466 | .00838 | .36230 | 86.490 | .20541 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09028** | **.91706** | **.42074** | **.22548** | **10.349** | **.18155** | **13.793** | **.53609** | **.18215** |
| Stddev | .00017 | .00023 | .00152 | .00179 | .058 | .00066 | .051 | .00143 | .00040 |
| %RSD | .19348 | .02503 | .36228 | .79495 | .56371 | .36468 | .36815 | .26658 | .21700 |
| #1 | .09016 | .91722 | .41967 | .22421 | 10.391 | .18202 | 13.757 | .53508 | .18243 |
| #2 | .09041 | .91689 | .42182 | .22675 | 10.308 | .18108 | 13.829 | .53711 | .18187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **269.23** | **.08871** | **2.2292** | **.98827** | **10.951** | **.09467** | **.54043** | **2.5866** | **.34697** |
| Stddev | 1.22 | .00017 | .0006 | .00361 | .018 | .00020 | .00231 | .0083 | .00051 |
| %RSD | .45211 | .18971 | .02491 | .36540 | .16607 | .20866 | .42814 | .32240 | .14588 |
| #1 | 270.09 | .08859 | 2.2288 | .98571 | 10.964 | .09453 | .54206 | 2.5807 | .34732 |
| #2 | 268.37 | .08882 | 2.2296 | .99082 | 10.938 | .09481 | .53879 | 2.5925 | .34661 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34083** | **.17740** | **.18241** | **.32921** | **.36167** | **.09176** | **.49444** | **.08697** |
| Stddev | .00072 | .00221 | .00024 | .00003 | .03750 | .00047 | .00036 | .00023 |
| %RSD | .21225 | 1.2431 | .12952 | .00976 | 10.369 | .50931 | .07251 | .26862 |
| #1 | .34134 | .17584 | .18224 | .32923 | .38819 | .09209 | .49470 | .08714 |
| #2 | .34032 | .17896 | .18258 | .32919 | .33516 | .09143 | .49419 | .08681 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6284.3** | **83361.** | **6047.7** |
| Stddev | 17.3 | 162. | 55.2 |
| %RSD | .27560 | .19482 | .91252 |
| #1 | 6296.5 | 83476. | 6008.7 |
| #2 | 6272.0 | 83246. | 6086.8 |

Sample Name: 280-41996-A-2-F MSD Acquired: 5/14/2013 21:38:28 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.22321** | **.46606** | **.82733** | **.29720** | **2.5116** | **.00941** | **.40072** | **94.825** | **.22852** |
| Stddev | .00150 | .00175 | .00076 | .00043 | .0057 | .00006 | .00005 | .072 | .00031 |
| %RSD | .67120 | .37473 | .09143 | .14305 | .22610 | .62512 | .01142 | .07609 | .13681 |
| #1 | .22427 | .46730 | .82786 | .29750 | 2.5076 | .00945 | .40075 | 94.774 | .22830 |
| #2 | .22215 | .46483 | .82679 | .29690 | 2.5156 | .00937 | .40069 | 94.876 | .22874 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10042** | **1.0238** | **.46806** | **.24313** | **11.626** | **.20502** | **15.343** | **.58851** | **.20221** |
| Stddev | .00004 | .0001 | .00248 | .00069 | .028 | .00174 | .096 | .00331 | .00004 |
| %RSD | .03780 | .01259 | .53060 | .28341 | .24487 | .84774 | .62324 | .56196 | .02037 |
| #1 | .10045 | 1.0239 | .46982 | .24264 | 11.647 | .20379 | 15.411 | .59085 | .20218 |
| #2 | .10039 | 1.0237 | .46630 | .24361 | 11.606 | .20625 | 15.276 | .58617 | .20224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **294.45** | **.09960** | **2.4627** | **1.1008** | **11.912** | **.10355** | **.60547** | **2.8816** | **.38758** |
| Stddev | .82 | .00010 | .0027 | .0029 | .016 | .00101 | .00072 | .0088 | .00142 |
| %RSD | .27897 | .09544 | .11113 | .26608 | .13196 | .97731 | .11956 | .30523 | .36633 |
| #1 | 295.03 | .09954 | 2.4646 | 1.1028 | 11.901 | .10427 | .60598 | 2.8878 | .38858 |
| #2 | 293.87 | .09967 | 2.4608 | 1.0987 | 11.923 | .10284 | .60496 | 2.8754 | .38657 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37682** | **.20040** | **.20388** | **.36420** | **.39679** | **.10293** | **.55287** | **.09856** |
| Stddev | .00089 | .00124 | .00084 | .00097 | .02223 | .00084 | .00390 | .00026 |
| %RSD | .23498 | .61737 | .41213 | .26589 | 5.6015 | .81822 | .70552 | .26283 |
| #1 | .37745 | .20127 | .20447 | .36488 | .38108 | .10353 | .55563 | .09837 |
| #2 | .37620 | .19952 | .20329 | .36351 | .41251 | .10234 | .55011 | .09874 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6219.6** | **81326.** | **5944.2** |
| Stddev | 21.8 | 540. | 15.6 |
| %RSD | .35026 | .66410 | .26307 |
| #1 | 6204.2 | 80944. | 5933.2 |
| #2 | 6235.1 | 81708. | 5955.3 |

Sample Name: pds 280-41996-A-2-D Acquired: 5/14/2013 21:40:48 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173759 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05591** | **1.0549** | **.21565** | **.21391** | **.19519** | **.05013** | **.00081** | **112.74** | **.05414** |
| Stddev | .00006 | .0039 | .00158 | .00121 | .00199 | .00005 | .00072 | .70 | .00020 |
| %RSD | .10699 | .36456 | .73360 | .56541 | 1.0209 | .09812 | 88.820 | .62022 | .36433 |
| #1 | .05596 | 1.0577 | .21453 | .21306 | .19379 | .05010 | .00030 | 112.25 | .05400 |
| #2 | .05587 | 1.0522 | .21677 | .21477 | .19660 | .05017 | .00132 | 113.24 | .05428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05401** | **.05216** | **.06391** | **1.0733** | **23.035** | **.11471** | **26.724** | **.58429** | **.05879** |
| Stddev | .00013 | .00019 | .00011 | .0017 | .120 | .00297 | .045 | .00104 | .00026 |
| %RSD | .23281 | .37364 | .16615 | .15465 | .51894 | 2.5933 | .16946 | .17730 | .43706 |
| #1 | .05392 | .05202 | .06383 | 1.0722 | 22.950 | .11260 | 26.756 | .58502 | .05861 |
| #2 | .05410 | .05229 | .06398 | 1.0745 | 23.120 | .11681 | 26.692 | .58356 | .05897 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **329.21** | **.05441** | **2.6295** | **.10531** | **12.979** | **.10664** | **.21545** | **6.1833** | **.10225** |
| Stddev | 1.82 | .00033 | .0148 | .00140 | .109 | .00283 | .00281 | .0334 | .00036 |
| %RSD | .55369 | .61489 | .56237 | 1.3272 | .83745 | 2.6533 | 1.3065 | .53981 | .35426 |
| #1 | 327.92 | .05418 | 2.6190 | .10432 | 12.902 | .10464 | .21346 | 6.1597 | .10199 |
| #2 | 330.50 | .05465 | 2.6399 | .10630 | 13.056 | .10864 | .21744 | 6.2069 | .10251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25679** | **.21355** | **.05477** | **.19315** | **.57368** | **.05653** | **.24929** | **.05204** |
| Stddev | .00156 | .00090 | .00022 | .00117 | .01751 | .00017 | .00103 | .00109 |
| %RSD | .60556 | .41961 | .40099 | .60609 | 3.0530 | .30526 | .41211 | 2.1013 |
| #1 | .25569 | .21291 | .05461 | .19232 | .58607 | .05666 | .25001 | .05281 |
| #2 | .25789 | .21418 | .05492 | .19398 | .56130 | .05641 | .24856 | .05127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6205.5** | **80871.** | **5895.5** |
| Stddev | 27.6 | 314. | 12.8 |
| %RSD | .44477 | .38844 | .21787 |
| #1 | 6186.0 | 80649. | 5904.6 |
| #2 | 6225.1 | 81093. | 5886.5 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 21:43:12 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00765** | **49.625** | **-.00095** | **-.00548** | **.00081** | **-.00003** | **1.0162** | **.00396** | **-.00075** | **.00214** | **.00002** | **.00072** | **50.688** |
| Stddev | .00024 | .184 | .00047 | .00003 | .00023 | .00005 | .0014 | .01151 | .00008 | .00025 | .00014 | .00001 | .291 |
| %RSD | 3.1156 | .36999 | 50.157 | .50864 | 28.186 | 131.05 | .13959 | 290.84 | 10.401 | 11.700 | 660.39 | 2.0484 | .57469 |
| #1 | .00748 | 49.754 | -.00061 | -.00546 | .00097 | -.00000 | 1.0172 | .01210 | -.00069 | .00196 | .00012 | .00073 | 50.894 |
| #2 | .00782 | 49.495 | -.00128 | -.00550 | .00065 | -.00007 | 1.0152 | -.00418 | -.00081 | .00232 | -.00008 | .00071 | 50.482 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03567** | **.00603** | **-.01259** | **-.00070** | **-.00178** | **252.91** | **.00135** | **-.00539** | **.00092** | **5.2114** | **-.00172** | **.00020** | **.01347** |
| Stddev | .04379 | .00234 | .00096 | .00000 | .00012 | 1.32 | .00004 | .00178 | .00188 | .0249 | .00097 | .00050 | .00735 |
| %RSD | 122.76 | 38.757 | 7.6107 | .37573 | 6.6960 | .52298 | 3.0543 | 33.056 | 205.54 | .47737 | 56.371 | 249.57 | 54.529 |
| #1 | .00471 | .00769 | -.01191 | -.00070 | -.00170 | 253.85 | .00132 | -.00665 | .00225 | 5.1938 | -.00103 | .00056 | .00828 |
| #2 | .06664 | .00438 | -.01326 | -.00070 | -.00186 | 251.98 | .00138 | -.00413 | -.00042 | 5.2290 | -.00240 | -.00015 | .01867 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00029** | **5.1627** | **.00308** | **-.00123** | **10.124** | **-.00056** | **.00335** | **-.04302** |
| Stddev | .00003 | .00009 | .0019 | .00013 | .00061 | .057 | .00008 | .00006 | .00268 |
| %RSD | 5.2277 | 31.789 | .03697 | 4.0973 | 50.023 | .56041 | 14.903 | 1.6537 | 6.2282 |
| #1 | .00054 | .00036 | 5.1613 | .00299 | -.00166 | 10.164 | -.00050 | .00331 | -.04491 |
| #2 | .00058 | .00023 | 5.1640 | .00317 | -.00079 | 10.084 | -.00062 | .00339 | -.04112 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6326.5** | **81733.** | **5975.4** |
| Stddev | 1.5 | 67. | 37.0 |
| %RSD | .02449 | .08184 | .61848 |
| #1 | 6325.4 | 81780. | 5949.3 |
| #2 | 6327.6 | 81685. | 6001.5 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 21:45:41 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53251** | **.48794** | **1.0283** | **.49898** | **.51196** | **.48655** | **.00113** | **5.0810** | **.51486** | **.51964** | **.50195** | **.50599** | **2.4849** | **51.106** |
| Stddev | .00167 | .00039 | .0009 | .00019 | .00283 | .00147 | .00097 | .0190 | .00014 | .00032 | .00055 | .00018 | .0036 | .202 |
| %RSD | .31322 | .07908 | .08912 | .03821 | .55272 | .30215 | 85.487 | .37428 | .02678 | .06141 | .10867 | .03639 | .14474 | .39501 |
| #1 | .53369 | .48822 | 1.0290 | .49911 | .50996 | .48551 | .00045 | 5.0675 | .51496 | .51986 | .50234 | .50612 | 2.4824 | 50.963 |
| #2 | .53133 | .48767 | 1.0277 | .49884 | .51397 | .48759 | .00182 | 5.0944 | .51476 | .51941 | .50157 | .50586 | 2.4875 | 51.249 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0243** | **21.180** | **.52658** | **.49556** | **5.0651** | **.51388** | **.99138** | **1.0331** | **.00299** | **1.0279** | **1.0141** | **4.9663** | **.99921** | **.49329** |
| Stddev | .0068 | .007 | .00008 | .00120 | .0084 | .00094 | .00188 | .0010 | .00273 | .0037 | .0005 | .0182 | .00150 | .00204 |
| %RSD | .66239 | .03319 | .01595 | .24197 | .16547 | .18207 | .18980 | .09320 | 91.451 | .35490 | .05292 | .36739 | .14991 | .41269 |
| #1 | 1.0196 | 21.185 | .52652 | .49641 | 5.0710 | .51455 | .99271 | 1.0338 | .00492 | 1.0305 | 1.0145 | 4.9792 | 1.0003 | .49185 |
| #2 | 1.0291 | 21.175 | .52664 | .49472 | 5.0591 | .51322 | .99005 | 1.0324 | .00105 | 1.0253 | 1.0137 | 4.9534 | .99815 | .49473 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.51542** | **.99961** | **.01136** | **.51085** | **.53965** | **.50356** |
| Stddev | .00076 | .00095 | .00032 | .01770 | .00003 | .00041 | .00003 |
| %RSD | 145.49 | .18484 | .03230 | 155.86 | .00547 | .07660 | .00500 |
| #1 | .00106 | .51609 | .99983 | -.00116 | .51087 | .53936 | .50354 |
| #2 | -.00001 | .51474 | .99938 | .02387 | .51083 | .53994 | .50357 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6405.6** | **82966.** | **5934.2** |
| Stddev | 19.9 | 146. | 27.4 |
| %RSD | .31143 | .17650 | .46192 |
| #1 | 6391.5 | 83069. | 5953.6 |
| #2 | 6419.7 | 82862. | 5914.8 |

Sample Name: CCB Acquired: 5/14/2013 21:47:55 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **-.00057** | **.00042** | F **-.00680** | W **.00065** | **.00003** | **-.00179** | **-.00407** | **-.00003** | **.00019** | **.00013** |
| Stddev | .00053 | .00012 | .00029 | .00047 | .00007 | .00005 | .00165 | .00138 | .00019 | .00030 | .00010 |
| %RSD | 168.65 | 20.646 | 70.029 | 6.8819 | 10.723 | 207.92 | 92.206 | 33.829 | 745.25 | 156.78 | 77.940 |
| #1 | -.00069 | -.00049 | .00021 | -.00647 | .00060 | .00006 | -.00296 | -.00309 | .00011 | .00041 | .00020 |
| #2 | .00006 | -.00066 | .00063 | -.00713 | .00070 | -.00001 | -.00062 | -.00504 | -.00016 | -.00002 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **-.00015** | **.00448** | **.00230** | **-.00154** | **-.00001** | **-.00011** | F **.10444** | **-.00024** | **-.00860** | **.00009** |
| Stddev | .00006 | .00008 | .03520 | .00072 | .00275 | .00000 | .00018 | .00402 | .00005 | .00094 | .00089 |
| %RSD | 16.576 | 57.597 | 785.31 | 31.340 | 178.55 | 16.015 | 161.38 | 3.8457 | 20.473 | 10.937 | 1032.9 |
| #1 | .00042 | -.00009 | -.02041 | .00282 | .00040 | -.00001 | .00002 | .10160 | -.00028 | -.00794 | -.00054 |
| #2 | .00033 | -.00020 | .02937 | .00179 | -.00349 | -.00001 | -.00024 | .10728 | -.00021 | -.00927 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00427** | **-.00040** | **-.00062** | **.01482** | **-.00027** | **.00003** | **.00156** | **-.00018** | **-.00079** | **.01725** | **.00016** |
| Stddev | .00140 | .00073 | .00255 | .00188 | .00076 | .00014 | .00358 | .00005 | .00186 | .00943 | .00024 |
| %RSD | 32.897 | 179.78 | 411.03 | 12.715 | 283.56 | 418.29 | 229.51 | 29.228 | 235.47 | 54.660 | 147.92 |
| #1 | .00328 | .00011 | .00118 | .01348 | -.00080 | .00013 | -.00097 | -.00021 | .00053 | .01058 | -.00001 |
| #2 | .00526 | -.00092 | -.00242 | .01615 | .00027 | -.00006 | .00409 | -.00014 | -.00210 | .02392 | .00034 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00243** | **.00161** |
| Stddev | .00011 | .00182 |
| %RSD | 4.3396 | 113.06 |
| #1 | .00251 | .00290 |
| #2 | .00236 | .00032 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6435.9** | **83928.** | **5907.0** |
| Stddev | 4.5 | 323. | 21.0 |
| %RSD | .07021 | .38464 | .35478 |
| #1 | 6439.1 | 83700. | 5892.1 |
| #2 | 6432.7 | 84156. | 5921.8 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 21:50:25 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01160** | **.09983** | **.01441** | **.09173** | **.01090** | **.00090** | **.10787** | **.20693** | **.00531** | **.01131** | **.01044** |
| Stddev | .00035 | .00014 | .00036 | .00037 | .00011 | .00001 | .00118 | .00112 | .00001 | .00015 | .00013 |
| %RSD | 3.0139 | .14173 | 2.5279 | .40223 | 1.0448 | 1.3205 | 1.0963 | .54231 | .19410 | 1.3383 | 1.2911 |
| #1 | .01135 | .09993 | .01466 | .09199 | .01082 | .00089 | .10871 | .20772 | .00532 | .01142 | .01054 |
| #2 | .01185 | .09973 | .01415 | .09147 | .01098 | .00091 | .10703 | .20613 | .00530 | .01121 | .01035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01533** | **.10068** | **3.1087** | F **.01362** | **.21678** | **.01091** | **.01978** | **1.1064** | **.04247** | **2.9569** | **.01030** |
| Stddev | .00014 | .00048 | .0039 | .00092 | .00015 | .00015 | .00010 | .0045 | .00037 | .0026 | .00063 |
| %RSD | .88913 | .47946 | .12470 | 6.7202 | .06736 | 1.4041 | .52320 | .40873 | .87078 | .08701 | 6.0784 |
| #1 | .01542 | .10034 | 3.1115 | .01427 | .21668 | .01081 | .01971 | 1.1096 | .04273 | 2.9551 | .01074 |
| #2 | .01523 | .10103 | 3.1060 | .01297 | .21689 | .01102 | .01985 | 1.1032 | .04221 | 2.9587 | .00985 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00196** | **.01098** | **.01365** | **.50494** | **.10220** | **.01013** | **.01537** | **.01077** | **.01475** | F **.09186** | **.00986** |
| Stddev | .00163 | .00171 | .00148 | .00024 | .00016 | .00001 | .00025 | .00033 | .00189 | .01111 | .00040 |
| %RSD | 83.535 | 15.545 | 10.834 | .04845 | .16051 | .10194 | 1.6092 | 3.0454 | 12.843 | 12.098 | 4.0430 |
| #1 | .00080 | .01219 | .01469 | .50477 | .10232 | .01012 | .01554 | .01054 | .01609 | .08400 | .00958 |
| #2 | .00311 | .00978 | .01260 | .50511 | .10209 | .01014 | .01519 | .01101 | .01341 | .09972 | .01014 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02471** | **.01614** |
| Stddev | .00011 | .00036 |
| %RSD | .44204 | 2.2564 |
| #1 | .02464 | .01588 |
| #2 | .02479 | .01639 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6545.0** | **84591.** | **5983.4** |
| Stddev | 4.9 | 63. | 13.7 |
| %RSD | .07528 | .07471 | .22897 |
| #1 | 6548.5 | 84636. | 5973.7 |
| #2 | 6541.5 | 84546. | 5993.0 |

Sample Name: mb 280-173956/1-b Acquired: 5/14/2013 21:52:51 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174101 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00219** | **.00016** | W **-.00717** | **.00008** | **.00003** | **-.00070** | **.00446** | **-.00005** |
| Stddev | .00024 | .00013 | .00031 | .00004 | .00019 | .00002 | .00231 | .00376 | .00006 |
| %RSD | 394.40 | 6.0643 | 195.03 | .58919 | 243.64 | 53.517 | 328.55 | 84.266 | 113.21 |
| #1 | .00011 | .00229 | -.00006 | -.00720 | -.00006 | .00004 | -.00233 | .00712 | -.00009 |
| #2 | -.00023 | .00210 | .00038 | -.00714 | .00021 | .00002 | .00093 | .00180 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00016** | **.00001** | **.00781** | **-.05000** | **.00372** | **-.00007** | **.00011** | **-.00016** |
| Stddev | .00008 | .00017 | .00025 | .00168 | .01078 | .00068 | .00048 | .00004 | .00015 |
| %RSD | 31.250 | 103.63 | 1674.7 | 21.517 | 21.563 | 18.401 | 681.05 | 34.437 | 93.521 |
| #1 | .00031 | .00028 | .00019 | .00900 | -.04237 | .00420 | .00027 | .00013 | -.00026 |
| #2 | .00020 | .00004 | -.00016 | .00662 | -.05762 | .00323 | -.00041 | .00008 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08783** | **-.00008** | F **.15979** | **.00129** | **.00473** | **-.00045** | **-.00249** | **.02088** | **-.00024** |
| Stddev | .01488 | .00002 | .00295 | .00041 | .00096 | .00012 | .00025 | .01773 | .00008 |
| %RSD | 16.937 | 19.086 | 1.8459 | 31.694 | 20.313 | 26.708 | 9.8493 | 84.952 | 33.002 |
| #1 | .07731 | -.00007 | .16187 | .00100 | .00541 | -.00053 | -.00267 | .03342 | -.00029 |
| #2 | .09834 | -.00009 | .15770 | .00158 | .00405 | -.00036 | -.00232 | .00834 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **-.00136** | **.00006** | **-.00129** | **.03142** | **-.00038** | **.00320** | **-.00051** |
| Stddev | .00008 | .00080 | .00003 | .00082 | .01275 | .00013 | .00021 | .00097 |
| %RSD | 4917.1 | 59.203 | 44.557 | 63.812 | 40.592 | 33.071 | 6.6666 | 190.91 |
| #1 | -.00005 | -.00192 | .00008 | -.00187 | .02240 | -.00029 | .00304 | -.00120 |
| #2 | .00006 | -.00079 | .00004 | -.00071 | .04044 | -.00047 | .00335 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6569.1** | **85945.** | **6057.2** |
| Stddev | 11.5 | 90. | 32.8 |
| %RSD | .17514 | .10529 | .54225 |
| #1 | 6560.9 | 85881. | 6034.0 |
| #2 | 6577.2 | 86009. | 6080.4 |

Sample Name: lcs 280-173956/7-b Acquired: 5/14/2013 21:55:21 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05578** | **1.8495** | **1.0247** | **1.0094** | **2.0401** | **.04842** | **2.0663** | **49.706** | **.10473** |
| Stddev | .00032 | .0021 | .0008 | .0006 | .0080 | .00007 | .0061 | .157 | .00050 |
| %RSD | .57597 | .11555 | .08107 | .05926 | .39068 | .15233 | .29493 | .31642 | .47769 |
| #1 | .05556 | 1.8479 | 1.0241 | 1.0090 | 2.0458 | .04847 | 2.0706 | 49.817 | .10508 |
| #2 | .05601 | 1.8510 | 1.0253 | 1.0098 | 2.0345 | .04837 | 2.0620 | 49.595 | .10437 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50343** | **.19919** | **.25022** | **.98045** | **50.739** | **1.0085** | **52.171** | **.51375** | **.97392** |
| Stddev | .00056 | .00042 | .00180 | .00127 | .118 | .0063 | .104 | .00158 | .00113 |
| %RSD | .11044 | .20843 | .72018 | .12962 | .23166 | .62150 | .19871 | .30684 | .11552 |
| #1 | .50382 | .19949 | .24894 | .98135 | 50.822 | 1.0129 | 52.097 | .51264 | .97471 |
| #2 | .50304 | .19890 | .25149 | .97955 | 50.656 | 1.0040 | 52.244 | .51487 | .97312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.314** | **.49683** | **10.348** | **.50387** | **-.00320** | **.50909** | **2.0421** | **9.9257** | **1.9506** |
| Stddev | .224 | .00081 | .007 | .00207 | .00287 | .00191 | .0065 | .0301 | .0071 |
| %RSD | .43599 | .16343 | .07160 | .41152 | 89.609 | .37468 | .31636 | .30352 | .36232 |
| #1 | 51.472 | .49740 | 10.343 | .50533 | -.00117 | .50774 | 2.0375 | 9.9470 | 1.9456 |
| #2 | 51.156 | .49625 | 10.353 | .50240 | -.00522 | .51044 | 2.0467 | 9.9044 | 1.9556 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97656** | **1.0273** | **1.0076** | **1.9450** | **2.0919** | **.50911** | **.52500** | **.48230** |
| Stddev | .00515 | .0047 | .0047 | .0044 | .0315 | .00080 | .00204 | .00023 |
| %RSD | .52690 | .45856 | .46245 | .22583 | 1.5042 | .15657 | .38917 | .04734 |
| #1 | .98020 | 1.0239 | 1.0043 | 1.9419 | 2.1141 | .50854 | .52356 | .48246 |
| #2 | .97292 | 1.0306 | 1.0109 | 1.9481 | 2.0696 | .50967 | .52645 | .48214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6297.5** | **82375.** | **5943.5** |
| Stddev | 5.6 | 72. | 16.7 |
| %RSD | .08858 | .08769 | .28087 |
| #1 | 6293.5 | 82426. | 5931.7 |
| #2 | 6301.4 | 82323. | 5955.3 |

Sample Name: 280-41963-b-1-b Acquired: 5/14/2013 21:57:35 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.02418** | **-.00036** | **.00108** | **.02476** | **-.00001** | **-.00358** | **13.611** | **-.00008** |
| Stddev | .00051 | .00002 | .00014 | .00006 | .00063 | .00005 | .00390 | .011 | .00011 |
| %RSD | 365.70 | .06219 | 38.965 | 5.7424 | 2.5358 | 329.48 | 108.89 | .08293 | 131.22 |
| #1 | .00022 | .02417 | -.00046 | .00104 | .02520 | .00002 | -.00082 | 13.619 | -.00001 |
| #2 | -.00050 | .02419 | -.00026 | .00112 | .02431 | -.00005 | -.00633 | 13.603 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00004** | **.00177** | **.03802** | **.81582** | **.00449** | **1.5989** | **.00129** | **.00268** |
| Stddev | .00001 | .00005 | .00029 | .00055 | .04213 | .00056 | .0037 | .00007 | .00009 |
| %RSD | 4.6453 | 123.67 | 16.415 | 1.4552 | 5.1641 | 12.564 | .22860 | 5.7129 | 3.4759 |
| #1 | .00020 | .00008 | .00157 | .03763 | .84561 | .00489 | 1.5963 | .00134 | .00261 |
| #2 | .00019 | .00001 | .00198 | .03841 | .78603 | .00409 | 1.6015 | .00124 | .00274 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.0062** | **.00040** | **.17523** | **.00048** | **2.5516** | **-.00063** | **.00237** | **4.5473** | **.00002** |
| Stddev | .0472 | .00030 | .00022 | .00048 | .0065 | .00073 | .00307 | .0444 | .00045 |
| %RSD | .78644 | 74.712 | .12678 | 101.61 | .25305 | 115.86 | 129.67 | .97703 | 1884.7 |
| #1 | 6.0396 | .00060 | .17507 | .00082 | 2.5471 | -.00011 | .00020 | 4.5787 | -.00029 |
| #2 | 5.9728 | .00019 | .17538 | .00013 | 2.5562 | -.00115 | .00454 | 4.5158 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12049** | **.00009** | **.00098** | **.00098** | **.00610** | **.00014** | **.00566** | **.00397** |
| Stddev | .00036 | .00092 | .00029 | .00031 | .01207 | .00020 | .00017 | .00044 |
| %RSD | .29784 | 1052.2 | 29.979 | 31.576 | 197.82 | 136.62 | 2.9393 | 11.105 |
| #1 | .12074 | -.00056 | .00118 | .00076 | .01464 | .00000 | .00554 | .00366 |
| #2 | .12024 | .00074 | .00077 | .00120 | -.00243 | .00028 | .00578 | .00428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6544.9** | **85334.** | **6113.6** |
| Stddev | .8 | 187. | 17.6 |
| %RSD | .01198 | .21891 | .28784 |
| #1 | 6545.4 | 85202. | 6126.0 |
| #2 | 6544.3 | 85466. | 6101.1 |

Sample Name: 280-41963-b-1-bSD@5 Acquired: 5/14/2013 22:00:02 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00460** | **.00066** | **-.00592** | **.00520** | **.00001** | **.00050** | **2.7854** | **-.00011** |
| Stddev | .00053 | .00018 | .00179 | .00005 | .00066 | .00004 | .00166 | .0069 | .00003 |
| %RSD | 618.20 | 3.9962 | 270.81 | .77656 | 12.764 | 289.01 | 331.25 | .24709 | 26.966 |
| #1 | .00046 | .00447 | .00193 | -.00596 | .00567 | -.00001 | -.00067 | 2.7903 | -.00013 |
| #2 | -.00029 | .00473 | -.00061 | -.00589 | .00473 | .00004 | .00168 | 2.7806 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **-.00002** | **.00012** | **.01354** | **.10257** | **.00538** | **.32082** | **.00032** | **.00048** |
| Stddev | .00008 | .00023 | .00013 | .00126 | .06888 | .00052 | .00378 | .00004 | .00006 |
| %RSD | 29.904 | 1010.8 | 108.71 | 9.2984 | 67.158 | 9.7338 | 1.1769 | 12.466 | 13.576 |
| #1 | .00031 | -.00018 | .00021 | .01443 | .05386 | .00575 | .32349 | .00029 | .00043 |
| #2 | .00020 | .00014 | .00003 | .01265 | .15128 | .00501 | .31815 | .00034 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3046** | **-.00000** | **.02936** | **-.00002** | **.50695** | **-.00124** | **-.00399** | **.91482** | **-.00081** |
| Stddev | .0036 | .00011 | .00105 | .00002 | .00057 | .00008 | .00078 | .00004 | .00010 |
| %RSD | .27910 | 3086.2 | 3.5666 | 142.86 | .11287 | 6.5838 | 19.638 | .00402 | 12.035 |
| #1 | 1.3020 | -.00008 | .02862 | -.00003 | .50655 | -.00130 | -.00455 | .91479 | -.00074 |
| #2 | 1.3071 | .00007 | .03010 | .00000 | .50736 | -.00118 | -.00344 | .91484 | -.00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02456** | **.00052** | **-.00009** | **-.00082** | **.01815** | **-.00015** | **.00490** | **.00124** |
| Stddev | .00001 | .00139 | .00002 | .00049 | .03184 | .00047 | .00014 | .00051 |
| %RSD | .05672 | 268.09 | 25.594 | 60.258 | 175.46 | 321.10 | 2.8293 | 41.399 |
| #1 | .02455 | -.00047 | -.00011 | -.00117 | .04066 | -.00048 | .00499 | .00161 |
| #2 | .02457 | .00151 | -.00008 | -.00047 | -.00437 | .00019 | .00480 | .00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6540.9** | **84662.** | **5990.4** |
| Stddev | 8.9 | 609. | 34.0 |
| %RSD | .13534 | .71946 | .56696 |
| #1 | 6547.2 | 84231. | 5966.4 |
| #2 | 6534.6 | 85093. | 6014.4 |

Sample Name: 280-41963-b-1-c ms  Acquired: 5/14/2013 22:02:32  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05461** | **1.8371** | **1.0107** | **.99778** | **2.0101** | **.04718** | **2.0316** | **61.444** | **.10292** |
| Stddev | .00026 | .0007 | .0020 | .00257 | .0128 | .00026 | .0058 | .316 | .00015 |
| %RSD | .46921 | .03684 | .20006 | .25783 | .63787 | .55343 | .28607 | .51381 | .14120 |
| #1 | .05443 | 1.8376 | 1.0093 | .99596 | 2.0192 | .04736 | 2.0275 | 61.668 | .10282 |
| #2 | .05479 | 1.8366 | 1.0122 | .99960 | 2.0011 | .04699 | 2.0357 | 61.221 | .10302 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49500** | **.19536** | **.24828** | **.97600** | **50.307** | **.98305** | **52.757** | **.50504** | **.95739** |
| Stddev | .00001 | .00009 | .00046 | .00301 | .348 | .00479 | .036 | .00043 | .00145 |
| %RSD | .00302 | .04418 | .18561 | .30798 | .69179 | .48767 | .06888 | .08503 | .15169 |
| #1 | .49499 | .19529 | .24860 | .97813 | 50.553 | .98644 | 52.783 | .50473 | .95636 |
| #2 | .49501 | .19542 | .24795 | .97388 | 50.061 | .97966 | 52.732 | .50534 | .95842 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.242** | **.48680** | **10.190** | **.49356** | **2.5313** | **.50397** | **2.0049** | **14.224** | **1.9223** |
| Stddev | .708 | .00095 | .010 | .00032 | .0074 | .00033 | .0029 | .022 | .0013 |
| %RSD | 1.2597 | .19610 | .09998 | .06561 | .29257 | .06507 | .14438 | .15369 | .06477 |
| #1 | 56.743 | .48612 | 10.182 | .49379 | 2.5261 | .50421 | 2.0069 | 14.239 | 1.9214 |
| #2 | 55.741 | .48747 | 10.197 | .49333 | 2.5366 | .50374 | 2.0028 | 14.208 | 1.9232 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0670** | **1.0063** | **.99077** | **1.9136** | **2.0173** | **.50019** | **.51920** | **.47414** |
| Stddev | .0076 | .0014 | .00120 | .0008 | .0343 | .00034 | .00192 | .00109 |
| %RSD | .71720 | .13505 | .12136 | .04310 | 1.6985 | .06721 | .36972 | .23006 |
| #1 | 1.0724 | 1.0072 | .98992 | 1.9130 | 2.0415 | .50043 | .51784 | .47337 |
| #2 | 1.0616 | 1.0053 | .99162 | 1.9142 | 1.9931 | .49995 | .52056 | .47491 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6323.3** | **82316.** | **6022.6** |
| Stddev | 14.7 | 273. | 56.9 |
| %RSD | .23258 | .33178 | .94466 |
| #1 | 6312.9 | 82509. | 5982.4 |
| #2 | 6333.7 | 82122. | 6062.8 |

Sample Name: 280-41963-b-1-d msd  Acquired: 5/14/2013 22:04:44  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05698** | **1.9015** | **1.0477** | **1.0247** | **2.0952** | **.04923** | **2.1216** | **63.764** | **.10729** |
| Stddev | .00032 | .0047 | .0021 | .0011 | .0012 | .00000 | .0009 | .016 | .00018 |
| %RSD | .55867 | .24610 | .19993 | .10381 | .05622 | .00848 | .04198 | .02549 | .16978 |
| #1 | .05675 | 1.8982 | 1.0462 | 1.0240 | 2.0944 | .04923 | 2.1209 | 63.753 | .10716 |
| #2 | .05720 | 1.9048 | 1.0492 | 1.0255 | 2.0960 | .04923 | 2.1222 | 63.776 | .10742 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51350** | **.20327** | **.25806** | **1.0137** | **52.322** | **1.0257** | **54.675** | **.52444** | **.97896** |
| Stddev | .00036 | .00054 | .00032 | .0032 | .077 | .0015 | .064 | .00049 | .00109 |
| %RSD | .07013 | .26728 | .12222 | .31567 | .14735 | .14659 | .11722 | .09407 | .11183 |
| #1 | .51325 | .20289 | .25783 | 1.0114 | 52.268 | 1.0267 | 54.720 | .52479 | .97819 |
| #2 | .51376 | .20366 | .25828 | 1.0160 | 52.377 | 1.0246 | 54.630 | .52409 | .97974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **58.444** | **.50552** | **10.597** | **.51237** | **2.5968** | **.51427** | **2.0895** | **14.550** | **1.9637** |
| Stddev | .071 | .00065 | .014 | .00159 | .0062 | .00140 | .0038 | .021 | .0003 |
| %RSD | .12188 | .12910 | .12857 | .31026 | .23939 | .27230 | .18006 | .14166 | .01506 |
| #1 | 58.394 | .50506 | 10.588 | .51125 | 2.5924 | .51328 | 2.0869 | 14.564 | 1.9635 |
| #2 | 58.495 | .50598 | 10.607 | .51350 | 2.6012 | .51526 | 2.0922 | 14.535 | 1.9639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1102** | **1.0464** | **1.0111** | **1.9927** | **2.1439** | **.51967** | **.53707** | **.48343** |
| Stddev | .0015 | .0002 | .0003 | .0034 | .0120 | .00213 | .00095 | .00140 |
| %RSD | .13340 | .02080 | .02919 | .17146 | .55922 | .41013 | .17757 | .29009 |
| #1 | 1.1112 | 1.0466 | 1.0113 | 1.9902 | 2.1354 | .52117 | .53775 | .48442 |
| #2 | 1.1091 | 1.0462 | 1.0109 | 1.9951 | 2.1524 | .51816 | .53640 | .48243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6362.2** | **82666.** | **6022.1** |
| Stddev | 5.9 | 743. | 8.9 |
| %RSD | .09299 | .89864 | .14710 |
| #1 | 6366.3 | 82141. | 6015.8 |
| #2 | 6358.0 | 83191. | 6028.4 |

Sample Name: 280-41963-b-2-b Acquired: 5/14/2013 22:06:56 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00398** | **-.00011** | **.00250** | **.05021** | **-.00001** | **.00041** | **26.288** | **.00007** |
| Stddev | .00031 | .00020 | .00168 | .00021 | .00025 | .00000 | .00099 | .185 | .00009 |
| %RSD | 178.86 | 5.1186 | 1571.0 | 8.2603 | .49076 | 12.917 | 242.70 | .70529 | 138.69 |
| #1 | .00040 | .00384 | -.00130 | .00265 | .05038 | -.00001 | .00111 | 26.157 | .00013 |
| #2 | -.00005 | .00412 | .00108 | .00236 | .05003 | -.00001 | -.00029 | 26.419 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00010** | **.00104** | **.03976** | **1.0969** | **.00633** | **5.4582** | **.00057** | **.00090** |
| Stddev | .00003 | .00008 | .00032 | .00344 | .0592 | .00138 | .0202 | .00004 | .00007 |
| %RSD | 14.402 | 82.362 | 30.433 | 8.6420 | 5.4013 | 21.737 | .37037 | 6.8607 | 7.9252 |
| #1 | .00020 | .00016 | .00082 | .03733 | 1.1388 | .00535 | 5.4725 | .00054 | .00085 |
| #2 | .00025 | .00004 | .00126 | .04219 | 1.0550 | .00730 | 5.4439 | .00060 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.2231** | W **9.8829** | **.00055** | **.17460** | **.00073** | **14.368** | **-.00089** | **-.00033** | **5.4513** |
| Stddev | .0635 | .2274 | .00019 | .00347 | .00039 | .011 | .00002 | .00255 | .0114 |
| %RSD | .68891 | 2.3007 | 34.493 | 1.9850 | 53.564 | .07517 | 2.4239 | 774.01 | .20991 |
| #1 | 9.1782 | 10.044 | .00042 | .17705 | .00046 | 14.376 | -.00091 | -.00213 | 5.4432 |
| #2 | 9.2680 | 9.7221 | .00069 | .17215 | .00101 | 14.361 | -.00088 | .00147 | 5.4594 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | 500.00 | | | | | | | |
| Low Limit | -.50000 | 10.000 | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00043** | **.24653** | **-.00019** | **.00034** | **-.00014** | **.00772** | **.00052** | **.00487** | **.00242** |
| Stddev | .00001 | .00126 | .00313 | .00007 | .00010 | .02000 | .00013 | .00019 | .00055 |
| %RSD | 2.9393 | .51145 | 1668.7 | 21.769 | 71.133 | 259.28 | 24.407 | 3.8079 | 22.584 |
| #1 | -.00043 | .24563 | .00203 | .00039 | -.00007 | -.00643 | .00061 | .00474 | .00203 |
| #2 | -.00044 | .24742 | -.00240 | .00029 | -.00021 | .02186 | .00043 | .00500 | .00280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6525.1** | **85287.** | **6073.6** |
| Stddev | 5.9 | 300. | 15.7 |
| %RSD | .09014 | .35177 | .25846 |
| #1 | 6529.3 | 85075. | 6084.7 |
| #2 | 6520.9 | 85499. | 6062.5 |

Sample Name: 280-41963-b-3-b  Acquired: 5/14/2013 22:09:22  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00769** | **-.00107** | **.13944** | **.29847** | **.00006** | **.00003** | **2.5482** | **-.00012** |
| Stddev | .00020 | .00020 | .00307 | .00116 | .00158 | .00001 | .00087 | .0094 | .00004 |
| %RSD | 362.99 | 2.6067 | 286.16 | .83277 | .53014 | 18.611 | 3322.5 | .37029 | 36.893 |
| #1 | -.00008 | .00783 | -.00324 | .13861 | .29735 | .00007 | -.00059 | 2.5415 | -.00009 |
| #2 | .00019 | .00755 | .00110 | .14026 | .29959 | .00005 | .00064 | 2.5548 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00036** | **.00077** | **.69422** | **1.9374** | **.07088** | **.34909** | **.01427** | **.00104** |
| Stddev | .00012 | .00002 | .00015 | .00386 | .0808 | .00315 | .00261 | .00005 | .00002 |
| %RSD | 20.367 | 5.4430 | 19.336 | .55566 | 4.1699 | 4.4506 | .74880 | .37907 | 2.2440 |
| #1 | .00065 | .00035 | .00087 | .69149 | 1.8803 | .06865 | .35094 | .01431 | .00103 |
| #2 | .00049 | .00038 | .00066 | .69695 | 1.9946 | .07311 | .34725 | .01423 | .00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **377.52** | **.00064** | **.14365** | **.00161** | **.21106** | **-.00205** | **.00060** | **8.6847** | **-.00053** |
| Stddev | 2.45 | .00012 | .00030 | .00000 | .00017 | .00067 | .00112 | .0037 | .00033 |
| %RSD | .65003 | 18.068 | .21100 | .07272 | .07933 | 32.804 | 186.54 | .04253 | 62.463 |
| #1 | 375.79 | .00056 | .14386 | .00161 | .21094 | -.00157 | .00139 | 8.6821 | -.00076 |
| #2 | 379.26 | .00073 | .14343 | .00161 | .21118 | -.00252 | -.00019 | 8.6873 | -.00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35602** | **-.00029** | **.00007** | **.00140** | **.01596** | **-.00052** | **.00301** | **-.00013** |
| Stddev | .00201 | .00132 | .00001 | .00082 | .00098 | .00028 | .00045 | .00121 |
| %RSD | .56477 | 447.48 | 14.321 | 58.183 | 6.1311 | 53.761 | 14.923 | 943.15 |
| #1 | .35460 | .00064 | .00006 | .00083 | .01665 | -.00032 | .00333 | -.00099 |
| #2 | .35745 | -.00123 | .00008 | .00198 | .01526 | -.00072 | .00269 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6224.9** | **81184.** | **5956.4** |
| Stddev | 4.5 | 34. | 99.4 |
| %RSD | .07231 | .04233 | 1.6681 |
| #1 | 6221.8 | 81159. | 6026.6 |
| #2 | 6228.1 | 81208. | 5886.1 |

Sample Name: 280-41963-b-4-b  Acquired: 5/14/2013 22:11:54  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **.00137** | **.00173** | **.00400** | **.06937** | **.00001** | **-.00066** | **84.812** | **-.00009** |
| Stddev | .00112 | .00028 | .00045 | .00050 | .00048 | .00000 | .00009 | .138 | .00004 |
| %RSD | 420.31 | 20.277 | 25.870 | 12.581 | .68528 | 34.405 | 13.246 | .16226 | 41.277 |
| #1 | .00052 | .00156 | .00204 | .00436 | .06970 | .00001 | -.00072 | 84.909 | -.00007 |
| #2 | -.00106 | .00117 | .00141 | .00365 | .06903 | .00001 | -.00059 | 84.714 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00028** | **.00070** | **.01730** | **1.7685** | **.00559** | **21.883** | **.00073** | **-.00015** |
| Stddev | .00004 | .00016 | .00017 | .00111 | .0051 | .00115 | .029 | .00004 | .00019 |
| %RSD | 10.967 | 56.139 | 24.065 | 6.4364 | .28791 | 20.530 | .13067 | 5.1953 | 125.64 |
| #1 | .00043 | .00017 | .00082 | .01652 | 1.7649 | .00477 | 21.903 | .00070 | -.00002 |
| #2 | .00036 | .00039 | .00058 | .01809 | 1.7721 | .00640 | 21.863 | .00076 | -.00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.669** | **.00042** | **.18990** | **-.00073** | **34.392** | **-.00127** | **-.00187** | **3.4492** | **-.00061** |
| Stddev | .505 | .00041 | .00055 | .00068 | .054 | .00361 | .00293 | .0036 | .00035 |
| %RSD | .92423 | 98.922 | .28943 | 93.430 | .15654 | 284.78 | 156.40 | .10543 | 57.440 |
| #1 | 55.026 | .00071 | .18951 | -.00121 | 34.354 | .00129 | -.00394 | 3.4518 | -.00036 |
| #2 | 54.312 | .00013 | .19029 | -.00025 | 34.430 | -.00382 | .00020 | 3.4466 | -.00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3660** | **.00101** | **.00053** | **-.00013** | **.00358** | **.00028** | **.00364** | **.00126** |
| Stddev | .0051 | .00016 | .00030 | .00047 | .01486 | .00029 | .00026 | .00084 |
| %RSD | .37505 | 15.618 | 56.825 | 358.67 | 415.46 | 104.34 | 7.2640 | 66.859 |
| #1 | 1.3696 | .00112 | .00075 | -.00046 | .01408 | .00007 | .00383 | .00066 |
| #2 | 1.3624 | .00090 | .00032 | .00020 | -.00693 | .00048 | .00346 | .00186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6262.4** | **82527.** | **5961.2** |
| Stddev | 20.1 | 364. | 14.3 |
| %RSD | .32170 | .44088 | .24008 |
| #1 | 6248.1 | 82270. | 5951.1 |
| #2 | 6276.6 | 82785. | 5971.3 |

Sample Name: 280-41963-b-5-b Acquired: 5/14/2013 22:14:20 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.00110** | **-.00047** | **.01198** | **.06930** | **-.00002** | **-.00262** | **86.492** | **.00010** |
| Stddev | .00031 | .00017 | .00356 | .00015 | .00015 | .00001 | .00093 | .518 | .00013 |
| %RSD | 219.80 | 15.049 | 758.62 | 1.2204 | .21708 | 78.598 | 35.538 | .59944 | 130.31 |
| #1 | -.00036 | .00099 | .00205 | .01208 | .06919 | -.00001 | -.00196 | 86.858 | .00001 |
| #2 | .00008 | .00122 | -.00299 | .01187 | .06941 | -.00003 | -.00328 | 86.125 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00005** | **.00075** | **.01298** | **1.3300** | **.00566** | **21.434** | **.43440** | **.00035** |
| Stddev | .00018 | .00005 | .00030 | .00179 | .0038 | .00036 | .024 | .00004 | .00018 |
| %RSD | 28.433 | 107.01 | 40.084 | 13.760 | .28700 | 6.3664 | .11279 | .01004 | 53.016 |
| #1 | .00051 | .00008 | .00054 | .01425 | 1.3327 | .00592 | 21.452 | .43437 | .00022 |
| #2 | .00077 | .00001 | .00096 | .01172 | 1.3273 | .00541 | 21.417 | .43443 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.305** | **.00055** | **.16260** | **.00168** | **19.267** | **-.00117** | **-.00388** | **5.0443** | **-.00055** |
| Stddev | .581 | .00030 | .00317 | .00262 | .005 | .00061 | .00227 | .0124 | .00047 |
| %RSD | 1.0693 | 54.109 | 1.9484 | 155.88 | .02652 | 52.067 | 58.596 | .24592 | 84.075 |
| #1 | 53.894 | .00076 | .16484 | .00353 | 19.271 | -.00074 | -.00548 | 5.0530 | -.00022 |
| #2 | 54.715 | .00034 | .16036 | -.00017 | 19.264 | -.00160 | -.00227 | 5.0355 | -.00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1518** | **-.00032** | **.00028** | **-.00034** | **-.00188** | **.00019** | **.00317** | **.00090** |
| Stddev | .0094 | .00195 | .00005 | .00071 | .01231 | .00035 | .00014 | .00118 |
| %RSD | .81153 | 600.45 | 17.457 | 210.90 | 653.77 | 181.71 | 4.4568 | 130.99 |
| #1 | 1.1584 | -.00170 | .00024 | .00016 | -.01059 | -.00005 | .00327 | .00007 |
| #2 | 1.1452 | .00105 | .00031 | -.00084 | .00682 | .00044 | .00307 | .00173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6294.1** | **82145.** | **5906.6** |
| Stddev | 8.9 | 4. | 21.2 |
| %RSD | .14063 | .00490 | .35843 |
| #1 | 6300.4 | 82148. | 5891.6 |
| #2 | 6287.9 | 82143. | 5921.6 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 22:16:46 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00819** | **50.239** | **-.00001** | **-.00572** | **.00082** | **-.00005** | **1.0222** | **.00042** | **-.00081** | **.00237** | **-.00002** | **.00088** | **51.078** |
| Stddev | .00050 | .110 | .00311 | .00011 | .00027 | .00015 | .0018 | .00117 | .00009 | .00018 | .00007 | .00051 | .186 |
| %RSD | 6.0588 | .21974 | 48979. | 1.9526 | 32.384 | 325.09 | .17215 | 279.10 | 10.848 | 7.4290 | 281.49 | 58.617 | .36489 |
| #1 | .00854 | 50.161 | .00220 | -.00580 | .00063 | -.00016 | 1.0234 | .00124 | -.00075 | .00249 | .00002 | .00051 | 50.947 |
| #2 | .00784 | 50.317 | -.00221 | -.00564 | .00101 | .00006 | 1.0209 | -.00041 | -.00088 | .00224 | -.00007 | .00124 | 51.210 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01200** | **.00232** | **-.01418** | **-.00066** | **-.00194** | **257.13** | **.00126** | **.00094** | **-.00015** | **5.2113** | **-.00194** | **.00160** | **.01733** |
| Stddev | .01970 | .00319 | .00343 | .00001 | .00000 | .18 | .00004 | .00191 | .00183 | .0136 | .00026 | .00178 | .00170 |
| %RSD | 164.17 | 137.01 | 24.202 | 1.1950 | .13464 | .06853 | 3.4343 | 203.41 | 1195.4 | .26167 | 13.448 | 111.51 | 9.7866 |
| #1 | -.00193 | .00007 | -.01176 | -.00065 | -.00194 | 257.00 | .00129 | -.00041 | -.00145 | 5.2210 | -.00176 | .00034 | .01853 |
| #2 | .02593 | .00458 | -.01661 | -.00066 | -.00194 | 257.25 | .00123 | .00229 | .00114 | 5.2017 | -.00212 | .00286 | .01613 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00025** | **5.1788** | **.00249** | **-.00187** | **10.143** | **-.00052** | **.00320** | **-.04013** |
| Stddev | .00017 | .00003 | .0121 | .00037 | .00036 | .018 | .00018 | .00026 | .00020 |
| %RSD | 29.689 | 11.850 | .23380 | 14.990 | 19.174 | .18243 | 33.927 | 8.2410 | .50519 |
| #1 | .00069 | .00027 | 5.1702 | .00275 | -.00161 | 10.156 | -.00065 | .00339 | -.04027 |
| #2 | .00045 | .00023 | 5.1873 | .00223 | -.00212 | 10.130 | -.00040 | .00302 | -.03998 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6266.3** | **80908.** | **5847.8** |
| Stddev | 11.9 | 412. | 2.8 |
| %RSD | .19048 | .50889 | .04727 |
| #1 | 6274.7 | 80617. | 5849.8 |
| #2 | 6257.8 | 81199. | 5845.9 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 22:19:11 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52670** | **.49703** | **1.0193** | **.49629** | **.50569** | **.48277** | **.00094** | **5.0410** | **.51053** | **.51471** | **.50045** | **.50443** | **2.4712** | **50.552** |
| Stddev | .00040 | .00103 | .0020 | .00088 | .00078 | .00024 | .00115 | .0101 | .00104 | .00018 | .00043 | .00065 | .0053 | .168 |
| %RSD | .07541 | .20684 | .19737 | .17741 | .15389 | .05013 | 122.55 | .20141 | .20453 | .03426 | .08498 | .12788 | .21590 | .33321 |
| #1 | .52642 | .49776 | 1.0179 | .49567 | .50624 | .48294 | .00176 | 5.0338 | .51126 | .51483 | .50015 | .50397 | 2.4674 | 50.671 |
| #2 | .52698 | .49630 | 1.0207 | .49692 | .50514 | .48260 | .00013 | 5.0481 | .50979 | .51458 | .50075 | .50488 | 2.4750 | 50.433 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0121** | **21.070** | **.52305** | **.49313** | **5.0238** | **.50900** | **.98671** | **1.0196** | **.00094** | **1.0143** | **1.0072** | **4.9314** | **.99449** | **.48962** |
| Stddev | .0010 | .008 | .00103 | .00054 | .0520 | .00128 | .00507 | .0019 | .00267 | .0027 | .0110 | .0083 | .00290 | .00133 |
| %RSD | .10064 | .03669 | .19735 | .11015 | 1.0348 | .25102 | .51350 | .18205 | 284.88 | .26642 | 1.0954 | .16755 | .29195 | .27118 |
| #1 | 1.0128 | 21.065 | .52232 | .49275 | 5.0606 | .50810 | .99030 | 1.0183 | .00282 | 1.0124 | .99941 | 4.9255 | .99244 | .49056 |
| #2 | 1.0114 | 21.076 | .52378 | .49352 | 4.9870 | .50991 | .98313 | 1.0209 | -.00095 | 1.0162 | 1.0150 | 4.9372 | .99655 | .48869 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.51139** | **.98701** | **.02211** | **.50913** | **.53599** | **.49720** |
| Stddev | .00193 | .00092 | .00035 | .01434 | .00051 | .00039 | .00359 |
| %RSD | 102.43 | .17980 | .03552 | 64.858 | .09966 | .07247 | .72163 |
| #1 | .00052 | .51074 | .98676 | .03225 | .50877 | .53626 | .49466 |
| #2 | .00324 | .51204 | .98726 | .01197 | .50949 | .53571 | .49973 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6358.9** | **82780.** | **5920.9** |
| Stddev | 1.1 | 190. | 20.3 |
| %RSD | .01744 | .22966 | .34311 |
| #1 | 6358.1 | 82646. | 5906.6 |
| #2 | 6359.7 | 82915. | 5935.3 |

Sample Name: CCB Acquired: 5/14/2013 22:21:25 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **-.00059** | **.00043** | F **-.00706** | **.00043** | **.00009** | **-.00089** | **-.00575** | **.00005** | **.00025** | **-.00000** |
| Stddev | .00019 | .00006 | .00358 | .00053 | .00011 | .00001 | .00215 | .00022 | .00004 | .00001 | .00002 |
| %RSD | 963.76 | 10.741 | 831.78 | 7.4538 | 24.882 | 7.4001 | 241.05 | 3.8884 | 94.593 | 3.4131 | 514.81 |
| #1 | .00015 | -.00055 | -.00210 | -.00668 | .00036 | .00008 | .00063 | -.00559 | .00002 | .00024 | .00001 |
| #2 | -.00012 | -.00064 | .00296 | -.00743 | .00051 | .00009 | -.00241 | -.00590 | .00008 | .00026 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00061** | **-.06254** | W **.00385** | **-.00196** | **.00005** | **-.00010** | **.07505** | **-.00010** | **-.00903** | **.00045** |
| Stddev | .00035 | .00064 | .06243 | .00153 | .00056 | .00000 | .00010 | .00351 | .00019 | .00112 | .00016 |
| %RSD | 357.61 | 105.37 | 99.818 | 39.827 | 28.547 | 7.9972 | 106.29 | 4.6774 | 196.81 | 12.349 | 34.787 |
| #1 | .00035 | .00106 | -.10668 | .00277 | -.00156 | .00005 | -.00017 | .07256 | .00004 | -.00824 | .00034 |
| #2 | -.00015 | .00015 | -.01840 | .00494 | -.00235 | .00004 | -.00002 | .07753 | -.00023 | -.00982 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **-.00185** | **-.00095** | **.00076** | **-.00033** | **.00002** | **.00073** | **-.00019** | **-.00052** | **.02068** | **-.00024** |
| Stddev | .00208 | .00006 | .00322 | .01838 | .00015 | .00009 | .00177 | .00002 | .00109 | .02732 | .00024 |
| %RSD | 13706. | 3.2274 | 340.32 | 2425.3 | 44.505 | 389.44 | 242.57 | 12.776 | 208.71 | 132.08 | 98.089 |
| #1 | .00146 | -.00180 | -.00323 | -.01224 | -.00023 | -.00004 | -.00052 | -.00021 | .00025 | .04000 | -.00041 |
| #2 | -.00149 | -.00189 | .00133 | .01375 | -.00043 | .00008 | .00198 | -.00017 | -.00129 | .00137 | -.00007 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00269** | **.00174** |
| Stddev | .00029 | .00097 |
| %RSD | 10.793 | 55.706 |
| #1 | .00248 | .00242 |
| #2 | .00289 | .00105 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6437.1** | **84193.** | **5926.7** |
| Stddev | 4.2 | 60. | 16.3 |
| %RSD | .06528 | .07144 | .27493 |
| #1 | 6440.0 | 84150. | 5938.2 |
| #2 | 6434.1 | 84236. | 5915.2 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 22:23:53 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01081** | **.09773** | **.01348** | **.08969** | **.01089** | **.00093** | **.10501** | **.19447** | **.00520** | **.01080** | **.01012** |
| Stddev | .00036 | .00006 | .00054 | .00004 | .00013 | .00003 | .00068 | .00090 | .00001 | .00003 | .00022 |
| %RSD | 3.3469 | .05642 | 4.0108 | .03938 | 1.2004 | 2.7779 | .64822 | .46091 | .12156 | .27042 | 2.1355 |
| #1 | .01106 | .09777 | .01310 | .08966 | .01080 | .00091 | .10453 | .19383 | .00520 | .01082 | .01027 |
| #2 | .01055 | .09769 | .01386 | .08971 | .01098 | .00095 | .10549 | .19510 | .00521 | .01078 | .00997 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01476** | **.09840** | **3.0720** | **.01195** | **.21611** | **.01059** | **.01935** | **1.0735** | **.04130** | **2.9025** | **.01012** |
| Stddev | .00032 | .00216 | .0007 | .00080 | .00120 | .00016 | .00015 | .0036 | .00020 | .0046 | .00197 |
| %RSD | 2.1518 | 2.1969 | .02277 | 6.6828 | .55374 | 1.5332 | .79387 | .33049 | .48192 | .16013 | 19.454 |
| #1 | .01453 | .09687 | 3.0725 | .01139 | .21527 | .01047 | .01946 | 1.0760 | .04144 | 2.8992 | .00873 |
| #2 | .01498 | .09993 | 3.0715 | .01252 | .21696 | .01070 | .01924 | 1.0710 | .04116 | 2.9057 | .01151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00917** | **.01246** | **.50264** | **.10015** | **.00994** | **.01619** | **.01026** | **.01412** | F **.08101** | **.00972** |
| Stddev | .00094 | .00093 | .00108 | .00131 | .00048 | .00006 | .00215 | .00033 | .00055 | .00461 | .00060 |
| %RSD | 130.79 | 10.176 | 8.6817 | .26033 | .47909 | .65201 | 13.300 | 3.2480 | 3.8663 | 5.6961 | 6.1995 |
| #1 | .00138 | .00983 | .01170 | .50171 | .09981 | .00998 | .01771 | .01002 | .01451 | .07774 | .01015 |
| #2 | .00005 | .00851 | .01323 | .50356 | .10049 | .00989 | .01467 | .01049 | .01374 | .08427 | .00930 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02453** | **.01458** |
| Stddev | .00061 | .00256 |
| %RSD | 2.4678 | 17.578 |
| #1 | .02410 | .01276 |
| #2 | .02496 | .01639 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6448.7** | **84237.** | **6036.9** |
| Stddev | 13.5 | 394. | 27.7 |
| %RSD | .20862 | .46823 | .45842 |
| #1 | 6458.2 | 84516. | 6056.4 |
| #2 | 6439.2 | 83958. | 6017.3 |

Sample Name: 280-42044-a-1-b Acquired: 5/14/2013 22:26:18 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.00444** | **-.00113** | **.09718** | **.59654** | **.00002** | **-.00054** | **3.1595** | **.00000** |
| Stddev | .00068 | .00039 | .00187 | .00084 | .00227 | .00001 | .00018 | .0040 | .00018 |
| %RSD | 150.17 | 8.8860 | 166.28 | .86333 | .38085 | 42.863 | 32.619 | .12712 | 18230. |
| #1 | .00003 | .00472 | -.00245 | .09777 | .59815 | .00001 | -.00042 | 3.1623 | -.00013 |
| #2 | -.00094 | .00416 | .00020 | .09658 | .59494 | .00003 | -.00067 | 3.1566 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **.00045** | **.00024** | **.09030** | **2.8397** | **.07175** | **.82107** | **.01790** | **.00078** |
| Stddev | .00026 | .00003 | .00041 | .00014 | .0030 | .00213 | .00120 | .00001 | .00019 |
| %RSD | 42.642 | 7.3388 | 171.02 | .15693 | .10641 | 2.9676 | .14611 | .06099 | 24.859 |
| #1 | .00079 | .00042 | .00053 | .09040 | 2.8419 | .07024 | .82023 | .01789 | .00091 |
| #2 | .00043 | .00047 | -.00005 | .09020 | 2.8376 | .07325 | .82192 | .01791 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **514.21** | **.00030** | **.12271** | **.00162** | **.17226** | **-.00133** | **-.00161** | **7.5827** | **-.00052** |
| Stddev | 2.00 | .00016 | .00300 | .00032 | .00273 | .00000 | .00344 | .0146 | .00039 |
| %RSD | .38928 | 51.390 | 2.4453 | 20.079 | 1.5865 | .19651 | 213.60 | .19212 | 75.997 |
| #1 | 515.62 | .00019 | .12483 | .00139 | .17419 | -.00133 | -.00405 | 7.5930 | -.00024 |
| #2 | 512.79 | .00041 | .12059 | .00184 | .17033 | -.00132 | .00082 | 7.5724 | -.00079 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42609** | **-.00032** | **.00031** | **.00024** | **.02159** | **.00004** | **.00465** | **-.00002** |
| Stddev | .00259 | .00253 | .00023 | .00251 | .02421 | .00026 | .00017 | .00115 |
| %RSD | .60754 | 780.78 | 75.189 | 1050.8 | 112.14 | 625.55 | 3.7002 | 7038.4 |
| #1 | .42792 | .00147 | .00014 | -.00153 | .00447 | .00023 | .00453 | -.00083 |
| #2 | .42426 | -.00211 | .00047 | .00201 | .03871 | -.00014 | .00478 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6145.4** | **78925.** | **5841.4** |
| Stddev | 9.6 | 141. | 4.1 |
| %RSD | .15601 | .17912 | .06997 |
| #1 | 6138.6 | 79025. | 5844.3 |
| #2 | 6152.2 | 78825. | 5838.5 |

Sample Name: 280-42044-a-2-b  Acquired: 5/14/2013 22:29:24  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.00280** | **.00115** | **.05495** | **.52135** | **.00004** | **-.00093** | **2.3751** | **-.00020** |
| Stddev | .00032 | .00013 | .00088 | .00034 | .00012 | .00000 | .00175 | .0108 | .00008 |
| %RSD | 345.72 | 4.5086 | 76.458 | .61301 | .02394 | .82805 | 188.34 | .45290 | 37.681 |
| #1 | .00013 | .00288 | .00177 | .05471 | .52126 | .00004 | .00031 | 2.3675 | -.00015 |
| #2 | -.00032 | .00271 | .00053 | .05519 | .52144 | .00004 | -.00216 | 2.3827 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00026** | **.00046** | **.04558** | **2.7150** | **.06163** | **.71264** | **.02156** | **.00109** |
| Stddev | .00019 | .00004 | .00005 | .00002 | .0056 | .00169 | .00578 | .00006 | .00015 |
| %RSD | 36.984 | 16.503 | 9.8556 | .03717 | .20693 | 2.7367 | .81117 | .28959 | 13.451 |
| #1 | .00038 | .00029 | .00049 | .04557 | 2.7189 | .06282 | .71672 | .02161 | .00119 |
| #2 | .00065 | .00023 | .00043 | .04559 | 2.7110 | .06044 | .70855 | .02152 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **493.83** | **.00112** | **.10323** | **.00063** | **1.8680** | **-.00133** | **-.00274** | **6.4149** | **-.00011** |
| Stddev | .05 | .00027 | .00019 | .00002 | .0159 | .00172 | .00049 | .0687 | .00088 |
| %RSD | .00926 | 23.804 | .18858 | 2.6480 | .85284 | 128.80 | 17.977 | 1.0711 | 775.00 |
| #1 | 493.80 | .00131 | .10309 | .00064 | 1.8567 | -.00254 | -.00309 | 6.3663 | -.00073 |
| #2 | 493.87 | .00093 | .10336 | .00062 | 1.8793 | -.00012 | -.00239 | 6.4635 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35214** | **-.00159** | **-.00030** | **.00006** | **.05046** | **-.00001** | **.00401** | **.00092** |
| Stddev | .00009 | .00155 | .00020 | .00084 | .02475 | .00008 | .00012 | .00104 |
| %RSD | .02515 | 97.196 | 65.114 | 1434.1 | 49.050 | 1477.6 | 2.9342 | 112.86 |
| #1 | .35220 | -.00050 | -.00016 | .00065 | .03296 | -.00006 | .00393 | .00019 |
| #2 | .35208 | -.00269 | -.00044 | -.00053 | .06796 | .00005 | .00410 | .00166 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6215.9** | **81325.** | **5908.7** |
| Stddev | 41.9 | 193. | 1.1 |
| %RSD | .67476 | .23784 | .01853 |
| #1 | 6245.6 | 81188. | 5909.5 |
| #2 | 6186.3 | 81462. | 5907.9 |

Sample Name: 280-42044-a-3-b  Acquired: 5/14/2013 22:31:56  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **.00499** | **-.00066** | **.10045** | **.49086** | **-.00009** | **.00142** | **3.1158** | **-.00017** |
| Stddev | .00012 | .00039 | .00204 | .00002 | .00395 | .00007 | .00057 | .0060 | .00005 |
| %RSD | 42.045 | 7.7158 | 308.22 | .02099 | .80563 | 82.255 | 40.232 | .19197 | 29.065 |
| #1 | -.00036 | .00526 | -.00211 | .10044 | .49366 | -.00004 | .00182 | 3.1200 | -.00020 |
| #2 | -.00019 | .00472 | .00078 | .10047 | .48807 | -.00013 | .00101 | 3.1116 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00048** | **.00054** | **.26289** | **2.7693** | **.07418** | **.73738** | **.01377** | **.00117** |
| Stddev | .00008 | .00004 | .00031 | .00365 | .0081 | .00168 | .00317 | .00018 | .00039 |
| %RSD | 14.289 | 7.8598 | 57.761 | 1.3894 | .29266 | 2.2619 | .42968 | 1.2736 | 33.662 |
| #1 | .00051 | .00046 | .00076 | .26031 | 2.7636 | .07300 | .73514 | .01365 | .00089 |
| #2 | .00062 | .00051 | .00032 | .26548 | 2.7750 | .07537 | .73962 | .01389 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **505.47** | **.00075** | **.14263** | **-.00105** | **.26824** | **-.00164** | **-.00269** | **7.9575** | **-.00042** |
| Stddev | 3.45 | .00006 | .00049 | .00024 | .00022 | .00036 | .00108 | .0073 | .00060 |
| %RSD | .68258 | 8.0607 | .34148 | 22.953 | .08118 | 21.864 | 40.171 | .09154 | 142.37 |
| #1 | 507.91 | .00071 | .14228 | -.00088 | .26839 | -.00138 | -.00193 | 7.9524 | -.00085 |
| #2 | 503.03 | .00079 | .14297 | -.00122 | .26809 | -.00189 | -.00346 | 7.9627 | .00000 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44720** | **-.00280** | **-.00005** | **.00053** | **.05547** | **.00020** | **.00420** | **-.00161** |
| Stddev | .00349 | .00004 | .00020 | .00005 | .01149 | .00001 | .00055 | .00216 |
| %RSD | .77945 | 1.5788 | 398.84 | 9.8875 | 20.721 | 3.5053 | 13.169 | 134.04 |
| #1 | .44966 | -.00283 | -.00019 | .00049 | .04734 | .00021 | .00459 | -.00008 |
| #2 | .44473 | -.00277 | .00009 | .00057 | .06360 | .00020 | .00381 | -.00314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6136.5** | **79639.** | **5901.9** |
| Stddev | 14.9 | 432. | 44.3 |
| %RSD | .24265 | .54229 | .75041 |
| #1 | 6147.1 | 79944. | 5870.6 |
| #2 | 6126.0 | 79333. | 5933.2 |

Sample Name: 280-42092-b-1-b Acquired: 5/14/2013 22:35:01 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00537** | **-.00004** | **.02026** | **.39071** | **-.00003** | **-.00284** | **5.0063** | **-.00013** |
| Stddev | .00026 | .00015 | .00147 | .00042 | .00185 | .00004 | .00039 | .0136 | .00012 |
| %RSD | 225.44 | 2.8806 | 3374.8 | 2.0901 | .47309 | 141.71 | 13.841 | .27098 | 92.265 |
| #1 | .00007 | .00548 | .00100 | .01996 | .38941 | -.00005 | -.00256 | 4.9967 | -.00021 |
| #2 | -.00030 | .00526 | -.00109 | .02056 | .39202 | .00000 | -.00311 | 5.0159 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00031** | **.00069** | **.27417** | **1.2223** | **.01435** | **.98948** | **.00791** | **.00028** |
| Stddev | .00036 | .00003 | .00060 | .00499 | .0078 | .00099 | .00096 | .00003 | .00016 |
| %RSD | 121.74 | 10.154 | 86.973 | 1.8217 | .64047 | 6.9048 | .09670 | .33388 | 59.765 |
| #1 | .00055 | .00034 | .00027 | .27771 | 1.2279 | .01365 | .99016 | .00792 | .00016 |
| #2 | .00004 | .00029 | .00112 | .27064 | 1.2168 | .01505 | .98881 | .00789 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **181.58** | **.00083** | **.17886** | **.00008** | **.17506** | **-.00115** | **-.00268** | **6.7181** | **-.00040** |
| Stddev | .72 | .00018 | .00195 | .00035 | .00131 | .00051 | .00490 | .0467 | .00011 |
| %RSD | .39432 | 22.118 | 1.0891 | 416.19 | .75016 | 44.852 | 183.21 | .69518 | 26.836 |
| #1 | 181.07 | .00070 | .18024 | .00033 | .17413 | -.00078 | .00079 | 6.6850 | -.00048 |
| #2 | 182.08 | .00096 | .17748 | -.00016 | .17599 | -.00151 | -.00614 | 6.7511 | -.00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30036** | **.00047** | **-.00015** | **.00046** | **.01547** | **.00004** | **.00324** | **.00249** |
| Stddev | .00072 | .00077 | .00021 | .00075 | .02602 | .00023 | .00002 | .00013 |
| %RSD | .23868 | 163.29 | 138.53 | 161.28 | 168.18 | 572.54 | .73106 | 5.0324 |
| #1 | .29986 | -.00007 | -.00000 | -.00007 | -.00293 | -.00012 | .00322 | .00240 |
| #2 | .30087 | .00102 | -.00030 | .00099 | .03387 | .00021 | .00325 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6174.0** | **79749.** | **5733.3** |
| Stddev | .4 | 415. | 38.9 |
| %RSD | .00662 | .51986 | .67857 |
| #1 | 6174.3 | 79455. | 5760.8 |
| #2 | 6173.7 | 80042. | 5705.8 |

Sample Name: 280-42026-d-9-b Acquired: 5/14/2013 22:37:29 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **.00515** | **-.00157** | **.22426** | **.03334** | **-.00012** | **.00116** | **63.904** | **.00019** |
| Stddev | .00009 | .00023 | .00148 | .00067 | .00038 | .00003 | .00114 | .064 | .00023 |
| %RSD | 28.259 | 4.5313 | 93.706 | .30023 | 1.1428 | 23.900 | 98.294 | .09968 | 125.93 |
| #1 | -.00039 | .00498 | -.00053 | .22474 | .03361 | -.00014 | .00197 | 63.949 | .00035 |
| #2 | -.00026 | .00531 | -.00262 | .22379 | .03307 | -.00010 | .00036 | 63.859 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **.00055** | **.01085** | **.03927** | **15.471** | **.04294** | **13.878** | **.01187** | **.00335** |
| Stddev | .00005 | .00006 | .00030 | .00061 | .020 | .00109 | .008 | .00010 | .00003 |
| %RSD | 4.6656 | 10.927 | 2.7350 | 1.5453 | .12857 | 2.5335 | .05436 | .83082 | .81761 |
| #1 | .00100 | .00051 | .01064 | .03884 | 15.485 | .04217 | 13.873 | .01180 | .00333 |
| #2 | .00107 | .00059 | .01106 | .03970 | 15.456 | .04371 | 13.883 | .01194 | .00337 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **128.13** | **.00254** | **.78643** | **-.00018** | **40.811** | **-.00027** | **.00193** | **3.9378** | **.00006** |
| Stddev | .49 | .00036 | .00440 | .00035 | .287 | .00021 | .00275 | .0119 | .00024 |
| %RSD | .38419 | 14.332 | .55986 | 195.67 | .70278 | 78.939 | 142.08 | .30210 | 443.74 |
| #1 | 127.78 | .00229 | .78955 | .00007 | 41.013 | -.00042 | .00388 | 3.9462 | .00023 |
| #2 | 128.48 | .00280 | .78332 | -.00043 | 40.608 | -.00012 | -.00001 | 3.9294 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.63887** | **.00047** | **.00010** | **.00131** | **.00915** | **.00209** | **.05261** | **.00105** |
| Stddev | .00089 | .00245 | .00042 | .00010 | .00337 | .00029 | .00018 | .00253 |
| %RSD | .13910 | 520.42 | 415.88 | 7.5867 | 36.871 | 13.682 | .33325 | 240.64 |
| #1 | .63950 | .00221 | -.00020 | .00138 | .01153 | .00189 | .05248 | .00284 |
| #2 | .63825 | -.00126 | .00040 | .00124 | .00676 | .00230 | .05273 | -.00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6251.9** | **80466.** | **5874.5** |
| Stddev | 21.1 | 60. | 17.0 |
| %RSD | .33676 | .07401 | .28919 |
| #1 | 6237.0 | 80508. | 5862.5 |
| #2 | 6266.8 | 80424. | 5886.5 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 22:43:11 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52718** | **.49163** | **1.0144** | **.49275** | **.50460** | **.48381** | **.00138** | **5.0372** | **.50618** | **.50963** | **.49376** | **.50318** | **2.4658** |
| Stddev | .00077 | .00020 | .0030 | .00089 | .00056 | .00027 | .00430 | .0096 | .00072 | .00067 | .00097 | .00045 | .0046 |
| %RSD | .14682 | .04084 | .29550 | .18020 | .11071 | .05538 | 311.05 | .18983 | .14275 | .13149 | .19604 | .08931 | .18853 |
| #1 | .52773 | .49178 | 1.0123 | .49212 | .50421 | .48400 | .00442 | 5.0305 | .50567 | .50916 | .49308 | .50286 | 2.4691 |
| #2 | .52663 | .49149 | 1.0165 | .49338 | .50500 | .48362 | -.00166 | 5.0440 | .50669 | .51011 | .49445 | .50350 | 2.4625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.654** | **1.0176** | **21.113** | **.52178** | **.48778** | **5.1087** | **.50499** | **.98864** | **1.0141** | **-.00107** | **1.0133** | **1.0035** | **4.9216** |
| Stddev | .010 | .0047 | .003 | .00043 | .00183 | .0129 | .00183 | .00272 | .0024 | .00495 | .0004 | .0005 | .0264 |
| %RSD | .01967 | .45945 | .01654 | .08279 | .37419 | .25294 | .36194 | .27495 | .23449 | 463.10 | .04020 | .04562 | .53726 |
| #1 | 50.661 | 1.0143 | 21.116 | .52147 | .48649 | 5.0996 | .50370 | .98672 | 1.0124 | .00243 | 1.0130 | 1.0038 | 4.9029 |
| #2 | 50.647 | 1.0209 | 21.111 | .52208 | .48907 | 5.1179 | .50628 | .99056 | 1.0158 | -.00457 | 1.0136 | 1.0032 | 4.9403 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98395** | **.48775** | **.00308** | **.50841** | **.97655** | **.04140** | **.50683** | **.53821** | **.49762** |
| Stddev | .00527 | .00047 | .00072 | .00120 | .00330 | .01142 | .00019 | .00016 | .00017 |
| %RSD | .53511 | .09634 | 23.255 | .23662 | .33828 | 27.592 | .03843 | .02951 | .03403 |
| #1 | .98023 | .48809 | .00257 | .50755 | .97422 | .03332 | .50697 | .53810 | .49774 |
| #2 | .98767 | .48742 | .00359 | .50926 | .97889 | .04947 | .50669 | .53832 | .49750 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6287.2** | **81004.** | **5811.8** |
| Stddev | 51.7 | 67. | .7 |
| %RSD | .82213 | .08217 | .01232 |
| #1 | 6323.8 | 80957. | 5811.3 |
| #2 | 6250.7 | 81051. | 5812.3 |

Sample Name: CCB Acquired: 5/14/2013 22:45:25 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **-.00057** | **.00048** | F **-.00731** | W **.00089** | **.00012** | **-.00085** | **-.00512** | **-.00015** | **.00027** | **.00010** |
| Stddev | .00049 | .00036 | .00141 | .00038 | .00001 | .00009 | .00278 | .00365 | .00006 | .00000 | .00013 |
| %RSD | 433.48 | 63.179 | 295.29 | 5.2128 | .95643 | 78.841 | 325.61 | 71.162 | 42.215 | .82828 | 125.58 |
| #1 | -.00046 | -.00032 | .00148 | -.00704 | .00090 | .00005 | .00111 | -.00255 | -.00020 | .00026 | .00001 |
| #2 | .00023 | -.00083 | -.00052 | -.00758 | .00089 | .00018 | -.00282 | -.00770 | -.00011 | .00027 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.01105** | **-.03193** | W **.00298** | **.00151** | **.00019** | **-.00001** | F **.13504** | **.00034** | F **-.01005** | **-.00072** |
| Stddev | .00012 | .00112 | .00689 | .00025 | .00110 | .00001 | .00004 | .00623 | .00014 | .00185 | .00089 |
| %RSD | 284.88 | 10.124 | 21.587 | 8.5154 | 73.304 | 7.2803 | 260.18 | 4.6120 | 40.393 | 18.402 | 124.03 |
| #1 | .00013 | .01026 | -.02705 | .00316 | .00229 | .00020 | -.00004 | .13945 | .00044 | -.00874 | -.00135 |
| #2 | -.00004 | .01184 | -.03680 | .00280 | .00073 | .00018 | .00001 | .13064 | .00024 | -.01135 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | .01000 | |
| Low Limit | | | | -.00261 | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00081** | **-.00046** | **-.00152** | **.01204** | **-.00035** | **.00015** | **.00160** | **-.00006** | **-.00011** | **.02890** | **-.00013** |
| Stddev | .00065 | .00083 | .00002 | .00280 | .00072 | .00002 | .00056 | .00024 | .00019 | .00895 | .00012 |
| %RSD | 79.233 | 177.61 | 1.3074 | 23.242 | 204.60 | 13.951 | 34.790 | 381.04 | 179.30 | 30.990 | 91.381 |
| #1 | -.00036 | -.00105 | -.00154 | .01006 | .00016 | .00013 | .00199 | .00011 | -.00024 | .03523 | -.00005 |
| #2 | -.00127 | .00012 | -.00151 | .01401 | -.00087 | .00016 | .00121 | -.00023 | .00003 | .02256 | -.00022 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00261** | **.00213** |
| Stddev | .00014 | .00032 |
| %RSD | 5.2726 | 14.863 |
| #1 | .00251 | .00235 |
| #2 | .00270 | .00191 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6358.7** | **81898.** | **5815.9** |
| Stddev | 12.8 | 59. | 46.1 |
| %RSD | .20127 | .07241 | .79264 |
| #1 | 6349.6 | 81856. | 5848.5 |
| #2 | 6367.7 | 81940. | 5783.3 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 22:47:53 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01090** | **.09741** | **.01687** | **.08888** | **.01069** | **.00090** | **.10381** | **.19447** | **.00522** | **.01085** | **.01007** |
| Stddev | .00006 | .00065 | .00042 | .00034 | .00059 | .00004 | .00138 | .00073 | .00004 | .00020 | .00015 |
| %RSD | .53623 | .66571 | 2.5030 | .38180 | 5.5531 | 4.9620 | 1.3286 | .37481 | .79903 | 1.8389 | 1.4565 |
| #1 | .01086 | .09695 | .01657 | .08864 | .01110 | .00087 | .10284 | .19499 | .00525 | .01071 | .00997 |
| #2 | .01094 | .09787 | .01717 | .08912 | .01027 | .00093 | .10479 | .19395 | .00519 | .01100 | .01017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01513** | **.09762** | **3.0584** | F **.01385** | **.21500** | **.01054** | **.01896** | **1.1157** | **.04094** | **2.8820** | W **.01090** |
| Stddev | .00020 | .00261 | .0350 | .00073 | .00128 | .00004 | .00008 | .0080 | .00018 | .0142 | .00182 |
| %RSD | 1.3189 | 2.6763 | 1.1458 | 5.3007 | .59518 | .36910 | .41491 | .71349 | .43554 | .49134 | 16.690 |
| #1 | .01527 | .09577 | 3.0832 | .01333 | .21590 | .01057 | .01890 | 1.1214 | .04082 | 2.8720 | .00962 |
| #2 | .01499 | .09946 | 3.0336 | .01437 | .21409 | .01051 | .01901 | 1.1101 | .04107 | 2.8920 | .01219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | | | | .00900 |
| Range | | | | 30.000% | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00934** | **.01238** | **.50246** | **.09899** | **.00981** | **.01534** | **.00975** | **.01392** | **.05285** | **.00945** |
| Stddev | .00161 | .00198 | .00178 | .00234 | .00015 | .00001 | .00029 | .00026 | .00092 | .02061 | .00042 |
| %RSD | 377.70 | 21.155 | 14.390 | .46539 | .15081 | .06077 | 1.9102 | 2.6171 | 6.5753 | 38.999 | 4.4470 |
| #1 | .00157 | .00794 | .01112 | .50081 | .09909 | .00981 | .01554 | .00957 | .01457 | .03827 | .00974 |
| #2 | -.00071 | .01074 | .01364 | .50412 | .09888 | .00981 | .01513 | .00993 | .01328 | .06742 | .00915 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02379** | **.01630** |
| Stddev | .00011 | .00090 |
| %RSD | .44179 | 5.5084 |
| #1 | .02371 | .01566 |
| #2 | .02386 | .01693 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6390.5** | **83106.** | **5845.1** |
| Stddev | 49.4 | 341. | 32.7 |
| %RSD | .77378 | .41077 | .55951 |
| #1 | 6425.5 | 82865. | 5822.0 |
| #2 | 6355.6 | 83348. | 5868.2 |

Sample Name: MB 280-173467/1-A Acquired: 5/14/2013 22:50:18 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00455** | **-.00120** | F **-.00743** | **.00022** | **.00004** | **-.00092** | **.01135** | **-.00001** |
| Stddev | .00026 | .00029 | .00146 | .00009 | .00005 | .00009 | .00299 | .00128 | .00017 |
| %RSD | 348.59 | 6.3074 | 121.30 | 1.2273 | 21.003 | 245.01 | 324.26 | 11.313 | 2340.0 |
| #1 | -.00026 | .00435 | -.00223 | -.00737 | .00025 | -.00003 | -.00303 | .01226 | -.00012 |
| #2 | .00011 | .00475 | -.00017 | -.00749 | .00019 | .00010 | .00119 | .01044 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | | | | | |
| Low Limit | | | | -.00343 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **-.00003** | **.00035** | **.02166** | **-.01611** | W **.00289** | **.00235** | **.00015** | **-.00008** |
| Stddev | .00002 | .00002 | .00039 | .00000 | .00079 | .00029 | .00107 | .00006 | .00014 |
| %RSD | 5.8842 | 59.979 | 111.36 | .00615 | 4.9040 | 10.058 | 45.464 | 40.687 | 160.40 |
| #1 | .00039 | -.00001 | .00008 | .02166 | -.01667 | .00269 | .00310 | .00019 | .00001 |
| #2 | .00042 | -.00004 | .00063 | .02166 | -.01555 | .00310 | .00159 | .00011 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00261 | | | |
| Low Limit | | | | | | -.00261 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.11736** | **.00012** | F **.14724** | **.00085** | **.00412** | **-.00083** | **-.00298** | **.02224** | **-.00026** |
| Stddev | .00977 | .00015 | .00172 | .00030 | .00306 | .00262 | .00171 | .01376 | .00088 |
| %RSD | 8.3281 | 122.38 | 1.1661 | 35.106 | 74.181 | 315.12 | 57.384 | 61.864 | 338.27 |
| #1 | .12428 | .00002 | .14602 | .00064 | .00196 | -.00269 | -.00419 | .01251 | .00036 |
| #2 | .11045 | .00023 | .14845 | .00106 | .00628 | .00102 | -.00177 | .03196 | -.00088 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .09160 | | .02970 | | | | | | |
| Low Limit | -.09160 | | -.02970 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00041** | **.00007** | **.00014** | W **.03457** | **-.00003** | **.00290** | **.00082** |
| Stddev | .00011 | .00182 | .00053 | .00004 | .03438 | .00012 | .00008 | .00152 |
| %RSD | 76.584 | 445.05 | 761.32 | 29.217 | 99.452 | 363.10 | 2.7693 | 185.82 |
| #1 | .00023 | .00088 | .00044 | .00011 | .01026 | .00005 | .00285 | .00190 |
| #2 | .00007 | -.00170 | -.00030 | .00017 | .05888 | -.00012 | .00296 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01610 | | | |
| Low Limit | | | | | -.01610 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6419.0** | **83576.** | **5892.9** |
| Stddev | 29.8 | 483. | 23.2 |
| %RSD | .46369 | .57764 | .39447 |
| #1 | 6440.1 | 83235. | 5909.4 |
| #2 | 6398.0 | 83918. | 5876.5 |

Sample Name: LCS 280-173467/2-A Acquired: 5/14/2013 22:52:47 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05549** | **1.8486** | **1.0167** | **1.0089** | **2.0557** | **.04870** | **2.0514** | **50.032** | **.10427** |
| Stddev | .00003 | .0029 | .0067 | .0010 | .0066 | .00024 | .0078 | .153 | .00001 |
| %RSD | .05082 | .15602 | .65903 | .10114 | .31911 | .49590 | .37878 | .30497 | .00514 |
| #1 | .05547 | 1.8506 | 1.0215 | 1.0096 | 2.0603 | .04887 | 2.0569 | 50.139 | .10426 |
| #2 | .05551 | 1.8465 | 1.0120 | 1.0081 | 2.0511 | .04853 | 2.0459 | 49.924 | .10427 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50292** | **.19874** | **.24984** | F **1.2372** | **51.256** | **1.0183** | **52.040** | **.51453** | **.98131** |
| Stddev | .00036 | .00023 | .00082 | .0060 | .110 | .0041 | .077 | .00055 | .00199 |
| %RSD | .07076 | .11371 | .32752 | .48863 | .21519 | .39931 | .14709 | .10701 | .20235 |
| #1 | .50317 | .19858 | .25041 | 1.2415 | 51.334 | 1.0212 | 52.094 | .51492 | .98271 |
| #2 | .50267 | .19890 | .24926 | 1.2330 | 51.178 | 1.0155 | 51.986 | .51414 | .97991 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.699** | **.49541** | **10.233** | **.50397** | **-.00540** | **.51607** | **2.0206** | **10.062** | **1.9729** |
| Stddev | .217 | .00049 | .007 | .00222 | .00492 | .00100 | .0014 | .010 | .0028 |
| %RSD | .41892 | .09831 | .06697 | .44099 | 91.125 | .19456 | .07092 | .10423 | .14102 |
| #1 | 51.546 | .49575 | 10.238 | .50554 | -.00192 | .51678 | 2.0216 | 10.055 | 1.9709 |
| #2 | 51.852 | .49506 | 10.228 | .50239 | -.00889 | .51536 | 2.0196 | 10.070 | 1.9748 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98115** | **1.0317** | **1.0180** | **1.9457** | **2.0752** | **.50803** | **.52793** | **.49012** |
| Stddev | .00611 | .0049 | .0011 | .0014 | .0081 | .00021 | .00190 | .00309 |
| %RSD | .62309 | .47075 | .11190 | .07349 | .39125 | .04139 | .36062 | .63078 |
| #1 | .98548 | 1.0351 | 1.0172 | 1.9446 | 2.0695 | .50788 | .52928 | .49231 |
| #2 | .97683 | 1.0282 | 1.0188 | 1.9467 | 2.0809 | .50817 | .52659 | .48794 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6198.2** | **80928.** | **5767.6** |
| Stddev | 2.2 | 144. | 7.8 |
| %RSD | .03513 | .17819 | .13460 |
| #1 | 6196.6 | 80826. | 5762.1 |
| #2 | 6199.7 | 81030. | 5773.1 |

Sample Name: 280-41962-C-1-A Acquired: 5/14/2013 22:55:00 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **.24685** | **-.00235** | **.01159** | **.15430** | **-.00011** | **-.00294** | **223.95** | **.00013** |
| Stddev | .00003 | .00065 | .00242 | .00046 | .00051 | .00001 | .00186 | 1.77 | .00005 |
| %RSD | 6.6314 | .26179 | 102.86 | 3.9274 | .33347 | 11.174 | 63.110 | .79212 | 39.096 |
| #1 | -.00045 | .24731 | -.00406 | .01192 | .15466 | -.00011 | -.00425 | 225.20 | .00016 |
| #2 | -.00049 | .24639 | -.00064 | .01127 | .15394 | -.00010 | -.00163 | 222.69 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **.00055** | **.00113** | **1.0530** | **1.4466** | **.00987** | **55.794** | **.05113** | **.00153** |
| Stddev | .00003 | .00015 | .00023 | .0015 | .0184 | .00161 | .059 | .00011 | .00003 |
| %RSD | 2.6557 | 27.506 | 20.010 | .14257 | 1.2687 | 16.314 | .10492 | .21352 | 2.0564 |
| #1 | .00112 | .00066 | .00097 | 1.0541 | 1.4596 | .01101 | 55.835 | .05120 | .00151 |
| #2 | .00108 | .00044 | .00129 | 1.0519 | 1.4336 | .00873 | 55.752 | .05105 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.253** | **.00100** | **.21718** | **.00079** | **8.2846** | **-.00010** | **-.00204** | **7.0630** | **-.00040** |
| Stddev | .023 | .00038 | .00337 | .00087 | .0163 | .00154 | .00284 | .0008 | .00028 |
| %RSD | .02907 | 38.258 | 1.5526 | 110.66 | .19636 | 1619.7 | 139.28 | .01181 | 68.737 |
| #1 | 79.270 | .00127 | .21956 | .00140 | 8.2961 | -.00118 | -.00003 | 7.0636 | -.00021 |
| #2 | 79.237 | .00073 | .21479 | .00017 | 8.2731 | .00099 | -.00405 | 7.0624 | -.00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3852** | **-.00013** | **.00596** | **.00081** | **.02382** | **.00173** | **.00449** | **.00126** |
| Stddev | .0283 | .00157 | .00036 | .00151 | .00435 | .00008 | .00012 | .00196 |
| %RSD | .83533 | 1205.6 | 6.0439 | 186.46 | 18.270 | 4.5664 | 2.6364 | 155.82 |
| #1 | 3.4052 | .00098 | .00571 | -.00026 | .02690 | .00167 | .00441 | -.00013 |
| #2 | 3.3652 | -.00124 | .00622 | .00188 | .02075 | .00178 | .00457 | .00264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6040.9** | **79008.** | **5745.2** |
| Stddev | 17.5 | 118. | 30.2 |
| %RSD | .28950 | .14932 | .52498 |
| #1 | 6053.3 | 79092. | 5723.9 |
| #2 | 6028.5 | 78925. | 5766.6 |

Sample Name: sd 280-41962-C-1-A@5 Acquired: 5/14/2013 22:57:23 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **.05344** | **-.00164** | **-.00363** | **.03162** | **.00001** | **-.00241** | **45.269** | **.00008** |
| Stddev | .00058 | .00014 | .00128 | .00009 | .00052 | .00003 | .00213 | .241 | .00019 |
| %RSD | 175.12 | .26705 | 78.043 | 2.3642 | 1.6389 | 431.52 | 88.677 | .53263 | 236.92 |
| #1 | -.00074 | .05334 | -.00254 | -.00369 | .03199 | -.00001 | -.00090 | 45.439 | -.00005 |
| #2 | .00008 | .05354 | -.00073 | -.00357 | .03126 | .00003 | -.00391 | 45.098 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00000** | **.00862** | **.22336** | **.27047** | **.00329** | **11.318** | **.01043** | **.00007** |
| Stddev | .00028 | .00009 | .00054 | .00050 | .01744 | .00207 | .002 | .00002 | .00004 |
| %RSD | 89.771 | 9614.2 | 6.2762 | .22341 | 6.4469 | 62.905 | .01949 | .19527 | 52.160 |
| #1 | .00011 | -.00006 | .00900 | .22372 | .25814 | .00183 | 11.320 | .01044 | .00010 |
| #2 | .00050 | .00007 | .00824 | .22301 | .28280 | .00475 | 11.317 | .01042 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **16.233** | **.00011** | **.03453** | **.00144** | **1.5931** | **-.00252** | **-.00279** | **1.3860** | **-.00043** |
| Stddev | .331 | .00005 | .00049 | .00010 | .0005 | .00010 | .00213 | .0114 | .00043 |
| %RSD | 2.0417 | 43.719 | 1.4269 | 7.1762 | .03338 | 3.9536 | 76.530 | .82292 | 99.991 |
| #1 | 16.468 | .00014 | .03418 | .00151 | 1.5927 | -.00259 | -.00128 | 1.3780 | -.00013 |
| #2 | 15.999 | .00007 | .03488 | .00136 | 1.5935 | -.00245 | -.00430 | 1.3941 | -.00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68128** | **.00086** | **.00100** | **-.00083** | **-.00317** | **.00071** | **.00897** | **.00009** |
| Stddev | .00337 | .00032 | .00036 | .00052 | .02103 | .00014 | .00057 | .00092 |
| %RSD | .49533 | 36.895 | 36.033 | 63.344 | 663.66 | 19.367 | 6.3478 | 985.57 |
| #1 | .68366 | .00108 | .00126 | -.00046 | .01170 | .00081 | .00938 | .00074 |
| #2 | .67889 | .00063 | .00075 | -.00120 | -.01804 | .00061 | .00857 | -.00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6297.1** | **82479.** | **5882.7** |
| Stddev | 14.3 | 31. | 42.8 |
| %RSD | .22782 | .03763 | .72698 |
| #1 | 6286.9 | 82457. | 5852.4 |
| #2 | 6307.2 | 82500. | 5912.9 |

Sample Name: 280-41962-C-1-B MS  Acquired: 5/14/2013 22:59:49  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05806** | **2.2410** | **1.0457** | **1.0472** | **2.2172** | **.04867** | **2.0982** | **269.69** | **.10699** |
| Stddev | .00069 | .0037 | .0002 | .0000 | .0098 | .00049 | .0022 | 6.98 | .00032 |
| %RSD | 1.1925 | .16530 | .02318 | .00254 | .44196 | 1.0018 | .10233 | 2.5866 | .30048 |
| #1 | .05757 | 2.2436 | 1.0455 | 1.0472 | 2.2241 | .04901 | 2.0967 | 274.62 | .10722 |
| #2 | .05855 | 2.2384 | 1.0458 | 1.0471 | 2.2103 | .04832 | 2.0997 | 264.76 | .10676 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49900** | **.19906** | **.25483** | **2.0705** | **54.167** | **1.0409** | **106.76** | **.55952** | **.99120** |
| Stddev | .00068 | .00024 | .00099 | .0101 | .263 | .0041 | .04 | .00041 | .00072 |
| %RSD | .13666 | .12231 | .38852 | .48878 | .48514 | .39270 | .03623 | .07274 | .07233 |
| #1 | .49948 | .19924 | .25553 | 2.0776 | 54.353 | 1.0438 | 106.73 | .55923 | .99170 |
| #2 | .49851 | .19889 | .25413 | 2.0633 | 53.981 | 1.0380 | 106.78 | .55981 | .99069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **131.39** | **.48860** | **10.672** | **.49959** | **8.3897** | **.52771** | **2.0575** | **17.689** | **1.9568** |
| Stddev | .88 | .00023 | .029 | .00006 | .0006 | .00150 | .0004 | .027 | .0004 |
| %RSD | .66764 | .04608 | .27276 | .01217 | .00663 | .28402 | .01864 | .15302 | .01793 |
| #1 | 132.01 | .48876 | 10.692 | .49963 | 8.3901 | .52877 | 2.0578 | 17.708 | 1.9565 |
| #2 | 130.77 | .48844 | 10.651 | .49954 | 8.3893 | .52665 | 2.0573 | 17.670 | 1.9570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.3676** | **1.0399** | **1.0326** | **1.9007** | **2.1022** | **.51457** | **.51865** | **.48622** |
| Stddev | .0326 | .0010 | .0016 | .0010 | .0008 | .00080 | .00080 | .00518 |
| %RSD | .74700 | .09626 | .15405 | .05407 | .03869 | .15548 | .15365 | 1.0649 |
| #1 | 4.3907 | 1.0406 | 1.0315 | 1.9014 | 2.1016 | .51514 | .51809 | .48989 |
| #2 | 4.3446 | 1.0392 | 1.0337 | 1.9000 | 2.1028 | .51400 | .51921 | .48256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5966.8** | **78989.** | **5736.3** |
| Stddev | 6.6 | 25. | 29.8 |
| %RSD | .11011 | .03102 | .51906 |
| #1 | 5971.5 | 78972. | 5715.3 |
| #2 | 5962.2 | 79006. | 5757.4 |

Sample Name: 280-41962-C-1-C MSD  Acquired: 5/14/2013 23:02:06  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05714** | **2.2122** | **1.0459** | **1.0419** | **2.2211** | **.04848** | **2.1026** | **268.81** | **.10696** |
| Stddev | .00054 | .0057 | .0073 | .0030 | .0018 | .00041 | .0024 | 3.76 | .00023 |
| %RSD | .94723 | .25646 | .69736 | .28777 | .08263 | .84424 | .11205 | 1.3976 | .21454 |
| #1 | .05676 | 2.2162 | 1.0511 | 1.0440 | 2.2224 | .04877 | 2.1042 | 271.46 | .10712 |
| #2 | .05752 | 2.2081 | 1.0408 | 1.0398 | 2.2198 | .04819 | 2.1009 | 266.15 | .10680 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50038** | **.20019** | **.25440** | **2.0616** | **54.205** | **1.0413** | **107.25** | **.56137** | **.98800** |
| Stddev | .00154 | .00065 | .00149 | .0007 | .155 | .0060 | .08 | .00075 | .00149 |
| %RSD | .30717 | .32588 | .58764 | .03206 | .28642 | .57947 | .07279 | .13426 | .15079 |
| #1 | .50147 | .20065 | .25545 | 2.0611 | 54.315 | 1.0456 | 107.31 | .56084 | .98905 |
| #2 | .49929 | .19973 | .25334 | 2.0620 | 54.096 | 1.0371 | 107.20 | .56191 | .98695 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **130.98** | **.49070** | **10.685** | **.49790** | **8.4216** | **.51916** | **2.0637** | **17.549** | **1.9473** |
| Stddev | 1.26 | .00122 | .019 | .00083 | .0095 | .00005 | .0053 | .005 | .0065 |
| %RSD | .95820 | .24778 | .18200 | .16644 | .11276 | .00919 | .25782 | .02695 | .33452 |
| #1 | 131.87 | .49156 | 10.699 | .49731 | 8.4283 | .51919 | 2.0675 | 17.552 | 1.9519 |
| #2 | 130.10 | .48984 | 10.671 | .49848 | 8.4149 | .51913 | 2.0600 | 17.545 | 1.9427 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.3738** | **1.0455** | **1.0264** | **1.9058** | **2.1443** | **.51557** | **.51935** | **.48733** |
| Stddev | .0158 | .0042 | .0007 | .0032 | .0156 | .00046 | .00043 | .00502 |
| %RSD | .36033 | .40404 | .06899 | .16712 | .72744 | .08834 | .08279 | 1.0309 |
| #1 | 4.3850 | 1.0425 | 1.0259 | 1.9080 | 2.1332 | .51589 | .51904 | .49088 |
| #2 | 4.3627 | 1.0485 | 1.0269 | 1.9035 | 2.1553 | .51525 | .51965 | .48377 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5985.4** | **78589.** | **5748.0** |
| Stddev | 8.6 | 155. | 59.1 |
| %RSD | .14404 | .19660 | 1.0281 |
| #1 | 5979.3 | 78480. | 5706.2 |
| #2 | 5991.5 | 78699. | 5789.8 |

Sample Name: 280-41962-C-2-A Acquired: 5/14/2013 23:04:23 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00684** | **-.00116** | **.01008** | **.07454** | **-.00004** | **-.00148** | **96.487** | **-.00000** |
| Stddev | .00005 | .00036 | .00059 | .00002 | .00021 | .00005 | .00122 | .395 | .00004 |
| %RSD | 72.118 | 5.3029 | 50.683 | .15938 | .27585 | 134.76 | 82.192 | .40954 | 863.62 |
| #1 | .00004 | .00659 | -.00075 | .01009 | .07439 | -.00007 | -.00234 | 96.767 | -.00003 |
| #2 | .00011 | .00710 | -.00158 | .01006 | .07468 | -.00000 | -.00062 | 96.208 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00005** | **.00029** | **.20322** | **1.1238** | **.00617** | **26.059** | **.10640** | **.00006** |
| Stddev | .00009 | .00009 | .00005 | .00312 | .0473 | .00407 | .061 | .00005 | .00004 |
| %RSD | 38.397 | 182.84 | 18.583 | 1.5374 | 4.2126 | 66.067 | .23421 | .05054 | 77.505 |
| #1 | .00030 | -.00002 | .00033 | .20101 | 1.1573 | .00329 | 26.102 | .10636 | .00003 |
| #2 | .00017 | .00012 | .00025 | .20543 | 1.0903 | .00905 | 26.016 | .10643 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **42.871** | **.00013** | **.16352** | **.00150** | **16.897** | **-.00085** | **.00109** | **5.2130** | **-.00005** |
| Stddev | .022 | .00007 | .00198 | .00035 | .028 | .00047 | .00095 | .0184 | .00022 |
| %RSD | .05192 | 53.730 | 1.2127 | 23.219 | .16629 | 55.096 | 87.720 | .35283 | 439.12 |
| #1 | 42.856 | .00008 | .16492 | .00175 | 16.877 | -.00119 | .00041 | 5.2000 | .00011 |
| #2 | 42.887 | .00017 | .16212 | .00125 | 16.917 | -.00052 | .00176 | 5.2260 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6687** | **-.00084** | **.00028** | **-.00069** | **.00836** | **-.00001** | **.00305** | **.00142** |
| Stddev | .0130 | .00117 | .00012 | .00073 | .02144 | .00026 | .00027 | .00029 |
| %RSD | .78004 | 139.34 | 43.844 | 105.54 | 256.37 | 2629.9 | 8.9047 | 20.459 |
| #1 | 1.6779 | -.00001 | .00037 | -.00121 | -.00680 | -.00019 | .00324 | .00122 |
| #2 | 1.6595 | -.00167 | .00020 | -.00018 | .02352 | .00017 | .00286 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6196.4** | **80524.** | **5839.9** |
| Stddev | 6.4 | 28. | 31.0 |
| %RSD | .10264 | .03471 | .53008 |
| #1 | 6191.9 | 80544. | 5818.0 |
| #2 | 6200.9 | 80504. | 5861.8 |

Sample Name: 280-41962-C-3-A Acquired: 5/14/2013 23:06:48 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **.02529** | **.00046** | **.19773** | **.54162** | **.00004** | **-.00086** | **3.0143** | **-.00012** |
| Stddev | .00016 | .00026 | .00408 | .00037 | .00615 | .00005 | .00018 | .0129 | .00006 |
| %RSD | 25.432 | 1.0165 | 884.72 | .18627 | 1.1348 | 112.62 | 21.002 | .42700 | 49.923 |
| #1 | -.00075 | .02511 | .00335 | .19747 | .54597 | .00007 | -.00099 | 3.0234 | -.00016 |
| #2 | -.00052 | .02547 | -.00243 | .19799 | .53727 | .00001 | -.00073 | 3.0052 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00158** | **.00141** | **.95249** | **3.0641** | **.12214** | **.66959** | **.01527** | **.00051** |
| Stddev | .00031 | .00008 | .00005 | .00008 | .0344 | .00077 | .00677 | .00002 | .00009 |
| %RSD | 55.236 | 4.9756 | 3.3698 | .00837 | 1.1237 | .63124 | 1.0117 | .12663 | 17.900 |
| #1 | .00078 | .00152 | .00138 | .95254 | 3.0885 | .12160 | .67438 | .01526 | .00045 |
| #2 | .00034 | .00163 | .00144 | .95243 | 3.0398 | .12269 | .66480 | .01529 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **581.70** | **.00064** | **.08195** | **.00083** | **.17267** | **-.00073** | **-.00171** | **9.5158** | **-.00027** |
| Stddev | 9.11 | .00012 | .00225 | .00102 | .00099 | .00182 | .00258 | .0593 | .00011 |
| %RSD | 1.5653 | 18.685 | 2.7444 | 123.46 | .57571 | 251.11 | 150.52 | .62362 | 40.772 |
| #1 | 588.13 | .00056 | .08036 | .00011 | .17197 | -.00202 | -.00353 | 9.5578 | -.00019 |
| #2 | 575.26 | .00073 | .08354 | .00155 | .17338 | .00056 | .00011 | 9.4739 | -.00035 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56163** | **-.00062** | **.00010** | **-.00028** | **.02265** | **.00028** | **.00427** | **.00262** |
| Stddev | .00791 | .00138 | .00022 | .00075 | .00490 | .00074 | .00023 | .00143 |
| %RSD | 1.4092 | 223.17 | 230.57 | 272.54 | 21.627 | 265.73 | 5.3515 | 54.538 |
| #1 | .56722 | .00036 | -.00006 | .00026 | .01918 | .00080 | .00411 | .00363 |
| #2 | .55603 | -.00159 | .00025 | -.00081 | .02611 | -.00024 | .00443 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6059.6** | **78504.** | **5800.6** |
| Stddev | 3.2 | 210. | 48.4 |
| %RSD | .05287 | .26781 | .83471 |
| #1 | 6057.4 | 78356. | 5766.4 |
| #2 | 6061.9 | 78653. | 5834.9 |

Sample Name: 280-41962-C-4-A Acquired: 5/14/2013 23:09:54 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **1.0583** | **.00193** | **.21944** | **.48084** | **-.00000** | **-.00011** | **3.7647** | **-.00011** |
| Stddev | .00038 | .0032 | .00110 | .00005 | .00607 | .00005 | .00011 | .0419 | .00013 |
| %RSD | 779.30 | .29969 | 56.948 | .02091 | 1.2630 | 1484.2 | 101.16 | 1.1121 | 123.62 |
| #1 | -.00031 | 1.0561 | .00115 | .21940 | .48514 | -.00004 | -.00019 | 3.7943 | -.00001 |
| #2 | .00022 | 1.0605 | .00271 | .21947 | .47655 | .00003 | -.00003 | 3.7351 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00093** | **.00196** | **.00276** | **1.5931** | **3.5904** | **.14236** | **.94182** | **.03460** | **.00044** |
| Stddev | .00000 | .00014 | .00034 | .0147 | .0478 | .00066 | .00380 | .00003 | .00028 |
| %RSD | .11296 | 6.9979 | 12.276 | .92002 | 1.3316 | .46094 | .40371 | .09854 | 63.315 |
| #1 | .00093 | .00187 | .00300 | 1.6035 | 3.6242 | .14282 | .94451 | .03458 | .00024 |
| #2 | .00093 | .00206 | .00252 | 1.5827 | 3.5566 | .14190 | .93914 | .03463 | .00063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **618.99** | **.00115** | **.18245** | **.00105** | **.29825** | **-.00327** | **-.00337** | **10.974** | **-.00019** |
| Stddev | 8.88 | .00030 | .00198 | .00056 | .00006 | .00219 | .00057 | .114 | .00062 |
| %RSD | 1.4344 | 26.525 | 1.0872 | 52.994 | .02020 | 67.077 | 16.944 | 1.0397 | 334.15 |
| #1 | 625.26 | .00136 | .18386 | .00144 | .29829 | -.00172 | -.00296 | 11.055 | .00025 |
| #2 | 612.71 | .00093 | .18105 | .00066 | .29821 | -.00481 | -.00377 | 10.894 | -.00062 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58811** | **.00023** | **.01788** | **-.00004** | **.04842** | **.00282** | **.00848** | **.00055** |
| Stddev | .00847 | .00029 | .00027 | .00076 | .03129 | .00005 | .00011 | .00301 |
| %RSD | 1.4409 | 123.82 | 1.4921 | 2108.1 | 64.620 | 1.6028 | 1.3285 | 548.84 |
| #1 | .59410 | .00003 | .01769 | -.00057 | .02630 | .00285 | .00840 | -.00158 |
| #2 | .58211 | .00044 | .01807 | .00050 | .07055 | .00279 | .00856 | .00268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6003.3** | **78275.** | **5796.4** |
| Stddev | 41.2 | 357. | 47.5 |
| %RSD | .68622 | .45619 | .81960 |
| #1 | 6032.5 | 78527. | 5762.8 |
| #2 | 5974.2 | 78022. | 5830.0 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 23:12:59 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00721** | **50.988** | **-.00089** | **-.00556** | **.00057** | **-.00000** | **1.0310** | **-.00440** | **-.00087** | **.00259** | **.00010** | **.00071** | **51.225** |
| Stddev | .00029 | .096 | .00095 | .00032 | .00023 | .00002 | .0070 | .00377 | .00006 | .00012 | .00007 | .00003 | .055 |
| %RSD | 4.0435 | .18738 | 106.17 | 5.8108 | 39.712 | 567.20 | .67713 | 85.612 | 6.5813 | 4.6021 | 74.246 | 3.8569 | .10662 |
| #1 | .00741 | 51.055 | -.00156 | -.00533 | .00041 | -.00002 | 1.0359 | -.00174 | -.00083 | .00267 | .00005 | .00073 | 51.264 |
| #2 | .00700 | 50.920 | -.00022 | -.00579 | .00073 | .00001 | 1.0260 | -.00706 | -.00091 | .00250 | .00015 | .00069 | 51.187 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05497** | **.00604** | **-.01497** | **-.00073** | **-.00169** | **259.73** | **.00123** | **-.00606** | **.00182** | **5.2956** | **-.00215** | **-.00015** | **.01920** |
| Stddev | .01582 | .00039 | .00367 | .00010 | .00004 | 1.42 | .00014 | .00027 | .00077 | .0109 | .00143 | .00017 | .00992 |
| %RSD | 28.773 | 6.5075 | 24.507 | 14.172 | 2.5156 | .54829 | 11.048 | 4.4650 | 42.125 | .20537 | 66.776 | 119.85 | 51.659 |
| #1 | .06616 | .00631 | -.01237 | -.00080 | -.00172 | 260.74 | .00113 | -.00626 | .00236 | 5.3033 | -.00113 | -.00002 | .01219 |
| #2 | .04379 | .00576 | -.01756 | -.00065 | -.00166 | 258.73 | .00132 | -.00587 | .00128 | 5.2879 | -.00316 | -.00027 | .02621 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **.00031** | **5.2404** | **.00262** | **-.00354** | **10.189** | **-.00039** | **.00352** | **-.04326** |
| Stddev | .00020 | .00006 | .0066 | .00032 | .00039 | .045 | .00053 | .00014 | .00030 |
| %RSD | 22.929 | 20.932 | .12521 | 12.174 | 10.976 | .43955 | 137.52 | 3.9154 | .68238 |
| #1 | .00073 | .00035 | 5.2450 | .00285 | -.00382 | 10.221 | -.00076 | .00361 | -.04347 |
| #2 | .00101 | .00026 | 5.2357 | .00239 | -.00327 | 10.157 | -.00001 | .00342 | -.04305 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6172.4** | **79004.** | **5724.9** |
| Stddev | 13.6 | 196. | 12.8 |
| %RSD | .21962 | .24850 | .22316 |
| #1 | 6162.8 | 78865. | 5715.9 |
| #2 | 6181.9 | 79142. | 5734.0 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 23:15:24 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54978** | **.50480** | **1.0654** | **.51986** | **.52456** | **.49901** | **.00260** | **5.2031** | **.53267** | **.53548** | **.51892** | **.52380** |
| Stddev | .00003 | .00061 | .0013 | .00045 | .00031 | .00054 | .00141 | .0075 | .00100 | .00110 | .00140 | .00188 |
| %RSD | .00555 | .12164 | .12034 | .08642 | .05922 | .10811 | 54.179 | .14442 | .18789 | .20595 | .27067 | .35888 |
| #1 | .54980 | .50524 | 1.0645 | .51955 | .52478 | .49863 | .00160 | 5.1978 | .53196 | .53470 | .51792 | .52247 |
| #2 | .54976 | .50437 | 1.0663 | .52018 | .52434 | .49940 | .00360 | 5.2084 | .53338 | .53626 | .51991 | .52513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5700** | **52.596** | **1.0573** | F **22.107** | **.54551** | **.51196** | **5.3457** | **.52783** | **1.0369** | **1.0629** | **-.00345** | **1.0683** |
| Stddev | .0008 | .010 | .0027 | .030 | .00063 | .00041 | .0261 | .00066 | .0029 | .0009 | .00171 | .0034 |
| %RSD | .02902 | .01980 | .25441 | .13425 | .11526 | .08009 | .48787 | .12431 | .27731 | .08240 | 49.545 | .31973 |
| #1 | 2.5694 | 52.589 | 1.0592 | 22.086 | .54506 | .51225 | 5.3642 | .52736 | 1.0348 | 1.0635 | -.00466 | 1.0658 |
| #2 | 2.5705 | 52.604 | 1.0554 | 22.128 | .54595 | .51167 | 5.3273 | .52829 | 1.0389 | 1.0623 | -.00224 | 1.0707 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | 20.000 | | | | | | | | |
| Range | | | | 10.000% | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0549** | **5.1443** | **1.0349** | **.50471** | **-.00021** | **.53210** | **1.0259** | **.02953** | **.52907** | F **.56439** | **.51554** |
| Stddev | .0043 | .0033 | .0015 | .00016 | .00067 | .00087 | .0038 | .02480 | .00038 | .00037 | .00278 |
| %RSD | .41078 | .06486 | .14822 | .03225 | 316.38 | .16422 | .36751 | 83.984 | .07176 | .06488 | .53838 |
| #1 | 1.0519 | 5.1467 | 1.0338 | .50459 | -.00068 | .53271 | 1.0232 | .04707 | .52880 | .56413 | .51357 |
| #2 | 1.0580 | 5.1420 | 1.0360 | .50482 | .00026 | .53148 | 1.0285 | .01199 | .52933 | .56465 | .51750 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6169.8** | **78976.** | **5774.4** |
| Stddev | 3.1 | 144. | 3.2 |
| %RSD | .05036 | .18286 | .05561 |
| #1 | 6167.6 | 78874. | 5776.7 |
| #2 | 6172.0 | 79078. | 5772.1 |

Sample Name: CCB Acquired: 5/14/2013 23:17:37 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **-.00038** | **-.00169** | F **-.00646** | W **.00059** | **-.00006** | **-.00160** | **-.00371** | **-.00021** | **.00019** | **-.00006** |
| Stddev | .00080 | .00021 | .00044 | .00030 | .00017 | .00004 | .00082 | .00117 | .00008 | .00011 | .00007 |
| %RSD | 2468.9 | 54.034 | 25.853 | 4.5749 | 29.094 | 64.261 | 51.017 | 31.577 | 37.438 | 57.315 | 109.29 |
| #1 | -.00060 | -.00023 | -.00200 | -.00625 | .00047 | -.00003 | -.00102 | -.00288 | -.00027 | .00027 | -.00011 |
| #2 | .00054 | -.00053 | -.00138 | -.00667 | .00071 | -.00008 | -.00217 | -.00454 | -.00015 | .00011 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00209** | **-.02291** | W **.00355** | **.00032** | **.00003** | **-.00002** | F **.24298** | **-.00010** | **-.00851** | **.00034** |
| Stddev | .00017 | .00017 | .02454 | .00118 | .00053 | .00001 | .00003 | .03003 | .00009 | .00005 | .00182 |
| %RSD | 130.10 | 7.9885 | 107.14 | 33.339 | 164.69 | 20.098 | 148.55 | 12.358 | 86.582 | .53878 | 533.85 |
| #1 | .00025 | .00221 | -.00555 | .00439 | .00070 | .00003 | -.00004 | .26422 | -.00004 | -.00855 | .00163 |
| #2 | .00001 | .00197 | -.04026 | .00271 | -.00005 | .00002 | .00000 | .22175 | -.00016 | -.00848 | -.00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **-.00047** | **-.00166** | **.00301** | **-.00011** | **-.00005** | **-.00010** | **-.00016** | **-.00002** | **.02420** | **-.00004** |
| Stddev | .00386 | .00002 | .00198 | .01276 | .00088 | .00001 | .00294 | .00003 | .00040 | .04103 | .00043 |
| %RSD | 1989.6 | 4.1371 | 119.16 | 424.16 | 839.26 | 17.063 | 2987.5 | 22.235 | 1763.3 | 169.56 | 1042.0 |
| #1 | .00292 | -.00048 | -.00026 | .01203 | .00052 | -.00006 | -.00218 | -.00018 | -.00031 | .05321 | -.00034 |
| #2 | -.00253 | -.00045 | -.00306 | -.00601 | -.00073 | -.00005 | .00198 | -.00013 | .00026 | -.00481 | .00026 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00266** | **.00028** |
| Stddev | .00003 | .00286 |
| %RSD | 1.0691 | 1016.1 |
| #1 | .00268 | .00230 |
| #2 | .00264 | -.00174 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6197.7** | **80468.** | **5748.3** |
| Stddev | 10.7 | 15. | 31.6 |
| %RSD | .17246 | .01815 | .55040 |
| #1 | 6190.2 | 80457. | 5770.7 |
| #2 | 6205.3 | 80478. | 5725.9 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 23:20:08 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01097** | **.10130** | **.01626** | **.09371** | **.01112** | **.00098** | **.10610** | **.20416** | **.00532** | **.01116** | **.01051** |
| Stddev | .00041 | .00037 | .00105 | .00001 | .00014 | .00009 | .00086 | .00185 | .00002 | .00006 | .00011 |
| %RSD | 3.6931 | .36541 | 6.4368 | .00694 | 1.2488 | 8.9915 | .81352 | .90516 | .40960 | .53278 | 1.0881 |
| #1 | .01068 | .10156 | .01552 | .09371 | .01122 | .00105 | .10671 | .20547 | .00531 | .01111 | .01043 |
| #2 | .01126 | .10104 | .01700 | .09370 | .01103 | .00092 | .10549 | .20286 | .00534 | .01120 | .01059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01619** | **.10404** | **3.1642** | W **.01245** | **.22313** | **.01099** | **.02002** | W **1.2392** | **.04261** | **3.0189** | **.01074** |
| Stddev | .00062 | .00174 | .0219 | .00092 | .00287 | .00007 | .00012 | .0020 | .00014 | .0064 | .00038 |
| %RSD | 3.8120 | 1.6740 | .69170 | 7.3688 | 1.2848 | .60247 | .60338 | .16251 | .32051 | .21256 | 3.5402 |
| #1 | .01663 | .10527 | 3.1487 | .01310 | .22110 | .01094 | .02010 | 1.2406 | .04251 | 3.0144 | .01048 |
| #2 | .01575 | .10281 | 3.1796 | .01180 | .22515 | .01104 | .01993 | 1.2377 | .04271 | 3.0234 | .01101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 20.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **.00938** | **.01383** | **.50581** | **.10329** | **.01015** | **.01721** | **.01016** | **.01502** | **.06239** | **.01043** |
| Stddev | .00033 | .00013 | .00325 | .00015 | .00005 | .00014 | .00066 | .00051 | .00006 | .00945 | .00039 |
| %RSD | 45.847 | 1.4011 | 23.503 | .02963 | .05051 | 1.4182 | 3.8447 | 5.0152 | .40510 | 15.149 | 3.7458 |
| #1 | .00095 | .00947 | .01153 | .50570 | .10325 | .01005 | .01674 | .00980 | .01506 | .06907 | .01016 |
| #2 | .00048 | .00929 | .01613 | .50591 | .10332 | .01025 | .01768 | .01052 | .01497 | .05571 | .01071 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02514** | **.01645** |
| Stddev | .00000 | .00058 |
| %RSD | .01844 | 3.5040 |
| #1 | .02514 | .01686 |
| #2 | .02513 | .01605 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6333.4** | **82680.** | **5818.8** |
| Stddev | 17.0 | 374. | 41.2 |
| %RSD | .26798 | .45234 | .70787 |
| #1 | 6321.4 | 82945. | 5847.9 |
| #2 | 6345.4 | 82416. | 5789.6 |

Sample Name: 280-41962-C-5-A Acquired: 5/14/2013 23:22:33 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **1.0210** | **-.00013** | **.22001** | **.47847** | **.00005** | **-.00174** | **3.7053** | **-.00003** |
| Stddev | .00043 | .0010 | .00275 | .00042 | .00153 | .00008 | .00241 | .0006 | .00004 |
| %RSD | 126.81 | .09403 | 2115.0 | .19141 | .31883 | 162.48 | 138.90 | .01638 | 132.50 |
| #1 | -.00065 | 1.0216 | .00181 | .22031 | .47739 | -.00001 | -.00003 | 3.7057 | -.00000 |
| #2 | -.00004 | 1.0203 | -.00207 | .21972 | .47955 | .00011 | -.00345 | 3.7048 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00204** | **.00263** | **1.5347** | **3.4282** | **.13590** | **.93662** | **.03482** | **.00061** |
| Stddev | .00027 | .00005 | .00005 | .0033 | .0123 | .00131 | .00486 | .00003 | .00021 |
| %RSD | 33.317 | 2.3576 | 1.7687 | .21642 | .35879 | .96502 | .51927 | .07461 | 34.047 |
| #1 | .00063 | .00201 | .00259 | 1.5324 | 3.4195 | .13682 | .94006 | .03480 | .00046 |
| #2 | .00101 | .00208 | .00266 | 1.5371 | 3.4369 | .13497 | .93318 | .03484 | .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **617.17** | **.00114** | **.19763** | **.00068** | **.29760** | **-.00118** | **-.00339** | **10.753** | **-.00026** |
| Stddev | .84 | .00011 | .00408 | .00054 | .00278 | .00201 | .00158 | .005 | .00038 |
| %RSD | .13544 | 9.2184 | 2.0626 | 79.442 | .93423 | 170.65 | 46.534 | .04403 | 146.43 |
| #1 | 616.58 | .00122 | .20051 | .00030 | .29956 | -.00259 | -.00227 | 10.749 | .00001 |
| #2 | 617.76 | .00107 | .19475 | .00106 | .29563 | .00024 | -.00450 | 10.756 | -.00053 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58475** | **.00039** | **.01635** | **.00092** | **.01332** | **.00229** | **.00959** | **.00006** |
| Stddev | .00047 | .00041 | .00078 | .00145 | .02314 | .00013 | .00000 | .00163 |
| %RSD | .08023 | 102.98 | 4.7920 | 156.46 | 173.75 | 5.7970 | .03798 | 2621.5 |
| #1 | .58442 | .00068 | .01579 | .00195 | .02968 | .00239 | .00959 | .00121 |
| #2 | .58508 | .00011 | .01690 | -.00010 | -.00304 | .00220 | .00959 | -.00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5948.9** | **77593.** | **5711.4** |
| Stddev | 12.4 | 271. | 16.7 |
| %RSD | .20786 | .34950 | .29268 |
| #1 | 5957.6 | 77401. | 5699.6 |
| #2 | 5940.1 | 77785. | 5723.2 |

Sample Name: 280-41962-C-6-A Acquired: 5/14/2013 23:25:38 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **2.0334** | **-.00050** | **.14670** | **.13333** | **.00013** | **-.00285** | **25.993** | **-.00007** |
| Stddev | .00050 | .0036 | .00247 | .00013 | .00135 | .00010 | .00006 | .274 | .00007 |
| %RSD | 321.08 | .17604 | 489.37 | .08548 | 1.0154 | 76.868 | 2.0703 | 1.0541 | 107.52 |
| #1 | .00020 | 2.0308 | .00124 | .14661 | .13237 | .00020 | -.00289 | 25.799 | -.00002 |
| #2 | -.00051 | 2.0359 | -.00225 | .14679 | .13429 | .00006 | -.00281 | 26.187 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **.00197** | **.00449** | **1.8009** | **4.5171** | **.08114** | **9.9395** | **.05703** | **.00450** |
| Stddev | .00002 | .00004 | .00024 | .0027 | .0087 | .00114 | .0017 | .00020 | .00023 |
| %RSD | 1.3788 | 1.8691 | 5.3138 | .15255 | .19219 | 1.4003 | .01658 | .35295 | 5.0493 |
| #1 | .00134 | .00195 | .00433 | 1.7989 | 4.5109 | .08195 | 9.9406 | .05717 | .00434 |
| #2 | .00136 | .00200 | .00466 | 1.8028 | 4.5232 | .08034 | 9.9383 | .05689 | .00466 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **521.89** | **.00169** | **.39978** | **.00233** | **1.7999** | **-.00037** | **-.00178** | **11.957** | **-.00019** |
| Stddev | 3.86 | .00014 | .00082 | .00060 | .0005 | .00198 | .00285 | .020 | .00074 |
| %RSD | .74028 | 8.1287 | .20444 | 25.895 | .02672 | 533.58 | 160.24 | .17132 | 379.70 |
| #1 | 519.16 | .00178 | .39920 | .00276 | 1.7996 | -.00177 | .00024 | 11.943 | -.00071 |
| #2 | 524.62 | .00159 | .40035 | .00190 | 1.8003 | .00103 | -.00379 | 11.972 | .00033 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55359** | **.00025** | **.02088** | **-.00004** | **.04011** | **.00616** | **.00922** | **.00074** |
| Stddev | .00406 | .00135 | .00013 | .00008 | .00514 | .00088 | .00041 | .00006 |
| %RSD | .73288 | 536.61 | .63903 | 183.89 | 12.819 | 14.208 | 4.4487 | 8.3143 |
| #1 | .55072 | -.00070 | .02097 | .00001 | .04375 | .00554 | .00951 | .00078 |
| #2 | .55646 | .00121 | .02078 | -.00010 | .03648 | .00678 | .00893 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5986.3** | **77510.** | **5750.3** |
| Stddev | 26.0 | 9. | 46.2 |
| %RSD | .43411 | .01138 | .80269 |
| #1 | 6004.7 | 77516. | 5783.0 |
| #2 | 5967.9 | 77504. | 5717.7 |

Sample Name: 280-41962-C-7-A Acquired: 5/14/2013 23:28:41 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00081** | **.00973** | **-.00304** | **.01436** | **.14243** | **-.00014** | **-.00341** | **222.27** | **-.00002** |
| Stddev | .00038 | .00016 | .00119 | .00037 | .00061 | .00006 | .00051 | .82 | .00013 |
| %RSD | 46.719 | 1.6037 | 39.235 | 2.5695 | .43095 | 40.494 | 14.906 | .36843 | 556.61 |
| #1 | -.00107 | .00962 | -.00388 | .01462 | .14286 | -.00018 | -.00305 | 222.85 | -.00012 |
| #2 | -.00054 | .00984 | -.00219 | .01410 | .14199 | -.00010 | -.00377 | 221.69 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00024** | **.00132** | **.39966** | **1.4801** | **.01021** | **52.996** | **.01430** | **.00065** |
| Stddev | .00025 | .00020 | .00015 | .00118 | .0310 | .00243 | .094 | .00002 | .00001 |
| %RSD | 35.170 | 86.882 | 10.985 | .29481 | 2.0934 | 23.815 | .17776 | .13591 | 1.9186 |
| #1 | .00054 | .00009 | .00122 | .40049 | 1.5020 | .00849 | 53.063 | .01428 | .00066 |
| #2 | .00090 | .00038 | .00142 | .39883 | 1.4582 | .01193 | 52.930 | .01431 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **76.634** | **.00097** | **.20555** | **.00137** | **8.6907** | **-.00048** | **.00071** | **7.0628** | **.00021** |
| Stddev | .192 | .00038 | .00170 | .00003 | .0326 | .00197 | .00220 | .0020 | .00075 |
| %RSD | .25035 | 38.825 | .82926 | 1.8362 | .37503 | 412.29 | 308.39 | .02825 | 358.97 |
| #1 | 76.770 | .00071 | .20676 | .00135 | 8.6677 | -.00187 | -.00084 | 7.0614 | .00074 |
| #2 | 76.499 | .00124 | .20435 | .00139 | 8.7138 | .00092 | .00227 | 7.0642 | -.00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2309** | **-.00009** | **.00106** | **.00078** | **.02382** | **.00157** | **.00294** | **-.00008** |
| Stddev | .0186 | .00098 | .00024 | .00102 | .01496 | .00061 | .00028 | .00118 |
| %RSD | .57586 | 1088.1 | 22.787 | 130.84 | 62.796 | 38.906 | 9.4390 | 1519.8 |
| #1 | 3.2441 | -.00078 | .00089 | .00006 | .03440 | .00200 | .00314 | .00076 |
| #2 | 3.2178 | .00060 | .00123 | .00150 | .01324 | .00114 | .00275 | -.00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5966.5** | **77649.** | **5606.3** |
| Stddev | 7.6 | 472. | 14.0 |
| %RSD | .12789 | .60848 | .24957 |
| #1 | 5961.1 | 77315. | 5596.4 |
| #2 | 5971.9 | 77983. | 5616.2 |

Sample Name: 280-41976-C-1-A Acquired: 5/14/2013 23:31:05 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **22.931** | **-.00089** | **-.00205** | **.03042** | **.00334** | **-.00004** | **484.91** | **.03640** |
| Stddev | .00040 | .124 | .00148 | .00039 | .00040 | .00006 | .00254 | 6.31 | .00012 |
| %RSD | 41.910 | .53984 | 165.92 | 18.843 | 1.3027 | 1.8193 | 5759.5 | 1.3011 | .33950 |
| #1 | .00068 | 22.844 | .00015 | -.00233 | .03014 | .00330 | -.00184 | 489.37 | .03631 |
| #2 | .00125 | 23.019 | -.00194 | -.00178 | .03070 | .00339 | .00176 | 480.45 | .03648 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10244** | **.00176** | **4.7666** | **18.498** | **5.9448** | **.03479** | **35.526** | **6.8752** | **-.00071** |
| Stddev | .00024 | .00004 | .0043 | .132 | .0186 | .00047 | .080 | .0286 | .00014 |
| %RSD | .23890 | 2.2119 | .09041 | .71382 | .31253 | 1.3547 | .22506 | .41642 | 19.561 |
| #1 | .10226 | .00174 | 4.7636 | 18.405 | 5.9316 | .03512 | 35.583 | 6.8550 | -.00081 |
| #2 | .10261 | .00179 | 4.7697 | 18.592 | 5.9579 | .03445 | 35.469 | 6.8955 | -.00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **61.251** | **.11056** | **.15270** | **.02571** | **559.88** | **-.00060** | **-.00033** | **7.1646** | **-.00041** |
| Stddev | .098 | .00029 | .00171 | .00100 | .17 | .00098 | .00218 | .0082 | .00035 |
| %RSD | .15970 | .26560 | 1.1209 | 3.8863 | .03018 | 162.47 | 658.59 | .11405 | 85.532 |
| #1 | 61.181 | .11036 | .15391 | .02642 | 559.76 | .00009 | .00121 | 7.1588 | -.00066 |
| #2 | 61.320 | .11077 | .15149 | .02501 | 560.00 | -.00129 | -.00187 | 7.1703 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2335** | **.00524** | **.00273** | **-.00592** | **-.03649** | **-.00118** | **3.1707** | **.00151** |
| Stddev | .0113 | .00119 | .00075 | .00123 | .01535 | .00102 | .0122 | .00017 |
| %RSD | .91510 | 22.706 | 27.629 | 20.703 | 42.065 | 86.897 | .38479 | 11.348 |
| #1 | 1.2255 | .00440 | .00326 | -.00506 | -.04735 | -.00045 | 3.1793 | .00139 |
| #2 | 1.2415 | .00608 | .00220 | -.00679 | -.02564 | -.00190 | 3.1620 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6038.1** | **79061.** | **5745.2** |
| Stddev | 35.7 | 578. | 65.2 |
| %RSD | .59090 | .73087 | 1.1341 |
| #1 | 6063.4 | 78653. | 5699.1 |
| #2 | 6012.9 | 79470. | 5791.3 |

Sample Name: 280-41976-C-2-A Acquired: 5/14/2013 23:33:37 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **2.5894** | F **2.9605** | **-.00801** | **-.00183** | **.03670** | **-.00007** | **-.00466** | W **589.93** |
| Stddev | .00042 | .0080 | .0242 | .00254 | .00022 | .00004 | .00002 | .00031 | 6.43 |
| %RSD | 274.09 | .31085 | .81776 | 31.677 | 12.011 | .11035 | 24.879 | 6.7434 | 1.0903 |
| #1 | -.00014 | 2.5838 | 2.9776 | -.00622 | -.00198 | .03673 | -.00006 | -.00444 | 585.38 |
| #2 | .00045 | 2.5951 | 2.9434 | -.00981 | -.00167 | .03667 | -.00008 | -.00488 | 594.48 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | 1000.0 | | | | | | 500.00 |
| Low Limit | | | 3.0000 | | | | | | -.05000 |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00181** | **.00671** | **.00095** | **.21479** | **1.4030** | **6.9787** | **.02703** | **32.879** | **1.2875** |
| Stddev | .00018 | .00005 | .00004 | .00156 | .0121 | .0375 | .00042 | .085 | .0051 |
| %RSD | 9.7316 | .68138 | 4.0872 | .72773 | .86419 | .53671 | 1.5585 | .25983 | .39784 |
| #1 | .00194 | .00668 | .00092 | .21369 | 1.4115 | 7.0052 | .02673 | 32.818 | 1.2839 |
| #2 | .00169 | .00675 | .00098 | .21590 | 1.3944 | 6.9522 | .02732 | 32.939 | 1.2911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **75.960** | **.00580** | **.19622** | **.00249** | **569.54** | **.00063** | **.00175** | **.57198** |
| Stddev | .00016 | .774 | .00025 | .00071 | .00104 | .14 | .00015 | .00033 | .01922 |
| %RSD | 20.032 | 1.0191 | 4.2862 | .36428 | 41.628 | .02400 | 23.101 | 19.069 | 3.3602 |
| #1 | .00067 | 76.507 | .00598 | .19571 | .00323 | 569.45 | .00073 | .00152 | .55839 |
| #2 | .00089 | 75.413 | .00562 | .19672 | .00176 | 569.64 | .00053 | .00199 | .58557 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00140** | **1.3699** | **-.00114** | **.00422** | **-.00012** | **.01337** | **.00030** | **.13275** | **-.00014** |
| Stddev | .00082 | .0122 | .00005 | .00024 | .00074 | .00699 | .00045 | .00098 | .00023 |
| %RSD | 59.025 | .88946 | 4.8362 | 5.7953 | 605.70 | 52.246 | 149.53 | .73517 | 165.49 |
| #1 | -.00081 | 1.3785 | -.00110 | .00405 | -.00064 | .00843 | -.00002 | .13206 | .00002 |
| #2 | -.00198 | 1.3613 | -.00117 | .00440 | .00040 | .01831 | .00062 | .13344 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5778.7** | **76475.** | **5648.3** |
| Stddev | 61.5 | 108. | 22.4 |
| %RSD | 1.0642 | .14140 | .39688 |
| #1 | 5822.2 | 76399. | 5632.4 |
| #2 | 5735.2 | 76552. | 5664.1 |

Sample Name: 280-41976-C-3-A Acquired: 5/14/2013 23:36:39 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173467 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **1.6470** | **-.00149** | **-.00437** | **.02865** | **.00004** | **-.00387** | **15.909** | **.00073** |
| Stddev | .00045 | .0066 | .00039 | .00024 | .00014 | .00005 | .00272 | .047 | .00004 |
| %RSD | 223.40 | .40396 | 25.794 | 5.4027 | .48866 | 127.18 | 70.160 | .29521 | 5.6222 |
| #1 | .00012 | 1.6518 | -.00122 | -.00421 | .02875 | .00008 | -.00579 | 15.876 | .00070 |
| #2 | -.00052 | 1.6423 | -.00177 | -.00454 | .02856 | .00000 | -.00195 | 15.942 | .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00502** | **.00045** | **.15670** | **2.3480** | **1.3352** | **.00478** | **3.1745** | **.40993** | **-.00003** |
| Stddev | .00045 | .00005 | .00103 | .0026 | .0233 | .00201 | .0151 | .00286 | .00027 |
| %RSD | 8.9282 | 10.033 | .65793 | .11040 | 1.7421 | 42.105 | .47555 | .69770 | 871.66 |
| #1 | .00470 | .00042 | .15597 | 2.3461 | 1.3516 | .00336 | 3.1638 | .40790 | .00016 |
| #2 | .00533 | .00049 | .15743 | 2.3498 | 1.3187 | .00620 | 3.1852 | .41195 | -.00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7643** | **.00653** | **.20087** | **.00305** | **16.703** | **-.00207** | W **-.00510** | **5.3837** | **-.00059** |
| Stddev | .0095 | .00010 | .00512 | .00059 | .069 | .00108 | .00295 | .0144 | .00028 |
| %RSD | .53573 | 1.6062 | 2.5491 | 19.159 | .41436 | 52.274 | 57.721 | .26664 | 47.272 |
| #1 | 1.7710 | .00661 | .20449 | .00347 | 16.752 | -.00130 | -.00302 | 5.3939 | -.00078 |
| #2 | 1.7576 | .00646 | .19725 | .00264 | 16.655 | -.00283 | -.00719 | 5.3736 | -.00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 5.0000 | | |
| Low Limit | | | | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09617** | **.00148** | **.00494** | **-.00246** | **-.00927** | **.00092** | **.14978** | **.00162** |
| Stddev | .00011 | .00004 | .00024 | .00094 | .00019 | .00068 | .00108 | .00394 |
| %RSD | .11654 | 2.5779 | 4.7878 | 38.424 | 2.0108 | 73.729 | .71853 | 243.27 |
| #1 | .09609 | .00146 | .00477 | -.00313 | -.00940 | .00140 | .14902 | -.00117 |
| #2 | .09624 | .00151 | .00511 | -.00179 | -.00913 | .00044 | .15054 | .00440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6318.6** | **80174.** | **5774.5** |
| Stddev | 41.2 | 20. | 21.7 |
| %RSD | .65276 | .02520 | .37508 |
| #1 | 6289.4 | 80160. | 5789.8 |
| #2 | 6347.7 | 80189. | 5759.2 |

Sample Name: CCVH-2050355 Acquired: 5/14/2013 23:39:03 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00826** | **50.755** | **-.00400** | **-.00655** | **.00096** | **-.00004** | **1.0436** | **.03745** | **-.00090** | **.00238** | **.00007** | **.00158** | **51.575** |
| Stddev | .00004 | .118 | .00057 | .00030 | .00053 | .00007 | .0024 | .00070 | .00008 | .00034 | .00007 | .00024 | .058 |
| %RSD | .54332 | .23322 | 14.156 | 4.6435 | 55.246 | 191.02 | .22589 | 1.8638 | 8.4951 | 14.398 | 98.030 | 15.251 | .11285 |
| #1 | .00823 | 50.672 | -.00440 | -.00677 | .00134 | -.00009 | 1.0419 | .03696 | -.00095 | .00214 | .00002 | .00141 | 51.616 |
| #2 | .00829 | 50.839 | -.00360 | -.00634 | .00059 | .00001 | 1.0452 | .03794 | -.00085 | .00262 | .00011 | .00175 | 51.534 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00535** | **.00308** | **-.00872** | **-.00074** | **-.00178** | **259.39** | **.00114** | **-.00604** | **.00143** | **5.4564** | **-.00023** | **.00198** | **.03047** |
| Stddev | .02508 | .00097 | .00021 | .00001 | .00002 | .39 | .00042 | .00039 | .00054 | .0101 | .00038 | .00044 | .00274 |
| %RSD | 469.20 | 31.409 | 2.3870 | 1.3803 | 1.1357 | .14918 | 36.491 | 6.4344 | 37.989 | .18463 | 169.77 | 22.116 | 8.9893 |
| #1 | -.01239 | .00376 | -.00887 | -.00073 | -.00177 | 259.11 | .00085 | -.00632 | .00105 | 5.4635 | .00005 | .00228 | .02853 |
| #2 | .02308 | .00240 | -.00857 | -.00075 | -.00179 | 259.66 | .00144 | -.00577 | .00181 | 5.4492 | -.00050 | .00167 | .03240 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00022** | **5.2662** | **.00259** | **-.00227** | **10.307** | **-.00065** | **.00302** | **-.04227** |
| Stddev | .00073 | .00013 | .0013 | .00023 | .00040 | .019 | .00003 | .00005 | .00227 |
| %RSD | 206.71 | 58.135 | .02501 | 9.0458 | 17.606 | .18874 | 5.3767 | 1.5274 | 5.3706 |
| #1 | .00087 | .00031 | 5.2671 | .00276 | -.00198 | 10.293 | -.00067 | .00306 | -.04387 |
| #2 | -.00016 | .00013 | 5.2652 | .00243 | -.00255 | 10.321 | -.00062 | .00299 | -.04066 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6222.6** | **79761.** | **5826.1** |
| Stddev | 20.2 | 77. | 22.1 |
| %RSD | .32456 | .09699 | .37977 |
| #1 | 6208.3 | 79706. | 5841.7 |
| #2 | 6236.8 | 79816. | 5810.4 |

Sample Name: CCV-2050339 Acquired: 5/14/2013 23:41:32 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53447** | **.49057** | **1.0379** | **.50443** | **.51131** | **.48924** | **.00018** | **5.0813** | **.51826** | **.51961** | **.50198** | **.50974** | **2.4897** | **51.453** |
| Stddev | .00105 | .00030 | .0013 | .00015 | .00099 | .00056 | .00166 | .0122 | .00060 | .00068 | .00034 | .00146 | .0095 | .021 |
| %RSD | .19667 | .06185 | .12437 | .03029 | .19364 | .11494 | 933.90 | .24010 | .11546 | .13013 | .06760 | .28559 | .38181 | .04056 |
| #1 | .53522 | .49079 | 1.0388 | .50454 | .51201 | .48964 | .00135 | 5.0899 | .51869 | .52009 | .50222 | .50871 | 2.4964 | 51.438 |
| #2 | .53373 | .49036 | 1.0370 | .50432 | .51061 | .48884 | -.00100 | 5.0727 | .51784 | .51913 | .50174 | .51077 | 2.4830 | 51.467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0385** | **21.547** | **.53008** | **.49482** | **5.1981** | **.51440** | **1.0084** | **1.0326** | **.04418** | **1.0364** | **1.0342** | **4.9925** | **1.0024** | **.49333** |
| Stddev | .0049 | .030 | .00045 | .00091 | .0063 | .00090 | .0023 | .0029 | .00177 | .0005 | .0001 | .0196 | .0027 | .00044 |
| %RSD | .46684 | .13781 | .08537 | .18352 | .12151 | .17472 | .22510 | .27720 | 4.0093 | .05134 | .00823 | .39312 | .27034 | .08844 |
| #1 | 1.0420 | 21.526 | .52976 | .49418 | 5.2026 | .51377 | 1.0068 | 1.0306 | .04543 | 1.0360 | 1.0343 | 4.9786 | 1.0005 | .49364 |
| #2 | 1.0351 | 21.568 | .53040 | .49546 | 5.1936 | .51504 | 1.0100 | 1.0346 | .04293 | 1.0367 | 1.0342 | 5.0064 | 1.0044 | .49302 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.51700** | **.99523** | **.02514** | **.51480** | **.54877** | **.50456** |
| Stddev | .00043 | .00057 | .00242 | .00255 | .00002 | .00082 | .00012 |
| %RSD | 217.18 | .10953 | .24310 | 10.150 | .00309 | .15032 | .02363 |
| #1 | .00050 | .51660 | .99351 | .02695 | .51481 | .54935 | .50465 |
| #2 | -.00011 | .51740 | .99694 | .02334 | .51478 | .54818 | .50448 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6242.1** | **79993.** | **5768.1** |
| Stddev | 9.6 | 122. | 26.6 |
| %RSD | .15430 | .15205 | .46058 |
| #1 | 6235.2 | 80079. | 5786.8 |
| #2 | 6248.9 | 79907. | 5749.3 |

Sample Name: CCB Acquired: 5/14/2013 23:43:45 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **-.00065** | **-.00046** | F **-.00699** | **.00038** | **-.00000** | **-.00088** | **-.00308** | **-.00003** | **.00001** | **.00011** |
| Stddev | .00054 | .00001 | .00169 | .00015 | .00008 | .00013 | .00015 | .00431 | .00006 | .00015 | .00006 |
| %RSD | 404.01 | 1.5526 | 367.33 | 2.2038 | 20.266 | 8874.5 | 17.411 | 140.10 | 196.02 | 2045.1 | 53.687 |
| #1 | -.00025 | -.00066 | -.00165 | -.00688 | .00033 | .00009 | -.00099 | -.00003 | -.00008 | -.00010 | .00007 |
| #2 | .00051 | -.00064 | .00073 | -.00710 | .00044 | -.00009 | -.00077 | -.00612 | .00001 | .00012 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **-.00027** | **.00639** | W **.00283** | **.00084** | **-.00004** | **.00003** | F **.21441** | **-.00030** | F **-.01094** | **.00021** |
| Stddev | .00045 | .00006 | .00794 | .00037 | .00036 | .00008 | .00008 | .00498 | .00014 | .00298 | .00162 |
| %RSD | 644.30 | 22.613 | 124.14 | 13.225 | 42.149 | 198.36 | 250.92 | 2.3226 | 46.985 | 27.258 | 786.27 |
| #1 | .00025 | -.00023 | .01200 | .00310 | .00059 | -.00010 | -.00003 | .21088 | -.00020 | -.00883 | -.00094 |
| #2 | -.00039 | -.00032 | .00078 | .00257 | .00110 | .00002 | .00009 | .21793 | -.00040 | -.01305 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | .01000 | |
| Low Limit | | | | -.00261 | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03100** | **-.00122** | **-.00058** | **.02068** | **-.00026** | **.00010** | **-.00084** | **-.00009** | **-.00086** | **.02854** | **.00003** |
| Stddev | .00050 | .00007 | .00152 | .01084 | .00009 | .00016 | .00007 | .00009 | .00131 | .00004 | .00023 |
| %RSD | 1.6029 | 6.1159 | 264.15 | 52.414 | 34.974 | 156.92 | 8.2878 | 105.78 | 153.04 | .15147 | 835.71 |
| #1 | .03136 | -.00127 | .00050 | .01302 | -.00020 | .00021 | -.00079 | -.00002 | -.00178 | .02851 | .00019 |
| #2 | .03065 | -.00117 | -.00165 | .02835 | -.00032 | -.00001 | -.00088 | -.00016 | .00007 | .02857 | -.00013 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00257** | **.00035** |
| Stddev | .00017 | .00243 |
| %RSD | 6.7898 | 695.64 |
| #1 | .00269 | .00207 |
| #2 | .00244 | -.00137 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6269.3** | **81202.** | **5777.8** |
| Stddev | 2.3 | 362. | 26.4 |
| %RSD | .03718 | .44552 | .45764 |
| #1 | 6270.9 | 80946. | 5759.1 |
| #2 | 6267.6 | 81458. | 5796.5 |

Sample Name: CCVL2049857 Acquired: 5/14/2013 23:46:14 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01065** | **.10034** | **.01503** | **.09268** | **.01081** | **.00092** | **.10641** | **.20305** | **.00539** | **.01113** | **.01024** |
| Stddev | .00040 | .00020 | .00026 | .00010 | .00000 | .00007 | .00001 | .00223 | .00003 | .00011 | .00013 |
| %RSD | 3.7844 | .19711 | 1.7291 | .10650 | .02526 | 8.0948 | .00858 | 1.0966 | .47204 | .98573 | 1.2467 |
| #1 | .01036 | .10020 | .01484 | .09261 | .01080 | .00087 | .10642 | .20462 | .00537 | .01105 | .01015 |
| #2 | .01093 | .10048 | .01521 | .09275 | .01081 | .00097 | .10641 | .20147 | .00541 | .01121 | .01033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01620** | **.10415** | **3.1357** | W **.01240** | **.22294** | **.01100** | **.01962** | W **1.2185** | **.04249** | **3.0138** | W **.01152** |
| Stddev | .00017 | .00249 | .0717 | .00078 | .00016 | .00003 | .00047 | .0036 | .00020 | .0011 | .00073 |
| %RSD | 1.0439 | 2.3896 | 2.2881 | 6.2671 | .07284 | .25861 | 2.3958 | .29195 | .48100 | .03528 | 6.3422 |
| #1 | .01632 | .10239 | 3.1864 | .01295 | .22305 | .01098 | .01929 | 1.2160 | .04264 | 3.0145 | .01203 |
| #2 | .01608 | .10591 | 3.0849 | .01185 | .22282 | .01102 | .01995 | 1.2210 | .04235 | 3.0130 | .01100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | 1.0000 | | | .00900 |
| Range | | | | 20.000% | | | | 20.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02410** | **.00818** | W **.01171** | **.51522** | **.10162** | **.01007** | **.01570** | **.01035** | **.01500** | W **.07580** | **.00982** |
| Stddev | .00184 | .00079 | .00250 | .00126 | .00024 | .00007 | .00051 | .00012 | .00061 | .01665 | .00014 |
| %RSD | 7.6508 | 9.6871 | 21.348 | .24400 | .23599 | .71293 | 3.2416 | 1.2035 | 4.0431 | 21.968 | 1.4374 |
| #1 | .02280 | .00874 | .01348 | .51433 | .10145 | .01012 | .01606 | .01026 | .01457 | .08758 | .00972 |
| #2 | .02541 | .00762 | .00994 | .51611 | .10179 | .01001 | .01534 | .01043 | .01543 | .06403 | .00992 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | -20.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02444** | **.01579** |
| Stddev | .00039 | .00159 |
| %RSD | 1.6082 | 10.099 |
| #1 | .02416 | .01691 |
| #2 | .02472 | .01466 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6363.2** | **83389.** | **5930.6** |
| Stddev | 12.2 | 7. | 37.3 |
| %RSD | .19181 | .00824 | .62938 |
| #1 | 6371.8 | 83394. | 5904.2 |
| #2 | 6354.5 | 83384. | 5957.0 |

Sample Name: MB 280-173385/1-A Acquired: 5/14/2013 23:51:54 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173861 SOIL 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **.00481** | **.00010** | W **-.00744** | **.00080** | **-.00004** | **-.00234** | **.05257** | **.00002** |
| Stddev | .00008 | .00015 | .00408 | .00005 | .00005 | .00004 | .00011 | .00033 | .00006 |
| %RSD | 44.371 | 3.1846 | 4072.5 | .60549 | 5.7629 | 113.86 | 4.8047 | .62816 | 346.73 |
| #1 | -.00013 | .00470 | .00298 | -.00747 | .00083 | -.00007 | -.00242 | .05234 | -.00003 |
| #2 | -.00024 | .00491 | -.00278 | -.00741 | .00076 | -.00001 | -.00226 | .05280 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **-.00000** | **.00213** | **.01682** | **-.00323** | **.00431** | **.00971** | **.00030** | **-.00001** |
| Stddev | .00019 | .00007 | .00032 | .00119 | .00613 | .00091 | .00067 | .00004 | .00024 |
| %RSD | 75.281 | 6728.5 | 14.878 | 7.0549 | 189.67 | 21.044 | 6.8542 | 14.740 | 1595.3 |
| #1 | .00012 | .00005 | .00190 | .01598 | .00110 | .00496 | .01018 | .00034 | .00015 |
| #2 | .00039 | -.00005 | .00235 | .01766 | -.00757 | .00367 | .00924 | .00027 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43786** | **.00027** | F **.05540** | **.00149** | **.06384** | **-.00067** | **.00115** | **.01540** | **.00656** |
| Stddev | .02045 | .00005 | .00015 | .00014 | .00265 | .00027 | .00199 | .00385 | .00092 |
| %RSD | 4.6695 | 17.587 | .26682 | 9.6829 | 4.1450 | 40.940 | 172.89 | 24.979 | 14.067 |
| #1 | .45232 | .00024 | .05551 | .00159 | .06571 | -.00086 | -.00026 | .01268 | .00591 |
| #2 | .42340 | .00031 | .05530 | .00139 | .06197 | -.00048 | .00256 | .01811 | .00722 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00036** | **.00002** | **-.00097** | **.02564** | **-.00010** | **.00340** | **-.00037** |
| Stddev | .00006 | .00073 | .00006 | .00066 | .02555 | .00050 | .00018 | .00215 |
| %RSD | 94.382 | 200.88 | 288.13 | 68.355 | 99.658 | 482.33 | 5.2038 | 581.85 |
| #1 | .00011 | .00087 | -.00002 | -.00144 | .04371 | -.00046 | .00328 | -.00189 |
| #2 | .00002 | -.00015 | .00006 | -.00050 | .00757 | .00025 | .00353 | .00115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6471.2** | **84425.** | **5999.0** |
| Stddev | 1.1 | 155. | 18.2 |
| %RSD | .01772 | .18398 | .30418 |
| #1 | 6472.0 | 84315. | 6011.9 |
| #2 | 6470.4 | 84534. | 5986.1 |

Sample Name: LCS 280-173385/2-A Acquired: 5/14/2013 23:54:22 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05596** | **1.8785** | **1.0327** | **1.0138** | **2.0471** | **.04892** | **2.0801** | **49.871** | **.10550** |
| Stddev | .00059 | .0018 | .0019 | .0025 | .0024 | .00025 | .0106 | .169 | .00025 |
| %RSD | 1.0548 | .09396 | .18687 | .24965 | .11736 | .50807 | .50785 | .33920 | .23534 |
| #1 | .05554 | 1.8798 | 1.0341 | 1.0156 | 2.0454 | .04874 | 2.0876 | 49.751 | .10567 |
| #2 | .05638 | 1.8773 | 1.0313 | 1.0120 | 2.0488 | .04909 | 2.0726 | 49.990 | .10532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50661** | **.20066** | **.25669** | **.99142** | **51.426** | **1.0213** | **52.569** | **.51294** | **.98609** |
| Stddev | .00068 | .00058 | .00032 | .00087 | .062 | .0019 | .065 | .00060 | .00124 |
| %RSD | .13365 | .28741 | .12545 | .08794 | .12110 | .19111 | .12300 | .11647 | .12553 |
| #1 | .50709 | .20107 | .25692 | .99204 | 51.382 | 1.0199 | 52.614 | .51336 | .98696 |
| #2 | .50613 | .20025 | .25646 | .99080 | 51.470 | 1.0227 | 52.523 | .51251 | .98521 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.696** | **.50086** | **10.488** | **.50316** | **.05138** | **.51618** | **2.0567** | **1.4996** | **1.9786** |
| Stddev | .129 | .00043 | .020 | .00321 | .00487 | .00253 | .0084 | .0120 | .0081 |
| %RSD | .24497 | .08609 | .18694 | .63810 | 9.4695 | .49069 | .40847 | .80255 | .40774 |
| #1 | 52.787 | .50116 | 10.502 | .50543 | .05482 | .51797 | 2.0626 | 1.4911 | 1.9843 |
| #2 | 52.604 | .50055 | 10.475 | .50089 | .04794 | .51439 | 2.0507 | 1.5081 | 1.9729 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98679** | **1.0180** | **1.0094** | **1.9523** | **2.0375** | **.50952** | **.52935** | **.48806** |
| Stddev | .00137 | .0008 | .0007 | .0075 | .0217 | .00030 | .00371 | .00136 |
| %RSD | .13851 | .07962 | .06594 | .38140 | 1.0631 | .05959 | .70120 | .27909 |
| #1 | .98582 | 1.0186 | 1.0098 | 1.9576 | 2.0528 | .50973 | .53197 | .48709 |
| #2 | .98775 | 1.0175 | 1.0089 | 1.9470 | 2.0222 | .50930 | .52672 | .48902 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6248.4** | **82220.** | **5889.7** |
| Stddev | 3.6 | 424. | 30.5 |
| %RSD | .05752 | .51588 | .51708 |
| #1 | 6251.0 | 81920. | 5911.3 |
| #2 | 6245.9 | 82520. | 5868.2 |

Sample Name: 280-41964-A-6-D Acquired: 5/14/2013 23:56:35 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00062** | **183.55** | **.02137** | **.03115** | **2.7296** | **.01298** | **-.00324** | **57.520** | **.00183** |
| Stddev | .00019 | .80 | .00058 | .00023 | .0119 | .00012 | .00337 | .226 | .00010 |
| %RSD | 31.277 | .43344 | 2.6976 | .73257 | .43588 | .93689 | 104.20 | .39250 | 5.3878 |
| #1 | -.00048 | 182.98 | .02177 | .03099 | 2.7212 | .01290 | -.00562 | 57.360 | .00176 |
| #2 | -.00076 | 184.11 | .02096 | .03131 | 2.7380 | .01307 | -.00085 | 57.680 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15556** | **.25363** | **.35434** | **277.51** | **23.494** | **.18017** | **43.036** | **5.3477** | **.00143** |
| Stddev | .00002 | .00029 | .00042 | .75 | .097 | .00190 | .034 | .0003 | .00009 |
| %RSD | .01211 | .11277 | .11910 | .26915 | .41230 | 1.0548 | .07968 | .00579 | 6.1639 |
| #1 | .15557 | .25384 | .35464 | 276.98 | 23.425 | .17882 | 43.012 | 5.3479 | .00149 |
| #2 | .15554 | .25343 | .35404 | 278.04 | 23.562 | .18151 | 43.060 | 5.3475 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.221** | **.18279** | **2.8847** | **.12888** | **1.7211** | **-.00857** | **.00339** | **2.5040** | **.01331** |
| Stddev | .041 | .00066 | .0053 | .00153 | .0052 | .00133 | .00078 | .0071 | .00004 |
| %RSD | .10922 | .36002 | .18498 | 1.1848 | .30257 | 15.518 | 23.091 | .28423 | .28396 |
| #1 | 37.250 | .18232 | 2.8809 | .12995 | 1.7248 | -.00951 | .00395 | 2.4989 | .01333 |
| #2 | 37.193 | .18325 | 2.8885 | .12780 | 1.7174 | -.00763 | .00284 | 2.5090 | .01328 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68747** | **.10384** | **1.0680** | **-.00831** | F **-.16511** | **.38875** | **.79072** | **.03144** |
| Stddev | .00130 | .00018 | .0019 | .00029 | .04099 | .00082 | .00370 | .00090 |
| %RSD | .18979 | .17621 | .17495 | 3.5282 | 24.824 | .21160 | .46811 | 2.8607 |
| #1 | .68655 | .10371 | 1.0667 | -.00851 | -.19409 | .38816 | .78810 | .03208 |
| #2 | .68840 | .10397 | 1.0694 | -.00810 | -.13613 | .38933 | .79334 | .03080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7086.7** | **90568.** | **6732.0** |
| Stddev | 3.0 | 62. | 5.2 |
| %RSD | .04257 | .06837 | .07705 |
| #1 | 7088.8 | 90612. | 6728.4 |
| #2 | 7084.5 | 90525. | 6735.7 |

Sample Name: sd 280-41964-A-6-D@5 Acquired: 5/14/2013 23:59:03 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **41.327** | **.00396** | **.00153** | **.60731** | **.00289** | **-.00378** | **13.033** | **.00035** |
| Stddev | .00009 | .097 | .00271 | .00061 | .00092 | .00004 | .00062 | .008 | .00004 |
| %RSD | 15.934 | .23391 | 68.450 | 39.804 | .15084 | 1.4809 | 16.424 | .06417 | 10.681 |
| #1 | -.00052 | 41.396 | .00588 | .00110 | .60796 | .00292 | -.00334 | 13.039 | .00038 |
| #2 | -.00065 | 41.259 | .00204 | .00196 | .60666 | .00286 | -.00422 | 13.027 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03616** | **.05742** | **.07864** | **63.891** | **5.1981** | **.04460** | **9.7373** | **1.2238** | **.00025** |
| Stddev | .00010 | .00044 | .00025 | .248 | .0532 | .00035 | .0394 | .0044 | .00006 |
| %RSD | .28934 | .76949 | .32087 | .38876 | 1.0237 | .79333 | .40450 | .36116 | 24.604 |
| #1 | .03609 | .05710 | .07846 | 64.067 | 5.2357 | .04485 | 9.7094 | 1.2207 | .00020 |
| #2 | .03624 | .05773 | .07881 | 63.715 | 5.1604 | .04435 | 9.7651 | 1.2269 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.8884** | **.04175** | **.63043** | **.02955** | **.38853** | **-.00224** | **.00222** | **.58790** | **.00210** |
| Stddev | .0447 | .00031 | .00061 | .00029 | .00456 | .00017 | .00382 | .00136 | .00008 |
| %RSD | .56680 | .74369 | .09731 | .99058 | 1.1725 | 7.7553 | 172.00 | .23189 | 3.8958 |
| #1 | 7.9200 | .04197 | .63000 | .02976 | .38531 | -.00236 | -.00048 | .58886 | .00215 |
| #2 | 7.8568 | .04153 | .63087 | .02934 | .39175 | -.00212 | .00492 | .58694 | .00204 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15578** | **.02334** | **.23827** | **-.00206** | **-.02033** | **.08689** | **.18402** | **.00878** |
| Stddev | .00093 | .00056 | .00092 | .00142 | .06166 | .00046 | .00050 | .00191 |
| %RSD | .59737 | 2.3976 | .38545 | 68.793 | 303.26 | .53183 | .27087 | 21.758 |
| #1 | .15644 | .02374 | .23762 | -.00307 | -.06394 | .08656 | .18367 | .00743 |
| #2 | .15512 | .02295 | .23892 | -.00106 | .02327 | .08722 | .18437 | .01013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6518.2** | **83493.** | **6050.3** |
| Stddev | .7 | 557. | 14.7 |
| %RSD | .01070 | .66719 | .24253 |
| #1 | 6518.7 | 83887. | 6039.9 |
| #2 | 6517.7 | 83099. | 6060.7 |

Sample Name: 280-41964-A-6-E MS  Acquired: 5/15/2013 0:01:26  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04972** | **283.38** | **.91045** | **.72570** | **4.4463** | **.05657** | **1.8058** | **86.433** | **.09385** |
| Stddev | .00033 | .93 | .00073 | .00066 | .0084 | .00034 | .0019 | .259 | .00003 |
| %RSD | .66825 | .32674 | .07990 | .09111 | .18834 | .60227 | .10603 | .30020 | .03638 |
| #1 | .04949 | 284.03 | .91097 | .72524 | 4.4523 | .05682 | 1.8072 | 86.617 | .09387 |
| #2 | .04996 | 282.72 | .90994 | .72617 | 4.4404 | .05633 | 1.8045 | 86.250 | .09382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55870** | **.46783** | **.56312** | **298.82** | **75.654** | **1.1187** | **94.500** | **5.3754** | **.79565** |
| Stddev | .00084 | .00025 | .00123 | 1.36 | .250 | .0050 | .078 | .0104 | .00001 |
| %RSD | .14998 | .05425 | .21913 | .45344 | .32997 | .44298 | .08260 | .19372 | .00071 |
| #1 | .55929 | .46765 | .56399 | 299.78 | 75.831 | 1.1222 | 94.556 | 5.3828 | .79565 |
| #2 | .55810 | .46801 | .56225 | 297.86 | 75.478 | 1.1152 | 94.445 | 5.3680 | .79566 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **76.684** | **.61757** | **11.919** | **.53131** | **1.2512** | **.18984** | **1.7809** | **3.9278** | **1.6381** |
| Stddev | .380 | .00019 | .001 | .00035 | .0076 | .00397 | .0046 | .0005 | .0027 |
| %RSD | .49523 | .03089 | .00920 | .06525 | .60550 | 2.0918 | .26072 | .01239 | .16679 |
| #1 | 76.415 | .61770 | 11.920 | .53155 | 1.2459 | .18703 | 1.7842 | 3.9275 | 1.6400 |
| #2 | 76.952 | .61744 | 11.918 | .53106 | 1.2566 | .19265 | 1.7776 | 3.9282 | 1.6362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3765** | **1.0005** | **2.6680** | **1.5684** | **1.6669** | **.98461** | **1.2826** | **.41724** |
| Stddev | .0053 | .0031 | .0043 | .0007 | .0095 | .00051 | .0000 | .00102 |
| %RSD | .38228 | .30829 | .16178 | .04376 | .56804 | .05130 | .00341 | .24472 |
| #1 | 1.3802 | .99833 | 2.6710 | 1.5689 | 1.6603 | .98425 | 1.2825 | .41796 |
| #2 | 1.3728 | 1.0027 | 2.6649 | 1.5680 | 1.6736 | .98497 | 1.2826 | .41652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6879.5** | **87455.** | **6572.9** |
| Stddev | 5.8 | 79. | .5 |
| %RSD | .08451 | .09049 | .00809 |
| #1 | 6875.4 | 87399. | 6572.5 |
| #2 | 6883.6 | 87511. | 6573.3 |

Sample Name: 280-41964-A-6-F MSD  Acquired: 5/15/2013 0:04:22  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04970** | **285.06** | **.92539** | **.75079** | **4.4890** | **.05682** | **1.8203** | **92.836** | **.09444** |
| Stddev | .00054 | 1.26 | .00161 | .00135 | .0098 | .00009 | .0025 | .307 | .00006 |
| %RSD | 1.0797 | .44066 | .17439 | .17925 | .21737 | .16065 | .13968 | .33017 | .06609 |
| #1 | .04932 | 285.95 | .92425 | .74983 | 4.4959 | .05689 | 1.8221 | 93.053 | .09448 |
| #2 | .05008 | 284.17 | .92653 | .75174 | 4.4821 | .05676 | 1.8185 | 92.619 | .09439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55904** | **.48574** | **.57983** | **296.59** | **76.600** | **1.1209** | **94.064** | **5.5966** | **.80240** |
| Stddev | .00107 | .00043 | .00084 | 1.33 | .207 | .0010 | .050 | .1189 | .00079 |
| %RSD | .19197 | .08750 | .14406 | .44970 | .26988 | .08434 | .05343 | 2.1250 | .09852 |
| #1 | .55828 | .48604 | .58042 | 297.53 | 76.746 | 1.1215 | 94.028 | 5.5125 | .80296 |
| #2 | .55979 | .48544 | .57923 | 295.65 | 76.454 | 1.1202 | 94.100 | 5.6807 | .80184 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **77.696** | **.61678** | **11.705** | **.54006** | **1.3455** | **.19064** | **1.7945** | **3.3480** | **1.6468** |
| Stddev | .098 | .00009 | .004 | .00120 | .0012 | .00049 | .0034 | .0650 | .0007 |
| %RSD | .12658 | .01482 | .03842 | .22282 | .08987 | .25553 | .19047 | 1.9425 | .04404 |
| #1 | 77.626 | .61685 | 11.708 | .54091 | 1.3446 | .19029 | 1.7969 | 3.3020 | 1.6473 |
| #2 | 77.765 | .61672 | 11.702 | .53921 | 1.3464 | .19098 | 1.7920 | 3.3939 | 1.6463 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4207** | **1.0039** | **2.5544** | **1.5709** | **1.5726** | **1.0071** | **1.2738** | **.41869** |
| Stddev | .0027 | .0023 | .0024 | .0015 | .0074 | .0001 | .0032 | .00193 |
| %RSD | .19312 | .22997 | .09405 | .09615 | .46865 | .00894 | .25528 | .46069 |
| #1 | 1.4226 | 1.0022 | 2.5527 | 1.5719 | 1.5674 | 1.0070 | 1.2715 | .42006 |
| #2 | 1.4188 | 1.0055 | 2.5561 | 1.5698 | 1.5779 | 1.0071 | 1.2761 | .41733 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6898.4** | **88006.** | **6599.6** |
| Stddev | 2.2 | 471. | 43.2 |
| %RSD | .03121 | .53512 | .65425 |
| #1 | 6899.9 | 88339. | 6569.1 |
| #2 | 6896.9 | 87673. | 6630.1 |

Sample Name: 280-41964-A-12-B Acquired: 5/15/2013 0:07:17 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **96.638** | **.02313** | **.03862** | **3.1642** | **.00710** | **-.00244** | **68.498** | **.00154** |
| Stddev | .00006 | .087 | .00011 | .00101 | .0055 | .00009 | .00039 | .045 | .00014 |
| %RSD | 80.004 | .09033 | .48003 | 2.6122 | .17265 | 1.2188 | 16.122 | .06505 | 8.8840 |
| #1 | .00003 | 96.577 | .02321 | .03791 | 3.1603 | .00716 | -.00271 | 68.467 | .00145 |
| #2 | .00013 | 96.700 | .02305 | .03933 | 3.1680 | .00704 | -.00216 | 68.530 | .00164 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06948** | **.10428** | **.52143** | **145.40** | **20.071** | **.15840** | **25.120** | **2.5168** | **.00480** |
| Stddev | .00034 | .00036 | .00146 | .12 | .010 | .00152 | .080 | .0110 | .00009 |
| %RSD | .49143 | .34197 | .27944 | .08287 | .05089 | .95943 | .31774 | .43519 | 1.7771 |
| #1 | .06923 | .10403 | .52040 | 145.49 | 20.064 | .15947 | 25.063 | 2.5091 | .00474 |
| #2 | .06972 | .10454 | .52246 | 145.32 | 20.078 | .15732 | 25.176 | 2.5246 | .00486 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.585** | **.10319** | **1.9310** | **.16447** | **2.0486** | **-.00284** | **-.00226** | **2.3616** | **.00947** |
| Stddev | .127 | .00016 | .0004 | .00051 | .0048 | .00182 | .00278 | .0313 | .00017 |
| %RSD | .47791 | .15916 | .02171 | .30815 | .23249 | 64.322 | 123.11 | 1.3266 | 1.7576 |
| #1 | 26.675 | .10307 | 1.9307 | .16412 | 2.0453 | -.00155 | -.00029 | 2.3838 | .00935 |
| #2 | 26.495 | .10331 | 1.9313 | .16483 | 2.0520 | -.00413 | -.00422 | 2.3395 | .00958 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2904** | **.06318** | **.75763** | **-.00315** | **-.04498** | **.19153** | **.53418** | **.04969** |
| Stddev | .0001 | .00112 | .00433 | .00199 | .00536 | .00153 | .00318 | .00128 |
| %RSD | .00945 | 1.7798 | .57121 | 63.104 | 11.920 | .79804 | .59512 | 2.5667 |
| #1 | 1.2904 | .06238 | .75457 | -.00175 | -.04119 | .19045 | .53194 | .04878 |
| #2 | 1.2905 | .06397 | .76069 | -.00456 | -.04877 | .19261 | .53643 | .05059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6703.6** | **85687.** | **6269.2** |
| Stddev | 3.2 | 108. | 23.9 |
| %RSD | .04731 | .12569 | .38197 |
| #1 | 6701.4 | 85763. | 6252.3 |
| #2 | 6705.8 | 85611. | 6286.2 |

Sample Name: 280-41964-A-18-B Acquired: 5/15/2013 0:09:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00095** | **157.50** | **.02291** | **.03132** | **3.4447** | **.01063** | **-.00435** | **150.64** | **.00185** |
| Stddev | .00007 | .58 | .00071 | .00027 | .0135 | .00003 | .00147 | .59 | .00003 |
| %RSD | 7.5955 | .36652 | 3.1212 | .86162 | .39263 | .28463 | 33.807 | .39454 | 1.7949 |
| #1 | -.00090 | 157.09 | .02341 | .03113 | 3.4352 | .01065 | -.00539 | 150.22 | .00187 |
| #2 | -.00100 | 157.91 | .02240 | .03151 | 3.4543 | .01061 | -.00331 | 151.06 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12721** | **.23284** | **.45335** | **274.43** | **20.011** | **.20739** | **49.594** | **4.3802** | **.00642** |
| Stddev | .00007 | .00034 | .00008 | .53 | .070 | .00009 | .055 | .0429 | .00023 |
| %RSD | .05477 | .14727 | .01657 | .19360 | .35050 | .04123 | .11025 | .97884 | 3.6237 |
| #1 | .12726 | .23308 | .45341 | 274.05 | 19.962 | .20733 | 49.555 | 4.3499 | .00625 |
| #2 | .12716 | .23260 | .45330 | 274.80 | 20.061 | .20745 | 49.633 | 4.4105 | .00658 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **32.023** | **.19056** | **2.7368** | **.17382** | **2.5085** | **-.00602** | **.00457** | **2.8528** | **.01318** |
| Stddev | .224 | .00034 | .0005 | .00045 | .0020 | .00035 | .00124 | .0356 | .00005 |
| %RSD | .70081 | .17672 | .01785 | .26031 | .07922 | 5.8784 | 27.196 | 1.2492 | .40575 |
| #1 | 31.864 | .19032 | 2.7365 | .17414 | 2.5071 | -.00627 | .00545 | 2.8276 | .01321 |
| #2 | 32.181 | .19080 | 2.7372 | .17350 | 2.5099 | -.00577 | .00369 | 2.8780 | .01314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4009** | **.09383** | **1.1844** | **-.00659** | W **-.08574** | **.34592** | **.75895** | **.04189** |
| Stddev | .0056 | .00021 | .0018 | .00032 | .00825 | .00045 | .00167 | .00093 |
| %RSD | .39697 | .22332 | .14858 | 4.7895 | 9.6273 | .13009 | .22011 | 2.2165 |
| #1 | 1.3970 | .09368 | 1.1832 | -.00637 | -.09158 | .34624 | .75777 | .04255 |
| #2 | 1.4048 | .09398 | 1.1857 | -.00682 | -.07990 | .34560 | .76013 | .04124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6767.5** | **86795.** | **6355.8** |
| Stddev | 19.0 | 97. | 19.7 |
| %RSD | .28041 | .11194 | .31012 |
| #1 | 6754.1 | 86864. | 6369.7 |
| #2 | 6781.0 | 86727. | 6341.8 |

Sample Name: 280-41964-A-24-B Acquired: 5/15/2013 0:12:04 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173385 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00077** | **148.49** | **.01961** | **.03088** | **3.7390** | **.01307** | **-.00511** | **356.23** | **.00140** |
| Stddev | .00054 | .07 | .00057 | .00004 | .0042 | .00009 | .00118 | 1.98 | .00012 |
| %RSD | 69.880 | .04923 | 2.9101 | .13701 | .11174 | .71542 | 23.175 | .55524 | 8.6063 |
| #1 | -.00115 | 148.43 | .02001 | .03091 | 3.7360 | .01314 | -.00594 | 357.63 | .00149 |
| #2 | -.00039 | 148.54 | .01921 | .03085 | 3.7420 | .01301 | -.00427 | 354.84 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10714** | **.22645** | **.35644** | **209.03** | **16.323** | **.22427** | **30.114** | **3.1525** | **.02240** |
| Stddev | .00051 | .00067 | .00140 | .47 | .049 | .00036 | .130 | .0119 | .00020 |
| %RSD | .47624 | .29573 | .39378 | .22557 | .30186 | .16157 | .43092 | .37778 | .87815 |
| #1 | .10750 | .22692 | .35545 | 209.37 | 16.288 | .22402 | 30.022 | 3.1440 | .02254 |
| #2 | .10678 | .22598 | .35744 | 208.70 | 16.358 | .22453 | 30.205 | 3.1609 | .02226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **43.575** | **.14605** | **2.7656** | **.17312** | **1.1208** | **-.00239** | **-.00160** | **1.8285** | **.01484** |
| Stddev | .118 | .00018 | .0006 | .00059 | .0035 | .00148 | .00379 | .0109 | .00066 |
| %RSD | .27141 | .12268 | .02274 | .33956 | .31571 | 62.125 | 237.23 | .59440 | 4.4562 |
| #1 | 43.491 | .14618 | 2.7661 | .17271 | 1.1233 | -.00344 | .00108 | 1.8362 | .01531 |
| #2 | 43.659 | .14593 | 2.7652 | .17354 | 1.1183 | -.00134 | -.00428 | 1.8208 | .01438 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2330** | **.08193** | **.87593** | **-.00422** | W **-.08934** | **.31632** | **.61598** | **.09574** |
| Stddev | .0026 | .00183 | .00508 | .00128 | .03277 | .00128 | .00131 | .00211 |
| %RSD | .11465 | 2.2328 | .57961 | 30.312 | 36.681 | .40617 | .21318 | 2.2057 |
| #1 | 2.2348 | .08064 | .87234 | -.00332 | -.11252 | .31541 | .61506 | .09424 |
| #2 | 2.2311 | .08323 | .87952 | -.00513 | -.06617 | .31722 | .61691 | .09723 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6414.2** | **82757.** | **6205.8** |
| Stddev | 20.9 | 123. | 40.0 |
| %RSD | .32575 | .14826 | .64415 |
| #1 | 6399.4 | 82670. | 6177.5 |
| #2 | 6428.9 | 82844. | 6234.1 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 0:14:27 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00815** | **50.158** | **-.00310** | **-.00547** | **.00085** | **.00001** | **1.0448** | **.03121** | **-.00088** | **.00223** | **-.00004** | **.00334** | **50.877** |
| Stddev | .00009 | .352 | .00111 | .00012 | .00033 | .00001 | .0025 | .00740 | .00001 | .00015 | .00008 | .00045 | .053 |
| %RSD | 1.0715 | .70121 | 35.808 | 2.2639 | 39.160 | 76.083 | .23979 | 23.712 | 1.7015 | 6.6898 | 197.19 | 13.466 | .10498 |
| #1 | .00821 | 50.407 | -.00389 | -.00538 | .00109 | .00002 | 1.0466 | .03644 | -.00087 | .00212 | .00002 | .00302 | 50.839 |
| #2 | .00809 | 49.910 | -.00232 | -.00556 | .00062 | .00000 | 1.0431 | .02598 | -.00089 | .00233 | -.00009 | .00365 | 50.915 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01622** | **.00441** | **-.01218** | **-.00042** | **-.00173** | **259.72** | **.00113** | **-.00720** | **.00165** | **5.4612** | **-.00264** | **.00162** | **.01487** |
| Stddev | .04288 | .00087 | .00037 | .00001 | .00006 | 1.46 | .00017 | .00180 | .00137 | .0172 | .00033 | .00247 | .01975 |
| %RSD | 264.36 | 19.758 | 3.0397 | 1.9417 | 3.3492 | .56207 | 14.786 | 25.061 | 83.130 | .31499 | 12.547 | 152.28 | 132.81 |
| #1 | -.01410 | .00379 | -.01244 | -.00043 | -.00177 | 260.75 | .00125 | -.00593 | .00262 | 5.4734 | -.00287 | .00337 | .02884 |
| #2 | .04654 | .00503 | -.01192 | -.00042 | -.00169 | 258.69 | .00102 | -.00848 | .00068 | 5.4490 | -.00240 | -.00012 | .00091 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.00045** | **5.1238** | **.00178** | **-.00338** | **10.229** | **-.00015** | **.00325** | **-.03231** |
| Stddev | .00086 | .00003 | .0222 | .00005 | .00013 | .078 | .00026 | .00022 | .00077 |
| %RSD | 108.62 | 6.3239 | .43356 | 2.9500 | 3.7555 | .76037 | 171.32 | 6.6653 | 2.3735 |
| #1 | .00018 | .00043 | 5.1081 | .00174 | -.00329 | 10.174 | .00003 | .00310 | -.03177 |
| #2 | .00139 | .00047 | 5.1395 | .00182 | -.00347 | 10.284 | -.00034 | .00341 | -.03286 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6124.4** | **79465.** | **5707.0** |
| Stddev | 29.3 | 476. | 60.9 |
| %RSD | .47762 | .59871 | 1.0670 |
| #1 | 6145.1 | 79801. | 5663.9 |
| #2 | 6103.7 | 79129. | 5750.1 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 0:16:56 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53207** | **.50310** | **1.0594** | **.51834** | **.51310** | **.49146** | **-.00340** | **5.0949** | **.51861** | **.51879** | **.50791** | **.51477** |
| Stddev | .00117 | .00257 | .0007 | .00130 | .00247 | .00167 | .00107 | .0195 | .00138 | .00067 | .00106 | .00060 |
| %RSD | .22034 | .50999 | .06857 | .25076 | .48140 | .34020 | 31.440 | .38290 | .26536 | .12976 | .20955 | .11672 |
| #1 | .53290 | .50492 | 1.0589 | .51926 | .51135 | .49028 | -.00416 | 5.0811 | .51958 | .51926 | .50867 | .51435 |
| #2 | .53124 | .50129 | 1.0599 | .51742 | .51485 | .49265 | -.00264 | 5.1087 | .51763 | .51831 | .50716 | .51520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5148** | **51.804** | **1.0356** | **21.819** | **.52943** | **.50412** | **5.2184** | **.51944** | **1.0399** | **1.0328** | **.00265** | **1.0399** |
| Stddev | .0106 | .166 | .0024 | .000 | .00033 | .00110 | .0088 | .00011 | .0000 | .0024 | .00262 | .0041 |
| %RSD | .42266 | .32098 | .23376 | .00020 | .06207 | .21776 | .16793 | .02045 | .00322 | .22851 | 98.816 | .39807 |
| #1 | 2.5073 | 51.686 | 1.0338 | 21.819 | .52966 | .50489 | 5.2122 | .51952 | 1.0400 | 1.0344 | .00080 | 1.0429 |
| #2 | 2.5223 | 51.921 | 1.0373 | 21.819 | .52920 | .50334 | 5.2246 | .51936 | 1.0399 | 1.0311 | .00450 | 1.0370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0621** | **5.1050** | **1.0211** | **.50157** | **-.00129** | **.51307** | **1.0087** | **.06202** | **.51788** | F **.55496** | **.50158** |
| Stddev | .0076 | .0257 | .0064 | .00104 | .00043 | .00085 | .0043 | .02137 | .00082 | .00189 | .00266 |
| %RSD | .71715 | .50265 | .62702 | .20821 | 33.379 | .16495 | .42404 | 34.466 | .15806 | .34087 | .53127 |
| #1 | 1.0675 | 5.0868 | 1.0256 | .50084 | -.00159 | .51367 | 1.0118 | .07713 | .51846 | .55630 | .49970 |
| #2 | 1.0567 | 5.1231 | 1.0165 | .50231 | -.00098 | .51247 | 1.0057 | .04690 | .51730 | .55362 | .50347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6284.3** | **80945.** | **5770.8** |
| Stddev | 13.9 | 248. | 26.5 |
| %RSD | .22166 | .30580 | .45850 |
| #1 | 6274.5 | 80770. | 5752.1 |
| #2 | 6294.2 | 81120. | 5789.5 |

Sample Name: CCB Acquired: 5/15/2013 0:19:09 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.00005** | **-.00137** | F **-.00661** | **.00043** | **.00014** | **-.00312** | **-.00087** | **-.00002** | **.00012** | **-.00006** |
| Stddev | .00027 | .00021 | .00208 | .00044 | .00040 | .00002 | .00108 | .00219 | .00017 | .00015 | .00005 |
| %RSD | 120.61 | 392.02 | 151.23 | 6.6702 | 93.632 | 12.692 | 34.660 | 250.40 | 905.95 | 125.97 | 88.810 |
| #1 | -.00003 | .00020 | -.00284 | -.00630 | .00072 | .00013 | -.00236 | -.00242 | .00010 | .00023 | -.00009 |
| #2 | -.00042 | -.00010 | .00010 | -.00692 | .00015 | .00016 | -.00389 | .00067 | -.00014 | .00001 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.00359** | **-.01815** | F **.00556** | **-.00041** | **.00004** | **-.00002** | F **.13540** | **-.00019** | **-.00939** | **.00034** |
| Stddev | .00025 | .00147 | .01397 | .00065 | .00199 | .00006 | .00013 | .00610 | .00017 | .00242 | .00054 |
| %RSD | 36.640 | 40.785 | 77.008 | 11.758 | 480.66 | 146.98 | 547.19 | 4.5034 | 90.258 | 25.784 | 157.59 |
| #1 | .00051 | .00256 | -.02803 | .00603 | .00099 | .00009 | -.00012 | .13109 | -.00031 | -.01110 | -.00004 |
| #2 | .00087 | .00463 | -.00827 | .00510 | -.00182 | -.00000 | .00007 | .13971 | -.00007 | -.00768 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | | |
| Low Limit | | | | -.00522 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00492** | **.00033** | **-.00272** | **.02279** | **.00002** | **.00013** | **-.00192** | **.00014** | **-.00114** | **.01966** | **.00055** |
| Stddev | .00070 | .00012 | .00069 | .03134 | .00085 | .00007 | .00260 | .00019 | .00013 | .03388 | .00048 |
| %RSD | 14.146 | 35.563 | 25.278 | 137.56 | 5261.4 | 53.875 | 135.62 | 136.46 | 11.520 | 172.34 | 87.712 |
| #1 | .00541 | .00042 | -.00321 | .00062 | -.00059 | .00008 | -.00008 | .00000 | -.00123 | -.00430 | .00088 |
| #2 | .00443 | .00025 | -.00224 | .04495 | .00062 | .00018 | -.00376 | .00027 | -.00104 | .04361 | .00021 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00290** | **.00143** |
| Stddev | .00010 | .00190 |
| %RSD | 3.5225 | 132.65 |
| #1 | .00297 | .00009 |
| #2 | .00283 | .00277 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6287.0** | **81912.** | **5744.6** |
| Stddev | 7.8 | 445. | 39.1 |
| %RSD | .12358 | .54269 | .68038 |
| #1 | 6281.5 | 81597. | 5717.0 |
| #2 | 6292.4 | 82226. | 5772.3 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 0:21:39 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00989** | **.10245** | **.01540** | **.09481** | **.01063** | **.00095** | **.10759** | **.20355** | **.00524** | **.01093** | **.01022** | **.01651** |
| Stddev | .00005 | .00005 | .00097 | .00025 | .00051 | .00006 | .00012 | .00045 | .00018 | .00006 | .00007 | .00040 |
| %RSD | .47927 | .04767 | 6.2805 | .26438 | 4.8219 | 6.8202 | .11067 | .21926 | 3.4229 | .52514 | .70010 | 2.4002 |
| #1 | .00993 | .10242 | .01608 | .09463 | .01027 | .00099 | .10767 | .20323 | .00511 | .01089 | .01017 | .01623 |
| #2 | .00986 | .10249 | .01472 | .09499 | .01099 | .00090 | .10750 | .20386 | .00536 | .01097 | .01027 | .01679 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10747** | **3.1230** | F **.01439** | **.22241** | **.01077** | **.01996** | **1.1642** | **.04243** | **3.0977** | **.00991** | **.00246** | **.00851** |
| Stddev | .00109 | .0524 | .00177 | .00162 | .00009 | .00037 | .0108 | .00041 | .0134 | .00056 | .00406 | .00055 |
| %RSD | 1.0168 | 1.6787 | 12.316 | .72955 | .84125 | 1.8550 | .92894 | .97005 | .43084 | 5.6677 | 164.72 | 6.4475 |
| #1 | .10670 | 3.1601 | .01314 | .22355 | .01071 | .01970 | 1.1565 | .04214 | 3.0883 | .00951 | .00533 | .00890 |
| #2 | .10824 | 3.0860 | .01564 | .22126 | .01084 | .02022 | 1.1718 | .04272 | 3.1072 | .01031 | -.00041 | .00812 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .01000 | | | | | | | | | |
| Range | | | 30.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01676** | **.51880** | **.10272** | **.01007** | **.01493** | **.01027** | **.01392** | **.05146** | **.01014** | F **.02634** | **.01715** |
| Stddev | .00214 | .01223 | .00018 | .00010 | .00011 | .00054 | .00117 | .00190 | .00020 | .00046 | .00050 |
| %RSD | 12.762 | 2.3582 | .17279 | 1.0309 | .74215 | 5.2969 | 8.4142 | 3.7016 | 1.9534 | 1.7408 | 2.9298 |
| #1 | .01828 | .51015 | .10259 | .01000 | .01500 | .00989 | .01309 | .05280 | .01028 | .02666 | .01680 |
| #2 | .01525 | .52746 | .10284 | .01015 | .01485 | .01066 | .01475 | .05011 | .01000 | .02601 | .01751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .02000 | |
| Range | | | | | | | | | | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6350.1** | **83073.** | **5843.7** |
| Stddev | 11.3 | 170. | 23.2 |
| %RSD | .17808 | .20410 | .39734 |
| #1 | 6342.1 | 83193. | 5827.3 |
| #2 | 6358.1 | 82953. | 5860.1 |

Sample Name: MB 280-173858/1-A Acquired: 5/15/2013 0:24:03 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173858 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **.00369** | **-.00149** | W **-.00682** | **.00046** | **-.00004** | **-.00327** | **.07885** | **.00016** |
| Stddev | .00000 | .00002 | .00060 | .00054 | .00005 | .00001 | .00283 | .00552 | .00010 |
| %RSD | 1.1840 | .62325 | 39.977 | 7.8885 | 10.018 | 30.615 | 86.652 | 7.0042 | 64.066 |
| #1 | -.00037 | .00370 | -.00191 | -.00720 | .00049 | -.00005 | -.00527 | .07495 | .00023 |
| #2 | -.00037 | .00367 | -.00107 | -.00644 | .00043 | -.00003 | -.00127 | .08276 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00032** | **.00194** | **.02530** | **.00643** | **.00334** | **.02098** | **.00025** | **-.00015** |
| Stddev | .00005 | .00010 | .00002 | .00133 | .00504 | .00097 | .00144 | .00004 | .00010 |
| %RSD | 18.443 | 31.853 | .86982 | 5.2682 | 78.470 | 29.077 | 6.8436 | 16.345 | 67.207 |
| #1 | .00026 | .00040 | .00195 | .02624 | .00999 | .00403 | .01996 | .00022 | -.00023 |
| #2 | .00033 | .00025 | .00192 | .02436 | .00286 | .00265 | .02199 | .00028 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35762** | **.00055** | F **.07959** | **.00019** | **.04574** | **-.00207** | **.00050** | **.03371** | **.00482** |
| Stddev | .00439 | .00006 | .00037 | .00012 | .00062 | .00020 | .00183 | .00644 | .00065 |
| %RSD | 1.2264 | 10.511 | .46861 | 64.371 | 1.3613 | 9.5908 | 367.19 | 19.106 | 13.465 |
| #1 | .36072 | .00051 | .07985 | .00010 | .04618 | -.00193 | -.00080 | .03826 | .00436 |
| #2 | .35452 | .00059 | .07933 | .00027 | .04530 | -.00221 | .00179 | .02915 | .00528 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **-.00148** | **.00013** | **-.00117** | **-.00171** | **.00017** | **.00387** | **.00322** |
| Stddev | .00018 | .00078 | .00017 | .00043 | .02492 | .00043 | .00004 | .00125 |
| %RSD | 63.519 | 52.564 | 127.00 | 37.265 | 1459.4 | 259.30 | 1.0361 | 38.693 |
| #1 | .00042 | -.00093 | .00001 | -.00086 | -.01933 | -.00014 | .00390 | .00234 |
| #2 | .00016 | -.00203 | .00026 | -.00147 | .01591 | .00047 | .00385 | .00410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6410.2** | **83947.** | **5854.7** |
| Stddev | 2.1 | 15. | 28.8 |
| %RSD | .03248 | .01817 | .49231 |
| #1 | 6411.7 | 83958. | 5875.1 |
| #2 | 6408.7 | 83937. | 5834.3 |

Sample Name: LCS 280-173858/2-A Acquired: 5/15/2013 0:26:31 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173858 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05369** | **1.8556** | **1.0205** | **1.0123** | **2.0104** | **.04811** | **2.0341** | **48.813** | **.10297** |
| Stddev | .00066 | .0026 | .0030 | .0013 | .0040 | .00009 | .0034 | .087 | .00023 |
| %RSD | 1.2213 | .13878 | .29547 | .12746 | .19989 | .17997 | .16533 | .17826 | .22630 |
| #1 | .05415 | 1.8574 | 1.0226 | 1.0114 | 2.0133 | .04804 | 2.0317 | 48.875 | .10281 |
| #2 | .05322 | 1.8538 | 1.0184 | 1.0132 | 2.0076 | .04817 | 2.0365 | 48.752 | .10314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49224** | **.19639** | **.25176** | **.97433** | **50.555** | **1.0082** | **51.749** | **.50049** | **.98163** |
| Stddev | .00024 | .00002 | .00019 | .00336 | .074 | .0006 | .001 | .00048 | .00025 |
| %RSD | .04843 | .01192 | .07360 | .34455 | .14560 | .06336 | .00159 | .09617 | .02504 |
| #1 | .49207 | .19637 | .25163 | .97196 | 50.607 | 1.0077 | 51.749 | .50015 | .98145 |
| #2 | .49241 | .19641 | .25189 | .97671 | 50.502 | 1.0086 | 51.750 | .50083 | .98180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.043** | **.49192** | **10.535** | **.49010** | **.03469** | **.50126** | **2.0287** | **1.7197** | **1.9626** |
| Stddev | .203 | .00080 | .002 | .00211 | .00457 | .00024 | .0050 | .0009 | .0001 |
| %RSD | .39865 | .16270 | .01661 | .42978 | 13.175 | .04762 | .24844 | .05484 | .00315 |
| #1 | 50.899 | .49136 | 10.536 | .49159 | .03146 | .50143 | 2.0322 | 1.7190 | 1.9626 |
| #2 | 51.187 | .49249 | 10.534 | .48861 | .03793 | .50109 | 2.0251 | 1.7203 | 1.9627 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98362** | **.97877** | **.98664** | **1.9062** | **2.0409** | **.50244** | **.52028** | **.47497** |
| Stddev | .00218 | .00218 | .00167 | .0026 | .0326 | .00020 | .00072 | .00196 |
| %RSD | .22140 | .22304 | .16931 | .13391 | 1.5989 | .03882 | .13815 | .41178 |
| #1 | .98516 | .98032 | .98546 | 1.9044 | 2.0640 | .50230 | .52079 | .47358 |
| #2 | .98208 | .97723 | .98782 | 1.9080 | 2.0178 | .50258 | .51978 | .47635 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6149.9** | **80332.** | **5802.0** |
| Stddev | 7.9 | 8. | 15.0 |
| %RSD | .12844 | .01034 | .25846 |
| #1 | 6144.3 | 80338. | 5791.4 |
| #2 | 6155.5 | 80326. | 5812.6 |

Sample Name: 280-42086-A-1-A  Acquired: 5/15/2013 0:28:44  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173858 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **29.140** | **.01288** | **-.00517** | **.46259** | **.00044** | F **-.05806** | **42.236** | **.00092** |
| Stddev | .00041 | .045 | .00037 | .00005 | .00062 | .00000 | .00235 | .124 | .00005 |
| %RSD | 125.93 | .15484 | 2.8505 | 1.0012 | .13366 | 1.1111 | 4.0465 | .29315 | 4.9861 |
| #1 | -.00004 | 29.108 | .01262 | -.00513 | .46303 | .00044 | -.05640 | 42.149 | .00088 |
| #2 | -.00062 | 29.172 | .01314 | -.00521 | .46216 | .00044 | -.05972 | 42.324 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08254** | **.01823** | **.12265** | **187.90** | **5.2276** | **.02960** | **39.415** | **2.4878** | **.00089** |
| Stddev | .00042 | .00006 | .00002 | .17 | .0127 | .00054 | .085 | .0004 | .00013 |
| %RSD | .50650 | .33300 | .01889 | .08968 | .24235 | 1.8218 | .21519 | .01745 | 14.145 |
| #1 | .08224 | .01819 | .12267 | 187.78 | 5.2186 | .02922 | 39.475 | 2.4881 | .00098 |
| #2 | .08283 | .01827 | .12264 | 188.02 | 5.2365 | .02999 | 39.355 | 2.4875 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1476** | **.05376** | **11.983** | **.01553** | **1.0400** | **.00179** | **-.00020** | **1.1518** | **.01183** |
| Stddev | .0006 | .00001 | .034 | .00069 | .0026 | .00037 | .00055 | .0118 | .00001 |
| %RSD | .02933 | .01125 | .28060 | 4.4586 | .25385 | 20.446 | 276.03 | 1.0282 | .07463 |
| #1 | 2.1472 | .05376 | 11.959 | .01504 | 1.0381 | .00153 | .00019 | 1.1434 | .01184 |
| #2 | 2.1481 | .05375 | 12.007 | .01602 | 1.0418 | .00205 | -.00058 | 1.1601 | .01183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16788** | **.04099** | **9.9987** | **-.00604** | **-.04377** | **.33554** | **.34250** | **.15645** |
| Stddev | .00027 | .00145 | .0048 | .00085 | .03832 | .00082 | .00009 | .00065 |
| %RSD | .16364 | 3.5356 | .04812 | 14.151 | 87.531 | .24433 | .02512 | .41660 |
| #1 | .16807 | .04202 | 9.9953 | -.00543 | -.07087 | .33496 | .34244 | .15691 |
| #2 | .16768 | .03997 | 10.002 | -.00664 | -.01668 | .33612 | .34256 | .15598 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7077.4** | **92786.** | **6610.5** |
| Stddev | 22.4 | 116. | 15.8 |
| %RSD | .31588 | .12496 | .23921 |
| #1 | 7093.2 | 92704. | 6621.7 |
| #2 | 7061.6 | 92868. | 6599.3 |

Sample Name: MB 280-173474/1-A Acquired: 5/15/2013 0:31:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **.00261** | **.00096** | F **-.00682** | W **.00077** | **.00004** | **-.00039** | **.00919** | **-.00005** |
| Stddev | .00001 | .00009 | .00003 | .00013 | .00032 | .00001 | .00022 | .00423 | .00005 |
| %RSD | 2.4787 | 3.4936 | 3.2937 | 1.9560 | 41.345 | 32.747 | 57.237 | 46.069 | 115.33 |
| #1 | -.00053 | .00267 | .00093 | -.00692 | .00055 | .00005 | -.00023 | .00620 | -.00001 |
| #2 | -.00055 | .00255 | .00098 | -.00673 | .00100 | .00003 | -.00055 | .01218 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | .00058 | | | | |
| Low Limit | | | | -.00343 | -.00058 | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **-.00011** | **.00095** | W **.02818** | **-.06566** | W **.00348** | **.00134** | **.00018** | **.00033** |
| Stddev | .00001 | .00010 | .00009 | .00028 | .04848 | .00065 | .00123 | .00003 | .00009 |
| %RSD | 5.3132 | 86.860 | 9.6334 | .99823 | 73.826 | 18.713 | 91.940 | 17.171 | 26.758 |
| #1 | .00026 | -.00004 | .00089 | .02838 | -.09994 | .00302 | .00221 | .00021 | .00039 |
| #2 | .00028 | -.00018 | .00102 | .02798 | -.03139 | .00394 | .00047 | .00016 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .02200 | | .00261 | | | |
| Low Limit | | | | -.02200 | | -.00261 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.61950** | **.00057** | F **.12706** | **.00008** | **.00323** | **-.00009** | **.00085** | W **.05029** | **-.00064** |
| Stddev | .00660 | .00001 | .00153 | .00132 | .00109 | .00282 | .00247 | .00606 | .00023 |
| %RSD | 1.0661 | 1.1331 | 1.2067 | 1704.1 | 33.713 | 3259.5 | 289.10 | 12.055 | 36.193 |
| #1 | .62417 | .00056 | .12598 | -.00085 | .00246 | -.00208 | .00260 | .05458 | -.00047 |
| #2 | .61483 | .00057 | .12815 | .00101 | .00401 | .00191 | -.00089 | .04600 | -.00080 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .20152 | | .02970 | | | | | .03470 | |
| Low Limit | -.20152 | | -.02970 | | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00049** | **-.00006** | **.00041** | **-.00040** | **-.00201** | **.00024** | **.00284** | **.00061** |
| Stddev | .00001 | .00040 | .00003 | .00085 | .02009 | .00033 | .00017 | .00049 |
| %RSD | 2.2838 | 684.19 | 7.6607 | 211.83 | 998.55 | 134.04 | 5.8461 | 80.614 |
| #1 | .00048 | .00022 | .00039 | -.00100 | -.01622 | .00001 | .00295 | .00026 |
| #2 | .00050 | -.00034 | .00043 | .00020 | .01219 | .00047 | .00272 | .00096 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00030 | | | | | | | |
| Low Limit | -.00030 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6420.6** | **84568.** | **5925.2** |
| Stddev | 1.7 | 104. | 15.2 |
| %RSD | .02584 | .12292 | .25598 |
| #1 | 6419.4 | 84494. | 5935.9 |
| #2 | 6421.7 | 84641. | 5914.5 |

Sample Name: LCS 280-173474/2-A Acquired: 5/15/2013 0:34:24 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05746** | **1.9407** | **1.0835** | **1.0826** | **2.1211** | **.05054** | **2.1554** | **51.642** | **.10918** |
| Stddev | .00002 | .0012 | .0007 | .0008 | .0040 | .00010 | .0034 | .125 | .00020 |
| %RSD | .03781 | .06334 | .06458 | .07175 | .18889 | .19673 | .15756 | .24165 | .17900 |
| #1 | .05748 | 1.9416 | 1.0830 | 1.0831 | 2.1183 | .05061 | 2.1578 | 51.553 | .10905 |
| #2 | .05745 | 1.9399 | 1.0840 | 1.0820 | 2.1239 | .05047 | 2.1530 | 51.730 | .10932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51550** | **.20655** | **.26344** | **1.0160** | **53.401** | **1.0576** | **55.028** | **.52907** | **1.0242** |
| Stddev | .00015 | .00043 | .00060 | .0018 | .063 | .0010 | .106 | .00182 | .0013 |
| %RSD | .02894 | .20972 | .22884 | .17968 | .11796 | .09773 | .19173 | .34316 | .12919 |
| #1 | .51539 | .20685 | .26302 | 1.0173 | 53.356 | 1.0569 | 54.954 | .52779 | 1.0252 |
| #2 | .51560 | .20624 | .26387 | 1.0147 | 53.445 | 1.0583 | 55.103 | .53036 | 1.0233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.879** | **.51504** | F **11.148** | **.51621** | **.26058** | **.53062** | **2.1830** | **10.506** | **2.0514** |
| Stddev | .121 | .00083 | .013 | .00124 | .00350 | .00153 | .0073 | .023 | .0039 |
| %RSD | .21991 | .16056 | .11779 | .24076 | 1.3435 | .28764 | .33666 | .22102 | .19066 |
| #1 | 54.794 | .51562 | 11.157 | .51709 | .26306 | .52954 | 2.1882 | 10.523 | 2.0542 |
| #2 | 54.964 | .51445 | 11.139 | .51533 | .25811 | .53170 | 2.1778 | 10.490 | 2.0486 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 11.100 | | | | | | |
| Low Limit | | | 9.1000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0342** | **1.0436** | **1.0325** | **2.0143** | **2.1461** | **.52855** | F **.55209** | **.49618** |
| Stddev | .0000 | .0039 | .0025 | .0008 | .0024 | .00105 | .00083 | .00092 |
| %RSD | .00210 | .36861 | .24070 | .04017 | .11134 | .19950 | .15038 | .18441 |
| #1 | 1.0342 | 1.0409 | 1.0307 | 2.0149 | 2.1478 | .52780 | .55150 | .49553 |
| #2 | 1.0342 | 1.0463 | 1.0342 | 2.0137 | 2.1445 | .52929 | .55268 | .49682 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | .55000 | |
| Low Limit | | | | | | | .42500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6153.5** | **80099.** | **5742.9** |
| Stddev | .6 | 86. | 4.4 |
| %RSD | .01050 | .10788 | .07715 |
| #1 | 6153.0 | 80160. | 5746.0 |
| #2 | 6153.9 | 80038. | 5739.7 |

Sample Name: 280-41999-J-1-A Acquired: 5/15/2013 0:36:37 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00101** | **.04815** | **.00458** | **.57421** | **.24652** | **-.00008** | **-.00123** | **79.573** | **.00008** |
| Stddev | .00019 | .00010 | .00003 | .00144 | .00168 | .00002 | .00106 | .664 | .00003 |
| %RSD | 18.850 | .21526 | .70058 | .25004 | .67999 | 24.497 | 86.282 | .83417 | 32.219 |
| #1 | -.00087 | .04823 | .00456 | .57523 | .24534 | -.00007 | -.00198 | 79.103 | .00010 |
| #2 | -.00114 | .04808 | .00460 | .57320 | .24771 | -.00010 | -.00048 | 80.042 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **.00060** | **.00164** | **.50074** | **11.495** | **.05621** | **12.940** | **.18668** | **.03440** |
| Stddev | .00012 | .00022 | .00019 | .00284 | .238 | .00086 | .020 | .00004 | .00024 |
| %RSD | 10.203 | 36.292 | 11.582 | .56761 | 2.0714 | 1.5297 | .15571 | .02321 | .68328 |
| #1 | .00126 | .00045 | .00151 | .49873 | 11.326 | .05681 | 12.955 | .18671 | .03457 |
| #2 | .00109 | .00076 | .00178 | .50275 | 11.663 | .05560 | 12.926 | .18665 | .03424 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **538.19** | **.00179** | **.66081** | **.00234** | **103.48** | **-.00221** | **.18465** | **12.307** | **-.00017** |
| Stddev | 4.90 | .00011 | .00223 | .00152 | .02 | .00322 | .00040 | .008 | .00002 |
| %RSD | .91039 | 6.2453 | .33722 | 65.009 | .01679 | 145.57 | .21859 | .06542 | 9.1522 |
| #1 | 534.73 | .00187 | .66239 | .00127 | 103.46 | .00006 | .18494 | 12.301 | -.00018 |
| #2 | 541.66 | .00171 | .65923 | .00342 | 103.49 | -.00449 | .18437 | 12.313 | -.00016 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.84816** | **.00038** | **.00040** | **-.00037** | **-.00587** | **.00376** | **.00985** | **.00055** |
| Stddev | .00783 | .00113 | .00036 | .00079 | .02691 | .00029 | .00022 | .00157 |
| %RSD | .92273 | 301.05 | 90.562 | 216.80 | 458.78 | 7.7889 | 2.2448 | 283.00 |
| #1 | .84262 | .00118 | .00014 | -.00093 | -.02490 | .00355 | .01000 | -.00055 |
| #2 | .85369 | -.00042 | .00065 | .00020 | .01316 | .00396 | .00969 | .00166 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6017.8** | **78369.** | **5744.9** |
| Stddev | 6.5 | 404. | 28.6 |
| %RSD | .10728 | .51524 | .49718 |
| #1 | 6022.4 | 78083. | 5765.1 |
| #2 | 6013.2 | 78654. | 5724.7 |

Sample Name: sd 280-41999-J-1-A@5 Acquired: 5/15/2013 0:39:39 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00153** | **.00992** | **-.00091** | **.10789** | **.04959** | **.00002** | **-.00101** | **15.974** | **.00015** |
| Stddev | .00032 | .00003 | .00188 | .00030 | .00031 | .00007 | .00234 | .127 | .00015 |
| %RSD | 21.126 | .31367 | 205.87 | .28082 | .62472 | 412.77 | 231.43 | .79591 | 97.839 |
| #1 | -.00130 | .00994 | .00042 | .10811 | .04937 | -.00003 | -.00267 | 15.885 | .00005 |
| #2 | -.00176 | .00990 | -.00224 | .10768 | .04981 | .00006 | .00064 | 16.064 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00013** | **.00348** | **.11481** | **2.2047** | **.01183** | **2.6589** | **.03799** | **.00661** |
| Stddev | .00009 | .00002 | .00024 | .00037 | .0008 | .00131 | .0101 | .00015 | .00032 |
| %RSD | 32.186 | 18.328 | 7.0201 | .32571 | .03443 | 11.105 | .38075 | .39677 | 4.8278 |
| #1 | .00021 | .00014 | .00365 | .11454 | 2.2052 | .01090 | 2.6661 | .03810 | .00639 |
| #2 | .00033 | .00011 | .00330 | .11507 | 2.2041 | .01276 | 2.6517 | .03788 | .00684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **108.94** | **.00065** | **.11495** | **.00082** | **19.725** | **-.00134** | **.03537** | **2.4299** | **-.00029** |
| Stddev | .75 | .00036 | .00143 | .00016 | .079 | .00047 | .00018 | .0052 | .00003 |
| %RSD | .68725 | 55.571 | 1.2425 | 18.954 | .40041 | 35.030 | .50980 | .21500 | 10.598 |
| #1 | 108.41 | .00040 | .11596 | .00071 | 19.669 | -.00167 | .03524 | 2.4262 | -.00031 |
| #2 | 109.47 | .00091 | .11394 | .00093 | 19.780 | -.00101 | .03549 | 2.4336 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16989** | **-.00088** | **-.00003** | **-.00039** | **.02753** | **.00051** | **.00529** | **-.00029** |
| Stddev | .00049 | .00080 | .00014 | .00010 | .01561 | .00013 | .00034 | .00012 |
| %RSD | .28868 | 91.120 | 554.92 | 26.290 | 56.698 | 25.255 | 6.3908 | 42.932 |
| #1 | .16955 | -.00031 | .00007 | -.00032 | .03856 | .00042 | .00553 | -.00038 |
| #2 | .17024 | -.00144 | -.00012 | -.00046 | .01649 | .00060 | .00505 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6154.2** | **79497.** | **5704.9** |
| Stddev | 14.2 | 358. | 48.4 |
| %RSD | .23148 | .44977 | .84752 |
| #1 | 6144.1 | 79244. | 5739.1 |
| #2 | 6164.2 | 79750. | 5670.7 |

Sample Name: 280-41999-J-1-B MS  Acquired: 5/15/2013 0:42:05  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05783** | **1.9091** | **1.1012** | **1.6293** | **2.3512** | **.05027** | **2.1388** | **130.12** | **.10879** |
| Stddev | .00056 | .0050 | .0046 | .0001 | .0193 | .00025 | .0062 | .94 | .00009 |
| %RSD | .97262 | .25973 | .41632 | .00360 | .82121 | .50212 | .28875 | .72344 | .08619 |
| #1 | .05823 | 1.9056 | 1.1045 | 1.6294 | 2.3376 | .05009 | 2.1345 | 129.46 | .10873 |
| #2 | .05743 | 1.9126 | 1.0980 | 1.6293 | 2.3649 | .05045 | 2.1432 | 130.79 | .10886 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50949** | **.20262** | **.26650** | **1.5018** | **65.439** | **1.1029** | **65.178** | **.70419** | **1.0496** |
| Stddev | .00163 | .00044 | .00011 | .0090 | .520 | .0122 | .027 | .00065 | .0035 |
| %RSD | .31951 | .21496 | .04216 | .59755 | .79444 | 1.1037 | .04146 | .09167 | .33378 |
| #1 | .50834 | .20231 | .26642 | 1.4954 | 65.072 | 1.0942 | 65.159 | .70373 | 1.0471 |
| #2 | .51065 | .20293 | .26658 | 1.5081 | 65.807 | 1.1115 | 65.197 | .70464 | 1.0521 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **591.52** | **.50514** | **11.851** | **.49843** | **102.88** | **.53757** | **2.3534** | **22.203** | **2.0107** |
| Stddev | 2.51 | .00094 | .036 | .00119 | .02 | .00011 | .0047 | .178 | .0053 |
| %RSD | .42383 | .18697 | .30540 | .23957 | .02251 | .02111 | .20204 | .80232 | .26198 |
| #1 | 589.75 | .50447 | 11.826 | .49927 | 102.90 | .53765 | 2.3500 | 22.077 | 2.0069 |
| #2 | 593.29 | .50581 | 11.877 | .49759 | 102.86 | .53749 | 2.3568 | 22.329 | 2.0144 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8673** | **1.0427** | **1.0305** | **1.8820** | **2.1288** | **.52680** | **.54671** | **.49868** |
| Stddev | .0079 | .0030 | .0008 | .0038 | .0021 | .00127 | .00119 | .00513 |
| %RSD | .42208 | .28659 | .07807 | .20430 | .09958 | .24135 | .21692 | 1.0280 |
| #1 | 1.8617 | 1.0405 | 1.0299 | 1.8793 | 2.1303 | .52591 | .54755 | .49505 |
| #2 | 1.8729 | 1.0448 | 1.0310 | 1.8847 | 2.1273 | .52770 | .54587 | .50230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5933.0** | **78219.** | **5747.3** |
| Stddev | 28.0 | 92. | 12.5 |
| %RSD | .47154 | .11798 | .21719 |
| #1 | 5952.8 | 78154. | 5756.1 |
| #2 | 5913.2 | 78285. | 5738.5 |

Sample Name: 280-41999-J-1-C MSD  Acquired: 5/15/2013 0:44:56  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05743** | **1.8971** | **1.0943** | **1.6169** | **2.3365** | **.04975** | **2.1192** | **129.79** | **.10848** |
| Stddev | .00092 | .0063 | .0048 | .0006 | .0104 | .00022 | .0005 | .50 | .00019 |
| %RSD | 1.6001 | .33123 | .44115 | .03900 | .44522 | .43445 | .02510 | .38194 | .17108 |
| #1 | .05808 | 1.9016 | 1.0977 | 1.6174 | 2.3439 | .04990 | 2.1188 | 130.14 | .10835 |
| #2 | .05678 | 1.8927 | 1.0909 | 1.6165 | 2.3292 | .04959 | 2.1195 | 129.44 | .10861 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50851** | **.20160** | **.26449** | **1.4936** | **65.150** | **1.0978** | **65.279** | **.70425** | **1.0426** |
| Stddev | .00041 | .00074 | .00016 | .0073 | .389 | .0022 | .174 | .00186 | .0022 |
| %RSD | .07994 | .36625 | .06025 | .48519 | .59692 | .20510 | .26727 | .26474 | .21115 |
| #1 | .50880 | .20212 | .26461 | 1.4987 | 65.425 | 1.0994 | 65.402 | .70557 | 1.0441 |
| #2 | .50822 | .20108 | .26438 | 1.4885 | 64.875 | 1.0962 | 65.155 | .70293 | 1.0410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **589.59** | **.50347** | **11.764** | **.49518** | **102.15** | **.53378** | **2.3376** | **22.199** | **1.9986** |
| Stddev | 2.24 | .00015 | .018 | .00340 | .02 | .00071 | .0045 | .063 | .0035 |
| %RSD | .37999 | .02936 | .15392 | .68661 | .01536 | .13309 | .19303 | .28428 | .17357 |
| #1 | 591.18 | .50337 | 11.777 | .49758 | 102.16 | .53428 | 2.3344 | 22.154 | 2.0011 |
| #2 | 588.01 | .50358 | 11.752 | .49277 | 102.14 | .53328 | 2.3408 | 22.243 | 1.9962 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8504** | **1.0392** | **1.0296** | **1.8701** | **2.1143** | **.52573** | **.54981** | **.49368** |
| Stddev | .0104 | .0004 | .0005 | .0010 | .0131 | .00001 | .00360 | .00232 |
| %RSD | .56458 | .04233 | .05172 | .05625 | .61979 | .00259 | .65481 | .47004 |
| #1 | 1.8578 | 1.0395 | 1.0292 | 1.8709 | 2.1235 | .52574 | .55236 | .49204 |
| #2 | 1.8430 | 1.0389 | 1.0300 | 1.8694 | 2.1050 | .52572 | .54727 | .49532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5840.2** | **76099.** | **5599.3** |
| Stddev | 8.5 | 148. | 35.6 |
| %RSD | .14498 | .19415 | .63583 |
| #1 | 5834.3 | 75995. | 5574.1 |
| #2 | 5846.2 | 76204. | 5624.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 0:47:48 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00769** | **51.430** | **-.00205** | **-.00237** | **.00093** | **-.00007** | **1.0602** | **.00257** | **-.00076** | **.00217** | **-.00016** | **.00224** | **51.344** |
| Stddev | .00090 | .083 | .00125 | .00002 | .00011 | .00003 | .0042 | .00123 | .00008 | .00019 | .00028 | .00024 | .321 |
| %RSD | 11.690 | .16151 | 60.866 | .79764 | 11.870 | 40.622 | .39100 | 47.705 | 10.455 | 8.5977 | 170.78 | 10.940 | .62512 |
| #1 | .00706 | 51.371 | -.00117 | -.00235 | .00101 | -.00005 | 1.0631 | .00170 | -.00081 | .00231 | .00003 | .00241 | 51.117 |
| #2 | .00833 | 51.489 | -.00293 | -.00238 | .00085 | -.00009 | 1.0572 | .00344 | -.00070 | .00204 | -.00036 | .00206 | 51.571 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10525** | **.00557** | **-.01050** | **-.00048** | **-.00176** | **264.10** | **.00104** | **-.00537** | **.00093** | **5.5268** | **-.00033** | **.00287** | **.02129** |
| Stddev | .04525 | .00075 | .00255 | .00001 | .00022 | .02 | .00025 | .00210 | .00029 | .0045 | .00157 | .00572 | .00994 |
| %RSD | 42.993 | 13.518 | 24.289 | 1.5984 | 12.444 | .00927 | 24.407 | 39.144 | 31.542 | .08067 | 469.56 | 199.62 | 46.669 |
| #1 | .07326 | .00610 | -.00870 | -.00048 | -.00160 | 264.12 | .00122 | -.00388 | .00114 | 5.5299 | .00077 | -.00118 | .01426 |
| #2 | .13725 | .00504 | -.01231 | -.00049 | -.00191 | 264.09 | .00086 | -.00685 | .00072 | 5.5236 | -.00144 | .00691 | .02832 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00031** | **5.2635** | **.00225** | **-.00322** | **10.429** | **-.00031** | **.00403** | **-.03742** |
| Stddev | .00009 | .00016 | .0194 | .00025 | .00007 | .068 | .00008 | .00040 | .00229 |
| %RSD | 34.469 | 49.705 | .36873 | 11.084 | 2.1263 | .65076 | 25.245 | 9.9235 | 6.1267 |
| #1 | .00019 | .00042 | 5.2498 | .00243 | -.00317 | 10.381 | -.00025 | .00431 | -.03580 |
| #2 | .00031 | .00020 | 5.2772 | .00207 | -.00327 | 10.477 | -.00036 | .00375 | -.03904 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5982.0** | **77619.** | **5582.3** |
| Stddev | 3.6 | 214. | 6.9 |
| %RSD | .06090 | .27609 | .12292 |
| #1 | 5984.6 | 77468. | 5577.4 |
| #2 | 5979.4 | 77771. | 5587.1 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 0:50:16 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53803** | **.49646** | **1.0473** | **.51504** | **.52006** | **.49358** | **.00173** | **5.1373** | **.52246** | **.51983** | **.50527** | **.51176** | **2.5195** |
| Stddev | .00066 | .00293 | .0005 | .00130 | .00225 | .00214 | .00045 | .0367 | .00060 | .00125 | .00089 | .00005 | .0024 |
| %RSD | .12348 | .58924 | .04365 | .25198 | .43303 | .43337 | 26.074 | .71432 | .11480 | .23992 | .17588 | .01071 | .09667 |
| #1 | .53850 | .49853 | 1.0477 | .51596 | .52165 | .49509 | .00205 | 5.1632 | .52288 | .52072 | .50590 | .51180 | 2.5212 |
| #2 | .53756 | .49439 | 1.0470 | .51412 | .51846 | .49206 | .00141 | 5.1113 | .52204 | .51895 | .50464 | .51172 | 2.5178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.570** | **1.0533** | **21.544** | **.52690** | **.50016** | **5.3516** | **.51651** | **1.0284** | **1.0339** | **.00614** | **1.0489** | **1.0462** | **5.0861** |
| Stddev | .294 | .0060 | .024 | .00011 | .00359 | .0383 | .00260 | .0062 | .0054 | .00084 | .0017 | .0008 | .0328 |
| %RSD | .56014 | .57425 | .10953 | .02037 | .71813 | .71586 | .50414 | .60506 | .52026 | 13.628 | .16318 | .07196 | .64565 |
| #1 | 52.778 | 1.0576 | 21.561 | .52697 | .50270 | 5.3786 | .51835 | 1.0328 | 1.0377 | .00555 | 1.0477 | 1.0467 | 5.1093 |
| #2 | 52.362 | 1.0490 | 21.527 | .52682 | .49762 | 5.3245 | .51467 | 1.0240 | 1.0301 | .00674 | 1.0501 | 1.0456 | 5.0629 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0128** | **.50436** | **-.00111** | **.51276** | **1.0029** | **.03033** | **.51255** | **.54791** | **.50243** |
| Stddev | .0002 | .00166 | .00077 | .00022 | .0013 | .03441 | .00078 | .00112 | .00037 |
| %RSD | .01873 | .32918 | 69.148 | .04274 | .13163 | 113.45 | .15215 | .20363 | .07443 |
| #1 | 1.0127 | .50553 | -.00166 | .51291 | 1.0020 | .05465 | .51311 | .54870 | .50217 |
| #2 | 1.0130 | .50319 | -.00057 | .51260 | 1.0038 | .00600 | .51200 | .54712 | .50270 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6131.1** | **79621.** | **5573.6** |
| Stddev | 28.2 | 53. | 51.7 |
| %RSD | .45939 | .06700 | .92699 |
| #1 | 6111.1 | 79583. | 5537.1 |
| #2 | 6151.0 | 79659. | 5610.1 |

Sample Name: CCB Acquired: 5/15/2013 0:52:29 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00080** | **-.00052** | **.00065** | F **-.00551** | W **.00061** | **.00001** | **-.00140** | **-.00322** | **-.00003** | **.00014** | **-.00003** |
| Stddev | .00014 | .00003 | .00004 | .00029 | .00047 | .00002 | .00017 | .00072 | .00008 | .00009 | .00005 |
| %RSD | 17.515 | 6.3975 | 6.3410 | 5.3157 | 76.203 | 153.95 | 11.867 | 22.228 | 293.44 | 62.941 | 176.10 |
| #1 | -.00070 | -.00054 | .00068 | -.00530 | .00094 | .00003 | -.00152 | -.00373 | -.00008 | .00008 | .00001 |
| #2 | -.00090 | -.00050 | .00062 | -.00572 | .00028 | -.00000 | -.00129 | -.00271 | .00003 | .00020 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00333** | **.02132** | **-.03456** | **.00169** | **-.00130** | **.00015** | **.00017** | F **.20118** | **-.00021** | **-.00983** | **.00139** |
| Stddev | .00001 | .00174 | .03934 | .00100 | .00079 | .00003 | .00006 | .01872 | .00026 | .00345 | .00073 |
| %RSD | .23423 | 8.1492 | 113.82 | 58.840 | 61.247 | 20.576 | 34.225 | 9.3073 | 127.37 | 35.097 | 52.828 |
| #1 | .00334 | .02009 | -.06237 | .00240 | -.00074 | .00013 | .00013 | .21442 | -.00039 | -.00739 | .00190 |
| #2 | .00332 | .02254 | -.00674 | .00099 | -.00186 | .00017 | .00022 | .18794 | -.00002 | -.01227 | .00087 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00272 | | | | | | | .10000 | | | |
| Low Limit | -.00272 | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00412** | **-.00122** | **.00074** | **.01525** | **.00001** | **.00009** | **.00037** | **-.00022** | **-.00139** | **.01413** | **.00012** |
| Stddev | .00123 | .00222 | .00008 | .01103 | .00051 | .00007 | .00079 | .00020 | .00053 | .01230 | .00080 |
| %RSD | 29.862 | 181.83 | 10.634 | 72.365 | 3638.3 | 72.125 | 214.73 | 89.014 | 38.327 | 87.096 | 666.08 |
| #1 | .00325 | -.00280 | .00079 | .02305 | -.00035 | .00014 | -.00019 | -.00036 | -.00177 | .02283 | .00068 |
| #2 | .00499 | .00035 | .00068 | .00745 | .00038 | .00005 | .00092 | -.00008 | -.00102 | .00543 | -.00044 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00336** | **-.00003** |
| Stddev | .00014 | .00160 |
| %RSD | 4.0407 | 5803.5 |
| #1 | .00346 | -.00116 |
| #2 | .00327 | .00110 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6143.1** | **79620.** | **5637.4** |
| Stddev | 28.5 | 265. | 7.3 |
| %RSD | .46391 | .33287 | .12896 |
| #1 | 6123.0 | 79433. | 5642.6 |
| #2 | 6163.3 | 79808. | 5632.3 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 0:54:58 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01032** | **.09770** | **.01294** | **.09201** | **.01113** | **.00097** | **.10459** | **.20280** | **.00522** | **.01080** | **.00990** |
| Stddev | .00028 | .00078 | .00013 | .00058 | .00017 | .00001 | .00210 | .00273 | .00001 | .00004 | .00009 |
| %RSD | 2.6837 | .80199 | .99826 | .62933 | 1.5398 | .93775 | 2.0071 | 1.3485 | .24602 | .38391 | .87392 |
| #1 | .01051 | .09714 | .01303 | .09160 | .01125 | .00097 | .10310 | .20473 | .00522 | .01077 | .00996 |
| #2 | .01012 | .09825 | .01285 | .09242 | .01101 | .00098 | .10607 | .20086 | .00523 | .01083 | .00984 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01535** | W **.12816** | **3.0964** | F **.01489** | **.21747** | **.01081** | **.01932** | **1.1803** | **.04094** | **2.9435** | **.00967** |
| Stddev | .00004 | .00103 | .0082 | .00111 | .00514 | .00003 | .00007 | .0198 | .00007 | .0167 | .00155 |
| %RSD | .25970 | .80432 | .26473 | 7.4374 | 2.3621 | .23889 | .36535 | 1.6802 | .16153 | .56685 | 16.081 |
| #1 | .01533 | .12889 | 3.0906 | .01567 | .22110 | .01079 | .01937 | 1.1944 | .04099 | 2.9317 | .00857 |
| #2 | .01538 | .12743 | 3.1022 | .01411 | .21384 | .01083 | .01927 | 1.1663 | .04090 | 2.9553 | .01077 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | | | | | | | |
| Range | | 20.000% | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00248** | **.00947** | **.01371** | **.49080** | **.09904** | **.00983** | **.01400** | **.00982** | **.01369** | F **.08575** | **.00960** |
| Stddev | .00089 | .00004 | .00176 | .00686 | .00048 | .00007 | .00054 | .00048 | .00003 | .01780 | .00018 |
| %RSD | 35.916 | .44525 | 12.811 | 1.3970 | .47966 | .67213 | 3.8656 | 4.9052 | .22485 | 20.758 | 1.8404 |
| #1 | .00185 | .00944 | .01247 | .49565 | .09871 | .00987 | .01438 | .00948 | .01367 | .09833 | .00973 |
| #2 | .00311 | .00950 | .01496 | .48595 | .09938 | .00978 | .01362 | .01016 | .01371 | .07316 | .00948 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02480** | **.01489** |
| Stddev | .00066 | .00047 |
| %RSD | 2.6606 | 3.1353 |
| #1 | .02527 | .01523 |
| #2 | .02433 | .01456 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6248.7** | **80787.** | **5672.3** |
| Stddev | .8 | 5. | 34.2 |
| %RSD | .01225 | .00580 | .60311 |
| #1 | 6249.2 | 80791. | 5648.2 |
| #2 | 6248.1 | 80784. | 5696.5 |

Sample Name: 280-41962-C-1-G Acquired: 5/15/2013 0:57:22 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00105** | **.00128** | **-.00243** | **.01164** | **.14730** | **-.00018** | **-.00133** | **219.64** | **.00005** |
| Stddev | .00038 | .00018 | .00150 | .00067 | .00147 | .00019 | .00339 | .31 | .00017 |
| %RSD | 35.849 | 13.850 | 61.593 | 5.7482 | .99847 | 100.97 | 255.27 | .14113 | 368.99 |
| #1 | -.00132 | .00141 | -.00137 | .01212 | .14626 | -.00032 | .00107 | 219.42 | -.00007 |
| #2 | -.00078 | .00116 | -.00349 | .01117 | .14834 | -.00005 | -.00372 | 219.86 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.00012** | **.00116** | **.27677** | **1.4131** | **.00925** | **56.130** | **.04971** | **.00156** |
| Stddev | .00008 | .00001 | .00010 | .00004 | .0160 | .00018 | .269 | .00009 | .00007 |
| %RSD | 8.7083 | 11.491 | 8.9706 | .01497 | 1.1298 | 1.9086 | .47994 | .17540 | 4.2802 |
| #1 | .00103 | .00011 | .00123 | .27674 | 1.4244 | .00937 | 56.320 | .04977 | .00160 |
| #2 | .00091 | .00012 | .00108 | .27680 | 1.4018 | .00912 | 55.939 | .04965 | .00151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.051** | **.00168** | **.11388** | **.00110** | **8.4309** | **.00010** | **.00176** | **6.5549** | **-.00108** |
| Stddev | .188 | .00007 | .00048 | .00172 | .0046 | .00009 | .00008 | .0121 | .00052 |
| %RSD | .23758 | 4.0638 | .41827 | 155.88 | .05484 | 92.831 | 4.2713 | .18428 | 48.277 |
| #1 | 78.919 | .00173 | .11422 | -.00011 | 8.4276 | .00003 | .00182 | 6.5464 | -.00145 |
| #2 | 79.184 | .00163 | .11355 | .00232 | 8.4341 | .00017 | .00171 | 6.5635 | -.00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3336** | **-.00011** | **.00055** | **-.00016** | **.00893** | **.00143** | **.00375** | **.00256** |
| Stddev | .0082 | .00039 | .00026 | .00136 | .01379 | .00038 | .00012 | .00029 |
| %RSD | .24584 | 370.08 | 47.537 | 842.73 | 154.45 | 26.672 | 3.0814 | 11.397 |
| #1 | 3.3278 | -.00038 | .00037 | -.00112 | .01867 | .00171 | .00366 | .00235 |
| #2 | 3.3394 | .00017 | .00074 | .00080 | -.00082 | .00116 | .00383 | .00276 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5915.8** | **77582.** | **5621.1** |
| Stddev | 4.9 | 236. | 4.9 |
| %RSD | .08206 | .30401 | .08767 |
| #1 | 5912.3 | 77415. | 5617.6 |
| #2 | 5919.2 | 77749. | 5624.6 |

Sample Name: 280-41962-C-2-C Acquired: 5/15/2013 0:59:47 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **.00155** | **-.00153** | **.01031** | **.07633** | **-.00004** | **-.00172** | **100.47** | **.00002** |
| Stddev | .00038 | .00002 | .00054 | .00034 | .00092 | .00008 | .00068 | 1.23 | .00002 |
| %RSD | 107.25 | 1.2333 | 34.979 | 3.3441 | 1.2086 | 194.67 | 39.662 | 1.2289 | 108.27 |
| #1 | -.00063 | .00154 | -.00115 | .01056 | .07568 | .00002 | -.00124 | 99.598 | .00003 |
| #2 | -.00009 | .00157 | -.00191 | .01007 | .07699 | -.00010 | -.00220 | 101.34 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00013** | **.00346** | **.09889** | **1.1638** | **.00492** | **28.081** | **.07288** | **.00009** |
| Stddev | .00003 | .00015 | .00059 | .00199 | .0350 | .00229 | .006 | .00012 | .00001 |
| %RSD | 8.1239 | 117.20 | 17.030 | 2.0112 | 3.0052 | 46.565 | .02293 | .17095 | 9.9066 |
| #1 | .00029 | .00002 | .00304 | .09748 | 1.1885 | .00654 | 28.085 | .07279 | .00008 |
| #2 | .00033 | .00023 | .00387 | .10029 | 1.1391 | .00330 | 28.076 | .07297 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.765** | **.00213** | **.12560** | **.00179** | **18.108** | **-.00135** | **-.00051** | **5.4675** | **-.00080** |
| Stddev | .456 | .00032 | .00153 | .00055 | .024 | .00111 | .00220 | .0273 | .00053 |
| %RSD | .99736 | 15.041 | 1.2218 | 30.715 | .12995 | 82.196 | 434.14 | .49842 | 66.260 |
| #1 | 45.442 | .00236 | .12451 | .00218 | 18.091 | -.00056 | .00105 | 5.4482 | -.00117 |
| #2 | 46.087 | .00190 | .12668 | .00140 | 18.124 | -.00213 | -.00206 | 5.4868 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7442** | **-.00129** | **.00040** | **.00025** | **.00882** | **.00024** | **.00574** | **.00124** |
| Stddev | .0179 | .00245 | .00030 | .00007 | .01364 | .00060 | .00012 | .00355 |
| %RSD | 1.0232 | 190.41 | 74.285 | 27.450 | 154.74 | 245.05 | 2.0726 | 285.76 |
| #1 | 1.7316 | -.00302 | .00019 | .00030 | .01846 | -.00018 | .00565 | -.00127 |
| #2 | 1.7568 | .00045 | .00061 | .00020 | -.00083 | .00067 | .00582 | .00376 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6040.7** | **78352.** | **5688.1** |
| Stddev | .7 | 5. | 16.3 |
| %RSD | .01170 | .00660 | .28717 |
| #1 | 6041.2 | 78348. | 5699.7 |
| #2 | 6040.2 | 78356. | 5676.6 |

Sample Name: 280-41962-C-3-C Acquired: 5/15/2013 1:02:11 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00103** | **.01212** | **.00058** | **.19708** | **.53975** | **-.00006** | **-.00109** | **3.0599** | **-.00010** |
| Stddev | .00036 | .00038 | .00059 | .00045 | .00412 | .00004 | .00099 | .0068 | .00006 |
| %RSD | 34.624 | 3.1428 | 102.29 | .22904 | .76357 | 64.375 | 90.663 | .22218 | 57.375 |
| #1 | -.00078 | .01185 | .00016 | .19676 | .54266 | -.00003 | -.00179 | 3.0647 | -.00006 |
| #2 | -.00128 | .01239 | .00100 | .19740 | .53683 | -.00009 | -.00039 | 3.0551 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00109** | **.00620** | **2.7261** | **3.0625** | **.12038** | **.69068** | **.01880** | **.00064** |
| Stddev | .00001 | .00006 | .00008 | .0051 | .0084 | .00084 | .00008 | .00001 | .00016 |
| %RSD | 1.3751 | 5.3261 | 1.2445 | .18767 | .27446 | .69718 | .01207 | .05405 | 24.514 |
| #1 | .00045 | .00113 | .00625 | 2.7297 | 3.0565 | .12097 | .69074 | .01881 | .00053 |
| #2 | .00046 | .00105 | .00614 | 2.7225 | 3.0684 | .11979 | .69062 | .01879 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **590.96** | **.00293** | **.16782** | **.00027** | **.18320** | **-.00332** | **-.00323** | **9.5021** | **.00001** |
| Stddev | 4.14 | .00023 | .00233 | .00009 | .00333 | .00141 | .00061 | .0010 | .00012 |
| %RSD | .70039 | 7.9845 | 1.3908 | 33.237 | 1.8156 | 42.469 | 18.792 | .01068 | 1091.6 |
| #1 | 593.88 | .00276 | .16617 | .00020 | .18555 | -.00232 | -.00366 | 9.5028 | -.00007 |
| #2 | 588.03 | .00309 | .16947 | .00033 | .18085 | -.00431 | -.00280 | 9.5013 | .00010 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56995** | **.00110** | **-.00020** | **.00158** | **.01444** | **.00034** | **.00449** | **-.00011** |
| Stddev | .00545 | .00232 | .00002 | .00203 | .01716 | .00028 | .00009 | .00094 |
| %RSD | .95641 | 210.54 | 10.470 | 127.95 | 118.86 | 81.296 | 2.0559 | 889.83 |
| #1 | .57381 | .00275 | -.00021 | .00302 | .02658 | .00015 | .00442 | -.00077 |
| #2 | .56610 | -.00054 | -.00019 | .00015 | .00230 | .00054 | .00455 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6005.8** | **76931.** | **5669.2** |
| Stddev | 7.7 | 474. | 13.8 |
| %RSD | .12870 | .61639 | .24257 |
| #1 | 6000.4 | 76595. | 5659.5 |
| #2 | 6011.3 | 77266. | 5678.9 |

Sample Name: 280-41962-C-4-C Acquired: 5/15/2013 1:05:17 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **.78980** | **-.00098** | **.22757** | **.46946** | **.00002** | **-.00160** | **3.7697** | **.00009** |
| Stddev | .00042 | .00398 | .00383 | .00084 | .00182 | .00002 | .00459 | .0001 | .00019 |
| %RSD | 70.851 | .50420 | 391.07 | .36955 | .38775 | 134.42 | 286.08 | .00389 | 220.41 |
| #1 | -.00089 | .79262 | -.00369 | .22698 | .46817 | .00000 | .00164 | 3.7698 | .00022 |
| #2 | -.00030 | .78698 | .00173 | .22817 | .47074 | .00003 | -.00485 | 3.7696 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00160** | **.00282** | **1.1876** | **3.5223** | **.14143** | **.91630** | **.02910** | **.00049** |
| Stddev | .00008 | .00027 | .00020 | .0038 | .0826 | .00002 | .00705 | .00035 | .00018 |
| %RSD | 9.5531 | 16.925 | 7.0931 | .31911 | 2.3456 | .01256 | .76970 | 1.1903 | 36.185 |
| #1 | .00076 | .00140 | .00268 | 1.1849 | 3.4639 | .14142 | .92129 | .02934 | .00037 |
| #2 | .00087 | .00179 | .00296 | 1.1903 | 3.5807 | .14144 | .91131 | .02885 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **629.42** | **.00116** | **.20189** | **.00036** | **.28858** | **-.00166** | **-.00260** | **10.449** | **.00017** |
| Stddev | 2.51 | .00015 | .00107 | .00073 | .00181 | .00095 | .00137 | .009 | .00074 |
| %RSD | .39931 | 13.319 | .52826 | 200.20 | .62693 | 57.093 | 52.611 | .08702 | 435.00 |
| #1 | 627.64 | .00127 | .20114 | .00088 | .28730 | -.00099 | -.00357 | 10.443 | -.00035 |
| #2 | 631.19 | .00105 | .20265 | -.00015 | .28986 | -.00234 | -.00163 | 10.456 | .00069 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58991** | **-.00075** | **.01194** | **.00057** | **.00578** | **.00177** | **.00859** | **.00170** |
| Stddev | .00275 | .00006 | .00043 | .00038 | .01457 | .00037 | .00045 | .00340 |
| %RSD | .46563 | 7.3715 | 3.5792 | 67.410 | 251.85 | 21.039 | 5.1970 | 199.97 |
| #1 | .58797 | -.00071 | .01224 | .00030 | .01608 | .00203 | .00891 | -.00070 |
| #2 | .59185 | -.00079 | .01163 | .00084 | -.00452 | .00150 | .00827 | .00411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6014.8** | **77605.** | **5689.5** |
| Stddev | 31.3 | 541. | 18.1 |
| %RSD | .51971 | .69757 | .31861 |
| #1 | 5992.7 | 77223. | 5702.4 |
| #2 | 6036.9 | 77988. | 5676.7 |

Sample Name: 280-41962-C-5-C  Acquired: 5/15/2013 1:08:21  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00091** | **.76800** | **.00524** | **.22570** | **.46719** | **.00006** | **-.00108** | **3.7674** | **-.00006** |
| Stddev | .00054 | .00022 | .00141 | .00111 | .00061 | .00000 | .00272 | .0065 | .00018 |
| %RSD | 59.654 | .02804 | 26.955 | .49108 | .13138 | 1.3189 | 250.47 | .17315 | 287.13 |
| #1 | -.00129 | .76815 | .00424 | .22492 | .46676 | .00006 | -.00300 | 3.7628 | -.00019 |
| #2 | -.00052 | .76785 | .00623 | .22649 | .46762 | .00006 | .00084 | 3.7720 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **.00153** | **.00284** | **1.1556** | **3.6135** | **.14372** | **.91648** | **.02784** | **.00037** |
| Stddev | .00027 | .00009 | .00004 | .0013 | .0446 | .00207 | .00168 | .00004 | .00013 |
| %RSD | 35.555 | 5.9663 | 1.4800 | .10830 | 1.2335 | 1.4412 | .18365 | .15007 | 34.202 |
| #1 | .00057 | .00146 | .00281 | 1.1565 | 3.5820 | .14225 | .91529 | .02787 | .00028 |
| #2 | .00095 | .00159 | .00287 | 1.1547 | 3.6450 | .14518 | .91767 | .02781 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **634.06** | **.00125** | **.19699** | **.00111** | **.28004** | **-.00087** | **-.00227** | **10.448** | **-.00017** |
| Stddev | .86 | .00008 | .00037 | .00109 | .00240 | .00194 | .00230 | .068 | .00017 |
| %RSD | .13525 | 6.7248 | .18831 | 97.435 | .85621 | 223.35 | 101.40 | .65019 | 97.109 |
| #1 | 633.46 | .00119 | .19725 | .00035 | .27834 | .00050 | -.00390 | 10.400 | -.00005 |
| #2 | 634.67 | .00131 | .19673 | .00188 | .28173 | -.00223 | -.00064 | 10.496 | -.00029 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59276** | **-.00105** | **.01127** | **.00041** | **.03759** | **.00174** | **.00932** | **.00071** |
| Stddev | .00178 | .00051 | .00024 | .00050 | .02441 | .00009 | .00061 | .00198 |
| %RSD | .29951 | 48.872 | 2.1363 | 122.98 | 64.920 | 5.3370 | 6.5064 | 277.71 |
| #1 | .59150 | -.00141 | .01144 | .00076 | .05485 | .00180 | .00974 | -.00069 |
| #2 | .59401 | -.00069 | .01110 | .00005 | .02034 | .00167 | .00889 | .00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5997.5** | **77724.** | **5668.2** |
| Stddev | 5.4 | 85. | 16.3 |
| %RSD | .09047 | .10993 | .28814 |
| #1 | 6001.3 | 77663. | 5679.8 |
| #2 | 5993.6 | 77784. | 5656.7 |

Sample Name: 280-41962-C-6-C Acquired: 5/15/2013 1:11:26 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00128** | **.00639** | **-.00250** | **.15810** | **.11425** | **-.00003** | **-.00071** | **26.898** | **-.00001** |
| Stddev | .00047 | .00043 | .00004 | .00023 | .00001 | .00006 | .00061 | .066 | .00006 |
| %RSD | 36.644 | 6.7234 | 1.7229 | .14761 | .00579 | 185.23 | 85.254 | .24670 | 550.66 |
| #1 | -.00161 | .00670 | -.00247 | .15793 | .11426 | .00001 | -.00115 | 26.945 | -.00006 |
| #2 | -.00095 | .00609 | -.00253 | .15826 | .11425 | -.00008 | -.00028 | 26.851 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00057** | **.00555** | **1.4666** | **4.4206** | **.08628** | **10.316** | **.00759** | **.00462** |
| Stddev | .00030 | .00014 | .00014 | .0055 | .0395 | .00024 | .003 | .00002 | .00007 |
| %RSD | 36.680 | 24.644 | 2.5087 | .37631 | .89441 | .27839 | .02968 | .29701 | 1.5937 |
| #1 | .00103 | .00067 | .00545 | 1.4627 | 4.3927 | .08645 | 10.318 | .00757 | .00467 |
| #2 | .00060 | .00047 | .00565 | 1.4705 | 4.4486 | .08611 | 10.313 | .00760 | .00456 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **557.07** | **.00180** | **.22526** | **.00084** | **1.8852** | **-.00147** | **-.00298** | **8.3629** | **-.00076** |
| Stddev | 2.20 | .00015 | .00288 | .00060 | .0016 | .00093 | .00015 | .0058 | .00048 |
| %RSD | .39420 | 8.3272 | 1.2783 | 71.656 | .08612 | 63.478 | 5.0728 | .06928 | 63.514 |
| #1 | 558.62 | .00170 | .22729 | .00126 | 1.8863 | -.00213 | -.00287 | 8.3588 | -.00042 |
| #2 | 555.51 | .00191 | .22322 | .00041 | 1.8840 | -.00081 | -.00309 | 8.3670 | -.00110 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57510** | **-.00141** | **.00045** | **.00002** | **.05320** | **.00467** | **.00450** | **.00008** |
| Stddev | .00098 | .00286 | .00046 | .00070 | .00901 | .00004 | .00070 | .00000 |
| %RSD | .17093 | 203.19 | 102.50 | 3551.9 | 16.931 | .81748 | 15.600 | .08153 |
| #1 | .57580 | -.00343 | .00012 | .00051 | .05957 | .00470 | .00500 | .00008 |
| #2 | .57441 | .00061 | .00078 | -.00048 | .04683 | .00465 | .00401 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5947.7** | **77478.** | **5650.7** |
| Stddev | 5.6 | 102. | 10.3 |
| %RSD | .09438 | .13216 | .18183 |
| #1 | 5951.6 | 77551. | 5643.4 |
| #2 | 5943.7 | 77406. | 5657.9 |

Sample Name: 280-41962-C-7-C Acquired: 5/15/2013 1:14:28 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173474 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00256** | **-.00215** | **.01533** | **.13597** | **-.00008** | **-.00552** | **215.29** | **.00016** |
| Stddev | .00100 | .00037 | .00277 | .00025 | .00011 | .00001 | .00174 | 1.23 | .00016 |
| %RSD | 1768.4 | 14.353 | 128.57 | 1.6355 | .07882 | 10.817 | 31.458 | .56913 | 101.32 |
| #1 | .00065 | .00282 | -.00411 | .01515 | .13589 | -.00009 | -.00675 | 214.42 | .00027 |
| #2 | -.00076 | .00230 | -.00020 | .01551 | .13605 | -.00008 | -.00429 | 216.15 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **.00020** | **.00223** | **.61075** | **1.4743** | **.01126** | **51.584** | **.01445** | **.00088** |
| Stddev | .00022 | .00010 | .00015 | .00260 | .0001 | .00179 | .151 | .00004 | .00019 |
| %RSD | 24.875 | 49.027 | 6.9300 | .42566 | .00990 | 15.907 | .29247 | .28007 | 21.566 |
| #1 | .00102 | .00013 | .00212 | .60891 | 1.4742 | .00999 | 51.691 | .01448 | .00102 |
| #2 | .00072 | .00027 | .00234 | .61259 | 1.4745 | .01252 | 51.477 | .01442 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **74.594** | **.00092** | **.15710** | **.00108** | **8.6527** | **-.00148** | **.00187** | **6.8443** | **-.00095** |
| Stddev | .046 | .00014 | .00410 | .00057 | .0061 | .00035 | .00040 | .0381 | .00054 |
| %RSD | .06160 | 15.633 | 2.6092 | 52.238 | .07033 | 23.548 | 21.304 | .55717 | 56.781 |
| #1 | 74.627 | .00102 | .16000 | .00148 | 8.6484 | -.00123 | .00159 | 6.8173 | -.00133 |
| #2 | 74.562 | .00082 | .15421 | .00068 | 8.6570 | -.00172 | .00215 | 6.8712 | -.00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1364** | **.00020** | **.00103** | **.00072** | **.00468** | **.00096** | **.00525** | **.00169** |
| Stddev | .0065 | .00089 | .00067 | .00016 | .01409 | .00005 | .00012 | .00282 |
| %RSD | .20748 | 437.66 | 64.478 | 22.388 | 300.88 | 5.3341 | 2.2242 | 166.70 |
| #1 | 3.1318 | -.00043 | .00056 | .00084 | -.00528 | .00100 | .00517 | .00368 |
| #2 | 3.1410 | .00083 | .00150 | .00061 | .01465 | .00093 | .00533 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5975.7** | **78111.** | **5573.4** |
| Stddev | 45.0 | 194. | 51.2 |
| %RSD | .75351 | .24832 | .91885 |
| #1 | 5943.9 | 77974. | 5609.6 |
| #2 | 6007.5 | 78248. | 5537.2 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 1:16:54 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00783** | **50.435** | **-.00071** | **-.00578** | **.00099** | **.00002** | **1.0358** | **.04585** | **-.00071** | **.00224** | **.00006** | **.00168** | **50.993** |
| Stddev | .00001 | .286 | .00437 | .00019 | .00017 | .00000 | .0051 | .02927 | .00007 | .00015 | .00001 | .00027 | .176 |
| %RSD | .14771 | .56673 | 619.15 | 3.2436 | 17.069 | 7.9555 | .49587 | 63.844 | 9.5121 | 6.4991 | 15.362 | 15.821 | .34495 |
| #1 | .00783 | 50.637 | -.00380 | -.00565 | .00087 | .00002 | 1.0394 | .06655 | -.00076 | .00214 | .00007 | .00150 | 51.117 |
| #2 | .00782 | 50.233 | .00238 | -.00592 | .00111 | .00002 | 1.0322 | .02515 | -.00067 | .00234 | .00005 | .00187 | 50.868 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07503** | **.00566** | **-.00945** | **-.00065** | **-.00213** | **259.54** | **.00138** | **-.00280** | **.00017** | **5.4239** | **-.00121** | **-.00086** | **.01675** |
| Stddev | .00812 | .00133 | .00260 | .00000 | .00026 | .99 | .00005 | .00116 | .00017 | .0272 | .00073 | .00312 | .00335 |
| %RSD | 10.826 | 23.522 | 27.518 | .33298 | 12.252 | .38271 | 3.2789 | 41.553 | 102.06 | .50055 | 59.845 | 364.21 | 20.012 |
| #1 | .06929 | .00472 | -.00761 | -.00065 | -.00231 | 260.24 | .00142 | -.00198 | .00029 | 5.4431 | -.00173 | -.00307 | .01912 |
| #2 | .08078 | .00660 | -.01129 | -.00065 | -.00194 | 258.84 | .00135 | -.00362 | .00005 | 5.4047 | -.00070 | .00135 | .01438 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00092** | **5.1804** | **.00230** | **-.00080** | **10.150** | **-.00013** | **.00388** | **-.03799** |
| Stddev | .00011 | .00047 | .0030 | .00018 | .00002 | .007 | .00031 | .00015 | .00154 |
| %RSD | 26.593 | 50.592 | .05788 | 7.9812 | 2.2679 | .06437 | 238.28 | 3.9753 | 4.0512 |
| #1 | .00032 | .00125 | 5.1825 | .00217 | -.00081 | 10.146 | -.00035 | .00399 | -.03907 |
| #2 | .00047 | .00059 | 5.1783 | .00243 | -.00079 | 10.155 | .00009 | .00377 | -.03690 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6075.8** | **78498.** | **5712.6** |
| Stddev | 26.3 | 125. | 28.2 |
| %RSD | .43325 | .15922 | .49360 |
| #1 | 6057.2 | 78410. | 5692.6 |
| #2 | 6094.5 | 78586. | 5732.5 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 1:19:22 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53132** | **.49015** | **1.0432** | **.50561** | **.51015** | **.48888** | **.00068** | **5.0947** | **.51490** | **.51551** | **.49952** | **.50721** | **2.4827** |
| Stddev | .00032 | .00224 | .0047 | .00061 | .00258 | .00170 | .00260 | .0121 | .00004 | .00001 | .00053 | .00011 | .0065 |
| %RSD | .05942 | .45798 | .45461 | .12022 | .50588 | .34685 | 380.82 | .23837 | .00776 | .00131 | .10614 | .02231 | .26262 |
| #1 | .53109 | .49174 | 1.0465 | .50604 | .51198 | .49008 | -.00116 | 5.1033 | .51487 | .51551 | .49990 | .50713 | 2.4873 |
| #2 | .53154 | .48857 | 1.0398 | .50518 | .50833 | .48769 | .00252 | 5.0862 | .51493 | .51550 | .49915 | .50729 | 2.4781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.523** | **1.0389** | **21.455** | **.52543** | **.49120** | **5.3458** | **.50987** | **1.0136** | **1.0215** | **-.00197** | **1.0308** | **1.0324** | **5.0216** |
| Stddev | .374 | .0035 | .034 | .00134 | .00156 | .0436 | .00086 | .0000 | .0051 | .00206 | .0034 | .0058 | .0216 |
| %RSD | .72569 | .33304 | .16043 | .25417 | .31685 | .81601 | .16889 | .00399 | .50181 | 104.57 | .32938 | .56320 | .43103 |
| #1 | 51.787 | 1.0414 | 21.430 | .52449 | .49230 | 5.3766 | .51048 | 1.0136 | 1.0252 | -.00342 | 1.0332 | 1.0365 | 5.0369 |
| #2 | 51.259 | 1.0365 | 21.479 | .52638 | .49010 | 5.3149 | .50927 | 1.0136 | 1.0179 | -.00051 | 1.0284 | 1.0283 | 5.0063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99771** | **.49383** | **.00022** | **.51156** | **.98536** | **.02758** | **.51023** | **.54557** | **.49866** |
| Stddev | .00530 | .00441 | .00001 | .00030 | .00314 | .01023 | .00092 | .00115 | .00112 |
| %RSD | .53093 | .89253 | 5.4889 | .05858 | .31871 | 37.078 | .18117 | .21018 | .22542 |
| #1 | 1.0015 | .49694 | .00021 | .51135 | .98758 | .02035 | .50958 | .54638 | .49945 |
| #2 | .99397 | .49071 | .00023 | .51177 | .98314 | .03482 | .51089 | .54476 | .49786 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6204.9** | **80171.** | **5659.9** |
| Stddev | 15.8 | 119. | 50.2 |
| %RSD | .25397 | .14823 | .88755 |
| #1 | 6193.7 | 80087. | 5624.4 |
| #2 | 6216.0 | 80255. | 5695.4 |

Sample Name: CCB Acquired: 5/15/2013 1:21:36 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00000** | **-.00262** | F **-.00702** | W **.00061** | **.00001** | **.00008** | **.00017** | **.00001** | **.00032** | **-.00016** |
| Stddev | .00006 | .00013 | .00245 | .00008 | .00028 | .00004 | .00054 | .00600 | .00019 | .00052 | .00020 |
| %RSD | 77.946 | 14691. | 93.272 | 1.1272 | 45.544 | 365.90 | 682.08 | 3472.9 | 1478.9 | 161.66 | 126.45 |
| #1 | .00012 | .00009 | -.00435 | -.00696 | .00081 | .00004 | .00047 | .00442 | -.00012 | .00069 | -.00030 |
| #2 | .00004 | -.00009 | -.00089 | -.00707 | .00042 | -.00002 | -.00031 | -.00407 | .00015 | -.00005 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00752** | **-.01934** | W **.00434** | **-.00188** | **.00003** | **.00001** | F **.28828** | **-.00026** | **-.00898** | **.00110** |
| Stddev | .00031 | .00122 | .02763 | .00048 | .00194 | .00003 | .00017 | .01222 | .00006 | .00160 | .00024 |
| %RSD | 63.780 | 16.275 | 142.88 | 10.956 | 102.98 | 94.968 | 1307.6 | 4.2401 | 24.543 | 17.782 | 21.610 |
| #1 | .00026 | .00666 | .00020 | .00467 | -.00051 | .00006 | -.00011 | .27964 | -.00021 | -.01011 | .00093 |
| #2 | .00070 | .00839 | -.03888 | .00400 | -.00325 | .00001 | .00014 | .29693 | -.00030 | -.00785 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00156** | **-.00188** | **-.00101** | **.00490** | **-.00013** | **.00001** | **.00036** | **-.00049** | **-.00097** | **.02904** | **.00026** |
| Stddev | .00125 | .00187 | .00027 | .01116 | .00038 | .00015 | .00011 | .00011 | .00064 | .01498 | .00008 |
| %RSD | 79.963 | 99.214 | 26.504 | 227.71 | 295.06 | 1966.3 | 31.056 | 23.525 | 65.430 | 51.580 | 31.785 |
| #1 | -.00244 | -.00320 | -.00082 | -.00299 | .00014 | .00012 | .00044 | -.00057 | -.00052 | .01845 | .00032 |
| #2 | -.00068 | -.00056 | -.00120 | .01279 | -.00040 | -.00010 | .00028 | -.00041 | -.00142 | .03963 | .00020 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00272** | **.00127** |
| Stddev | .00001 | .00172 |
| %RSD | .22474 | 135.24 |
| #1 | .00273 | .00249 |
| #2 | .00272 | .00006 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6211.6** | **80762.** | **5689.0** |
| Stddev | 5.2 | 13. | 39.2 |
| %RSD | .08444 | .01573 | .68929 |
| #1 | 6215.3 | 80771. | 5661.2 |
| #2 | 6207.9 | 80753. | 5716.7 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 1:24:05 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01011** | **.09868** | **.01339** | **.09204** | **.01081** | **.00095** | **.10461** | **.19977** | **.00515** | **.01083** | **.01014** |
| Stddev | .00101 | .00009 | .00045 | .00015 | .00006 | .00000 | .00025 | .00065 | .00011 | .00018 | .00013 |
| %RSD | 10.027 | .09590 | 3.3588 | .16594 | .58212 | .06650 | .23768 | .32420 | 2.1958 | 1.6798 | 1.2538 |
| #1 | .00939 | .09861 | .01307 | .09194 | .01076 | .00095 | .10444 | .20023 | .00523 | .01096 | .01005 |
| #2 | .01082 | .09875 | .01371 | .09215 | .01085 | .00095 | .10479 | .19931 | .00507 | .01070 | .01023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01575** | **.10258** | **3.1753** | F **.01693** | **.21806** | **.01072** | **.01929** | W **1.2717** | **.04110** | **2.9811** | W **.01081** |
| Stddev | .00002 | .00302 | .0526 | .00120 | .00228 | .00001 | .00004 | .0062 | .00002 | .0120 | .00026 |
| %RSD | .12777 | 2.9449 | 1.6562 | 7.1156 | 1.0470 | .13340 | .21163 | .48489 | .05455 | .40336 | 2.3693 |
| #1 | .01576 | .10044 | 3.2125 | .01608 | .21968 | .01073 | .01926 | 1.2761 | .04108 | 2.9726 | .01063 |
| #2 | .01573 | .10471 | 3.1381 | .01778 | .21645 | .01071 | .01932 | 1.2673 | .04111 | 2.9896 | .01099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | 1.0000 | | | .00900 |
| Range | | | | 30.000% | | | | 20.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **.00988** | **.01530** | **.51416** | **.10003** | **.00985** | **.01623** | **.00988** | **.01318** | F **.11014** | **.01039** |
| Stddev | .00171 | .00188 | .00149 | .00234 | .00045 | .00003 | .00084 | .00036 | .00141 | .00599 | .00019 |
| %RSD | 247.01 | 19.020 | 9.7733 | .45418 | .44913 | .31906 | 5.1549 | 3.6042 | 10.692 | 5.4360 | 1.7801 |
| #1 | -.00190 | .00855 | .01424 | .51581 | .10035 | .00983 | .01682 | .00963 | .01417 | .10590 | .01052 |
| #2 | .00052 | .01121 | .01635 | .51251 | .09971 | .00987 | .01564 | .01013 | .01218 | .11437 | .01026 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02466** | **.01594** |
| Stddev | .00032 | .00204 |
| %RSD | 1.2838 | 12.781 |
| #1 | .02488 | .01738 |
| #2 | .02443 | .01450 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6255.8** | **81689.** | **5718.5** |
| Stddev | 2.8 | 105. | 25.1 |
| %RSD | .04404 | .12799 | .43935 |
| #1 | 6257.8 | 81763. | 5700.8 |
| #2 | 6253.9 | 81615. | 5736.3 |

Sample Name: MB 280-172702/1-A Acquired: 5/15/2013 1:26:29 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00228** | **.00088** | W **-.00753** | **.00091** | **-.00001** | **-.00120** | **.00598** | **-.00002** |
| Stddev | .00058 | .00014 | .00138 | .00022 | .00009 | .00002 | .00022 | .00289 | .00012 |
| %RSD | 230.69 | 6.2304 | 156.63 | 2.8915 | 9.9920 | 120.96 | 18.586 | 48.240 | 584.46 |
| #1 | -.00066 | .00218 | -.00009 | -.00768 | .00085 | -.00002 | -.00136 | .00802 | .00006 |
| #2 | .00016 | .00238 | .00185 | -.00737 | .00098 | -.00000 | -.00104 | .00394 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **-.00001** | **.00046** | **.01596** | **-.05866** | **.00493** | **.00235** | **.00009** | **-.00006** |
| Stddev | .00015 | .00001 | .00005 | .00209 | .03989 | .00035 | .00101 | .00003 | .00005 |
| %RSD | 61.454 | 120.75 | 10.861 | 13.125 | 67.992 | 7.1433 | 42.789 | 37.303 | 88.213 |
| #1 | .00014 | -.00000 | .00049 | .01744 | -.08687 | .00518 | .00164 | .00012 | -.00002 |
| #2 | .00034 | -.00002 | .00042 | .01447 | -.03046 | .00468 | .00306 | .00007 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24948** | **.00011** | F **.14699** | **.00020** | **.00187** | **-.00120** | **-.00192** | **.02411** | **.00007** |
| Stddev | .01518 | .00014 | .00146 | .00067 | .00112 | .00028 | .00040 | .00323 | .00031 |
| %RSD | 6.0833 | 126.56 | .99052 | 342.34 | 59.980 | 23.634 | 21.023 | 13.410 | 466.91 |
| #1 | .23875 | .00022 | .14596 | .00067 | .00107 | -.00100 | -.00164 | .02182 | .00028 |
| #2 | .26021 | .00001 | .14802 | -.00028 | .00266 | -.00140 | -.00221 | .02640 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **-.00104** | **-.00028** | **-.00148** | **.02930** | **-.00023** | **.00247** | **.00038** |
| Stddev | .00012 | .00067 | .00004 | .00000 | .00403 | .00051 | .00001 | .00113 |
| %RSD | 355.66 | 65.042 | 14.869 | .28587 | 13.757 | 217.20 | .53626 | 297.32 |
| #1 | -.00005 | -.00151 | -.00030 | -.00149 | .03215 | -.00059 | .00246 | -.00042 |
| #2 | .00011 | -.00056 | -.00025 | -.00148 | .02645 | .00013 | .00248 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6298.6** | **82016.** | **5753.8** |
| Stddev | 10.3 | 235. | 8.7 |
| %RSD | .16315 | .28702 | .15154 |
| #1 | 6291.3 | 81850. | 5760.0 |
| #2 | 6305.9 | 82183. | 5747.7 |

Sample Name: LCS 280-172702/2-A Acquired: 5/15/2013 1:28:58 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.05848** | **1.9289** | **1.0791** | **1.0825** | **2.0994** | **.05053** | **2.1375** | **51.280** | **.10925** |
| Stddev | .00034 | .0049 | .0015 | .0003 | .0033 | .00002 | .0023 | .032 | .00030 |
| %RSD | .57962 | .25444 | .14100 | .02778 | .15508 | .03769 | .10648 | .06275 | .27834 |
| #1 | .05824 | 1.9324 | 1.0801 | 1.0823 | 2.1017 | .05054 | 2.1392 | 51.302 | .10947 |
| #2 | .05872 | 1.9254 | 1.0780 | 1.0827 | 2.0971 | .05051 | 2.1359 | 51.257 | .10904 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .05750 | | | | | | | | |
| Low Limit | .04300 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51990** | **.20571** | **.26019** | **1.0223** | **52.968** | **1.0528** | **54.863** | **.53317** | **1.0225** |
| Stddev | .00024 | .00010 | .00009 | .0007 | .006 | .0036 | .080 | .00068 | .0000 |
| %RSD | .04539 | .04813 | .03364 | .06592 | .01088 | .33831 | .14647 | .12704 | .00112 |
| #1 | .52007 | .20564 | .26013 | 1.0228 | 52.964 | 1.0553 | 54.806 | .53269 | 1.0225 |
| #2 | .51973 | .20578 | .26025 | 1.0218 | 52.972 | 1.0502 | 54.920 | .53365 | 1.0225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.736** | **.51403** | **10.981** | **.51982** | **-.00396** | F **.54423** | **2.1676** | **10.528** | **2.0710** |
| Stddev | .520 | .00051 | .011 | .00009 | .00525 | .00201 | .0193 | .047 | .0074 |
| %RSD | .96811 | .09911 | .09740 | .01771 | 132.70 | .36890 | .89013 | .44398 | .35672 |
| #1 | 54.104 | .51367 | 10.989 | .51976 | -.00024 | .54565 | 2.1812 | 10.561 | 2.0762 |
| #2 | 53.368 | .51439 | 10.973 | .51989 | -.00767 | .54281 | 2.1539 | 10.495 | 2.0658 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .54000 | | | |
| Low Limit | | | | | | .44000 | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0132** | **1.0529** | **1.0584** | **2.0075** | **2.1465** | **.52976** | F **.55285** | **.50746** |
| Stddev | .0048 | .0011 | .0014 | .0069 | .0248 | .00125 | .00007 | .00056 |
| %RSD | .46965 | .10727 | .12925 | .34268 | 1.1568 | .23586 | .01247 | .11083 |
| #1 | 1.0166 | 1.0521 | 1.0574 | 2.0124 | 2.1640 | .52888 | .55280 | .50706 |
| #2 | 1.0099 | 1.0537 | 1.0593 | 2.0026 | 2.1289 | .53065 | .55290 | .50786 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | .55000 | |
| Low Limit | | | | | | | .42500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6074.6** | **79353.** | **5681.2** |
| Stddev | .4 | 118. | 23.5 |
| %RSD | .00702 | .14847 | .41345 |
| #1 | 6074.3 | 79270. | 5664.6 |
| #2 | 6074.9 | 79436. | 5697.8 |

Sample Name: 280-41791-D-1-A Acquired: 5/15/2013 1:31:11 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00043** | **.14745** | **-.00234** | **.00911** | **.02583** | **.00005** | **-.00145** | **.77244** | **.00009** |
| Stddev | .00063 | .00095 | .00013 | .00060 | .00021 | .00000 | .00221 | .00366 | .00018 |
| %RSD | 145.95 | .64417 | 5.6858 | 6.6341 | .81246 | 5.5887 | 151.81 | .47356 | 205.42 |
| #1 | -.00088 | .14812 | -.00224 | .00954 | .02598 | .00005 | .00011 | .77502 | -.00004 |
| #2 | .00001 | .14678 | -.00243 | .00868 | .02568 | .00005 | -.00302 | .76985 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00039** | **.00065** | **.11595** | **.59426** | **.00628** | **1.1033** | **.01096** | **.00002** |
| Stddev | .00002 | .00010 | .00052 | .00095 | .01284 | .00109 | .0045 | .00000 | .00035 |
| %RSD | 5.0936 | 26.788 | 80.071 | .81864 | 2.1607 | 17.405 | .40681 | .01815 | 1975.6 |
| #1 | .00042 | .00046 | .00102 | .11662 | .60334 | .00705 | 1.1065 | .01096 | -.00023 |
| #2 | .00045 | .00032 | .00028 | .11528 | .58518 | .00550 | 1.1001 | .01096 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.5159** | **.00044** | **.15164** | **.00011** | **.67896** | **-.00075** | **-.00442** | **2.9022** | **-.00032** |
| Stddev | .0828 | .00013 | .00057 | .00066 | .00297 | .00135 | .00102 | .0239 | .00033 |
| %RSD | 1.5006 | 28.937 | .37841 | 577.59 | .43689 | 180.55 | 22.972 | .82403 | 105.16 |
| #1 | 5.5744 | .00053 | .15124 | .00058 | .67686 | .00021 | -.00370 | 2.9191 | -.00055 |
| #2 | 5.4574 | .00035 | .15205 | -.00035 | .68106 | -.00171 | -.00514 | 2.8853 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00906** | **-.00030** | **.00130** | **-.00003** | **.01279** | **.00011** | **.00485** | **.00070** |
| Stddev | .00009 | .00035 | .00000 | .00205 | .00084 | .00024 | .00027 | .00042 |
| %RSD | .95807 | 114.27 | .21535 | 7552.0 | 6.5912 | 221.67 | 5.5702 | 60.061 |
| #1 | .00912 | -.00006 | .00130 | -.00148 | .01219 | -.00006 | .00465 | .00100 |
| #2 | .00899 | -.00055 | .00130 | .00142 | .01338 | .00028 | .00504 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6302.1** | **82309.** | **5811.8** |
| Stddev | 5.2 | 175. | 54.0 |
| %RSD | .08212 | .21251 | .92901 |
| #1 | 6305.8 | 82185. | 5773.6 |
| #2 | 6298.4 | 82433. | 5849.9 |

Sample Name: sd 280-41791-D-1-A@5 Acquired: 5/15/2013 1:33:38 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.29078** | **-.00043** | **-.00383** | **.00586** | **-.00000** | **-.00090** | **.15088** | **.00011** |
| Stddev | .00046 | .00171 | .00107 | .00034 | .00045 | .00007 | .00149 | .00196 | .00018 |
| %RSD | 589.68 | .58946 | 250.50 | 8.8142 | 7.6589 | 5353.5 | 164.77 | 1.2974 | 161.43 |
| #1 | .00025 | .28956 | .00033 | -.00359 | .00554 | .00005 | -.00195 | .15226 | -.00002 |
| #2 | -.00040 | .29199 | -.00119 | -.00406 | .00617 | -.00005 | .00015 | .14950 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00008** | **.00065** | **.04780** | **.05775** | **.00542** | **.23529** | **.00221** | **.00001** |
| Stddev | .00016 | .00011 | .00010 | .00077 | .00259 | .00220 | .00322 | .00009 | .00009 |
| %RSD | 49.105 | 142.40 | 16.073 | 1.6059 | 4.4808 | 40.642 | 1.3707 | 4.0801 | 761.18 |
| #1 | .00043 | .00016 | .00073 | .04725 | .05958 | .00386 | .23757 | .00214 | -.00005 |
| #2 | .00021 | -.00000 | .00058 | .04834 | .05592 | .00698 | .23301 | .00227 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2265** | **-.00012** | **.02522** | **.00145** | **.12833** | **-.00105** | **-.00002** | **.92038** | **-.00081** |
| Stddev | .0112 | .00006 | .00081 | .00023 | .00079 | .00134 | .00169 | .01183 | .00064 |
| %RSD | .90921 | 52.179 | 3.2245 | 15.974 | .61495 | 127.10 | 10185. | 1.2853 | 79.591 |
| #1 | 1.2344 | -.00008 | .02580 | .00161 | .12889 | -.00011 | .00118 | .92874 | -.00035 |
| #2 | 1.2186 | -.00016 | .02465 | .00128 | .12777 | -.00200 | -.00121 | .91201 | -.00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00190** | **.00025** | **.00620** | **-.00144** | **.02977** | **-.00001** | **.00342** | **.00190** |
| Stddev | .00006 | .00037 | .00043 | .00098 | .00821 | .00000 | .00016 | .00252 |
| %RSD | 2.9575 | 150.86 | 6.9341 | 68.211 | 27.594 | 52.351 | 4.6737 | 132.91 |
| #1 | .00194 | -.00002 | .00590 | -.00214 | .02396 | -.00000 | .00354 | .00011 |
| #2 | .00186 | .00051 | .00651 | -.00075 | .03557 | -.00001 | .00331 | .00368 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6233.3** | **81490.** | **5724.5** |
| Stddev | 20.6 | 148. | 22.3 |
| %RSD | .33094 | .18218 | .38887 |
| #1 | 6247.8 | 81385. | 5708.8 |
| #2 | 6218.7 | 81595. | 5740.2 |

Sample Name: 280-41791-D-1-B MS  Acquired: 5/15/2013 1:36:06  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05816** | W **2.7173** | F **2.9666** | **1.0652** | **1.0834** | **2.1191** | **.04999** | **2.1162** | **51.689** |
| Stddev | .00071 | .0056 | .0076 | .0027 | .0002 | .0004 | .00022 | .0003 | .029 |
| %RSD | 1.2169 | .20485 | .25494 | .24920 | .01507 | .02002 | .44993 | .01418 | .05602 |
| #1 | .05766 | 2.7213 | 2.9720 | 1.0671 | 1.0835 | 2.1194 | .04983 | 2.1164 | 51.669 |
| #2 | .05866 | 2.7134 | 2.9613 | 1.0634 | 1.0832 | 2.1188 | .05015 | 2.1160 | 51.710 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.7000 | 1000.0 | | | | | | |
| Low Limit | | -.05000 | 3.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10812** | **.51564** | **.20429** | **.25822** | **1.1240** | **53.481** | **1.0481** | **55.358** | **.53807** |
| Stddev | .00021 | .00060 | .00038 | .00036 | .0032 | .095 | .0031 | .022 | .00083 |
| %RSD | .19777 | .11631 | .18525 | .14103 | .28369 | .17847 | .29516 | .03971 | .15484 |
| #1 | .10828 | .51606 | .20455 | .25796 | 1.1217 | 53.548 | 1.0459 | 55.342 | .53748 |
| #2 | .10797 | .51521 | .20402 | .25847 | 1.1262 | 53.413 | 1.0503 | 55.373 | .53866 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0123** | **58.368** | **.50992** | **10.803** | **.51424** | **.66272** | **.53768** | **2.1393** | **14.170** |
| Stddev | .0004 | .158 | .00112 | .012 | .00022 | .00062 | .00220 | .0082 | .029 |
| %RSD | .03844 | .27137 | .21928 | .10725 | .04302 | .09428 | .40958 | .38274 | .20518 |
| #1 | 1.0126 | 58.256 | .51071 | 10.811 | .51409 | .66316 | .53923 | 2.1451 | 14.191 |
| #2 | 1.0120 | 58.480 | .50913 | 10.794 | .51440 | .66228 | .53612 | 2.1335 | 14.150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0450** | **1.0148** | **1.0487** | **1.0523** | **1.9871** | **2.0829** | **.52299** | **.54986** | **.50340** |
| Stddev | .0100 | .0000 | .0007 | .0030 | .0076 | .0484 | .00068 | .00214 | .00389 |
| %RSD | .49014 | .00189 | .06862 | .28360 | .38045 | 2.3238 | .12912 | .38856 | .77263 |
| #1 | 2.0521 | 1.0148 | 1.0482 | 1.0502 | 1.9925 | 2.0487 | .52252 | .54835 | .50065 |
| #2 | 2.0380 | 1.0148 | 1.0493 | 1.0544 | 1.9818 | 2.1171 | .52347 | .55137 | .50615 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6095.0** | **79209.** | **5686.5** |
| Stddev | 15.3 | 9. | 17.5 |
| %RSD | .25025 | .01154 | .30853 |
| #1 | 6084.2 | 79216. | 5674.1 |
| #2 | 6105.8 | 79203. | 5698.9 |

Sample Name: 280-41791-D-1-C MSD  Acquired: 5/15/2013 1:38:18  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05652** | W **2.7223** | F **2.9849** | **1.0434** | **1.0880** | **2.0623** | **.04856** | **2.0697** | **50.282** |
| Stddev | .00036 | .0001 | .0161 | .0049 | .0005 | .0042 | .00000 | .0024 | .138 |
| %RSD | .62943 | .00465 | .54021 | .46753 | .04471 | .20238 | .00793 | .11759 | .27510 |
| #1 | .05677 | 2.7222 | 2.9963 | 1.0400 | 1.0876 | 2.0594 | .04856 | 2.0679 | 50.184 |
| #2 | .05627 | 2.7224 | 2.9735 | 1.0469 | 1.0883 | 2.0653 | .04856 | 2.0714 | 50.380 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.7000 | 1000.0 | | | | | | |
| Low Limit | | -.05000 | 3.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10562** | **.50260** | **.19948** | **.25313** | **1.1257** | **51.840** | **1.0199** | **53.939** | **.52559** |
| Stddev | .00028 | .00032 | .00024 | .00028 | .0037 | .143 | .0045 | .058 | .00052 |
| %RSD | .26976 | .06429 | .12152 | .11105 | .33105 | .27562 | .44223 | .10745 | .09873 |
| #1 | .10582 | .50283 | .19930 | .25333 | 1.1231 | 51.739 | 1.0167 | 53.980 | .52596 |
| #2 | .10542 | .50237 | .19965 | .25293 | 1.1283 | 51.941 | 1.0231 | 53.898 | .52522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0111** | **57.294** | **.49707** | **10.543** | **.50280** | **.66935** | **.53965** | **2.0849** | **14.323** |
| Stddev | .0005 | .118 | .00041 | .015 | .00131 | .00111 | .00417 | .0082 | .012 |
| %RSD | .05376 | .20556 | .08285 | .13898 | .26132 | .16567 | .77242 | .39126 | .08373 |
| #1 | 1.0115 | 57.377 | .49736 | 10.532 | .50187 | .66856 | .54260 | 2.0906 | 14.331 |
| #2 | 1.0107 | 57.211 | .49678 | 10.553 | .50373 | .67013 | .53670 | 2.0791 | 14.314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0433** | **.98549** | **1.0280** | **1.0538** | **1.9441** | **2.0775** | **.50927** | **.53492** | **.50266** |
| Stddev | .0063 | .00052 | .0021 | .0009 | .0100 | .0125 | .00105 | .00051 | .00233 |
| %RSD | .30584 | .05249 | .20765 | .08147 | .51318 | .60220 | .20650 | .09597 | .46353 |
| #1 | 2.0477 | .98512 | 1.0295 | 1.0544 | 1.9512 | 2.0687 | .51002 | .53528 | .50431 |
| #2 | 2.0389 | .98585 | 1.0265 | 1.0532 | 1.9371 | 2.0864 | .50853 | .53456 | .50101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6130.5** | **80153.** | **5797.2** |
| Stddev | 9.2 | 318. | 28.6 |
| %RSD | .14948 | .39710 | .49291 |
| #1 | 6137.0 | 79928. | 5817.4 |
| #2 | 6124.1 | 80379. | 5777.0 |

Sample Name: 280-41791-D-2-A Acquired: 5/15/2013 1:40:30 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.03325** | **.00088** | **.00816** | **.01243** | **.00002** | **-.00101** | **.29647** | **-.00003** |
| Stddev | .00050 | .00031 | .00065 | .00039 | .00014 | .00006 | .00153 | .00022 | .00013 |
| %RSD | 833.10 | .93978 | 73.862 | 4.7516 | 1.0873 | 392.07 | 151.47 | .07515 | 413.58 |
| #1 | .00042 | .03303 | .00042 | .00844 | .01234 | -.00003 | -.00210 | .29631 | .00006 |
| #2 | -.00030 | .03347 | .00135 | .00789 | .01253 | .00006 | .00007 | .29662 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00037** | **.00083** | **.02345** | **.36363** | **.00450** | **.54945** | **.00285** | **.00036** |
| Stddev | .00001 | .00027 | .00001 | .00288 | .01561 | .00088 | .00275 | .00002 | .00025 |
| %RSD | 2.9299 | 72.108 | .76147 | 12.299 | 4.2926 | 19.648 | .50086 | .54580 | 70.553 |
| #1 | .00032 | .00056 | .00083 | .02141 | .37466 | .00512 | .55139 | .00284 | .00053 |
| #2 | .00033 | .00018 | .00084 | .02549 | .35259 | .00387 | .54750 | .00286 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5903** | **.00008** | **.14757** | **.00067** | **.48717** | **-.00115** | **-.00430** | **2.4454** | **.00055** |
| Stddev | .0036 | .00002 | .00081 | .00031 | .00441 | .00080 | .00297 | .0077 | .00028 |
| %RSD | .22609 | 25.222 | .54566 | 46.219 | .90570 | 69.410 | 69.081 | .31370 | 51.077 |
| #1 | 1.5929 | .00009 | .14814 | .00088 | .48405 | -.00059 | -.00220 | 2.4508 | .00075 |
| #2 | 1.5878 | .00006 | .14700 | .00045 | .49029 | -.00172 | -.00640 | 2.4400 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00424** | **-.00131** | **.00022** | **.00046** | **.02610** | **-.00022** | **.00251** | **.00003** |
| Stddev | .00018 | .00121 | .00022 | .00021 | .03729 | .00033 | .00009 | .00148 |
| %RSD | 4.3578 | 92.740 | 100.40 | 46.050 | 142.88 | 149.02 | 3.5527 | 5247.0 |
| #1 | .00437 | -.00045 | .00006 | .00031 | -.00027 | .00001 | .00257 | .00108 |
| #2 | .00411 | -.00217 | .00038 | .00061 | .05246 | -.00045 | .00245 | -.00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6301.7** | **82469.** | **5793.1** |
| Stddev | 11.5 | 223. | 1.2 |
| %RSD | .18203 | .26980 | .02113 |
| #1 | 6309.8 | 82311. | 5792.2 |
| #2 | 6293.6 | 82626. | 5793.9 |

Sample Name: 280-41791-D-3-A Acquired: 5/15/2013 1:42:58 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **.51784** | **-.00239** | **.36892** | **.02887** | **.00002** | **-.00059** | **47.284** | **.00002** |
| Stddev | .00005 | .00020 | .00022 | .00205 | .00054 | .00004 | .00410 | .046 | .00002 |
| %RSD | 13.251 | .03802 | 9.1666 | .55466 | 1.8792 | 219.00 | 692.37 | .09761 | 72.371 |
| #1 | -.00041 | .51798 | -.00254 | .37037 | .02925 | .00004 | .00231 | 47.317 | .00001 |
| #2 | -.00034 | .51770 | -.00223 | .36748 | .02849 | -.00001 | -.00349 | 47.252 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00073** | **.00196** | **.14039** | **1.1718** | **.00612** | **6.0713** | **.11385** | **-.00003** |
| Stddev | .00014 | .00015 | .00026 | .00140 | .0236 | .00211 | .0227 | .00034 | .00007 |
| %RSD | 21.956 | 20.375 | 13.273 | 1.0008 | 2.0119 | 34.428 | .37427 | .29574 | 207.02 |
| #1 | .00076 | .00083 | .00215 | .13939 | 1.1551 | .00762 | 6.0874 | .11409 | -.00008 |
| #2 | .00055 | .00062 | .00178 | .14138 | 1.1885 | .00463 | 6.0553 | .11361 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.196** | **.00088** | **.16244** | **.00140** | **33.854** | **-.00039** | **.00043** | **1.4202** | **.00001** |
| Stddev | .165 | .00001 | .00084 | .00055 | .042 | .00061 | .00292 | .0135 | .00073 |
| %RSD | 1.2530 | 1.2945 | .51501 | 39.340 | .12406 | 158.57 | 685.82 | .94730 | 13639. |
| #1 | 13.080 | .00087 | .16303 | .00178 | 33.884 | -.00082 | .00249 | 1.4107 | .00052 |
| #2 | 13.313 | .00089 | .16185 | .00101 | 33.824 | .00005 | -.00164 | 1.4297 | -.00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15458** | **.00061** | **.00165** | **-.00038** | **.02146** | **.00035** | **.00839** | **.00095** |
| Stddev | .00052 | .00061 | .00015 | .00015 | .04053 | .00075 | .00054 | .00075 |
| %RSD | .33498 | 100.24 | 9.1326 | 39.981 | 188.84 | 216.65 | 6.4164 | 79.050 |
| #1 | .15494 | .00104 | .00176 | -.00027 | .05012 | .00088 | .00801 | .00042 |
| #2 | .15421 | .00018 | .00154 | -.00049 | -.00720 | -.00018 | .00877 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6262.6** | **81520.** | **5790.5** |
| Stddev | 13.0 | 467. | 34.8 |
| %RSD | .20758 | .57254 | .60115 |
| #1 | 6253.4 | 81190. | 5765.8 |
| #2 | 6271.8 | 81850. | 5815.1 |

Sample Name: 280-41791-D-4-A Acquired: 5/15/2013 1:45:22 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00084** | **.31739** | **.00407** | **9.2078** | **.05084** | **-.00008** | **-.00197** | **154.05** | **.00000** |
| Stddev | .00000 | .00006 | .00275 | .0013 | .00002 | .00003 | .00015 | 1.34 | .00009 |
| %RSD | .58716 | .01945 | 67.654 | .01439 | .03797 | 32.635 | 7.5108 | .86852 | 72888. |
| #1 | -.00083 | .31743 | .00212 | 9.2068 | .05085 | -.00010 | -.00207 | 155.00 | -.00006 |
| #2 | -.00084 | .31734 | .00602 | 9.2087 | .05083 | -.00006 | -.00186 | 153.11 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00267** | **.00050** | **.00514** | **6.7318** | **58.751** | **.00583** | **51.507** | **1.4543** | **.00666** |
| Stddev | .00005 | .00001 | .00013 | .0562 | .449 | .00184 | .088 | .0020 | .00002 |
| %RSD | 1.9232 | 1.5121 | 2.6189 | .83435 | .76462 | 31.552 | .17119 | .13703 | .23519 |
| #1 | .00270 | .00050 | .00524 | 6.7716 | 59.068 | .00713 | 51.445 | 1.4529 | .00667 |
| #2 | .00263 | .00049 | .00505 | 6.6921 | 58.433 | .00453 | 51.570 | 1.4557 | .00665 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **232.43** | **.00528** | **.43922** | **.00054** | **162.76** | **-.00055** | **.00029** | **.95197** | **-.00007** |
| Stddev | 2.54 | .00010 | .00033 | .00076 | .04 | .00073 | .00107 | .00410 | .00005 |
| %RSD | 1.0917 | 1.8052 | .07545 | 140.65 | .02572 | 133.27 | 375.28 | .43086 | 76.858 |
| #1 | 234.22 | .00535 | .43899 | .00000 | 162.79 | -.00106 | .00105 | .94907 | -.00003 |
| #2 | 230.63 | .00521 | .43946 | .00108 | 162.73 | -.00003 | -.00047 | .95487 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72317** | **.00059** | **.00046** | **-.00049** | **.00418** | **.00074** | **.00460** | **.00369** |
| Stddev | .00768 | .00087 | .00011 | .00072 | .01388 | .00048 | .00009 | .00106 |
| %RSD | 1.0619 | 146.24 | 24.371 | 146.79 | 332.20 | 64.435 | 1.8897 | 28.630 |
| #1 | .72860 | -.00002 | .00054 | .00002 | .01400 | .00040 | .00466 | .00294 |
| #2 | .71774 | .00121 | .00038 | -.00100 | -.00564 | .00108 | .00454 | .00443 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6242.6** | **82748.** | **6097.2** |
| Stddev | 5.5 | 163. | 52.0 |
| %RSD | .08777 | .19660 | .85309 |
| #1 | 6246.5 | 82863. | 6060.4 |
| #2 | 6238.7 | 82633. | 6133.9 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 1:47:45 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00847** | **50.911** | **-.00160** | **.01221** | **.00093** | **-.00007** | **1.0472** | **.01377** | **-.00076** | **.00214** | **-.00008** | **.00168** | **51.466** |
| Stddev | .00003 | .004 | .00160 | .00176 | .00041 | .00010 | .0057 | .01130 | .00017 | .00012 | .00015 | .00024 | .039 |
| %RSD | .35279 | .00784 | 99.581 | 14.385 | 44.135 | 147.03 | .54870 | 82.061 | 22.530 | 5.8343 | 188.08 | 14.044 | .07512 |
| #1 | .00845 | 50.914 | -.00047 | .01345 | .00123 | -.00014 | 1.0431 | .02176 | -.00088 | .00205 | .00003 | .00184 | 51.494 |
| #2 | .00849 | 50.908 | -.00273 | .01097 | .00064 | .00000 | 1.0513 | .00578 | -.00064 | .00223 | -.00018 | .00151 | 51.439 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05365** | **.00542** | **-.01021** | **-.00071** | **-.00163** | **262.11** | **.00148** | **.00411** | **-.00048** | **5.5176** | **-.00261** | **.00513** | **.03646** |
| Stddev | .00334 | .00057 | .00110 | .00008 | .00026 | .52 | .00031 | .00236 | .00037 | .0081 | .00538 | .00324 | .00685 |
| %RSD | 6.2347 | 10.582 | 10.768 | 11.118 | 15.949 | .19667 | 20.783 | 57.328 | 77.754 | .14671 | 205.87 | 63.152 | 18.782 |
| #1 | .05601 | .00501 | -.00943 | -.00076 | -.00181 | 261.74 | .00127 | .00578 | -.00021 | 5.5119 | -.00641 | .00284 | .03162 |
| #2 | .05128 | .00583 | -.01098 | -.00065 | -.00144 | 262.47 | .00170 | .00244 | -.00074 | 5.5234 | .00119 | .00743 | .04130 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **.00045** | **5.2194** | **.00237** | **-.00273** | **10.295** | **.00038** | **.00351** | **-.03822** |
| Stddev | .00064 | .00015 | .0014 | .00033 | .00078 | .044 | .00041 | .00026 | .00027 |
| %RSD | 100.61 | 32.293 | .02648 | 13.841 | 28.625 | .42444 | 108.21 | 7.4322 | .71413 |
| #1 | .00018 | .00035 | 5.2204 | .00260 | -.00218 | 10.264 | .00009 | .00332 | -.03803 |
| #2 | .00109 | .00055 | 5.2184 | .00214 | -.00329 | 10.326 | .00067 | .00369 | -.03841 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6101.3** | **79353.** | **5736.7** |
| Stddev | 17.3 | 180. | 14.3 |
| %RSD | .28321 | .22713 | .24970 |
| #1 | 6089.1 | 79480. | 5726.6 |
| #2 | 6113.5 | 79225. | 5746.8 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 1:50:15 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53199** | **.49065** | **1.0385** | **.51883** | **.51186** | **.48768** | **.00081** | **5.0778** | **.51623** | **.51588** | **.50083** | **.50619** | **2.4815** | **51.610** |
| Stddev | .00059 | .00160 | .0025 | .00074 | .00191 | .00064 | .00073 | .0087 | .00006 | .00044 | .00048 | .00034 | .0078 | .123 |
| %RSD | .11121 | .32589 | .24381 | .14220 | .37305 | .13189 | 90.378 | .17100 | .01142 | .08450 | .09586 | .06806 | .31452 | .23923 |
| #1 | .53157 | .49178 | 1.0367 | .51831 | .51051 | .48722 | .00029 | 5.0717 | .51619 | .51557 | .50049 | .50643 | 2.4870 | 51.523 |
| #2 | .53241 | .48952 | 1.0403 | .51935 | .51321 | .48813 | .00133 | 5.0840 | .51627 | .51619 | .50116 | .50594 | 2.4759 | 51.697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0381** | **21.396** | **.52549** | **.49588** | **5.2094** | **.51387** | **1.0218** | **1.0262** | **.00858** | **1.0362** | **1.0384** | **5.0156** | **1.0011** | **.49499** |
| Stddev | .0042 | .007 | .00026 | .00306 | .0200 | .00386 | .0059 | .0103 | .00267 | .0067 | .0074 | .0062 | .0072 | .00037 |
| %RSD | .40732 | .03366 | .04915 | .61705 | .38306 | .75036 | .58140 | 1.0014 | 31.143 | .64850 | .71299 | .12264 | .71747 | .07522 |
| #1 | 1.0351 | 21.391 | .52567 | .49372 | 5.1953 | .51114 | 1.0176 | 1.0190 | .01047 | 1.0314 | 1.0332 | 5.0113 | .99599 | .49473 |
| #2 | 1.0411 | 21.401 | .52531 | .49804 | 5.2235 | .51659 | 1.0260 | 1.0335 | .00669 | 1.0409 | 1.0436 | 5.0200 | 1.0061 | .49525 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00227** | **.51208** | **.99282** | **.02856** | **.50900** | **.54477** | **.49614** |
| Stddev | .00263 | .00043 | .00379 | .01569 | .00069 | .00020 | .00524 |
| %RSD | 115.64 | .08361 | .38186 | 54.922 | .13540 | .03663 | 1.0562 |
| #1 | .00041 | .51178 | .99014 | .01747 | .50851 | .54491 | .49985 |
| #2 | .00413 | .51239 | .99550 | .03965 | .50948 | .54463 | .49244 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6235.4** | **80749.** | **5704.2** |
| Stddev | 10.6 | 11. | 1.2 |
| %RSD | .17002 | .01379 | .02080 |
| #1 | 6227.9 | 80741. | 5705.1 |
| #2 | 6242.9 | 80757. | 5703.4 |

Sample Name: CCB Acquired: 5/15/2013 1:52:29 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **-.00082** | **-.00004** | **.00080** | **.00029** | **.00004** | **-.00064** | **.00017** | **.00006** | **.00018** | **-.00011** |
| Stddev | .00025 | .00005 | .00071 | .00036 | .00010 | .00002 | .00214 | .00343 | .00007 | .00015 | .00008 |
| %RSD | 59.493 | 6.4889 | 1962.3 | 44.960 | 34.358 | 49.013 | 333.46 | 1973.2 | 108.46 | 85.699 | 68.641 |
| #1 | .00025 | -.00078 | .00046 | .00106 | .00022 | .00002 | .00087 | -.00225 | .00001 | .00028 | -.00006 |
| #2 | .00061 | -.00085 | -.00054 | .00055 | .00036 | .00005 | -.00216 | .00260 | .00011 | .00007 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00149** | **-.00187** | W **.00455** | **-.00190** | **-.00001** | **.00003** | F **.18296** | **-.00021** | **-.00925** | **.00123** |
| Stddev | .00018 | .00154 | .03042 | .00011 | .00100 | .00005 | .00003 | .00787 | .00018 | .00131 | .00152 |
| %RSD | 662.15 | 102.80 | 1629.4 | 2.4362 | 52.515 | 353.21 | 112.78 | 4.3002 | 82.455 | 14.147 | 122.99 |
| #1 | -.00010 | .00041 | -.02338 | .00463 | -.00260 | .00002 | .00001 | .18852 | -.00034 | -.01018 | .00231 |
| #2 | .00015 | .00258 | .01964 | .00447 | -.00119 | -.00005 | .00005 | .17740 | -.00009 | -.00833 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00510** | **-.00278** | **.00014** | **.01117** | **-.00009** | **-.00004** | **.00057** | **-.00033** | **-.00166** | **.01581** | **.00008** |
| Stddev | .00146 | .00036 | .00027 | .00049 | .00057 | .00024 | .00170 | .00003 | .00208 | .01142 | .00039 |
| %RSD | 28.578 | 12.888 | 197.05 | 4.3943 | 617.37 | 646.07 | 297.98 | 9.7216 | 124.98 | 72.237 | 473.94 |
| #1 | .00407 | -.00304 | -.00005 | .01083 | -.00049 | -.00021 | .00177 | -.00035 | -.00019 | .00774 | .00036 |
| #2 | .00613 | -.00253 | .00032 | .01152 | .00031 | .00013 | -.00063 | -.00031 | -.00313 | .02389 | -.00020 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00213** | **-.00207** |
| Stddev | .00044 | .00058 |
| %RSD | 20.502 | 28.141 |
| #1 | .00182 | -.00165 |
| #2 | .00244 | -.00248 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6250.4** | **81185.** | **5688.8** |
| Stddev | 5.8 | 319. | 45.9 |
| %RSD | .09350 | .39327 | .80684 |
| #1 | 6246.3 | 80959. | 5721.3 |
| #2 | 6254.5 | 81411. | 5656.4 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 1:54:59 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01037** | **.09839** | **.01306** | **.09582** | **.01080** | **.00103** | **.10148** | **.19802** | **.00535** | **.01084** | **.00997** |
| Stddev | .00001 | .00027 | .00170 | .00060 | .00019 | .00007 | .00298 | .00159 | .00005 | .00022 | .00013 |
| %RSD | .06207 | .27285 | 13.043 | .62961 | 1.7778 | 6.8219 | 2.9323 | .80465 | .89050 | 1.9902 | 1.3526 |
| #1 | .01036 | .09858 | .01427 | .09625 | .01067 | .00099 | .09937 | .19690 | .00539 | .01069 | .00988 |
| #2 | .01037 | .09820 | .01186 | .09540 | .01094 | .00108 | .10358 | .19915 | .00532 | .01100 | .01007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01578** | F **.13030** | **3.0685** | F **.01761** | **.21564** | **.01074** | **.01925** | **1.1756** | **.04085** | **2.9385** | **.01019** |
| Stddev | .00027 | .00043 | .0100 | .00038 | .00236 | .00003 | .00005 | .0058 | .00037 | .0121 | .00208 |
| %RSD | 1.6889 | .33281 | .32633 | 2.1515 | 1.0949 | .28842 | .23663 | .49112 | .91327 | .41258 | 20.382 |
| #1 | .01559 | .13000 | 3.0614 | .01788 | .21397 | .01076 | .01922 | 1.1715 | .04059 | 2.9299 | .00872 |
| #2 | .01597 | .13061 | 3.0756 | .01734 | .21731 | .01071 | .01928 | 1.1797 | .04112 | 2.9470 | .01166 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | | | | | | | |
| Range | | 30.000% | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00434** | **.00843** | **.01527** | **.50320** | **.09854** | **.00996** | **.01452** | **.01019** | **.01350** | W **.07620** | **.00993** |
| Stddev | .00139 | .00177 | .00020 | .00502 | .00045 | .00009 | .00253 | .00014 | .00012 | .00886 | .00031 |
| %RSD | 31.991 | 21.022 | 1.2957 | .99694 | .45559 | .89916 | 17.431 | 1.3865 | .90920 | 11.626 | 3.1260 |
| #1 | .00532 | .00968 | .01541 | .49965 | .09886 | .00989 | .01631 | .01009 | .01342 | .06994 | .01015 |
| #2 | .00336 | .00718 | .01513 | .50674 | .09822 | .01002 | .01273 | .01029 | .01359 | .08247 | .00971 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02481** | **.01539** |
| Stddev | .00048 | .00111 |
| %RSD | 1.9373 | 7.1945 |
| #1 | .02447 | .01618 |
| #2 | .02515 | .01461 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6327.8** | **81881.** | **5803.7** |
| Stddev | 1.7 | 172. | 27.5 |
| %RSD | .02625 | .20986 | .47372 |
| #1 | 6326.6 | 81759. | 5784.3 |
| #2 | 6328.9 | 82002. | 5823.2 |

Sample Name: 280-41791-D-5-A Acquired: 5/15/2013 1:57:23 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.04304** | **.00569** | **3.2333** | **.27298** | **-.00011** | **-.00293** | **212.56** | **.00021** |
| Stddev | .00003 | .00020 | .00182 | .0108 | .00001 | .00001 | .00035 | .26 | .00005 |
| %RSD | 84.499 | .46960 | 32.065 | .33447 | .00234 | 5.6443 | 12.045 | .12364 | 22.132 |
| #1 | -.00001 | .04290 | .00698 | 3.2257 | .27299 | -.00011 | -.00318 | 212.74 | .00017 |
| #2 | -.00005 | .04319 | .00440 | 3.2410 | .27298 | -.00010 | -.00268 | 212.37 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **.00333** | **.00131** | **29.171** | **50.631** | **.00437** | **51.747** | **1.7839** | **.00046** |
| Stddev | .00005 | .00010 | .00005 | .024 | .049 | .00337 | .066 | .0010 | .00016 |
| %RSD | 3.9558 | 2.9142 | 3.6093 | .08380 | .09601 | 77.041 | .12685 | .05676 | 34.965 |
| #1 | .00121 | .00340 | .00135 | 29.188 | 50.665 | .00675 | 51.793 | 1.7846 | .00057 |
| #2 | .00115 | .00326 | .00128 | 29.153 | 50.596 | .00199 | 51.701 | 1.7832 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **155.01** | **.00201** | **.56851** | **.00157** | **42.301** | **-.00040** | **.00223** | **1.8696** | **-.00031** |
| Stddev | .27 | .00013 | .00801 | .00001 | .117 | .00338 | .00080 | .0015 | .00081 |
| %RSD | .17682 | 6.6289 | 1.4088 | .80307 | .27683 | 836.38 | 35.949 | .08040 | 262.86 |
| #1 | 155.20 | .00192 | .56285 | .00157 | 42.218 | .00199 | .00167 | 1.8707 | .00026 |
| #2 | 154.82 | .00211 | .57417 | .00158 | 42.384 | -.00280 | .00280 | 1.8685 | -.00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2365** | **.00397** | **.00074** | **-.00183** | **.01255** | **.00093** | **.00491** | **.00253** |
| Stddev | .0041 | .00154 | .00042 | .00051 | .00708 | .00020 | .00043 | .00035 |
| %RSD | .33323 | 38.873 | 57.292 | 27.862 | 56.381 | 21.348 | 8.7072 | 13.967 |
| #1 | 1.2394 | .00288 | .00044 | -.00219 | .00755 | .00107 | .00521 | .00228 |
| #2 | 1.2336 | .00506 | .00104 | -.00147 | .01755 | .00079 | .00461 | .00278 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6138.1** | **80559.** | **5930.9** |
| Stddev | 4.8 | 242. | 24.6 |
| %RSD | .07757 | .29985 | .41504 |
| #1 | 6141.4 | 80388. | 5913.5 |
| #2 | 6134.7 | 80730. | 5948.3 |

Sample Name: 280-41791-D-6-A Acquired: 5/15/2013 1:59:46 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **.03231** | **.00198** | **2.0226** | **.06631** | **-.00007** | **-.00131** | **112.90** | **.00000** |
| Stddev | .00023 | .00004 | .00166 | .0036 | .00012 | .00001 | .00252 | 1.00 | .00018 |
| %RSD | 58.662 | .11618 | 83.838 | .17993 | .17717 | 19.393 | 192.92 | .88589 | 6010.6 |
| #1 | -.00023 | .03234 | .00081 | 2.0200 | .06639 | -.00008 | .00048 | 112.19 | -.00013 |
| #2 | -.00055 | .03228 | .00316 | 2.0252 | .06622 | -.00006 | -.00309 | 113.61 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **.00246** | **.00245** | **4.4600** | **33.421** | **.00356** | **16.139** | **.72510** | **.00142** |
| Stddev | .00013 | .00012 | .00002 | .0100 | .248 | .00009 | .004 | .00048 | .00027 |
| %RSD | 16.773 | 5.0747 | .86185 | .22376 | .74296 | 2.3955 | .02197 | .06663 | 18.968 |
| #1 | .00068 | .00255 | .00246 | 4.4529 | 33.245 | .00350 | 16.142 | .72476 | .00161 |
| #2 | .00087 | .00237 | .00243 | 4.4670 | 33.596 | .00362 | 16.137 | .72544 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **87.365** | **.00147** | **.31225** | **.00159** | **35.566** | **-.00290** | **.00133** | **1.9307** | **-.00024** |
| Stddev | 1.119 | .00011 | .00178 | .00169 | .043 | .00057 | .00333 | .0165 | .00073 |
| %RSD | 1.2806 | 7.4187 | .57132 | 106.31 | .12214 | 19.542 | 250.39 | .85481 | 300.30 |
| #1 | 86.574 | .00139 | .31351 | .00278 | 35.535 | -.00250 | -.00102 | 1.9423 | .00027 |
| #2 | 88.156 | .00154 | .31099 | .00039 | 35.597 | -.00330 | .00368 | 1.9190 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56405** | **.00313** | **.00020** | **-.00127** | **-.02845** | **.00044** | **.00321** | **.00206** |
| Stddev | .00313 | .00039 | .00019 | .00082 | .00895 | .00027 | .00021 | .00002 |
| %RSD | .55540 | 12.507 | 95.579 | 64.715 | 31.457 | 62.708 | 6.6223 | .84755 |
| #1 | .56183 | .00285 | .00006 | -.00185 | -.02212 | .00063 | .00336 | .00205 |
| #2 | .56626 | .00341 | .00033 | -.00069 | -.03477 | .00024 | .00306 | .00207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6233.2** | **82172.** | **5963.4** |
| Stddev | 5.9 | 172. | 47.8 |
| %RSD | .09527 | .20957 | .80101 |
| #1 | 6237.4 | 82051. | 5997.2 |
| #2 | 6229.0 | 82294. | 5929.7 |

Sample Name: 280-41791-D-7-A Acquired: 5/15/2013 2:02:11 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00309** | **-.00194** | **.00208** | **.00049** | **-.00005** | **-.00257** | **.03739** | **.00014** |
| Stddev | .00013 | .00001 | .00167 | .00083 | .00005 | .00013 | .00024 | .00664 | .00014 |
| %RSD | 97.733 | .25827 | 86.002 | 39.641 | 10.943 | 278.62 | 9.4016 | 17.772 | 99.389 |
| #1 | .00023 | .00309 | -.00312 | .00266 | .00053 | .00005 | -.00274 | .04209 | .00024 |
| #2 | .00004 | .00310 | -.00076 | .00150 | .00045 | -.00014 | -.00240 | .03269 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00009** | **.00013** | **.00954** | **.01592** | **.00539** | **.00587** | **.00017** | **-.00008** |
| Stddev | .00005 | .00011 | .00027 | .00023 | .08516 | .00112 | .00016 | .00001 | .00003 |
| %RSD | 61.239 | 117.13 | 204.24 | 2.4378 | 534.86 | 20.744 | 2.6964 | 5.9979 | 41.253 |
| #1 | .00011 | .00002 | .00032 | .00938 | .07614 | .00460 | .00576 | .00017 | -.00006 |
| #2 | .00004 | .00017 | -.00006 | .00971 | -.04430 | .00618 | .00598 | .00018 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32265** | **.00026** | **.15486** | **-.00063** | **.01707** | **-.00057** | **-.00290** | **.03479** | **.00002** |
| Stddev | .00815 | .00018 | .00157 | .00142 | .00111 | .00273 | .00019 | .00538 | .00028 |
| %RSD | 2.5249 | 68.669 | 1.0168 | 223.83 | 6.5262 | 481.72 | 6.7066 | 15.451 | 1818.2 |
| #1 | .32841 | .00013 | .15597 | -.00164 | .01628 | .00137 | -.00303 | .03859 | .00022 |
| #2 | .31689 | .00039 | .15374 | .00037 | .01786 | -.00250 | -.00276 | .03099 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **-.00111** | **.00011** | **-.00128** | **.01945** | **-.00017** | **.00290** | **.00119** |
| Stddev | .00002 | .00161 | .00047 | .00122 | .02696 | .00014 | .00009 | .00151 |
| %RSD | 7.2442 | 145.53 | 416.31 | 95.386 | 138.62 | 84.428 | 2.9726 | 126.96 |
| #1 | .00020 | -.00225 | -.00022 | -.00042 | .00039 | -.00007 | .00296 | .00225 |
| #2 | .00022 | .00003 | .00044 | -.00215 | .03851 | -.00027 | .00284 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6339.8** | **83096.** | **5794.1** |
| Stddev | 8.2 | 662. | 27.7 |
| %RSD | .12957 | .79722 | .47877 |
| #1 | 6345.7 | 82627. | 5774.5 |
| #2 | 6334.0 | 83564. | 5813.7 |

Sample Name: 280-41794-N-1-D Acquired: 5/15/2013 2:04:39 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.00740** | **.01576** | **.26655** | **.26919** | **-.00014** | **-.00457** | **122.78** | **.00008** |
| Stddev | .00052 | .00017 | .00127 | .00014 | .00064 | .00002 | .00070 | .14 | .00006 |
| %RSD | 582.50 | 2.3032 | 8.0919 | .05231 | .23726 | 11.629 | 15.222 | .11799 | 80.171 |
| #1 | .00028 | .00728 | .01666 | .26665 | .26964 | -.00013 | -.00408 | 122.88 | .00012 |
| #2 | -.00045 | .00752 | .01485 | .26645 | .26873 | -.00016 | -.00506 | 122.67 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00133** | **.00043** | **.00117** | **16.193** | **10.501** | **.03823** | **35.960** | **.54922** | **.00043** |
| Stddev | .00005 | .00008 | .00001 | .050 | .023 | .00050 | .031 | .00070 | .00017 |
| %RSD | 3.4058 | 18.117 | 1.2814 | .30924 | .22044 | 1.3100 | .08706 | .12766 | 39.511 |
| #1 | .00130 | .00037 | .00116 | 16.228 | 10.485 | .03859 | 35.938 | .54872 | .00055 |
| #2 | .00137 | .00048 | .00118 | 16.157 | 10.517 | .03788 | 35.982 | .54971 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **44.857** | **.00315** | **1.0873** | **.00156** | **13.616** | **-.00139** | **.00089** | **20.040** | **-.00051** |
| Stddev | .027 | .00007 | .0040 | .00026 | .013 | .00215 | .00332 | .046 | .00056 |
| %RSD | .06079 | 2.1036 | .36401 | 16.666 | .09274 | 155.04 | 372.80 | .23004 | 111.37 |
| #1 | 44.876 | .00310 | 1.0845 | .00174 | 13.607 | -.00291 | -.00146 | 20.073 | -.00011 |
| #2 | 44.838 | .00320 | 1.0901 | .00138 | 13.625 | .00013 | .00324 | 20.007 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45240** | **-.00002** | **.00015** | **-.00114** | **.00721** | **.00053** | **.00781** | **.00043** |
| Stddev | .00091 | .00287 | .00001 | .00051 | .04969 | .00030 | .00014 | .00203 |
| %RSD | .20220 | 15557. | 3.7162 | 44.630 | 689.41 | 56.485 | 1.7865 | 468.09 |
| #1 | .45305 | .00201 | .00016 | -.00078 | -.02793 | .00032 | .00791 | -.00100 |
| #2 | .45175 | -.00205 | .00015 | -.00150 | .04235 | .00074 | .00771 | .00187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6132.4** | **80091.** | **5770.2** |
| Stddev | 10.1 | 120. | 37.2 |
| %RSD | .16465 | .14928 | .64409 |
| #1 | 6125.3 | 80175. | 5743.9 |
| #2 | 6139.5 | 80006. | 5796.5 |

Sample Name: 280-41794-N-2-B Acquired: 5/15/2013 2:07:03 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00042** | **.01068** | **-.00353** | **.05033** | **.27045** | **-.00010** | **-.00575** | **206.26** | **.00017** |
| Stddev | .00001 | .00031 | .00059 | .00009 | .00163 | .00016 | .00052 | 1.06 | .00018 |
| %RSD | 3.6012 | 2.9145 | 16.828 | .18850 | .60414 | 167.64 | 9.0565 | .51400 | 106.20 |
| #1 | -.00040 | .01046 | -.00395 | .05027 | .27161 | -.00021 | -.00539 | 207.01 | .00029 |
| #2 | -.00043 | .01090 | -.00311 | .05040 | .26930 | .00002 | -.00612 | 205.51 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00037** | **.00111** | **14.635** | **5.4113** | **.03351** | **64.898** | **.34606** | **.00046** |
| Stddev | .00015 | .00001 | .00019 | .088 | .0217 | .00104 | .062 | .00011 | .00022 |
| %RSD | 46.299 | 1.7303 | 17.537 | .60010 | .40131 | 3.1107 | .09574 | .03041 | 47.273 |
| #1 | .00022 | .00036 | .00125 | 14.697 | 5.4266 | .03424 | 64.854 | .34599 | .00030 |
| #2 | .00044 | .00037 | .00097 | 14.573 | 5.3959 | .03277 | 64.942 | .34614 | .00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **18.039** | **.00045** | **.79611** | **.00254** | **143.21** | **-.00082** | **-.00146** | **18.551** | **-.00097** |
| Stddev | .159 | .00002 | .00344 | .00025 | .17 | .00002 | .00329 | .063 | .00002 |
| %RSD | .88189 | 3.9884 | .43148 | 9.9060 | .12209 | 2.3181 | 224.99 | .34027 | 2.1918 |
| #1 | 17.927 | .00044 | .79854 | .00272 | 143.33 | -.00084 | -.00378 | 18.596 | -.00095 |
| #2 | 18.152 | .00046 | .79368 | .00236 | 143.09 | -.00081 | .00086 | 18.507 | -.00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68834** | **.00197** | **.00093** | **-.00057** | **.01116** | **.00060** | **.00567** | **.00043** |
| Stddev | .00517 | .00219 | .00018 | .00033 | .00225 | .00017 | .00001 | .00003 |
| %RSD | .75179 | 111.28 | 19.679 | 57.963 | 20.187 | 29.120 | .23979 | 7.7803 |
| #1 | .69200 | .00352 | .00080 | -.00081 | .00957 | .00072 | .00568 | .00040 |
| #2 | .68468 | .00042 | .00105 | -.00034 | .01275 | .00048 | .00566 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6046.9** | **79243.** | **5701.2** |
| Stddev | 28.0 | 174. | 49.7 |
| %RSD | .46249 | .21896 | .87181 |
| #1 | 6027.1 | 79366. | 5666.0 |
| #2 | 6066.7 | 79121. | 5736.3 |

Sample Name: 280-41794-N-3-B280 Acquired: 5/15/2013 2:09:26 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00415** | **-.00275** | **.16312** | **.26314** | **-.00011** | **-.00343** | **174.72** | **.00001** |
| Stddev | .00044 | .00001 | .00037 | .00035 | .00024 | .00003 | .00122 | .26 | .00023 |
| %RSD | 176.94 | .33956 | 13.345 | .21344 | .09110 | 24.075 | 35.624 | .15028 | 2241.7 |
| #1 | .00006 | .00416 | -.00249 | .16288 | .26297 | -.00009 | -.00429 | 174.54 | .00017 |
| #2 | -.00056 | .00414 | -.00301 | .16337 | .26331 | -.00013 | -.00256 | 174.91 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.00113** | **.00157** | **7.1521** | **6.4672** | **.08139** | **57.124** | **.46798** | **.00016** |
| Stddev | .00003 | .00011 | .00064 | .0049 | .0096 | .00026 | .047 | .00117 | .00018 |
| %RSD | 2.7296 | 9.9717 | 40.709 | .06905 | .14903 | .32552 | .08169 | .24941 | 115.54 |
| #1 | .00122 | .00121 | .00202 | 7.1556 | 6.4604 | .08120 | 57.157 | .46881 | .00003 |
| #2 | .00127 | .00105 | .00111 | 7.1487 | 6.4740 | .08158 | 57.091 | .46716 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **97.106** | **.00654** | **1.3275** | **.00215** | **45.546** | **.00054** | **-.00110** | **17.419** | **-.00072** |
| Stddev | .610 | .00000 | .0068 | .00004 | .020 | .00170 | .00167 | .033 | .00009 |
| %RSD | .62836 | .03727 | .51245 | 1.8577 | .04378 | 311.81 | 152.39 | .19103 | 12.711 |
| #1 | 96.674 | .00654 | 1.3227 | .00212 | 45.532 | -.00066 | -.00228 | 17.395 | -.00078 |
| #2 | 97.537 | .00654 | 1.3324 | .00218 | 45.560 | .00174 | .00008 | 17.442 | -.00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4760** | **-.00049** | **.00055** | **-.00029** | **.03479** | **.00086** | **.00489** | **-.00052** |
| Stddev | .0003 | .00401 | .00020 | .00044 | .05311 | .00012 | .00001 | .00213 |
| %RSD | .02150 | 813.44 | 35.833 | 151.02 | 152.67 | 13.495 | .20381 | 409.64 |
| #1 | 1.4758 | .00234 | .00041 | .00002 | -.00277 | .00078 | .00488 | -.00203 |
| #2 | 1.4763 | -.00333 | .00069 | -.00061 | .07234 | .00095 | .00490 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6024.7** | **79532.** | **5822.0** |
| Stddev | 2.5 | 106. | 21.7 |
| %RSD | .04128 | .13268 | .37333 |
| #1 | 6026.5 | 79457. | 5837.3 |
| #2 | 6023.0 | 79606. | 5806.6 |

Sample Name: 280-41794-N-4-B Acquired: 5/15/2013 2:11:49 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00049** | k **.06889** | k **.01361** | **.81708** | **.41192** | k **-.00010** | k **-.00563** | **199.11** | k **.00036** |
| Stddev | .00017 | .00015 | .00125 | .00069 | .00119 | .00002 | .00065 | .30 | .00021 |
| %RSD | 34.857 | .21385 | 9.1893 | .08393 | .28949 | 22.898 | 11.465 | .15295 | 58.815 |
| #1 | k .00037 | k .06900 | k .01449 | .81659 | .41276 | k -.00008 | k -.00518 | 199.33 | k .00051 |
| #2 | k .00062 | k .06879 | k .01272 | .81756 | .41107 | k -.00011 | k -.00609 | 198.90 | k .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00273** | k **.00124** | k **.00173** | **43.210** | **14.780** | **.06538** | **48.850** | **2.1669** | **.00115** |
| Stddev | .00005 | .00001 | .00044 | .022 | .005 | .00045 | .076 | .0044 | .00016 |
| %RSD | 1.6856 | .51964 | 25.209 | .05152 | .03379 | .69459 | .15581 | .20195 | 13.604 |
| #1 | k .00276 | k .00125 | k .00143 | 43.194 | 14.777 | .06506 | 48.796 | 2.1638 | .00126 |
| #2 | k .00270 | k .00124 | k .00204 | 43.226 | 14.784 | .06570 | 48.903 | 2.1700 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **128.62** | **.01360** | **3.3469** | k **.00461** | **17.425** | k **-.00310** | k **-.00207** | **24.783** | k **-.00053** |
| Stddev | .18 | .00028 | .0076 | .00101 | .001 | .00246 | .00331 | .013 | .00063 |
| %RSD | .13994 | 2.0701 | .22743 | 21.954 | .00488 | 79.377 | 159.74 | .05346 | 120.44 |
| #1 | 128.75 | .01380 | 3.3416 | k .00389 | 17.426 | k -.00136 | k .00027 | 24.792 | k -.00097 |
| #2 | 128.49 | .01340 | 3.3523 | k .00533 | 17.425 | k -.00484 | k -.00441 | 24.773 | k -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59951** | k **.03791** | k **.00111** | k **-.00094** | k **-.00537** | k **.00090** | k **.00362** | k **-.00061** |
| Stddev | .00363 | .00111 | .00035 | .00004 | .01057 | .00021 | .00034 | .00070 |
| %RSD | .60495 | 2.9245 | 31.723 | 3.8865 | 197.01 | 23.273 | 9.3072 | 113.52 |
| #1 | .60207 | k .03869 | k .00086 | k -.00092 | k -.01284 | k .00075 | k .00338 | k -.00110 |
| #2 | .59695 | k .03712 | k .00136 | k -.00097 | k .00211 | k .00105 | k .00386 | k -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6059.6** | **79213.** | **5808.8** |
| Stddev | 3.0 | 143. | 16.8 |
| %RSD | .04996 | .18012 | .28874 |
| #1 | 6057.4 | 79112. | 5797.0 |
| #2 | 6061.7 | 79314. | 5820.7 |

Sample Name: 280-41794-N-5-B Acquired: 5/15/2013 2:14:09 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.01140** | **-.00025** | **.97905** | **.50844** | **-.00004** | **-.00665** | **235.79** | **.00008** |
| Stddev | .00062 | .00048 | .00071 | .00026 | .00170 | .00000 | .00320 | 1.15 | .00003 |
| %RSD | 3841.8 | 4.1818 | 277.56 | .02668 | .33440 | 8.9549 | 48.102 | .48924 | 35.386 |
| #1 | .00045 | .01106 | .00024 | .97923 | .50964 | -.00005 | -.00891 | 236.61 | .00010 |
| #2 | -.00042 | .01173 | -.00075 | .97886 | .50724 | -.00004 | -.00439 | 234.97 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00204** | **.00219** | **.00192** | **47.641** | **14.711** | **.06696** | **57.757** | **1.9438** | **-.00013** |
| Stddev | .00005 | .00023 | .00008 | .248 | .033 | .00136 | .163 | .0024 | .00017 |
| %RSD | 2.6108 | 10.353 | 4.3397 | .52044 | .22580 | 2.0352 | .28199 | .12616 | 128.15 |
| #1 | .00200 | .00203 | .00198 | 47.816 | 14.735 | .06599 | 57.872 | 1.9455 | -.00025 |
| #2 | .00207 | .00236 | .00186 | 47.465 | 14.688 | .06792 | 57.641 | 1.9421 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **114.84** | **.00833** | **2.4493** | **.00184** | **8.4492** | **-.00143** | **-.00220** | **27.717** | **-.00011** |
| Stddev | .28 | .00014 | .0008 | .00171 | .0057 | .00034 | .00458 | .074 | .00023 |
| %RSD | .24476 | 1.7354 | .03213 | 93.171 | .06701 | 23.795 | 207.99 | .26782 | 210.64 |
| #1 | 114.64 | .00843 | 2.4487 | .00063 | 8.4452 | -.00119 | .00104 | 27.769 | -.00027 |
| #2 | 115.04 | .00823 | 2.4498 | .00305 | 8.4532 | -.00167 | -.00544 | 27.664 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.70437** | **.00518** | **.00129** | **-.00162** | **.01472** | **.00136** | **.00379** | **-.00128** |
| Stddev | .00223 | .00020 | .00021 | .00137 | .02950 | .00022 | .00028 | .00155 |
| %RSD | .31727 | 3.8956 | 16.089 | 84.626 | 200.38 | 16.347 | 7.2948 | 120.48 |
| #1 | .70595 | .00503 | .00144 | -.00065 | .03558 | .00120 | .00359 | -.00019 |
| #2 | .70279 | .00532 | .00115 | -.00259 | -.00614 | .00152 | .00398 | -.00238 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6084.0** | **79105.** | **5798.1** |
| Stddev | 15.8 | 33. | 18.9 |
| %RSD | .25949 | .04127 | .32535 |
| #1 | 6095.1 | 79128. | 5784.8 |
| #2 | 6072.8 | 79082. | 5811.5 |

Sample Name: 280-41802-R-1-B Acquired: 5/15/2013 2:16:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172702 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.01657** | **-.00080** | **.26087** | **.43498** | **-.00013** | **-.00601** | **180.04** | **.00023** |
| Stddev | .00015 | .00023 | .00151 | .00036 | .00250 | .00005 | .00238 | .82 | .00011 |
| %RSD | 127.36 | 1.3870 | 187.54 | .13640 | .57426 | 36.876 | 39.550 | .45683 | 46.667 |
| #1 | .00001 | .01673 | -.00187 | .26062 | .43674 | -.00016 | -.00433 | 180.62 | .00030 |
| #2 | .00022 | .01640 | .00026 | .26113 | .43321 | -.00010 | -.00769 | 179.45 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00054** | **.00193** | **24.872** | **13.070** | **.04827** | **52.009** | **.97337** | **.00018** |
| Stddev | .00006 | .00001 | .00030 | .154 | .064 | .00223 | .183 | .00362 | .00010 |
| %RSD | 10.241 | 2.0008 | 15.695 | .61998 | .48969 | 4.6294 | .35246 | .37186 | 55.684 |
| #1 | .00063 | .00053 | .00215 | 24.981 | 13.116 | .04669 | 51.880 | .97081 | .00011 |
| #2 | .00054 | .00055 | .00172 | 24.763 | 13.025 | .04986 | 52.139 | .97593 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **57.587** | **.01086** | **1.8439** | **.00393** | **16.479** | **-.00084** | **-.00046** | **22.347** | **-.00082** |
| Stddev | .307 | .00046 | .0060 | .00005 | .015 | .00145 | .00395 | .014 | .00056 |
| %RSD | .53244 | 4.2083 | .32275 | 1.2991 | .09391 | 173.78 | 861.71 | .06235 | 68.333 |
| #1 | 57.804 | .01118 | 1.8482 | .00396 | 16.490 | -.00186 | -.00325 | 22.357 | -.00122 |
| #2 | 57.370 | .01053 | 1.8397 | .00389 | 16.469 | .00019 | .00233 | 22.338 | -.00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.60908** | **.00439** | **.00084** | **-.00122** | **.00414** | **.00053** | **.00424** | **.00035** |
| Stddev | .00343 | .00043 | .00008 | .00070 | .04634 | .00015 | .00060 | .00026 |
| %RSD | .56237 | 9.7756 | 9.3918 | 57.771 | 1119.9 | 28.781 | 14.149 | 73.732 |
| #1 | .61150 | .00469 | .00089 | -.00172 | -.02863 | .00042 | .00466 | .00053 |
| #2 | .60666 | .00408 | .00078 | -.00072 | .03691 | .00064 | .00381 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6097.8** | **79221.** | **5730.3** |
| Stddev | 9.5 | 102. | 1.2 |
| %RSD | .15632 | .12910 | .02099 |
| #1 | 6091.1 | 79294. | 5731.2 |
| #2 | 6104.6 | 79149. | 5729.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 2:18:58 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00770** | **50.380** | **-.00296** | **-.00272** | **.00123** | **-.00002** | **1.0312** | **.01095** | **-.00090** | **.00212** | **.00009** | **.00139** | **50.971** |
| Stddev | .00008 | .110 | .00252 | .00015 | .00077 | .00006 | .0062 | .00364 | .00014 | .00001 | .00020 | .00004 | .230 |
| %RSD | .97559 | .21770 | 85.036 | 5.3596 | 62.519 | 325.79 | .59834 | 33.242 | 15.962 | .27580 | 215.44 | 3.2160 | .45109 |
| #1 | .00775 | 50.303 | -.00118 | -.00262 | .00069 | -.00006 | 1.0268 | .01352 | -.00100 | .00212 | .00023 | .00136 | 51.133 |
| #2 | .00765 | 50.458 | -.00474 | -.00282 | .00177 | .00002 | 1.0355 | .00838 | -.00080 | .00211 | -.00005 | .00142 | 50.808 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03519** | **.00357** | **-.00969** | **-.00066** | **-.00173** | **258.53** | **.00103** | **.04067** | **.00064** | **5.3354** | **-.00220** | **.00576** | **.02673** |
| Stddev | .00940 | .00109 | .00340 | .00001 | .00004 | .36 | .00009 | .00415 | .00278 | .0338 | .00344 | .00106 | .00096 |
| %RSD | 26.710 | 30.676 | 35.095 | 1.7261 | 2.1283 | .13796 | 9.0873 | 10.201 | 433.96 | .63259 | 156.65 | 18.374 | 3.6099 |
| #1 | .02855 | .00434 | -.00728 | -.00065 | -.00175 | 258.28 | .00096 | .04361 | .00261 | 5.3115 | .00024 | .00650 | .02741 |
| #2 | .04184 | .00279 | -.01209 | -.00067 | -.00170 | 258.78 | .00110 | .03774 | -.00133 | 5.3593 | -.00463 | .00501 | .02605 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00028** | **5.1653** | **.00272** | **-.00297** | **10.147** | **-.00064** | **.00348** | **-.03790** |
| Stddev | .00093 | .00002 | .0030 | .00007 | .00007 | .001 | .00061 | .00002 | .00151 |
| %RSD | 143.64 | 5.6757 | .05761 | 2.5402 | 2.4973 | .00927 | 95.900 | .68099 | 3.9940 |
| #1 | .00130 | .00027 | 5.1674 | .00277 | -.00292 | 10.147 | -.00021 | .00346 | -.03683 |
| #2 | -.00001 | .00029 | 5.1632 | .00268 | -.00303 | 10.146 | -.00107 | .00350 | -.03897 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6213.0** | **79379.** | **5743.3** |
| Stddev | 23.7 | 227. | 17.3 |
| %RSD | .38134 | .28576 | .30184 |
| #1 | 6196.2 | 79219. | 5755.6 |
| #2 | 6229.7 | 79539. | 5731.1 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 2:21:27 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53158** | **.49136** | **1.0356** | **.50828** | **.50838** | **.48529** | **.00115** | **5.0733** | **.51603** | **.51578** | **.50163** | **.50863** | **2.4779** | **51.049** |
| Stddev | .00109 | .00105 | .0003 | .00033 | .00247 | .00165 | .00057 | .0510 | .00013 | .00029 | .00044 | .00046 | .0100 | .267 |
| %RSD | .20488 | .21288 | .02543 | .06438 | .48618 | .34012 | 49.580 | 1.0056 | .02426 | .05530 | .08789 | .09135 | .40400 | .52251 |
| #1 | .53081 | .49062 | 1.0354 | .50805 | .51013 | .48646 | .00155 | 5.1093 | .51594 | .51598 | .50131 | .50830 | 2.4850 | 51.237 |
| #2 | .53235 | .49210 | 1.0358 | .50851 | .50663 | .48412 | .00074 | 5.0372 | .51612 | .51558 | .50194 | .50895 | 2.4708 | 50.860 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0257** | **21.385** | **.52530** | **.49516** | **5.1645** | **.51353** | **1.0347** | **1.0268** | **.00680** | **1.0330** | **1.0325** | **4.9754** | **1.0021** | **.49231** |
| Stddev | .0028 | .010 | .00066 | .00142 | .0578 | .00263 | .0047 | .0062 | .00360 | .0044 | .0087 | .0123 | .0020 | .00305 |
| %RSD | .27256 | .04633 | .12640 | .28767 | 1.1189 | .51161 | .45750 | .60600 | 52.913 | .42764 | .84020 | .24692 | .19978 | .61899 |
| #1 | 1.0277 | 21.378 | .52483 | .49617 | 5.2053 | .51539 | 1.0380 | 1.0312 | .00935 | 1.0361 | 1.0386 | 4.9668 | 1.0035 | .49446 |
| #2 | 1.0237 | 21.392 | .52577 | .49415 | 5.1236 | .51167 | 1.0313 | 1.0224 | .00426 | 1.0298 | 1.0263 | 4.9841 | 1.0007 | .49015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **.51212** | **.99525** | **.02667** | **.51057** | **.54316** | **.49794** |
| Stddev | .00099 | .00104 | .00234 | .02748 | .00197 | .00128 | .00136 |
| %RSD | 149.17 | .20364 | .23510 | 103.03 | .38649 | .23551 | .27272 |
| #1 | .00136 | .51138 | .99690 | .04611 | .50917 | .54406 | .49890 |
| #2 | -.00004 | .51285 | .99359 | .00724 | .51197 | .54225 | .49698 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6274.8** | **81204.** | **5807.7** |
| Stddev | 3.6 | 40. | 37.3 |
| %RSD | .05805 | .04962 | .64182 |
| #1 | 6277.3 | 81176. | 5781.3 |
| #2 | 6272.2 | 81233. | 5834.0 |

Sample Name: CCB Acquired: 5/15/2013 2:23:41 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **-.00027** | **-.00044** | F **-.00514** | **.00038** | **.00001** | **-.00286** | **-.00140** | **.00012** | **.00035** | **-.00015** |
| Stddev | .00049 | .00006 | .00013 | .00008 | .00001 | .00003 | .00039 | .00347 | .00024 | .00003 | .00007 |
| %RSD | 156.84 | 22.299 | 29.785 | 1.5505 | 2.6173 | 383.12 | 13.788 | 247.91 | 191.76 | 8.7179 | 47.098 |
| #1 | -.00066 | -.00031 | -.00035 | -.00520 | .00039 | -.00001 | -.00258 | .00105 | -.00004 | .00032 | -.00010 |
| #2 | .00003 | -.00022 | -.00054 | -.00508 | .00038 | .00003 | -.00314 | -.00385 | .00029 | .00037 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00255** | **-.03862** | W **.00340** | **.00002** | **.00006** | **-.00001** | F **.19790** | **-.00006** | F **.01042** | **.00022** |
| Stddev | .00011 | .00048 | .01275 | .00081 | .00012 | .00004 | .00026 | .00145 | .00013 | .00112 | .00008 |
| %RSD | 30.135 | 18.831 | 33.024 | 23.811 | 603.24 | 80.135 | 4343.0 | .73428 | 206.97 | 10.774 | 36.557 |
| #1 | .00045 | .00221 | -.02960 | .00397 | .00010 | .00009 | .00018 | .19687 | .00003 | .00962 | .00028 |
| #2 | .00029 | .00288 | -.04764 | .00283 | -.00006 | .00002 | -.00019 | .19893 | -.00016 | .01121 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | .01000 | |
| Low Limit | | | | -.00261 | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00840** | **-.00211** | **-.00147** | **.02352** | **-.00003** | **.00003** | **-.00152** | **.00013** | **-.00071** | **.01453** | **.00023** |
| Stddev | .00560 | .00110 | .00031 | .00006 | .00056 | .00004 | .00338 | .00059 | .00028 | .03532 | .00012 |
| %RSD | 66.705 | 51.840 | 20.966 | .25962 | 1805.1 | 127.28 | 222.83 | 468.21 | 38.892 | 243.13 | 51.661 |
| #1 | .01236 | -.00134 | -.00125 | .02356 | .00037 | .00006 | -.00391 | .00055 | -.00052 | .03950 | .00032 |
| #2 | .00444 | -.00289 | -.00169 | .02348 | -.00043 | .00000 | .00087 | -.00029 | -.00091 | -.01045 | .00015 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00252** | **.00185** |
| Stddev | .00016 | .00139 |
| %RSD | 6.4732 | 75.449 |
| #1 | .00263 | .00086 |
| #2 | .00240 | .00283 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6215.5** | **81091.** | **5719.9** |
| Stddev | 6.2 | 287. | 18.1 |
| %RSD | .10013 | .35388 | .31647 |
| #1 | 6219.9 | 81294. | 5707.1 |
| #2 | 6211.1 | 80888. | 5732.7 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 2:26:11 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01080** | **.09845** | **.01250** | **.09287** | **.01081** | **.00095** | **.10492** | **.20359** | **.00541** | **.01086** | **.01015** |
| Stddev | .00014 | .00043 | .00024 | .00014 | .00007 | .00011 | .00078 | .00365 | .00008 | .00003 | .00013 |
| %RSD | 1.2724 | .44125 | 1.9357 | .15256 | .61325 | 11.192 | .74379 | 1.7934 | 1.4250 | .29249 | 1.2701 |
| #1 | .01089 | .09814 | .01267 | .09297 | .01077 | .00088 | .10437 | .20101 | .00547 | .01084 | .01006 |
| #2 | .01070 | .09875 | .01233 | .09277 | .01086 | .00103 | .10548 | .20617 | .00536 | .01088 | .01024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01565** | **.10861** | **3.1128** | F **.01522** | **.22171** | **.01071** | **.01965** | **1.1960** | **.04140** | **2.9642** | W **.01126** |
| Stddev | .00066 | .00176 | .0048 | .00081 | .00215 | .00002 | .00014 | .0015 | .00005 | .0147 | .00148 |
| %RSD | 4.2260 | 1.6172 | .15497 | 5.3346 | .96795 | .17598 | .69503 | .12256 | .13015 | .49609 | 13.141 |
| #1 | .01612 | .10737 | 3.1094 | .01579 | .22019 | .01072 | .01956 | 1.1950 | .04144 | 2.9538 | .01230 |
| #2 | .01518 | .10985 | 3.1162 | .01464 | .22323 | .01069 | .01975 | 1.1970 | .04136 | 2.9746 | .01021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | | | | .00900 |
| Range | | | | 30.000% | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00535** | **.00963** | **.01377** | **.49869** | **.10036** | **.01006** | **.01564** | **.00990** | **.01421** | F **.10779** | **.01042** |
| Stddev | .00070 | .00017 | .00074 | .00548 | .00100 | .00013 | .00037 | .00032 | .00188 | .01956 | .00014 |
| %RSD | 13.037 | 1.7588 | 5.3854 | 1.0992 | .99973 | 1.2848 | 2.3970 | 3.2619 | 13.207 | 18.146 | 1.3285 |
| #1 | .00485 | .00951 | .01325 | .49482 | .09965 | .00996 | .01591 | .01013 | .01553 | .09396 | .01052 |
| #2 | .00584 | .00975 | .01429 | .50257 | .10107 | .01015 | .01538 | .00967 | .01288 | .12162 | .01032 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02395** | **.01377** |
| Stddev | .00049 | .00022 |
| %RSD | 2.0426 | 1.6146 |
| #1 | .02429 | .01362 |
| #2 | .02360 | .01393 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6336.5** | **81639.** | **5786.5** |
| Stddev | 18.4 | 105. | 10.1 |
| %RSD | .29099 | .12807 | .17505 |
| #1 | 6349.6 | 81565. | 5793.7 |
| #2 | 6323.5 | 81713. | 5779.3 |

Sample Name: 280-41656-G-1-A Acquired: 5/15/2013 2:28:35 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172349 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **2.4086** | **-.00065** | **.05444** | **.05422** | **.00009** | **-.00396** | **18.890** | **.00009** |
| Stddev | .00010 | .0065 | .00017 | .00063 | .00083 | .00002 | .00037 | .169 | .00020 |
| %RSD | 44.351 | .27080 | 25.829 | 1.1631 | 1.5377 | 19.177 | 9.2710 | .89426 | 214.50 |
| #1 | -.00016 | 2.4132 | -.00076 | .05489 | .05363 | .00010 | -.00422 | 18.771 | .00023 |
| #2 | -.00030 | 2.4039 | -.00053 | .05400 | .05481 | .00008 | -.00370 | 19.010 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00123** | **.01562** | **.00669** | **2.4901** | **12.597** | **.01561** | **1.2217** | **.07218** | **.00658** |
| Stddev | .00003 | .00008 | .00003 | .0098 | .110 | .00060 | .0042 | .00008 | .00038 |
| %RSD | 2.6258 | .54064 | .41804 | .39202 | .87538 | 3.8664 | .34275 | .11372 | 5.7454 |
| #1 | .00121 | .01568 | .00671 | 2.4832 | 12.519 | .01519 | 1.2246 | .07224 | .00631 |
| #2 | .00126 | .01556 | .00667 | 2.4970 | 12.675 | .01604 | 1.2187 | .07212 | .00684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.126** | **.00203** | **.28187** | **.00357** | **10.296** | **-.00061** | **-.00326** | **12.626** | **-.00080** |
| Stddev | .275 | .00037 | .00466 | .00028 | .020 | .00045 | .00317 | .063 | .00013 |
| %RSD | 1.1896 | 18.127 | 1.6540 | 7.8553 | .19198 | 74.831 | 97.271 | .49504 | 16.698 |
| #1 | 22.931 | .00229 | .28516 | .00377 | 10.310 | -.00029 | -.00102 | 12.581 | -.00071 |
| #2 | 23.320 | .00177 | .27857 | .00337 | 10.282 | -.00093 | -.00550 | 12.670 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24499** | **.00341** | **.07934** | **-.00158** | **-.00502** | **.02030** | **.01996** | **.00251** |
| Stddev | .00174 | .00252 | .00023 | .00052 | .01417 | .00002 | .00050 | .00003 |
| %RSD | .70942 | 73.891 | .28497 | 33.153 | 282.10 | .07753 | 2.5017 | 1.2518 |
| #1 | .24376 | .00520 | .07950 | -.00121 | -.01505 | .02031 | .01961 | .00248 |
| #2 | .24622 | .00163 | .07918 | -.00195 | .00500 | .02029 | .02032 | .00253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6321.0** | **81642.** | **5876.9** |
| Stddev | 4.1 | 168. | 18.5 |
| %RSD | .06556 | .20569 | .31480 |
| #1 | 6323.9 | 81523. | 5890.0 |
| #2 | 6318.1 | 81761. | 5863.8 |

Sample Name: sd 280-41656-G-1-A@5 Acquired: 5/15/2013 2:31:00 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172349 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **1.1222** | **-.00028** | **.00648** | **.01513** | **-.00002** | **-.00142** | **3.7947** | **.00006** |
| Stddev | .00030 | .0085 | .00039 | .00023 | .00013 | .00001 | .00089 | .0159 | .00027 |
| %RSD | 248.82 | .75521 | 140.24 | 3.5419 | .86852 | 60.342 | 62.736 | .41960 | 462.17 |
| #1 | -.00033 | 1.1162 | -.00056 | .00632 | .01504 | -.00001 | -.00079 | 3.7835 | -.00013 |
| #2 | .00009 | 1.1282 | -.00000 | .00664 | .01522 | -.00003 | -.00205 | 3.8060 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **.00328** | **.00133** | **.57264** | **2.7378** | **.00767** | **.26998** | **.01507** | **.00119** |
| Stddev | .00006 | .00002 | .00001 | .00648 | .0246 | .00037 | .00139 | .00015 | .00001 |
| %RSD | 15.355 | .53454 | .90801 | 1.1313 | .90012 | 4.7895 | .51569 | .97189 | 1.0346 |
| #1 | .00047 | .00326 | .00132 | .56806 | 2.7552 | .00793 | .26900 | .01518 | .00120 |
| #2 | .00038 | .00329 | .00134 | .57722 | 2.7204 | .00741 | .27097 | .01497 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.5332** | **.00034** | **.05699** | **-.00031** | **2.0101** | **-.00208** | **-.00010** | **4.1544** | **.00016** |
| Stddev | .0032 | .00030 | .00048 | .00106 | .0008 | .00070 | .00093 | .0427 | .00085 |
| %RSD | .07029 | 87.806 | .83856 | 347.89 | .03827 | 33.766 | 953.06 | 1.0284 | 540.24 |
| #1 | 4.5310 | .00056 | .05665 | .00045 | 2.0095 | -.00158 | -.00075 | 4.1242 | .00076 |
| #2 | 4.5355 | .00013 | .05733 | -.00106 | 2.0106 | -.00258 | .00056 | 4.1846 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05019** | **.00141** | **.04120** | **-.00102** | **-.00352** | **.00466** | **.00738** | **.00208** |
| Stddev | .00024 | .00016 | .00068 | .00018 | .02859 | .00020 | .00016 | .00022 |
| %RSD | .47355 | 11.156 | 1.6477 | 17.714 | 812.78 | 4.3264 | 2.1774 | 10.784 |
| #1 | .05003 | .00152 | .04072 | -.00114 | -.02374 | .00452 | .00727 | .00193 |
| #2 | .05036 | .00130 | .04168 | -.00089 | .01670 | .00480 | .00750 | .00224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6361.0** | **81703.** | **5822.0** |
| Stddev | 18.5 | 168. | 11.6 |
| %RSD | .29102 | .20623 | .20008 |
| #1 | 6347.9 | 81584. | 5813.7 |
| #2 | 6374.0 | 81822. | 5830.2 |

Sample Name: 280-41656-G-1-B MS  Acquired: 5/15/2013 2:33:25  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172349 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05904** | **6.8492** | **1.0865** | **1.1331** | **2.1981** | **.05056** | **2.1552** | **71.547** | **.11020** |
| Stddev | .00054 | .0139 | .0032 | .0049 | .0233 | .00069 | .0024 | .688 | .00014 |
| %RSD | .91364 | .20264 | .29263 | .43347 | 1.0621 | 1.3620 | .11175 | .96149 | .13089 |
| #1 | .05866 | 6.8590 | 1.0842 | 1.1296 | 2.2146 | .05105 | 2.1535 | 72.033 | .11010 |
| #2 | .05942 | 6.8394 | 1.0887 | 1.1366 | 2.1816 | .05008 | 2.1569 | 71.060 | .11030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52474** | **.22351** | **.27136** | **3.7844** | **67.105** | **1.0661** | **56.301** | **.61505** | **1.0221** |
| Stddev | .00092 | .00043 | .00119 | .0282 | .736 | .0088 | .001 | .00091 | .0001 |
| %RSD | .17537 | .19343 | .43824 | .74489 | 1.0961 | .82929 | .00207 | .14841 | .00932 |
| #1 | .52409 | .22320 | .27220 | 3.8044 | 67.625 | 1.0724 | 56.301 | .61440 | 1.0220 |
| #2 | .52539 | .22382 | .27052 | 3.7645 | 66.585 | 1.0599 | 56.302 | .61569 | 1.0221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **77.967** | **.51716** | **11.035** | **.52351** | **11.054** | **.54180** | **2.1397** | **27.596** | **2.0426** |
| Stddev | .438 | .00067 | .011 | .00170 | .019 | .00021 | .0130 | .276 | .0059 |
| %RSD | .56125 | .12973 | .09526 | .32474 | .17099 | .03938 | .60638 | .99857 | .28734 |
| #1 | 78.277 | .51668 | 11.028 | .52231 | 11.041 | .54165 | 2.1306 | 27.790 | 2.0384 |
| #2 | 77.658 | .51763 | 11.043 | .52471 | 11.067 | .54195 | 2.1489 | 27.401 | 2.0467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2763** | **1.0815** | **1.1532** | **2.0023** | **2.1152** | **.55448** | **.57487** | **.50866** |
| Stddev | .0155 | .0016 | .0032 | .0055 | .0021 | .00024 | .00137 | .00576 |
| %RSD | 1.2120 | .14987 | .28024 | .27542 | .09920 | .04292 | .23790 | 1.1315 |
| #1 | 1.2872 | 1.0827 | 1.1509 | 1.9984 | 2.1137 | .55465 | .57391 | .51273 |
| #2 | 1.2653 | 1.0804 | 1.1555 | 2.0062 | 2.1166 | .55431 | .57584 | .50459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6143.3** | **79512.** | **5806.1** |
| Stddev | 1.5 | 287. | 40.6 |
| %RSD | .02417 | .36057 | .69985 |
| #1 | 6142.3 | 79714. | 5777.4 |
| #2 | 6144.4 | 79309. | 5834.8 |

Sample Name: 280-41656-G-1-C MSD  Acquired: 5/15/2013 2:35:38  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172349 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06102** | **7.1192** | **1.1181** | **1.1732** | **2.2814** | **.05268** | **2.2282** | **73.870** | **.11413** |
| Stddev | .00050 | .0896 | .0009 | .0008 | .0300 | .00075 | .0042 | .964 | .00067 |
| %RSD | .82467 | 1.2589 | .07814 | .07188 | 1.3156 | 1.4166 | .18682 | 1.3046 | .59006 |
| #1 | .06066 | 7.0558 | 1.1175 | 1.1726 | 2.2602 | .05215 | 2.2253 | 73.189 | .11365 |
| #2 | .06137 | 7.1826 | 1.1187 | 1.1738 | 2.3027 | .05321 | 2.2312 | 74.552 | .11461 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54564** | **.23348** | **.28181** | **3.8996** | **68.916** | **1.1053** | **58.506** | **.63720** | **1.0636** |
| Stddev | .00053 | .00005 | .00004 | .0470 | .992 | .0118 | .009 | .00048 | .0007 |
| %RSD | .09743 | .02062 | .01440 | 1.2055 | 1.4389 | 1.0641 | .01615 | .07534 | .06560 |
| #1 | .54526 | .23351 | .28183 | 3.8663 | 68.215 | 1.0969 | 58.513 | .63754 | 1.0631 |
| #2 | .54601 | .23344 | .28178 | 3.9328 | 69.617 | 1.1136 | 58.499 | .63686 | 1.0641 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.499** | **.53723** | **11.382** | **.54300** | **11.127** | **.56114** | **2.2131** | **28.376** | **2.1262** |
| Stddev | .598 | .00055 | .014 | .00243 | .040 | .00415 | .0047 | .391 | .0091 |
| %RSD | .75181 | .10159 | .12052 | .44767 | .35673 | .73981 | .21449 | 1.3773 | .42771 |
| #1 | 79.077 | .53762 | 11.372 | .54129 | 11.099 | .55820 | 2.2098 | 28.099 | 2.1198 |
| #2 | 79.922 | .53684 | 11.391 | .54472 | 11.155 | .56407 | 2.2165 | 28.652 | 2.1326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3203** | **1.1216** | **1.2007** | **2.0720** | **2.2672** | **.57524** | **.59456** | **.53001** |
| Stddev | .0179 | .0049 | .0008 | .0128 | .0242 | .00142 | .00147 | .00518 |
| %RSD | 1.3577 | .43586 | .06601 | .61776 | 1.0659 | .24620 | .24713 | .97793 |
| #1 | 1.3076 | 1.1251 | 1.2012 | 2.0629 | 2.2843 | .57624 | .59352 | .52635 |
| #2 | 1.3330 | 1.1182 | 1.2001 | 2.0810 | 2.2501 | .57424 | .59560 | .53368 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6155.4** | **79172.** | **5783.8** |
| Stddev | 3.0 | 57. | 61.0 |
| %RSD | .04852 | .07159 | 1.0543 |
| #1 | 6153.3 | 79212. | 5826.9 |
| #2 | 6157.5 | 79132. | 5740.6 |

Sample Name: 280-41852-L-3-C Acquired: 5/15/2013 2:37:49 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173330 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.00230** | **-.00207** | **-.00092** | **.00072** | **-.00000** | **-.00209** | **.02939** | **.00001** |
| Stddev | .00001 | .00015 | .00136 | .00010 | .00023 | .00010 | .00248 | .00323 | .00005 |
| %RSD | 4.8370 | 6.4465 | 65.906 | 11.057 | 31.824 | 3919.9 | 118.62 | 10.984 | 374.74 |
| #1 | -.00025 | .00240 | -.00110 | -.00099 | .00089 | .00007 | -.00384 | .03167 | -.00002 |
| #2 | -.00024 | .00219 | -.00303 | -.00085 | .00056 | -.00007 | -.00034 | .02711 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00017** | **.00124** | **.00534** | **.05742** | **.00497** | **.01061** | **.00018** | **.00039** |
| Stddev | .00005 | .00002 | .00021 | .00139 | .00492 | .00126 | .00110 | .00003 | .00018 |
| %RSD | 21.176 | 11.543 | 17.265 | 26.033 | 8.5649 | 25.301 | 10.354 | 15.001 | 46.892 |
| #1 | .00029 | .00016 | .00139 | .00633 | .05394 | .00586 | .01139 | .00016 | .00051 |
| #2 | .00021 | .00019 | .00109 | .00436 | .06090 | .00408 | .00983 | .00020 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24717** | **.00020** | **.17866** | **-.00048** | **.07476** | **-.00129** | **-.00192** | **.03415** | **.00003** |
| Stddev | .01698 | .00025 | .00114 | .00012 | .00023 | .00070 | .00119 | .01996 | .00039 |
| %RSD | 6.8686 | 124.82 | .64073 | 24.980 | .30530 | 54.324 | 61.861 | 58.435 | 1284.2 |
| #1 | .23516 | .00037 | .17947 | -.00040 | .07459 | -.00179 | -.00108 | .04827 | .00031 |
| #2 | .25917 | .00002 | .17785 | -.00057 | .07492 | -.00080 | -.00275 | .02004 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **-.00037** | **-.00019** | **-.00153** | **.01110** | **-.00009** | **.00472** | **.00103** |
| Stddev | .00008 | .00062 | .00032 | .00020 | .01070 | .00049 | .00005 | .00066 |
| %RSD | 37.851 | 166.54 | 173.55 | 12.788 | 96.378 | 565.43 | .97432 | 64.431 |
| #1 | .00027 | -.00081 | .00004 | -.00167 | .00354 | -.00043 | .00475 | .00056 |
| #2 | .00016 | .00007 | -.00041 | -.00139 | .01867 | .00026 | .00468 | .00150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6318.7** | **81617.** | **5805.7** |
| Stddev | 6.7 | 44. | 40.7 |
| %RSD | .10666 | .05429 | .70025 |
| #1 | 6313.9 | 81586. | 5834.4 |
| #2 | 6323.4 | 81649. | 5776.9 |

Sample Name: 280-41852-L-2-C@50 Acquired: 5/15/2013 2:40:19 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173330 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00040** | **.00742** | **.23699** | **.03898** | **.01821** | **.00003** | **-.00173** | **5.7424** | **.00040** |
| Stddev | .00014 | .00010 | .00342 | .00058 | .00048 | .00006 | .00021 | .0222 | .00006 |
| %RSD | 34.503 | 1.3565 | 1.4416 | 1.4759 | 2.6408 | 213.28 | 11.875 | .38662 | 15.698 |
| #1 | -.00049 | .00735 | .23940 | .03939 | .01855 | .00008 | -.00159 | 5.7581 | .00035 |
| #2 | -.00030 | .00749 | .23457 | .03857 | .01787 | -.00002 | -.00188 | 5.7267 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00255** | **.00501** | **.00658** | **.11283** | **46.635** | **.03257** | **4.0485** | **.01825** | **.02367** |
| Stddev | .00020 | .00009 | .00011 | .00208 | .171 | .00207 | .0056 | .00001 | .00002 |
| %RSD | 7.9823 | 1.8731 | 1.7038 | 1.8414 | .36725 | 6.3400 | .13916 | .05974 | .07046 |
| #1 | .00269 | .00508 | .00666 | .11430 | 46.756 | .03403 | 4.0446 | .01824 | .02368 |
| #2 | .00241 | .00495 | .00650 | .11136 | 46.514 | .03111 | 4.0525 | .01826 | .02366 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **101.35** | **.02107** | **.21886** | **.00086** | **16.525** | **.00052** | **-.00329** | **1.6435** | **.00015** |
| Stddev | .02 | .00005 | .00029 | .00001 | .019 | .00144 | .00172 | .0193 | .00019 |
| %RSD | .01968 | .23290 | .13184 | .99229 | .11756 | 277.04 | 52.322 | 1.1756 | 123.71 |
| #1 | 101.34 | .02104 | .21866 | .00086 | 16.539 | -.00050 | -.00207 | 1.6571 | .00028 |
| #2 | 101.37 | .02110 | .21906 | .00087 | 16.512 | .00154 | -.00451 | 1.6298 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05300** | **-.00025** | **-.00014** | **-.00079** | **.06320** | **.00549** | **.00530** | **.00053** |
| Stddev | .00058 | .00108 | .00005 | .00038 | .03676 | .00001 | .00021 | .00043 |
| %RSD | 1.0988 | 428.86 | 38.973 | 48.473 | 58.166 | .19337 | 4.0157 | 81.551 |
| #1 | .05341 | .00051 | -.00018 | -.00106 | .03721 | .00550 | .00545 | .00022 |
| #2 | .05259 | -.00101 | -.00010 | -.00052 | .08920 | .00549 | .00514 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6197.2** | **79821.** | **5785.9** |
| Stddev | 15.1 | 76. | 14.7 |
| %RSD | .24382 | .09476 | .25456 |
| #1 | 6207.9 | 79768. | 5796.3 |
| #2 | 6186.5 | 79875. | 5775.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 2:42:45 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00802** | **50.869** | **-.00238** | **-.00436** | **.00080** | **.00001** | **1.0332** | **-.00197** | **-.00096** | **.00238** | **.00005** | **.00143** | **51.341** |
| Stddev | .00004 | .353 | .00129 | .00000 | .00010 | .00008 | .0034 | .00280 | .00008 | .00002 | .00019 | .00018 | .449 |
| %RSD | .52130 | .69327 | 54.459 | .05262 | 12.008 | 893.21 | .32796 | 142.41 | 8.2405 | .82206 | 377.22 | 12.629 | .87549 |
| #1 | .00799 | 51.118 | -.00329 | -.00436 | .00073 | -.00005 | 1.0308 | -.00395 | -.00090 | .00239 | -.00008 | .00130 | 51.659 |
| #2 | .00805 | 50.620 | -.00146 | -.00436 | .00087 | .00006 | 1.0356 | .00001 | -.00101 | .00237 | .00018 | .00155 | 51.023 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07610** | **.00619** | **-.00962** | **-.00071** | **-.00195** | **260.45** | **.00121** | **.00214** | **.00029** | **5.3891** | **-.00048** | **.00312** | **.01025** |
| Stddev | .04508 | .00246 | .00376 | .00006 | .00024 | 2.67 | .00009 | .00044 | .00036 | .0242 | .00074 | .00396 | .02211 |
| %RSD | 59.243 | 39.767 | 39.113 | 8.3209 | 12.324 | 1.0265 | 7.3735 | 20.705 | 123.24 | .44908 | 154.29 | 126.92 | 215.72 |
| #1 | .04422 | .00445 | -.01228 | -.00076 | -.00212 | 262.34 | .00127 | .00182 | .00055 | 5.3720 | .00004 | .00592 | .02588 |
| #2 | .10798 | .00793 | -.00696 | -.00067 | -.00178 | 258.56 | .00115 | .00245 | .00004 | 5.4062 | -.00100 | .00032 | -.00538 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00038** | **5.2785** | **.00267** | **-.00251** | **10.384** | **-.00016** | **.00336** | **-.04382** |
| Stddev | .00046 | .00020 | .0302 | .00017 | .00067 | .079 | .00028 | .00007 | .00221 |
| %RSD | 324.85 | 51.370 | .57268 | 6.4652 | 26.850 | .76526 | 176.56 | 1.9905 | 5.0392 |
| #1 | .00047 | .00052 | 5.2571 | .00280 | -.00203 | 10.328 | -.00036 | .00332 | -.04226 |
| #2 | -.00018 | .00025 | 5.2999 | .00255 | -.00298 | 10.440 | .00004 | .00341 | -.04538 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6094.4** | **77922.** | **5657.2** |
| Stddev | 2.2 | 126. | 31.3 |
| %RSD | .03565 | .16216 | .55339 |
| #1 | 6092.9 | 77833. | 5635.1 |
| #2 | 6096.0 | 78011. | 5679.4 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 2:45:14 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.55158** | **.50584** | **1.0591** | **.51806** | **.53241** | **.50326** | **-.00137** | **5.2756** | **.53104** | **.53365** | **.51672** | **.52334** |
| Stddev | .00134 | .00022 | .0023 | .00046 | .00123 | .00134 | .00002 | .0077 | .00027 | .00010 | .00035 | .00181 |
| %RSD | .24339 | .04257 | .21459 | .08795 | .23177 | .26628 | 1.1679 | .14683 | .05171 | .01834 | .06731 | .34540 |
| #1 | .55063 | .50569 | 1.0608 | .51773 | .53153 | .50232 | -.00136 | 5.2811 | .53123 | .53372 | .51647 | .52206 |
| #2 | .55253 | .50599 | 1.0575 | .51838 | .53328 | .50421 | -.00138 | 5.2701 | .53084 | .53358 | .51696 | .52461 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .50000 | | | | | | | | | | | |
| Range | 10.000% | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5800** | **53.451** | **1.0746** | F **22.103** | **.54412** | **.51026** | **5.3451** | **.52833** | **1.0292** | **1.0618** | **.00474** | **1.0602** |
| Stddev | .0088 | .152 | .0015 | .047 | .00128 | .00047 | .0096 | .00056 | .0011 | .0028 | .00111 | .0007 |
| %RSD | .34227 | .28529 | .14374 | .21350 | .23555 | .09288 | .17909 | .10558 | .10921 | .26651 | 23.493 | .06846 |
| #1 | 2.5737 | 53.343 | 1.0735 | 22.069 | .54321 | .50993 | 5.3383 | .52794 | 1.0284 | 1.0598 | .00395 | 1.0607 |
| #2 | 2.5862 | 53.559 | 1.0757 | 22.136 | .54503 | .51060 | 5.3519 | .52873 | 1.0300 | 1.0638 | .00553 | 1.0597 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | 20.000 | | | | | | | | |
| Range | | | | 10.000% | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0465** | **5.1854** | **1.0305** | **.51081** | **.00049** | **.53041** | **1.0261** | **.02139** | **.52648** | F **.56274** | **.51727** |
| Stddev | .0087 | .0314 | .0033 | .00033 | .00084 | .00192 | .0012 | .01463 | .00260 | .00093 | .00289 |
| %RSD | .83255 | .60529 | .31691 | .06507 | 169.83 | .36165 | .11770 | 68.370 | .49445 | .16603 | .55966 |
| #1 | 1.0403 | 5.2075 | 1.0282 | .51105 | .00108 | .52905 | 1.0252 | .03174 | .52464 | .56208 | .51931 |
| #2 | 1.0526 | 5.1632 | 1.0328 | .51058 | -.00010 | .53176 | 1.0269 | .01105 | .52832 | .56340 | .51522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6267.8** | **79481.** | **5675.9** |
| Stddev | 12.2 | 96. | 10.7 |
| %RSD | .19493 | .12122 | .18811 |
| #1 | 6259.2 | 79413. | 5683.4 |
| #2 | 6276.5 | 79549. | 5668.3 |

Sample Name: CCB Acquired: 5/15/2013 2:47:27 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **.00013** | **-.00123** | F **-.00595** | **.00029** | **-.00002** | **-.00091** | **-.00405** | **.00013** | **.00041** | **.00007** |
| Stddev | .00046 | .00016 | .00133 | .00011 | .00014 | .00000 | .00069 | .00190 | .00006 | .00001 | .00001 |
| %RSD | 159.96 | 129.87 | 108.12 | 1.8930 | 48.911 | 5.0303 | 75.968 | 47.050 | 47.022 | 3.1933 | 17.336 |
| #1 | .00004 | .00024 | -.00029 | -.00587 | .00039 | -.00003 | -.00140 | -.00270 | .00009 | .00042 | .00007 |
| #2 | -.00062 | .00001 | -.00217 | -.00602 | .00019 | -.00002 | -.00042 | -.00539 | .00018 | .00040 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | W **.02799** | **-.06118** | W **.00502** | **.00103** | **.00015** | **-.00005** | F **.18317** | **-.00037** | **-.00579** | **.00130** |
| Stddev | .00020 | .00180 | .02169 | .00113 | .00003 | .00002 | .00010 | .00602 | .00019 | .00071 | .00136 |
| %RSD | 91.189 | 6.4299 | 35.445 | 22.540 | 2.4896 | 11.878 | 204.17 | 3.2885 | 52.107 | 12.258 | 105.04 |
| #1 | .00037 | .02672 | -.04585 | .00582 | .00105 | .00017 | -.00012 | .17891 | -.00024 | -.00629 | .00226 |
| #2 | .00008 | .02927 | -.07652 | .00422 | .00102 | .00014 | .00002 | .18743 | -.00051 | -.00529 | .00033 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .02200 | | .00261 | | | | .10000 | | | |
| Low Limit | | -.02200 | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00123** | **-.00139** | **-.00094** | **.00390** | **-.00026** | **.00004** | **-.00049** | **-.00004** | **-.00157** | **-.00078** | **.00009** |
| Stddev | .00244 | .00048 | .00219 | .01185 | .00049 | .00002 | .00216 | .00045 | .00016 | .00283 | .00013 |
| %RSD | 198.62 | 34.292 | 233.91 | 304.02 | 191.09 | 35.779 | 438.02 | 1044.4 | 10.312 | 365.46 | 141.29 |
| #1 | .00295 | -.00173 | -.00249 | -.00448 | .00009 | .00005 | -.00202 | .00027 | -.00168 | .00123 | .00019 |
| #2 | -.00050 | -.00105 | .00061 | .01227 | -.00060 | .00003 | .00104 | -.00036 | -.00145 | -.00278 | .00000 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00289** | **.00021** |
| Stddev | .00005 | .00383 |
| %RSD | 1.5566 | 1804.1 |
| #1 | .00286 | -.00250 |
| #2 | .00293 | .00292 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6183.6** | **79906.** | **5691.3** |
| Stddev | 1.3 | 52. | 7.9 |
| %RSD | .02062 | .06512 | .13806 |
| #1 | 6184.5 | 79870. | 5696.9 |
| #2 | 6182.7 | 79943. | 5685.8 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 2:49:57 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01020** | **.09796** | **.01540** | **.09089** | **.01075** | **.00095** | **.10454** | **.20247** | **.00541** | **.01087** | **.01016** |
| Stddev | .00093 | .00008 | .00073 | .00030 | .00032 | .00006 | .00117 | .00713 | .00001 | .00010 | .00003 |
| %RSD | 9.1437 | .08173 | 4.7448 | .33000 | 2.9439 | 5.8429 | 1.1233 | 3.5237 | .21022 | .94924 | .32753 |
| #1 | .00954 | .09791 | .01489 | .09110 | .01097 | .00091 | .10537 | .20751 | .00542 | .01080 | .01019 |
| #2 | .01086 | .09802 | .01592 | .09067 | .01053 | .00099 | .10371 | .19742 | .00540 | .01094 | .01014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01562** | **.10240** | **3.1236** | F **.01698** | **.21953** | **.01067** | **.01949** | **1.1779** | **.04134** | **2.9319** | **.00923** |
| Stddev | .00038 | .00016 | .0156 | .00026 | .00165 | .00008 | .00028 | .0253 | .00001 | .0070 | .00123 |
| %RSD | 2.4278 | .15931 | .49832 | 1.5357 | .74942 | .75351 | 1.4176 | 2.1475 | .02741 | .23807 | 13.305 |
| #1 | .01589 | .10228 | 3.1126 | .01679 | .21836 | .01062 | .01968 | 1.1958 | .04133 | 2.9270 | .01010 |
| #2 | .01535 | .10251 | 3.1346 | .01716 | .22069 | .01073 | .01929 | 1.1600 | .04134 | 2.9368 | .00836 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **.00889** | **.01517** | **.51356** | **.10000** | **.00995** | **.01483** | **.01031** | **.01416** | F **.08220** | **.01015** |
| Stddev | .00156 | .00086 | .00160 | .01344 | .00050 | .00002 | .00132 | .00011 | .00053 | .02039 | .00002 |
| %RSD | 78.206 | 9.6191 | 10.529 | 2.6174 | .50269 | .17894 | 8.9308 | 1.0584 | 3.7111 | 24.813 | .20036 |
| #1 | .00089 | .00950 | .01630 | .52306 | .09964 | .00997 | .01576 | .01039 | .01453 | .06777 | .01016 |
| #2 | .00310 | .00829 | .01404 | .50405 | .10035 | .00994 | .01389 | .01024 | .01379 | .09662 | .01013 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02424** | **.01448** |
| Stddev | .00027 | .00036 |
| %RSD | 1.1312 | 2.4533 |
| #1 | .02443 | .01473 |
| #2 | .02405 | .01423 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6305.7** | **81248.** | **5750.7** |
| Stddev | 6.5 | 138. | 25.0 |
| %RSD | .10355 | .16984 | .43489 |
| #1 | 6310.3 | 81150. | 5733.0 |
| #2 | 6301.1 | 81345. | 5768.4 |

Sample Name: MB 280-173380/1-A Acquired: 5/15/2013 2:52:21 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.00258** | **.00086** | W **-.00666** | **.00069** | **.00003** | **-.00116** | **.00861** | **-.00009** |
| Stddev | .00031 | .00024 | .00076 | .00031 | .00033 | .00001 | .00153 | .00245 | .00011 |
| %RSD | 127.13 | 9.3423 | 88.574 | 4.5879 | 47.866 | 32.276 | 131.59 | 28.465 | 130.47 |
| | | | | | | | | | |
| #1 | -.00002 | .00275 | .00032 | -.00645 | .00092 | .00002 | -.00225 | .00688 | -.00016 |
| #2 | -.00046 | .00241 | .00139 | -.00688 | .00045 | .00004 | -.00008 | .01035 | -.00001 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00008** | **.00024** | **.00762** | **-.05662** | **.00311** | **.00475** | **.00012** | **-.00001** |
| Stddev | .00037 | .00008 | .00007 | .00018 | .05414 | .00228 | .00131 | .00003 | .00031 |
| %RSD | 78.306 | 102.71 | 30.063 | 2.3100 | 95.620 | 73.256 | 27.540 | 23.202 | 2580.2 |
| | | | | | | | | | |
| #1 | .00073 | .00002 | .00029 | .00774 | -.09490 | .00473 | .00382 | .00010 | .00020 |
| #2 | .00021 | .00014 | .00019 | .00749 | -.01834 | .00150 | .00567 | .00014 | -.00023 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14564** | **-.00007** | F **.14370** | **.00014** | **.00436** | **-.00117** | **-.00359** | **.03221** | **-.00043** |
| Stddev | .01003 | .00011 | .00381 | .00034 | .00081 | .00186 | .00018 | .00415 | .00025 |
| %RSD | 6.8853 | 164.80 | 2.6528 | 234.87 | 18.675 | 159.03 | 5.0541 | 12.869 | 57.775 |
| | | | | | | | | | |
| #1 | .15274 | -.00015 | .14640 | .00038 | .00493 | -.00249 | -.00346 | .03514 | -.00061 |
| #2 | .13855 | .00001 | .14101 | -.00010 | .00378 | .00015 | -.00371 | .02928 | -.00025 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00042** | **-.00027** | **-.00151** | **.01495** | **-.00001** | **.00296** | **.00091** |
| Stddev | .00000 | .00128 | .00011 | .00130 | .04591 | .00030 | .00018 | .00120 |
| %RSD | 3.3260 | 302.60 | 42.069 | 85.995 | 307.15 | 2276.9 | 6.2242 | 131.79 |
| | | | | | | | | |
| #1 | -.00007 | -.00048 | -.00035 | -.00243 | -.01751 | -.00022 | .00283 | .00175 |
| #2 | -.00007 | .00133 | -.00019 | -.00059 | .04741 | .00020 | .00309 | .00006 |
| | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6296.8** | **81879.** | **5778.2** |
| Stddev | 2.6 | 311. | 30.9 |
| %RSD | .04055 | .37967 | .53523 |
| | | | |
| #1 | 6298.6 | 82099. | 5756.4 |
| #2 | 6295.0 | 81659. | 5800.1 |

Sample Name: LCS 280-173380/2-A Acquired: 5/15/2013 2:54:50 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05737** | **1.9012** | **1.0579** | **1.0544** | **2.1024** | **.05004** | **2.1207** | **51.188** | **.10824** |
| Stddev | .00021 | .0046 | .0033 | .0013 | .0029 | .00003 | .0010 | .042 | .00002 |
| %RSD | .36664 | .24075 | .30907 | .12669 | .13902 | .05388 | .04718 | .08224 | .02290 |
| #1 | .05752 | 1.9045 | 1.0602 | 1.0554 | 2.1045 | .05002 | 2.1200 | 51.159 | .10826 |
| #2 | .05722 | 1.8980 | 1.0555 | 1.0535 | 2.1004 | .05006 | 2.1214 | 51.218 | .10823 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51782** | **.20371** | **.25835** | **1.0200** | **52.742** | **1.0490** | **54.649** | **.53278** | **1.0052** |
| Stddev | .00050 | .00005 | .00083 | .0017 | .141 | .0005 | .333 | .00199 | .0007 |
| %RSD | .09701 | .02237 | .32272 | .16944 | .26798 | .04926 | .60854 | .37308 | .06729 |
| #1 | .51747 | .20367 | .25894 | 1.0212 | 52.842 | 1.0494 | 54.885 | .53418 | 1.0056 |
| #2 | .51818 | .20374 | .25776 | 1.0187 | 52.642 | 1.0487 | 54.414 | .53137 | 1.0047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.671** | **.50963** | **10.657** | **.51672** | **.00858** | **.53445** | **2.1102** | **10.362** | **2.0251** |
| Stddev | .014 | .00037 | .000 | .00119 | .00230 | .00286 | .0060 | .030 | .0069 |
| %RSD | .02590 | .07289 | .00189 | .22993 | 26.838 | .53481 | .28691 | .28598 | .34282 |
| #1 | 52.681 | .50989 | 10.657 | .51756 | .00696 | .53243 | 2.1059 | 10.383 | 2.0202 |
| #2 | 52.662 | .50937 | 10.656 | .51588 | .01021 | .53647 | 2.1145 | 10.341 | 2.0300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0029** | **1.0498** | **1.0504** | **1.9941** | **2.1123** | **.52537** | F **.55375** | **.49951** |
| Stddev | .0025 | .0027 | .0013 | .0067 | .0380 | .00282 | .00522 | .00145 |
| %RSD | .25083 | .25542 | .11868 | .33561 | 1.7987 | .53661 | .94241 | .29061 |
| #1 | 1.0046 | 1.0517 | 1.0513 | 1.9894 | 2.1391 | .52736 | .55744 | .49848 |
| #2 | 1.0011 | 1.0479 | 1.0495 | 1.9988 | 2.0854 | .52338 | .55006 | .50053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | .55000 | |
| Low Limit | | | | | | | .42500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6118.5** | **77894.** | **5728.3** |
| Stddev | 16.3 | 375. | 5.6 |
| %RSD | .26571 | .48111 | .09836 |
| #1 | 6107.0 | 77629. | 5724.3 |
| #2 | 6130.0 | 78159. | 5732.3 |

Sample Name: 280-41954-B-1-A Acquired: 5/15/2013 2:57:02 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00363** | **-.00057** | **.60697** | **.03291** | **-.00008** | **-.00068** | **82.590** | **.00003** |
| Stddev | .00044 | .00006 | .00050 | .00044 | .00009 | .00005 | .00067 | .142 | .00006 |
| %RSD | 1269.6 | 1.7041 | 87.612 | .07198 | .28586 | 64.978 | 98.387 | .17212 | 212.03 |
| #1 | .00028 | .00358 | -.00022 | .60666 | .03284 | -.00004 | -.00021 | 82.691 | .00008 |
| #2 | -.00035 | .00367 | -.00092 | .60728 | .03297 | -.00011 | -.00115 | 82.490 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **.00049** | **.00182** | **.00827** | **17.494** | **.31153** | **30.523** | **.87413** | **.02440** |
| Stddev | .00002 | .00009 | .00037 | .00020 | .055 | .00137 | .008 | .00134 | .00006 |
| %RSD | 2.4721 | 18.784 | 20.104 | 2.4793 | .31525 | .44011 | .02755 | .15326 | .25630 |
| #1 | .00079 | .00042 | .00208 | .00812 | 17.533 | .31250 | 30.517 | .87319 | .02445 |
| #2 | .00077 | .00055 | .00156 | .00841 | 17.455 | .31056 | 30.529 | .87508 | .02436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **517.69** | **.00268** | **.17649** | **.00126** | **239.64** | **-.00091** | **-.00192** | **9.8583** | **-.00044** |
| Stddev | 2.71 | .00026 | .00089 | .00052 | .22 | .00183 | .00356 | .0041 | .00060 |
| %RSD | .52301 | 9.8849 | .50223 | 41.442 | .09124 | 202.16 | 185.45 | .04128 | 134.99 |
| #1 | 519.61 | .00249 | .17711 | .00163 | 239.48 | -.00220 | .00060 | 9.8611 | -.00002 |
| #2 | 515.78 | .00286 | .17586 | .00089 | 239.79 | .00039 | -.00444 | 9.8554 | -.00087 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4105** | **-.00056** | **.00040** | **.00193** | **.00713** | **.00256** | **.00615** | **.00075** |
| Stddev | .0051 | .00082 | .00006 | .00057 | .02540 | .00080 | .00003 | .00230 |
| %RSD | .36462 | 146.00 | 14.145 | 29.650 | 356.07 | 31.460 | .54386 | 307.84 |
| #1 | 1.4141 | -.00115 | .00044 | .00233 | -.01083 | .00199 | .00612 | -.00088 |
| #2 | 1.4069 | .00002 | .00036 | .00153 | .02510 | .00312 | .00617 | .00238 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5964.5** | **76981.** | **5664.9** |
| Stddev | .1 | 199. | 30.3 |
| %RSD | .00112 | .25804 | .53446 |
| #1 | 5964.5 | 77122. | 5643.5 |
| #2 | 5964.4 | 76841. | 5686.3 |

Sample Name: sd 280-41954-B-1-A@5 Acquired: 5/15/2013 3:00:07 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.00081** | **-.00048** | **.13370** | **.00832** | **.00001** | **-.00119** | **19.924** | **-.00001** |
| Stddev | .00019 | .00054 | .00237 | .00060 | .00040 | .00012 | .00087 | .086 | .00004 |
| %RSD | 80.811 | 66.727 | 494.04 | .44825 | 4.8282 | 1044.7 | 72.837 | .43355 | 530.60 |
| #1 | -.00010 | .00043 | -.00216 | .13327 | .00861 | -.00007 | -.00058 | 19.985 | -.00004 |
| #2 | -.00037 | .00119 | .00120 | .13412 | .00804 | .00009 | -.00180 | 19.863 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00037** | **.00117** | **.24650** | **4.0202** | **.07653** | **7.4755** | **.21424** | **.00568** |
| Stddev | .00030 | .00012 | .00028 | .00086 | .0217 | .00096 | .0147 | .00062 | .00003 |
| %RSD | 77.236 | 33.769 | 23.598 | .34871 | .54013 | 1.2500 | .19713 | .29155 | .55941 |
| #1 | .00017 | .00028 | .00098 | .24589 | 4.0355 | .07720 | 7.4859 | .21468 | .00570 |
| #2 | .00059 | .00046 | .00137 | .24710 | 4.0048 | .07585 | 7.4651 | .21380 | .00566 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **121.25** | **.00091** | **.03363** | **.00050** | **51.601** | **-.00199** | **.00026** | **2.2505** | **-.00057** |
| Stddev | .54 | .00005 | .00137 | .00187 | .206 | .00241 | .00310 | .0155 | .00046 |
| %RSD | .44584 | 5.3317 | 4.0875 | 370.31 | .39968 | 121.42 | 1177.9 | .68645 | 79.557 |
| #1 | 121.63 | .00094 | .03266 | -.00082 | 51.747 | -.00028 | .00246 | 2.2614 | -.00025 |
| #2 | 120.87 | .00087 | .03460 | .00182 | 51.455 | -.00369 | -.00193 | 2.2395 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33965** | **-.00053** | **.00006** | **-.00080** | **.06206** | **.00057** | **.00414** | **.00066** |
| Stddev | .00218 | .00200 | .00017 | .00001 | .04416 | .00052 | .00042 | .00150 |
| %RSD | .64114 | 380.15 | 270.25 | .90552 | 71.151 | 91.220 | 10.170 | 226.94 |
| #1 | .34119 | -.00194 | -.00006 | -.00080 | .09328 | .00093 | .00444 | .00173 |
| #2 | .33812 | .00089 | .00018 | -.00079 | .03084 | .00020 | .00384 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6113.6** | **79309.** | **5700.2** |
| Stddev | 12.3 | 279. | 29.7 |
| %RSD | .20049 | .35231 | .52026 |
| #1 | 6105.0 | 79112. | 5679.2 |
| #2 | 6122.3 | 79507. | 5721.1 |

Sample Name: 280-41954-B-1-B MS  Acquired: 5/15/2013 3:02:33  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05658** | **1.6564** | **.99817** | **1.6001** | **1.9310** | **.04449** | **2.0045** | **132.34** | **.10054** |
| Stddev | .00005 | .0042 | .00596 | .0017 | .0017 | .00002 | .0027 | .01 | .00013 |
| %RSD | .09527 | .25427 | .59675 | .10457 | .08853 | .04169 | .13526 | .00765 | .12491 |
| #1 | .05661 | 1.6535 | .99396 | 1.5990 | 1.9298 | .04450 | 2.0026 | 132.35 | .10045 |
| #2 | .05654 | 1.6594 | 1.0024 | 1.6013 | 1.9322 | .04447 | 2.0064 | 132.33 | .10063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46333** | **.17890** | **.23431** | **.91075** | **68.042** | **1.2837** | **79.114** | **1.3783** | **.92694** |
| Stddev | .00070 | .00060 | .00034 | .00753 | .210 | .0013 | .109 | .0007 | .00228 |
| %RSD | .15039 | .33698 | .14619 | .82659 | .30846 | .10394 | .13731 | .04894 | .24553 |
| #1 | .46283 | .17847 | .23406 | .91607 | 67.894 | 1.2828 | 79.191 | 1.3778 | .92533 |
| #2 | .46382 | .17932 | .23455 | .90542 | 68.190 | 1.2847 | 79.038 | 1.3788 | .92855 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **589.26** | **.45433** | **10.279** | **.46191** | **250.09** | **.49098** | **1.9778** | **20.007** | **1.8001** |
| Stddev | 1.84 | .00088 | .023 | .00162 | .44 | .00490 | .0024 | .135 | .0066 |
| %RSD | .31306 | .19391 | .22233 | .35071 | .17401 | .99730 | .12296 | .67336 | .36402 |
| #1 | 590.57 | .45371 | 10.263 | .46077 | 249.78 | .48752 | 1.9761 | 20.102 | 1.7955 |
| #2 | 587.96 | .45496 | 10.295 | .46306 | 250.40 | .49445 | 1.9795 | 19.912 | 1.8048 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3853** | **.94652** | **.93260** | **1.7595** | **1.8537** | **.47452** | **.49707** | **.44830** |
| Stddev | .0051 | .00061 | .00106 | .0037 | .0235 | .00097 | .00152 | .00759 |
| %RSD | .21431 | .06457 | .11377 | .21273 | 1.2684 | .20452 | .30561 | 1.6922 |
| #1 | 2.3889 | .94609 | .93185 | 1.7569 | 1.8704 | .47384 | .49814 | .45367 |
| #2 | 2.3816 | .94695 | .93335 | 1.7622 | 1.8371 | .47521 | .49599 | .44294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5897.2** | **76852.** | **5661.2** |
| Stddev | 1.0 | 59. | 5.5 |
| %RSD | .01770 | .07649 | .09643 |
| #1 | 5897.9 | 76810. | 5665.0 |
| #2 | 5896.4 | 76893. | 5657.3 |

Sample Name: 280-41954-B-1-C MSD Acquired: 5/15/2013 3:05:25 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05974** | **1.7997** | **1.0764** | **1.7089** | **2.1071** | **.04877** | **2.1202** | **144.24** | **.10764** |
| Stddev | .00055 | .0017 | .0011 | .0044 | .0077 | .00022 | .0006 | .33 | .00004 |
| %RSD | .92762 | .09396 | .10369 | .25853 | .36469 | .44764 | .02594 | .22947 | .03907 |
| #1 | .05935 | 1.8009 | 1.0771 | 1.7058 | 2.1016 | .04893 | 2.1206 | 144.00 | .10767 |
| #2 | .06013 | 1.7985 | 1.0756 | 1.7120 | 2.1125 | .04862 | 2.1198 | 144.47 | .10761 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50333** | **.19571** | **.25757** | **1.0028** | **72.907** | **1.3905** | **86.535** | **1.5038** | **1.0070** |
| Stddev | .00033 | .00019 | .00067 | .0028 | .195 | .0018 | .088 | .0023 | .0026 |
| %RSD | .06582 | .09768 | .25873 | .28215 | .26783 | .13163 | .10211 | .15303 | .25674 |
| #1 | .50309 | .19558 | .25804 | 1.0008 | 72.768 | 1.3892 | 86.598 | 1.5022 | 1.0052 |
| #2 | .50356 | .19585 | .25710 | 1.0048 | 73.045 | 1.3918 | 86.473 | 1.5055 | 1.0088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **632.13** | **.49366** | **11.057** | **.49473** | **263.68** | **.53178** | **2.1205** | **21.550** | **1.9489** |
| Stddev | 2.22 | .00013 | .000 | .00243 | .39 | .00318 | .0020 | .071 | .0001 |
| %RSD | .35126 | .02579 | .00116 | .49190 | .14928 | .59733 | .09442 | .32756 | .00286 |
| #1 | 633.70 | .49357 | 11.057 | .49645 | 263.40 | .52954 | 2.1191 | 21.500 | 1.9489 |
| #2 | 630.56 | .49375 | 11.058 | .49301 | 263.95 | .53403 | 2.1219 | 21.600 | 1.9490 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6032** | **1.0379** | **1.0236** | **1.8526** | **2.0680** | **.51625** | **.53843** | **.49208** |
| Stddev | .0007 | .0002 | .0020 | .0031 | .0081 | .00028 | .00004 | .00071 |
| %RSD | .02645 | .01561 | .19663 | .16478 | .39392 | .05329 | .00794 | .14493 |
| #1 | 2.6037 | 1.0380 | 1.0221 | 1.8505 | 2.0622 | .51605 | .53846 | .49259 |
| #2 | 2.6027 | 1.0378 | 1.0250 | 1.8548 | 2.0737 | .51644 | .53840 | .49158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5921.5** | **76382.** | **5701.2** |
| Stddev | 1.5 | 53. | 4.3 |
| %RSD | .02531 | .06969 | .07584 |
| #1 | 5922.6 | 76344. | 5704.2 |
| #2 | 5920.5 | 76420. | 5698.1 |

Sample Name: 280-41954-B-2-A Acquired: 5/15/2013 3:08:16 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00053** | **.00972** | **.00703** | **.67467** | **.02851** | **.00000** | **-.00104** | **26.947** | **-.00027** |
| Stddev | .00076 | .00019 | .00193 | .00109 | .00006 | .00006 | .00085 | .069 | .00013 |
| %RSD | 143.65 | 1.9524 | 27.448 | .16129 | .19891 | 2226.5 | 80.893 | .25466 | 49.714 |
| #1 | -.00107 | .00959 | .00567 | .67544 | .02855 | .00005 | -.00164 | 26.996 | -.00018 |
| #2 | .00001 | .00986 | .00839 | .67390 | .02847 | -.00004 | -.00045 | 26.899 | -.00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00028** | **.00129** | **.01399** | **9.9733** | **.24461** | **10.798** | **.13028** | **.03559** |
| Stddev | .00017 | .00011 | .00025 | .00013 | .0495 | .00222 | .115 | .00132 | .00008 |
| %RSD | 54.925 | 39.945 | 19.466 | .93199 | .49662 | .90633 | 1.0646 | 1.0156 | .21718 |
| #1 | .00019 | .00020 | .00147 | .01390 | 10.008 | .24617 | 10.879 | .13121 | .03564 |
| #2 | .00043 | .00036 | .00112 | .01409 | 9.9382 | .24304 | 10.717 | .12934 | .03553 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **434.60** | **.00510** | **.15251** | **.00152** | **136.75** | **-.00260** | **.00161** | **7.6706** | **-.00047** |
| Stddev | 1.00 | .00027 | .00442 | .00023 | .29 | .00116 | .00005 | .0090 | .00026 |
| %RSD | .23122 | 5.2859 | 2.8983 | 14.896 | .21483 | 44.752 | 3.2466 | .11752 | 55.498 |
| #1 | 435.31 | .00491 | .15563 | .00136 | 136.96 | -.00342 | .00157 | 7.6643 | -.00065 |
| #2 | 433.89 | .00529 | .14938 | .00168 | 136.55 | -.00178 | .00164 | 7.6770 | -.00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47808** | **-.00005** | **.00016** | **.00055** | **.03619** | **.00121** | **.00582** | **.00155** |
| Stddev | .00209 | .00012 | .00001 | .00002 | .03375 | .00016 | .00020 | .00099 |
| %RSD | .43783 | 232.57 | 3.5307 | 4.1299 | 93.241 | 13.290 | 3.5041 | 63.914 |
| #1 | .47956 | .00003 | .00017 | .00054 | .06005 | .00109 | .00568 | .00085 |
| #2 | .47660 | -.00014 | .00016 | .00057 | .01233 | .00132 | .00596 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5996.4** | **77725.** | **5704.7** |
| Stddev | 25.7 | 577. | 11.3 |
| %RSD | .42928 | .74206 | .19753 |
| #1 | 6014.6 | 77317. | 5696.7 |
| #2 | 5978.2 | 78132. | 5712.6 |

Sample Name: 280-41954-B-3-A Acquired: 5/15/2013 3:10:46 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.00723** | **.00032** | **.92041** | **.04130** | **-.00003** | **.00082** | **116.40** | **-.00002** |
| Stddev | .00053 | .00062 | .00356 | .00253 | .00035 | .00009 | .00002 | .56 | .00020 |
| %RSD | 232.68 | 8.5540 | 1111.9 | .27496 | .84388 | 250.44 | 2.1179 | .48328 | 1262.6 |
| #1 | .00015 | .00767 | .00283 | .91862 | .04106 | .00003 | .00080 | 116.80 | .00012 |
| #2 | -.00060 | .00679 | -.00219 | .92220 | .04155 | -.00010 | .00083 | 116.00 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **.00070** | **.00154** | **.01533** | **25.291** | **.33610** | **35.713** | **1.1434** | **.03888** |
| Stddev | .00006 | .00001 | .00009 | .00063 | .042 | .00169 | .060 | .0004 | .00015 |
| %RSD | 3.8634 | .99305 | 5.8989 | 4.1179 | .16691 | .50254 | .16913 | .03825 | .38172 |
| #1 | .00142 | .00071 | .00161 | .01488 | 25.320 | .33730 | 35.756 | 1.1437 | .03899 |
| #2 | .00150 | .00070 | .00148 | .01577 | 25.261 | .33491 | 35.670 | 1.1431 | .03878 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **541.73** | **.00307** | **.18957** | **.00113** | **286.60** | **-.00094** | **-.00170** | **9.2955** | **-.00046** |
| Stddev | 3.53 | .00006 | .00646 | .00117 | .30 | .00054 | .00182 | .0297 | .00109 |
| %RSD | .65180 | 1.9388 | 3.4076 | 104.17 | .10496 | 57.532 | 106.79 | .31989 | 234.58 |
| #1 | 544.22 | .00303 | .19414 | .00030 | 286.38 | -.00132 | -.00042 | 9.2745 | .00031 |
| #2 | 539.23 | .00312 | .18500 | .00195 | 286.81 | -.00056 | -.00299 | 9.3165 | -.00124 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9404** | **-.00097** | **.00064** | **.00023** | **.03370** | **.00304** | **.00367** | **.00186** |
| Stddev | .0091 | .00079 | .00029 | .00018 | .02416 | .00064 | .00023 | .00182 |
| %RSD | .46876 | 81.256 | 45.004 | 76.152 | 71.693 | 21.174 | 6.2609 | 98.002 |
| #1 | 1.9468 | -.00152 | .00044 | .00011 | .01662 | .00349 | .00383 | .00315 |
| #2 | 1.9340 | -.00041 | .00085 | .00036 | .05079 | .00258 | .00351 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5910.9** | **75421.** | **5630.0** |
| Stddev | 3.0 | 206. | 45.9 |
| %RSD | .05023 | .27260 | .81572 |
| #1 | 5908.8 | 75275. | 5597.5 |
| #2 | 5913.0 | 75566. | 5662.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 3:13:49 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00788** | **51.623** | **-.00132** | **-.00268** | **.00059** | **-.00001** | **1.0437** | **.00915** | **-.00095** | **.00226** | **.00005** | **.00172** | **52.118** |
| Stddev | .00003 | .275 | .00092 | .00008 | .00021 | .00000 | .0010 | .00080 | .00017 | .00027 | .00010 | .00009 | .113 |
| %RSD | .32080 | .53300 | 69.728 | 2.8855 | 35.227 | 36.399 | .09116 | 8.7292 | 17.930 | 11.944 | 199.36 | 5.1547 | .21595 |
| #1 | .00790 | 51.817 | -.00067 | -.00263 | .00044 | -.00002 | 1.0430 | .00859 | -.00107 | .00245 | .00012 | .00166 | 52.197 |
| #2 | .00786 | 51.428 | -.00197 | -.00274 | .00074 | -.00001 | 1.0443 | .00972 | -.00083 | .00207 | -.00002 | .00178 | 52.038 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17541** | **.00692** | **-.00759** | **-.00059** | **-.00217** | **263.34** | **.00103** | **-.00267** | **-.00061** | **5.4594** | **-.00058** | **.00367** | **.03820** |
| Stddev | .00605 | .00097 | .01046 | .00015 | .00024 | 2.02 | .00026 | .00001 | .00014 | .0230 | .00173 | .00038 | .00361 |
| %RSD | 3.4482 | 14.080 | 137.81 | 25.618 | 11.183 | .76651 | 24.953 | .41530 | 22.885 | .42168 | 299.57 | 10.236 | 9.4389 |
| #1 | .17113 | .00623 | -.00019 | -.00048 | -.00235 | 264.77 | .00085 | -.00266 | -.00051 | 5.4757 | -.00180 | .00340 | .03565 |
| #2 | .17969 | .00761 | -.01499 | -.00069 | -.00200 | 261.92 | .00121 | -.00268 | -.00070 | 5.4431 | .00065 | .00394 | .04075 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00041** | **5.3174** | **.00294** | **-.00201** | **10.398** | **.00011** | **.00375** | **-.04385** |
| Stddev | .00041 | .00011 | .0021 | .00003 | .00087 | .034 | .00022 | .00015 | .00007 |
| %RSD | 113.28 | 25.910 | .03996 | 1.0977 | 43.325 | .32817 | 210.96 | 3.9003 | .16227 |
| #1 | .00066 | .00033 | 5.3159 | .00296 | -.00139 | 10.374 | .00027 | .00365 | -.04379 |
| #2 | .00007 | .00048 | 5.3189 | .00291 | -.00262 | 10.422 | -.00005 | .00385 | -.04390 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6130.1** | **78437.** | **5657.8** |
| Stddev | 11.6 | 229. | 48.3 |
| %RSD | .18857 | .29155 | .85408 |
| #1 | 6121.9 | 78275. | 5623.6 |
| #2 | 6138.3 | 78599. | 5691.9 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 3:16:15 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53946** | **.48885** | **1.0348** | **.50580** | **.52238** | **.49235** | **.00015** | **5.1714** | **.51932** | **.52185** | **.50339** | **.50924** | **2.5137** |
| Stddev | .00006 | .00051 | .0013 | .00053 | .00201 | .00196 | .00181 | .0338 | .00028 | .00022 | .00015 | .00029 | .0175 |
| %RSD | .01080 | .10522 | .12781 | .10519 | .38565 | .39875 | 1197.3 | .65350 | .05471 | .04301 | .03020 | .05724 | .69661 |
| #1 | .53941 | .48849 | 1.0358 | .50618 | .52381 | .49374 | .00143 | 5.1953 | .51912 | .52169 | .50328 | .50945 | 2.5261 |
| #2 | .53950 | .48921 | 1.0339 | .50543 | .52096 | .49096 | -.00113 | 5.1475 | .51952 | .52201 | .50350 | .50904 | 2.5013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.381** | **1.0520** | **21.450** | **.53085** | **.49675** | **5.4709** | **.51586** | **1.0095** | **1.0368** | **.02805** | **1.0442** | **1.0189** | **5.0698** |
| Stddev | .201 | .0036 | .033 | .00031 | .00167 | .0226 | .00141 | .0046 | .0041 | .00027 | .0020 | .0051 | .0034 |
| %RSD | .38448 | .34402 | .15396 | .05863 | .33582 | .41265 | .27370 | .45805 | .39667 | .97975 | .19283 | .49983 | .06707 |
| #1 | 52.523 | 1.0546 | 21.473 | .53063 | .49557 | 5.4869 | .51486 | 1.0063 | 1.0339 | .02824 | 1.0428 | 1.0153 | 5.0722 |
| #2 | 52.239 | 1.0495 | 21.426 | .53107 | .49793 | 5.4550 | .51686 | 1.0128 | 1.0398 | .02785 | 1.0456 | 1.0225 | 5.0674 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0064** | **.49925** | **-.00037** | **.51820** | **1.0012** | **.02774** | **.51291** | **.54679** | **.50384** |
| Stddev | .0026 | .00204 | .00035 | .00000 | .0018 | .03534 | .00032 | .00079 | .00053 |
| %RSD | .26182 | .40861 | 95.604 | .00062 | .17584 | 127.43 | .06221 | .14526 | .10572 |
| #1 | 1.0046 | .50069 | -.00061 | .51820 | .99997 | .05273 | .51269 | .54735 | .50422 |
| #2 | 1.0083 | .49781 | -.00012 | .51820 | 1.0025 | .00274 | .51314 | .54623 | .50347 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6220.0** | **80481.** | **5667.5** |
| Stddev | 8.2 | 219. | 28.6 |
| %RSD | .13243 | .27241 | .50502 |
| #1 | 6225.8 | 80326. | 5647.2 |
| #2 | 6214.2 | 80636. | 5687.7 |

Sample Name: CCB Acquired: 5/15/2013 3:18:27 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00027** | **-.00110** | F **-.00492** | W **.00083** | **-.00001** | **-.00091** | **.00170** | **.00005** | **.00046** | **-.00002** |
| Stddev | .00047 | .00041 | .00340 | .00029 | .00013 | .00009 | .00285 | .00053 | .00003 | .00018 | .00010 |
| %RSD | 773.56 | 153.39 | 309.30 | 5.9579 | 16.083 | 1446.3 | 313.91 | 31.449 | 70.533 | 39.604 | 403.01 |
| #1 | -.00040 | -.00002 | .00131 | -.00472 | .00074 | .00006 | -.00293 | .00207 | .00007 | .00059 | .00004 |
| #2 | .00027 | .00056 | -.00350 | -.00513 | .00093 | -.00007 | .00111 | .00132 | .00002 | .00033 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00024** | **.01770** | W **.00471** | **.00154** | **.00011** | **-.00005** | F **.36448** | **-.00017** | **-.00906** | **-.00072** |
| Stddev | .00046 | .00061 | .03275 | .00098 | .00180 | .00008 | .00008 | .01827 | .00033 | .00013 | .00168 |
| %RSD | 732.93 | 255.17 | 185.07 | 20.901 | 116.80 | 72.438 | 138.58 | 5.0137 | 190.54 | 1.4312 | 234.70 |
| #1 | .00026 | -.00019 | -.00546 | .00401 | .00027 | .00016 | -.00000 | .37741 | -.00040 | -.00915 | .00047 |
| #2 | -.00038 | .00067 | .04085 | .00541 | .00282 | .00005 | -.00011 | .35156 | .00006 | -.00897 | -.00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02106** | **.00016** | **-.00352** | **.01660** | **-.00017** | **.00010** | **-.00010** | **.00036** | **-.00006** | **.01620** | **.00004** |
| Stddev | .00217 | .00093 | .00237 | .00130 | .00048 | .00019 | .00031 | .00029 | .00128 | .01486 | .00024 |
| %RSD | 10.325 | 597.36 | 67.358 | 7.8359 | 272.58 | 182.45 | 302.65 | 81.385 | 2207.4 | 91.713 | 576.45 |
| #1 | .01953 | .00082 | -.00184 | .01568 | .00016 | .00024 | -.00033 | .00015 | -.00096 | .00569 | .00021 |
| #2 | .02260 | -.00050 | -.00520 | .01752 | -.00051 | -.00003 | .00012 | .00056 | .00084 | .02671 | -.00013 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00308** | **.00234** |
| Stddev | .00038 | .00110 |
| %RSD | 12.234 | 47.011 |
| #1 | .00281 | .00312 |
| #2 | .00335 | .00156 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6238.2** | **80222.** | **5750.5** |
| Stddev | 2.1 | 45. | 24.4 |
| %RSD | .03370 | .05610 | .42431 |
| #1 | 6239.7 | 80191. | 5733.2 |
| #2 | 6236.7 | 80254. | 5767.7 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 3:20:56 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01085** | **.09836** | **.01484** | **.09117** | **.01069** | **.00089** | **.10630** | **.20088** | **.00524** | **.01071** | **.01007** |
| Stddev | .00008 | .00011 | .00080 | .00068 | .00038 | .00003 | .00204 | .00653 | .00009 | .00002 | .00008 |
| %RSD | .71693 | .10992 | 5.4208 | .74410 | 3.5934 | 3.4129 | 1.9205 | 3.2495 | 1.8068 | .17033 | .77756 |
| #1 | .01090 | .09844 | .01427 | .09069 | .01096 | .00091 | .10486 | .19627 | .00518 | .01072 | .01002 |
| #2 | .01079 | .09829 | .01541 | .09165 | .01042 | .00087 | .10774 | .20550 | .00531 | .01070 | .01013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01540** | **.10271** | **3.2184** | F **.01534** | **.21953** | **.01081** | **.01950** | F **1.3157** | **.04135** | **2.9019** | **.00979** |
| Stddev | .00013 | .00259 | .0117 | .00245 | .00269 | .00005 | .00023 | .0031 | .00007 | .0100 | .00020 |
| %RSD | .84094 | 2.5251 | .36386 | 15.989 | 1.2248 | .48000 | 1.1641 | .23464 | .16360 | .34304 | 2.0040 |
| #1 | .01550 | .10454 | 3.2101 | .01361 | .22143 | .01077 | .01934 | 1.3179 | .04130 | 2.8948 | .00965 |
| #2 | .01531 | .10087 | 3.2267 | .01707 | .21762 | .01084 | .01966 | 1.3135 | .04140 | 2.9089 | .00993 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01593** | **.01048** | W **.01134** | **.51492** | **.09927** | **.00999** | **.01463** | **.01016** | **.01490** | **.06884** | **.00998** |
| Stddev | .00115 | .00148 | .00159 | .00269 | .00096 | .00003 | .00132 | .00045 | .00000 | .02705 | .00001 |
| %RSD | 7.2522 | 14.112 | 14.056 | .52210 | .97108 | .26453 | 9.0037 | 4.3860 | .00458 | 39.288 | .12252 |
| #1 | .01674 | .00943 | .01021 | .51682 | .09859 | .01001 | .01370 | .01047 | .01490 | .08797 | .00999 |
| #2 | .01511 | .01152 | .01246 | .51302 | .09995 | .00997 | .01556 | .00984 | .01490 | .04972 | .00997 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | -20.000% | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02483** | **.01628** |
| Stddev | .00006 | .00050 |
| %RSD | .23230 | 3.0618 |
| #1 | .02487 | .01664 |
| #2 | .02479 | .01593 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6343.1** | **81407.** | **5740.2** |
| Stddev | 9.0 | 649. | 41.7 |
| %RSD | .14129 | .79748 | .72648 |
| #1 | 6349.4 | 80948. | 5769.7 |
| #2 | 6336.7 | 81866. | 5710.7 |

Sample Name: 280-41954-B-4-A Acquired: 5/15/2013 3:23:21 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00383** | **.00302** | **.80592** | **.02509** | **.00002** | **-.00150** | **93.170** | **.00003** |
| Stddev | .00013 | .00005 | .00140 | .00086 | .00030 | .00001 | .00070 | .295 | .00027 |
| %RSD | 202.63 | 1.2179 | 46.462 | .10690 | 1.1868 | 31.408 | 46.631 | .31670 | 796.65 |
| #1 | -.00016 | .00386 | .00203 | .80531 | .02488 | .00003 | -.00100 | 92.961 | .00022 |
| #2 | .00003 | .00380 | .00401 | .80653 | .02530 | .00002 | -.00199 | 93.378 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00044** | **.00131** | **.01536** | **5.6082** | **.39224** | **30.851** | **.00436** | **.02503** |
| Stddev | .00023 | .00016 | .00017 | .00012 | .0625 | .00023 | .007 | .00001 | .00033 |
| %RSD | 35.322 | 36.359 | 12.971 | .79974 | 1.1151 | .05758 | .02343 | .32201 | 1.3231 |
| #1 | .00080 | .00056 | .00119 | .01527 | 5.5640 | .39239 | 30.846 | .00437 | .02480 |
| #2 | .00048 | .00033 | .00143 | .01544 | 5.6524 | .39208 | 30.856 | .00435 | .02527 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **586.69** | **.00134** | **.21617** | **.00169** | **312.98** | **-.00085** | **.00541** | **13.705** | **-.00075** |
| Stddev | 1.29 | .00007 | .00090 | .00225 | .49 | .00096 | .00223 | .087 | .00012 |
| %RSD | .21981 | 5.4732 | .41440 | 133.13 | .15627 | 112.68 | 41.250 | .63646 | 16.022 |
| #1 | 585.78 | .00129 | .21680 | .00010 | 313.32 | -.00017 | .00699 | 13.643 | -.00084 |
| #2 | 587.60 | .00140 | .21553 | .00328 | 312.63 | -.00153 | .00383 | 13.766 | -.00067 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89375** | **.00003** | **.00051** | **.00004** | **.00344** | **.00578** | **.00668** | **.00080** |
| Stddev | .00263 | .00166 | .00013 | .00139 | .04753 | .00032 | .00036 | .00131 |
| %RSD | .29474 | 5812.7 | 24.687 | 3904.5 | 1381.4 | 5.5142 | 5.3560 | 164.51 |
| #1 | .89188 | -.00115 | .00042 | -.00094 | .03705 | .00556 | .00643 | .00172 |
| #2 | .89561 | .00121 | .00060 | .00102 | -.03017 | .00601 | .00694 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5990.8** | **77238.** | **5628.8** |
| Stddev | 14.7 | 302. | 9.4 |
| %RSD | .24586 | .39044 | .16640 |
| #1 | 5980.4 | 77451. | 5635.5 |
| #2 | 6001.2 | 77025. | 5622.2 |

Sample Name: 280-41954-B-5-A Acquired: 5/15/2013 3:26:25 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00361** | **.00216** | **.78933** | **.02412** | **-.00001** | **-.00247** | **89.856** | **-.00013** |
| Stddev | .00049 | .00016 | .00264 | .00494 | .00015 | .00012 | .00507 | .017 | .00012 |
| %RSD | 324.19 | 4.3985 | 122.54 | .62585 | .64121 | 1470.9 | 204.80 | .01837 | 90.234 |
| #1 | -.00020 | .00372 | .00029 | .78583 | .02423 | .00008 | -.00605 | 89.867 | -.00005 |
| #2 | .00050 | .00350 | .00402 | .79282 | .02401 | -.00009 | .00111 | 89.844 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00055** | **.00129** | **.01461** | **5.5398** | **.38489** | **30.186** | **.00421** | **.02463** |
| Stddev | .00003 | .00005 | .00046 | .00016 | .0303 | .00153 | .008 | .00001 | .00016 |
| %RSD | 6.1220 | 8.2888 | 35.456 | 1.0936 | .54661 | .39718 | .02628 | .23748 | .64558 |
| #1 | .00045 | .00058 | .00161 | .01472 | 5.5612 | .38380 | 30.192 | .00421 | .02451 |
| #2 | .00041 | .00052 | .00096 | .01449 | 5.5184 | .38597 | 30.181 | .00422 | .02474 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **572.06** | **.00108** | **.22012** | **.00060** | **304.23** | **-.00149** | **.00269** | **13.181** | **-.00029** |
| Stddev | .24 | .00002 | .00147 | .00010 | .02 | .00075 | .00288 | .063 | .00013 |
| %RSD | .04261 | 2.3142 | .66972 | 17.349 | .00657 | 50.197 | 106.86 | .47694 | 44.068 |
| #1 | 572.23 | .00106 | .22116 | .00067 | 304.25 | -.00202 | .00066 | 13.137 | -.00020 |
| #2 | 571.89 | .00109 | .21907 | .00053 | 304.22 | -.00096 | .00473 | 13.226 | -.00038 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89323** | **-.00047** | **.00035** | **-.00001** | **.00437** | **.00593** | **.00677** | **.00054** |
| Stddev | .00194 | .00055 | .00015 | .00020 | .01299 | .00062 | .00009 | .00042 |
| %RSD | .21769 | 117.58 | 41.321 | 1656.6 | 297.55 | 10.462 | 1.2691 | 78.550 |
| #1 | .89460 | -.00085 | .00025 | .00013 | -.00482 | .00549 | .00683 | .00084 |
| #2 | .89185 | -.00008 | .00046 | -.00015 | .01355 | .00637 | .00671 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6028.9** | **77899.** | **5744.0** |
| Stddev | 11.2 | 142. | 33.1 |
| %RSD | .18547 | .18204 | .57578 |
| #1 | 6020.9 | 77799. | 5720.6 |
| #2 | 6036.8 | 77999. | 5767.4 |

Sample Name: 280-41954-B-6-A Acquired: 5/15/2013 3:29:30 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00422** | **.00219** | **.21801** | **.09323** | **-.00009** | **-.00375** | **81.622** | **.00006** |
| Stddev | .00045 | .00017 | .00039 | .00106 | .00096 | .00002 | .00077 | .533 | .00022 |
| %RSD | 870.29 | 4.1005 | 17.656 | .48427 | 1.0259 | 18.474 | 20.492 | .65350 | 383.81 |
| #1 | -.00027 | .00410 | .00192 | .21726 | .09256 | -.00007 | -.00430 | 81.245 | -.00010 |
| #2 | .00037 | .00434 | .00246 | .21876 | .09391 | -.00010 | -.00321 | 81.999 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00043** | **.00119** | **.01013** | **10.810** | **.15427** | **33.218** | **.26335** | **.00800** |
| Stddev | .00027 | .00008 | .00035 | .00185 | .002 | .00062 | .206 | .00119 | .00023 |
| %RSD | 59.317 | 18.165 | 29.269 | 18.288 | .01828 | .40195 | .62106 | .45196 | 2.9189 |
| #1 | .00065 | .00037 | .00094 | .01143 | 10.812 | .15383 | 33.363 | .26419 | .00783 |
| #2 | .00027 | .00048 | .00144 | .00882 | 10.809 | .15470 | 33.072 | .26251 | .00816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **143.18** | **.00157** | **.16830** | **.00083** | **80.017** | **.00068** | **-.00469** | **12.017** | **-.00087** |
| Stddev | 1.89 | .00036 | .00257 | .00205 | .046 | .00030 | .00006 | .083 | .00059 |
| %RSD | 1.3223 | 22.713 | 1.5277 | 246.24 | .05702 | 43.899 | 1.2337 | .68905 | 67.201 |
| #1 | 141.85 | .00182 | .17012 | -.00062 | 80.050 | .00089 | -.00465 | 11.958 | -.00046 |
| #2 | 144.52 | .00132 | .16649 | .00228 | 79.985 | .00047 | -.00474 | 12.076 | -.00129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2868** | **.00091** | **.00036** | **-.00099** | **.00999** | **.00139** | **.00281** | **.00032** |
| Stddev | .0046 | .00177 | .00009 | .00007 | .00518 | .00044 | .00016 | .00073 |
| %RSD | .35482 | 194.87 | 24.905 | 6.9537 | 51.850 | 31.770 | 5.6633 | 225.80 |
| #1 | 1.2835 | -.00034 | .00042 | -.00095 | .00632 | .00170 | .00292 | -.00019 |
| #2 | 1.2900 | .00216 | .00029 | -.00104 | .01365 | .00108 | .00269 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6145.1** | **80516.** | **5897.0** |
| Stddev | 6.3 | 383. | 12.4 |
| %RSD | .10221 | .47526 | .21009 |
| #1 | 6149.6 | 80246. | 5905.8 |
| #2 | 6140.7 | 80787. | 5888.3 |

Sample Name: 280-41954-B-7-A Acquired: 5/15/2013 3:31:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.00413** | **.00015** | **.21127** | **.05167** | **-.00006** | **-.00357** | **114.39** | **-.00005** |
| Stddev | .00035 | .00023 | .00094 | .00049 | .00052 | .00005 | .00187 | .31 | .00009 |
| %RSD | 337.18 | 5.6234 | 630.65 | .23305 | .99845 | 84.605 | 52.439 | .26820 | 172.96 |
| #1 | .00015 | .00429 | -.00052 | .21162 | .05203 | -.00002 | -.00224 | 114.18 | -.00012 |
| #2 | -.00036 | .00396 | .00082 | .21092 | .05130 | -.00009 | -.00489 | 114.61 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00063** | **.00172** | **.02033** | **14.027** | **.14084** | **23.014** | **.41406** | **.00844** |
| Stddev | .00004 | .00006 | .00007 | .00108 | .023 | .00015 | .011 | .00030 | .00003 |
| %RSD | 6.0240 | 9.2377 | 4.2200 | 5.3210 | .16079 | .10510 | .04953 | .07298 | .31454 |
| #1 | .00075 | .00067 | .00166 | .01956 | 14.043 | .14074 | 23.006 | .41385 | .00846 |
| #2 | .00069 | .00059 | .00177 | .02109 | 14.011 | .14094 | 23.022 | .41428 | .00842 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **149.90** | **.00208** | **.47460** | **.00118** | **83.239** | **-.00092** | **-.00185** | **12.184** | **-.00069** |
| Stddev | .28 | .00016 | .00177 | .00249 | .311 | .00007 | .00303 | .001 | .00058 |
| %RSD | .18912 | 7.8234 | .37276 | 210.06 | .37316 | 7.3301 | 163.86 | .00892 | 83.901 |
| #1 | 149.70 | .00219 | .47585 | .00294 | 83.459 | -.00087 | -.00400 | 12.183 | -.00110 |
| #2 | 150.11 | .00196 | .47335 | -.00057 | 83.020 | -.00097 | .00029 | 12.185 | -.00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1492** | **.00063** | **.00017** | **-.00024** | **-.02029** | **.00255** | **.00464** | **.00094** |
| Stddev | .0006 | .00265 | .00030 | .00062 | .00507 | .00002 | .00003 | .00163 |
| %RSD | .05695 | 417.32 | 178.49 | 251.79 | 24.995 | .84558 | .75292 | 172.33 |
| #1 | 1.1488 | -.00124 | .00038 | -.00068 | -.02388 | .00253 | .00467 | -.00021 |
| #2 | 1.1497 | .00251 | -.00004 | .00019 | -.01671 | .00256 | .00462 | .00210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6134.2** | **80202.** | **5791.3** |
| Stddev | 32.3 | 260. | 5.4 |
| %RSD | .52733 | .32421 | .09298 |
| #1 | 6111.3 | 80019. | 5787.5 |
| #2 | 6157.0 | 80386. | 5795.1 |

Sample Name: 280-41954-B-8-A280 Acquired: 5/15/2013 3:34:19 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **.00207** | **.00200** | **.20566** | **.04937** | **.00002** | **-.00233** | **111.64** | **-.00011** |
| Stddev | .00006 | .00003 | .00023 | .00092 | .00044 | .00006 | .00033 | .01 | .00019 |
| %RSD | 6.5862 | 1.6498 | 11.330 | .44909 | .89684 | 338.59 | 14.177 | .01160 | 167.33 |
| #1 | .00090 | .00209 | .00184 | .20631 | .04906 | .00006 | -.00256 | 111.65 | -.00024 |
| #2 | .00099 | .00204 | .00216 | .20501 | .04969 | -.00002 | -.00210 | 111.64 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.00042** | **.00091** | **.00381** | **13.790** | **.13714** | **22.373** | **.32981** | **.00876** |
| Stddev | .00002 | .00000 | .00016 | .00034 | .012 | .00102 | .058 | .00087 | .00006 |
| %RSD | 3.0178 | 1.0784 | 17.833 | 8.9103 | .08804 | .74481 | .26034 | .26288 | .68963 |
| #1 | .00070 | .00041 | .00102 | .00357 | 13.781 | .13642 | 22.414 | .33042 | .00872 |
| #2 | .00067 | .00042 | .00079 | .00405 | 13.799 | .13786 | 22.331 | .32919 | .00880 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **146.75** | **.00195** | **.45415** | **.00146** | **81.436** | **-.00121** | **.00028** | **11.999** | **-.00032** |
| Stddev | .43 | .00004 | .00471 | .00002 | .119 | .00080 | .00254 | .011 | .00033 |
| %RSD | .29236 | 1.8626 | 1.0379 | 1.3698 | .14662 | 65.909 | 891.95 | .09003 | 105.80 |
| #1 | 147.05 | .00197 | .45748 | .00147 | 81.351 | -.00177 | -.00151 | 11.991 | -.00055 |
| #2 | 146.44 | .00192 | .45081 | .00144 | 81.520 | -.00065 | .00208 | 12.006 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1242** | **.00059** | **.00043** | **.00021** | **.00880** | **.00296** | **.00305** | **.00091** |
| Stddev | .0018 | .00255 | .00034 | .00095 | .02301 | .00029 | .00005 | .00080 |
| %RSD | .15943 | 435.73 | 79.373 | 457.45 | 261.40 | 9.8305 | 1.7684 | 86.961 |
| #1 | 1.1254 | .00239 | .00068 | .00088 | -.00747 | .00275 | .00301 | .00035 |
| #2 | 1.1229 | -.00122 | .00019 | -.00046 | .02508 | .00316 | .00309 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6173.9** | **80717.** | **5812.3** |
| Stddev | 2.3 | 61. | 4.2 |
| %RSD | .03762 | .07522 | .07184 |
| #1 | 6172.3 | 80674. | 5815.3 |
| #2 | 6175.5 | 80760. | 5809.4 |

Sample Name: 280-41954-B-9-A Acquired: 5/15/2013 3:36:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00455** | **.00040** | **.79840** | **.03408** | **-.00002** | **-.00202** | **63.658** | **-.00011** |
| Stddev | .00024 | .00002 | .00168 | .00504 | .00005 | .00006 | .00008 | .066 | .00011 |
| %RSD | 127.06 | .47009 | 421.05 | .63083 | .14319 | 423.68 | 4.1195 | .10353 | 98.024 |
| #1 | -.00036 | .00456 | .00159 | .80196 | .03404 | -.00006 | -.00208 | 63.705 | -.00019 |
| #2 | -.00002 | .00453 | -.00079 | .79483 | .03411 | .00003 | -.00196 | 63.611 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00114** | **.00061** | **.00218** | **.01326** | **14.297** | **.26966** | **21.358** | **.20373** | **.03984** |
| Stddev | .00033 | .00024 | .00020 | .00017 | .013 | .00113 | .055 | .00099 | .00010 |
| %RSD | 28.700 | 40.175 | 9.2411 | 1.2627 | .09320 | .41926 | .25831 | .48647 | .25222 |
| #1 | .00138 | .00044 | .00203 | .01337 | 14.287 | .27046 | 21.319 | .20302 | .03991 |
| #2 | .00091 | .00078 | .00232 | .01314 | 14.306 | .26886 | 21.397 | .20443 | .03977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **494.06** | **.00839** | **.20993** | **.00008** | **172.60** | **-.00121** | **-.00070** | **11.161** | **-.00064** |
| Stddev | 1.38 | .00017 | .00023 | .00130 | .52 | .00164 | .00438 | .053 | .00098 |
| %RSD | .27999 | 2.0327 | .11081 | 1624.6 | .30158 | 135.43 | 623.24 | .47697 | 153.19 |
| #1 | 495.04 | .00827 | .20976 | .00100 | 172.97 | -.00005 | -.00380 | 11.124 | .00005 |
| #2 | 493.08 | .00851 | .21009 | -.00084 | 172.23 | -.00237 | .00239 | 11.199 | -.00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0634** | **-.00115** | **-.00000** | **-.00067** | **.03885** | **.00506** | **.00406** | **.00018** |
| Stddev | .0025 | .00098 | .00052 | .00126 | .00945 | .00059 | .00016 | .00132 |
| %RSD | .23444 | 84.903 | 47630. | 187.07 | 24.316 | 11.624 | 3.8936 | 749.95 |
| #1 | 1.0652 | -.00046 | .00037 | .00022 | .04553 | .00548 | .00395 | .00111 |
| #2 | 1.0617 | -.00184 | -.00037 | -.00157 | .03217 | .00465 | .00417 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6091.2** | **79075.** | **5793.9** |
| Stddev | 17.2 | 43. | 28.6 |
| %RSD | .28164 | .05424 | .49317 |
| #1 | 6103.3 | 79044. | 5773.6 |
| #2 | 6079.1 | 79105. | 5814.1 |

Sample Name: 280-41954-B-10-A Acquired: 5/15/2013 3:39:14 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **.01758** | **.00631** | **.34033** | **.03268** | **.00003** | **.00161** | **27.843** | **-.00013** |
| Stddev | .00060 | .00035 | .00034 | .00049 | .00054 | .00007 | .00011 | .067 | .00009 |
| %RSD | 234.44 | 2.0166 | 5.3561 | .14522 | 1.6573 | 258.32 | 7.0755 | .23944 | 65.527 |
| #1 | -.00068 | .01733 | .00608 | .33998 | .03229 | -.00002 | .00169 | 27.796 | -.00007 |
| #2 | .00017 | .01783 | .00655 | .34068 | .03306 | .00008 | .00153 | 27.890 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00044** | **.00321** | **.04274** | **15.191** | **.14919** | **3.8262** | **.01608** | **.02067** |
| Stddev | .00010 | .00007 | .00044 | .00178 | .010 | .00239 | .0133 | .00013 | .00023 |
| %RSD | 20.893 | 15.672 | 13.563 | 4.1694 | .06338 | 1.6021 | .34719 | .83754 | 1.1298 |
| #1 | .00041 | .00049 | .00352 | .04400 | 15.185 | .15088 | 3.8168 | .01599 | .02050 |
| #2 | .00055 | .00039 | .00290 | .04148 | 15.198 | .14750 | 3.8356 | .01618 | .02083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **257.60** | **.00244** | **.29587** | **.00143** | **90.345** | **.00008** | **-.00224** | **9.1101** | **-.00089** |
| Stddev | .32 | .00011 | .00238 | .00036 | .003 | .00000 | .00092 | .0212 | .00018 |
| %RSD | .12599 | 4.5638 | .80306 | 24.945 | .00335 | .46055 | 40.830 | .23227 | 20.684 |
| #1 | 257.37 | .00252 | .29755 | .00118 | 90.342 | .00008 | -.00289 | 9.1251 | -.00102 |
| #2 | 257.83 | .00236 | .29419 | .00168 | 90.347 | .00008 | -.00159 | 9.0952 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61516** | **.00053** | **.00012** | **.00156** | **.01859** | **.00878** | **.00375** | **-.00046** |
| Stddev | .00016 | .00146 | .00033 | .00068 | .00437 | .00068 | .00051 | .00145 |
| %RSD | .02633 | 276.31 | 268.52 | 43.671 | 23.522 | 7.7612 | 13.564 | 317.33 |
| #1 | .61527 | -.00050 | -.00011 | .00108 | .02169 | .00830 | .00339 | -.00148 |
| #2 | .61504 | .00156 | .00036 | .00204 | .01550 | .00926 | .00411 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6193.0** | **80231.** | **5803.1** |
| Stddev | 3.4 | 194. | 16.3 |
| %RSD | .05543 | .24194 | .28059 |
| #1 | 6190.6 | 80369. | 5814.6 |
| #2 | 6195.4 | 80094. | 5791.6 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 3:41:42 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00797** | **50.691** | **-.00260** | **-.00392** | **.00102** | **-.00009** | **1.0265** | **.00914** | **-.00084** | **.00242** | **.00017** | **.00033** | **51.099** |
| Stddev | .00087 | .152 | .00181 | .00028 | .00014 | .00006 | .0012 | .00228 | .00000 | .00002 | .00008 | .00032 | .185 |
| %RSD | 10.977 | .30034 | 69.486 | 7.0690 | 13.305 | 66.293 | .11532 | 24.966 | .40888 | .97046 | 49.912 | 96.636 | .36261 |
| #1 | .00735 | 50.583 | -.00388 | -.00412 | .00112 | -.00005 | 1.0257 | .00753 | -.00084 | .00241 | .00023 | .00011 | 51.230 |
| #2 | .00859 | 50.799 | -.00132 | -.00373 | .00093 | -.00014 | 1.0273 | .01075 | -.00084 | .00244 | .00011 | .00056 | 50.968 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11577** | **.00580** | **-.00794** | **-.00073** | **-.00221** | **257.91** | **.00118** | **-.00039** | **.00054** | **5.3668** | **-.00062** | **.00345** | **.01935** |
| Stddev | .04105 | .00167 | .00245 | .00001 | .00024 | .89 | .00033 | .00392 | .00077 | .0131 | .00207 | .00053 | .01361 |
| %RSD | 35.456 | 28.812 | 30.816 | 1.5797 | 10.904 | .34654 | 28.359 | 999.10 | 142.40 | .24338 | 332.38 | 15.420 | 70.357 |
| #1 | .08674 | .00462 | -.00967 | -.00073 | -.00238 | 257.28 | .00141 | -.00316 | -.00000 | 5.3575 | -.00208 | .00307 | .00972 |
| #2 | .14479 | .00698 | -.00621 | -.00074 | -.00204 | 258.54 | .00094 | .00238 | .00108 | 5.3760 | .00084 | .00382 | .02897 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **.00051** | **5.2735** | **.00298** | **-.00208** | **10.302** | **-.00102** | **.00328** | **-.04715** |
| Stddev | .00004 | .00003 | .0051 | .00008 | .00012 | .010 | .00004 | .00052 | .00609 |
| %RSD | 3.8271 | 6.1911 | .09715 | 2.8378 | 5.5310 | .09790 | 3.5004 | 15.927 | 12.917 |
| #1 | .00107 | .00049 | 5.2699 | .00292 | -.00200 | 10.309 | -.00100 | .00364 | -.04284 |
| #2 | .00101 | .00054 | 5.2772 | .00304 | -.00216 | 10.295 | -.00105 | .00291 | -.05145 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6230.1** | **81789.** | **5834.2** |
| Stddev | 3.1 | 311. | 20.3 |
| %RSD | .04939 | .38058 | .34831 |
| #1 | 6227.9 | 81569. | 5848.5 |
| #2 | 6232.2 | 82009. | 5819.8 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 3:44:10 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54468** | **.49305** | **1.0302** | **.50113** | **.51723** | **.48206** | **.00234** | **5.1191** | **.52008** | **.52431** | **.50403** | **.51002** | **2.5131** | **51.559** |
| Stddev | .00041 | .00594 | .0034 | .00021 | .00396 | .00181 | .00133 | .0593 | .00070 | .00025 | .00033 | .00027 | .0042 | .270 |
| %RSD | .07558 | 1.2037 | .32525 | .04177 | .76599 | .37468 | 56.982 | 1.1582 | .13370 | .04808 | .06536 | .05289 | .16515 | .52365 |
| #1 | .54497 | .49724 | 1.0278 | .50128 | .51443 | .48078 | .00140 | 5.0772 | .52057 | .52414 | .50427 | .51021 | 2.5160 | 51.368 |
| #2 | .54439 | .48885 | 1.0326 | .50098 | .52004 | .48333 | .00328 | 5.1610 | .51958 | .52449 | .50380 | .50983 | 2.5101 | 51.750 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0327** | **21.304** | **.53221** | **.49681** | **5.4289** | **.51528** | **.99415** | **1.0401** | **.03005** | **1.0447** | **1.0113** | **5.0286** | **1.0011** | **.49043** |
| Stddev | .0093 | .021 | .00058 | .00141 | .0167 | .00246 | .00183 | .0040 | .00364 | .0038 | .0067 | .0079 | .0036 | .00204 |
| %RSD | .90330 | .09927 | .10836 | .28366 | .30701 | .47764 | .18383 | .38316 | 12.129 | .36447 | .66474 | .15625 | .35578 | .41538 |
| #1 | 1.0261 | 21.289 | .53180 | .49781 | 5.4171 | .51702 | .99544 | 1.0429 | .03263 | 1.0473 | 1.0160 | 5.0342 | 1.0036 | .48899 |
| #2 | 1.0393 | 21.319 | .53261 | .49581 | 5.4407 | .51354 | .99285 | 1.0373 | .02747 | 1.0420 | 1.0065 | 5.0231 | .99857 | .49187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00247** | **.52163** | **1.0050** | **.03764** | **.51215** | **.54250** | **.50378** |
| Stddev | .00508 | .00076 | .0027 | .03306 | .00007 | .00057 | .00058 |
| %RSD | 205.85 | .14562 | .26345 | 87.846 | .01300 | .10431 | .11465 |
| #1 | -.00112 | .52217 | 1.0069 | .01426 | .51211 | .54210 | .50337 |
| #2 | .00606 | .52109 | 1.0032 | .06102 | .51220 | .54290 | .50419 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6358.5** | **82315.** | **5904.8** |
| Stddev | 2.4 | 50. | 26.3 |
| %RSD | .03753 | .06132 | .44606 |
| #1 | 6360.2 | 82351. | 5923.5 |
| #2 | 6356.8 | 82279. | 5886.2 |

Sample Name: CCB Acquired: 5/15/2013 3:46:23 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **.00003** | **.00080** | F **-.00582** | W **.00087** | **.00002** | **-.00031** | **-.00381** | **.00006** | **.00030** | **-.00002** |
| Stddev | .00003 | .00056 | .00064 | .00061 | .00023 | .00002 | .00126 | .00758 | .00013 | .00005 | .00005 |
| %RSD | 12.507 | 1645.7 | 80.314 | 10.418 | 26.279 | 69.866 | 410.69 | 199.04 | 224.77 | 16.771 | 252.96 |
| #1 | -.00025 | .00043 | .00125 | -.00539 | .00071 | .00001 | .00058 | .00155 | -.00003 | .00027 | -.00005 |
| #2 | -.00030 | -.00036 | .00035 | -.00625 | .00104 | .00004 | -.00120 | -.00916 | .00015 | .00034 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00551** | **.04108** | W **.00443** | **-.00005** | **.00007** | **.00001** | F **.37463** | **-.00004** | **-.00850** | **-.00018** |
| Stddev | .00044 | .00060 | .00298 | .00225 | .00043 | .00000 | .00017 | .00370 | .00017 | .00094 | .00029 |
| %RSD | 593.20 | 10.880 | 7.2458 | 50.926 | 779.02 | 5.0873 | 1206.3 | .98767 | 463.65 | 11.021 | 162.79 |
| #1 | -.00023 | .00593 | .03898 | .00602 | -.00036 | .00007 | -.00010 | .37202 | -.00015 | -.00784 | .00003 |
| #2 | .00038 | .00508 | .04319 | .00283 | .00025 | .00007 | .00013 | .37725 | .00008 | -.00916 | -.00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02108** | **-.00155** | **.00141** | **.02545** | **-.00002** | **.00018** | **.00007** | **.00019** | **-.00079** | **.03427** | **.00034** |
| Stddev | .00294 | .00030 | .00162 | .02050 | .00034 | .00011 | .00068 | .00048 | .00066 | .00203 | .00023 |
| %RSD | 13.935 | 19.137 | 115.32 | 80.554 | 1606.6 | 63.213 | 1014.5 | 251.51 | 84.106 | 5.9169 | 67.131 |
| #1 | .02315 | -.00176 | .00255 | .01095 | -.00026 | .00010 | .00055 | .00053 | -.00125 | .03570 | .00018 |
| #2 | .01900 | -.00134 | .00026 | .03995 | .00022 | .00026 | -.00041 | -.00015 | -.00032 | .03283 | .00051 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00272** | W **.00440** |
| Stddev | .00022 | .00157 |
| %RSD | 7.9153 | 35.748 |
| #1 | .00257 | .00329 |
| #2 | .00288 | .00552 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6402.1** | **83399.** | **5894.0** |
| Stddev | .2 | 218. | 11.2 |
| %RSD | .00267 | .26154 | .18978 |
| #1 | 6402.0 | 83245. | 5886.1 |
| #2 | 6402.2 | 83553. | 5901.9 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 3:48:53 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01124** | **.09848** | **.01552** | **.09004** | **.01103** | **.00095** | **.10619** | **.20818** | **.00526** | **.01112** | **.01019** |
| Stddev | .00059 | .00036 | .00126 | .00047 | .00004 | .00003 | .00034 | .00049 | .00013 | .00026 | .00009 |
| %RSD | 5.2832 | .36767 | 8.0889 | .52397 | .40695 | 2.7589 | .32060 | .23675 | 2.4421 | 2.3156 | .87648 |
| #1 | .01166 | .09822 | .01463 | .09038 | .01106 | .00093 | .10595 | .20783 | .00535 | .01130 | .01013 |
| #2 | .01082 | .09874 | .01641 | .08971 | .01100 | .00097 | .10643 | .20853 | .00517 | .01093 | .01025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01495** | **.10492** | **3.1629** | F **.01519** | **.21557** | **.01081** | **.01957** | F **1.3425** | **.04151** | **2.8969** | **.00907** |
| Stddev | .00059 | .00186 | .0625 | .00166 | .00138 | .00002 | .00024 | .0151 | .00008 | .0076 | .00038 |
| %RSD | 3.9301 | 1.7756 | 1.9753 | 10.903 | .63855 | .15813 | 1.2470 | 1.1251 | .18337 | .26059 | 4.2011 |
| #1 | .01454 | .10624 | 3.2071 | .01637 | .21655 | .01080 | .01940 | 1.3532 | .04157 | 2.9022 | .00880 |
| #2 | .01537 | .10361 | 3.1187 | .01402 | .21460 | .01082 | .01974 | 1.3318 | .04146 | 2.8915 | .00934 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01548** | **.00936** | **.01468** | **.50505** | **.09983** | **.00981** | **.01560** | **.01048** | **.01430** | F **.09246** | **.00964** |
| Stddev | .00095 | .00023 | .00252 | .01221 | .00031 | .00005 | .00393 | .00038 | .00057 | .01341 | .00013 |
| %RSD | 6.1110 | 2.4764 | 17.138 | 2.4179 | .31406 | .49845 | 25.157 | 3.6356 | 4.0006 | 14.507 | 1.3512 |
| #1 | .01481 | .00919 | .01290 | .49641 | .10005 | .00978 | .01838 | .01021 | .01390 | .08298 | .00955 |
| #2 | .01615 | .00952 | .01646 | .51368 | .09961 | .00985 | .01283 | .01075 | .01471 | .10195 | .00974 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02545** | **.01714** |
| Stddev | .00005 | .00081 |
| %RSD | .18212 | 4.7132 |
| #1 | .02542 | .01771 |
| #2 | .02549 | .01657 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6428.9** | **83904.** | **5951.3** |
| Stddev | 22.5 | 7. | 25.0 |
| %RSD | .35064 | .00890 | .42002 |
| #1 | 6412.9 | 83909. | 5933.6 |
| #2 | 6444.8 | 83898. | 5968.9 |

Sample Name: 280-41950-Q-1-A Acquired: 5/15/2013 3:51:19 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **10.649** | **.05601** | **2.1393** | **2.6129** | **.00072** | **-.00516** | **134.23** | **.00178** |
| Stddev | .00011 | .086 | .00294 | .0020 | .0011 | .00003 | .00078 | .53 | .00013 |
| %RSD | 10.283 | .81096 | 5.2451 | .09296 | .04381 | 4.6518 | 15.206 | .39165 | 7.5188 |
| #1 | .00096 | 10.710 | .05809 | 2.1379 | 2.6137 | .00074 | -.00572 | 134.60 | .00187 |
| #2 | .00111 | 10.588 | .05394 | 2.1407 | 2.6121 | .00069 | -.00461 | 133.86 | .00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03070** | **.17362** | **1.3081** | **53.161** | **93.458** | **.07136** | **142.09** | **1.1379** | **.00546** |
| Stddev | .00007 | .00067 | .0008 | .206 | .034 | .00190 | .18 | .0001 | .00016 |
| %RSD | .22809 | .38417 | .06463 | .38771 | .03645 | 2.6627 | .12344 | .01176 | 2.9166 |
| #1 | .03065 | .17315 | 1.3087 | 53.307 | 93.482 | .07270 | 142.21 | 1.1378 | .00535 |
| #2 | .03075 | .17409 | 1.3075 | 53.015 | 93.434 | .07001 | 141.97 | 1.1380 | .00557 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **245.80** | **.23662** | **2.4519** | **.06658** | **17.776** | **.00355** | **-.00033** | **37.934** | **.00961** |
| Stddev | 2.34 | .00069 | .0057 | .00041 | .044 | .00070 | .00241 | .121 | .00061 |
| %RSD | .95259 | .29312 | .23227 | .61943 | .24520 | 19.633 | 723.26 | .31918 | 6.3712 |
| #1 | 247.46 | .23613 | 2.4479 | .06629 | 17.745 | .00306 | -.00204 | 38.020 | .00917 |
| #2 | 244.15 | .23711 | 2.4559 | .06687 | 17.807 | .00404 | .00137 | 37.849 | .01004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.79833** | **.00806** | **.30518** | **-.00150** | **.00586** | **.03953** | **.67919** | **.00508** |
| Stddev | .00387 | .00049 | .00038 | .00011 | .00085 | .00022 | .00109 | .00111 |
| %RSD | .48459 | 6.1029 | .12389 | 7.6677 | 14.444 | .56909 | .16106 | 21.864 |
| #1 | .80106 | .00841 | .30545 | -.00142 | .00527 | .03969 | .67996 | .00429 |
| #2 | .79559 | .00771 | .30492 | -.00158 | .00646 | .03937 | .67841 | .00587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6224.0** | **81579.** | **6061.7** |
| Stddev | 14.2 | 40. | 41.4 |
| %RSD | .22808 | .04892 | .68285 |
| #1 | 6234.0 | 81551. | 6032.5 |
| #2 | 6214.0 | 81607. | 6091.0 |

Sample Name: 280-41950-Q-2-A Acquired: 5/15/2013 3:53:41 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.12978** | **.08232** | **6.4374** | **.80763** | **-.00002** | **-.00318** | **160.11** | **.00040** |
| Stddev | .00041 | .00024 | .00060 | .0058 | .00288 | .00001 | .00281 | .36 | .00005 |
| %RSD | 363.11 | .18497 | .73307 | .08942 | .35691 | 47.659 | 88.378 | .22706 | 13.852 |
| #1 | .00018 | .12995 | .08275 | 6.4415 | .80559 | -.00001 | -.00119 | 159.86 | .00044 |
| #2 | -.00040 | .12961 | .08189 | 6.4334 | .80967 | -.00003 | -.00517 | 160.37 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01219** | **.02469** | **.00192** | **20.729** | W **202.33** | **.24998** | **104.23** | **.66286** | **.00137** |
| Stddev | .00039 | .00010 | .00026 | .036 | .56 | .00070 | .07 | .00002 | .00007 |
| %RSD | 3.1690 | .41410 | 13.655 | .17264 | .27744 | .27809 | .06769 | .00257 | 5.1321 |
| #1 | .01246 | .02476 | .00211 | 20.703 | 201.93 | .24949 | 104.18 | .66287 | .00132 |
| #2 | .01191 | .02462 | .00174 | 20.754 | 202.72 | .25047 | 104.28 | .66284 | .00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **963.64** | **.05903** | **13.322** | **.00197** | **23.538** | **.00600** | **-.00150** | **20.190** | **.00352** |
| Stddev | .83 | .00029 | .023 | .00049 | .013 | .00087 | .00020 | .016 | .00018 |
| %RSD | .08577 | .49223 | .17445 | 25.025 | .05399 | 14.516 | 13.538 | .07710 | 5.0672 |
| #1 | 963.06 | .05882 | 13.338 | .00162 | 23.547 | .00662 | -.00135 | 20.201 | .00364 |
| #2 | 964.23 | .05923 | 13.305 | .00232 | 23.529 | .00538 | -.00164 | 20.179 | .00339 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2400** | **.00473** | **.03719** | **.00015** | **-.01414** | **.01267** | **.02395** | **.00604** |
| Stddev | .0035 | .00101 | .00020 | .00027 | .02240 | .00038 | .00006 | .00037 |
| %RSD | .28222 | 21.292 | .52698 | 172.66 | 158.42 | 3.0274 | .26760 | 6.1684 |
| #1 | 1.2376 | .00401 | .03705 | .00034 | -.02998 | .01240 | .02400 | .00630 |
| #2 | 1.2425 | .00544 | .03732 | -.00003 | .00170 | .01294 | .02391 | .00578 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5935.8** | **76169.** | **5796.1** |
| Stddev | 5.2 | 157. | 4.7 |
| %RSD | .08706 | .20602 | .08040 |
| #1 | 5932.2 | 76058. | 5799.4 |
| #2 | 5939.5 | 76280. | 5792.8 |

Sample Name: 280-41950-A-3-A Acquired: 5/15/2013 3:56:41 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.03542** | **.04590** | **6.0683** | **.92432** | **-.00014** | **-.00185** | **185.59** | **.00022** |
| Stddev | .00032 | .00050 | .00172 | .0077 | .00558 | .00011 | .00062 | .56 | .00007 |
| %RSD | 657.63 | 1.4202 | 3.7489 | .12730 | .60374 | 79.885 | 33.369 | .30077 | 32.378 |
| #1 | .00027 | .03578 | .04712 | 6.0738 | .92037 | -.00006 | -.00141 | 185.19 | .00017 |
| #2 | -.00018 | .03507 | .04469 | 6.0629 | .92827 | -.00021 | -.00228 | 185.98 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01099** | **.01950** | **.00248** | **12.135** | W **151.29** | **.22840** | **108.56** | **1.2752** | **.00152** |
| Stddev | .00031 | .00005 | .00020 | .026 | .88 | .00198 | .09 | .0014 | .00003 |
| %RSD | 2.8048 | .26341 | 8.0348 | .21623 | .57904 | .86836 | .08620 | .11032 | 2.2136 |
| #1 | .01077 | .01946 | .00262 | 12.116 | 150.68 | .22700 | 108.63 | 1.2762 | .00150 |
| #2 | .01121 | .01953 | .00234 | 12.153 | 151.91 | .22980 | 108.50 | 1.2743 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **805.89** | **.04931** | **8.1278** | **.00212** | **32.429** | **.00513** | **-.00375** | **19.681** | **.00239** |
| Stddev | .48 | .00033 | .0435 | .00028 | .072 | .00065 | .00101 | .090 | .00023 |
| %RSD | .05964 | .66248 | .53585 | 13.265 | .22056 | 12.744 | 26.863 | .45979 | 9.5240 |
| #1 | 806.23 | .04908 | 8.0970 | .00232 | 32.479 | .00467 | -.00446 | 19.617 | .00223 |
| #2 | 805.55 | .04954 | 8.1586 | .00192 | 32.378 | .00559 | -.00304 | 19.745 | .00255 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1351** | **.00125** | **.02641** | **.00069** | **-.01223** | **.01084** | **.01901** | **.00484** |
| Stddev | .0038 | .00121 | .00028 | .00013 | .02746 | .00038 | .00006 | .00070 |
| %RSD | .33232 | 96.981 | 1.0659 | 19.141 | 224.57 | 3.4795 | .30280 | 14.438 |
| #1 | 1.1325 | .00039 | .02661 | .00078 | .00719 | .01111 | .01905 | .00435 |
| #2 | 1.1378 | .00210 | .02621 | .00059 | -.03165 | .01057 | .01897 | .00534 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5885.0** | **77364.** | **5803.6** |
| Stddev | 2.6 | 3. | 14.1 |
| %RSD | .04492 | .00376 | .24262 |
| #1 | 5886.9 | 77366. | 5813.6 |
| #2 | 5883.2 | 77362. | 5793.7 |

Sample Name: 280-41951-P-1-A Acquired: 5/15/2013 3:59:43 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.01417** | **.00861** | **.46166** | **.20531** | **-.00002** | **-.00670** | **146.34** | **.00022** |
| Stddev | .00005 | .00032 | .00108 | .00563 | .00008 | .00005 | .00276 | .25 | .00003 |
| %RSD | 7.9496 | 2.2918 | 12.510 | 1.2192 | .04009 | 207.63 | 41.232 | .16885 | 13.092 |
| #1 | .00066 | .01440 | .00785 | .46564 | .20525 | -.00005 | -.00475 | 146.16 | .00020 |
| #2 | .00059 | .01394 | .00938 | .45768 | .20536 | .00001 | -.00866 | 146.51 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00115** | **.00371** | **.00207** | **27.167** | **13.526** | **.06862** | **44.275** | **.90606** | **.00008** |
| Stddev | .00026 | .00021 | .00003 | .031 | .006 | .00149 | .148 | .00280 | .00027 |
| %RSD | 22.222 | 5.6271 | 1.3556 | .11437 | .04479 | 2.1692 | .33458 | .30931 | 360.53 |
| #1 | .00133 | .00385 | .00209 | 27.145 | 13.521 | .06757 | 44.171 | .90408 | -.00012 |
| #2 | .00097 | .00356 | .00205 | 27.189 | 13.530 | .06968 | 44.380 | .90804 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **66.302** | **.00722** | **1.1965** | **.00285** | **40.731** | **-.00159** | **-.00423** | **19.412** | **-.00053** |
| Stddev | .563 | .00015 | .0017 | .00116 | .132 | .00026 | .00316 | .113 | .00051 |
| %RSD | .84975 | 2.1174 | .13995 | 40.678 | .32475 | 16.104 | 74.863 | .58198 | 95.622 |
| #1 | 65.903 | .00733 | 1.1977 | .00367 | 40.824 | -.00177 | -.00199 | 19.332 | -.00017 |
| #2 | 66.700 | .00711 | 1.1953 | .00203 | 40.637 | -.00141 | -.00646 | 19.492 | -.00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.63536** | **.00442** | **.00072** | **-.00051** | **-.00184** | **.00067** | **.00480** | **.00032** |
| Stddev | .00006 | .00025 | .00020 | .00149 | .00324 | .00043 | .00024 | .00032 |
| %RSD | .00936 | 5.6140 | 27.972 | 288.87 | 175.64 | 63.579 | 4.9218 | 97.329 |
| #1 | .63531 | .00460 | .00058 | .00054 | .00045 | .00037 | .00497 | .00055 |
| #2 | .63540 | .00425 | .00086 | -.00156 | -.00414 | .00097 | .00464 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6082.6** | **79041.** | **5743.3** |
| Stddev | 6.9 | 192. | 6.2 |
| %RSD | .11348 | .24309 | .10729 |
| #1 | 6077.8 | 79177. | 5747.6 |
| #2 | 6087.5 | 78906. | 5738.9 |

Sample Name: 280-41951-P-2-A  Acquired: 5/15/2013 4:02:05  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.01295** | **.00789** | **2.3000** | **.51612** | **-.00003** | **-.00320** | **160.38** | **-.00006** |
| Stddev | .00021 | .00126 | .00137 | .0097 | .00855 | .00003 | .00129 | 2.41 | .00014 |
| %RSD | 64.546 | 9.7233 | 17.421 | .42135 | 1.6557 | 99.429 | 40.389 | 1.5030 | 221.44 |
| #1 | .00048 | .01384 | .00886 | 2.3068 | .51007 | -.00001 | -.00229 | 158.67 | .00003 |
| #2 | .00018 | .01206 | .00692 | 2.2931 | .52216 | -.00005 | -.00411 | 162.08 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00407** | **.00225** | **.00150** | **23.464** | **43.820** | **.09049** | **54.703** | **1.6271** | **.00177** |
| Stddev | .00014 | .00015 | .00024 | .327 | .687 | .00176 | .048 | .0007 | .00011 |
| %RSD | 3.3755 | 6.8307 | 16.072 | 1.3925 | 1.5673 | 1.9446 | .08766 | .04077 | 6.4794 |
| #1 | .00398 | .00236 | .00167 | 23.233 | 43.334 | .08924 | 54.737 | 1.6276 | .00169 |
| #2 | .00417 | .00214 | .00133 | 23.695 | 44.305 | .09173 | 54.669 | 1.6267 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **344.27** | **.03326** | **2.4339** | **.00243** | **24.209** | **-.00029** | **-.00057** | **18.976** | **-.00009** |
| Stddev | 4.90 | .00076 | .0068 | .00007 | .145 | .00261 | .00206 | .307 | .00049 |
| %RSD | 1.4241 | 2.2999 | .27935 | 2.7512 | .59863 | 913.60 | 361.29 | 1.6203 | 569.79 |
| #1 | 340.80 | .03380 | 2.4387 | .00248 | 24.311 | -.00213 | .00089 | 18.758 | .00026 |
| #2 | 347.73 | .03272 | 2.4291 | .00239 | 24.106 | .00156 | -.00203 | 19.193 | -.00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97013** | **.00433** | **.00091** | **-.00027** | **.02911** | **.00154** | **.00581** | **.00173** |
| Stddev | .01212 | .00188 | .00021 | .00135 | .01525 | .00018 | .00005 | .00084 |
| %RSD | 1.2498 | 43.421 | 23.223 | 497.65 | 52.393 | 11.674 | .90316 | 48.689 |
| #1 | .96155 | .00565 | .00076 | -.00122 | .01832 | .00167 | .00578 | .00232 |
| #2 | .97870 | .00300 | .00106 | .00068 | .03989 | .00141 | .00585 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5964.7** | **77817.** | **5723.8** |
| Stddev | 21.8 | 125. | 53.8 |
| %RSD | .36506 | .16127 | .93908 |
| #1 | 5949.3 | 77906. | 5761.8 |
| #2 | 5980.1 | 77728. | 5685.8 |

Sample Name: 280-41951-P-3-A Acquired: 5/15/2013 4:04:32 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173380 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.01223** | **-.00684** | **.07091** | **.03080** | **-.00033** | **-.00621** | W **801.60** | **.00007** |
| Stddev | .00038 | .00110 | .00339 | .00105 | .00011 | .00001 | .00160 | 4.79 | .00011 |
| %RSD | 430.26 | 8.9670 | 49.499 | 1.4772 | .35191 | 1.9709 | 25.700 | .59742 | 171.89 |
| #1 | .00036 | .01300 | -.00924 | .07166 | .03087 | -.00033 | -.00734 | 804.98 | -.00001 |
| #2 | -.00018 | .01145 | -.00445 | .07017 | .03072 | -.00034 | -.00508 | 798.21 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **.00095** | **.00137** | **60.749** | **12.186** | **.10480** | **279.49** | **1.5757** | **-.00051** |
| Stddev | .00005 | .00009 | .00010 | .055 | .068 | .00115 | 4.52 | .0116 | .00044 |
| %RSD | 10.093 | 9.5366 | 7.4784 | .08971 | .55771 | 1.0970 | 1.6173 | .73478 | 85.917 |
| #1 | .00046 | .00101 | .00144 | 60.788 | 12.234 | .10399 | 276.29 | 1.5839 | -.00082 |
| #2 | .00053 | .00089 | .00130 | 60.711 | 12.138 | .10561 | 282.69 | 1.5675 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **141.91** | **.00128** | **.77273** | **.00057** | **912.77** | **.00086** | **-.00190** | **17.969** | **-.00110** |
| Stddev | .18 | .00002 | .01188 | .00126 | 5.63 | .00207 | .00124 | .015 | .00040 |
| %RSD | .12705 | 1.7349 | 1.5370 | 218.94 | .61666 | 239.82 | 65.254 | .08440 | 36.484 |
| #1 | 141.78 | .00126 | .78113 | -.00032 | 916.75 | .00233 | -.00277 | 17.980 | -.00138 |
| #2 | 142.03 | .00129 | .76433 | .00146 | 908.79 | -.00060 | -.00102 | 17.958 | -.00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0568** | **.00806** | **.00317** | **-.00177** | **-.04261** | **.00206** | **.00423** | **.00094** |
| Stddev | .0086 | .00185 | .00030 | .00033 | .00146 | .00055 | .00009 | .00103 |
| %RSD | .41828 | 22.948 | 9.4914 | 18.587 | 3.4180 | 26.542 | 2.2428 | 109.87 |
| #1 | 2.0629 | .00937 | .00296 | -.00200 | -.04158 | .00245 | .00429 | .00167 |
| #2 | 2.0508 | .00675 | .00338 | -.00154 | -.04364 | .00167 | .00416 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5604.2** | **74620.** | **5529.1** |
| Stddev | 15.0 | 81. | 22.7 |
| %RSD | .26845 | .10838 | .41124 |
| #1 | 5593.5 | 74562. | 5513.0 |
| #2 | 5614.8 | 74677. | 5545.2 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 4:07:39 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00758** | **50.612** | **-.00305** | **.00143** | **.00078** | **-.00002** | **1.0131** | **.02332** | **-.00097** | **.00244** | **.00004** | **-.00015** | **50.947** |
| Stddev | .00042 | .003 | .00128 | .00071 | .00034 | .00001 | .0063 | .03027 | .00015 | .00010 | .00012 | .00004 | .296 |
| %RSD | 5.4966 | .00535 | 41.895 | 49.550 | 44.310 | 37.863 | .62643 | 129.83 | 15.260 | 4.2661 | 343.19 | 29.652 | .58070 |
| #1 | .00729 | 50.614 | -.00215 | .00193 | .00053 | -.00001 | 1.0176 | .00191 | -.00086 | .00237 | -.00005 | -.00012 | 50.738 |
| #2 | .00788 | 50.610 | -.00395 | .00093 | .00102 | -.00003 | 1.0086 | .04472 | -.00107 | .00251 | .00012 | -.00018 | 51.156 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16725** | **.00560** | **-.00320** | **-.00056** | **-.00173** | **257.08** | **.00099** | **.02199** | **.00088** | **5.3775** | **-.00076** | **.00314** | **.02254** |
| Stddev | .02614 | .00094 | .00595 | .00000 | .00008 | .12 | .00026 | .00121 | .00018 | .0432 | .00015 | .00230 | .00220 |
| %RSD | 15.626 | 16.864 | 186.25 | .24641 | 4.8925 | .04650 | 26.218 | 5.5069 | 20.431 | .80290 | 19.108 | 73.351 | 9.7504 |
| #1 | .18573 | .00493 | .00101 | -.00056 | -.00167 | 257.16 | .00118 | .02284 | .00075 | 5.4081 | -.00066 | .00477 | .02409 |
| #2 | .14877 | .00627 | -.00741 | -.00056 | -.00179 | 256.99 | .00081 | .02113 | .00101 | 5.3470 | -.00087 | .00151 | .02098 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **.00033** | **5.2226** | **.00384** | **-.00238** | **10.072** | **-.00022** | **.00327** | **-.04836** |
| Stddev | .00011 | .00004 | .0043 | .00008 | .00010 | .022 | .00010 | .00059 | .00070 |
| %RSD | 65.835 | 13.078 | .08254 | 2.0001 | 4.2990 | .21504 | 43.899 | 17.911 | 1.4432 |
| #1 | -.00009 | .00030 | 5.2195 | .00379 | -.00246 | 10.088 | -.00029 | .00369 | -.04885 |
| #2 | -.00024 | .00037 | 5.2256 | .00390 | -.00231 | 10.057 | -.00015 | .00286 | -.04786 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6139.2** | **78726.** | **5657.1** |
| Stddev | 37.8 | 73. | 19.5 |
| %RSD | .61520 | .09253 | .34555 |
| #1 | 6165.9 | 78675. | 5643.2 |
| #2 | 6112.5 | 78778. | 5670.9 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 4:10:04 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54572** | **.49272** | **1.0348** | **.50491** | **.51326** | **.48694** | **.00188** | **5.1712** | **.51949** | **.52325** | **.50028** | **.51009** |
| Stddev | .00077 | .00058 | .0015 | .00037 | .00411 | .00301 | .00142 | .0101 | .00010 | .00009 | .00027 | .00010 |
| %RSD | .14103 | .11774 | .14932 | .07365 | .80121 | .61757 | 75.428 | .19541 | .02020 | .01633 | .05353 | .01963 |
| #1 | .54517 | .49313 | 1.0359 | .50518 | .51617 | .48906 | .00088 | 5.1640 | .51956 | .52331 | .50046 | .51002 |
| #2 | .54626 | .49231 | 1.0337 | .50465 | .51035 | .48481 | .00288 | 5.1783 | .51941 | .52319 | .50009 | .51016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5138** | **51.590** | **1.0382** | **21.543** | **.53659** | **.49114** | **5.4378** | **.51255** | **1.0085** | **1.0352** | **.09450** | **1.0392** |
| Stddev | .0175 | .308 | .0057 | .006 | .00055 | .00135 | .0631 | .00209 | .0047 | .0050 | .00427 | .0002 |
| %RSD | .69480 | .59744 | .54959 | .03012 | .10209 | .27481 | 1.1601 | .40680 | .46686 | .48130 | 4.5195 | .01556 |
| #1 | 2.5261 | 51.808 | 1.0422 | 21.547 | .53620 | .49019 | 5.4824 | .51107 | 1.0052 | 1.0317 | .09752 | 1.0391 |
| #2 | 2.5014 | 51.373 | 1.0342 | 21.538 | .53698 | .49210 | 5.3932 | .51402 | 1.0118 | 1.0387 | .09148 | 1.0393 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0110** | **5.0540** | **.99135** | **.48928** | **.00106** | **.52449** | **.99005** | **.06817** | **.51460** | F **.55252** | **.51076** |
| Stddev | .0009 | .0015 | .00160 | .00404 | .00155 | .00021 | .00287 | .00443 | .00076 | .00246 | .00153 |
| %RSD | .09074 | .02922 | .16110 | .82554 | 145.59 | .04077 | .28997 | 6.5057 | .14808 | .44591 | .30049 |
| #1 | 1.0104 | 5.0551 | .99022 | .49213 | .00216 | .52434 | .98802 | .06503 | .51514 | .55426 | .51184 |
| #2 | 1.0116 | 5.0530 | .99248 | .48642 | -.00003 | .52464 | .99208 | .07131 | .51406 | .55077 | .50967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6256.0** | **79634.** | **5723.4** |
| Stddev | 10.0 | 92. | 57.3 |
| %RSD | .15925 | .11575 | 1.0004 |
| #1 | 6248.9 | 79568. | 5682.9 |
| #2 | 6263.0 | 79699. | 5763.9 |

Sample Name: CCB Acquired: 5/15/2013 4:12:18 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **-.00016** | **-.00062** | W **-.00238** | W **.00077** | **.00005** | **-.00237** | **.02355** | **.00000** | **.00015** | **-.00017** |
| Stddev | .00013 | .00043 | .00137 | .00024 | .00020 | .00004 | .00022 | .00614 | .00006 | .00016 | .00003 |
| %RSD | 75.829 | 266.78 | 219.36 | 10.282 | 25.946 | 91.103 | 9.2067 | 26.073 | 1200.2 | 107.24 | 18.793 |
| #1 | .00008 | .00014 | -.00159 | -.00221 | .00091 | .00008 | -.00252 | .02790 | -.00004 | .00026 | -.00015 |
| #2 | .00027 | -.00046 | .00034 | -.00255 | .00063 | .00002 | -.00221 | .01921 | .00005 | .00004 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | .00058 | | | | | | |
| Low Limit | | | | -.00156 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.00495** | **.09021** | W **.00371** | **.00720** | **.00012** | **.00002** | F **.45062** | **-.00020** | **.00615** | **.00035** |
| Stddev | .00016 | .00077 | .00848 | .00042 | .00088 | .00006 | .00013 | .01177 | .00024 | .00336 | .00094 |
| %RSD | 47.179 | 15.597 | 9.4012 | 11.340 | 12.221 | 52.692 | 594.85 | 2.6128 | 120.40 | 54.672 | 267.55 |
| #1 | -.00045 | .00550 | .09621 | .00341 | .00658 | .00016 | -.00007 | .45895 | -.00037 | .00853 | .00102 |
| #2 | -.00022 | .00441 | .08422 | .00400 | .00783 | .00007 | .00011 | .44230 | -.00003 | .00377 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04264** | **.00065** | **-.00256** | **.02945** | **-.00079** | **.00013** | **-.00033** | **-.00021** | **-.00120** | **.00769** | **.00044** |
| Stddev | .00402 | .00029 | .00334 | .00429 | .00069 | .00003 | .00099 | .00012 | .00034 | .01621 | .00050 |
| %RSD | 9.4236 | 45.239 | 130.32 | 14.573 | 86.634 | 23.913 | 302.31 | 58.011 | 28.297 | 210.74 | 113.36 |
| #1 | .04548 | .00085 | -.00020 | .02641 | -.00128 | .00011 | .00037 | -.00030 | -.00096 | .01916 | .00079 |
| #2 | .03979 | .00044 | -.00492 | .03248 | -.00031 | .00015 | -.00103 | -.00012 | -.00144 | -.00377 | .00009 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00209** | **-.00033** |
| Stddev | .00017 | .00057 |
| %RSD | 7.9948 | 171.14 |
| #1 | .00221 | .00007 |
| #2 | .00197 | -.00074 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6260.3** | **81149.** | **5718.4** |
| Stddev | 5.6 | 472. | 36.1 |
| %RSD | .08973 | .58164 | .63056 |
| #1 | 6264.3 | 80815. | 5692.9 |
| #2 | 6256.3 | 81483. | 5743.9 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 4:14:47 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01112** | **.09966** | **.01432** | **.09501** | **.01164** | **.00096** | **.10684** | **.20740** | **.00511** | **.01140** | **.01052** |
| Stddev | .00028 | .00009 | .00295 | .00008 | .00003 | .00008 | .00255 | .00140 | .00000 | .00017 | .00003 |
| %RSD | 2.5201 | .09097 | 20.615 | .08535 | .29247 | 8.4652 | 2.3848 | .67702 | .07950 | 1.4998 | .32367 |
| #1 | .01092 | .09972 | .01223 | .09496 | .01166 | .00090 | .10504 | .20641 | .00511 | .01152 | .01050 |
| #2 | .01132 | .09959 | .01641 | .09507 | .01161 | .00102 | .10864 | .20839 | .00511 | .01128 | .01055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01649** | F **.17765** | **3.2074** | F **.01427** | **.22337** | **.01163** | **.01956** | F **1.4113** | **.04214** | **2.9499** | **.00913** |
| Stddev | .00037 | .00046 | .0404 | .00056 | .00306 | .00009 | .00010 | .0032 | .00018 | .0004 | .00097 |
| %RSD | 2.2490 | .25994 | 1.2598 | 3.9253 | 1.3700 | .78702 | .52188 | .22659 | .43388 | .01399 | 10.651 |
| #1 | .01676 | .17798 | 3.2360 | .01466 | .22121 | .01170 | .01949 | 1.4136 | .04227 | 2.9502 | .00845 |
| #2 | .01623 | .17732 | 3.1788 | .01387 | .22553 | .01157 | .01963 | 1.4091 | .04201 | 2.9496 | .00982 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | | | | 1.0000 | | | |
| Range | | 30.000% | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03007** | **.01128** | **.01231** | **.52159** | **.10094** | **.01017** | **.01753** | **.01018** | **.01304** | F **.09089** | **.01011** |
| Stddev | .00411 | .00071 | .00349 | .03235 | .00004 | .00011 | .00029 | .00037 | .00031 | .04006 | .00016 |
| %RSD | 13.672 | 6.2643 | 28.330 | 6.2019 | .04311 | 1.0709 | 1.6627 | 3.6511 | 2.3543 | 44.080 | 1.6106 |
| #1 | .03298 | .01078 | .01478 | .49872 | .10097 | .01025 | .01733 | .01044 | .01326 | .11922 | .00999 |
| #2 | .02717 | .01177 | .00985 | .54447 | .10091 | .01009 | .01774 | .00991 | .01283 | .06256 | .01022 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02562** | **.01640** |
| Stddev | .00015 | .00058 |
| %RSD | .58730 | 3.5329 |
| #1 | .02573 | .01681 |
| #2 | .02551 | .01599 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6378.7** | **81511.** | **5761.2** |
| Stddev | .4 | 111. | 54.1 |
| %RSD | .00689 | .13608 | .93824 |
| #1 | 6378.4 | 81433. | 5723.0 |
| #2 | 6379.0 | 81589. | 5799.4 |

Sample Name: MB 280-173141/1-A Acquired: 5/15/2013 4:17:11 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **.00220** | **.00094** | **-.00439** | **.00059** | **-.00004** | **.00199** | **.00458** | **-.00004** |
| Stddev | .00025 | .00005 | .00225 | .00012 | .00043 | .00000 | .00175 | .00234 | .00011 |
| %RSD | 40.394 | 2.3755 | 239.59 | 2.6536 | 71.880 | 2.9429 | 88.110 | 51.102 | 248.71 |
| #1 | .00045 | .00217 | -.00065 | -.00430 | .00090 | -.00005 | .00322 | .00293 | .00003 |
| #2 | .00081 | .00224 | .00253 | -.00447 | .00029 | -.00004 | .00075 | .00624 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00016** | **-.00002** | **.01505** | **-.01157** | **.00499** | **.00173** | **.00016** | **.00002** |
| Stddev | .00009 | .00008 | .00009 | .00248 | .02371 | .00204 | .00169 | .00008 | .00007 |
| %RSD | 18.898 | 49.692 | 395.65 | 16.483 | 204.93 | 40.942 | 97.573 | 46.916 | 363.83 |
| #1 | .00051 | .00021 | .00004 | .01329 | -.02834 | .00355 | .00293 | .00011 | -.00003 |
| #2 | .00039 | .00010 | -.00008 | .01680 | .00520 | .00644 | .00054 | .00022 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33970** | **.00012** | F **.14226** | **.00047** | **.03196** | **-.00099** | **-.00125** | **.04629** | **.00040** |
| Stddev | .00594 | .00031 | .00350 | .00085 | .00028 | .00283 | .00011 | .00199 | .00003 |
| %RSD | 1.7492 | 262.81 | 2.4623 | 180.09 | .88624 | 285.39 | 8.9686 | 4.2963 | 7.3341 |
| #1 | .34390 | .00033 | .14473 | -.00013 | .03216 | .00101 | -.00133 | .04770 | .00038 |
| #2 | .33550 | -.00010 | .13978 | .00107 | .03176 | -.00300 | -.00117 | .04489 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **-.00123** | **-.00001** | **-.00020** | **.02672** | **.00047** | **.00287** | **.00035** |
| Stddev | .00004 | .00197 | .00033 | .00053 | .02809 | .00012 | .00017 | .00197 |
| %RSD | 99.234 | 160.62 | 3260.2 | 259.31 | 105.12 | 24.611 | 5.9634 | 562.73 |
| #1 | .00007 | .00017 | -.00024 | .00017 | .00686 | .00039 | .00275 | -.00104 |
| #2 | .00001 | -.00262 | .00022 | -.00058 | .04659 | .00055 | .00300 | .00174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6394.6** | **82509.** | **5806.9** |
| Stddev | 2.4 | 202. | .1 |
| %RSD | .03831 | .24459 | .00145 |
| #1 | 6392.9 | 82366. | 5807.0 |
| #2 | 6396.3 | 82651. | 5806.9 |

Sample Name: LCS 280-173141/2-A Acquired: 5/15/2013 4:19:40 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05718** | **1.8317** | **1.0230** | **1.0416** | **2.0597** | **.04871** | **2.0628** | **50.229** | **.10545** |
| Stddev | .00042 | .0010 | .0040 | .0009 | .0109 | .00031 | .0004 | .236 | .00009 |
| %RSD | .73663 | .05206 | .38909 | .08394 | .52757 | .63721 | .01991 | .46894 | .08284 |
| #1 | .05748 | 1.8324 | 1.0202 | 1.0422 | 2.0674 | .04893 | 2.0631 | 50.395 | .10551 |
| #2 | .05688 | 1.8310 | 1.0258 | 1.0410 | 2.0520 | .04849 | 2.0626 | 50.062 | .10538 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50847** | **.19792** | **.24939** | **.98770** | **51.587** | **1.0297** | **52.840** | **.52205** | **.99383** |
| Stddev | .00049 | .00040 | .00101 | .01183 | .282 | .0046 | .015 | .00035 | .00066 |
| %RSD | .09677 | .20131 | .40510 | 1.1981 | .54726 | .44557 | .02883 | .06640 | .06683 |
| #1 | .50881 | .19764 | .25010 | .99607 | 51.787 | 1.0329 | 52.851 | .52181 | .99430 |
| #2 | .50812 | .19820 | .24868 | .97934 | 51.388 | 1.0264 | 52.829 | .52230 | .99336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.890** | **.49596** | **10.232** | **.50618** | **.01606** | **.53182** | **2.0245** | **10.311** | **1.9976** |
| Stddev | .355 | .00013 | .002 | .00099 | .00189 | .00255 | .0014 | .012 | .0018 |
| %RSD | .68454 | .02672 | .01561 | .19546 | 11.785 | .47991 | .07109 | .11253 | .08988 |
| #1 | 51.639 | .49587 | 10.233 | .50688 | .01472 | .53362 | 2.0256 | 10.319 | 1.9988 |
| #2 | 52.141 | .49606 | 10.231 | .50548 | .01739 | .53001 | 2.0235 | 10.303 | 1.9963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97150** | **1.0522** | **1.0558** | **1.9396** | **2.0831** | **.51061** | **.53702** | **.50208** |
| Stddev | .00839 | .0026 | .0014 | .0054 | .0707 | .00052 | .00265 | .00060 |
| %RSD | .86370 | .25032 | .13062 | .27654 | 3.3915 | .10116 | .49266 | .11943 |
| #1 | .97743 | 1.0503 | 1.0548 | 1.9434 | 2.1330 | .51024 | .53889 | .50250 |
| #2 | .96557 | 1.0540 | 1.0568 | 1.9358 | 2.0331 | .51097 | .53515 | .50166 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6156.0** | **79077.** | **5747.5** |
| Stddev | 2.0 | 137. | 14.1 |
| %RSD | .03300 | .17365 | .24610 |
| #1 | 6157.4 | 78980. | 5737.5 |
| #2 | 6154.5 | 79174. | 5757.5 |

Sample Name: 280-41882-Q-1-A  Acquired: 5/15/2013 4:21:53  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.00140** | **.00072** | **1.2046** | **.01960** | **.00001** | **-.00001** | **70.338** | **.00006** |
| Stddev | .00024 | .00056 | .00094 | .0078 | .00053 | .00000 | .00199 | .089 | .00002 |
| %RSD | 100.20 | 39.890 | 130.19 | .64626 | 2.7240 | 55.917 | 34577. | .12608 | 35.557 |
| #1 | -.00007 | .00180 | .00006 | 1.2101 | .01922 | .00000 | .00140 | 70.276 | .00008 |
| #2 | -.00040 | .00101 | .00139 | 1.1991 | .01997 | .00001 | -.00141 | 70.401 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **.00025** | **-.00032** | **.29734** | **13.472** | **.08661** | **142.95** | **.22254** | **.01171** |
| Stddev | .00028 | .00005 | .00021 | .00228 | .054 | .00067 | .04 | .00049 | .00014 |
| %RSD | 31.217 | 18.940 | 65.878 | .76723 | .40381 | .76893 | .02668 | .21876 | 1.1691 |
| #1 | .00069 | .00022 | -.00017 | .29573 | 13.433 | .08709 | 142.92 | .22220 | .01181 |
| #2 | .00108 | .00029 | -.00047 | .29896 | 13.510 | .08614 | 142.98 | .22289 | .01161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **506.99** | **.00216** | **.21215** | **.00203** | **465.30** | **-.00055** | W **-.00618** | **13.144** | **-.00074** |
| Stddev | .04 | .00005 | .00548 | .00114 | .57 | .00045 | .00022 | .047 | .00060 |
| %RSD | .00795 | 2.3638 | 2.5820 | 56.062 | .12205 | 82.024 | 3.5411 | .35449 | 81.440 |
| #1 | 506.96 | .00219 | .21603 | .00123 | 465.70 | -.00023 | -.00603 | 13.111 | -.00116 |
| #2 | 507.02 | .00212 | .20828 | .00284 | 464.90 | -.00087 | -.00633 | 13.177 | -.00031 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | 5.0000 | | |
| Low Limit | 10.000 | | | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32187** | **-.00146** | **-.00021** | **.00084** | **.03249** | **.00087** | **.00470** | **-.00151** |
| Stddev | .00055 | .00139 | .00042 | .00069 | .03649 | .00016 | .00012 | .00015 |
| %RSD | .17146 | 95.459 | 202.00 | 82.625 | 112.31 | 18.359 | 2.5447 | 10.031 |
| #1 | .32148 | -.00245 | -.00051 | .00132 | .05830 | .00076 | .00479 | -.00140 |
| #2 | .32226 | -.00047 | .00009 | .00035 | .00669 | .00099 | .00462 | -.00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5928.3** | **76592.** | **5661.4** |
| Stddev | 5.8 | 148. | 1.5 |
| %RSD | .09766 | .19385 | .02600 |
| #1 | 5924.2 | 76697. | 5660.4 |
| #2 | 5932.3 | 76487. | 5662.5 |

Sample Name: sd 280-41882-Q-1-A@5 Acquired: 5/15/2013 4:24:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **.00027** | **-.00053** | **.24499** | **.00455** | **-.00005** | **-.00118** | **15.152** | **.00007** |
| Stddev | .00027 | .00015 | .00353 | .00087 | .00014 | .00003 | .00092 | .011 | .00001 |
| %RSD | 83.732 | 55.340 | 663.39 | .35671 | 3.0265 | 50.744 | 78.431 | .07045 | 15.226 |
| #1 | -.00013 | .00038 | -.00303 | .24561 | .00465 | -.00003 | -.00052 | 15.159 | .00008 |
| #2 | -.00052 | .00017 | .00197 | .24437 | .00445 | -.00007 | -.00183 | 15.144 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00016** | **-.00016** | **.10683** | **2.8229** | **.02338** | **30.393** | **.04844** | **.00231** |
| Stddev | .00011 | .00023 | .00002 | .00350 | .0157 | .00009 | .010 | .00002 | .00012 |
| %RSD | 43.306 | 146.15 | 13.727 | 3.2778 | .55681 | .38925 | .03266 | .04076 | 5.0314 |
| #1 | .00017 | .00032 | -.00018 | .10931 | 2.8118 | .02344 | 30.400 | .04846 | .00223 |
| #2 | .00032 | -.00001 | -.00015 | .10435 | 2.8340 | .02331 | 30.386 | .04843 | .00239 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **107.50** | **.00029** | **.04049** | **.00061** | **93.995** | **-.00144** | **-.00401** | **2.7215** | **-.00030** |
| Stddev | .04 | .00015 | .00226 | .00119 | .015 | .00016 | .00069 | .0003 | .00036 |
| %RSD | .03384 | 52.638 | 5.5787 | 195.34 | .01573 | 11.260 | 17.196 | .01190 | 119.83 |
| #1 | 107.52 | .00039 | .04209 | -.00023 | 94.006 | -.00156 | -.00353 | 2.7217 | -.00055 |
| #2 | 107.47 | .00018 | .03890 | .00145 | 93.985 | -.00133 | -.00450 | 2.7212 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06954** | **-.00065** | **-.00020** | **-.00004** | **.04161** | **.00029** | **.00436** | **.00063** |
| Stddev | .00018 | .00024 | .00040 | .00020 | .01799 | .00018 | .00027 | .00012 |
| %RSD | .25890 | 36.614 | 195.63 | 447.46 | 43.228 | 61.529 | 6.1313 | 19.772 |
| #1 | .06941 | -.00048 | -.00049 | -.00019 | .02889 | .00016 | .00417 | .00054 |
| #2 | .06967 | -.00082 | .00008 | .00010 | .05433 | .00041 | .00454 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6177.1** | **79719.** | **5721.8** |
| Stddev | 16.9 | 107. | 9.0 |
| %RSD | .27422 | .13360 | .15693 |
| #1 | 6165.1 | 79644. | 5715.5 |
| #2 | 6189.1 | 79795. | 5728.2 |

Sample Name: 280-41882-Q-1-B MS  Acquired: 5/15/2013 4:27:19  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05655** | **1.6426** | **.99291** | **2.1821** | **1.9297** | **.04406** | **1.9805** | **117.38** | **.10090** |
| Stddev | .00028 | .0029 | .00148 | .0003 | .0087 | .00040 | .0031 | .61 | .00018 |
| %RSD | .49221 | .17917 | .14946 | .01565 | .44969 | .89745 | .15557 | .51749 | .17572 |
| #1 | .05636 | 1.6405 | .99186 | 2.1824 | 1.9358 | .04434 | 1.9783 | 117.81 | .10078 |
| #2 | .05675 | 1.6447 | .99396 | 2.1819 | 1.9235 | .04378 | 1.9827 | 116.95 | .10103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46862** | **.17959** | **.23289** | **1.1929** | **63.688** | **1.0545** | **193.00** | **.70224** | **.93441** |
| Stddev | .00036 | .00011 | .00040 | .0094 | .320 | .0028 | 1.76 | .00010 | .00005 |
| %RSD | .07782 | .06285 | .17300 | .78734 | .50319 | .26765 | .90956 | .01486 | .00579 |
| #1 | .46836 | .17967 | .23261 | 1.1995 | 63.915 | 1.0565 | 191.76 | .70217 | .93438 |
| #2 | .46888 | .17951 | .23318 | 1.1862 | 63.462 | 1.0525 | 194.24 | .70231 | .93445 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **561.15** | **.45324** | **10.044** | **.46368** | **471.44** | **.50942** | **1.9506** | **23.128** | **1.8416** |
| Stddev | 3.97 | .00008 | .002 | .00101 | .25 | .00307 | .0037 | .044 | .0015 |
| %RSD | .70823 | .01666 | .01834 | .21794 | .05408 | .60312 | .19159 | .19082 | .08152 |
| #1 | 563.96 | .45319 | 10.043 | .46439 | 471.62 | .50724 | 1.9533 | 23.159 | 1.8426 |
| #2 | 558.34 | .45330 | 10.045 | .46297 | 471.25 | .51159 | 1.9480 | 23.097 | 1.8405 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2188** | **.97067** | **.97567** | **1.7273** | **1.9150** | **.47365** | **.49459** | **.46351** |
| Stddev | .0087 | .00426 | .00101 | .0003 | .0118 | .00038 | .00088 | .00584 |
| %RSD | .71229 | .43864 | .10340 | .01676 | .61877 | .08053 | .17783 | 1.2593 |
| #1 | 1.2249 | .96766 | .97496 | 1.7275 | 1.9234 | .47338 | .49521 | .46764 |
| #2 | 1.2127 | .97368 | .97638 | 1.7271 | 1.9067 | .47392 | .49397 | .45938 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5813.4** | **75423.** | **5525.0** |
| Stddev | 12.1 | 47. | 23.5 |
| %RSD | .20876 | .06214 | .42536 |
| #1 | 5822.0 | 75390. | 5508.4 |
| #2 | 5804.8 | 75456. | 5541.6 |

Sample Name: 280-41882-Q-1-C MSD  Acquired: 5/15/2013 4:30:16  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05513** | **1.6022** | **.96872** | **2.1205** | **1.8715** | **.04306** | **1.9527** | **112.97** | **.09869** |
| Stddev | .00010 | .0028 | .00021 | .0010 | .0154 | .00011 | .0009 | .81 | .00022 |
| %RSD | .17754 | .17371 | .02147 | .04932 | .82049 | .25536 | .04483 | .71648 | .22505 |
| #1 | .05506 | 1.6042 | .96886 | 2.1212 | 1.8606 | .04299 | 1.9521 | 112.40 | .09853 |
| #2 | .05520 | 1.6003 | .96857 | 2.1198 | 1.8823 | .04314 | 1.9533 | 113.54 | .09884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45587** | **.17416** | **.22596** | **1.1377** | **62.287** | **1.0293** | **184.44** | **.68157** | **.90636** |
| Stddev | .00053 | .00013 | .00168 | .0055 | .566 | .0069 | 1.94 | .00160 | .00103 |
| %RSD | .11606 | .07655 | .74284 | .48712 | .90858 | .66940 | 1.0513 | .23523 | .11343 |
| #1 | .45624 | .17426 | .22715 | 1.1338 | 61.887 | 1.0244 | 183.06 | .68271 | .90708 |
| #2 | .45549 | .17407 | .22478 | 1.1417 | 62.687 | 1.0342 | 185.81 | .68044 | .90563 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **543.42** | **.44060** | **9.8100** | **.45664** | **457.75** | **.49333** | **1.9097** | **22.413** | **1.7941** |
| Stddev | 3.08 | .00051 | .0058 | .00332 | .08 | .00074 | .0050 | .024 | .0042 |
| %RSD | .56659 | .11578 | .05958 | .72790 | .01652 | .15015 | .26199 | .10581 | .23513 |
| #1 | 541.24 | .44096 | 9.8141 | .45899 | 457.81 | .49386 | 1.9061 | 22.429 | 1.7971 |
| #2 | 545.59 | .44024 | 9.8059 | .45429 | 457.70 | .49281 | 1.9132 | 22.396 | 1.7911 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1781** | **.93826** | **.94879** | **1.7158** | **1.8508** | **.46445** | **.48484** | **.44868** |
| Stddev | .0058 | .00074 | .00300 | .0014 | .0147 | .00138 | .00053 | .00258 |
| %RSD | .48981 | .07926 | .31575 | .08231 | .79689 | .29710 | .10910 | .57392 |
| #1 | 1.1741 | .93878 | .95090 | 1.7148 | 1.8613 | .46348 | .48522 | .44686 |
| #2 | 1.1822 | .93773 | .94667 | 1.7168 | 1.8404 | .46543 | .48447 | .45050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5790.9** | **75362.** | **5519.6** |
| Stddev | 11.6 | 89. | 21.9 |
| %RSD | .20028 | .11875 | .39612 |
| #1 | 5782.7 | 75425. | 5535.0 |
| #2 | 5799.1 | 75299. | 5504.1 |

Sample Name: 280-41883-D-2-B Acquired: 5/15/2013 4:33:13 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00281** | **-.00101** | **.15854** | **.11867** | **-.00009** | **-.00104** | **81.762** | **.00002** |
| Stddev | .00016 | .00042 | .00063 | .00010 | .00034 | .00002 | .00140 | .237 | .00010 |
| %RSD | 137.40 | 15.119 | 61.893 | .06493 | .28902 | 23.674 | 135.53 | .28996 | 456.80 |
| #1 | .00024 | .00251 | -.00057 | .15861 | .11892 | -.00010 | -.00004 | 81.929 | .00009 |
| #2 | .00000 | .00311 | -.00146 | .15846 | .11843 | -.00007 | -.00203 | 81.594 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00102** | **.00119** | **.01809** | **5.0269** | **.00705** | **23.766** | **.00107** | **.00445** |
| Stddev | .00023 | .00007 | .00026 | .00098 | .0020 | .00021 | .041 | .00004 | .00023 |
| %RSD | 188.78 | 6.4098 | 21.709 | 5.4146 | .04064 | 3.0269 | .17305 | 4.0670 | 5.2686 |
| #1 | -.00004 | .00106 | .00101 | .01879 | 5.0283 | .00720 | 23.795 | .00104 | .00428 |
| #2 | .00028 | .00097 | .00137 | .01740 | 5.0254 | .00690 | 23.737 | .00110 | .00461 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **36.695** | **.00340** | **.17053** | **.00290** | **16.067** | **-.00051** | **.00012** | **11.216** | **-.00067** |
| Stddev | .071 | .00015 | .00128 | .00176 | .005 | .00137 | .00009 | .046 | .00038 |
| %RSD | .19315 | 4.2697 | .75288 | 60.709 | .03008 | 268.73 | 74.260 | .41382 | 57.111 |
| #1 | 36.645 | .00329 | .16962 | .00414 | 16.063 | .00046 | .00006 | 11.248 | -.00094 |
| #2 | 36.745 | .00350 | .17144 | .00165 | 16.070 | -.00147 | .00018 | 11.183 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.63400** | **-.00196** | **-.00004** | **.00023** | **.03350** | **.00337** | **.00595** | **.00337** |
| Stddev | .00239 | .00223 | .00023 | .00052 | .02179 | .00024 | .00043 | .00397 |
| %RSD | .37626 | 113.87 | 535.63 | 228.61 | 65.040 | 7.0121 | 7.2960 | 117.79 |
| #1 | .63569 | -.00354 | .00012 | -.00014 | .04891 | .00321 | .00626 | .00618 |
| #2 | .63232 | -.00038 | -.00021 | .00059 | .01810 | .00354 | .00564 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6047.4** | **78734.** | **5672.4** |
| Stddev | 8.1 | 39. | 12.5 |
| %RSD | .13322 | .04956 | .22048 |
| #1 | 6053.1 | 78706. | 5663.5 |
| #2 | 6041.7 | 78761. | 5681.2 |

Sample Name: 280-41883-D-3-B Acquired: 5/15/2013 4:35:37 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **.00160** | **.00463** | **.11161** | **.07238** | **-.00005** | **-.00218** | **44.728** | **.00013** |
| Stddev | .00057 | .00043 | .00244 | .00093 | .00029 | .00008 | .00003 | .084 | .00003 |
| %RSD | 75.316 | 26.662 | 52.714 | .83088 | .40696 | 166.11 | 1.2153 | .18744 | 22.256 |
| #1 | .00115 | .00130 | .00636 | .11096 | .07259 | .00001 | -.00216 | 44.787 | .00011 |
| #2 | .00035 | .00190 | .00290 | .11227 | .07217 | -.00011 | -.00220 | 44.668 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **.00065** | **-.00007** | **1.0718** | **3.3960** | **.00540** | **13.361** | **3.0141** | **.00549** |
| Stddev | .00000 | .00001 | .00061 | .0006 | .0132 | .00070 | .036 | .0089 | .00002 |
| %RSD | .58602 | 1.7849 | 884.88 | .05910 | .38827 | 12.994 | .27019 | .29703 | .35737 |
| #1 | .00077 | .00066 | .00036 | 1.0723 | 3.4053 | .00589 | 13.335 | 3.0078 | .00548 |
| #2 | .00076 | .00064 | -.00050 | 1.0714 | 3.3867 | .00490 | 13.386 | 3.0204 | .00550 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.370** | **.00172** | **.19087** | **.00080** | **10.010** | **-.00295** | **-.00023** | **15.416** | **-.00007** |
| Stddev | .011 | .00030 | .00018 | .00077 | .030 | .00029 | .00038 | .029 | .00063 |
| %RSD | .04596 | 17.553 | .09467 | 96.225 | .30198 | 9.6692 | 166.59 | .18838 | 948.68 |
| #1 | 23.362 | .00193 | .19100 | .00134 | 9.9888 | -.00275 | -.00049 | 15.436 | -.00051 |
| #2 | 23.378 | .00150 | .19074 | .00026 | 10.032 | -.00315 | .00004 | 15.395 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36392** | **-.00020** | **.00005** | **-.00190** | **.01197** | **-.00069** | **.00313** | **-.00001** |
| Stddev | .00199 | .00108 | .00012 | .00118 | .00992 | .00026 | .00026 | .00063 |
| %RSD | .54661 | 540.79 | 233.12 | 62.139 | 82.832 | 38.064 | 8.2699 | 7414.4 |
| #1 | .36533 | .00057 | .00014 | -.00107 | .01899 | -.00087 | .00331 | .00044 |
| #2 | .36251 | -.00097 | -.00003 | -.00274 | .00496 | -.00050 | .00294 | -.00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6090.0** | **79060.** | **5642.6** |
| Stddev | .4 | 231. | 19.7 |
| %RSD | .00583 | .29207 | .34858 |
| #1 | 6090.2 | 79223. | 5628.7 |
| #2 | 6089.7 | 78896. | 5656.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 4:38:00 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00650** | **50.754** | **-.00047** | **-.00263** | **.00099** | **.00004** | **1.0058** | **.00607** | **-.00075** | **.00257** | **-.00015** | **-.00090** | **51.091** |
| Stddev | .00007 | .237 | .00212 | .00031 | .00015 | .00001 | .0037 | .00056 | .00003 | .00029 | .00000 | .00012 | .267 |
| %RSD | 1.0746 | .46708 | 448.75 | 11.686 | 14.902 | 19.990 | .37208 | 9.2207 | 3.8348 | 11.301 | 1.2754 | 13.051 | .52331 |
| #1 | .00655 | 50.922 | -.00197 | -.00241 | .00088 | .00004 | 1.0032 | .00646 | -.00073 | .00278 | -.00015 | -.00098 | 51.280 |
| #2 | .00645 | 50.587 | .00103 | -.00284 | .00109 | .00003 | 1.0085 | .00567 | -.00077 | .00237 | -.00015 | -.00082 | 50.902 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05753** | **.00588** | **-.00845** | **-.00044** | **-.00182** | **257.11** | **.00127** | **-.00074** | **.00249** | **5.2495** | **-.00234** | **.00289** | **.00821** |
| Stddev | .00616 | .00033 | .00283 | .00008 | .00006 | .67 | .00009 | .00111 | .00107 | .0161 | .00281 | .00271 | .00408 |
| %RSD | 10.709 | 5.6182 | 33.488 | 18.734 | 3.3709 | .26094 | 7.2208 | 150.07 | 42.956 | .30744 | 120.03 | 93.894 | 49.638 |
| #1 | .05317 | .00564 | -.00645 | -.00038 | -.00186 | 257.59 | .00121 | .00005 | .00173 | 5.2381 | -.00035 | .00480 | .00533 |
| #2 | .06188 | .00611 | -.01045 | -.00049 | -.00178 | 256.64 | .00134 | -.00153 | .00324 | 5.2609 | -.00433 | .00097 | .01110 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00025** | **5.2759** | **.00331** | **-.00211** | **10.139** | **-.00023** | **.00359** | **-.05348** |
| Stddev | .00059 | .00003 | .0004 | .00001 | .00078 | .032 | .00023 | .00012 | .00083 |
| %RSD | 2216.5 | 10.931 | .00717 | .39114 | 36.990 | .31843 | 101.77 | 3.4228 | 1.5587 |
| #1 | .00044 | .00023 | 5.2762 | .00332 | -.00266 | 10.116 | -.00006 | .00351 | -.05289 |
| #2 | -.00039 | .00027 | 5.2757 | .00330 | -.00156 | 10.162 | -.00039 | .00368 | -.05407 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6000.8** | **77224.** | **5544.5** |
| Stddev | 1.9 | 38. | 34.9 |
| %RSD | .03245 | .04969 | .62857 |
| #1 | 6002.2 | 77197. | 5519.9 |
| #2 | 5999.4 | 77251. | 5569.2 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 4:40:23 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54377** | **.48265** | **1.0220** | **.49497** | **.51540** | **.48133** | **.00341** | **5.1486** | **.51786** | **.52255** | **.49801** | **.50203** |
| Stddev | .00043 | .00095 | .0042 | .00140 | .00199 | .00089 | .00132 | .0066 | .00000 | .00055 | .00097 | .00099 |
| %RSD | .07915 | .19713 | .40934 | .28256 | .38553 | .18408 | 38.538 | .12846 | .00072 | .10489 | .19412 | .19718 |
| #1 | .54407 | .48333 | 1.0191 | .49398 | .51680 | .48196 | .00248 | 5.1439 | .51786 | .52216 | .49870 | .50273 |
| #2 | .54346 | .48198 | 1.0250 | .49596 | .51399 | .48070 | .00435 | 5.1533 | .51786 | .52294 | .49733 | .50133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4856** | **51.776** | **1.0374** | **21.336** | **.53331** | **.48585** | **5.3445** | **.50978** | **.97575** | **1.0347** | **.03326** | **1.0328** |
| Stddev | .0008 | .188 | .0028 | .008 | .00035 | .00112 | .0274 | .00178 | .00618 | .0062 | .00018 | .0022 |
| %RSD | .03106 | .36350 | .26885 | .03520 | .06627 | .23025 | .51310 | .34962 | .63374 | .59904 | .53914 | .21371 |
| #1 | 2.4851 | 51.909 | 1.0393 | 21.341 | .53306 | .48665 | 5.3639 | .51104 | .98013 | 1.0391 | .03338 | 1.0344 |
| #2 | 2.4862 | 51.643 | 1.0354 | 21.330 | .53356 | .48506 | 5.3251 | .50852 | .97138 | 1.0304 | .03313 | 1.0312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99193** | **5.0199** | **.98529** | **.48613** | **-.00009** | **.52061** | **.98441** | **.04873** | **.51029** | F **.55194** | **.50567** |
| Stddev | .00794 | .0080 | .00694 | .00179 | .00167 | .00067 | .00691 | .01950 | .00132 | .00173 | .00216 |
| %RSD | .80062 | .15893 | .70421 | .36808 | 1831.7 | .12920 | .70187 | 40.006 | .25886 | .31326 | .42803 |
| #1 | .99755 | 5.0142 | .99019 | .48739 | -.00127 | .52108 | .98929 | .06252 | .50936 | .55316 | .50720 |
| #2 | .98632 | 5.0255 | .98038 | .48486 | .00109 | .52013 | .97952 | .03495 | .51123 | .55071 | .50414 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6050.3** | **77696.** | **5511.4** |
| Stddev | 5.3 | 68. | 20.4 |
| %RSD | .08796 | .08771 | .37066 |
| #1 | 6046.6 | 77744. | 5497.0 |
| #2 | 6054.1 | 77647. | 5525.8 |

Sample Name: CCB Acquired: 5/15/2013 4:42:37 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00017** | **-.00044** | F **-.00436** | W **.00092** | **.00003** | **.00001** | **-.00579** | **-.00007** | **.00031** | **-.00009** |
| Stddev | .00052 | .00013 | .00455 | .00004 | .00007 | .00005 | .00031 | .00329 | .00003 | .00004 | .00014 |
| %RSD | 138.94 | 76.069 | 1030.8 | .92334 | 7.1393 | 143.01 | 6133.1 | 56.711 | 40.982 | 14.499 | 145.36 |
| #1 | .00001 | .00027 | -.00366 | -.00439 | .00087 | .00007 | .00023 | -.00347 | -.00009 | .00028 | .00000 |
| #2 | .00075 | .00008 | .00278 | -.00433 | .00097 | -.00000 | -.00022 | -.00812 | -.00005 | .00034 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00076** | **.00234** | **.01961** | W **.00272** | **.00065** | **.00004** | **.00005** | F **.36487** | **.00007** | **-.00655** | **.00122** |
| Stddev | .00002 | .00093 | .07602 | .00139 | .00058 | .00003 | .00026 | .00589 | .00011 | .00103 | .00222 |
| %RSD | 3.1586 | 39.887 | 387.59 | 50.915 | 89.158 | 78.726 | 491.88 | 1.6140 | 146.73 | 15.665 | 181.94 |
| #1 | -.00074 | .00168 | -.03414 | .00174 | .00107 | .00002 | -.00013 | .36070 | -.00000 | -.00728 | -.00035 |
| #2 | -.00077 | .00300 | .07337 | .00370 | .00024 | .00007 | .00024 | .36903 | .00015 | -.00583 | .00279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02535** | **-.00146** | **-.00351** | **-.00225** | **-.00009** | **.00003** | **.00148** | **.00006** | **-.00075** | **.04181** | **.00025** |
| Stddev | .00256 | .00043 | .00130 | .01795 | .00006 | .00001 | .00020 | .00017 | .00065 | .01908 | .00011 |
| %RSD | 10.095 | 29.158 | 37.020 | 798.82 | 67.065 | 45.631 | 13.272 | 306.98 | 86.119 | 45.646 | 45.886 |
| #1 | .02716 | -.00116 | -.00443 | .01044 | -.00005 | .00002 | .00134 | -.00006 | -.00029 | .02831 | .00033 |
| #2 | .02354 | -.00176 | -.00259 | -.01494 | -.00014 | .00004 | .00162 | .00018 | -.00121 | .05530 | .00017 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00253** | **.00149** |
| Stddev | .00031 | .00118 |
| %RSD | 12.351 | 79.171 |
| #1 | .00231 | .00065 |
| #2 | .00275 | .00232 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6084.2** | **78449.** | **5511.0** |
| Stddev | 9.0 | 192. | .5 |
| %RSD | .14747 | .24477 | .00938 |
| #1 | 6090.5 | 78585. | 5510.6 |
| #2 | 6077.9 | 78313. | 5511.4 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 4:45:06 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01106** | **.09496** | **.01319** | **.08834** | **.01095** | **.00090** | **.10267** | **.19531** | **.00527** | **.01090** | **.00984** |
| Stddev | .00049 | .00048 | .00019 | .00038 | .00015 | .00008 | .00072 | .00175 | .00007 | .00008 | .00006 |
| %RSD | 4.3896 | .50303 | 1.4545 | .42846 | 1.3564 | 9.3458 | .70346 | .89415 | 1.4149 | .68985 | .57056 |
| #1 | .01072 | .09462 | .01332 | .08808 | .01085 | .00096 | .10318 | .19655 | .00522 | .01095 | .00980 |
| #2 | .01140 | .09529 | .01305 | .08861 | .01106 | .00084 | .10216 | .19408 | .00532 | .01085 | .00988 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01458** | **.10544** | **3.0656** | F **.01462** | **.21494** | **.01066** | **.01889** | F **1.3255** | **.04048** | **2.7954** | **.01028** |
| Stddev | .00033 | .00208 | .0499 | .00407 | .00050 | .00002 | .00020 | .0287 | .00017 | .0107 | .00091 |
| %RSD | 2.2831 | 1.9756 | 1.6268 | 27.817 | .23057 | .17441 | 1.0837 | 2.1626 | .41496 | .38374 | 8.8893 |
| #1 | .01482 | .10396 | 3.0303 | .01750 | .21459 | .01068 | .01875 | 1.3458 | .04060 | 2.7878 | .00963 |
| #2 | .01435 | .10691 | 3.1009 | .01175 | .21529 | .01065 | .01904 | 1.3053 | .04036 | 2.8030 | .01092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02027** | **.00800** | F **.01038** | **.49363** | **.09658** | **.00964** | **.01598** | **.01010** | **.01233** | W **.07649** | **.00972** |
| Stddev | .00226 | .00328 | .00317 | .00937 | .00020 | .00003 | .00052 | .00059 | .00093 | .00936 | .00054 |
| %RSD | 11.142 | 40.939 | 30.573 | 1.8987 | .20532 | .30105 | 3.2691 | 5.8393 | 7.5810 | 12.242 | 5.5431 |
| #1 | .02186 | .00569 | .00813 | .48700 | .09644 | .00966 | .01561 | .01052 | .01299 | .06987 | .00934 |
| #2 | .01867 | .01032 | .01262 | .50025 | .09672 | .00962 | .01635 | .00969 | .01167 | .08311 | .01010 |
| Check ? | None | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | -30.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02399** | **.01478** |
| Stddev | .00006 | .00293 |
| %RSD | .26720 | 19.845 |
| #1 | .02394 | .01270 |
| #2 | .02403 | .01685 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6209.3** | **79740.** | **5595.7** |
| Stddev | 11.8 | 374. | 24.9 |
| %RSD | .19021 | .46951 | .44489 |
| #1 | 6201.0 | 79475. | 5578.1 |
| #2 | 6217.7 | 80004. | 5613.3 |

Sample Name: 280-41887-O-1-A Acquired: 5/15/2013 4:47:31 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.01012** | **-.00056** | **.13205** | **.16990** | **-.00002** | **-.00271** | **168.19** | **-.00007** |
| Stddev | .00052 | .00009 | .00192 | .00038 | .00046 | .00004 | .00319 | .59 | .00018 |
| %RSD | 338.29 | .92450 | 339.72 | .28565 | .27226 | 274.01 | 117.71 | .35080 | 259.02 |
| #1 | -.00021 | .01005 | -.00192 | .13231 | .17023 | .00002 | -.00045 | 168.61 | -.00019 |
| #2 | .00052 | .01019 | .00079 | .13178 | .16957 | -.00005 | -.00497 | 167.77 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00022** | **.00090** | **30.076** | **6.5572** | **.04039** | **36.481** | **1.0658** | **.00025** |
| Stddev | .00018 | .00002 | .00013 | .095 | .0264 | .00067 | .221 | .0050 | .00011 |
| %RSD | 49.360 | 11.297 | 14.779 | .31735 | .40276 | 1.6645 | .60684 | .46727 | 45.311 |
| #1 | .00050 | .00020 | .00100 | 30.143 | 6.5758 | .03992 | 36.325 | 1.0623 | .00033 |
| #2 | .00024 | .00023 | .00081 | 30.008 | 6.5385 | .04087 | 36.638 | 1.0693 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **43.104** | **.00594** | **1.5605** | **.00116** | **25.431** | **-.00124** | **-.00355** | **18.671** | **-.00102** |
| Stddev | .391 | .00009 | .0055 | .00010 | .013 | .00091 | .00168 | .067 | .00078 |
| %RSD | .90718 | 1.5047 | .35096 | 8.8201 | .05277 | 73.218 | 47.486 | .35712 | 76.321 |
| #1 | 42.828 | .00600 | 1.5567 | .00124 | 25.440 | -.00060 | -.00235 | 18.718 | -.00157 |
| #2 | 43.381 | .00588 | 1.5644 | .00109 | 25.421 | -.00188 | -.00474 | 18.624 | -.00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57375** | **.00602** | **.00116** | **-.00123** | **.00735** | **.00077** | **.00453** | **-.00030** |
| Stddev | .00239 | .00034 | .00004 | .00044 | .00323 | .00033 | .00007 | .00114 |
| %RSD | .41695 | 5.6844 | 3.0381 | 35.815 | 44.003 | 42.273 | 1.6281 | 380.10 |
| #1 | .57545 | .00578 | .00118 | -.00092 | .00506 | .00100 | .00458 | -.00110 |
| #2 | .57206 | .00626 | .00113 | -.00154 | .00964 | .00054 | .00448 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6060.8** | **77659.** | **5602.5** |
| Stddev | .1 | 66. | 19.8 |
| %RSD | .00155 | .08534 | .35353 |
| #1 | 6060.9 | 77706. | 5588.5 |
| #2 | 6060.8 | 77613. | 5616.5 |

Sample Name: 280-41887-O-2-A Acquired: 5/15/2013 4:49:53 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.01044** | **-.00363** | **1.0612** | **.34822** | **-.00008** | **-.00162** | **134.91** | **.00015** |
| Stddev | .00016 | .00039 | .00011 | .0068 | .00022 | .00002 | .00071 | .16 | .00017 |
| %RSD | 47.876 | 3.7049 | 3.0654 | .64362 | .06332 | 22.911 | 43.728 | .12109 | 116.50 |
| #1 | .00022 | .01017 | -.00371 | 1.0563 | .34807 | -.00007 | -.00112 | 134.79 | .00027 |
| #2 | .00044 | .01072 | -.00355 | 1.0660 | .34838 | -.00009 | -.00212 | 135.02 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00165** | **.00132** | **.00033** | **22.191** | **28.755** | **.07420** | **48.067** | **1.0953** | **-.00034** |
| Stddev | .00004 | .00005 | .00019 | .005 | .005 | .00081 | .193 | .0021 | .00007 |
| %RSD | 2.4637 | 4.0773 | 58.080 | .02050 | .01652 | 1.0893 | .40182 | .19075 | 21.927 |
| #1 | .00168 | .00136 | .00019 | 22.194 | 28.752 | .07477 | 48.203 | 1.0968 | -.00029 |
| #2 | .00162 | .00128 | .00047 | 22.188 | 28.759 | .07363 | 47.930 | 1.0938 | -.00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **187.30** | **.01124** | **1.6005** | **.00341** | **65.821** | **-.00102** | **.00140** | **19.698** | **-.00075** |
| Stddev | .04 | .00041 | .0115 | .00020 | .367 | .00069 | .00201 | .031 | .00067 |
| %RSD | .02253 | 3.6173 | .71909 | 5.8493 | .55684 | 67.918 | 143.94 | .15570 | 89.698 |
| #1 | 187.33 | .01095 | 1.5924 | .00355 | 65.562 | -.00053 | .00282 | 19.676 | -.00027 |
| #2 | 187.27 | .01152 | 1.6086 | .00327 | 66.080 | -.00151 | -.00002 | 19.720 | -.00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.78283** | **.00263** | **.00092** | **.00047** | **-.01118** | **.00113** | **.00334** | **.00061** |
| Stddev | .00244 | .00038 | .00011 | .00092 | .03203 | .00022 | .00065 | .00280 |
| %RSD | .31153 | 14.369 | 11.855 | 196.10 | 286.51 | 19.120 | 19.616 | 457.60 |
| #1 | .78456 | .00290 | .00084 | -.00018 | .01147 | .00098 | .00380 | .00259 |
| #2 | .78111 | .00236 | .00100 | .00112 | -.03383 | .00128 | .00288 | -.00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5978.8** | **78434.** | **5588.4** |
| Stddev | 15.8 | 333. | 12.6 |
| %RSD | .26443 | .42445 | .22602 |
| #1 | 5989.9 | 78199. | 5579.5 |
| #2 | 5967.6 | 78669. | 5597.3 |

Sample Name: 280-41887-O-3-A Acquired: 5/15/2013 4:52:13 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00700** | **-.00028** | **.11151** | **.19880** | **.00005** | **-.00642** | **122.97** | **.00015** |
| Stddev | .00011 | .00020 | .00014 | .00039 | .00027 | .00011 | .00086 | .25 | .00010 |
| %RSD | 62.881 | 2.8769 | 49.766 | .34529 | .13483 | 223.28 | 13.420 | .20413 | 65.834 |
| #1 | .00026 | .00715 | -.00018 | .11123 | .19899 | -.00003 | -.00581 | 123.14 | .00022 |
| #2 | .00010 | .00686 | -.00038 | .11178 | .19861 | .00013 | -.00702 | 122.79 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00022** | **.00026** | **22.163** | **10.847** | **.03295** | **27.628** | **.84240** | **-.00071** |
| Stddev | .00013 | .00002 | .00008 | .047 | .071 | .00063 | .060 | .00011 | .00023 |
| %RSD | 28.768 | 7.4351 | 30.903 | .21049 | .65230 | 1.9139 | .21836 | .01356 | 31.938 |
| #1 | .00054 | .00023 | .00021 | 22.196 | 10.797 | .03251 | 27.585 | .84232 | -.00087 |
| #2 | .00036 | .00021 | .00032 | 22.130 | 10.897 | .03340 | 27.670 | .84248 | -.00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.292** | **.00108** | **1.0483** | **.00193** | **21.832** | **-.00147** | **.00084** | **18.446** | **-.00048** |
| Stddev | .094 | .00032 | .0043 | .00000 | .036 | .00177 | .00125 | .065 | .00017 |
| %RSD | .34520 | 29.262 | .41122 | .09744 | .16297 | 120.15 | 149.18 | .35461 | 35.889 |
| #1 | 27.225 | .00131 | 1.0513 | .00193 | 21.858 | -.00273 | -.00005 | 18.492 | -.00036 |
| #2 | 27.359 | .00086 | 1.0452 | .00193 | 21.807 | -.00022 | .00173 | 18.400 | -.00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45208** | **.00366** | **.00012** | **-.00058** | **.01972** | **.00028** | **.00350** | **-.00088** |
| Stddev | .00096 | .00106 | .00039 | .00045 | .01288 | .00011 | .00033 | .00146 |
| %RSD | .21188 | 29.095 | 328.88 | 77.294 | 65.321 | 39.432 | 9.4354 | 165.65 |
| #1 | .45275 | .00291 | -.00016 | -.00026 | .01061 | .00035 | .00374 | .00015 |
| #2 | .45140 | .00441 | .00039 | -.00090 | .02883 | .00020 | .00327 | -.00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6086.9** | **79262.** | **5637.3** |
| Stddev | 9.7 | 303. | 33.5 |
| %RSD | .15926 | .38209 | .59388 |
| #1 | 6093.8 | 79476. | 5613.7 |
| #2 | 6080.1 | 79048. | 5661.0 |

Sample Name: 280-41887-O-4-A Acquired: 5/15/2013 4:54:37 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **.01048** | **-.00803** | **.04874** | **.04142** | **-.00029** | **-.00621** | W **628.97** | **.00031** |
| Stddev | .00029 | .00020 | .00112 | .00028 | .00067 | .00005 | .00109 | 7.54 | .00020 |
| %RSD | 47.367 | 1.8712 | 14.017 | .57996 | 1.6197 | 18.635 | 17.565 | 1.1990 | 64.999 |
| #1 | -.00081 | .01034 | -.00882 | .04894 | .04189 | -.00032 | -.00544 | 634.30 | .00045 |
| #2 | -.00040 | .01062 | -.00723 | .04854 | .04095 | -.00025 | -.00698 | 623.64 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00056** | **.00103** | **49.247** | **10.968** | **.37690** | **207.59** | **.95257** | **-.00012** |
| Stddev | .00021 | .00004 | .00040 | .085 | .024 | .00021 | .01 | .00017 | .00025 |
| %RSD | 2329.3 | 7.5360 | 38.942 | .17206 | .21604 | .05630 | .00622 | .01761 | 202.26 |
| #1 | .00016 | .00058 | .00131 | 49.187 | 10.985 | .37675 | 207.60 | .95269 | -.00030 |
| #2 | -.00014 | .00053 | .00075 | 49.307 | 10.952 | .37705 | 207.58 | .95245 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **119.49** | **.00077** | **.62845** | **.00081** | **697.73** | **.00079** | **-.00116** | **19.430** | **-.00115** |
| Stddev | .06 | .00089 | .00557 | .00061 | 1.86 | .00153 | .00112 | .067 | .00136 |
| %RSD | .04965 | 115.12 | .88705 | 76.129 | .26639 | 193.44 | 96.881 | .34490 | 118.37 |
| #1 | 119.53 | .00140 | .63240 | .00037 | 699.04 | -.00029 | -.00037 | 19.382 | -.00211 |
| #2 | 119.45 | .00014 | .62451 | .00124 | 696.42 | .00187 | -.00195 | 19.477 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3417** | **.00831** | **.00195** | **.00082** | **-.01424** | **.00237** | **.00362** | **.00078** |
| Stddev | .0010 | .00245 | .00008 | .00014 | .04843 | .00084 | .00014 | .00031 |
| %RSD | .07647 | 29.458 | 4.3315 | 16.713 | 340.22 | 35.343 | 3.8137 | 40.092 |
| #1 | 1.3424 | .00658 | .00201 | .00072 | .02001 | .00296 | .00352 | .00056 |
| #2 | 1.3409 | .01003 | .00189 | .00092 | -.04848 | .00178 | .00371 | .00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5599.3** | **73079.** | **5350.3** |
| Stddev | 5.6 | 428. | 9.0 |
| %RSD | .09949 | .58587 | .16862 |
| #1 | 5603.2 | 72776. | 5343.9 |
| #2 | 5595.4 | 73382. | 5356.6 |

Sample Name: 280-41887-O-5-A Acquired: 5/15/2013 4:57:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00006** | k **.06919** | k **-.00339** | **.22845** | **.26184** | k **-.00003** | k **-.00326** | **204.36** | k **.00017** |
| Stddev | .00022 | .00024 | .00098 | .00173 | .00116 | .00004 | .00032 | .52 | .00010 |
| %RSD | 374.64 | .34881 | 28.978 | .75936 | .44141 | 127.23 | 9.8657 | .25653 | 61.043 |
| #1 | k .00021 | k .06902 | k -.00269 | .22968 | .26266 | k -.00000 | k -.00304 | 204.73 | k .00024 |
| #2 | k -.00010 | k .06936 | k -.00408 | .22723 | .26102 | k -.00007 | k -.00349 | 203.99 | k .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00083** | k **.00055** | k **.00089** | **43.558** | **12.628** | **.06434** | **37.717** | **1.6338** | **.00008** |
| Stddev | .00003 | .00004 | .00087 | .190 | .017 | .00031 | .268 | .0114 | .00003 |
| %RSD | 3.9811 | 7.1309 | 96.863 | .43578 | .13067 | .47559 | .71049 | .69741 | 34.599 |
| #1 | k .00081 | k .00052 | k .00151 | 43.424 | 12.640 | .06413 | 37.906 | 1.6419 | .00010 |
| #2 | k .00085 | k .00057 | k .00028 | 43.692 | 12.617 | .06456 | 37.527 | 1.6258 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.169** | **.00445** | **2.0411** | k **.00417** | **24.940** | k **-.00104** | k **-.00383** | **21.051** | k **.00025** |
| Stddev | .098 | .00007 | .0084 | .00071 | .064 | .00085 | .00077 | .023 | .00096 |
| %RSD | .19457 | 1.6396 | .41351 | 17.028 | .25477 | 81.429 | 20.048 | .10765 | 381.17 |
| #1 | 50.238 | .00450 | 2.0471 | k .00468 | 24.985 | k -.00164 | k -.00328 | 21.067 | k .00093 |
| #2 | 50.100 | .00439 | 2.0351 | k .00367 | 24.895 | k -.00044 | k -.00437 | 21.035 | k -.00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50333** | k **.03947** | k **.00089** | k **-.00092** | k **.01753** | k **.00109** | **.00450** | k **-.00122** |
| Stddev | .00133 | .00080 | .00019 | .00081 | .01555 | .00021 | .00008 | .00192 |
| %RSD | .26362 | 2.0255 | 21.159 | 87.693 | 88.705 | 19.579 | 1.6960 | 157.10 |
| #1 | .50427 | k .03891 | k .00076 | k -.00149 | k .02853 | k .00094 | .00455 | k .00014 |
| #2 | .50239 | k .04004 | k .00102 | k -.00035 | k .00654 | k .00124 | .00444 | k -.00258 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5943.2** | **76772.** | **5541.2** |
| Stddev | 15.9 | 766. | 24.6 |
| %RSD | .26724 | .99729 | .44367 |
| #1 | 5931.9 | 76231. | 5523.8 |
| #2 | 5954.4 | 77313. | 5558.6 |

Sample Name: 280-41887-O-6-A Acquired: 5/15/2013 5:00:05 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.01073** | **.01040** | **1.7957** | **.25584** | **-.00010** | **-.00319** | **163.39** | **-.00012** |
| Stddev | .00015 | .00041 | .00386 | .0007 | .00003 | .00006 | .00106 | .07 | .00024 |
| %RSD | 120.05 | 3.8040 | 37.117 | .03690 | .01086 | 61.865 | 33.141 | .04398 | 205.65 |
| #1 | -.00022 | .01044 | .00767 | 1.7952 | .25582 | -.00005 | -.00244 | 163.34 | -.00029 |
| #2 | -.00002 | .01102 | .01313 | 1.7962 | .25586 | -.00014 | -.00393 | 163.44 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00262** | **.00137** | **.00073** | **26.681** | **15.369** | **.07970** | **48.741** | **1.2013** | **.00055** |
| Stddev | .00006 | .00027 | .00014 | .010 | .007 | .00023 | .217 | .0060 | .00022 |
| %RSD | 2.4143 | 19.492 | 19.499 | .03590 | .04735 | .28630 | .44418 | .50056 | 40.136 |
| #1 | .00267 | .00156 | .00063 | 26.674 | 15.364 | .07953 | 48.895 | 1.2056 | .00039 |
| #2 | .00258 | .00118 | .00083 | 26.688 | 15.374 | .07986 | 48.588 | 1.1971 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **273.21** | **.01308** | **1.7008** | **.00261** | **38.914** | **-.00198** | **-.00118** | **19.321** | **-.00139** |
| Stddev | .32 | .00008 | .0110 | .00124 | .077 | .00055 | .00291 | .055 | .00003 |
| %RSD | .11655 | .60664 | .64356 | 47.646 | .19753 | 27.574 | 245.84 | .28388 | 2.2797 |
| #1 | 273.44 | .01314 | 1.6930 | .00349 | 38.969 | -.00160 | -.00324 | 19.360 | -.00137 |
| #2 | 272.99 | .01303 | 1.7085 | .00173 | 38.860 | -.00237 | .00087 | 19.282 | -.00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.79645** | **.00405** | **.00062** | **.00007** | **.05155** | **.00182** | **.00536** | **.00008** |
| Stddev | .00075 | .00242 | .00000 | .00266 | .00658 | .00027 | .00064 | .00009 |
| %RSD | .09451 | 59.675 | .48690 | 3821.0 | 12.756 | 14.805 | 11.866 | 113.75 |
| #1 | .79592 | .00234 | .00062 | -.00181 | .04690 | .00201 | .00581 | .00002 |
| #2 | .79698 | .00576 | .00062 | .00195 | .05620 | .00163 | .00491 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5870.2** | **75976.** | **5506.8** |
| Stddev | .3 | 356. | 6.8 |
| %RSD | .00583 | .46859 | .12404 |
| #1 | 5870.4 | 75724. | 5511.6 |
| #2 | 5869.9 | 76227. | 5501.9 |

Sample Name: 280-41888-B-1-A Acquired: 5/15/2013 5:02:33 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00088** | **-.00037** | **-.00801** | **.02494** | **.01252** | **-.00027** | **-.00495** | W **620.92** | **.00010** |
| Stddev | .00048 | .00023 | .00144 | .00179 | .00003 | .00008 | .00530 | 3.73 | .00006 |
| %RSD | 53.924 | 61.690 | 18.002 | 7.1797 | .24828 | 28.204 | 107.20 | .60054 | 62.730 |
| #1 | -.00122 | -.00053 | -.00903 | .02620 | .01254 | -.00022 | -.00869 | 618.29 | .00014 |
| #2 | -.00055 | -.00021 | -.00699 | .02367 | .01250 | -.00033 | -.00120 | 623.56 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00080** | **.00086** | **.00092** | **.01478** | **16.053** | **.15057** | **71.364** | **.01639** | **.00004** |
| Stddev | .00010 | .00014 | .00048 | .00283 | .018 | .00004 | .139 | .00002 | .00022 |
| %RSD | 12.336 | 16.708 | 52.340 | 19.129 | .10929 | .02760 | .19530 | .14762 | 619.36 |
| #1 | .00073 | .00096 | .00058 | .01278 | 16.040 | .15060 | 71.463 | .01638 | -.00012 |
| #2 | .00087 | .00075 | .00126 | .01678 | 16.065 | .15054 | 71.266 | .01641 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **517.75** | **.00057** | **.20850** | **.00106** | **659.38** | **.00106** | **.15801** | **11.206** | **-.00122** |
| Stddev | 2.21 | .00018 | .01085 | .00039 | .22 | .00111 | .00029 | .044 | .00135 |
| %RSD | .42690 | 32.410 | 5.2056 | 37.079 | .03291 | 105.07 | .18516 | .38879 | 110.31 |
| #1 | 516.19 | .00044 | .21617 | .00078 | 659.23 | .00184 | .15822 | 11.237 | -.00218 |
| #2 | 519.31 | .00070 | .20082 | .00134 | 659.53 | .00027 | .15780 | 11.175 | -.00027 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.621** | **.00204** | **.00332** | **.00066** | **.04790** | **.00043** | **.00384** | **.00134** |
| Stddev | .004 | .00181 | .00008 | .00142 | .00483 | .00039 | .00014 | .00056 |
| %RSD | .03759 | 88.587 | 2.3918 | 214.23 | 10.076 | 90.394 | 3.6008 | 41.627 |
| #1 | 10.618 | .00076 | .00327 | -.00034 | .05131 | .00070 | .00374 | .00095 |
| #2 | 10.624 | .00332 | .00338 | .00167 | .04449 | .00015 | .00393 | .00174 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5572.7** | **75567.** | **5573.6** |
| Stddev | 65.8 | 338. | 54.9 |
| %RSD | 1.1802 | .44709 | .98457 |
| #1 | 5526.2 | 75328. | 5534.8 |
| #2 | 5619.2 | 75806. | 5612.4 |

Sample Name: 280-41889-T-1-E Acquired: 5/15/2013 5:05:49 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173141 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.01387** | **.00582** | **.43527** | **.39329** | **-.00009** | **-.00352** | **196.18** | **.00007** |
| Stddev | .00045 | .00062 | .00395 | .00177 | .00256 | .00007 | .00036 | 1.09 | .00000 |
| %RSD | 326.10 | 4.4911 | 67.963 | .40586 | .65091 | 79.527 | 10.180 | .55513 | .01549 |
| #1 | .00046 | .01431 | .00302 | .43652 | .39148 | -.00013 | -.00377 | 195.41 | .00007 |
| #2 | -.00018 | .01343 | .00861 | .43402 | .39510 | -.00004 | -.00327 | 196.95 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00139** | **.00054** | **.00013** | **31.807** | **9.5587** | **.05529** | **35.846** | **2.0631** | **-.00036** |
| Stddev | .00003 | .00004 | .00000 | .122 | .0330 | .00136 | .024 | .0029 | .00010 |
| %RSD | 1.9497 | 7.6090 | 3.3556 | .38510 | .34569 | 2.4587 | .06714 | .13865 | 28.633 |
| #1 | .00141 | .00057 | .00012 | 31.720 | 9.5354 | .05433 | 35.829 | 2.0611 | -.00029 |
| #2 | .00137 | .00051 | .00013 | 31.893 | 9.5821 | .05626 | 35.863 | 2.0652 | -.00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **78.319** | **.00725** | **2.1037** | **.00259** | **24.711** | **-.00185** | **-.00365** | **17.887** | **-.00040** |
| Stddev | .354 | .00008 | .0001 | .00061 | .077 | .00087 | .00113 | .025 | .00019 |
| %RSD | .45244 | 1.1565 | .00534 | 23.362 | .31170 | 47.050 | 30.957 | .14231 | 48.761 |
| #1 | 78.068 | .00719 | 2.1038 | .00302 | 24.765 | -.00124 | -.00285 | 17.869 | -.00026 |
| #2 | 78.569 | .00731 | 2.1037 | .00217 | 24.657 | -.00247 | -.00445 | 17.905 | -.00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51125** | **.00628** | **.00091** | **-.00101** | **.00736** | **.00143** | **.00430** | **.00101** |
| Stddev | .00238 | .00015 | .00006 | .00014 | .03099 | .00033 | .00021 | .00210 |
| %RSD | .46482 | 2.4396 | 6.8153 | 13.887 | 421.03 | 22.827 | 4.7826 | 207.87 |
| #1 | .50957 | .00639 | .00095 | -.00091 | -.01455 | .00167 | .00445 | .00249 |
| #2 | .51294 | .00618 | .00086 | -.00111 | .02927 | .00120 | .00416 | -.00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6156.8** | **80231.** | **5857.3** |
| Stddev | 13.9 | 13. | 28.6 |
| %RSD | .22561 | .01678 | .48767 |
| #1 | 6146.9 | 80240. | 5877.5 |
| #2 | 6166.6 | 80221. | 5837.1 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 5:08:11 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00741** | **48.971** | **-.00242** | **-.00413** | **.00123** | **-.00004** | **.99435** | **.02326** | **-.00093** | **.00223** | **-.00015** | **-.00122** | **49.963** |
| Stddev | .00026 | .298 | .00150 | .00031 | .00016 | .00011 | .00153 | .00567 | .00005 | .00004 | .00001 | .00008 | .335 |
| %RSD | 3.4678 | .60854 | 62.050 | 7.5573 | 13.229 | 285.07 | .15338 | 24.390 | 5.8374 | 1.5826 | 9.2901 | 6.7986 | .67046 |
| #1 | .00723 | 49.181 | -.00136 | -.00435 | .00135 | -.00012 | .99543 | .02727 | -.00089 | .00225 | -.00014 | -.00116 | 50.200 |
| #2 | .00759 | 48.760 | -.00349 | -.00391 | .00112 | .00004 | .99327 | .01925 | -.00096 | .00220 | -.00016 | -.00128 | 49.726 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03300** | **.00644** | **-.00804** | **-.00056** | **-.00187** | **248.14** | **.00103** | **.03381** | **.00159** | **5.2256** | **-.00264** | **.00475** | **.01512** |
| Stddev | .06331 | .00019 | .00149 | .00002 | .00026 | 1.33 | .00044 | .00806 | .00239 | .0038 | .00044 | .00306 | .00956 |
| %RSD | 191.83 | 2.9457 | 18.479 | 3.8912 | 13.828 | .53698 | 42.928 | 23.827 | 150.48 | .07270 | 16.613 | 64.513 | 63.261 |
| #1 | .07777 | .00657 | -.00909 | -.00058 | -.00205 | 249.08 | .00134 | .03950 | -.00010 | 5.2229 | -.00233 | .00692 | .02188 |
| #2 | -.01176 | .00630 | -.00699 | -.00055 | -.00169 | 247.20 | .00072 | .02811 | .00328 | 5.2282 | -.00295 | .00258 | .00835 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00044** | **5.1741** | **.00357** | **-.00268** | **9.9209** | **-.00076** | **.00308** | **-.05237** |
| Stddev | .00085 | .00000 | .0141 | .00016 | .00049 | .0468 | .00023 | .00052 | .00272 |
| %RSD | 5155.9 | .62598 | .27237 | 4.3487 | 18.182 | .47196 | 30.166 | 16.871 | 5.1983 |
| #1 | .00062 | .00044 | 5.1841 | .00346 | -.00303 | 9.9540 | -.00093 | .00345 | -.05044 |
| #2 | -.00059 | .00044 | 5.1641 | .00368 | -.00234 | 9.8878 | -.00060 | .00271 | -.05429 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6205.4** | **80042.** | **5898.8** |
| Stddev | 31.6 | 379. | 42.0 |
| %RSD | .50876 | .47331 | .71246 |
| #1 | 6227.7 | 79774. | 5869.1 |
| #2 | 6183.1 | 80310. | 5928.6 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 5:10:39 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53850** | **.47159** | **1.0079** | **.48974** | **.50283** | **.46988** | **.00203** | **5.0098** | **.51296** | **.51635** | **.49093** | **.49630** | **2.4157** | **50.336** |
| Stddev | .00501 | .00159 | .0002 | .00130 | .00085 | .00140 | .00105 | .0043 | .00208 | .00214 | .00107 | .00304 | .0084 | .023 |
| %RSD | .93039 | .33643 | .02129 | .26478 | .16962 | .29744 | 51.646 | .08515 | .40568 | .41504 | .21861 | .61194 | .34626 | .04518 |
| #1 | .54205 | .47047 | 1.0080 | .48882 | .50343 | .47087 | .00277 | 5.0128 | .51148 | .51484 | .49017 | .49845 | 2.4217 | 50.352 |
| #2 | .53496 | .47271 | 1.0077 | .49065 | .50222 | .46889 | .00129 | 5.0068 | .51443 | .51787 | .49169 | .49416 | 2.4098 | 50.320 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0097** | **20.821** | **.52499** | **.48094** | **5.1453** | **.50145** | **.98172** | **1.0221** | **.05661** | **1.0289** | **.98311** | **4.8324** | **.96915** | **.47254** |
| Stddev | .0027 | .134 | .00328 | .00066 | .0141 | .00132 | .00024 | .0001 | .00362 | .0011 | .00155 | .0050 | .00098 | .00245 |
| %RSD | .26454 | .64460 | .62538 | .13657 | .27330 | .26413 | .02435 | .00684 | 6.3966 | .10602 | .15748 | .10256 | .10095 | .51782 |
| #1 | 1.0116 | 20.916 | .52731 | .48141 | 5.1552 | .50051 | .98155 | 1.0222 | .05917 | 1.0297 | .98202 | 4.8359 | .96846 | .47427 |
| #2 | 1.0078 | 20.726 | .52267 | .48048 | 5.1353 | .50238 | .98189 | 1.0221 | .05405 | 1.0281 | .98421 | 4.8289 | .96984 | .47081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00249** | **.51548** | **.97570** | **.02141** | **.50288** | **.53498** | **.49265** |
| Stddev | .00164 | .00428 | .00144 | .01068 | .00291 | .00274 | .00398 |
| %RSD | 65.955 | .83056 | .14712 | 49.875 | .57767 | .51224 | .80761 |
| #1 | .00133 | .51850 | .97672 | .02896 | .50494 | .53692 | .49547 |
| #2 | .00366 | .51245 | .97469 | .01386 | .50083 | .53304 | .48984 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6309.7** | **81254.** | **5858.8** |
| Stddev | 8.2 | 584. | 4.8 |
| %RSD | .12987 | .71843 | .08167 |
| #1 | 6315.5 | 80841. | 5855.5 |
| #2 | 6303.9 | 81667. | 5862.2 |

Sample Name: CCB Acquired: 5/15/2013 5:12:52 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00094** | **-.00027** | **.00274** | F **-.00581** | **.00041** | **.00008** | **-.00106** | **-.00421** | **.00005** | **.00014** | **-.00002** |
| Stddev | .00036 | .00041 | .00047 | .00019 | .00040 | .00002 | .00148 | .00537 | .00016 | .00001 | .00007 |
| %RSD | 37.944 | 148.97 | 17.120 | 3.2774 | 96.355 | 20.315 | 139.07 | 127.69 | 285.61 | 5.0236 | 473.09 |
| #1 | .00120 | -.00056 | .00241 | -.00568 | .00069 | .00010 | -.00002 | -.00801 | -.00006 | .00015 | -.00007 |
| #2 | .00069 | .00001 | .00308 | -.00595 | .00013 | .00007 | -.00211 | -.00041 | .00016 | .00014 | .00004 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | | | | | | | |
| Low Limit | -.00093 | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **.00049** | **.02171** | F **.00526** | **-.00000** | **-.00002** | **-.00015** | F **.32880** | **-.00013** | **.00593** | **-.00013** |
| Stddev | .00012 | .00227 | .02243 | .00065 | .00062 | .00001 | .00025 | .00266 | .00014 | .00268 | .00018 |
| %RSD | 32.266 | 465.91 | 103.31 | 12.369 | 13214. | 69.886 | 164.47 | .80897 | 106.22 | 45.232 | 146.87 |
| #1 | -.00030 | .00209 | .03756 | .00572 | -.00044 | -.00002 | .00002 | .32692 | -.00024 | .00782 | .00000 |
| #2 | -.00047 | -.00112 | .00585 | .00480 | .00043 | -.00001 | -.00032 | .33068 | -.00003 | .00403 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | | |
| Low Limit | | | | -.00522 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04168** | **-.00108** | **-.00025** | **.00423** | **-.00022** | **.00005** | **.00232** | **-.00017** | **-.00066** | **-.00225** | **-.00028** |
| Stddev | .00272 | .00090 | .00020 | .00071 | .00047 | .00001 | .00045 | .00005 | .00052 | .00544 | .00003 |
| %RSD | 6.5162 | 83.765 | 79.357 | 16.833 | 211.79 | 17.272 | 19.429 | 27.086 | 77.893 | 241.92 | 9.7826 |
| #1 | .04360 | -.00044 | -.00039 | .00372 | -.00055 | .00006 | .00264 | -.00020 | -.00103 | .00160 | -.00030 |
| #2 | .03976 | -.00172 | -.00011 | .00473 | .00011 | .00004 | .00200 | -.00014 | -.00030 | -.00610 | -.00026 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00305** | **.00126** |
| Stddev | .00006 | .00198 |
| %RSD | 2.0320 | 157.27 |
| #1 | .00309 | .00266 |
| #2 | .00301 | -.00014 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6291.8** | **81863.** | **5804.2** |
| Stddev | .2 | 142. | 15.5 |
| %RSD | .00300 | .17289 | .26741 |
| #1 | 6291.9 | 81763. | 5793.3 |
| #2 | 6291.6 | 81963. | 5815.2 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 5:15:21 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01163** | **.09476** | **.01510** | **.08816** | **.01102** | **.00097** | **.10281** | **.20020** | **.00523** | **.01119** | **.00998** |
| Stddev | .00007 | .00030 | .00011 | .00044 | .00037 | .00011 | .00058 | .00188 | .00011 | .00007 | .00000 |
| %RSD | .64033 | .31874 | .71640 | .49692 | 3.3235 | 11.140 | .56729 | .93869 | 2.0330 | .63109 | .02204 |
| #1 | .01168 | .09454 | .01518 | .08846 | .01128 | .00105 | .10239 | .20153 | .00530 | .01124 | .00997 |
| #2 | .01157 | .09497 | .01502 | .08785 | .01076 | .00090 | .10322 | .19887 | .00515 | .01114 | .00998 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01448** | **.10141** | **3.0900** | F **.01605** | **.20957** | **.01065** | **.01875** | W **1.2951** | **.04083** | **2.8256** | **.00995** |
| Stddev | .00002 | .00044 | .0529 | .00187 | .00079 | .00005 | .00010 | .0008 | .00016 | .0042 | .00204 |
| %RSD | .15773 | .42968 | 1.7129 | 11.623 | .37670 | .42346 | .54307 | .05866 | .38773 | .14889 | 20.532 |
| #1 | .01447 | .10172 | 3.1274 | .01473 | .20902 | .01061 | .01882 | 1.2945 | .04072 | 2.8286 | .00851 |
| #2 | .01450 | .10110 | 3.0526 | .01737 | .21013 | .01068 | .01867 | 1.2956 | .04094 | 2.8226 | .01140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03482** | **.00977** | **.01529** | **.49481** | **.09732** | **.00983** | **.01401** | **.00991** | **.01393** | F **.09062** | **.00977** |
| Stddev | .00114 | .00072 | .00230 | .02346 | .00005 | .00001 | .00003 | .00009 | .00036 | .01728 | .00062 |
| %RSD | 3.2774 | 7.3589 | 15.060 | 4.7409 | .05238 | .07811 | .22546 | .89561 | 2.5869 | 19.068 | 6.3634 |
| #1 | .03563 | .01028 | .01692 | .51140 | .09736 | .00983 | .01404 | .00997 | .01419 | .10284 | .00933 |
| #2 | .03402 | .00927 | .01366 | .47822 | .09729 | .00982 | .01399 | .00985 | .01368 | .07841 | .01021 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02471** | **.01725** |
| Stddev | .00068 | .00124 |
| %RSD | 2.7443 | 7.2060 |
| #1 | .02423 | .01813 |
| #2 | .02519 | .01637 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6366.8** | **83107.** | **5827.0** |
| Stddev | 5.5 | 3. | 63.4 |
| %RSD | .08595 | .00412 | 1.0873 |
| #1 | 6362.9 | 83109. | 5782.2 |
| #2 | 6370.7 | 83105. | 5871.8 |

Sample Name: MB 280-173722/1-A Acquired: 5/15/2013 5:17:46 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00080** | **.00497** | **.00070** | F **-.00641** | W **.00075** | **.00002** | **-.00071** | **.00524** | **.00003** |
| Stddev | .00051 | .00036 | .00134 | .00031 | .00038 | .00001 | .00186 | .00260 | .00002 |
| %RSD | 63.540 | 7.1580 | 191.26 | 4.8081 | 50.216 | 47.172 | 261.12 | 49.560 | 84.005 |
| | | | | | | | | | |
| #1 | .00044 | .00522 | -.00025 | -.00663 | .00102 | .00001 | -.00203 | .00340 | .00004 |
| #2 | .00117 | .00472 | .00164 | -.00619 | .00049 | .00003 | .00060 | .00707 | .00001 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | .00058 | | | | |
| Low Limit | | | | -.00343 | -.00058 | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00000** | **-.00005** | F **.06982** | **.04048** | W **.00508** | **.00348** | W **.00038** | **-.00020** |
| Stddev | .00004 | .00011 | .00002 | .00040 | .00419 | .00235 | .00030 | .00004 | .00006 |
| %RSD | 15.255 | 7433.9 | 41.552 | .56897 | 10.351 | 46.271 | 8.6074 | 11.538 | 28.745 |
| | | | | | | | | | |
| #1 | .00021 | -.00008 | -.00007 | .06954 | .04344 | .00674 | .00327 | .00041 | -.00024 |
| #2 | .00026 | .00008 | -.00004 | .07010 | .03752 | .00342 | .00369 | .00035 | -.00016 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | .04840 | | .00261 | | .00025 | |
| Low Limit | | | | -.04840 | | -.00261 | | -.00025 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.32077** | **.00029** | F **.19101** | **-.00023** | **.03950** | **-.00085** | **-.00165** | W **.04018** | **-.00068** |
| Stddev | .00761 | .00020 | .00379 | .00011 | .00354 | .00295 | .00132 | .00902 | .00011 |
| %RSD | 2.3715 | 68.008 | 1.9838 | 50.398 | 8.9555 | 349.48 | 80.035 | 22.458 | 16.486 |
| | | | | | | | | | |
| #1 | .31539 | .00042 | .19369 | -.00031 | .03700 | -.00293 | -.00072 | .03380 | -.00060 |
| #2 | .32615 | .00015 | .18833 | -.00015 | .04200 | .00124 | -.00259 | .04656 | -.00076 |
| | | | | | | | | | |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .20152 | | .02970 | | | | | .03470 | |
| Low Limit | -.20152 | | -.02970 | | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00015** | **-.00026** | **-.00090** | W **.03307** | **.00016** | **.00243** | **-.00015** |
| Stddev | .00005 | .00135 | .00061 | .00067 | .03137 | .00016 | .00007 | .00258 |
| %RSD | 56.112 | 921.99 | 229.97 | 74.627 | 94.856 | 102.66 | 2.7434 | 1687.7 |
| | | | | | | | | |
| #1 | .00005 | -.00081 | .00017 | -.00138 | .01089 | .00028 | .00238 | .00167 |
| #2 | .00011 | .00110 | -.00069 | -.00043 | .05526 | .00004 | .00248 | -.00198 |
| | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01610 | | | |
| Low Limit | | | | | -.01610 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6422.2** | **83814.** | **5947.6** |
| Stddev | 9.8 | 905. | 45.8 |
| %RSD | .15243 | 1.0794 | .76966 |
| | | | |
| #1 | 6415.3 | 84454. | 5915.2 |
| #2 | 6429.1 | 83174. | 5980.0 |

Sample Name: LCS 280-173722/2-A Acquired: 5/15/2013 5:20:17 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05724** | **1.8091** | **1.0171** | **.97857** | **2.0450** | **.04778** | **2.0537** | **49.707** | **.10506** |
| Stddev | .00072 | .0012 | .0037 | .00039 | .0076 | .00009 | .0025 | .201 | .00010 |
| %RSD | 1.2531 | .06771 | .36831 | .03998 | .37123 | .19209 | .12190 | .40390 | .09467 |
| #1 | .05673 | 1.8099 | 1.0144 | .97829 | 2.0397 | .04772 | 2.0519 | 49.565 | .10499 |
| #2 | .05775 | 1.8082 | 1.0197 | .97884 | 2.0504 | .04785 | 2.0555 | 49.849 | .10513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50832** | **.19674** | **.24642** | **1.0241** | **51.008** | **1.0160** | **51.378** | **.51483** | **.94138** |
| Stddev | .00046 | .00003 | .00229 | .0108 | .249 | .0039 | .414 | .00346 | .00019 |
| %RSD | .09046 | .01681 | .93099 | 1.0509 | .48880 | .38071 | .80572 | .67192 | .02029 |
| #1 | .50864 | .19672 | .24480 | 1.0165 | 50.832 | 1.0133 | 51.085 | .51239 | .94125 |
| #2 | .50799 | .19677 | .24804 | 1.0317 | 51.184 | 1.0188 | 51.670 | .51728 | .94152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.739** | **.49291** | **10.104** | **.50484** | **.02461** | **.50841** | **1.9931** | **9.7264** | **1.8826** |
| Stddev | .255 | .00013 | .009 | .00333 | .00382 | .00345 | .0052 | .0204 | .0003 |
| %RSD | .49331 | .02738 | .09082 | .66011 | 15.521 | .67780 | .26063 | .20938 | .01786 |
| #1 | 51.559 | .49281 | 10.098 | .50720 | .02731 | .50598 | 1.9894 | 9.7408 | 1.8828 |
| #2 | 51.920 | .49301 | 10.111 | .50249 | .02191 | .51085 | 1.9968 | 9.7120 | 1.8823 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95522** | **1.0518** | **1.0001** | **1.9263** | **2.0701** | **.50187** | **.52345** | **.47604** |
| Stddev | .00222 | .0056 | .0080 | .0029 | .0193 | .00494 | .00468 | .00036 |
| %RSD | .23279 | .53655 | .80052 | .14791 | .93194 | .98427 | .89395 | .07571 |
| #1 | .95365 | 1.0478 | .99445 | 1.9242 | 2.0564 | .49838 | .52014 | .47629 |
| #2 | .95679 | 1.0558 | 1.0058 | 1.9283 | 2.0837 | .50537 | .52676 | .47578 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6207.9** | **81326.** | **5833.9** |
| Stddev | 11.9 | 543. | 9.9 |
| %RSD | .19213 | .66771 | .16957 |
| #1 | 6199.5 | 81710. | 5840.9 |
| #2 | 6216.3 | 80942. | 5826.9 |

Sample Name: 280-42008-C-18-A  Acquired: 5/15/2013 5:22:29  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00238** | **-.00017** | **.02316** | **.13193** | **.00012** | **-.00169** | **6.9959** | **.00007** |
| Stddev | .00032 | .00012 | .00279 | .00010 | .00047 | .00004 | .00126 | .0089 | .00005 |
| %RSD | 79.724 | 5.1569 | 1617.8 | .44328 | .35891 | 35.395 | 74.904 | .12741 | 81.747 |
| #1 | .00063 | .00247 | .00180 | .02323 | .13226 | .00015 | -.00079 | 7.0022 | .00010 |
| #2 | .00018 | .00230 | -.00215 | .02309 | .13160 | .00009 | -.00258 | 6.9896 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00123** | **.00254** | **.03920** | **2.7659** | **.00698** | **2.2276** | **.00040** | **.00005** |
| Stddev | .00009 | .00001 | .00054 | .00023 | .0549 | .00185 | .0101 | .00000 | .00005 |
| %RSD | 22.098 | .88380 | 21.197 | .58358 | 1.9860 | 26.477 | .45533 | 1.0035 | 101.94 |
| #1 | .00036 | .00124 | .00292 | .03936 | 2.8048 | .00567 | 2.2347 | .00041 | .00008 |
| #2 | .00049 | .00122 | .00216 | .03904 | 2.7271 | .00829 | 2.2204 | .00040 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.055** | **.00135** | **.23926** | **.00180** | **.33088** | **-.00218** | **-.00288** | **12.665** | **-.00037** |
| Stddev | .296 | .00055 | .00163 | .00074 | .00397 | .00262 | .00392 | .064 | .00073 |
| %RSD | 2.1075 | 41.024 | .68260 | 41.347 | 1.1998 | 119.93 | 136.29 | .50572 | 195.89 |
| #1 | 13.845 | .00174 | .24042 | .00127 | .33369 | -.00033 | -.00565 | 12.710 | -.00089 |
| #2 | 14.264 | .00096 | .23811 | .00232 | .32808 | -.00403 | -.00010 | 12.620 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03810** | **.00117** | **-.00023** | **.00007** | **.04793** | **.00047** | **.00719** | **-.00024** |
| Stddev | .00034 | .00081 | .00025 | .00106 | .03214 | .00015 | .00015 | .00061 |
| %RSD | .90040 | 69.387 | 109.58 | 1601.4 | 67.046 | 31.917 | 2.0328 | 247.91 |
| #1 | .03834 | .00059 | -.00005 | .00082 | .07066 | .00058 | .00729 | .00018 |
| #2 | .03786 | .00174 | -.00041 | -.00068 | .02521 | .00037 | .00709 | -.00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6390.1** | **83257.** | **5922.0** |
| Stddev | 17.2 | 10. | 26.3 |
| %RSD | .26857 | .01148 | .44368 |
| #1 | 6402.3 | 83250. | 5940.6 |
| #2 | 6378.0 | 83264. | 5903.4 |

Sample Name: sd 42008-C-18-A@5 Acquired: 5/15/2013 5:24:56 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00049** | **.00065** | **-.00061** | **.02710** | **.00006** | **.00165** | **1.4550** | **-.00023** |
| Stddev | .00014 | .00003 | .00285 | .00074 | .00001 | .00012 | .00069 | .0059 | .00010 |
| %RSD | 21.193 | 5.2787 | 440.33 | 120.41 | .03799 | 189.13 | 41.927 | .40261 | 44.902 |
| #1 | .00074 | .00048 | .00267 | -.00009 | .02711 | -.00002 | .00116 | 1.4591 | -.00031 |
| #2 | .00055 | .00051 | -.00137 | -.00113 | .02709 | .00015 | .00214 | 1.4508 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00020** | **.00019** | **.03227** | **.57234** | **.00393** | **.45610** | **.00019** | **-.00001** |
| Stddev | .00000 | .00004 | .00041 | .00157 | .05340 | .00132 | .00057 | .00011 | .00008 |
| %RSD | 1.2043 | 21.023 | 218.26 | 4.8735 | 9.3305 | 33.678 | .12396 | 57.553 | 741.31 |
| #1 | .00025 | .00017 | .00048 | .03116 | .61011 | .00487 | .45570 | .00011 | .00004 |
| #2 | .00026 | .00023 | -.00010 | .03338 | .53458 | .00300 | .45650 | .00027 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0050** | **.00007** | **.04900** | **.00110** | **.08211** | **-.00081** | **-.00038** | **2.6069** | **-.00012** |
| Stddev | .0044 | .00036 | .00032 | .00020 | .00248 | .00133 | .00062 | .0076 | .00031 |
| %RSD | .14771 | 533.45 | .65116 | 18.040 | 3.0238 | 165.12 | 160.08 | .29112 | 265.19 |
| #1 | 3.0019 | -.00019 | .04878 | .00124 | .08387 | .00014 | .00005 | 2.6122 | -.00033 |
| #2 | 3.0082 | .00032 | .04923 | .00096 | .08035 | -.00175 | -.00082 | 2.6015 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00785** | **-.00050** | **-.00009** | **-.00066** | **.01750** | **.00025** | **.00483** | **.00052** |
| Stddev | .00004 | .00177 | .00027 | .00109 | .05300 | .00007 | .00005 | .00050 |
| %RSD | .53841 | 355.49 | 302.83 | 163.72 | 302.91 | 28.681 | 1.0920 | 94.774 |
| #1 | .00782 | -.00175 | .00010 | -.00143 | .05497 | .00030 | .00479 | .00088 |
| #2 | .00788 | .00075 | -.00028 | .00010 | -.01998 | .00020 | .00487 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6424.6** | **83100.** | **5830.0** |
| Stddev | 1.8 | 69. | 40.9 |
| %RSD | .02871 | .08325 | .70200 |
| #1 | 6425.9 | 83051. | 5801.1 |
| #2 | 6423.3 | 83149. | 5859.0 |

Sample Name: 280-42008-C-18-B MS  Acquired: 5/15/2013 5:27:24  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05842** | **1.8211** | **1.0289** | **1.0477** | **2.2106** | **.04832** | **2.0864** | **57.366** | **.10666** |
| Stddev | .00034 | .0019 | .0053 | .0008 | .0015 | .00005 | .0025 | .054 | .00011 |
| %RSD | .58986 | .10356 | .51677 | .08139 | .06629 | .11043 | .11865 | .09354 | .09971 |
| #1 | .05818 | 1.8198 | 1.0251 | 1.0471 | 2.2095 | .04828 | 2.0882 | 57.328 | .10659 |
| #2 | .05866 | 1.8224 | 1.0327 | 1.0483 | 2.2116 | .04836 | 2.0847 | 57.404 | .10674 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51470** | **.19968** | **.25397** | **1.0406** | **54.458** | **1.0277** | **54.392** | **.52362** | **.97027** |
| Stddev | .00014 | .00034 | .00147 | .0045 | .013 | .0021 | .004 | .00050 | .00011 |
| %RSD | .02803 | .16914 | .57992 | .43432 | .02454 | .20465 | .00733 | .09558 | .01117 |
| #1 | .51460 | .19944 | .25293 | 1.0374 | 54.448 | 1.0292 | 54.394 | .52327 | .97035 |
| #2 | .51480 | .19992 | .25501 | 1.0438 | 54.467 | 1.0263 | 54.389 | .52398 | .97020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **66.356** | **.49873** | **10.234** | **.51100** | **.33765** | **.52836** | **2.0298** | **22.921** | **1.9594** |
| Stddev | .408 | .00035 | .013 | .00013 | .00819 | .00037 | .0050 | .086 | .0030 |
| %RSD | .61511 | .06994 | .12526 | .02555 | 2.4254 | .07070 | .24840 | .37674 | .15454 |
| #1 | 66.645 | .49848 | 10.225 | .51091 | .34344 | .52863 | 2.0262 | 22.982 | 1.9615 |
| #2 | 66.068 | .49898 | 10.243 | .51109 | .33186 | .52810 | 2.0333 | 22.860 | 1.9572 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0038** | **1.0690** | **1.0396** | **1.9510** | **2.0892** | **.50929** | **.53576** | **.49198** |
| Stddev | .0011 | .0010 | .0033 | .0080 | .0209 | .00075 | .00097 | .00460 |
| %RSD | .10802 | .09210 | .31528 | .41118 | 1.0004 | .14663 | .18175 | .93524 |
| #1 | 1.0046 | 1.0683 | 1.0373 | 1.9566 | 2.1040 | .50877 | .53507 | .49524 |
| #2 | 1.0031 | 1.0697 | 1.0419 | 1.9453 | 2.0745 | .50982 | .53645 | .48873 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6193.0** | **81108.** | **5842.6** |
| Stddev | 3.0 | 329. | 15.2 |
| %RSD | .04778 | .40582 | .26039 |
| #1 | 6190.9 | 80875. | 5831.8 |
| #2 | 6195.1 | 81340. | 5853.3 |

Sample Name: 280-42008-C-18-C MSD Acquired: 5/15/2013 5:29:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05859** | **1.8385** | **1.0380** | **1.0566** | **2.2177** | **.04880** | **2.0975** | **57.733** | **.10728** |
| Stddev | .00137 | .0022 | .0060 | .0001 | .0115 | .00017 | .0006 | .307 | .00023 |
| %RSD | 2.3329 | .12007 | .58235 | .00801 | .51708 | .34576 | .02924 | .53101 | .21781 |
| #1 | .05956 | 1.8400 | 1.0337 | 1.0567 | 2.2096 | .04868 | 2.0971 | 57.516 | .10744 |
| #2 | .05763 | 1.8369 | 1.0423 | 1.0565 | 2.2258 | .04892 | 2.0980 | 57.949 | .10711 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51714** | **.20167** | **.25668** | **1.0904** | **54.626** | **1.0344** | **54.909** | **.52969** | **.97752** |
| Stddev | .00072 | .00017 | .00032 | .0080 | .262 | .0066 | .004 | .00052 | .00052 |
| %RSD | .13843 | .08305 | .12536 | .72927 | .47937 | .63277 | .00729 | .09893 | .05275 |
| #1 | .51664 | .20179 | .25691 | 1.0848 | 54.441 | 1.0298 | 54.906 | .52932 | .97789 |
| #2 | .51765 | .20155 | .25645 | 1.0960 | 54.811 | 1.0391 | 54.912 | .53006 | .97716 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **66.615** | **.50109** | **10.298** | **.51236** | **.33429** | **.52949** | **2.0301** | **23.218** | **1.9630** |
| Stddev | .432 | .00001 | .009 | .00082 | .00142 | .00166 | .0096 | .043 | .0030 |
| %RSD | .64894 | .00171 | .08309 | .15972 | .42514 | .31367 | .47314 | .18508 | .15244 |
| #1 | 66.309 | .50110 | 10.304 | .51294 | .33328 | .53067 | 2.0233 | 23.188 | 1.9609 |
| #2 | 66.920 | .50108 | 10.292 | .51178 | .33529 | .52832 | 2.0369 | 23.248 | 1.9651 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0120** | **1.0736** | **1.0473** | **1.9526** | **2.0906** | **.51531** | **.53953** | **.49539** |
| Stddev | .0026 | .0010 | .0002 | .0069 | .0314 | .00019 | .00215 | .00186 |
| %RSD | .25191 | .08918 | .02215 | .35606 | 1.5033 | .03692 | .39909 | .37453 |
| #1 | 1.0102 | 1.0743 | 1.0475 | 1.9477 | 2.1128 | .51545 | .54105 | .49408 |
| #2 | 1.0138 | 1.0729 | 1.0471 | 1.9575 | 2.0684 | .51518 | .53800 | .49670 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6147.2** | **80498.** | **5827.7** |
| Stddev | 13.9 | 191. | 33.3 |
| %RSD | .22615 | .23777 | .57195 |
| #1 | 6137.4 | 80362. | 5851.3 |
| #2 | 6157.0 | 80633. | 5804.2 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 5:31:49 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00753** | **50.473** | **.00149** | **-.00385** | **.00139** | **-.00004** | **1.0117** | **.01266** | **-.00101** | **.00223** | **.00010** | **-.00064** | **51.364** |
| Stddev | .00038 | .066 | .00041 | .00057 | .00007 | .00002 | .0048 | .00199 | .00003 | .00036 | .00010 | .00009 | .028 |
| %RSD | 5.0088 | .13047 | 27.617 | 14.762 | 4.7027 | 41.738 | .47090 | 15.695 | 3.0147 | 15.901 | 100.95 | 14.893 | .05359 |
| #1 | .00727 | 50.519 | .00179 | -.00345 | .00143 | -.00005 | 1.0083 | .01407 | -.00099 | .00198 | .00018 | -.00057 | 51.384 |
| #2 | .00780 | 50.426 | .00120 | -.00425 | .00134 | -.00003 | 1.0151 | .01126 | -.00103 | .00248 | .00003 | -.00070 | 51.345 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10121** | **.00618** | **-.00490** | **-.00067** | **-.00210** | **256.34** | **.00112** | **.00476** | **.00169** | **5.2311** | **-.00317** | **.00638** | **.03006** |
| Stddev | .01081 | .00021 | .00012 | .00004 | .00025 | 1.02 | .00003 | .00276 | .00119 | .0292 | .00111 | .00487 | .01129 |
| %RSD | 10.678 | 3.3737 | 2.4110 | 6.1042 | 11.806 | .39764 | 2.9796 | 58.039 | 70.659 | .55763 | 35.126 | 76.370 | 37.557 |
| #1 | .10885 | .00632 | -.00498 | -.00064 | -.00228 | 257.06 | .00115 | .00671 | .00084 | 5.2105 | -.00238 | .00294 | .03804 |
| #2 | .09357 | .00603 | -.00481 | -.00069 | -.00193 | 255.61 | .00110 | .00281 | .00253 | 5.2517 | -.00395 | .00983 | .02208 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00051** | **5.3030** | **.00449** | **-.00191** | **10.151** | **-.00084** | **.00418** | **-.05381** |
| Stddev | .00024 | .00000 | .0006 | .00006 | .00039 | .052 | .00034 | .00026 | .00060 |
| %RSD | 123.03 | .13109 | .01070 | 1.3628 | 20.679 | .51366 | 40.586 | 6.1641 | 1.1223 |
| #1 | .00036 | .00051 | 5.3026 | .00445 | -.00219 | 10.188 | -.00060 | .00436 | -.05424 |
| #2 | .00003 | .00051 | 5.3034 | .00453 | -.00163 | 10.114 | -.00108 | .00400 | -.05338 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6201.0** | **80003.** | **5775.5** |
| Stddev | 4.3 | 305. | 34.6 |
| %RSD | .06955 | .38075 | .59873 |
| #1 | 6204.1 | 79788. | 5751.0 |
| #2 | 6198.0 | 80219. | 5799.9 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 5:34:17 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54234** | **.47812** | **1.0137** | **.48966** | **.50760** | **.47392** | **.00264** | **5.0464** | **.51708** | **.52112** | **.49232** | **.49906** | **2.4675** | **50.680** |
| Stddev | .00054 | .00070 | .0017 | .00009 | .00261 | .00364 | .00172 | .0355 | .00098 | .00053 | .00020 | .00108 | .0060 | .297 |
| %RSD | .10009 | .14642 | .17017 | .01813 | .51359 | .76836 | 65.193 | .70412 | .18856 | .10140 | .03991 | .21740 | .24256 | .58575 |
| #1 | .54196 | .47861 | 1.0125 | .48973 | .50945 | .47649 | .00386 | 5.0716 | .51777 | .52074 | .49246 | .49829 | 2.4718 | 50.890 |
| #2 | .54272 | .47762 | 1.0150 | .48960 | .50576 | .47134 | .00142 | 5.0213 | .51639 | .52149 | .49218 | .49983 | 2.4633 | 50.470 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0184** | **20.906** | **.52855** | **.48200** | **5.1299** | **.50403** | **.96356** | **1.0280** | **.01153** | **1.0366** | **.98032** | **4.9235** | **.97213** | **.47627** |
| Stddev | .0075 | .025 | .00049 | .00136 | .0941 | .00070 | .00291 | .0043 | .00114 | .0020 | .00738 | .0200 | .00277 | .00376 |
| %RSD | .73630 | .11979 | .09289 | .28183 | 1.8344 | .13955 | .30248 | .41585 | 9.9180 | .19281 | .75243 | .40671 | .28462 | .79006 |
| #1 | 1.0237 | 20.888 | .52820 | .48104 | 5.1965 | .50452 | .96150 | 1.0249 | .01072 | 1.0351 | .98554 | 4.9094 | .97017 | .47893 |
| #2 | 1.0131 | 20.923 | .52890 | .48296 | 5.0634 | .50353 | .96562 | 1.0310 | .01234 | 1.0380 | .97511 | 4.9377 | .97408 | .47361 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00299** | **.51977** | **.98216** | **.00986** | **.50446** | **.53601** | **.50019** |
| Stddev | .00096 | .00084 | .00008 | .02048 | .00124 | .00041 | .00147 |
| %RSD | 32.168 | .16088 | .00774 | 207.79 | .24558 | .07672 | .29372 |
| #1 | .00367 | .51918 | .98221 | -.00463 | .50359 | .53631 | .50123 |
| #2 | .00231 | .52036 | .98210 | .02434 | .50534 | .53572 | .49915 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6320.2** | **81418.** | **5863.8** |
| Stddev | 9.8 | 81. | 60.6 |
| %RSD | .15576 | .09990 | 1.0331 |
| #1 | 6313.3 | 81475. | 5821.0 |
| #2 | 6327.2 | 81360. | 5906.6 |

Sample Name: CCB Acquired: 5/15/2013 5:36:32 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00085** | **-.00008** | F **-.00608** | W **.00092** | **.00018** | **-.00380** | **-.00016** | **.00005** | **.00011** | **.00003** |
| Stddev | .00064 | .00042 | .00194 | .00039 | .00024 | .00002 | .00037 | .00291 | .00018 | .00018 | .00002 |
| %RSD | 648.40 | 49.193 | 2468.5 | 6.3677 | 25.905 | 9.1440 | 9.6417 | 1823.6 | 386.81 | 171.44 | 55.898 |
| #1 | -.00036 | .00114 | .00129 | -.00580 | .00075 | .00019 | -.00406 | .00190 | -.00008 | -.00002 | .00005 |
| #2 | .00055 | .00055 | -.00145 | -.00635 | .00109 | .00017 | -.00354 | -.00222 | .00017 | .00023 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.00350** | **-.00399** | W **.00479** | **.00118** | **.00012** | **.00005** | F **.24879** | **-.00015** | **-.00467** | **.00047** |
| Stddev | .00032 | .00067 | .01865 | .00208 | .00379 | .00004 | .00027 | .00021 | .00008 | .00330 | .00053 |
| %RSD | 249.60 | 19.192 | 467.92 | 43.370 | 322.22 | 32.901 | 517.74 | .08437 | 55.503 | 70.585 | 112.95 |
| #1 | .00010 | .00397 | .00920 | .00626 | .00385 | .00015 | -.00014 | .24894 | -.00021 | -.00234 | .00009 |
| #2 | -.00035 | .00302 | -.01717 | .00332 | -.00150 | .00009 | .00024 | .24864 | -.00009 | -.00701 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01335** | **-.00127** | **.00232** | **.01867** | **-.00077** | **.00013** | **.00185** | **-.00005** | **-.00063** | **.01119** | **.00013** |
| Stddev | .00029 | .00002 | .00384 | .00164 | .00024 | .00004 | .00003 | .00051 | .00099 | .02210 | .00013 |
| %RSD | 2.2013 | 1.7127 | 165.54 | 8.7624 | 31.308 | 31.789 | 1.5960 | 1029.1 | 156.31 | 197.43 | 96.340 |
| #1 | .01356 | -.00126 | .00504 | .01752 | -.00094 | .00015 | .00187 | -.00041 | .00007 | .02682 | .00022 |
| #2 | .01314 | -.00129 | -.00040 | .01983 | -.00060 | .00010 | .00183 | .00031 | -.00133 | -.00443 | .00004 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00275** | **-.00193** |
| Stddev | .00031 | .00082 |
| %RSD | 11.271 | 42.503 |
| #1 | .00253 | -.00135 |
| #2 | .00297 | -.00251 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6306.3** | **82401.** | **5767.9** |
| Stddev | 3.5 | 30. | 11.3 |
| %RSD | .05473 | .03639 | .19577 |
| #1 | 6303.9 | 82380. | 5775.9 |
| #2 | 6308.7 | 82422. | 5760.0 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 5:39:01 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01117** | **.09502** | **.01477** | **.08901** | **.01064** | **.00088** | **.10257** | **.19881** | **.00519** | **.01108** | **.01017** |
| Stddev | .00006 | .00068 | .00243 | .00057 | .00006 | .00012 | .00077 | .00007 | .00016 | .00008 | .00014 |
| %RSD | .58066 | .71166 | 16.460 | .63502 | .56597 | 13.423 | .75264 | .03583 | 3.1385 | .75944 | 1.3720 |
| #1 | .01112 | .09550 | .01305 | .08941 | .01060 | .00096 | .10202 | .19876 | .00530 | .01102 | .01007 |
| #2 | .01121 | .09454 | .01648 | .08861 | .01068 | .00079 | .10312 | .19886 | .00507 | .01114 | .01027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01476** | **.10690** | **3.0924** | F **.01543** | **.21491** | **.01077** | **.01905** | W **1.2208** | **.04089** | **2.8254** | **.01060** |
| Stddev | .00049 | .00178 | .0615 | .00121 | .00273 | .00013 | .00005 | .0017 | .00008 | .0076 | .00028 |
| %RSD | 3.3081 | 1.6637 | 1.9896 | 7.8402 | 1.2705 | 1.1686 | .24524 | .13976 | .20678 | .26849 | 2.6369 |
| #1 | .01441 | .10816 | 3.0489 | .01629 | .21684 | .01068 | .01902 | 1.2196 | .04083 | 2.8308 | .01040 |
| #2 | .01510 | .10564 | 3.1359 | .01458 | .21298 | .01086 | .01908 | 1.2220 | .04095 | 2.8201 | .01080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01314** | **.00845** | **.01389** | **.49811** | **.09730** | **.00965** | **.01560** | **.01026** | **.01397** | **.06950** | **.01005** |
| Stddev | .00164 | .00225 | .00043 | .01219 | .00049 | .00003 | .00064 | .00014 | .00155 | .01610 | .00024 |
| %RSD | 12.509 | 26.670 | 3.0652 | 2.4479 | .50023 | .28992 | 4.0880 | 1.3639 | 11.091 | 23.169 | 2.3622 |
| #1 | .01198 | .01005 | .01359 | .48949 | .09696 | .00963 | .01515 | .01016 | .01288 | .08088 | .00988 |
| #2 | .01430 | .00686 | .01419 | .50673 | .09765 | .00967 | .01605 | .01036 | .01507 | .05811 | .01022 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02401** | **.01504** |
| Stddev | .00025 | .00045 |
| %RSD | 1.0555 | 2.9616 |
| #1 | .02383 | .01536 |
| #2 | .02419 | .01473 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6364.7** | **82639.** | **5841.8** |
| Stddev | 1.4 | 316. | .2 |
| %RSD | .02187 | .38257 | .00287 |
| #1 | 6365.7 | 82415. | 5841.6 |
| #2 | 6363.7 | 82863. | 5841.9 |

Sample Name: 280-42026-A-9-B  Acquired: 5/15/2013 5:41:26  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.02380** | **.00046** | **.23900** | **.03987** | **-.00003** | **-.00028** | **69.270** | **.00002** |
| Stddev | .00060 | .00006 | .00092 | .00059 | .00000 | .00006 | .00064 | .142 | .00004 |
| %RSD | 218.22 | .25509 | 201.77 | .24888 | .00317 | 166.05 | 230.69 | .20456 | 238.04 |
| #1 | .00070 | .02385 | .00111 | .23858 | .03987 | .00001 | -.00073 | 69.170 | -.00001 |
| #2 | -.00015 | .02376 | -.00020 | .23942 | .03987 | -.00007 | .00017 | 69.370 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **.00048** | **.01690** | **.32782** | **16.711** | **.04402** | **14.695** | **.04930** | **.00375** |
| Stddev | .00011 | .00022 | .00025 | .00026 | .035 | .00028 | .001 | .00010 | .00005 |
| %RSD | 8.0521 | 45.989 | 1.4633 | .07852 | .20645 | .64041 | .00827 | .21221 | 1.3311 |
| #1 | .00146 | .00063 | .01673 | .32764 | 16.687 | .04422 | 14.696 | .04938 | .00372 |
| #2 | .00130 | .00032 | .01708 | .32800 | 16.736 | .04382 | 14.694 | .04923 | .00379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **137.44** | **.00286** | **1.0602** | **.00051** | **44.116** | **-.00032** | **-.00002** | **4.2206** | **-.00021** |
| Stddev | .62 | .00023 | .0022 | .00006 | .038 | .00218 | .00076 | .0034 | .00053 |
| %RSD | .44795 | 7.9947 | .20411 | 12.254 | .08711 | 674.10 | 3243.7 | .08094 | 249.64 |
| #1 | 137.00 | .00270 | 1.0587 | .00055 | 44.089 | -.00187 | -.00056 | 4.2182 | -.00059 |
| #2 | 137.87 | .00302 | 1.0617 | .00047 | 44.143 | .00122 | .00051 | 4.2230 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67506** | **.00192** | **.00157** | **-.00015** | **.01422** | **.00264** | **.06308** | **.00003** |
| Stddev | .00159 | .00188 | .00012 | .00051 | .02545 | .00013 | .00079 | .00102 |
| %RSD | .23513 | 98.270 | 7.8317 | 331.71 | 178.92 | 5.1053 | 1.2485 | 2961.2 |
| #1 | .67394 | .00325 | .00166 | -.00052 | -.00377 | .00273 | .06252 | -.00069 |
| #2 | .67618 | .00059 | .00148 | .00021 | .03221 | .00254 | .06364 | .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6223.3** | **80852.** | **5859.7** |
| Stddev | 8.2 | 52. | .2 |
| %RSD | .13246 | .06481 | .00378 |
| #1 | 6217.5 | 80890. | 5859.5 |
| #2 | 6229.2 | 80815. | 5859.8 |

Sample Name: 280-42040-B-1-A Acquired: 5/15/2013 5:43:50 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.16200** | **-.00411** | **.03896** | **.06842** | **-.00007** | **-.00215** | **208.73** | **.00013** |
| Stddev | .00021 | .00031 | .00197 | .00030 | .00008 | .00009 | .00125 | .36 | .00021 |
| %RSD | 104.74 | .19204 | 47.818 | .77089 | .12127 | 117.54 | 58.427 | .17163 | 156.88 |
| #1 | .00035 | .16222 | -.00272 | .03918 | .06848 | -.00001 | -.00126 | 208.98 | .00028 |
| #2 | .00005 | .16178 | -.00550 | .03875 | .06836 | -.00014 | -.00303 | 208.48 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00089** | **.00300** | **.47708** | **7.0669** | **.03017** | **22.192** | **.01714** | **.00080** |
| Stddev | .00004 | .00009 | .00011 | .00324 | .0203 | .00025 | .022 | .00010 | .00015 |
| %RSD | 6.4663 | 10.603 | 3.5077 | .67998 | .28718 | .82752 | .09809 | .59704 | 18.368 |
| #1 | .00068 | .00096 | .00308 | .47938 | 7.0813 | .02999 | 22.207 | .01722 | .00069 |
| #2 | .00062 | .00082 | .00293 | .47479 | 7.0526 | .03035 | 22.177 | .01707 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **91.973** | **.00095** | **.34832** | **.00118** | **116.10** | **.00099** | **.00059** | **7.9342** | **-.00113** |
| Stddev | .516 | .00007 | .00066 | .00060 | .03 | .00103 | .00013 | .0095 | .00029 |
| %RSD | .56152 | 7.7941 | .18979 | 50.347 | .02270 | 103.86 | 22.745 | .11992 | 25.718 |
| #1 | 92.338 | .00090 | .34879 | .00161 | 116.11 | .00171 | .00049 | 7.9275 | -.00093 |
| #2 | 91.608 | .00100 | .34786 | .00076 | 116.08 | .00026 | .00068 | 7.9409 | -.00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4087** | **.00183** | **.00547** | **-.00032** | **.00635** | **.00154** | **.11794** | **.00177** |
| Stddev | .0111 | .00163 | .00009 | .00093 | .03307 | .00008 | .00033 | .00046 |
| %RSD | .46057 | 88.848 | 1.6379 | 289.29 | 520.37 | 5.0960 | .27638 | 25.811 |
| #1 | 2.4166 | .00298 | .00553 | -.00098 | -.01703 | .00159 | .11771 | .00209 |
| #2 | 2.4009 | .00068 | .00541 | .00033 | .02974 | .00148 | .11817 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6101.5** | **80338.** | **5836.6** |
| Stddev | 11.9 | 203. | 5.3 |
| %RSD | .19570 | .25214 | .09042 |
| #1 | 6109.9 | 80481. | 5832.8 |
| #2 | 6093.0 | 80194. | 5840.3 |

Sample Name: 280-42064-B-1-A  Acquired: 5/15/2013 5:46:14  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **135.13** | **.04425** | **.10977** | **1.4513** | **.00826** | W **-.01029** | **238.79** | **.00320** |
| Stddev | .00013 | 1.48 | .00118 | .00023 | .0151 | .00014 | .00346 | 1.08 | .00001 |
| %RSD | 28.487 | 1.0954 | 2.6730 | .20623 | 1.0404 | 1.6688 | 33.634 | .45212 | .37091 |
| #1 | .00035 | 134.08 | .04508 | .10993 | 1.4406 | .00816 | -.00784 | 238.03 | .00319 |
| #2 | .00053 | 136.18 | .04341 | .10961 | 1.4620 | .00836 | -.01274 | 239.56 | .00321 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07199** | **.14836** | **.28532** | **157.58** | **31.247** | **.12848** | **49.297** | **3.7482** | **.01809** |
| Stddev | .00023 | .00004 | .00071 | 1.67 | .347 | .00146 | .036 | .0274 | .00010 |
| %RSD | .32028 | .02731 | .24843 | 1.0577 | 1.1106 | 1.1395 | .07281 | .73034 | .55960 |
| #1 | .07215 | .14839 | .28482 | 156.40 | 31.001 | .12745 | 49.272 | 3.7288 | .01816 |
| #2 | .07182 | .14833 | .28582 | 158.76 | 31.492 | .12952 | 49.323 | 3.7676 | .01802 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **113.48** | **.14491** | **3.3121** | **.23128** | **26.638** | **-.00588** | **.00190** | W **84.468** | **.01018** |
| Stddev | 1.09 | .00029 | .0075 | .00001 | .017 | .00355 | .00386 | .777 | .00092 |
| %RSD | .96449 | .20156 | .22721 | .00299 | .06380 | 60.389 | 203.02 | .91934 | 8.9849 |
| #1 | 112.71 | .14511 | 3.3174 | .23129 | 26.650 | -.00337 | .00463 | 83.919 | .01083 |
| #2 | 114.25 | .14470 | 3.3067 | .23128 | 26.626 | -.00839 | -.00083 | 85.017 | .00954 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 50.000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0632** | **.09532** | **1.5057** | **-.00610** | F **-.12061** | **.39067** | **1.0265** | **.02111** |
| Stddev | .0106 | .00014 | .0022 | .00013 | .00036 | .00054 | .0005 | .00000 |
| %RSD | .99728 | .14343 | .14477 | 2.1314 | .29923 | .13930 | .04903 | .00268 |
| #1 | 1.0557 | .09542 | 1.5041 | -.00601 | -.12086 | .39029 | 1.0269 | .02111 |
| #2 | 1.0707 | .09523 | 1.5072 | -.00619 | -.12035 | .39106 | 1.0262 | .02111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6732.2** | **86984.** | **6550.8** |
| Stddev | 2.7 | 354. | 31.7 |
| %RSD | .04033 | .40694 | .48453 |
| #1 | 6734.1 | 86734. | 6573.2 |
| #2 | 6730.3 | 87234. | 6528.3 |

Sample Name: 280-42064-B-2-A  Acquired: 5/15/2013 5:48:40  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **33.808** | **.00767** | **.05558** | **.31405** | **.00182** | **-.00924** | **63.554** | **.00048** |
| Stddev | .00018 | .095 | .00245 | .00013 | .00099 | .00001 | .00380 | .167 | .00012 |
| %RSD | 38.267 | .28184 | 31.946 | .23007 | .31371 | .57660 | 41.073 | .26205 | 24.821 |
| #1 | -.00035 | 33.876 | .00940 | .05549 | .31475 | .00181 | -.00656 | 63.672 | .00039 |
| #2 | -.00061 | 33.741 | .00594 | .05567 | .31336 | .00183 | -.01192 | 63.436 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01239** | **.02928** | **.04312** | **28.813** | **8.6136** | **.04340** | **17.551** | **.30279** | **.00732** |
| Stddev | .00017 | .00004 | .00031 | .061 | .0773 | .00104 | .052 | .00071 | .00009 |
| %RSD | 1.3711 | .12199 | .71920 | .21130 | .89728 | 2.3859 | .29559 | .23408 | 1.2429 |
| #1 | .01227 | .02926 | .04333 | 28.856 | 8.6682 | .04413 | 17.588 | .30330 | .00726 |
| #2 | .01251 | .02931 | .04290 | 28.770 | 8.5589 | .04267 | 17.514 | .30229 | .00738 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **36.474** | **.02795** | **.74828** | **.03604** | **26.041** | **-.00149** | **.00653** | W **67.123** | **.00070** |
| Stddev | .146 | .00000 | .00358 | .00105 | .022 | .00025 | .00233 | .062 | .00037 |
| %RSD | .39977 | .01259 | .47859 | 2.9172 | .08630 | 16.599 | 35.601 | .09236 | 52.940 |
| #1 | 36.577 | .02795 | .74574 | .03678 | 26.025 | -.00132 | .00489 | 67.167 | .00097 |
| #2 | 36.371 | .02795 | .75081 | .03529 | 26.057 | -.00167 | .00818 | 67.080 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 50.000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51903** | **.02126** | **.27099** | **-.00141** | **-.02286** | **.07426** | **.13641** | **.00763** |
| Stddev | .00273 | .00154 | .00071 | .00032 | .03004 | .00046 | .00083 | .00084 |
| %RSD | .52516 | 7.2355 | .26232 | 22.834 | 131.42 | .62410 | .60772 | 11.011 |
| #1 | .52096 | .02235 | .27049 | -.00119 | -.04410 | .07458 | .13699 | .00704 |
| #2 | .51711 | .02017 | .27150 | -.00164 | -.00162 | .07393 | .13582 | .00823 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6414.9** | **82835.** | **6089.0** |
| Stddev | 7.3 | 11. | .9 |
| %RSD | .11399 | .01276 | .01557 |
| #1 | 6420.0 | 82842. | 6088.4 |
| #2 | 6409.7 | 82827. | 6089.7 |

Sample Name: 280-42064-B-3-A Acquired: 5/15/2013 5:50:59 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173722 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **.23925** | **.00045** | **.06780** | **.08545** | **.00002** | **-.00323** | **73.172** | **.00019** |
| Stddev | .00013 | .00235 | .00111 | .00019 | .00037 | .00004 | .00224 | .505 | .00005 |
| %RSD | 14.296 | .98336 | 246.86 | .28326 | .43034 | 281.04 | 69.241 | .69024 | 23.421 |
| #1 | .00102 | .24092 | -.00033 | .06767 | .08571 | -.00002 | -.00165 | 73.529 | .00023 |
| #2 | .00083 | .23759 | .00123 | .06794 | .08519 | .00005 | -.00482 | 72.815 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **.00129** | **.00898** | **.22442** | **7.1123** | **.02772** | **16.528** | **.01159** | **.00573** |
| Stddev | .00032 | .00003 | .00005 | .00380 | .0521 | .00067 | .015 | .00009 | .00005 |
| %RSD | 21.821 | 2.6587 | .52751 | 1.6933 | .73202 | 2.4197 | .09028 | .80516 | .90160 |
| #1 | .00168 | .00132 | .00894 | .22711 | 7.0754 | .02820 | 16.538 | .01166 | .00577 |
| #2 | .00123 | .00127 | .00901 | .22173 | 7.1491 | .02725 | 16.517 | .01153 | .00569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **63.341** | **.00563** | **.25191** | **.00046** | **57.822** | **-.00135** | **.00231** | **3.4712** | **-.00049** |
| Stddev | .495 | .00000 | .00504 | .00063 | .003 | .00115 | .00044 | .0028 | .00052 |
| %RSD | .78073 | .05288 | 2.0000 | 137.48 | .00584 | 85.187 | 19.227 | .08153 | 107.20 |
| #1 | 63.691 | .00563 | .24835 | .00091 | 57.820 | -.00053 | .00200 | 3.4692 | -.00085 |
| #2 | 62.991 | .00564 | .25547 | .00001 | 57.825 | -.00216 | .00262 | 3.4732 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.77370** | **.00073** | **.00480** | **.00003** | **.00809** | **.00212** | **.01015** | **.00118** |
| Stddev | .00645 | .00037 | .00060 | .00001 | .01246 | .00012 | .00117 | .00150 |
| %RSD | .83308 | 50.789 | 12.410 | 32.782 | 154.13 | 5.4640 | 11.547 | 126.96 |
| #1 | .77826 | .00047 | .00437 | .00002 | -.00073 | .00221 | .00932 | .00224 |
| #2 | .76915 | .00099 | .00522 | .00004 | .01690 | .00204 | .01098 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6313.3** | **82305.** | **5940.4** |
| Stddev | 4.6 | 273. | 56.7 |
| %RSD | .07306 | .33140 | .95367 |
| #1 | 6316.6 | 82112. | 5900.3 |
| #2 | 6310.1 | 82498. | 5980.4 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 5:53:25 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00791** | **52.415** | **.00071** | **-.00529** | **.00115** | **.00002** | **1.0441** | **.01582** | **-.00090** | **.00240** | **.00000** | **-.00139** |
| Stddev | .00041 | .229 | .00127 | .00033 | .00063 | .00006 | .0029 | .00297 | .00016 | .00009 | .00003 | .00069 |
| %RSD | 5.2082 | .43766 | 179.47 | 6.1753 | 54.573 | 329.46 | .28288 | 18.742 | 17.573 | 3.7134 | 2153.2 | 49.656 |
| #1 | .00821 | 52.253 | .00160 | -.00506 | .00071 | -.00002 | 1.0461 | .01373 | -.00079 | .00233 | .00002 | -.00090 |
| #2 | .00762 | 52.577 | -.00019 | -.00552 | .00160 | .00006 | 1.0420 | .01792 | -.00101 | .00246 | -.00002 | -.00188 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.885** | **.02982** | **.00474** | **-.00887** | **-.00068** | **-.00209** | **264.85** | **.00122** | **.00237** | **-.00165** | **5.4434** | **-.00306** |
| Stddev | .122 | .03077 | .00056 | .00036 | .00002 | .00004 | .46 | .00007 | .00084 | .00131 | .0026 | .00107 |
| %RSD | .23061 | 103.19 | 11.837 | 4.0492 | 3.4539 | 1.6789 | .17433 | 5.9957 | 35.606 | 79.387 | .04805 | 34.880 |
| #1 | 52.971 | .05158 | .00434 | -.00913 | -.00066 | -.00206 | 264.52 | .00117 | .00296 | -.00258 | 5.4453 | -.00230 |
| #2 | 52.799 | .00806 | .00513 | -.00862 | -.00070 | -.00211 | 265.17 | .00127 | .00177 | -.00072 | 5.4416 | -.00381 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00517** | **.02530** | **.00024** | **.00043** | F **5.5204** | **.00437** | **-.00257** | **10.476** | **-.00060** | **.00343** | **-.05951** |
| Stddev | .00127 | .00722 | .00028 | .00018 | .0229 | .00010 | .00251 | .018 | .00044 | .00051 | .00442 |
| %RSD | 24.492 | 28.525 | 117.34 | 40.828 | .41491 | 2.3660 | 97.531 | .16752 | 72.986 | 14.907 | 7.4257 |
| #1 | .00427 | .03040 | .00004 | .00056 | 5.5042 | .00429 | -.00434 | 10.463 | -.00091 | .00379 | -.05639 |
| #2 | .00606 | .02019 | .00043 | .00031 | 5.5366 | .00444 | -.00080 | 10.488 | -.00029 | .00307 | -.06264 |
| Check ? | None | None | None | None | Chk Fail | None | None | Chk Pass | None | None | None |
| Value | | | | | 5.0000 | | | | | | |
| Range | | | | | 10.000% | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6198.6** | **80384.** | **5808.7** |
| Stddev | 5.7 | 142. | 4.2 |
| %RSD | .09245 | .17718 | .07287 |
| #1 | 6194.5 | 80485. | 5811.7 |
| #2 | 6202.6 | 80283. | 5805.7 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 5:55:54 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.55434** | **.50531** | **1.0380** | **.50070** | **.52076** | **.48899** | **.00348** | **5.2409** | **.52937** | **.53311** | **.50406** | **.51070** |
| Stddev | .00098 | .00490 | .0014 | .00076 | .00367 | .00436 | .00033 | .0161 | .00013 | .00078 | .00011 | .00028 |
| %RSD | .17758 | .96993 | .13722 | .15141 | .70492 | .89175 | 9.4406 | .30694 | .02405 | .14550 | .02145 | .05577 |
| #1 | .55504 | .50878 | 1.0390 | .50016 | .51816 | .48590 | .00371 | 5.2523 | .52946 | .53366 | .50398 | .51050 |
| #2 | .55365 | .50185 | 1.0370 | .50124 | .52336 | .49207 | .00325 | 5.2295 | .52928 | .53256 | .50413 | .51090 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .50000 | | | | | | | | | | | |
| Range | 10.000% | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6476** | **52.032** | **1.0488** | **21.471** | **.54279** | **.49362** | **5.2696** | **.51487** | **.98329** | **1.0534** | **.03116** | **1.0616** |
| Stddev | .0077 | .340 | .0085 | .009 | .00001 | .00041 | .0138 | .00055 | .00300 | .0004 | .00096 | .0008 |
| %RSD | .29053 | .65252 | .81315 | .04334 | .00170 | .08399 | .26252 | .10606 | .30514 | .04094 | 3.0795 | .07770 |
| #1 | 2.6530 | 51.791 | 1.0428 | 21.477 | .54278 | .49332 | 5.2598 | .51525 | .98117 | 1.0531 | .03184 | 1.0621 |
| #2 | 2.6421 | 52.272 | 1.0548 | 21.464 | .54279 | .49391 | 5.2793 | .51448 | .98541 | 1.0537 | .03048 | 1.0610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0043** | **5.0656** | **.99830** | **.48884** | **.00396** | **.53314** | **1.0075** | **-.00162** | **.51701** | F **.55895** | **.51489** |
| Stddev | .0052 | .0249 | .00202 | .00310 | .00066 | .00008 | .0016 | .03184 | .00062 | .00101 | .00064 |
| %RSD | .52015 | .49234 | .20258 | .63433 | 16.633 | .01464 | .15724 | 1961.8 | .12028 | .18145 | .12358 |
| #1 | 1.0006 | 5.0832 | .99687 | .48664 | .00442 | .53309 | 1.0064 | -.02414 | .51745 | .55967 | .51444 |
| #2 | 1.0080 | 5.0480 | .99973 | .49103 | .00349 | .53320 | 1.0087 | .02089 | .51657 | .55823 | .51534 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6320.8** | **81555.** | **5828.0** |
| Stddev | 2.3 | 177. | 23.5 |
| %RSD | .03609 | .21686 | .40389 |
| #1 | 6319.2 | 81430. | 5844.6 |
| #2 | 6322.4 | 81680. | 5811.3 |

Sample Name: CCB Acquired: 5/15/2013 5:58:08 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00122** | **.00068** | **-.00013** | F **-.00664** | W **.00097** | **.00009** | **-.00124** | **-.00180** | **.00000** | **.00015** | **-.00010** |
| Stddev | .00025 | .00026 | .00034 | .00041 | .00038 | .00002 | .00153 | .00437 | .00001 | .00015 | .00003 |
| %RSD | 20.829 | 37.613 | 261.40 | 6.1412 | 39.138 | 26.378 | 123.34 | 242.18 | 1090.5 | 102.08 | 32.349 |
| #1 | .00140 | .00086 | -.00037 | -.00635 | .00123 | .00010 | -.00233 | .00129 | -.00001 | .00004 | -.00012 |
| #2 | .00104 | .00050 | .00011 | -.00693 | .00070 | .00007 | -.00016 | -.00489 | .00001 | .00025 | -.00008 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00066** | **.00245** | **.02746** | W **.00474** | **.00232** | **.00008** | **-.00003** | F **.22637** | **-.00007** | **-.00702** | **.00037** |
| Stddev | .00017 | .00350 | .04640 | .00073 | .00049 | .00004 | .00003 | .01038 | .00051 | .00131 | .00031 |
| %RSD | 25.098 | 142.80 | 168.94 | 15.311 | 21.172 | 55.002 | 85.069 | 4.5833 | 682.46 | 18.686 | 83.715 |
| #1 | -.00054 | .00493 | .06027 | .00525 | .00197 | .00011 | -.00005 | .23371 | .00028 | -.00795 | .00015 |
| #2 | -.00078 | -.00002 | -.00534 | .00422 | .00267 | .00005 | -.00001 | .21903 | -.00043 | -.00609 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01865** | **-.00109** | **-.00016** | **.01417** | **-.00011** | **.00022** | **.00039** | **-.00000** | **-.00068** | **.02610** | **-.00050** |
| Stddev | .00019 | .00022 | .00405 | .00086 | .00012 | .00001 | .00131 | .00040 | .00064 | .00246 | .00024 |
| %RSD | 1.0369 | 20.461 | 2599.4 | 6.0328 | 116.75 | 5.6146 | 340.46 | 10242. | 93.839 | 9.4187 | 47.687 |
| #1 | .01851 | -.00093 | .00271 | .01357 | -.00019 | .00021 | .00131 | .00028 | -.00114 | .02784 | -.00067 |
| #2 | .01878 | -.00125 | -.00302 | .01478 | -.00002 | .00023 | -.00054 | -.00029 | -.00023 | .02436 | -.00033 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00287** | **.00150** |
| Stddev | .00020 | .00270 |
| %RSD | 6.8803 | 180.40 |
| #1 | .00301 | .00341 |
| #2 | .00273 | -.00041 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6333.0** | **82369.** | **5801.1** |
| Stddev | 2.0 | 451. | 30.9 |
| %RSD | .03135 | .54758 | .53336 |
| #1 | 6334.4 | 82051. | 5779.2 |
| #2 | 6331.6 | 82688. | 5823.0 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 6:00:36 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01119** | **.09543** | **.01347** | **.08827** | **.01088** | **.00097** | **.10291** | **.20175** | **.00517** | **.01102** | **.01001** |
| Stddev | .00043 | .00053 | .00011 | .00085 | .00026 | .00004 | .00035 | .00081 | .00018 | .00027 | .00010 |
| %RSD | 3.8651 | .55074 | .79104 | .95760 | 2.3834 | 4.1207 | .34320 | .40327 | 3.4401 | 2.4612 | .95888 |
| #1 | .01089 | .09506 | .01339 | .08767 | .01107 | .00094 | .10316 | .20118 | .00529 | .01121 | .01008 |
| #2 | .01150 | .09580 | .01355 | .08887 | .01070 | .00100 | .10266 | .20233 | .00504 | .01083 | .00994 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01461** | **.10261** | **3.0802** | F **.01605** | **.21291** | **.01068** | **.01882** | **1.1953** | **.04133** | **2.8143** | **.00951** |
| Stddev | .00010 | .00362 | .0490 | .00139 | .00121 | .00004 | .00024 | .0098 | .00024 | .0137 | .00024 |
| %RSD | .65432 | 3.5280 | 1.5896 | 8.6820 | .56869 | .35087 | 1.2571 | .81776 | .57281 | .48573 | 2.4955 |
| #1 | .01468 | .10517 | 3.1148 | .01703 | .21205 | .01065 | .01865 | 1.2022 | .04116 | 2.8046 | .00968 |
| #2 | .01454 | .10005 | 3.0456 | .01506 | .21377 | .01070 | .01899 | 1.1884 | .04149 | 2.8239 | .00934 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01251** | **.00915** | F **.01017** | **.50835** | **.09711** | **.00965** | **.01576** | **.01021** | **.01373** | W **.07450** | **.00952** |
| Stddev | .00133 | .00026 | .00435 | .01000 | .00004 | .00002 | .00112 | .00011 | .00154 | .04067 | .00020 |
| %RSD | 10.657 | 2.8068 | 42.776 | 1.9668 | .04077 | .20442 | 7.1137 | 1.1050 | 11.249 | 54.598 | 2.1139 |
| #1 | .01346 | .00933 | .00709 | .51542 | .09714 | .00964 | .01497 | .01029 | .01263 | .10326 | .00966 |
| #2 | .01157 | .00897 | .01325 | .50128 | .09709 | .00967 | .01656 | .01013 | .01482 | .04574 | .00938 |
| Check ? | None | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | -30.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02397** | **.01401** |
| Stddev | .00033 | .00134 |
| %RSD | 1.3713 | 9.5716 |
| #1 | .02420 | .01306 |
| #2 | .02373 | .01496 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6353.4** | **83014.** | **5795.6** |
| Stddev | 19.7 | 29. | .4 |
| %RSD | .31024 | .03543 | .00724 |
| #1 | 6367.4 | 82993. | 5795.3 |
| #2 | 6339.5 | 83035. | 5795.9 |

Sample Name: LB3 280-173124/1-C Acquired: 5/15/2013 6:03:01 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173891 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00697** | **.00125** | **.00203** | **.00088** | **-.00005** | **-.00007** | W **.10814** | **-.00017** |
| Stddev | .00046 | .00043 | .00084 | .00028 | .00004 | .00018 | .00246 | .00146 | .00010 |
| %RSD | 176.49 | 6.1883 | 66.908 | 13.561 | 4.1435 | 357.59 | 3763.9 | 1.3533 | 57.761 |
| #1 | -.00007 | .00667 | .00066 | .00223 | .00086 | -.00018 | -.00181 | .10710 | -.00025 |
| #2 | .00059 | .00728 | .00185 | .00184 | .00091 | .00008 | .00168 | .10917 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | .10000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00019** | **.00014** | **.01090** | **-.03113** | **.00373** | **.01823** | **.00013** | **.00009** |
| Stddev | .00019 | .00011 | .00008 | .00078 | .03007 | .00014 | .00473 | .00003 | .00001 |
| %RSD | 71.622 | 57.787 | 55.926 | 7.1985 | 96.595 | 3.8009 | 25.924 | 23.349 | 6.6423 |
| #1 | .00040 | .00027 | .00020 | .01146 | -.05239 | .00383 | .01489 | .00015 | .00008 |
| #2 | .00013 | .00011 | .00009 | .01035 | -.00987 | .00363 | .02157 | .00011 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.6744** | **.00019** | F **.21890** | **.00155** | **.02378** | **-.00181** | **-.00210** | F **.14231** | **.00012** |
| Stddev | .0015 | .00012 | .00308 | .00080 | .00164 | .00168 | .00321 | .00325 | .00033 |
| %RSD | .08709 | 67.357 | 1.4077 | 51.282 | 6.8959 | 92.647 | 152.66 | 2.2862 | 276.04 |
| #1 | 1.6733 | .00027 | .22108 | .00211 | .02263 | -.00063 | -.00437 | .14001 | -.00011 |
| #2 | 1.6754 | .00010 | .21672 | .00099 | .02494 | -.00300 | .00017 | .14461 | .00035 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 1.0000 | | .01000 | | | | | .10000 | |
| Low Limit | -1.0000 | | -.01000 | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00054** | **-.00017** | **-.00072** | **-.00883** | **-.00003** | **.00368** | **.00133** |
| Stddev | .00018 | .00014 | .00018 | .00058 | .02455 | .00012 | .00006 | .00127 |
| %RSD | 121.45 | 26.676 | 108.80 | 81.182 | 277.84 | 396.35 | 1.5403 | 95.727 |
| #1 | .00002 | .00044 | -.00030 | -.00113 | -.02619 | .00006 | .00364 | .00222 |
| #2 | .00028 | .00065 | -.00004 | -.00030 | .00852 | -.00012 | .00372 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6405.8** | **83174.** | **5884.8** |
| Stddev | 10.7 | 48. | 18.0 |
| %RSD | .16772 | .05755 | .30595 |
| #1 | 6398.2 | 83140. | 5897.5 |
| #2 | 6413.4 | 83207. | 5872.1 |

Sample Name: LCS 280-173124/2-C Acquired: 5/15/2013 6:05:30 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173891 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22668** | **.36809** | **.78713** | **.19086** | **2.4323** | **.00915** | **.39689** | **9.7079** | **.22652** |
| Stddev | .00017 | .00010 | .00007 | .00056 | .0031 | .00001 | .00403 | .0084 | .00015 |
| %RSD | .07498 | .02767 | .00942 | .29095 | .12702 | .10418 | 1.0147 | .08662 | .06406 |
| #1 | .22680 | .36816 | .78708 | .19125 | 2.4345 | .00914 | .39974 | 9.7138 | .22642 |
| #2 | .22656 | .36802 | .78718 | .19047 | 2.4301 | .00915 | .39404 | 9.7020 | .22663 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10047** | **1.0165** | **.44510** | **.19452** | **9.7611** | **.20218** | **10.024** | **.10157** | **.18802** |
| Stddev | .00016 | .0006 | .00159 | .00276 | .0782 | .00052 | .004 | .00002 | .00002 |
| %RSD | .15459 | .05982 | .35667 | 1.4166 | .80100 | .25658 | .03622 | .02213 | .01125 |
| #1 | .10036 | 1.0170 | .44398 | .19646 | 9.8164 | .20181 | 10.021 | .10159 | .18803 |
| #2 | .10058 | 1.0161 | .44623 | .19257 | 9.7058 | .20254 | 10.027 | .10156 | .18800 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.507** | **.09626** | **2.0761** | **1.1290** | **.02344** | **.10173** | **.56215** | F **2.0254** | **.37954** |
| Stddev | .094 | .00013 | .0040 | .0013 | .00199 | .00057 | .00332 | .0094 | .00154 |
| %RSD | .82034 | .13217 | .19513 | .11168 | 8.5023 | .55659 | .59037 | .46421 | .40581 |
| #1 | 11.574 | .09635 | 2.0790 | 1.1281 | .02485 | .10133 | .55981 | 2.0321 | .37845 |
| #2 | 11.440 | .09617 | 2.0733 | 1.1299 | .02204 | .10213 | .56450 | 2.0188 | .38063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | .48000 | |
| Low Limit | | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18382** | **.20021** | **.20234** | **.37824** | **.42645** | **.09714** | **.52428** | **.09700** |
| Stddev | .00102 | .00168 | .00044 | .00378 | .00733 | .00077 | .00001 | .00255 |
| %RSD | .55381 | .83926 | .21868 | .99848 | 1.7194 | .79708 | .00143 | 2.6262 |
| #1 | .18454 | .19902 | .20203 | .37557 | .43164 | .09659 | .52428 | .09520 |
| #2 | .18310 | .20140 | .20265 | .38091 | .42127 | .09769 | .52429 | .09880 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6345.0** | **82249.** | **5849.7** |
| Stddev | 1.8 | 147. | 22.1 |
| %RSD | .02816 | .17851 | .37832 |
| #1 | 6343.7 | 82146. | 5834.1 |
| #2 | 6346.3 | 82353. | 5865.4 |

Sample Name: 280-41727-P-5-E Acquired: 5/15/2013 6:07:47 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173891 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.07609** | **.92276** | **.54168** | **.09885** | **.00043** | **.00070** | **33.029** | **.00039** |
| Stddev | .00009 | .00087 | .00945 | .00277 | .00033 | .00001 | .00108 | .044 | .00016 |
| %RSD | 274.94 | 1.1380 | 1.0238 | .51218 | .33170 | 1.5441 | 153.79 | .13313 | 41.786 |
| #1 | .00010 | .07670 | .92944 | .54364 | .09908 | .00043 | .00147 | 33.060 | .00028 |
| #2 | -.00003 | .07548 | .91608 | .53972 | .09862 | .00044 | -.00006 | 32.998 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01538** | **.03839** | **.00682** | **.45562** | W **215.59** | **.14991** | **39.695** | **.02656** | **.32393** |
| Stddev | .00010 | .00024 | .00012 | .00262 | .45 | .00180 | .061 | .00002 | .00151 |
| %RSD | .67729 | .62400 | 1.7227 | .57408 | .20740 | 1.2011 | .15304 | .08335 | .46600 |
| #1 | .01545 | .03856 | .00674 | .45747 | 215.90 | .14864 | 39.652 | .02654 | .32500 |
| #2 | .01531 | .03822 | .00690 | .45377 | 215.27 | .15119 | 39.738 | .02657 | .32287 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **890.40** | **.18771** | **1.8297** | **.00180** | **118.52** | **.00528** | **.00407** | **7.5520** | **.00427** |
| Stddev | 1.19 | .00086 | .0072 | .00042 | .65 | .00134 | .00000 | .0573 | .00025 |
| %RSD | .13396 | .45621 | .39539 | 23.139 | .54468 | 25.424 | .11711 | .75835 | 5.8240 |
| #1 | 891.24 | .18832 | 1.8348 | .00150 | 118.97 | .00433 | .00407 | 7.5115 | .00409 |
| #2 | 889.55 | .18710 | 1.8246 | .00209 | 118.06 | .00623 | .00408 | 7.5925 | .00445 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40182** | **.00108** | **.00446** | **.00099** | **-.00213** | **.18524** | **.01821** | **.00537** |
| Stddev | .00020 | .00087 | .00018 | .00044 | .00395 | .00111 | .00017 | .00057 |
| %RSD | .04970 | 80.632 | 4.0201 | 43.951 | 185.65 | .59692 | .91628 | 10.568 |
| #1 | .40196 | .00046 | .00458 | .00068 | .00067 | .18446 | .01833 | .00497 |
| #2 | .40168 | .00169 | .00433 | .00130 | -.00492 | .18602 | .01810 | .00577 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6033.7** | **78508.** | **5861.5** |
| Stddev | 22.1 | 66. | 10.0 |
| %RSD | .36575 | .08469 | .16999 |
| #1 | 6018.1 | 78555. | 5868.5 |
| #2 | 6049.3 | 78461. | 5854.4 |

Sample Name: sd 280-41727-P-5-E@5 Acquired: 5/15/2013 6:10:47 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173891 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **.01644** | **.18668** | **.10945** | **.02122** | **.00006** | **-.00081** | **7.0725** | **.00015** |
| Stddev | .00081 | .00032 | .00353 | .00011 | .00051 | .00008 | .00115 | .0220 | .00000 |
| %RSD | 493.49 | 1.9214 | 1.8923 | .09701 | 2.4213 | 124.72 | 142.11 | .31081 | 3.1649 |
| #1 | .00041 | .01667 | .18918 | .10953 | .02158 | .00001 | -.00162 | 7.0881 | .00016 |
| #2 | -.00074 | .01622 | .18418 | .10938 | .02086 | .00012 | .00000 | 7.0570 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00344** | **.00819** | **.00092** | **.10579** | **45.043** | **.03533** | **8.6841** | **.00577** | **.06845** |
| Stddev | .00018 | .00003 | .00019 | .00076 | .089 | .00034 | .0139 | .00002 | .00058 |
| %RSD | 5.3529 | .36907 | 20.729 | .71699 | .19685 | .95003 | .16050 | .28790 | .84284 |
| #1 | .00331 | .00817 | .00105 | .10525 | 45.105 | .03509 | 8.6939 | .00576 | .06804 |
| #2 | .00357 | .00821 | .00078 | .10632 | 44.980 | .03556 | 8.6742 | .00578 | .06886 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **188.89** | **.04046** | **.36827** | **-.00065** | **23.930** | **.00053** | **-.00014** | **1.5705** | **.00068** |
| Stddev | .61 | .00023 | .00494 | .00053 | .050 | .00132 | .00069 | .0221 | .00021 |
| %RSD | .32194 | .55966 | 1.3419 | 80.808 | .20854 | 250.50 | 478.75 | 1.4099 | 31.559 |
| #1 | 189.32 | .04030 | .36477 | -.00028 | 23.894 | -.00041 | .00034 | 1.5862 | .00083 |
| #2 | 188.46 | .04062 | .37176 | -.00103 | 23.965 | .00146 | -.00063 | 1.5549 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08598** | **-.00071** | **.00062** | **-.00023** | **.01281** | **.03867** | **.00674** | **.00254** |
| Stddev | .00024 | .00098 | .00038 | .00038 | .02782 | .00092 | .00002 | .00125 |
| %RSD | .28094 | 138.93 | 61.918 | 164.81 | 217.15 | 2.3887 | .34335 | 49.275 |
| #1 | .08615 | -.00001 | .00035 | .00004 | -.00686 | .03801 | .00676 | .00165 |
| #2 | .08581 | -.00140 | .00089 | -.00050 | .03249 | .03932 | .00673 | .00342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6294.9** | **80792.** | **5920.4** |
| Stddev | 15.7 | 1. | 20.3 |
| %RSD | .25012 | .00180 | .34329 |
| #1 | 6306.0 | 80791. | 5906.1 |
| #2 | 6283.7 | 80793. | 5934.8 |

Sample Name: 280-41727-P-5-F MS  Acquired: 5/15/2013 6:13:11  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173891 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.19561** | **.35101** | **1.4174** | **.58772** | **2.1224** | **.00806** | **.31418** | **34.655** | **.19437** |
| Stddev | .00162 | .00106 | .0046 | .00004 | .0139 | .00006 | .00333 | .163 | .00040 |
| %RSD | .82949 | .30119 | .32316 | .00666 | .65571 | .71758 | 1.0602 | .47102 | .20656 |
| #1 | .19676 | .35026 | 1.4142 | .58775 | 2.1126 | .00810 | .31183 | 34.540 | .19465 |
| #2 | .19446 | .35175 | 1.4206 | .58770 | 2.1323 | .00802 | .31654 | 34.771 | .19409 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09460** | **.86901** | **.38234** | **.52656** | W **181.26** | **.28452** | **39.858** | **.10445** | **.41372** |
| Stddev | .00027 | .00073 | .00269 | .00074 | 1.31 | .00147 | .410 | .00082 | .00036 |
| %RSD | .28634 | .08372 | .70287 | .14010 | .72014 | .51820 | 1.0293 | .78248 | .08642 |
| #1 | .09441 | .86850 | .38424 | .52604 | 180.33 | .28556 | 40.148 | .10502 | .41347 |
| #2 | .09479 | .86952 | .38044 | .52709 | 182.18 | .28347 | 39.568 | .10387 | .41397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **724.06** | **.22583** | **3.1011** | **.91679** | **93.658** | **.08928** | **.49330** | **7.6322** | **.31416** |
| Stddev | 2.92 | .00028 | .0062 | .00039 | .057 | .00110 | .00086 | .0056 | .00127 |
| %RSD | .40339 | .12254 | .19825 | .04216 | .06054 | 1.2323 | .17413 | .07286 | .40387 |
| #1 | 722.00 | .22603 | 3.1054 | .91707 | 93.617 | .09006 | .49391 | 7.6282 | .31506 |
| #2 | 726.13 | .22564 | 3.0967 | .91652 | 93.698 | .08850 | .49269 | 7.6361 | .31326 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47493** | **.17184** | **.17379** | **.29278** | **.32157** | **.22800** | **.46147** | **.08254** |
| Stddev | .00247 | .00068 | .00179 | .00010 | .03356 | .00279 | .00335 | .00028 |
| %RSD | .52093 | .39407 | 1.0287 | .03452 | 10.435 | 1.2235 | .72577 | .34114 |
| #1 | .47318 | .17231 | .17506 | .29285 | .34529 | .22997 | .46384 | .08274 |
| #2 | .47668 | .17136 | .17253 | .29271 | .29784 | .22603 | .45910 | .08234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6060.2** | **78251.** | **5798.8** |
| Stddev | 1.0 | 927. | 62.9 |
| %RSD | .01590 | 1.1845 | 1.0843 |
| #1 | 6059.5 | 77595. | 5843.2 |
| #2 | 6060.9 | 78906. | 5754.3 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 6:19:02 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00754** | **50.048** | **-.00078** | **-.00484** | **.00060** | **-.00008** | **1.0006** | **-.00406** | **-.00084** | **.00243** | **.00000** | **-.00163** | **50.504** |
| Stddev | .00050 | .150 | .00067 | .00037 | .00024 | .00008 | .0031 | .00208 | .00018 | .00018 | .00005 | .00018 | .125 |
| %RSD | 6.6380 | .29875 | 85.596 | 7.6294 | 39.819 | 98.769 | .31096 | 51.166 | 21.312 | 7.2353 | 1461.2 | 10.996 | .24830 |
| #1 | .00719 | 50.154 | -.00125 | -.00458 | .00043 | -.00002 | 1.0028 | -.00552 | -.00071 | .00230 | -.00003 | -.00150 | 50.592 |
| #2 | .00790 | 49.942 | -.00031 | -.00510 | .00076 | -.00013 | .99838 | -.00259 | -.00097 | .00255 | .00004 | -.00175 | 50.415 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35968** | **.00557** | **-.01192** | **-.00064** | **-.00237** | **252.89** | **.00129** | **.00385** | **.00152** | **5.1751** | **-.00215** | **.00323** | **.01705** |
| Stddev | .02709 | .00132 | .00079 | .00002 | .00005 | .79 | .00041 | .00047 | .00050 | .0028 | .00044 | .00075 | .00446 |
| %RSD | 7.5317 | 23.639 | 6.5990 | 3.3490 | 1.9078 | .31303 | 31.677 | 12.127 | 33.064 | .05407 | 20.616 | 23.249 | 26.178 |
| #1 | .34053 | .00650 | -.01247 | -.00066 | -.00233 | 253.45 | .00100 | .00418 | .00116 | 5.1731 | -.00246 | .00270 | .02020 |
| #2 | .37884 | .00464 | -.01136 | -.00062 | -.00240 | 252.33 | .00158 | .00352 | .00187 | 5.1770 | -.00184 | .00376 | .01389 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **.00030** | **5.2816** | **.00436** | **-.00296** | **10.051** | **-.00095** | **.00311** | **-.05561** |
| Stddev | .00044 | .00006 | .0010 | .00007 | .00086 | .021 | .00010 | .00005 | .00062 |
| %RSD | 41.210 | 20.276 | .01921 | 1.5697 | 29.222 | .21120 | 10.381 | 1.7147 | 1.1237 |
| #1 | .00138 | .00026 | 5.2809 | .00431 | -.00235 | 10.066 | -.00101 | .00315 | -.05516 |
| #2 | .00076 | .00035 | 5.2823 | .00440 | -.00357 | 10.036 | -.00088 | .00307 | -.05605 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6352.6** | **82181.** | **5916.4** |
| Stddev | 2.0 | 42. | 24.0 |
| %RSD | .03178 | .05074 | .40627 |
| #1 | 6354.0 | 82152. | 5899.4 |
| #2 | 6351.2 | 82211. | 5933.4 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 6:21:30 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54538** | **.47559** | **1.0212** | **.49104** | **.50785** | **.47492** | **.00132** | **5.0617** | **.51997** | **.52327** | **.49368** | **.49991** | **2.4540** | **50.713** |
| Stddev | .00302 | .00170 | .0012 | .00070 | .00051 | .00182 | .00032 | .0113 | .00188 | .00117 | .00059 | .00171 | .0049 | .084 |
| %RSD | .55352 | .35785 | .11721 | .14356 | .10108 | .38343 | 24.604 | .22262 | .36207 | .22426 | .11861 | .34257 | .19942 | .16634 |
| #1 | .54325 | .47679 | 1.0221 | .49154 | .50749 | .47364 | .00109 | 5.0696 | .52130 | .52410 | .49410 | .49870 | 2.4505 | 50.653 |
| #2 | .54752 | .47439 | 1.0204 | .49054 | .50821 | .47621 | .00154 | 5.0537 | .51864 | .52244 | .49327 | .50112 | 2.4574 | 50.772 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0224** | **21.047** | **.53064** | **.48293** | **5.2635** | **.50662** | **.96368** | **1.0356** | **.02147** | **1.0415** | **.98694** | **4.8965** | **.97819** | **.47552** |
| Stddev | .0012 | .055 | .00134 | .00020 | .0071 | .00003 | .00193 | .0001 | .00227 | .0008 | .00077 | .0025 | .00281 | .00009 |
| %RSD | .11240 | .25975 | .25293 | .04039 | .13405 | .00508 | .19996 | .00880 | 10.554 | .07819 | .07788 | .05061 | .28726 | .01951 |
| #1 | 1.0216 | 21.008 | .52969 | .48306 | 5.2685 | .50663 | .96504 | 1.0356 | .02307 | 1.0421 | .98749 | 4.8947 | .98017 | .47546 |
| #2 | 1.0232 | 21.086 | .53159 | .48279 | 5.2585 | .50660 | .96232 | 1.0357 | .01986 | 1.0409 | .98640 | 4.8983 | .97620 | .47559 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00333** | **.52144** | **.98551** | **.01991** | **.50458** | **.53788** | **.50143** |
| Stddev | .00237 | .00135 | .00007 | .01816 | .00142 | .00172 | .00155 |
| %RSD | 71.371 | .25948 | .00739 | 91.192 | .28068 | .31960 | .30890 |
| #1 | .00165 | .52049 | .98546 | .00707 | .50358 | .53666 | .50252 |
| #2 | .00500 | .52240 | .98556 | .03275 | .50558 | .53909 | .50033 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6349.6** | **82083.** | **5874.2** |
| Stddev | 17.4 | 196. | 13.8 |
| %RSD | .27419 | .23899 | .23528 |
| #1 | 6337.3 | 82221. | 5864.4 |
| #2 | 6361.9 | 81944. | 5883.9 |

Sample Name: CCB Acquired: 5/15/2013 6:23:43 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00107** | **.00339** | **-.00144** | F **-.00641** | W **.00080** | **.00003** | **-.00047** | **-.00913** | **.00007** | **.00051** | **.00001** |
| Stddev | .00083 | .00061 | .00040 | .00061 | .00031 | .00001 | .00029 | .00013 | .00023 | .00012 | .00008 |
| %RSD | 77.841 | 17.866 | 27.956 | 9.4916 | 38.327 | 36.945 | 61.727 | 1.4005 | 343.68 | 24.138 | 616.87 |
| #1 | .00048 | .00382 | -.00172 | -.00598 | .00058 | .00004 | -.00068 | -.00922 | -.00009 | .00059 | -.00005 |
| #2 | .00166 | .00296 | -.00115 | -.00683 | .00101 | .00003 | -.00027 | -.00904 | .00023 | .00042 | .00007 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00072** | **.00218** | **.17644** | F **.00545** | **.00205** | **.00007** | **-.00016** | F **.38177** | **-.00022** | **-.00539** | **-.00037** |
| Stddev | .00030 | .00181 | .04857 | .00017 | .00264 | .00002 | .00021 | .01189 | .00005 | .00001 | .00038 |
| %RSD | 41.860 | 82.909 | 27.530 | 3.1938 | 129.00 | 34.624 | 128.37 | 3.1153 | 22.216 | .19050 | 103.93 |
| #1 | -.00093 | .00346 | .14209 | .00532 | .00018 | .00005 | -.00001 | .39018 | -.00019 | -.00539 | -.00010 |
| #2 | -.00051 | .00090 | .21079 | .00557 | .00392 | .00009 | -.00031 | .37336 | -.00026 | -.00540 | -.00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | | |
| Low Limit | | | | -.00522 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02232** | **-.00040** | **-.00113** | **.01404** | **.00045** | **.00007** | **.00034** | **-.00009** | **-.00101** | **.01745** | **-.00009** |
| Stddev | .00141 | .00143 | .00579 | .00372 | .00055 | .00002 | .00146 | .00048 | .00026 | .00323 | .00011 |
| %RSD | 6.3145 | 353.42 | 510.18 | 26.458 | 121.10 | 26.023 | 424.43 | 553.88 | 25.696 | 18.480 | 122.36 |
| #1 | .02332 | .00061 | .00296 | .01141 | .00006 | .00008 | -.00069 | .00025 | -.00083 | .01517 | -.00017 |
| #2 | .02133 | -.00141 | -.00523 | .01667 | .00084 | .00006 | .00137 | -.00042 | -.00119 | .01973 | -.00001 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00305** | **.00066** |
| Stddev | .00011 | .00167 |
| %RSD | 3.5717 | 254.15 |
| #1 | .00298 | .00184 |
| #2 | .00313 | -.00052 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6442.9** | **83740.** | **5955.1** |
| Stddev | .7 | 172. | 52.6 |
| %RSD | .01071 | .20593 | .88253 |
| #1 | 6442.4 | 83618. | 5918.0 |
| #2 | 6443.3 | 83862. | 5992.3 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 6:26:13 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01146** | **.09341** | **.01436** | **.08530** | **.01098** | **.00089** | **.10142** | **.20188** | **.00499** | **.01066** | **.00995** |
| Stddev | .00006 | .00003 | .00041 | .00033 | .00029 | .00000 | .00154 | .00282 | .00011 | .00016 | .00013 |
| %RSD | .49463 | .03282 | 2.8630 | .39241 | 2.6400 | .41730 | 1.5204 | 1.3954 | 2.2292 | 1.4562 | 1.3318 |
| #1 | .01142 | .09339 | .01465 | .08507 | .01119 | .00089 | .10033 | .20388 | .00491 | .01055 | .01005 |
| #2 | .01150 | .09343 | .01407 | .08554 | .01078 | .00089 | .10252 | .19989 | .00507 | .01077 | .00986 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01402** | **.10656** | **3.1419** | F **.01561** | **.21060** | **.01066** | **.01841** | F **1.3399** | **.04034** | **2.7374** | **.01056** |
| Stddev | .00020 | .00214 | .0034 | .00205 | .00102 | .00005 | .00010 | .0150 | .00007 | .0113 | .00026 |
| %RSD | 1.4140 | 2.0101 | .10965 | 13.108 | .48657 | .45405 | .56436 | 1.1199 | .17324 | .41300 | 2.4173 |
| #1 | .01416 | .10504 | 3.1395 | .01416 | .20988 | .01069 | .01834 | 1.3293 | .04029 | 2.7294 | .01038 |
| #2 | .01388 | .10807 | 3.1444 | .01705 | .21133 | .01062 | .01849 | 1.3506 | .04039 | 2.7453 | .01074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01236** | **.00935** | **.01306** | **.48570** | **.09493** | **.00960** | **.01701** | **.00991** | **.01307** | **.07044** | **.01001** |
| Stddev | .00325 | .00086 | .00259 | .00427 | .00076 | .00004 | .00115 | .00042 | .00133 | .03081 | .00048 |
| %RSD | 26.274 | 9.2107 | 19.816 | .87916 | .80382 | .42376 | 6.7444 | 4.2683 | 10.188 | 43.732 | 4.8210 |
| #1 | .01466 | .00995 | .01489 | .48268 | .09439 | .00963 | .01620 | .01020 | .01401 | .04866 | .01035 |
| #2 | .01006 | .00874 | .01123 | .48872 | .09547 | .00957 | .01783 | .00961 | .01212 | .09222 | .00966 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02402** | **.01477** |
| Stddev | .00010 | .00009 |
| %RSD | .39817 | .62897 |
| #1 | .02395 | .01484 |
| #2 | .02409 | .01471 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6536.9** | **84809.** | **5967.1** |
| Stddev | .4 | 12. | 24.3 |
| %RSD | .00561 | .01467 | .40675 |
| #1 | 6537.1 | 84818. | 5950.0 |
| #2 | 6536.6 | 84800. | 5984.3 |

Sample Name: LB3 280-173219/1-C Acquired: 5/15/2013 6:28:37 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173893 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00618** | **.00022** | **.00204** | **.00072** | **.00005** | **-.00228** | W **.18993** | **-.00010** |
| Stddev | .00006 | .00013 | .00100 | .00015 | .00048 | .00007 | .00112 | .00057 | .00007 |
| %RSD | 48.693 | 2.1029 | 444.69 | 7.3046 | 66.717 | 145.83 | 49.267 | .30052 | 66.210 |
| #1 | .00016 | .00627 | .00093 | .00215 | .00106 | -.00000 | -.00148 | .19033 | -.00014 |
| #2 | .00008 | .00609 | -.00048 | .00194 | .00038 | .00010 | -.00307 | .18953 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | .10000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00001** | **-.00004** | F **.11370** | **.07768** | **.00437** | **.02098** | **.00083** | **-.00007** |
| Stddev | .00027 | .00009 | .00038 | .00089 | .02958 | .00192 | .00107 | .00005 | .00025 |
| %RSD | 103.51 | 1082.9 | 907.25 | .77848 | 38.082 | 43.863 | 5.0926 | 5.7450 | 385.93 |
| #1 | .00046 | .00007 | -.00031 | .11433 | .09860 | .00573 | .02022 | .00086 | .00011 |
| #2 | .00007 | -.00006 | .00023 | .11308 | .05676 | .00302 | .02174 | .00079 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .10000 | | | | | |
| Low Limit | | | | -.10000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.3398** | **.00009** | F **.22318** | **-.00129** | **.01854** | **.00064** | **-.00210** | F **.15137** | **-.00021** |
| Stddev | .0227 | .00024 | .00022 | .00030 | .00004 | .00142 | .00116 | .00031 | .00043 |
| %RSD | .96957 | 257.05 | .09665 | 22.897 | .20752 | 221.67 | 55.541 | .20363 | 203.98 |
| #1 | 2.3558 | -.00008 | .22333 | -.00150 | .01856 | -.00036 | -.00127 | .15158 | .00009 |
| #2 | 2.3238 | .00026 | .22302 | -.00108 | .01851 | .00164 | -.00292 | .15115 | -.00051 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 1.0000 | | .01000 | | | | | .10000 | |
| Low Limit | -1.0000 | | -.01000 | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00017** | **.00046** | **-.00059** | **.02943** | **.00005** | **.00311** | **.00122** |
| Stddev | .00017 | .00185 | .00011 | .00036 | .01824 | .00037 | .00010 | .00010 |
| %RSD | 70.188 | 1101.6 | 23.132 | 60.057 | 61.981 | 807.55 | 3.2182 | 7.7975 |
| #1 | .00012 | .00148 | .00054 | -.00034 | .01653 | .00031 | .00304 | .00129 |
| #2 | .00037 | -.00114 | .00038 | -.00085 | .04232 | -.00022 | .00318 | .00115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6552.4** | **85298.** | **6034.6** |
| Stddev | .2 | 47. | 63.1 |
| %RSD | .00259 | .05502 | 1.0452 |
| #1 | 6552.5 | 85265. | 5990.0 |
| #2 | 6552.2 | 85332. | 6079.2 |

Sample Name: LCS 280-173219/2-C Acquired: 5/15/2013 6:31:08 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173893 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23479** | **.38680** | **.81383** | **.19719** | **2.5607** | **.00967** | **.41674** | **10.438** | **.23426** |
| Stddev | .00063 | .00090 | .00129 | .00003 | .0082 | .00004 | .00005 | .038 | .00021 |
| %RSD | .26838 | .23383 | .15804 | .01300 | .32190 | .39719 | .01310 | .36625 | .08830 |
| #1 | .23524 | .38744 | .81292 | .19721 | 2.5549 | .00970 | .41670 | 10.411 | .23411 |
| #2 | .23435 | .38616 | .81474 | .19718 | 2.5665 | .00965 | .41678 | 10.465 | .23441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10581** | **1.0476** | **.45760** | **.20537** | **10.484** | **.21628** | **10.488** | **.10589** | **.19300** |
| Stddev | .00043 | .0020 | .00172 | .00204 | .096 | .00012 | .007 | .00022 | .00008 |
| %RSD | .40968 | .18733 | .37478 | .99508 | .91362 | .05344 | .06914 | .21180 | .04078 |
| #1 | .10551 | 1.0490 | .45639 | .20682 | 10.416 | .21620 | 10.494 | .10604 | .19306 |
| #2 | .10612 | 1.0462 | .45882 | .20393 | 10.552 | .21636 | 10.483 | .10573 | .19294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **12.696** | **.10095** | **2.1421** | **1.1672** | **.01478** | **.10558** | **.58945** | F **2.1135** | **.38991** |
| Stddev | .503 | .00005 | .0015 | .0006 | .00099 | .00210 | .00148 | .0318 | .00161 |
| %RSD | 3.9646 | .04554 | .06990 | .04765 | 6.7006 | 1.9846 | .25188 | 1.5059 | .41206 |
| #1 | 12.340 | .10092 | 2.1410 | 1.1668 | .01548 | .10409 | .59050 | 2.1360 | .38877 |
| #2 | 13.052 | .10098 | 2.1431 | 1.1675 | .01408 | .10706 | .58840 | 2.0910 | .39105 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 12.000 | | | | | | | .48000 | |
| Low Limit | 8.0000 | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19523** | **.21363** | **.20792** | **.39614** | **.44178** | **.10148** | **.53981** | **.09769** |
| Stddev | .00003 | .00132 | .00018 | .00113 | .01672 | .00034 | .00192 | .00120 |
| %RSD | .01459 | .61851 | .08565 | .28606 | 3.7838 | .33925 | .35531 | 1.2285 |
| #1 | .19521 | .21456 | .20779 | .39534 | .42996 | .10123 | .54116 | .09854 |
| #2 | .19525 | .21269 | .20804 | .39694 | .45361 | .10172 | .53845 | .09684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6490.9** | **84380.** | **5959.3** |
| Stddev | 8.4 | 311. | 6.3 |
| %RSD | .12921 | .36833 | .10524 |
| #1 | 6496.8 | 84160. | 5963.7 |
| #2 | 6485.0 | 84600. | 5954.9 |

Sample Name: 280-41936-A-1-E Acquired: 5/15/2013 6:33:27 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173893 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **.21711** | **.01008** | **.03807** | **.00355** | **-.00005** | **-.00465** | **6.1920** | **.00988** |
| Stddev | .00004 | .00077 | .00115 | .00029 | .00002 | .00003 | .00166 | .0187 | .00010 |
| %RSD | 3.6380 | .35592 | 11.424 | .77464 | .43691 | 70.419 | 35.653 | .30224 | .96879 |
| #1 | .00120 | .21657 | .00926 | .03786 | .00353 | -.00007 | -.00347 | 6.1788 | .00981 |
| #2 | .00114 | .21766 | .01089 | .03828 | .00356 | -.00002 | -.00582 | 6.2052 | .00995 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00873** | **.00767** | **.13422** | **.16174** | **23.973** | **.00662** | **.11970** | **.00700** | **.00683** |
| Stddev | .00007 | .00003 | .00077 | .00043 | .059 | .00195 | .00074 | .00002 | .00027 |
| %RSD | .80110 | .36462 | .57345 | .26375 | .24470 | 29.429 | .61975 | .30265 | 3.9934 |
| #1 | .00868 | .00765 | .13368 | .16144 | 23.932 | .00799 | .11918 | .00701 | .00663 |
| #2 | .00878 | .00769 | .13477 | .16204 | 24.015 | .00524 | .12023 | .00698 | .00702 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **320.28** | **.02895** | **26.043** | **.01046** | **13.187** | **.00615** | **.00379** | **34.626** | **.00288** |
| Stddev | .95 | .00034 | .055 | .00027 | .055 | .00252 | .00318 | .073 | .00001 |
| %RSD | .29548 | 1.1761 | .20957 | 2.5614 | .41570 | 40.913 | 83.733 | .21045 | .47683 |
| #1 | 319.62 | .02871 | 26.005 | .01027 | 13.148 | .00793 | .00604 | 34.575 | .00289 |
| #2 | 320.95 | .02919 | 26.082 | .01065 | 13.226 | .00437 | .00155 | 34.678 | .00287 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00886** | **-.00063** | **.00540** | **-.00098** | **.02433** | **.00437** | **.77116** | **.00080** |
| Stddev | .00000 | .00076 | .00017 | .00153 | .01502 | .00043 | .00159 | .00033 |
| %RSD | .02275 | 120.43 | 3.1172 | 156.11 | 61.723 | 9.8440 | .20600 | 40.544 |
| #1 | .00886 | -.00009 | .00528 | -.00207 | .01371 | .00467 | .77003 | .00057 |
| #2 | .00886 | -.00116 | .00552 | .00010 | .03495 | .00406 | .77228 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6353.5** | **82766.** | **6084.0** |
| Stddev | 3.2 | 166. | 25.6 |
| %RSD | .05041 | .20047 | .42056 |
| #1 | 6355.8 | 82649. | 6102.1 |
| #2 | 6351.2 | 82884. | 6065.9 |

Sample Name: sd 280-41936-A-1-E@5 Acquired: 5/15/2013 6:35:56 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173893 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.04040** | **.00354** | **.00080** | **.00099** | **-.00006** | **-.00215** | **1.1930** | **.00189** |
| Stddev | .00041 | .00047 | .00016 | .00045 | .00021 | .00008 | .00005 | .0056 | .00022 |
| %RSD | 48.736 | 1.1721 | 4.5551 | 56.197 | 21.057 | 120.38 | 2.5250 | .46507 | 11.836 |
| #1 | .00113 | .04006 | .00365 | .00048 | .00084 | -.00012 | -.00211 | 1.1969 | .00173 |
| #2 | .00055 | .04073 | .00343 | .00112 | .00114 | -.00001 | -.00219 | 1.1891 | .00205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00194** | **.00150** | **.02506** | **.03770** | **4.6481** | **.00663** | **.02207** | **.00137** | **.00131** |
| Stddev | .00013 | .00000 | .00016 | .00000 | .0104 | .00095 | .00022 | .00009 | .00015 |
| %RSD | 6.8842 | .32752 | .62347 | .00756 | .22386 | 14.344 | 1.0110 | 6.5856 | 11.240 |
| #1 | .00185 | .00150 | .02517 | .03770 | 4.6407 | .00731 | .02223 | .00143 | .00121 |
| #2 | .00204 | .00150 | .02495 | .03770 | 4.6554 | .00596 | .02191 | .00130 | .00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **62.656** | **.00561** | **4.9863** | **.00173** | **2.4881** | **.00069** | **-.00188** | **6.5836** | **.00029** |
| Stddev | .309 | .00006 | .0199 | .00178 | .0056 | .00032 | .00012 | .0067 | .00042 |
| %RSD | .49298 | 1.1101 | .39917 | 103.36 | .22666 | 45.916 | 6.1235 | .10164 | 146.08 |
| #1 | 62.437 | .00566 | 4.9722 | .00046 | 2.4841 | .00092 | -.00180 | 6.5883 | -.00001 |
| #2 | 62.874 | .00557 | 5.0003 | .00299 | 2.4921 | .00047 | -.00196 | 6.5789 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00177** | **-.00116** | **.00080** | **-.00124** | **-.00752** | **.00069** | **.14654** | **-.00028** |
| Stddev | .00012 | .00120 | .00018 | .00157 | .02842 | .00107 | .00051 | .00187 |
| %RSD | 6.8827 | 103.69 | 22.897 | 126.94 | 378.06 | 156.43 | .35134 | 661.43 |
| #1 | .00186 | -.00201 | .00067 | -.00013 | .01258 | .00145 | .14690 | -.00160 |
| #2 | .00168 | -.00031 | .00093 | -.00235 | -.02761 | -.00007 | .14617 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6592.7** | **86697.** | **6163.6** |
| Stddev | 5.4 | 330. | 20.4 |
| %RSD | .08174 | .38093 | .33032 |
| #1 | 6596.5 | 86463. | 6149.2 |
| #2 | 6588.9 | 86930. | 6178.0 |

Sample Name: 280-41936-A-1-F MS  Acquired: 5/15/2013 6:38:23  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173893 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.23780** | **.57402** | **.84913** | **.22912** | **2.5346** | **.00974** | **.40599** | **16.208** | **.24890** |
| Stddev | .00190 | .00350 | .00014 | .00009 | .0127 | .00003 | .00105 | .086 | .00069 |
| %RSD | .79711 | .61036 | .01631 | .03899 | .50259 | .25814 | .25764 | .52875 | .27735 |
| #1 | .23914 | .57154 | .84923 | .22906 | 2.5436 | .00976 | .40673 | 16.268 | .24841 |
| #2 | .23646 | .57649 | .84903 | .22919 | 2.5256 | .00972 | .40525 | 16.147 | .24939 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11380** | **1.0403** | **.60676** | **.31110** | **34.374** | **.21307** | **10.266** | **.11169** | **.19578** |
| Stddev | .00016 | .0030 | .00308 | .00143 | .219 | .00020 | .047 | .00036 | .00073 |
| %RSD | .14219 | .29121 | .50814 | .45816 | .63746 | .09380 | .45894 | .31963 | .37456 |
| #1 | .11369 | 1.0381 | .60894 | .31009 | 34.529 | .21321 | 10.299 | .11195 | .19526 |
| #2 | .11392 | 1.0424 | .60458 | .31211 | 34.219 | .21293 | 10.233 | .11144 | .19630 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **332.11** | **.12886** | **28.048** | **1.1534** | **13.125** | **.10899** | **.60488** | **35.806** | **.36383** |
| Stddev | 1.45 | .00066 | .071 | .0037 | .036 | .00111 | .00031 | .140 | .00257 |
| %RSD | .43719 | .50977 | .25461 | .32497 | .27613 | 1.0179 | .05124 | .39226 | .70597 |
| #1 | 333.13 | .12839 | 27.997 | 1.1508 | 13.100 | .10820 | .60466 | 35.905 | .36202 |
| #2 | 331.08 | .12932 | 28.098 | 1.1561 | 13.151 | .10977 | .60510 | 35.707 | .36565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20188** | **.11018** | **.20572** | **.11245** | **.42710** | **.10575** | **1.2908** | **.05306** |
| Stddev | .00160 | .00168 | .00067 | .00095 | .00637 | .00020 | .0079 | .00055 |
| %RSD | .79241 | 1.5217 | .32532 | .84700 | 1.4914 | .18787 | .61127 | 1.0420 |
| #1 | .20302 | .11137 | .20619 | .11312 | .43161 | .10589 | 1.2964 | .05267 |
| #2 | .20075 | .10900 | .20524 | .11178 | .42260 | .10561 | 1.2853 | .05345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6345.4** | **82671.** | **6045.6** |
| Stddev | 18.7 | 42. | 41.8 |
| %RSD | .29490 | .05128 | .69073 |
| #1 | 6358.6 | 82641. | 6016.1 |
| #2 | 6332.1 | 82701. | 6075.2 |

Sample Name: 280-41936-A-1-G MSD  Acquired: 5/15/2013 6:40:46  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173893 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.22308** | **.52886** | **.78131** | **.21247** | **2.3205** | **.00881** | **.38537** | **14.860** | **.23124** |
| Stddev | .00112 | .00048 | .00353 | .00231 | .0075 | .00001 | .00270 | .063 | .00224 |
| %RSD | .50251 | .09087 | .45218 | 1.0879 | .32271 | .06062 | .69954 | .42381 | .97005 |
| #1 | .22229 | .52920 | .78381 | .21410 | 2.3152 | .00881 | .38728 | 14.815 | .23283 |
| #2 | .22387 | .52852 | .77881 | .21083 | 2.3258 | .00881 | .38347 | 14.905 | .22966 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10469** | **.95437** | **.55862** | **.28922** | **31.542** | **.19690** | **9.4487** | **.10254** | **.18003** |
| Stddev | .00107 | .00238 | .00094 | .00346 | .128 | .00060 | .0055 | .00034 | .00143 |
| %RSD | 1.0232 | .24956 | .16803 | 1.1960 | .40488 | .30351 | .05812 | .32892 | .79176 |
| #1 | .10545 | .95605 | .55795 | .29167 | 31.452 | .19733 | 9.4448 | .10230 | .18104 |
| #2 | .10393 | .95268 | .55928 | .28678 | 31.633 | .19648 | 9.4526 | .10278 | .17903 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **305.60** | **.11893** | **25.698** | **1.0728** | **12.288** | **.10158** | **.55968** | **33.341** | **.33777** |
| Stddev | .48 | .00058 | .061 | .0041 | .081 | .00124 | .00257 | .129 | .00259 |
| %RSD | .15612 | .48999 | .23745 | .38614 | .65869 | 1.2252 | .45860 | .38645 | .76694 |
| #1 | 305.26 | .11934 | 25.741 | 1.0757 | 12.345 | .10246 | .56150 | 33.250 | .33960 |
| #2 | 305.94 | .11851 | 25.655 | 1.0698 | 12.231 | .10070 | .55787 | 33.432 | .33593 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18460** | **.10122** | **.18990** | **.11664** | **.39209** | **.09675** | **1.1907** | **.04742** |
| Stddev | .00021 | .00210 | .00119 | .00095 | .00226 | .00046 | .0008 | .00037 |
| %RSD | .11423 | 2.0764 | .62706 | .81726 | .57745 | .47574 | .07019 | .78082 |
| #1 | .18445 | .10271 | .18906 | .11731 | .39369 | .09643 | 1.1901 | .04715 |
| #2 | .18474 | .09974 | .19075 | .11596 | .39049 | .09708 | 1.1913 | .04768 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6327.2** | **82402.** | **6039.7** |
| Stddev | 9.3 | 352. | 15.2 |
| %RSD | .14639 | .42684 | .25142 |
| #1 | 6320.7 | 82650. | 6050.5 |
| #2 | 6333.8 | 82153. | 6029.0 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 6:43:09 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00777** | **51.255** | **.00095** | **-.00563** | **.00148** | **.00003** | **1.0297** | **.00055** | **-.00069** | **.00246** | **-.00000** | **-.00096** | **52.045** |
| Stddev | .00024 | .003 | .00106 | .00079 | .00032 | .00010 | .0049 | .00431 | .00018 | .00015 | .00009 | .00013 | .062 |
| %RSD | 3.0578 | .00679 | 112.54 | 13.951 | 21.699 | 362.27 | .47540 | 783.81 | 25.483 | 5.9794 | 4843.7 | 13.482 | .11925 |
| #1 | .00794 | 51.257 | .00019 | -.00508 | .00171 | -.00004 | 1.0263 | .00360 | -.00081 | .00236 | .00006 | -.00087 | 52.089 |
| #2 | .00760 | 51.252 | .00170 | -.00619 | .00125 | .00010 | 1.0332 | -.00250 | -.00056 | .00257 | -.00007 | -.00105 | 52.001 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15185** | **.00623** | **-.00830** | **-.00060** | **-.00196** | **260.43** | **.00119** | **.02821** | **.00028** | **5.3456** | **-.00011** | **.00418** | **.02547** |
| Stddev | .03271 | .00045 | .00362 | .00003 | .00001 | .10 | .00027 | .00341 | .00128 | .0295 | .00138 | .00056 | .00059 |
| %RSD | 21.541 | 7.2633 | 43.568 | 4.9206 | .53990 | .03760 | 23.024 | 12.097 | 461.61 | .55181 | 1231.9 | 13.355 | 2.3222 |
| #1 | .12872 | .00655 | -.00574 | -.00058 | -.00195 | 260.50 | .00100 | .02580 | -.00063 | 5.3247 | -.00109 | .00379 | .02589 |
| #2 | .17498 | .00591 | -.01086 | -.00062 | -.00197 | 260.36 | .00139 | .03063 | .00119 | 5.3664 | .00087 | .00458 | .02505 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00029** | **5.4089** | **.00431** | **-.00159** | **10.235** | **-.00080** | **.00448** | **-.05556** |
| Stddev | .00052 | .00001 | .0040 | .00019 | .00068 | .002 | .00038 | .00021 | .00177 |
| %RSD | 72.260 | 2.7974 | .07484 | 4.5235 | 43.151 | .02154 | 47.348 | 4.6989 | 3.1871 |
| #1 | .00109 | .00030 | 5.4117 | .00444 | -.00207 | 10.234 | -.00054 | .00433 | -.05431 |
| #2 | .00035 | .00028 | 5.4060 | .00417 | -.00110 | 10.237 | -.00107 | .00463 | -.05681 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6367.9** | **82036.** | **5941.5** |
| Stddev | 5.3 | 68. | 13.2 |
| %RSD | .08288 | .08288 | .22178 |
| #1 | 6371.7 | 81988. | 5950.8 |
| #2 | 6364.2 | 82084. | 5932.2 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 6:45:38 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53597** | **.47211** | **1.0006** | **.48371** | **.50171** | **.47092** | **.00246** | **5.0220** | **.51148** | **.51517** | **.48677** | **.49434** | **2.4137** | **50.216** |
| Stddev | .00149 | .00071 | .0035 | .00095 | .00053 | .00025 | .00077 | .0128 | .00120 | .00096 | .00085 | .00113 | .0063 | .233 |
| %RSD | .27722 | .15124 | .35109 | .19599 | .10627 | .05409 | 31.259 | .25529 | .23428 | .18560 | .17541 | .22849 | .26127 | .46469 |
| #1 | .53492 | .47262 | .99809 | .48438 | .50209 | .47074 | .00300 | 5.0129 | .51233 | .51585 | .48737 | .49354 | 2.4093 | 50.381 |
| #2 | .53702 | .47161 | 1.0031 | .48304 | .50134 | .47110 | .00192 | 5.0310 | .51064 | .51450 | .48617 | .49514 | 2.4182 | 50.051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0112** | **20.821** | **.52440** | **.47575** | **5.1316** | **.49788** | **.95649** | **1.0203** | **.01579** | **1.0252** | **.97083** | **4.8352** | **.96554** | **.47043** |
| Stddev | .0015 | .020 | .00006 | .00186 | .0380 | .00108 | .00131 | .0020 | .00273 | .0037 | .00150 | .0050 | .00153 | .00123 |
| %RSD | .14576 | .09769 | .01081 | .39055 | .73976 | .21706 | .13697 | .20013 | 17.277 | .35759 | .15469 | .10309 | .15886 | .26090 |
| #1 | 1.0102 | 20.835 | .52444 | .47706 | 5.1584 | .49864 | .95741 | 1.0217 | .01772 | 1.0278 | .97189 | 4.8317 | .96663 | .47130 |
| #2 | 1.0122 | 20.807 | .52436 | .47443 | 5.1048 | .49712 | .95556 | 1.0188 | .01386 | 1.0226 | .96977 | 4.8387 | .96446 | .46956 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01112** | **.51488** | **.97256** | **.02532** | **.49919** | **.53319** | **.49580** |
| Stddev | .00015 | .00128 | .00478 | .00904 | .00041 | .00068 | .00109 |
| %RSD | 1.3794 | .24810 | .49158 | 35.683 | .08276 | .12787 | .21999 |
| #1 | .01101 | .51397 | .97594 | .01893 | .49890 | .53367 | .49503 |
| #2 | .01123 | .51578 | .96918 | .03171 | .49948 | .53271 | .49657 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6402.8** | **82480.** | **5888.0** |
| Stddev | 20.1 | 318. | 24.9 |
| %RSD | .31381 | .38596 | .42311 |
| #1 | 6388.6 | 82255. | 5870.3 |
| #2 | 6417.1 | 82705. | 5905.6 |

Sample Name: CCB Acquired: 5/15/2013 6:47:53 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **-.00008** | **-.00045** | F **-.00683** | W **.00071** | **.00003** | **.00018** | **-.01109** | **-.00000** | **.00029** | **.00014** |
| Stddev | .00009 | .00015 | .00303 | .00064 | .00031 | .00008 | .00093 | .00018 | .00009 | .00015 | .00008 |
| %RSD | 16.895 | 176.77 | 667.97 | 9.3971 | 44.365 | 298.57 | 529.64 | 1.6665 | 3200.7 | 51.304 | 59.242 |
| #1 | .00057 | .00002 | .00169 | -.00637 | .00049 | -.00003 | -.00048 | -.01096 | -.00007 | .00019 | .00020 |
| #2 | .00045 | -.00019 | -.00260 | -.00728 | .00093 | .00008 | .00084 | -.01122 | .00006 | .00040 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.00190** | **.02199** | W **.00443** | **-.00156** | **.00002** | **.00004** | F **.30421** | **-.00022** | **-.00351** | **.00112** |
| Stddev | .00039 | .00067 | .00731 | .00041 | .00427 | .00002 | .00005 | .01270 | .00023 | .00289 | .00014 |
| %RSD | 86.843 | 35.376 | 33.226 | 9.1501 | 273.00 | 160.98 | 124.53 | 4.1741 | 107.46 | 82.326 | 12.536 |
| #1 | -.00017 | .00238 | .02716 | .00472 | -.00458 | -.00000 | .00000 | .31319 | -.00005 | -.00556 | .00122 |
| #2 | -.00073 | .00143 | .01683 | .00414 | .00145 | .00003 | .00007 | .29523 | -.00038 | -.00147 | .00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01073** | **-.00200** | **.00104** | **.00662** | **-.00048** | **.00000** | **.00267** | **.00023** | **-.00174** | **.00676** | **.00002** |
| Stddev | .00164 | .00039 | .00129 | .00377 | .00033 | .00012 | .00217 | .00062 | .00076 | .00057 | .00048 |
| %RSD | 15.279 | 19.496 | 123.56 | 56.983 | 67.455 | 2425.6 | 81.306 | 267.92 | 43.934 | 8.4223 | 2075.7 |
| #1 | .00957 | -.00228 | .00196 | .00928 | -.00071 | .00009 | .00421 | .00067 | -.00120 | .00636 | .00036 |
| #2 | .01189 | -.00173 | .00013 | .00395 | -.00025 | -.00008 | .00114 | -.00021 | -.00228 | .00717 | -.00031 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00297** | **-.00082** |
| Stddev | .00002 | .00113 |
| %RSD | .55804 | 137.49 |
| #1 | .00298 | -.00161 |
| #2 | .00295 | -.00002 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6436.3** | **81715.** | **5772.4** |
| Stddev | 41.1 | 126. | 1.2 |
| %RSD | .63875 | .15391 | .02029 |
| #1 | 6407.2 | 81626. | 5771.6 |
| #2 | 6465.4 | 81804. | 5773.2 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 6:50:23 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01145** | **.09892** | **.01670** | **.09183** | **.01100** | **.00093** | **.10949** | **.20318** | **.00530** | **.01147** | **.01026** |
| Stddev | .00073 | .00058 | .00095 | .00072 | .00051 | .00001 | .00143 | .00120 | .00036 | .00022 | .00007 |
| %RSD | 6.3811 | .58819 | 5.7173 | .78590 | 4.6677 | .99902 | 1.3084 | .58998 | 6.8295 | 1.9232 | .67463 |
| #1 | .01094 | .09933 | .01737 | .09132 | .01064 | .00092 | .10847 | .20233 | .00505 | .01162 | .01031 |
| #2 | .01197 | .09851 | .01602 | .09234 | .01136 | .00093 | .11050 | .20402 | .00556 | .01131 | .01022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01500** | **.10834** | **3.2547** | F **.01758** | **.22236** | **.01122** | **.01936** | W **1.2878** | **.04233** | **2.9260** | **.00956** |
| Stddev | .00012 | .00012 | .0327 | .00109 | .00085 | .00003 | .00005 | .0022 | .00009 | .0014 | .00020 |
| %RSD | .80815 | .10841 | 1.0048 | 6.2137 | .38080 | .23687 | .27405 | .16897 | .22315 | .04727 | 2.0904 |
| #1 | .01508 | .10826 | 3.2316 | .01836 | .22177 | .01124 | .01940 | 1.2894 | .04226 | 2.9250 | .00942 |
| #2 | .01491 | .10843 | 3.2778 | .01681 | .22296 | .01120 | .01932 | 1.2863 | .04239 | 2.9269 | .00970 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00914** | **.00973** | **.01229** | **.51263** | **.10087** | **.00995** | **.01764** | **.01064** | **.01451** | F **.07830** | **.00998** |
| Stddev | .00016 | .00173 | .00032 | .00740 | .00076 | .00018 | .00087 | .00012 | .00128 | .00555 | .00021 |
| %RSD | 1.7601 | 17.798 | 2.5687 | 1.4428 | .75306 | 1.7639 | 4.9041 | 1.1048 | 8.8266 | 7.0833 | 2.0827 |
| #1 | .00903 | .01095 | .01252 | .51786 | .10141 | .00983 | .01826 | .01056 | .01541 | .08222 | .00983 |
| #2 | .00926 | .00850 | .01207 | .50740 | .10034 | .01008 | .01703 | .01072 | .01360 | .07438 | .01012 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02489** | **.01565** |
| Stddev | .00015 | .00252 |
| %RSD | .60488 | 16.094 |
| #1 | .02479 | .01743 |
| #2 | .02500 | .01387 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6565.3** | **84954.** | **6005.3** |
| Stddev | 13.8 | 81. | 21.4 |
| %RSD | .21003 | .09493 | .35626 |
| #1 | 6575.1 | 85011. | 5990.1 |
| #2 | 6555.6 | 84897. | 6020.4 |

Sample Name: MB 280-173681/1-A Acquired: 5/15/2013 6:52:48 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00152** | **.00005** | W **-.00683** | **.00050** | **.00003** | **-.00079** | **-.00036** | **.00006** |
| Stddev | .00002 | .00027 | .00106 | .00017 | .00005 | .00005 | .00267 | .00358 | .00003 |
| %RSD | 8.4272 | 17.907 | 2213.2 | 2.4580 | 9.7867 | 180.51 | 338.21 | 984.11 | 60.211 |
| #1 | .00026 | .00133 | .00080 | -.00671 | .00054 | -.00001 | .00110 | -.00289 | .00008 |
| #2 | .00029 | .00171 | -.00070 | -.00695 | .00047 | .00007 | -.00268 | .00216 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **-.00015** | **-.00062** | **.01414** | **-.01761** | W **.00508** | **.00209** | **.00003** | **.00005** |
| Stddev | .00008 | .00026 | .00026 | .00044 | .04144 | .00049 | .00328 | .00003 | .00013 |
| %RSD | 33.948 | 176.58 | 42.274 | 3.1298 | 235.33 | 9.5545 | 156.62 | 100.96 | 253.26 |
| #1 | .00028 | -.00033 | -.00080 | .01383 | .01169 | .00474 | .00441 | .00001 | -.00004 |
| #2 | .00017 | .00004 | -.00043 | .01445 | -.04691 | .00542 | -.00022 | .00005 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00500 | | | |
| Low Limit | | | | | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23597** | **.00002** | F **.19493** | **-.00019** | **.00870** | **-.00077** | **-.00132** | **.02777** | **-.00074** |
| Stddev | .01728 | .00031 | .00221 | .00029 | .00038 | .00119 | .00059 | .00334 | .00095 |
| %RSD | 7.3223 | 1357.9 | 1.1353 | 149.99 | 4.3748 | 154.39 | 44.770 | 12.021 | 127.83 |
| #1 | .22375 | .00024 | .19649 | .00001 | .00897 | .00007 | -.00174 | .03013 | -.00141 |
| #2 | .24819 | -.00020 | .19336 | -.00039 | .00843 | -.00161 | -.00090 | .02541 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00093** | **-.00026** | **-.00052** | **-.01577** | **-.00011** | **.00256** | **.00001** |
| Stddev | .00005 | .00091 | .00005 | .00041 | .04271 | .00096 | .00032 | .00329 |
| %RSD | 303.38 | 97.540 | 18.034 | 79.226 | 270.80 | 860.61 | 12.503 | 25859. |
| #1 | -.00002 | .00029 | -.00023 | -.00081 | .01443 | -.00079 | .00278 | -.00231 |
| #2 | .00005 | .00157 | -.00030 | -.00023 | -.04598 | .00057 | .00233 | .00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6565.1** | **85075.** | **5995.9** |
| Stddev | 5.6 | 32. | 36.2 |
| %RSD | .08545 | .03761 | .60329 |
| #1 | 6569.0 | 85098. | 5970.3 |
| #2 | 6561.1 | 85052. | 6021.5 |

Sample Name: LCS 280-173681/2-A Acquired: 5/15/2013 6:55:17 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.05813** | **1.8223** | **1.0272** | **1.0046** | **2.0560** | **.04824** | **2.0752** | **50.278** | **.10645** |
| Stddev | .00022 | .0056 | .0045 | .0028 | .0035 | .00003 | .0066 | .116 | .00027 |
| %RSD | .37097 | .30766 | .43562 | .27911 | .16852 | .05916 | .32056 | .23024 | .24974 |
| #1 | .05829 | 1.8183 | 1.0241 | 1.0027 | 2.0585 | .04822 | 2.0705 | 50.360 | .10626 |
| #2 | .05798 | 1.8263 | 1.0304 | 1.0066 | 2.0536 | .04826 | 2.0799 | 50.196 | .10664 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .05750 | | | | | | | | |
| Low Limit | .04300 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51469** | **.19754** | **.25103** | **1.0075** | **51.584** | **1.0250** | **52.892** | **.52647** | **.96234** |
| Stddev | .00075 | .00042 | .00055 | .0082 | .097 | .0026 | .036 | .00008 | .00180 |
| %RSD | .14482 | .21396 | .21842 | .81555 | .18838 | .25488 | .06901 | .01492 | .18717 |
| #1 | .51416 | .19724 | .25142 | 1.0133 | 51.652 | 1.0268 | 52.918 | .52642 | .96106 |
| #2 | .51522 | .19784 | .25064 | 1.0016 | 51.515 | 1.0231 | 52.866 | .52653 | .96361 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.085** | **.49525** | **10.185** | **.51267** | **.00232** | **.53005** | **2.0294** | **9.9648** | **1.9477** |
| Stddev | .223 | .00063 | .024 | .00219 | .00238 | .00456 | .0073 | .0197 | .0135 |
| %RSD | .42859 | .12701 | .23580 | .42732 | 102.66 | .85985 | .35992 | .19762 | .69353 |
| #1 | 52.243 | .49481 | 10.168 | .51112 | .00401 | .52683 | 2.0243 | 9.9787 | 1.9382 |
| #2 | 51.927 | .49570 | 10.202 | .51422 | .00064 | .53328 | 2.0346 | 9.9509 | 1.9573 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95702** | **1.0735** | **1.0411** | **1.9635** | **2.0929** | **.51131** | **.53764** | **.49374** |
| Stddev | .00396 | .0036 | .0004 | .0080 | .0156 | .00094 | .00044 | .00143 |
| %RSD | .41426 | .33307 | .03564 | .40731 | .74377 | .18436 | .08093 | .28873 |
| #1 | .95982 | 1.0760 | 1.0413 | 1.9578 | 2.0819 | .51197 | .53733 | .49475 |
| #2 | .95421 | 1.0710 | 1.0408 | 1.9691 | 2.1039 | .51064 | .53794 | .49273 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6324.2** | **81447.** | **5883.5** |
| Stddev | 13.7 | 33. | 8.7 |
| %RSD | .21669 | .04105 | .14858 |
| #1 | 6333.9 | 81471. | 5877.3 |
| #2 | 6314.5 | 81424. | 5889.7 |

Sample Name: 280-42002-C-1-A Acquired: 5/15/2013 6:57:30 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00190** | **-.00134** | **-.00276** | **.00114** | **.00006** | **-.00063** | **.00607** | **.00006** |
| Stddev | .00110 | .00013 | .00035 | .00008 | .00015 | .00006 | .00024 | .00139 | .00009 |
| %RSD | 732.06 | 6.9082 | 25.789 | 2.9360 | 13.333 | 112.41 | 38.686 | 22.883 | 154.83 |
| #1 | -.00063 | .00180 | -.00110 | -.00282 | .00103 | .00001 | -.00046 | .00509 | -.00001 |
| #2 | .00093 | .00199 | -.00159 | -.00270 | .00124 | .00010 | -.00080 | .00706 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00014** | **-.00038** | **.00564** | **-.02816** | **.00518** | **.00223** | **.00018** | **.00019** |
| Stddev | .00015 | .00009 | .00016 | .00174 | .02875 | .00117 | .00236 | .00004 | .00028 |
| %RSD | 32.121 | 63.751 | 42.812 | 30.805 | 102.08 | 22.514 | 105.55 | 24.984 | 147.18 |
| #1 | .00058 | .00021 | -.00027 | .00441 | -.00784 | .00436 | .00390 | .00021 | .00039 |
| #2 | .00037 | .00008 | -.00050 | .00687 | -.04849 | .00601 | .00057 | .00014 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21987** | **.00000** | **.17053** | **.00000** | **.01087** | **-.00014** | **.00180** | **.02872** | **.00008** |
| Stddev | .00830 | .00007 | .00198 | .00045 | .00068 | .00004 | .00209 | .00273 | .00026 |
| %RSD | 3.7744 | 2405.4 | 1.1584 | 24445. | 6.2372 | 25.969 | 116.02 | 9.5063 | 324.69 |
| #1 | .21400 | -.00005 | .17193 | -.00032 | .01135 | -.00017 | .00032 | .02679 | .00027 |
| #2 | .22574 | .00005 | .16913 | .00032 | .01039 | -.00012 | .00328 | .03066 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **-.00033** | **.00023** | **-.00029** | **.02682** | **.00013** | **.00344** | **.00257** |
| Stddev | .00001 | .00045 | .00010 | .00103 | .02210 | .00081 | .00000 | .00067 |
| %RSD | 19.159 | 137.31 | 46.164 | 354.57 | 82.413 | 622.64 | .03555 | 26.218 |
| #1 | .00005 | -.00001 | .00015 | -.00102 | .01119 | -.00044 | .00344 | .00304 |
| #2 | .00004 | -.00065 | .00030 | .00044 | .04245 | .00070 | .00344 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6548.2** | **84800.** | **5972.0** |
| Stddev | 9.4 | 118. | 24.1 |
| %RSD | .14293 | .13950 | .40405 |
| #1 | 6554.8 | 84716. | 5955.0 |
| #2 | 6541.6 | 84883. | 5989.1 |

Sample Name: sd 280-42002-C-1-A@5 Acquired: 5/15/2013 6:59:59 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00086** | **.00037** | **-.00637** | **.00079** | **.00001** | **-.00085** | **-.00468** | **-.00015** |
| Stddev | .00037 | .00001 | .00066 | .00036 | .00032 | .00010 | .00059 | .00099 | .00003 |
| %RSD | 62.016 | .97669 | 177.69 | 5.6666 | 40.935 | 1039.2 | 69.764 | 21.157 | 17.135 |
| #1 | .00086 | .00086 | -.00010 | -.00611 | .00056 | -.00006 | -.00127 | -.00538 | -.00013 |
| #2 | .00034 | .00085 | .00084 | -.00662 | .00102 | .00008 | -.00043 | -.00398 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00010** | **-.00065** | **.02172** | **.01537** | **.00624** | **-.00039** | **.00009** | **-.00017** |
| Stddev | .00014 | .00013 | .00007 | .00029 | .03469 | .00197 | .00027 | .00008 | .00002 |
| %RSD | 29.364 | 133.82 | 11.048 | 1.3482 | 225.62 | 31.506 | 68.928 | 88.104 | 11.947 |
| #1 | .00038 | .00001 | -.00070 | .02193 | .03990 | .00763 | -.00058 | .00003 | -.00015 |
| #2 | .00058 | .00019 | -.00060 | .02152 | -.00915 | .00485 | -.00020 | .00014 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21503** | **.00002** | **.03406** | **-.00057** | **.00263** | **.00012** | **-.00067** | **.02245** | **.00009** |
| Stddev | .00619 | .00020 | .00359 | .00041 | .00086 | .00033 | .00051 | .00924 | .00006 |
| %RSD | 2.8777 | 833.95 | 10.553 | 71.616 | 32.651 | 269.62 | 76.898 | 41.180 | 59.935 |
| #1 | .21941 | -.00011 | .03152 | -.00086 | .00324 | .00035 | -.00030 | .01591 | .00005 |
| #2 | .21065 | .00016 | .03660 | -.00028 | .00202 | -.00011 | -.00103 | .02899 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.00107** | **.00003** | **-.00112** | **.00366** | **-.00004** | **.00400** | **.00028** |
| Stddev | .00002 | .00205 | .00045 | .00096 | .00211 | .00005 | .00008 | .00086 |
| %RSD | 19.718 | 190.74 | 1472.5 | 85.899 | 57.570 | 120.96 | 2.1236 | 311.42 |
| #1 | -.00008 | -.00037 | -.00029 | -.00180 | .00515 | -.00001 | .00394 | -.00033 |
| #2 | -.00011 | .00252 | .00035 | -.00044 | .00217 | -.00007 | .00406 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6472.1** | **83282.** | **5860.0** |
| Stddev | 8.1 | 11. | 35.6 |
| %RSD | .12497 | .01315 | .60816 |
| #1 | 6477.8 | 83275. | 5885.2 |
| #2 | 6466.4 | 83290. | 5834.8 |

Sample Name: 280-42002-C-1-B MS  Acquired: 5/15/2013 7:02:28  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05610** | **1.7138** | **.97009** | **.95873** | **1.9333** | **.04514** | **1.9835** | **47.122** | **.10038** |
| Stddev | .00025 | .0017 | .00338 | .00150 | .0001 | .00001 | .0010 | .051 | .00007 |
| %RSD | .45423 | .10003 | .34826 | .15677 | .00541 | .01787 | .04823 | .10868 | .07369 |
| #1 | .05592 | 1.7126 | .96770 | .95766 | 1.9334 | .04514 | 1.9841 | 47.086 | .10033 |
| #2 | .05628 | 1.7150 | .97248 | .95979 | 1.9333 | .04515 | 1.9828 | 47.158 | .10044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48110** | **.18500** | **.23421** | **.91907** | **48.660** | **.96685** | **49.130** | **.49040** | **.91018** |
| Stddev | .00098 | .00016 | .00040 | .00192 | .021 | .00026 | .085 | .00025 | .00193 |
| %RSD | .20345 | .08694 | .17257 | .20869 | .04367 | .02666 | .17339 | .05191 | .21179 |
| #1 | .48041 | .18489 | .23392 | .92043 | 48.675 | .96703 | 49.191 | .49058 | .90882 |
| #2 | .48179 | .18512 | .23449 | .91772 | 48.645 | .96667 | 49.070 | .49022 | .91155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.016** | **.46448** | **9.6054** | **.48463** | **-.00049** | **.49974** | **1.9213** | **9.5096** | **1.8456** |
| Stddev | .172 | .00005 | .0028 | .00312 | .00141 | .00099 | .0031 | .0190 | .0036 |
| %RSD | .35035 | .01178 | .02955 | .64392 | 290.14 | .19715 | .16295 | .20026 | .19386 |
| #1 | 48.895 | .46444 | 9.6034 | .48242 | -.00148 | .50044 | 1.9191 | 9.4961 | 1.8431 |
| #2 | 49.138 | .46451 | 9.6074 | .48684 | .00051 | .49905 | 1.9235 | 9.5230 | 1.8481 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89916** | **.99660** | **.97338** | **1.8816** | **1.9709** | **.47831** | **.50084** | **.46562** |
| Stddev | .00064 | .00227 | .00071 | .0037 | .0711 | .00046 | .00111 | .00097 |
| %RSD | .07069 | .22800 | .07299 | .19430 | 3.6090 | .09569 | .22175 | .20865 |
| #1 | .89961 | .99499 | .97388 | 1.8790 | 2.0212 | .47863 | .50162 | .46494 |
| #2 | .89871 | .99821 | .97287 | 1.8842 | 1.9206 | .47798 | .50005 | .46631 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6337.5** | **82163.** | **5910.4** |
| Stddev | 10.8 | 374. | 20.9 |
| %RSD | .16985 | .45512 | .35313 |
| #1 | 6345.1 | 81899. | 5895.6 |
| #2 | 6329.9 | 82428. | 5925.1 |

Sample Name: 280-42002-C-1-C MSD  Acquired: 5/15/2013 7:04:41  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05639** | **1.6431** | **.93588** | **.93439** | **1.8570** | **.04335** | **1.9541** | **45.190** | **.09752** |
| Stddev | .00012 | .0039 | .00186 | .00156 | .0146 | .00018 | .0014 | .282 | .00008 |
| %RSD | .21317 | .23831 | .19828 | .16688 | .78771 | .41718 | .07434 | .62315 | .08029 |
| #1 | .05630 | 1.6403 | .93720 | .93329 | 1.8674 | .04347 | 1.9551 | 45.389 | .09757 |
| #2 | .05647 | 1.6459 | .93457 | .93550 | 1.8467 | .04322 | 1.9530 | 44.991 | .09746 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46205** | **.17751** | **.22567** | **.93028** | **47.142** | **.93294** | **47.177** | **.47300** | **.87728** |
| Stddev | .00003 | .00034 | .00081 | .00788 | .313 | .00780 | .044 | .00042 | .00032 |
| %RSD | .00637 | .19334 | .35880 | .84736 | .66463 | .83615 | .09371 | .08980 | .03675 |
| #1 | .46203 | .17727 | .22510 | .93586 | 47.364 | .93846 | 47.146 | .47270 | .87751 |
| #2 | .46207 | .17775 | .22625 | .92471 | 46.921 | .92743 | 47.208 | .47330 | .87705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.787** | **.44529** | **9.2906** | **.47222** | **-.00095** | **.48364** | **1.8601** | **9.2496** | **1.7827** |
| Stddev | .009 | .00038 | .0045 | .00090 | .00054 | .00084 | .0087 | .0071 | .0003 |
| %RSD | .01840 | .08646 | .04790 | .19014 | 56.944 | .17310 | .46888 | .07662 | .01832 |
| #1 | 47.794 | .44557 | 9.2874 | .47158 | -.00057 | .48424 | 1.8540 | 9.2546 | 1.7825 |
| #2 | 47.781 | .44502 | 9.2937 | .47285 | -.00134 | .48305 | 1.8663 | 9.2445 | 1.7830 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86270** | **.96455** | **.93881** | **1.8523** | **1.8515** | **.46217** | **.48339** | **.44614** |
| Stddev | .00772 | .00104 | .00117 | .0013 | .0306 | .00007 | .00187 | .00027 |
| %RSD | .89511 | .10773 | .12487 | .07224 | 1.6499 | .01502 | .38605 | .05971 |
| #1 | .86816 | .96381 | .93799 | 1.8513 | 1.8299 | .46212 | .48471 | .44595 |
| #2 | .85724 | .96528 | .93964 | 1.8532 | 1.8731 | .46222 | .48207 | .44633 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6363.4** | **81886.** | **5879.1** |
| Stddev | 4.5 | 189. | 57.2 |
| %RSD | .07105 | .23134 | .97347 |
| #1 | 6366.6 | 81752. | 5838.6 |
| #2 | 6360.2 | 82020. | 5919.5 |

Sample Name: 280-42002-C-2-A Acquired: 5/15/2013 7:06:54 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00164** | **-.00176** | **-.00178** | **.00090** | **.00011** | **.00003** | **.01022** | **.00008** |
| Stddev | .00033 | .00005 | .00103 | .00036 | .00031 | .00007 | .00068 | .00244 | .00002 |
| %RSD | 62.944 | 2.9328 | 58.467 | 20.152 | 34.622 | 62.337 | 2643.4 | 23.904 | 27.974 |
| #1 | .00029 | .00168 | -.00103 | -.00203 | .00112 | .00016 | -.00045 | .00849 | .00010 |
| #2 | .00076 | .00161 | -.00249 | -.00152 | .00068 | .00006 | .00050 | .01195 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00022** | **-.00030** | **.00907** | **-.01059** | **.00644** | **.00359** | **.00010** | **-.00012** |
| Stddev | .00004 | .00003 | .00005 | .00193 | .00517 | .00057 | .00339 | .00003 | .00008 |
| %RSD | 14.556 | 13.753 | 16.175 | 21.235 | 48.853 | 8.8161 | 94.454 | 32.247 | 65.767 |
| #1 | .00026 | .00024 | -.00026 | .00771 | -.01425 | .00684 | .00599 | .00007 | -.00017 |
| #2 | .00032 | .00020 | -.00033 | .01043 | -.00693 | .00604 | .00119 | .00012 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21664** | **-.00009** | **.16269** | **.00140** | **.00486** | **-.00110** | **-.00111** | **.04120** | **.00015** |
| Stddev | .00662 | .00006 | .00115 | .00137 | .00065 | .00165 | .00378 | .00425 | .00045 |
| %RSD | 3.0555 | 70.204 | .70398 | 97.644 | 13.309 | 149.74 | 340.09 | 10.303 | 311.21 |
| #1 | .22132 | -.00013 | .16188 | .00043 | .00440 | .00006 | .00156 | .04421 | -.00018 |
| #2 | .21196 | -.00004 | .16350 | .00237 | .00532 | -.00227 | -.00378 | .03820 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00269** | **-.00000** | **-.00107** | **-.01499** | **-.00035** | **.00243** | **.00096** |
| Stddev | .00002 | .00154 | .00000 | .00075 | .02089 | .00010 | .00010 | .00408 |
| %RSD | 26.048 | 57.377 | 189.02 | 69.704 | 139.39 | 29.186 | 4.3085 | 425.93 |
| #1 | .00008 | .00378 | -.00000 | -.00054 | -.02975 | -.00028 | .00250 | -.00193 |
| #2 | .00006 | .00160 | .00000 | -.00160 | -.00022 | -.00043 | .00236 | .00384 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6524.9** | **83888.** | **5983.6** |
| Stddev | .8 | 49. | 4.1 |
| %RSD | .01179 | .05880 | .06869 |
| #1 | 6525.5 | 83922. | 5986.5 |
| #2 | 6524.4 | 83853. | 5980.7 |

Sample Name: 280-42002-C-3-A Acquired: 5/15/2013 7:09:25 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00320** | **.00090** | **.55428** | **.01807** | **-.00004** | **-.00209** | **24.458** | **-.00011** |
| Stddev | .00014 | .00017 | .00310 | .00205 | .00010 | .00002 | .00043 | .188 | .00003 |
| %RSD | 39.189 | 5.2694 | 345.60 | .36975 | .55065 | 57.376 | 20.681 | .76721 | 23.766 |
| #1 | .00025 | .00308 | -.00130 | .55283 | .01800 | -.00006 | -.00239 | 24.325 | -.00009 |
| #2 | .00045 | .00331 | .00309 | .55573 | .01814 | -.00002 | -.00178 | 24.591 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00033** | **.00016** | **.26651** | **6.5165** | **.19947** | **6.1949** | **.27870** | **.01573** |
| Stddev | .00017 | .00013 | .00002 | .00133 | .0598 | .00165 | .0018 | .00019 | .00001 |
| %RSD | 75.505 | 39.177 | 13.169 | .49916 | .91754 | .82759 | .02908 | .06836 | .03357 |
| #1 | .00010 | .00042 | .00014 | .26745 | 6.4742 | .19831 | 6.1962 | .27857 | .01572 |
| #2 | .00034 | .00024 | .00017 | .26557 | 6.5587 | .20064 | 6.1936 | .27884 | .01573 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **426.88** | **.00173** | **.30980** | **.00102** | **135.53** | **-.00151** | **-.00081** | **13.716** | **-.00013** |
| Stddev | 2.21 | .00023 | .00007 | .00061 | .25 | .00142 | .00253 | .058 | .00059 |
| %RSD | .51881 | 13.155 | .02205 | 59.256 | .18702 | 94.038 | 313.58 | .41930 | 452.43 |
| #1 | 425.31 | .00189 | .30975 | .00060 | 135.35 | -.00051 | -.00260 | 13.675 | -.00055 |
| #2 | 428.44 | .00157 | .30985 | .00145 | 135.70 | -.00251 | .00098 | 13.757 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40233** | **-.00106** | **-.00022** | **.00019** | **.01968** | **.00016** | **.00439** | **.00071** |
| Stddev | .00272 | .00135 | .00018 | .00056 | .01282 | .00030 | .00040 | .00150 |
| %RSD | .67560 | 127.11 | 80.508 | 290.37 | 65.112 | 191.22 | 9.1183 | 210.71 |
| #1 | .40041 | -.00202 | -.00010 | -.00020 | .02875 | .00037 | .00411 | .00177 |
| #2 | .40425 | -.00011 | -.00035 | .00059 | .01062 | -.00006 | .00468 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6184.9** | **80529.** | **5835.7** |
| Stddev | 17.3 | 147. | 27.0 |
| %RSD | .27897 | .18255 | .46304 |
| #1 | 6197.1 | 80425. | 5854.8 |
| #2 | 6172.7 | 80633. | 5816.6 |

Sample Name: 280-42002-C-4-A Acquired: 5/15/2013 7:11:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.00438** | **.00091** | **.70843** | **.03737** | **.00003** | **-.00047** | **45.390** | **-.00008** |
| Stddev | .00006 | .00012 | .00202 | .00053 | .00006 | .00001 | .00202 | .269 | .00024 |
| %RSD | 18.114 | 2.6654 | 221.79 | .07477 | .16903 | 58.518 | 434.34 | .59295 | 282.39 |
| #1 | -.00027 | .00430 | .00234 | .70806 | .03732 | .00004 | .00096 | 45.200 | .00008 |
| #2 | -.00035 | .00446 | -.00052 | .70880 | .03741 | .00001 | -.00189 | 45.580 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **.00038** | **.00098** | **.01898** | **11.242** | **.25033** | **14.875** | **.15252** | **.04487** |
| Stddev | .00010 | .00011 | .00028 | .00035 | .098 | .00067 | .033 | .00006 | .00003 |
| %RSD | 14.599 | 27.758 | 28.287 | 1.8280 | .86890 | .26579 | .22397 | .03723 | .06953 |
| #1 | .00060 | .00030 | .00118 | .01922 | 11.173 | .24986 | 14.852 | .15248 | .04490 |
| #2 | .00073 | .00045 | .00079 | .01873 | 11.311 | .25080 | 14.899 | .15256 | .04485 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **460.41** | **.00602** | **.22369** | **.00063** | **170.77** | **-.00122** | **.00327** | **6.7955** | **-.00069** |
| Stddev | 2.09 | .00019 | .00013 | .00045 | .61 | .00027 | .00140 | .0231 | .00007 |
| %RSD | .45347 | 3.1308 | .05686 | 71.099 | .35740 | 22.114 | 42.673 | .33969 | 10.584 |
| #1 | 458.93 | .00616 | .22360 | .00095 | 171.20 | -.00103 | .00228 | 6.7792 | -.00075 |
| #2 | 461.88 | .00589 | .22378 | .00031 | 170.34 | -.00142 | .00426 | 6.8118 | -.00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76457** | **-.00075** | **.00013** | **.00040** | **.06145** | **.00170** | **.00442** | **.00118** |
| Stddev | .00295 | .00024 | .00004 | .00145 | .00089 | .00034 | .00030 | .00056 |
| %RSD | .38630 | 31.714 | 30.833 | 362.34 | 1.4499 | 19.821 | 6.7023 | 47.727 |
| #1 | .76248 | -.00092 | .00010 | -.00063 | .06082 | .00146 | .00463 | .00078 |
| #2 | .76666 | -.00058 | .00016 | .00143 | .06208 | .00194 | .00421 | .00158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6152.2** | **79371.** | **5836.3** |
| Stddev | 36.1 | 154. | 42.1 |
| %RSD | .58631 | .19399 | .72149 |
| #1 | 6177.7 | 79262. | 5866.1 |
| #2 | 6126.7 | 79480. | 5806.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 7:14:26 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00718** | **50.017** | **-.00267** | **-.00452** | **.00102** | **-.00003** | **1.0068** | **-.00025** | **-.00070** | **.00225** | **.00006** | **-.00093** | **50.730** |
| Stddev | .00047 | .172 | .00054 | .00069 | .00011 | .00010 | .0070 | .00041 | .00024 | .00027 | .00002 | .00042 | .048 |
| %RSD | 6.5922 | .34450 | 20.029 | 15.293 | 10.410 | 358.37 | .69674 | 165.49 | 33.515 | 11.932 | 38.225 | 45.001 | .09372 |
| #1 | .00684 | 49.895 | -.00305 | -.00403 | .00109 | -.00009 | 1.0117 | -.00053 | -.00054 | .00244 | .00007 | -.00122 | 50.764 |
| #2 | .00751 | 50.138 | -.00229 | -.00501 | .00094 | .00004 | 1.0018 | .00004 | -.00087 | .00206 | .00004 | -.00063 | 50.697 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10531** | **.00492** | **-.01187** | **-.00065** | **-.00222** | **253.88** | **.00104** | **.00039** | **.00156** | **5.2154** | **-.00140** | **.00272** | **.01436** |
| Stddev | .00068 | .00106 | .00112 | .00012 | .00014 | .83 | .00037 | .00173 | .00294 | .0254 | .00108 | .00084 | .00344 |
| %RSD | .64910 | 21.476 | 9.4285 | 18.283 | 6.1910 | .32650 | 35.071 | 447.63 | 188.12 | .48685 | 77.325 | 30.925 | 23.961 |
| #1 | .10483 | .00417 | -.01266 | -.00073 | -.00232 | 253.30 | .00078 | -.00084 | .00364 | 5.2333 | -.00216 | .00212 | .01680 |
| #2 | .10580 | .00567 | -.01108 | -.00056 | -.00213 | 254.47 | .00130 | .00161 | -.00052 | 5.1974 | -.00063 | .00331 | .01193 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00034** | **5.2556** | **.00380** | **-.00193** | **10.007** | **-.00107** | **.00326** | **-.05480** |
| Stddev | .00079 | .00001 | .0044 | .00035 | .00066 | .052 | .00001 | .00041 | .00051 |
| %RSD | 169.59 | 1.8510 | .08362 | 9.1708 | 34.233 | .52405 | 1.3045 | 12.665 | .92936 |
| #1 | -.00009 | .00035 | 5.2587 | .00355 | -.00240 | 9.9702 | -.00106 | .00297 | -.05444 |
| #2 | .00103 | .00034 | 5.2524 | .00405 | -.00146 | 10.044 | -.00108 | .00355 | -.05516 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6310.9** | **80802.** | **5765.9** |
| Stddev | 13.7 | 419. | 12.4 |
| %RSD | .21734 | .51888 | .21426 |
| #1 | 6320.6 | 80506. | 5774.6 |
| #2 | 6301.2 | 81099. | 5757.2 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 7:16:51 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53654** | **.47454** | **1.0108** | **.48821** | **.50561** | **.47643** | **.00395** | **5.0619** | **.51524** | **.51753** | **.49119** | **.49505** | **2.4371** | **50.687** |
| Stddev | .00583 | .00065 | .0001 | .00042 | .00413 | .00159 | .00016 | .0128 | .00025 | .00078 | .00100 | .00342 | .0104 | .396 |
| %RSD | 1.0862 | .13709 | .00455 | .08684 | .81689 | .33391 | 3.9399 | .25344 | .04828 | .15003 | .20277 | .69097 | .42490 | .78067 |
| #1 | .54066 | .47500 | 1.0108 | .48791 | .50853 | .47756 | .00406 | 5.0710 | .51542 | .51808 | .49048 | .49747 | 2.4444 | 50.966 |
| #2 | .53242 | .47408 | 1.0109 | .48851 | .50269 | .47531 | .00384 | 5.0528 | .51507 | .51698 | .49189 | .49263 | 2.4297 | 50.407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0255** | **20.875** | **.52408** | **.48330** | **5.1506** | **.50653** | **.96660** | **1.0326** | **.01388** | **1.0328** | **.98846** | **4.8944** | **.98093** | **.47660** |
| Stddev | .0043 | .187 | .00453 | .00062 | .0489 | .00107 | .00318 | .0033 | .00189 | .0028 | .00054 | .0277 | .00324 | .00408 |
| %RSD | .42298 | .89568 | .86456 | .12913 | .94996 | .21175 | .32893 | .32169 | 13.647 | .27390 | .05436 | .56642 | .33039 | .85536 |
| #1 | 1.0286 | 21.007 | .52728 | .48286 | 5.1852 | .50577 | .96435 | 1.0303 | .01522 | 1.0308 | .98884 | 4.9140 | .97863 | .47948 |
| #2 | 1.0225 | 20.743 | .52087 | .48375 | 5.1160 | .50728 | .96885 | 1.0350 | .01254 | 1.0348 | .98808 | 4.8748 | .98322 | .47372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00255** | **.51444** | **.98655** | **.02739** | **.49912** | **.53501** | **.50108** |
| Stddev | .00003 | .00416 | .00008 | .00051 | .00437 | .00514 | .00128 |
| %RSD | 1.2624 | .80906 | .00767 | 1.8503 | .87566 | .96093 | .25548 |
| #1 | .00252 | .51738 | .98650 | .02703 | .50221 | .53865 | .50198 |
| #2 | .00257 | .51150 | .98661 | .02775 | .49603 | .53138 | .50017 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6355.7** | **82079.** | **5817.8** |
| Stddev | 3.6 | 712. | 16.2 |
| %RSD | .05619 | .86731 | .27900 |
| #1 | 6358.2 | 81575. | 5806.4 |
| #2 | 6353.2 | 82582. | 5829.3 |

Sample Name: CCB Acquired: 5/15/2013 7:19:06 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **-.00016** | **.00025** | F **-.00607** | W **.00074** | **.00004** | **.00022** | **-.00181** | **-.00003** | **.00031** | **-.00001** |
| Stddev | .00072 | .00017 | .00140 | .00018 | .00003 | .00009 | .00010 | .00100 | .00011 | .00006 | .00001 |
| %RSD | 756.32 | 108.93 | 549.20 | 2.8994 | 4.5099 | 245.73 | 45.548 | 55.151 | 373.29 | 17.918 | 71.287 |
| #1 | .00060 | -.00004 | -.00074 | -.00620 | .00077 | .00010 | .00015 | -.00252 | .00005 | .00027 | -.00001 |
| #2 | -.00041 | -.00028 | .00124 | -.00595 | .00072 | -.00003 | .00029 | -.00111 | -.00011 | .00035 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00053** | **.01022** | **.01921** | W **.00440** | **.00166** | **.00003** | **-.00024** | F **.26100** | **-.00036** | **-.00830** | **.00055** |
| Stddev | .00031 | .00138 | .01491 | .00070 | .00054 | .00003 | .00023 | .00451 | .00020 | .00146 | .00229 |
| %RSD | 59.240 | 13.457 | 77.635 | 15.873 | 32.450 | 91.185 | 98.841 | 1.7267 | 56.236 | 17.581 | 412.10 |
| #1 | -.00031 | .01120 | .02975 | .00390 | .00205 | .00001 | -.00007 | .26419 | -.00050 | -.00727 | .00217 |
| #2 | -.00075 | .00925 | .00866 | .00489 | .00128 | .00005 | -.00040 | .25781 | -.00022 | -.00933 | -.00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00851** | **.00010** | **-.00079** | **.00751** | **-.00034** | **.00008** | **.00067** | **-.00001** | **.00052** | **.04103** | **.00032** |
| Stddev | .00017 | .00123 | .00162 | .00327 | .00021 | .00000 | .00005 | .00015 | .00047 | .02477 | .00026 |
| %RSD | 2.0302 | 1274.7 | 203.68 | 43.496 | 60.192 | 1.5686 | 7.3050 | 1406.1 | 89.935 | 60.360 | 82.961 |
| #1 | .00839 | .00097 | .00035 | .00520 | -.00020 | .00008 | .00064 | -.00012 | .00085 | .05854 | .00013 |
| #2 | .00864 | -.00077 | -.00194 | .00982 | -.00049 | .00008 | .00071 | .00010 | .00019 | .02352 | .00050 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00301** | **.00157** |
| Stddev | .00012 | .00177 |
| %RSD | 3.8290 | 112.40 |
| #1 | .00309 | .00282 |
| #2 | .00292 | .00032 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6354.6** | **82266.** | **5752.5** |
| Stddev | 7.3 | 302. | 2.3 |
| %RSD | .11454 | .36673 | .04018 |
| #1 | 6349.5 | 82053. | 5750.9 |
| #2 | 6359.8 | 82479. | 5754.2 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 7:21:35 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01176** | **.10017** | **.01518** | **.09192** | **.01115** | **.00098** | **.10574** | **.20436** | **.00512** | **.01120** | **.01015** |
| Stddev | .00088 | .00013 | .00157 | .00110 | .00028 | .00015 | .00106 | .00146 | .00010 | .00004 | .00015 |
| %RSD | 7.5192 | .12650 | 10.343 | 1.1989 | 2.5339 | 15.821 | 1.0028 | .71561 | 1.9459 | .36879 | 1.4399 |
| #1 | .01113 | .10008 | .01629 | .09114 | .01095 | .00087 | .10499 | .20539 | .00505 | .01117 | .01025 |
| #2 | .01238 | .10026 | .01407 | .09270 | .01135 | .00109 | .10649 | .20332 | .00520 | .01123 | .01005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01509** | **.11060** | **3.2120** | F **.01616** | **.21570** | **.01100** | **.01951** | W **1.2644** | **.04204** | **2.9295** | **.00973** |
| Stddev | .00009 | .00123 | .0011 | .00013 | .00038 | .00005 | .00022 | .0012 | .00022 | .0082 | .00061 |
| %RSD | .61098 | 1.1101 | .03300 | .83293 | .17587 | .49449 | 1.1524 | .09543 | .51202 | .27851 | 6.2321 |
| #1 | .01515 | .11147 | 3.2113 | .01607 | .21596 | .01104 | .01935 | 1.2635 | .04188 | 2.9238 | .00930 |
| #2 | .01502 | .10973 | 3.2128 | .01626 | .21543 | .01096 | .01967 | 1.2653 | .04219 | 2.9353 | .01016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00872** | **.00915** | **.01626** | **.51543** | **.10127** | **.00976** | **.01664** | **.01026** | **.01376** | **.05324** | **.00978** |
| Stddev | .00535 | .00006 | .00154 | .00628 | .00111 | .00015 | .00020 | .00027 | .00045 | .01116 | .00031 |
| %RSD | 61.361 | .67740 | 9.5029 | 1.2190 | 1.0965 | 1.5501 | 1.2214 | 2.6566 | 3.2738 | 20.965 | 3.1278 |
| #1 | .00493 | .00919 | .01516 | .51987 | .10049 | .00965 | .01678 | .01045 | .01344 | .04535 | .00957 |
| #2 | .01250 | .00910 | .01735 | .51099 | .10206 | .00986 | .01650 | .01007 | .01408 | .06113 | .01000 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02614** | **.01628** |
| Stddev | .00062 | .00036 |
| %RSD | 2.3836 | 2.1988 |
| #1 | .02658 | .01654 |
| #2 | .02570 | .01603 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6447.3** | **83950.** | **5822.6** |
| Stddev | 1.5 | . | 2.5 |
| %RSD | .02391 | .00044 | .04281 |
| #1 | 6448.4 | 83950. | 5824.4 |
| #2 | 6446.2 | 83951. | 5820.9 |

Sample Name: 280-42002-C-5-A  Acquired: 5/15/2013 7:24:00  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.01355** | **.00224** | **.65253** | **.02391** | **-.00003** | **-.00279** | **28.921** | **-.00011** |
| Stddev | .00014 | .00057 | .00244 | .00350 | .00067 | .00008 | .00049 | .014 | .00020 |
| %RSD | 112.12 | 4.2042 | 108.87 | .53609 | 2.8152 | 248.79 | 17.665 | .04986 | 184.19 |
| #1 | -.00023 | .01395 | .00052 | .65006 | .02343 | -.00009 | -.00314 | 28.931 | -.00025 |
| #2 | -.00003 | .01315 | .00397 | .65501 | .02438 | .00002 | -.00245 | 28.910 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00074** | **.00054** | **.00055** | **.01856** | **9.3812** | **.22042** | **9.1289** | **.16617** | **.03164** |
| Stddev | .00016 | .00018 | .00009 | .00158 | .0368 | .00200 | .0279 | .00031 | .00006 |
| %RSD | 21.535 | 32.422 | 16.274 | 8.5006 | .39242 | .90684 | .30557 | .18952 | .17593 |
| #1 | .00062 | .00067 | .00062 | .01968 | 9.3552 | .22184 | 9.1487 | .16639 | .03160 |
| #2 | .00085 | .00042 | .00049 | .01745 | 9.4073 | .21901 | 9.1092 | .16594 | .03168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **431.85** | **.00429** | **.20276** | **.00051** | **143.64** | **.00211** | W **-.00569** | **6.3946** | **-.00021** |
| Stddev | .90 | .00011 | .00107 | .00187 | .18 | .00060 | .00251 | .0026 | .00057 |
| %RSD | .20787 | 2.5021 | .52794 | 366.53 | .12230 | 28.411 | 44.021 | .04027 | 266.44 |
| #1 | 432.49 | .00422 | .20352 | -.00081 | 143.51 | .00253 | -.00747 | 6.3964 | -.00061 |
| #2 | 431.22 | .00437 | .20201 | .00183 | 143.76 | .00169 | -.00392 | 6.3928 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 5.0000 | | |
| Low Limit | | | | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50194** | **.00018** | **.00044** | **-.00037** | **.04820** | **.00128** | **.00332** | **.00155** |
| Stddev | .00155 | .00066 | .00008 | .00028 | .03036 | .00003 | .00040 | .00006 |
| %RSD | .30819 | 374.46 | 18.713 | 74.561 | 62.995 | 2.6081 | 12.129 | 3.7407 |
| #1 | .50304 | -.00029 | .00038 | -.00018 | .02673 | .00131 | .00361 | .00159 |
| #2 | .50085 | .00065 | .00050 | -.00057 | .06967 | .00126 | .00304 | .00150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6160.8** | **79348.** | **5804.2** |
| Stddev | 18.1 | 587. | 13.3 |
| %RSD | .29409 | .73933 | .22864 |
| #1 | 6173.6 | 78933. | 5794.8 |
| #2 | 6148.0 | 79762. | 5813.6 |

Sample Name: 280-42002-C-6-A Acquired: 5/15/2013 7:26:31 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00825** | **-.00060** | **.72430** | **.03048** | **.00003** | **-.00057** | **38.389** | **-.00016** |
| Stddev | .00040 | .00044 | .00040 | .00065 | .00007 | .00002 | .00244 | .170 | .00021 |
| %RSD | 83.360 | 5.3856 | 66.943 | .08960 | .22357 | 64.243 | 424.92 | .44291 | 130.02 |
| #1 | .00076 | .00793 | -.00088 | .72476 | .03053 | .00002 | -.00230 | 38.509 | -.00001 |
| #2 | .00020 | .00856 | -.00032 | .72384 | .03044 | .00005 | .00115 | 38.268 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.00030** | **.00014** | **.26621** | **8.1798** | **.26419** | **10.646** | **.51001** | **.02321** |
| Stddev | .00009 | .00001 | .00004 | .00175 | .0247 | .00129 | .016 | .00030 | .00020 |
| %RSD | 12.724 | 3.0999 | 29.778 | .65876 | .30185 | .48705 | .15194 | .05970 | .85111 |
| #1 | .00063 | .00031 | .00011 | .26497 | 8.1973 | .26510 | 10.658 | .50980 | .02335 |
| #2 | .00075 | .00030 | .00017 | .26745 | 8.1624 | .26328 | 10.635 | .51023 | .02307 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **504.78** | **.00388** | **.31290** | **.00155** | **181.52** | **-.00190** | **-.00132** | **10.332** | **-.00042** |
| Stddev | 2.60 | .00023 | .00253 | .00084 | .05 | .00094 | .00308 | .017 | .00005 |
| %RSD | .51525 | 6.0478 | .80927 | 54.039 | .02484 | 49.568 | 233.11 | .16014 | 11.223 |
| #1 | 506.62 | .00404 | .31469 | .00215 | 181.49 | -.00257 | -.00350 | 10.320 | -.00046 |
| #2 | 502.94 | .00371 | .31111 | .00096 | 181.55 | -.00124 | .00086 | 10.344 | -.00039 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.60058** | **.00062** | **.00003** | **.00028** | **.01571** | **.00030** | **.00705** | **.00039** |
| Stddev | .00381 | .00164 | .00008 | .00024 | .01149 | .00036 | .00019 | .00023 |
| %RSD | .63415 | 265.07 | 266.15 | 86.595 | 73.122 | 123.51 | 2.6322 | 58.225 |
| #1 | .60327 | .00178 | -.00003 | .00045 | .00759 | .00004 | .00692 | .00023 |
| #2 | .59789 | -.00054 | .00009 | .00011 | .02383 | .00055 | .00718 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6141.8** | **79168.** | **5774.5** |
| Stddev | 11.9 | 320. | 36.6 |
| %RSD | .19428 | .40472 | .63390 |
| #1 | 6133.4 | 79394. | 5748.6 |
| #2 | 6150.3 | 78941. | 5800.4 |

Sample Name: 280-42002-C-7-A Acquired: 5/15/2013 7:29:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **.03724** | **.00002** | **.89066** | **.02362** | **.00000** | **-.00195** | **90.436** | **-.00002** |
| Stddev | .00053 | .00009 | .00247 | .00066 | .00066 | .00005 | .00283 | .194 | .00021 |
| %RSD | 169.46 | .23164 | 16358. | .07422 | 2.7822 | 3810.2 | 145.21 | .21504 | 1378.5 |
| #1 | -.00069 | .03718 | .00176 | .89113 | .02408 | .00004 | -.00395 | 90.573 | -.00016 |
| #2 | .00006 | .03730 | -.00173 | .89020 | .02315 | -.00004 | .00005 | 90.298 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **.00057** | **.00042** | **.20773** | **15.895** | **.39366** | **31.044** | **.04518** | **.03305** |
| Stddev | .00040 | .00001 | .00012 | .00122 | .043 | .00354 | .015 | .00004 | .00015 |
| %RSD | 47.874 | 2.1776 | 28.304 | .58741 | .27278 | .89904 | .04670 | .08332 | .46140 |
| #1 | .00055 | .00056 | .00034 | .20859 | 15.865 | .39616 | 31.034 | .04515 | .03294 |
| #2 | .00111 | .00058 | .00051 | .20686 | 15.926 | .39115 | 31.054 | .04521 | .03315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **591.28** | **.00182** | **.20934** | **.00104** | **308.26** | **-.00119** | **-.00486** | **8.4928** | **-.00057** |
| Stddev | 1.20 | .00004 | .00017 | .00064 | .28 | .00058 | .00015 | .0171 | .00066 |
| %RSD | .20348 | 2.2667 | .08280 | 61.410 | .09235 | 48.496 | 3.1161 | .20110 | 117.04 |
| #1 | 592.13 | .00179 | .20946 | .00059 | 308.46 | -.00160 | -.00475 | 8.5049 | -.00010 |
| #2 | 590.43 | .00185 | .20922 | .00149 | 308.06 | -.00078 | -.00496 | 8.4807 | -.00104 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2991** | **.00075** | **.00107** | **.00001** | **.03167** | **.00076** | **.00494** | **.00044** |
| Stddev | .0034 | .00027 | .00027 | .00019 | .03170 | .00023 | .00024 | .00044 |
| %RSD | .26489 | 36.587 | 25.466 | 3224.6 | 100.10 | 29.961 | 4.8645 | 99.270 |
| #1 | 1.3015 | .00056 | .00088 | .00014 | .05409 | .00092 | .00511 | .00076 |
| #2 | 1.2966 | .00094 | .00126 | -.00013 | .00925 | .00060 | .00477 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5952.8** | **76614.** | **5539.4** |
| Stddev | 6.3 | 82. | 7.1 |
| %RSD | .10611 | .10688 | .12742 |
| #1 | 5948.3 | 76556. | 5534.4 |
| #2 | 5957.2 | 76672. | 5544.4 |

Sample Name: 280-42002-C-8-A Acquired: 5/15/2013 7:32:39 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.00294** | **.00184** | **.58677** | **.04116** | **-.00005** | **-.00112** | **53.390** | **-.00006** |
| Stddev | .00006 | .00024 | .00139 | .00008 | .00003 | .00010 | .00198 | .154 | .00011 |
| %RSD | 56.312 | 8.3308 | 75.717 | .01393 | .07826 | 199.47 | 177.95 | .28793 | 176.04 |
| #1 | -.00006 | .00276 | .00282 | .58672 | .04114 | -.00012 | .00029 | 53.499 | -.00015 |
| #2 | -.00014 | .00311 | .00085 | .58683 | .04119 | .00002 | -.00252 | 53.282 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00044** | **-.00003** | **.36052** | **8.8698** | **.17480** | **12.822** | **.42810** | **.01977** |
| Stddev | .00032 | .00012 | .00015 | .00138 | .0434 | .00390 | .004 | .00006 | .00010 |
| %RSD | 82.025 | 27.107 | 510.61 | .38295 | .48922 | 2.2316 | .02887 | .01470 | .48693 |
| #1 | .00016 | .00036 | -.00014 | .35955 | 8.9005 | .17204 | 12.819 | .42814 | .01984 |
| #2 | .00062 | .00053 | .00008 | .36150 | 8.8391 | .17756 | 12.824 | .42805 | .01970 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **506.79** | **.00176** | **.25754** | **-.00023** | **235.26** | **-.00051** | **.00075** | **15.888** | **-.00055** |
| Stddev | 1.85 | .00047 | .00250 | .00042 | .62 | .00254 | .00128 | .026 | .00037 |
| %RSD | .36448 | 26.649 | .96983 | 179.92 | .26171 | 497.44 | 170.25 | .16525 | 66.757 |
| #1 | 508.09 | .00142 | .25930 | -.00053 | 234.83 | -.00231 | -.00015 | 15.906 | -.00029 |
| #2 | 505.48 | .00209 | .25577 | .00006 | 235.70 | .00129 | .00166 | 15.869 | -.00081 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.82351** | **-.00079** | **-.00009** | **.00091** | **.01485** | **-.00008** | **.00476** | **-.00083** |
| Stddev | .00585 | .00298 | .00008 | .00005 | .01325 | .00106 | .00045 | .00153 |
| %RSD | .70981 | 377.07 | 93.067 | 5.5587 | 89.173 | 1324.0 | 9.5134 | 185.07 |
| #1 | .82764 | -.00290 | -.00003 | .00094 | .02422 | -.00083 | .00507 | .00025 |
| #2 | .81938 | .00132 | -.00015 | .00087 | .00549 | .00067 | .00444 | -.00191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5998.2** | **78210.** | **5599.3** |
| Stddev | .7 | 18. | 8.6 |
| %RSD | .01143 | .02333 | .15307 |
| #1 | 5997.7 | 78197. | 5605.4 |
| #2 | 5998.6 | 78223. | 5593.3 |

Sample Name: 280-42002-C-9-A Acquired: 5/15/2013 7:35:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.02965** | **.00030** | **.76353** | **.02830** | **-.00005** | **.00122** | **82.986** | **-.00008** |
| Stddev | .00036 | .00034 | .00019 | .00147 | .00046 | .00009 | .00210 | 1.273 | .00001 |
| %RSD | 233.10 | 1.1560 | 63.566 | .19279 | 1.6331 | 205.14 | 172.82 | 1.5337 | 10.094 |
| #1 | .00041 | .02941 | .00044 | .76457 | .02797 | .00002 | -.00027 | 82.086 | -.00008 |
| #2 | -.00010 | .02989 | .00017 | .76249 | .02863 | -.00011 | .00271 | 83.886 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00044** | **.00078** | **.04850** | **6.1204** | **.39557** | **26.714** | **.03152** | **.02686** |
| Stddev | .00008 | .00001 | .00064 | .00255 | .0864 | .00544 | .030 | .00001 | .00016 |
| %RSD | 12.998 | 3.1873 | 82.295 | 5.2521 | 1.4110 | 1.3762 | .11336 | .01977 | .58354 |
| #1 | .00065 | .00045 | .00033 | .04670 | 6.0593 | .39172 | 26.735 | .03152 | .02697 |
| #2 | .00054 | .00043 | .00124 | .05030 | 6.1814 | .39942 | 26.692 | .03151 | .02675 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **571.43** | **.00115** | **.21916** | **.00031** | **280.17** | **-.00126** | **.00100** | **10.165** | **-.00145** |
| Stddev | 8.96 | .00003 | .00116 | .00063 | .57 | .00094 | .00200 | .208 | .00037 |
| %RSD | 1.5684 | 2.5477 | .52797 | 202.22 | .20471 | 74.970 | 200.34 | 2.0422 | 25.339 |
| #1 | 565.10 | .00112 | .21997 | .00076 | 280.58 | -.00059 | .00241 | 10.018 | -.00171 |
| #2 | 577.77 | .00117 | .21834 | -.00013 | 279.77 | -.00192 | -.00042 | 10.312 | -.00119 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99663** | **-.00051** | **.00077** | **-.00003** | **.05978** | **.00241** | **.00461** | **-.00050** |
| Stddev | .01620 | .00108 | .00022 | .00086 | .02228 | .00126 | .00019 | .00037 |
| %RSD | 1.6251 | 211.94 | 28.456 | 2582.8 | 37.273 | 52.140 | 4.0481 | 74.467 |
| #1 | .98518 | .00025 | .00092 | .00058 | .04403 | .00152 | .00448 | -.00024 |
| #2 | 1.0081 | -.00127 | .00061 | -.00064 | .07554 | .00330 | .00474 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6014.3** | **77411.** | **5543.4** |
| Stddev | 8.2 | 126. | 40.7 |
| %RSD | .13610 | .16225 | .73460 |
| #1 | 6008.6 | 77322. | 5572.2 |
| #2 | 6020.1 | 77500. | 5514.6 |

Sample Name: 280-42000-O-1-A Acquired: 5/15/2013 7:38:48 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.01843** | **.00035** | **.03305** | **.47586** | **-.00009** | **-.00199** | **142.69** | **.00017** |
| Stddev | .00018 | .00031 | .00118 | .00027 | .00322 | .00005 | .00129 | .18 | .00005 |
| %RSD | 181.44 | 1.6918 | 334.33 | .82162 | .67753 | 53.038 | 64.830 | .12820 | 29.741 |
| #1 | -.00003 | .01866 | .00119 | .03285 | .47814 | -.00012 | -.00290 | 142.82 | .00013 |
| #2 | .00022 | .01821 | -.00048 | .03324 | .47358 | -.00006 | -.00108 | 142.56 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **.00537** | **.00131** | **16.124** | **5.5741** | **.03145** | **45.426** | **.37255** | **.00092** |
| Stddev | .00006 | .00001 | .00031 | .025 | .0378 | .00084 | .212 | .00141 | .00021 |
| %RSD | 14.649 | .18788 | 23.663 | .15675 | .67829 | 2.6775 | .46751 | .37755 | 22.695 |
| #1 | .00037 | .00536 | .00153 | 16.142 | 5.6008 | .03085 | 45.576 | .37354 | .00106 |
| #2 | .00045 | .00538 | .00109 | 16.106 | 5.5473 | .03204 | 45.275 | .37155 | .00077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **10.170** | **10.326** | **.00104** | **.86254** | **.00182** | **80.980** | **-.00018** | **-.00216** | **16.960** |
| Stddev | .055 | .455 | .00012 | .00385 | .00015 | .087 | .00078 | .00086 | .041 |
| %RSD | .53667 | 4.4099 | 11.424 | .44665 | 8.2088 | .10748 | 432.42 | 39.523 | .24032 |
| #1 | 10.209 | 10.004 | .00113 | .85981 | .00172 | 80.919 | .00037 | -.00156 | 16.989 |
| #2 | 10.131 | 10.648 | .00096 | .86526 | .00193 | 81.042 | -.00073 | -.00277 | 16.932 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.66036** | **.00280** | **.00049** | **-.00085** | **-.00852** | **.00140** | **.00475** | **.00043** |
| Stddev | .00087 | .00196 | .00043 | .00025 | .00011 | .01183 | .00034 | .00038 | .00072 |
| %RSD | 972.10 | .29747 | 15.467 | 51.169 | 13.191 | 138.84 | 24.322 | 8.0101 | 168.51 |
| #1 | .00052 | .66175 | .00249 | .00066 | -.00077 | -.01689 | .00116 | .00448 | -.00008 |
| #2 | -.00070 | .65897 | .00310 | .00031 | -.00093 | -.00016 | .00165 | .00502 | .00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6210.6** | **80573.** | **5723.3** |
| Stddev | 7.2 | 204. | 5.2 |
| %RSD | .11592 | .25292 | .09161 |
| #1 | 6205.5 | 80429. | 5719.5 |
| #2 | 6215.7 | 80717. | 5727.0 |

Sample Name: 280-42001-K-1-A Acquired: 5/15/2013 7:41:11 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173681 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **1.6788** | **.00282** | **.27262** | **.20184** | **.00013** | **-.00219** | **78.543** | **.00026** |
| Stddev | .00017 | .0055 | .00173 | .00043 | .00031 | .00003 | .00175 | .001 | .00015 |
| %RSD | 559.79 | .32732 | 61.497 | .15709 | .15582 | 22.914 | 80.044 | .00143 | 57.978 |
| #1 | -.00015 | 1.6827 | .00404 | .27292 | .20207 | .00011 | -.00095 | 78.544 | .00016 |
| #2 | .00009 | 1.6749 | .00159 | .27232 | .20162 | .00015 | -.00343 | 78.543 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00198** | **.00341** | **.00522** | **2.6728** | **8.4286** | **.03414** | **31.028** | **.17981** | **.00359** |
| Stddev | .00009 | .00018 | .00017 | .0092 | .0673 | .00005 | .048 | .00039 | .00003 |
| %RSD | 4.3593 | 5.1508 | 3.2680 | .34543 | .79886 | .15487 | .15618 | .21899 | .79826 |
| #1 | .00192 | .00354 | .00510 | 2.6793 | 8.4763 | .03410 | 30.993 | .17953 | .00357 |
| #2 | .00204 | .00329 | .00534 | 2.6662 | 8.3810 | .03418 | 31.062 | .18008 | .00362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.417** | **.00749** | **.39333** | **.00789** | **62.284** | **.00027** | **-.00146** | **5.4353** | **-.00009** |
| Stddev | .129 | .00011 | .00292 | .00007 | .174 | .00041 | .00091 | .0041 | .00017 |
| %RSD | .24225 | 1.4732 | .74317 | .90602 | .27897 | 153.54 | 62.125 | .07513 | 176.89 |
| #1 | 53.508 | .00741 | .39540 | .00784 | 62.407 | -.00002 | -.00082 | 5.4324 | .00002 |
| #2 | 53.325 | .00756 | .39126 | .00794 | 62.161 | .00056 | -.00211 | 5.4382 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28657** | **.00423** | **.05237** | **.00042** | **-.00186** | **.00569** | **.02984** | **.00162** |
| Stddev | .00018 | .00166 | .00017 | .00037 | .00982 | .00049 | .00023 | .00088 |
| %RSD | .06118 | 39.118 | .31706 | 88.813 | 527.42 | 8.6513 | .76896 | 54.319 |
| #1 | .28670 | .00540 | .05249 | .00016 | -.00880 | .00604 | .02968 | .00100 |
| #2 | .28645 | .00306 | .05225 | .00068 | .00508 | .00534 | .03000 | .00224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6312.9** | **81980.** | **5839.5** |
| Stddev | 26.5 | 167. | 7.1 |
| %RSD | .41928 | .20328 | .12204 |
| #1 | 6294.2 | 81863. | 5844.6 |
| #2 | 6331.6 | 82098. | 5834.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 7:43:33 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00705** | **49.693** | **-.00348** | **-.00489** | **.00058** | **-.00010** | **1.0067** | **.00508** | **-.00085** | **.00234** | **-.00004** | **-.00076** | **50.174** |
| Stddev | .00023 | .449 | .00250 | .00030 | .00010 | .00002 | .0057 | .00233 | .00000 | .00029 | .00010 | .00044 | .126 |
| %RSD | 3.2293 | .90375 | 72.039 | 6.2042 | 17.044 | 18.324 | .57047 | 45.765 | .17964 | 12.396 | 247.84 | 57.827 | .25120 |
| #1 | .00721 | 49.376 | -.00171 | -.00468 | .00051 | -.00011 | 1.0027 | .00673 | -.00085 | .00255 | .00003 | -.00108 | 50.085 |
| #2 | .00689 | 50.011 | -.00525 | -.00511 | .00065 | -.00008 | 1.0108 | .00344 | -.00085 | .00214 | -.00011 | -.00045 | 50.263 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10641** | **.00514** | **-.01152** | **-.00068** | **-.00195** | **252.67** | **.00117** | **.00001** | **.00142** | **5.2282** | **-.00235** | **.00470** | **.01018** |
| Stddev | .01296 | .00002 | .00246 | .00006 | .00006 | 1.64 | .00010 | .00025 | .00084 | .0242 | .00247 | .00222 | .01601 |
| %RSD | 12.179 | .40939 | 21.312 | 8.2114 | 3.1802 | .65002 | 8.2287 | 1968.5 | 59.572 | .46222 | 105.05 | 47.173 | 157.32 |
| #1 | .11557 | .00515 | -.01326 | -.00072 | -.00191 | 251.51 | .00124 | -.00016 | .00201 | 5.2111 | -.00060 | .00627 | .02150 |
| #2 | .09724 | .00512 | -.00978 | -.00064 | -.00199 | 253.83 | .00110 | .00019 | .00082 | 5.2453 | -.00410 | .00313 | -.00114 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00026** | **5.2229** | **.00345** | **-.00263** | **10.001** | **-.00025** | **.00387** | **-.05149** |
| Stddev | .00028 | .00000 | .0046 | .00009 | .00146 | .064 | .00056 | .00005 | .00419 |
| %RSD | 51.054 | .55384 | .08889 | 2.6859 | 55.530 | .63849 | 218.23 | 1.4096 | 8.1292 |
| #1 | .00035 | .00026 | 5.2262 | .00339 | -.00160 | 10.046 | -.00065 | .00383 | -.05445 |
| #2 | .00075 | .00026 | 5.2196 | .00352 | -.00366 | 9.9554 | .00014 | .00391 | -.04853 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6277.5** | **80704.** | **5823.5** |
| Stddev | 12.8 | 59. | 69.8 |
| %RSD | .20441 | .07357 | 1.1982 |
| #1 | 6286.5 | 80662. | 5872.8 |
| #2 | 6268.4 | 80746. | 5774.1 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 7:46:02 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53789** | **.48235** | **1.0261** | **.49397** | **.51228** | **.48076** | **.00065** | **5.1048** | **.51789** | **.52060** | **.49698** | **.50201** | **2.4564** |
| Stddev | .00008 | .00045 | .0010 | .00016 | .00093 | .00077 | .00306 | .0005 | .00056 | .00039 | .00056 | .00101 | .0025 |
| %RSD | .01428 | .09389 | .10100 | .03202 | .18252 | .16010 | 473.54 | .01013 | .10750 | .07552 | .11365 | .20205 | .10344 |
| #1 | .53783 | .48268 | 1.0254 | .49408 | .51161 | .48022 | -.00152 | 5.1045 | .51828 | .52088 | .49658 | .50273 | 2.4582 |
| #2 | .53794 | .48203 | 1.0268 | .49386 | .51294 | .48131 | .00281 | 5.1052 | .51749 | .52032 | .49738 | .50129 | 2.4546 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.361** | **1.0329** | **21.188** | **.52948** | **.48735** | **5.2731** | **.50878** | **.97576** | **1.0330** | **.02625** | **1.0353** | **1.0040** | **4.9249** |
| Stddev | .282 | .0031 | .060 | .00145 | .00054 | .0007 | .00026 | .00444 | .0008 | .00080 | .0033 | .0001 | .0112 |
| %RSD | .54924 | .30439 | .28092 | .27362 | .10989 | .01367 | .05165 | .45499 | .07529 | 3.0488 | .31996 | .01281 | .22739 |
| #1 | 51.161 | 1.0307 | 21.230 | .53050 | .48698 | 5.2726 | .50859 | .97262 | 1.0325 | .02568 | 1.0377 | 1.0041 | 4.9329 |
| #2 | 51.560 | 1.0351 | 21.146 | .52846 | .48773 | 5.2737 | .50896 | .97890 | 1.0336 | .02681 | 1.0330 | 1.0039 | 4.9170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99239** | **.48522** | **.00324** | **.51860** | **.99237** | **-.00071** | **.50652** | **.54397** | **.50122** |
| Stddev | .00007 | .00083 | .00085 | .00038 | .00521 | .04288 | .00356 | .00012 | .00050 |
| %RSD | .00687 | .17179 | 26.322 | .07254 | .52459 | 6041.2 | .70189 | .02153 | .09960 |
| #1 | .99234 | .48463 | .00264 | .51887 | .99605 | .02961 | .50904 | .54389 | .50087 |
| #2 | .99243 | .48581 | .00385 | .51834 | .98869 | -.03103 | .50401 | .54405 | .50158 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6282.1** | **81064.** | **5717.3** |
| Stddev | 4.7 | 248. | 40.6 |
| %RSD | .07455 | .30552 | .71053 |
| #1 | 6285.4 | 80889. | 5746.0 |
| #2 | 6278.8 | 81239. | 5688.6 |

Sample Name: CCB Acquired: 5/15/2013 7:48:16 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **-.00032** | **-.00096** | F **-.00623** | **.00054** | **.00005** | **-.00095** | **-.01030** | **.00010** | **.00020** | **.00004** |
| Stddev | .00013 | .00003 | .00056 | .00039 | .00002 | .00002 | .00038 | .00120 | .00022 | .00005 | .00014 |
| %RSD | 15.732 | 9.8719 | 58.718 | 6.2118 | 4.5669 | 33.533 | 40.246 | 11.656 | 232.55 | 25.725 | 323.81 |
| #1 | .00076 | -.00030 | -.00136 | -.00595 | .00052 | .00004 | -.00068 | -.01115 | -.00006 | .00016 | -.00006 |
| #2 | .00095 | -.00034 | -.00056 | -.00650 | .00056 | .00007 | -.00122 | -.00945 | .00025 | .00023 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00179** | **.05312** | W **.00481** | **-.00218** | **.00002** | **.00002** | F **.33122** | **-.00030** | **-.00979** | **.00007** |
| Stddev | .00013 | .00290 | .02462 | .00250 | .00304 | .00006 | .00005 | .00090 | .00048 | .00095 | .00014 |
| %RSD | 526.61 | 161.63 | 46.355 | 52.068 | 139.62 | 375.20 | 243.87 | .27059 | 161.34 | 9.7156 | 197.60 |
| #1 | .00012 | .00384 | .03571 | .00304 | -.00003 | .00006 | .00006 | .33186 | .00004 | -.01046 | .00017 |
| #2 | -.00007 | -.00026 | .07053 | .00658 | -.00433 | -.00003 | -.00002 | .33059 | -.00063 | -.00912 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01885** | **-.00012** | **-.00162** | **.01904** | **-.00067** | **.00008** | **.00022** | **-.00013** | **-.00133** | **.01056** | **.00016** |
| Stddev | .00246 | .00009 | .00580 | .00206 | .00072 | .00004 | .00095 | .00023 | .00046 | .03504 | .00109 |
| %RSD | 13.030 | 77.293 | 358.91 | 10.833 | 107.36 | 53.434 | 433.85 | 177.16 | 34.430 | 331.89 | 662.64 |
| #1 | .02059 | -.00005 | -.00572 | .01758 | -.00016 | .00005 | -.00045 | .00003 | -.00166 | .03533 | .00094 |
| #2 | .01711 | -.00018 | .00249 | .02050 | -.00118 | .00011 | .00089 | -.00030 | -.00101 | -.01422 | -.00061 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00240** | **-.00023** |
| Stddev | .00014 | .00018 |
| %RSD | 5.8996 | 77.509 |
| #1 | .00230 | -.00036 |
| #2 | .00250 | -.00011 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6284.0** | **80900.** | **5666.8** |
| Stddev | 4.6 | 137. | 29.2 |
| %RSD | .07278 | .16903 | .51487 |
| #1 | 6287.2 | 80803. | 5646.2 |
| #2 | 6280.8 | 80997. | 5687.5 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 7:50:46 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01123** | **.09988** | **.01293** | **.09422** | **.01132** | **.00100** | **.10881** | **.21234** | **.00545** | **.01134** | **.01038** |
| Stddev | .00001 | .00054 | .00084 | .00055 | .00036 | .00004 | .00200 | .00091 | .00011 | .00010 | .00020 |
| %RSD | .13046 | .53566 | 6.5008 | .58235 | 3.2011 | 3.7408 | 1.8348 | .42848 | 1.9819 | .90859 | 1.9396 |
| #1 | .01124 | .09950 | .01352 | .09383 | .01158 | .00097 | .11022 | .21170 | .00537 | .01141 | .01023 |
| #2 | .01122 | .10026 | .01233 | .09461 | .01107 | .00103 | .10740 | .21298 | .00553 | .01127 | .01052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01490** | **.10460** | **3.2500** | F **.01520** | **.22526** | **.01117** | **.01952** | F **1.3395** | **.04251** | **2.9812** | **.00928** |
| Stddev | .00041 | .00011 | .0295 | .00288 | .00279 | .00002 | .00039 | .0103 | .00016 | .0205 | .00095 |
| %RSD | 2.7529 | .10299 | .90774 | 18.940 | 1.2382 | .21148 | 1.9843 | .76978 | .37541 | .68767 | 10.222 |
| #1 | .01519 | .10452 | 3.2291 | .01317 | .22329 | .01115 | .01924 | 1.3468 | .04240 | 2.9667 | .00861 |
| #2 | .01461 | .10468 | 3.2708 | .01724 | .22723 | .01119 | .01979 | 1.3322 | .04262 | 2.9957 | .00995 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01661** | **.00920** | **.01240** | **.51601** | **.10290** | **.01006** | **.01488** | **.01069** | **.01546** | F **.09810** | **.01047** |
| Stddev | .00257 | .00275 | .00116 | .01214 | .00033 | .00015 | .00088 | .00013 | .00158 | .00675 | .00027 |
| %RSD | 15.484 | 29.863 | 9.3493 | 2.3524 | .32259 | 1.4537 | 5.9239 | 1.1738 | 10.245 | 6.8773 | 2.5567 |
| #1 | .01479 | .01114 | .01158 | .52459 | .10313 | .00995 | .01426 | .01078 | .01658 | .10287 | .01066 |
| #2 | .01843 | .00726 | .01322 | .50743 | .10266 | .01016 | .01551 | .01060 | .01434 | .09333 | .01028 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02480** | **.01478** |
| Stddev | .00019 | .00127 |
| %RSD | .76852 | 8.6207 |
| #1 | .02467 | .01388 |
| #2 | .02494 | .01568 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6378.7** | **82989.** | **5746.4** |
| Stddev | 12.1 | 14. | 11.3 |
| %RSD | .19009 | .01628 | .19581 |
| #1 | 6387.3 | 82980. | 5754.3 |
| #2 | 6370.1 | 82999. | 5738.4 |

Sample Name: MB 280-173684/1-A Acquired: 5/15/2013 7:53:12 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00420** | **-.00045** | W **-.00681** | **.00061** | **-.00003** | **-.00010** | **.00081** | **.00003** |
| Stddev | .00013 | .00033 | .00318 | .00093 | .00025 | .00001 | .00507 | .00240 | .00011 |
| %RSD | 65.107 | 7.9256 | 699.19 | 13.669 | 41.725 | 39.258 | 5330.2 | 295.68 | 351.90 |
| #1 | .00028 | .00397 | -.00270 | -.00615 | .00043 | -.00002 | .00349 | .00251 | -.00005 |
| #2 | .00010 | .00444 | .00179 | -.00746 | .00079 | -.00004 | -.00368 | -.00089 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00008** | **-.00039** | **.01892** | **.01839** | W **.00547** | **.00429** | **.00020** | **-.00001** |
| Stddev | .00013 | .00019 | .00033 | .00156 | .00654 | .00002 | .00169 | .00002 | .00001 |
| %RSD | 50.816 | 250.80 | 86.733 | 8.2562 | 35.563 | .33086 | 39.285 | 10.157 | 284.34 |
| #1 | .00035 | .00021 | -.00062 | .01781 | .02302 | .00548 | .00549 | .00019 | .00001 |
| #2 | .00016 | -.00006 | -.00015 | .02002 | .01377 | .00546 | .00310 | .00022 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00500 | | | |
| Low Limit | | | | | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27456** | **.00008** | F **.19810** | **.00145** | **.01494** | **-.00043** | **-.00048** | **.03834** | **-.00056** |
| Stddev | .00641 | .00013 | .00123 | .00014 | .00217 | .00049 | .00012 | .02617 | .00048 |
| %RSD | 2.3352 | 164.13 | .61952 | 9.3307 | 14.558 | 113.27 | 25.044 | 68.257 | 87.299 |
| #1 | .27909 | -.00001 | .19896 | .00136 | .01340 | -.00009 | -.00056 | .01983 | -.00090 |
| #2 | .27003 | .00017 | .19723 | .00155 | .01647 | -.00077 | -.00039 | .05684 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00102** | **.00032** | **-.00211** | **-.00181** | **.00012** | **.00187** | **.00186** |
| Stddev | .00005 | .00118 | .00047 | .00051 | .01782 | .00010 | .00074 | .00154 |
| %RSD | 120.62 | 116.04 | 148.82 | 24.239 | 986.60 | 84.327 | 39.301 | 83.223 |
| #1 | .00001 | .00185 | .00065 | -.00175 | -.01441 | .00020 | .00239 | .00076 |
| #2 | .00008 | .00018 | -.00002 | -.00247 | .01080 | .00005 | .00135 | .00295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6450.1** | **83241.** | **5775.8** |
| Stddev | 19.1 | 461. | 2.3 |
| %RSD | .29554 | .55326 | .03956 |
| #1 | 6436.6 | 83566. | 5774.2 |
| #2 | 6463.5 | 82915. | 5777.4 |

Sample Name: LCS 280-173684/2-A Acquired: 5/15/2013 7:55:42 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.05863** | **1.8695** | **1.0464** | **1.0320** | **2.1044** | **.04941** | **2.1147** | **51.286** | **.10783** |
| Stddev | .00067 | .0003 | .0010 | .0024 | .0033 | .00004 | .0022 | .008 | .00025 |
| %RSD | 1.1513 | .01503 | .09655 | .23222 | .15477 | .07771 | .10457 | .01549 | .23382 |
| #1 | .05815 | 1.8697 | 1.0457 | 1.0303 | 2.1067 | .04938 | 2.1131 | 51.281 | .10765 |
| #2 | .05910 | 1.8693 | 1.0471 | 1.0337 | 2.1021 | .04944 | 2.1163 | 51.292 | .10801 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .05750 | | | | | | | | |
| Low Limit | .04300 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51897** | **.20189** | **.25560** | **.99026** | **52.812** | **1.0469** | **53.909** | **.53270** | **.98939** |
| Stddev | .00118 | .00027 | .00076 | .00074 | .055 | .0032 | .123 | .00132 | .00268 |
| %RSD | .22707 | .13561 | .29619 | .07518 | .10402 | .30440 | .22826 | .24819 | .27071 |
| #1 | .51814 | .20169 | .25507 | .99079 | 52.851 | 1.0447 | 53.822 | .53176 | .98750 |
| #2 | .51980 | .20208 | .25614 | .98973 | 52.773 | 1.0492 | 53.996 | .53363 | .99129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.023** | **.50555** | **10.503** | **.52005** | **.00551** | **.53158** | **2.0762** | **10.224** | **1.9998** |
| Stddev | .949 | .00044 | .037 | .00128 | .00019 | .00172 | .0003 | .031 | .0048 |
| %RSD | 1.7897 | .08657 | .34782 | .24626 | 3.4392 | .32286 | .01422 | .29876 | .23796 |
| #1 | 53.694 | .50524 | 10.477 | .51915 | .00538 | .53037 | 2.0759 | 10.246 | 1.9964 |
| #2 | 52.352 | .50586 | 10.529 | .52096 | .00564 | .53280 | 2.0764 | 10.203 | 2.0031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99069** | **1.0728** | **1.0521** | **1.9983** | **2.1344** | **.52165** | **.54629** | **.49782** |
| Stddev | .00281 | .0005 | .0040 | .0053 | .0018 | .00096 | .00256 | .00306 |
| %RSD | .28394 | .04656 | .37767 | .26650 | .08353 | .18329 | .46950 | .61537 |
| #1 | .99268 | 1.0725 | 1.0492 | 1.9946 | 2.1332 | .52097 | .54447 | .49998 |
| #2 | .98870 | 1.0732 | 1.0549 | 2.0021 | 2.1357 | .52233 | .54810 | .49565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6217.2** | **80285.** | **5714.0** |
| Stddev | 1.9 | 161. | 11.9 |
| %RSD | .03019 | .20111 | .20779 |
| #1 | 6218.6 | 80399. | 5722.4 |
| #2 | 6215.9 | 80171. | 5705.6 |

Sample Name: 280-42061-A-1-A  Acquired: 5/15/2013 7:57:55  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.03976** | **-.00048** | **.01550** | **.02540** | **.00012** | **-.00049** | **1.3104** | **.00007** |
| Stddev | .00109 | .00036 | .00060 | .00047 | .00022 | .00001 | .00134 | .0057 | .00023 |
| %RSD | 1720.0 | .89722 | 125.31 | 3.0188 | .88093 | 12.059 | 273.03 | .43169 | 347.63 |
| #1 | .00070 | .03951 | -.00005 | .01583 | .02555 | .00013 | .00046 | 1.3064 | -.00010 |
| #2 | -.00083 | .04001 | -.00090 | .01517 | .02524 | .00011 | -.00144 | 1.3144 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **-.00003** | **.00048** | **.01709** | **.41212** | **.00681** | **.71182** | **.00670** | **.00033** |
| Stddev | .00000 | .00011 | .00014 | .00022 | .03538 | .00141 | .00403 | .00003 | .00003 |
| %RSD | .32443 | 396.84 | 28.824 | 1.2899 | 8.5846 | 20.704 | .56587 | .43127 | 9.4597 |
| #1 | .00087 | -.00011 | .00039 | .01725 | .38710 | .00581 | .71467 | .00668 | .00031 |
| #2 | .00087 | .00005 | .00058 | .01694 | .43714 | .00781 | .70898 | .00672 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.1055** | **.00065** | **.17581** | **.00052** | **.28655** | **-.00099** | **-.00068** | **5.1505** | **.00022** |
| Stddev | .0775 | .00024 | .00153 | .00172 | .00167 | .00001 | .00062 | .0403 | .00067 |
| %RSD | .95598 | 37.243 | .86954 | 332.12 | .58395 | .65170 | 90.594 | .78235 | 310.27 |
| #1 | 8.1603 | .00082 | .17689 | -.00070 | .28537 | -.00099 | -.00024 | 5.1220 | .00069 |
| #2 | 8.0507 | .00048 | .17472 | .00173 | .28774 | -.00098 | -.00112 | 5.1790 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01071** | **.00166** | **-.00009** | **-.00032** | **.03854** | **-.00014** | **.00533** | **.00015** |
| Stddev | .00026 | .00023 | .00005 | .00022 | .02225 | .00030 | .00043 | .00059 |
| %RSD | 2.4725 | 14.072 | 58.190 | 68.360 | 57.733 | 207.76 | 8.0742 | 387.43 |
| #1 | .01089 | .00183 | -.00012 | -.00047 | .05428 | -.00035 | .00564 | -.00027 |
| #2 | .01052 | .00150 | -.00005 | -.00016 | .02281 | .00007 | .00503 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6400.3** | **82620.** | **5809.0** |
| Stddev | 6.5 | 180. | 37.8 |
| %RSD | .10143 | .21765 | .65120 |
| #1 | 6395.7 | 82493. | 5782.3 |
| #2 | 6404.9 | 82747. | 5835.8 |

Sample Name: sd 280-42061-A-1-A@5 Acquired: 5/15/2013 8:00:22 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.01000** | **-.00030** | **-.00183** | **.00680** | **.00004** | **.00089** | **.32056** | **-.00011** |
| Stddev | .00024 | .00014 | .00206 | .00065 | .00003 | .00001 | .00247 | .00199 | .00003 |
| %RSD | 273.50 | 1.4335 | 689.46 | 35.467 | .49469 | 15.504 | 277.11 | .62007 | 22.906 |
| #1 | .00026 | .00990 | -.00175 | -.00137 | .00682 | .00004 | -.00086 | .31915 | -.00013 |
| #2 | -.00008 | .01010 | .00116 | -.00229 | .00678 | .00003 | .00264 | .32197 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00006** | **-.00030** | **.01372** | **.09122** | **.00650** | **.17623** | **.00173** | **-.00008** |
| Stddev | .00005 | .00002 | .00005 | .00012 | .05430 | .00197 | .00172 | .00001 | .00008 |
| %RSD | 10.704 | 24.370 | 15.516 | .87215 | 59.527 | 30.273 | .97565 | .48384 | 99.759 |
| #1 | .00046 | .00005 | -.00027 | .01381 | .05282 | .00511 | .17745 | .00172 | -.00002 |
| #2 | .00040 | .00007 | -.00033 | .01364 | .12961 | .00790 | .17502 | .00173 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1064** | **-.00006** | **.03435** | **.00047** | **.06942** | **-.00292** | **-.00058** | **1.2126** | **-.00036** |
| Stddev | .0230 | .00001 | .00016 | .00288 | .00114 | .00083 | .00138 | .0034 | .00063 |
| %RSD | 1.0934 | 10.669 | .45157 | 614.00 | 1.6472 | 28.454 | 239.05 | .27889 | 175.57 |
| #1 | 2.1227 | -.00007 | .03446 | .00250 | .06861 | -.00351 | .00040 | 1.2150 | -.00081 |
| #2 | 2.0901 | -.00006 | .03425 | -.00157 | .07023 | -.00233 | -.00155 | 1.2102 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00267** | **.00125** | **.00009** | **-.00027** | **.03363** | **-.00012** | **.00466** | **.00071** |
| Stddev | .00001 | .00006 | .00012 | .00122 | .02808 | .00009 | .00046 | .00023 |
| %RSD | .35176 | 5.1630 | 125.12 | 446.29 | 83.494 | 79.852 | 9.7894 | 32.506 |
| #1 | .00266 | .00129 | .00001 | -.00113 | .05348 | -.00005 | .00498 | .00088 |
| #2 | .00267 | .00120 | .00017 | .00059 | .01377 | -.00018 | .00433 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6370.5** | **82489.** | **5771.6** |
| Stddev | 6.4 | 146. | 64.4 |
| %RSD | .10105 | .17686 | 1.1156 |
| #1 | 6375.1 | 82386. | 5726.1 |
| #2 | 6366.0 | 82592. | 5817.1 |

Sample Name: 280-42061-A-1-B MS  Acquired: 5/15/2013 8:02:50  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05515** | **1.7133** | **.95219** | **.97294** | **1.8883** | **.04370** | **1.9680** | **46.592** | **.09827** |
| Stddev | .00010 | .0027 | .00666 | .00098 | .0100 | .00005 | .0016 | .218 | .00017 |
| %RSD | .18374 | .15527 | .69979 | .10028 | .53111 | .12069 | .07975 | .46772 | .17232 |
| #1 | .05508 | 1.7114 | .95690 | .97225 | 1.8954 | .04373 | 1.9692 | 46.746 | .09815 |
| #2 | .05523 | 1.7152 | .94748 | .97363 | 1.8812 | .04366 | 1.9669 | 46.438 | .09839 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46081** | **.17783** | **.22619** | **.95399** | **48.141** | **.94549** | **48.396** | **.47809** | **.88630** |
| Stddev | .00025 | .00014 | .00077 | .00543 | .308 | .00396 | .030 | .00038 | .00092 |
| %RSD | .05346 | .07716 | .34094 | .56959 | .64049 | .41923 | .06136 | .07968 | .10424 |
| #1 | .46064 | .17774 | .22673 | .95784 | 48.359 | .94830 | 48.417 | .47782 | .88564 |
| #2 | .46098 | .17793 | .22564 | .95015 | 47.923 | .94269 | 48.375 | .47836 | .88695 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.206** | **.44871** | **9.5095** | **.47303** | **.29323** | **.48422** | **1.9059** | **14.724** | **1.8052** |
| Stddev | .315 | .00036 | .0012 | .00016 | .00444 | .00331 | .0081 | .030 | .0013 |
| %RSD | .56090 | .08128 | .01229 | .03347 | 1.5134 | .68354 | .42757 | .20389 | .07384 |
| #1 | 56.429 | .44845 | 9.5103 | .47315 | .29637 | .48656 | 1.9116 | 14.745 | 1.8042 |
| #2 | 55.983 | .44897 | 9.5087 | .47292 | .29010 | .48188 | 1.9001 | 14.703 | 1.8061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.88462** | **.94220** | **.93426** | **1.8525** | **1.8431** | **.46350** | **.49128** | **.44449** |
| Stddev | .00529 | .00234 | .00247 | .0022 | .0156 | .00080 | .00063 | .00186 |
| %RSD | .59809 | .24844 | .26411 | .11965 | .84860 | .17296 | .12862 | .41734 |
| #1 | .88836 | .94054 | .93252 | 1.8541 | 1.8542 | .46293 | .49173 | .44318 |
| #2 | .88087 | .94385 | .93601 | 1.8509 | 1.8321 | .46407 | .49084 | .44580 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6147.4** | **79514.** | **5697.8** |
| Stddev | 17.4 | 112. | 26.6 |
| %RSD | .28225 | .14034 | .46702 |
| #1 | 6159.7 | 79435. | 5679.0 |
| #2 | 6135.2 | 79592. | 5716.6 |

Sample Name: 280-42061-A-1-C MSD  Acquired: 5/15/2013 8:05:03  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05372** | **1.6427** | **.91243** | **.93728** | **1.7967** | **.04166** | **1.9068** | **44.353** | **.09459** |
| Stddev | .00101 | .0039 | .00080 | .00162 | .0114 | .00015 | .0013 | .194 | .00001 |
| %RSD | 1.8821 | .23895 | .08803 | .17313 | .63448 | .36973 | .06828 | .43656 | .01138 |
| #1 | .05444 | 1.6399 | .91186 | .93613 | 1.8047 | .04177 | 1.9059 | 44.490 | .09459 |
| #2 | .05301 | 1.6454 | .91300 | .93843 | 1.7886 | .04155 | 1.9077 | 44.216 | .09458 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44190** | **.17027** | **.21672** | **.84919** | **46.043** | **.90059** | **46.215** | **.45775** | **.85146** |
| Stddev | .00025 | .00005 | .00104 | .00140 | .252 | .00646 | .046 | .00001 | .00038 |
| %RSD | .05600 | .02843 | .48041 | .16529 | .54736 | .71750 | .09909 | .00228 | .04420 |
| #1 | .44173 | .17023 | .21746 | .85018 | 46.221 | .90516 | 46.248 | .45775 | .85119 |
| #2 | .44208 | .17030 | .21599 | .84820 | 45.864 | .89602 | 46.183 | .45774 | .85173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.095** | **.42982** | **9.1442** | **.45558** | **.27865** | **.46083** | **1.8265** | **14.152** | **1.7308** |
| Stddev | .097 | .00004 | .0040 | .00397 | .00399 | .00138 | .0159 | .010 | .0102 |
| %RSD | .17872 | .01030 | .04424 | .87168 | 1.4310 | .29908 | .87125 | .07199 | .59023 |
| #1 | 54.164 | .42979 | 9.1471 | .45839 | .27583 | .46181 | 1.8378 | 14.160 | 1.7380 |
| #2 | 54.027 | .42986 | 9.1414 | .45277 | .28147 | .45986 | 1.8153 | 14.145 | 1.7236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.84372** | **.90344** | **.89417** | **1.7946** | **1.7851** | **.44506** | **.46992** | **.42684** |
| Stddev | .00808 | .00329 | .00073 | .0089 | .0168 | .00066 | .00081 | .00073 |
| %RSD | .95711 | .36363 | .08213 | .49506 | .94186 | .14766 | .17278 | .17088 |
| #1 | .84943 | .90111 | .89366 | 1.8009 | 1.7970 | .44553 | .47049 | .42736 |
| #2 | .83801 | .90576 | .89469 | 1.7884 | 1.7732 | .44460 | .46935 | .42633 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6214.1** | **80000.** | **5767.1** |
| Stddev | 5.1 | 189. | 37.3 |
| %RSD | .08237 | .23576 | .64598 |
| #1 | 6210.4 | 80134. | 5740.8 |
| #2 | 6217.7 | 79867. | 5793.5 |

Sample Name: 280-42061-A-2-A Acquired: 5/15/2013 8:07:16 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.12833** | **.00042** | **.02849** | **.05729** | **.00010** | **.00046** | **3.6091** | **-.00004** |
| Stddev | .00024 | .00145 | .00019 | .00005 | .00043 | .00000 | .00077 | .0115 | .00006 |
| %RSD | 94.866 | 1.1269 | 46.535 | .19123 | .75441 | 4.3765 | 167.40 | .31898 | 134.52 |
| #1 | -.00043 | .12730 | .00056 | .02853 | .05759 | .00010 | -.00008 | 3.6010 | -.00008 |
| #2 | -.00008 | .12935 | .00028 | .02846 | .05698 | .00009 | .00100 | 3.6173 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **.00067** | **-.00010** | **.12520** | **.35860** | **.00694** | **1.8085** | **.00314** | **-.00001** |
| Stddev | .00004 | .00005 | .00072 | .00091 | .02122 | .00030 | .0082 | .00005 | .00038 |
| %RSD | 5.2793 | 7.8810 | 701.44 | .72422 | 5.9169 | 4.2653 | .45551 | 1.6176 | 4732.4 |
| #1 | .00074 | .00070 | -.00061 | .12456 | .37361 | .00673 | 1.8144 | .00317 | -.00028 |
| #2 | .00080 | .00063 | .00040 | .12584 | .34360 | .00715 | 1.8027 | .00310 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.679** | **.00081** | **.16206** | **.00055** | **.46316** | **-.00249** | **-.00241** | **6.7356** | **.00015** |
| Stddev | .168 | .00005 | .00024 | .00097 | .00078 | .00029 | .00108 | .0064 | .00026 |
| %RSD | .85518 | 6.4540 | .15051 | 176.28 | .16911 | 11.806 | 44.713 | .09554 | 174.94 |
| #1 | 19.560 | .00077 | .16189 | -.00013 | .46261 | -.00270 | -.00317 | 6.7311 | -.00003 |
| #2 | 19.798 | .00085 | .16223 | .00123 | .46371 | -.00228 | -.00165 | 6.7402 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02832** | **.00072** | **.00184** | **-.00031** | **.02454** | **.00037** | **.00378** | **.00064** |
| Stddev | .00003 | .00228 | .00033 | .00270 | .01518 | .00070 | .00014 | .00044 |
| %RSD | .10648 | 317.68 | 18.218 | 865.11 | 61.859 | 187.82 | 3.6778 | 68.054 |
| #1 | .02830 | -.00089 | .00208 | .00160 | .03528 | .00086 | .00368 | .00033 |
| #2 | .02835 | .00232 | .00160 | -.00222 | .01381 | -.00012 | .00388 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6363.2** | **82561.** | **5810.7** |
| Stddev | 20.8 | 505. | 16.0 |
| %RSD | .32693 | .61201 | .27465 |
| #1 | 6377.9 | 82203. | 5822.0 |
| #2 | 6348.5 | 82918. | 5799.4 |

Sample Name: 280-42061-A-3-A Acquired: 5/15/2013 8:09:42 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.05876** | **-.00092** | **.03010** | **.04894** | **.00020** | **-.00083** | **1.5294** | **.00013** |
| Stddev | .00061 | .00000 | .00024 | .00015 | .00000 | .00001 | .00111 | .0059 | .00002 |
| %RSD | 319.51 | .00145 | 25.617 | .50869 | .00051 | 3.4358 | 133.34 | .38496 | 11.283 |
| #1 | .00024 | .05876 | -.00075 | .03021 | .04894 | .00021 | -.00162 | 1.5252 | .00015 |
| #2 | -.00062 | .05876 | -.00109 | .02999 | .04894 | .00020 | -.00005 | 1.5335 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | **.00012** | **.00108** | **.00761** | **.63845** | **.00935** | **1.0760** | **.03547** | **.00007** |
| Stddev | .00009 | .00010 | .00022 | .00064 | .04125 | .00031 | .0063 | .00014 | .00025 |
| %RSD | 7.7400 | 84.428 | 20.768 | 8.4594 | 6.4604 | 3.3057 | .58958 | .40036 | 383.12 |
| #1 | .00105 | .00005 | .00124 | .00715 | .60929 | .00957 | 1.0805 | .03557 | .00025 |
| #2 | .00118 | .00019 | .00092 | .00807 | .66762 | .00913 | 1.0715 | .03537 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.281** | **.00123** | **.21739** | **.00087** | **.30342** | **-.00131** | **-.00310** | **6.4357** | **-.00076** |
| Stddev | .227 | .00009 | .00232 | .00097 | .00088 | .00024 | .00084 | .0148 | .00085 |
| %RSD | 1.3162 | 7.1295 | 1.0683 | 111.97 | .29122 | 18.098 | 27.089 | .23063 | 110.73 |
| #1 | 17.120 | .00117 | .21903 | .00155 | .30279 | -.00115 | -.00370 | 6.4462 | -.00136 |
| #2 | 17.442 | .00129 | .21575 | .00018 | .30404 | -.00148 | -.00251 | 6.4252 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01668** | **.00105** | **.00011** | **-.00054** | **.01645** | **.00034** | **.00780** | **.00084** |
| Stddev | .00002 | .00250 | .00030 | .00110 | .00828 | .00024 | .00027 | .00201 |
| %RSD | .11678 | 237.35 | 263.47 | 201.96 | 50.344 | 71.287 | 3.4927 | 238.92 |
| #1 | .01670 | .00282 | -.00010 | -.00132 | .01059 | .00017 | .00761 | -.00058 |
| #2 | .01667 | -.00071 | .00032 | .00023 | .02231 | .00051 | .00799 | .00227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6363.9** | **82513.** | **5794.7** |
| Stddev | 3.2 | 200. | 39.1 |
| %RSD | .04996 | .24203 | .67461 |
| #1 | 6361.6 | 82372. | 5767.0 |
| #2 | 6366.1 | 82655. | 5822.3 |

Sample Name: 280-42061-A-4-A  Acquired: 5/15/2013 8:12:08  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.02714** | **.00144** | **.02835** | **.05056** | **.00005** | **-.00090** | **3.5180** | **-.00003** |
| Stddev | .00056 | .00011 | .00046 | .00021 | .00026 | .00004 | .00104 | .0087 | .00013 |
| %RSD | 382.72 | .41309 | 31.820 | .72858 | .51376 | 72.375 | 115.34 | .24682 | 394.39 |
| #1 | .00055 | .02722 | .00112 | .02820 | .05074 | .00002 | -.00164 | 3.5241 | -.00013 |
| #2 | -.00025 | .02706 | .00177 | .02849 | .05038 | .00008 | -.00017 | 3.5119 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.00011** | **.00012** | **.03340** | **.24127** | **.00480** | **1.8034** | **.00136** | **-.00020** |
| Stddev | .00018 | .00015 | .00040 | .00143 | .06423 | .00208 | .0016 | .00001 | .00007 |
| %RSD | 22.375 | 127.65 | 336.74 | 4.2841 | 26.622 | 43.364 | .08804 | .57660 | 33.732 |
| #1 | .00067 | .00022 | -.00016 | .03441 | .19585 | .00333 | 1.8022 | .00136 | -.00015 |
| #2 | .00092 | .00001 | .00040 | .03239 | .28669 | .00627 | 1.8045 | .00137 | -.00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.518** | **.00090** | **.19469** | **.00037** | **.20105** | **.00041** | **-.00302** | **6.6261** | **-.00005** |
| Stddev | .287 | .00015 | .00340 | .00183 | .00119 | .00153 | .00107 | .0545 | .00035 |
| %RSD | 1.8526 | 16.550 | 1.7441 | 497.09 | .59278 | 378.10 | 35.510 | .82271 | 647.68 |
| #1 | 15.721 | .00101 | .19709 | .00166 | .20190 | -.00068 | -.00378 | 6.6646 | -.00030 |
| #2 | 15.314 | .00080 | .19229 | -.00092 | .20021 | .00149 | -.00226 | 6.5875 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02937** | **-.00076** | **.00013** | **-.00039** | **.01026** | **.00019** | **.00466** | **-.00157** |
| Stddev | .00010 | .00066 | .00000 | .00059 | .00912 | .00026 | .00023 | .00281 |
| %RSD | .33287 | 87.031 | .08961 | 151.56 | 88.847 | 134.31 | 4.9995 | 178.37 |
| #1 | .02944 | -.00029 | .00013 | .00003 | .01671 | .00001 | .00482 | .00041 |
| #2 | .02930 | -.00123 | .00013 | -.00081 | .00382 | .00037 | .00449 | -.00356 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6340.2** | **82190.** | **5756.2** |
| Stddev | 3.1 | 305. | 36.1 |
| %RSD | .04817 | .37094 | .62755 |
| #1 | 6338.0 | 81974. | 5730.7 |
| #2 | 6342.3 | 82405. | 5781.8 |

Sample Name: 280-42061-A-5-A Acquired: 5/15/2013 8:14:35 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.08749** | **.00128** | **.02134** | **.04759** | **.00011** | **.00119** | **3.0195** | **-.00006** |
| Stddev | .00074 | .00087 | .00186 | .00041 | .00001 | .00002 | .00027 | .0104 | .00007 |
| %RSD | 1409.0 | .99087 | 145.54 | 1.9018 | .01511 | 19.300 | 22.743 | .34511 | 130.65 |
| #1 | -.00047 | .08810 | .00259 | .02106 | .04758 | .00013 | .00100 | 3.0269 | -.00000 |
| #2 | .00057 | .08688 | -.00004 | .02163 | .04759 | .00010 | .00138 | 3.0122 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00080** | **.00023** | **-.00000** | **.11349** | **.31220** | **.00630** | **1.6280** | **.01110** | **-.00018** |
| Stddev | .00002 | .00009 | .00038 | .00034 | .06429 | .00207 | .0023 | .00002 | .00026 |
| %RSD | 1.9856 | 38.403 | 42719. | .30227 | 20.594 | 32.787 | .14106 | .19784 | 150.08 |
| #1 | .00079 | .00016 | -.00027 | .11373 | .26674 | .00777 | 1.6297 | .01112 | .00001 |
| #2 | .00081 | .00029 | .00027 | .11325 | .35766 | .00484 | 1.6264 | .01109 | -.00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.777** | **.00094** | **.19426** | **.00171** | **.21394** | **-.00248** | **-.00459** | **6.5919** | **-.00002** |
| Stddev | .571 | .00029 | .00192 | .00143 | .00036 | .00111 | .00251 | .0055 | .00070 |
| %RSD | 3.8656 | 30.381 | .98737 | 83.607 | .16596 | 44.986 | 54.602 | .08354 | 3002.2 |
| #1 | 15.181 | .00074 | .19562 | .00070 | .21369 | -.00327 | -.00637 | 6.5958 | -.00052 |
| #2 | 14.373 | .00114 | .19290 | .00272 | .21419 | -.00169 | -.00282 | 6.5880 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02425** | **.00094** | **.00122** | **-.00076** | **.02124** | **.00070** | **.00461** | **.00144** |
| Stddev | .00015 | .00127 | .00007 | .00069 | .02936 | .00026 | .00002 | .00173 |
| %RSD | .61834 | 135.43 | 5.3929 | 90.326 | 138.23 | 36.619 | .36089 | 120.46 |
| #1 | .02436 | .00184 | .00126 | -.00028 | .00048 | .00088 | .00459 | .00267 |
| #2 | .02414 | .00004 | .00117 | -.00125 | .04200 | .00052 | .00462 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6366.9** | **82405.** | **5747.6** |
| Stddev | 7.4 | 369. | 24.8 |
| %RSD | .11692 | .44726 | .43234 |
| #1 | 6361.6 | 82144. | 5730.0 |
| #2 | 6372.2 | 82665. | 5765.2 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 8:17:02 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00835** | **50.647** | **-.00228** | **-.00576** | **.03027** | **.00004** | **1.0211** | **.01768** | **-.00065** | **.00222** | **.00008** | **.00009** | **51.087** |
| Stddev | .00013 | .029 | .00351 | .00025 | .00000 | .00008 | .0044 | .00162 | .00015 | .00002 | .00017 | .00057 | .276 |
| %RSD | 1.5868 | .05640 | 154.13 | 4.3187 | .00987 | 185.41 | .43449 | 9.1554 | 23.513 | .82156 | 220.74 | 655.78 | .53938 |
| #1 | .00845 | 50.627 | -.00476 | -.00558 | .03028 | -.00001 | 1.0243 | .01882 | -.00054 | .00221 | .00020 | .00049 | 50.892 |
| #2 | .00826 | 50.668 | .00020 | -.00594 | .03027 | .00009 | 1.0180 | .01653 | -.00076 | .00223 | -.00004 | -.00031 | 51.281 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00773** | **.00624** | **-.00895** | **-.00071** | **-.00193** | **259.07** | **.00148** | **.00157** | **.00041** | **5.2863** | **-.00088** | **.00214** | **.01650** |
| Stddev | .05575 | .00363 | .00309 | .00012 | .00009 | .19 | .00021 | .00169 | .00097 | .0049 | .00069 | .00065 | .00100 |
| %RSD | 721.38 | 58.138 | 34.479 | 16.324 | 4.4735 | .07523 | 14.365 | 107.84 | 235.61 | .09231 | 77.502 | 30.238 | 6.0563 |
| #1 | -.03169 | .00881 | -.00677 | -.00079 | -.00199 | 258.94 | .00163 | .00037 | .00110 | 5.2898 | -.00137 | .00260 | .01721 |
| #2 | .04715 | .00368 | -.01114 | -.00063 | -.00187 | 259.21 | .00133 | .00276 | -.00027 | 5.2829 | -.00040 | .00169 | .01579 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.00088** | **5.2703** | **.00374** | **-.00249** | **10.179** | **-.00054** | **.00346** | **-.04801** |
| Stddev | .00022 | .00007 | .0024 | .00023 | .00239 | .034 | .00018 | .00002 | .00017 |
| %RSD | 25.570 | 7.8619 | .04535 | 6.2502 | 95.998 | .33233 | 33.825 | .57123 | .35114 |
| #1 | .00069 | .00093 | 5.2720 | .00357 | -.00418 | 10.203 | -.00067 | .00344 | -.04789 |
| #2 | .00099 | .00083 | 5.2686 | .00390 | -.00080 | 10.155 | -.00041 | .00347 | -.04813 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6154.9** | **79047.** | **5644.7** |
| Stddev | 1.5 | 320. | 7.3 |
| %RSD | .02461 | .40484 | .12967 |
| #1 | 6153.8 | 78821. | 5649.9 |
| #2 | 6155.9 | 79273. | 5639.5 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 8:19:31 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53979** | **.49249** | **1.0325** | **.50045** | **.51275** | **.48488** | **.00019** | **5.1390** | **.52045** | **.52306** | **.50282** | **.54588** |
| Stddev | .00061 | .00052 | .0029 | .00037 | .00498 | .00292 | .00045 | .0275 | .00021 | .00023 | .00028 | .00018 |
| %RSD | .11290 | .10544 | .27594 | .07333 | .97055 | .60175 | 235.71 | .53427 | .04110 | .04379 | .05636 | .03289 |
| #1 | .54022 | .49286 | 1.0305 | .50071 | .51627 | .48695 | -.00013 | 5.1584 | .52030 | .52290 | .50302 | .54601 |
| #2 | .53936 | .49213 | 1.0345 | .50019 | .50923 | .48282 | .00051 | 5.1196 | .52060 | .52322 | .50262 | .54575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4722** | **51.523** | **1.0369** | **21.587** | **.53488** | **.49259** | **5.1733** | **.51414** | **.99640** | **1.0372** | **.00475** | **1.0361** |
| Stddev | .0047 | .337 | .0069 | .022 | .00048 | .00034 | .0639 | .00026 | .00017 | .0007 | .00452 | .0016 |
| %RSD | .19017 | .65465 | .66771 | .10112 | .08959 | .06844 | 1.2342 | .05081 | .01755 | .07147 | 95.108 | .15402 |
| #1 | 2.4755 | 51.761 | 1.0418 | 21.571 | .53454 | .49235 | 5.2184 | .51395 | .99652 | 1.0366 | .00795 | 1.0349 |
| #2 | 2.4689 | 51.284 | 1.0321 | 21.602 | .53522 | .49283 | 5.1281 | .51432 | .99628 | 1.0377 | .00156 | 1.0372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0118** | **4.9636** | **.99990** | **.48993** | **.00240** | **.52244** | **.99293** | **.03528** | **.51580** | F **.55142** | **.50572** |
| Stddev | .0027 | .0389 | .00232 | .00461 | .00184 | .00055 | .00346 | .00942 | .00054 | .00004 | .00300 |
| %RSD | .26864 | .78390 | .23185 | .94022 | 76.544 | .10507 | .34863 | 26.687 | .10527 | .00802 | .59295 |
| #1 | 1.0099 | 4.9911 | .99826 | .49318 | .00370 | .52283 | .99048 | .02862 | .51541 | .55139 | .50360 |
| #2 | 1.0138 | 4.9360 | 1.0015 | .48667 | .00110 | .52205 | .99537 | .04194 | .51618 | .55145 | .50784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6208.9** | **80012.** | **5614.9** |
| Stddev | 8.4 | 138. | 44.3 |
| %RSD | .13545 | .17296 | .78835 |
| #1 | 6203.0 | 79914. | 5583.6 |
| #2 | 6214.9 | 80110. | 5646.2 |

Sample Name: CCB Acquired: 5/15/2013 8:21:44 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **-.00016** | **.00073** | F **-.00636** | W **.00063** | **-.00004** | **-.00062** | **-.00494** | **.00002** | **.00014** | **-.00006** |
| Stddev | .00045 | .00005 | .00092 | .00031 | .00008 | .00002 | .00093 | .00147 | .00019 | .00036 | .00017 |
| %RSD | 157.54 | 33.413 | 126.10 | 4.8899 | 12.445 | 37.136 | 150.43 | 29.790 | 1044.6 | 252.89 | 291.66 |
| #1 | -.00061 | -.00012 | .00008 | -.00658 | .00069 | -.00003 | -.00128 | -.00390 | -.00012 | .00040 | -.00018 |
| #2 | .00003 | -.00020 | .00138 | -.00614 | .00058 | -.00006 | .00004 | -.00599 | .00015 | -.00011 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00141** | **.02123** | W **.00472** | **.00017** | **-.00004** | **.00010** | F **.20862** | **-.00032** | **-.00545** | **.00067** |
| Stddev | .00002 | .00354 | .00450 | .00044 | .00188 | .00002 | .00010 | .00348 | .00002 | .00116 | .00029 |
| %RSD | 28.906 | 251.68 | 21.172 | 9.3162 | 1107.0 | 63.725 | 104.07 | 1.6674 | 6.2396 | 21.332 | 43.624 |
| #1 | .00006 | .00391 | .02441 | .00503 | -.00116 | -.00006 | .00018 | .20616 | -.00031 | -.00627 | .00087 |
| #2 | .00009 | -.00110 | .01805 | .00441 | .00150 | -.00002 | .00003 | .21108 | -.00033 | -.00463 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00519** | **-.00262** | **-.00032** | **.01070** | **-.00035** | **.00008** | **.00008** | **.00018** | **-.00086** | F **.06757** | **.00021** |
| Stddev | .00079 | .00000 | .00049 | .00414 | .00056 | .00005 | .00101 | .00001 | .00035 | .00305 | .00035 |
| %RSD | 15.252 | .17667 | 151.66 | 38.700 | 159.81 | 60.661 | 1340.7 | 8.1781 | 41.167 | 4.5100 | 171.17 |
| #1 | .00463 | -.00262 | -.00067 | .01362 | .00005 | .00012 | -.00064 | .00019 | -.00111 | .06541 | .00046 |
| #2 | .00575 | -.00263 | .00002 | .00777 | -.00074 | .00005 | .00079 | .00017 | -.00061 | .06972 | -.00004 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | | .05000 | |
| Low Limit | | | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00239** | **.00086** |
| Stddev | .00029 | .00236 |
| %RSD | 11.940 | 273.32 |
| #1 | .00219 | .00253 |
| #2 | .00259 | -.00081 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6185.7** | **80379.** | **5595.7** |
| Stddev | 16.9 | 80. | 4.6 |
| %RSD | .27272 | .09958 | .08277 |
| #1 | 6173.8 | 80323. | 5592.4 |
| #2 | 6197.6 | 80436. | 5599.0 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 8:24:14 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01069** | **.10195** | **.01495** | **.09454** | **.01115** | **.00093** | **.11105** | **.20933** | **.00548** | **.01139** | **.01052** |
| Stddev | .00051 | .00002 | .00158 | .00063 | .00011 | .00004 | .00089 | .00026 | .00012 | .00001 | .00003 |
| %RSD | 4.7791 | .01800 | 10.582 | .67112 | 1.0075 | 4.6366 | .79721 | .12631 | 2.1471 | .11822 | .28930 |
| #1 | .01105 | .10196 | .01606 | .09409 | .01123 | .00090 | .11043 | .20914 | .00539 | .01140 | .01050 |
| #2 | .01032 | .10194 | .01383 | .09499 | .01107 | .00096 | .11168 | .20952 | .00556 | .01138 | .01054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01577** | **.10837** | **3.2424** | F **.01636** | **.22946** | **.01138** | **.02009** | W **1.2450** | **.04305** | **3.0505** | **.00966** |
| Stddev | .00008 | .00313 | .0129 | .00278 | .00052 | .00003 | .00015 | .0129 | .00019 | .0065 | .00090 |
| %RSD | .49789 | 2.8840 | .39756 | 17.007 | .22461 | .23285 | .73276 | 1.0340 | .43390 | .21320 | 9.3538 |
| #1 | .01572 | .10616 | 3.2333 | .01439 | .22909 | .01136 | .01998 | 1.2359 | .04292 | 3.0459 | .00902 |
| #2 | .01583 | .11058 | 3.2515 | .01833 | .22982 | .01139 | .02019 | 1.2541 | .04319 | 3.0551 | .01030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00536** | **.00855** | W **.01112** | **.53965** | **.10367** | **.01018** | **.01760** | **.01032** | **.01460** | **.07025** | **.01072** |
| Stddev | .00402 | .00118 | .00122 | .01186 | .00097 | .00002 | .00141 | .00026 | .00035 | .01962 | .00025 |
| %RSD | 75.098 | 13.765 | 10.984 | 2.1985 | .93268 | .17975 | 8.0156 | 2.5421 | 2.3853 | 27.921 | 2.3568 |
| #1 | .00820 | .00771 | .01026 | .53126 | .10298 | .01017 | .01660 | .01051 | .01436 | .08412 | .01054 |
| #2 | .00251 | .00938 | .01198 | .54804 | .10435 | .01019 | .01860 | .01014 | .01485 | .05638 | .01090 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | -20.000% | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02619** | **.01489** |
| Stddev | .00046 | .00106 |
| %RSD | 1.7508 | 7.0860 |
| #1 | .02652 | .01414 |
| #2 | .02587 | .01564 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6317.2** | **79395.** | **5679.1** |
| Stddev | 6.3 | 1806. | 16.4 |
| %RSD | .09968 | 2.2745 | .28855 |
| #1 | 6312.7 | 78119. | 5690.7 |
| #2 | 6321.6 | 80672. | 5667.5 |

Sample Name: 280-42061-A-6-A  Acquired: 5/15/2013 8:26:39  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.02653** | **-.00010** | **.03409** | **.06614** | **.00005** | **-.00108** | **8.9724** | **-.00012** |
| Stddev | .00029 | .00084 | .00642 | .00020 | .00036 | .00000 | .00490 | .1080 | .00011 |
| %RSD | 115.87 | 3.1469 | 6522.8 | .58458 | .54183 | 2.7348 | 454.42 | 1.2038 | 95.310 |
| #1 | -.00004 | .02713 | .00444 | .03423 | .06640 | .00005 | .00238 | 9.0488 | -.00004 |
| #2 | -.00045 | .02594 | -.00464 | .03395 | .06589 | .00005 | -.00454 | 8.8960 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00120** | **.00056** | **.00100** | **.25514** | **.53138** | **.00734** | **2.1232** | **.03920** | **.00017** |
| Stddev | .00027 | .00007 | .00005 | .00033 | .05464 | .00074 | .0072 | .00004 | .00013 |
| %RSD | 22.199 | 11.866 | 4.7939 | .12884 | 10.282 | 10.083 | .34028 | .09063 | 79.089 |
| #1 | .00139 | .00061 | .00103 | .25537 | .49275 | .00787 | 2.1283 | .03922 | .00007 |
| #2 | .00101 | .00052 | .00096 | .25491 | .57001 | .00682 | 2.1181 | .03917 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.596** | **.00241** | **.15593** | **.00311** | **.21627** | **-.00112** | **-.00127** | **6.0299** | **.00016** |
| Stddev | .072 | .00009 | .00212 | .00058 | .00449 | .00023 | .00023 | .0131 | .00074 |
| %RSD | .27037 | 3.8898 | 1.3585 | 18.562 | 2.0761 | 20.645 | 18.057 | .21757 | 461.24 |
| #1 | 26.647 | .00235 | .15743 | .00270 | .21310 | -.00096 | -.00111 | 6.0391 | .00068 |
| #2 | 26.545 | .00248 | .15443 | .00352 | .21945 | -.00129 | -.00144 | 6.0206 | -.00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04347** | **.00145** | **-.00001** | **-.00065** | **.01538** | **-.00036** | **.00968** | **-.00060** |
| Stddev | .00005 | .00063 | .00021 | .00052 | .00926 | .00002 | .00010 | .00172 |
| %RSD | .11308 | 43.849 | 3053.3 | 81.220 | 60.211 | 4.3700 | 1.0806 | 287.51 |
| #1 | .04351 | .00100 | .00014 | -.00027 | .00883 | -.00035 | .00975 | .00062 |
| #2 | .04344 | .00189 | -.00016 | -.00102 | .02192 | -.00037 | .00960 | -.00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6301.8** | **81758.** | **5725.5** |
| Stddev | 2.1 | 199. | 68.8 |
| %RSD | .03301 | .24394 | 1.2011 |
| #1 | 6300.3 | 81617. | 5676.9 |
| #2 | 6303.2 | 81899. | 5774.2 |

Sample Name: 280-42061-A-7-A Acquired: 5/15/2013 8:29:06 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.04120** | **-.00117** | **.02855** | **.07177** | **.00009** | **-.00142** | **5.6685** | **.00006** |
| Stddev | .00051 | .00008 | .00101 | .00027 | .00003 | .00005 | .00048 | .0176 | .00016 |
| %RSD | 643.36 | .19257 | 86.075 | .95683 | .03629 | 55.483 | 34.178 | .31119 | 254.81 |
| #1 | -.00044 | .04125 | -.00188 | .02836 | .07175 | .00012 | -.00176 | 5.6561 | -.00005 |
| #2 | .00028 | .04114 | -.00046 | .02874 | .07179 | .00005 | -.00107 | 5.6810 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00112** | **.00341** | **.00074** | **.08322** | **.10331** | **.00687** | **2.6901** | **.00273** | **.00001** |
| Stddev | .00005 | .00006 | .00013 | .00221 | .02407 | .00070 | .0147 | .00002 | .00004 |
| %RSD | 4.3125 | 1.8888 | 16.964 | 2.6525 | 23.302 | 10.163 | .54818 | .75322 | 350.31 |
| #1 | .00108 | .00337 | .00065 | .08478 | .12033 | .00736 | 2.7006 | .00272 | .00004 |
| #2 | .00115 | .00346 | .00083 | .08166 | .08629 | .00638 | 2.6797 | .00274 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.448** | **.00182** | **.14649** | **.00133** | **.25754** | **-.00069** | **.00295** | **5.8939** | **-.00029** |
| Stddev | .065 | .00023 | .00011 | .00231 | .00222 | .00183 | .00003 | .0248 | .00001 |
| %RSD | .26558 | 12.546 | .07379 | 173.81 | .86007 | 266.48 | 1.1848 | .42020 | 4.4660 |
| #1 | 24.493 | .00166 | .14657 | .00297 | .25597 | -.00198 | .00298 | 5.9114 | -.00028 |
| #2 | 24.402 | .00198 | .14642 | -.00030 | .25911 | .00061 | .00293 | 5.8763 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04429** | **.00027** | **.00033** | **-.00077** | **.01488** | **.00036** | **.01087** | **.00015** |
| Stddev | .00014 | .00094 | .00000 | .00064 | .02964 | .00044 | .00050 | .00246 |
| %RSD | .31455 | 349.95 | .83067 | 83.209 | 199.15 | 121.05 | 4.6257 | 1621.5 |
| #1 | .04439 | -.00039 | .00033 | -.00032 | .03584 | .00005 | .01122 | -.00158 |
| #2 | .04420 | .00093 | .00033 | -.00122 | -.00608 | .00067 | .01051 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6325.4** | **81925.** | **5727.8** |
| Stddev | 6.6 | 206. | 14.6 |
| %RSD | .10508 | .25155 | .25520 |
| #1 | 6330.1 | 81779. | 5738.2 |
| #2 | 6320.7 | 82071. | 5717.5 |

Sample Name: 280-42061-A-8-A Acquired: 5/15/2013 8:31:33 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.01248** | **-.00059** | **.03568** | **.11208** | **.00015** | **-.00243** | **9.3038** | **-.00014** |
| Stddev | .00010 | .00019 | .00161 | .00057 | .00000 | .00002 | .00147 | .0073 | .00012 |
| %RSD | 22.961 | 1.5163 | 271.58 | 1.5961 | .00246 | 16.008 | 60.629 | .07860 | 88.557 |
| #1 | -.00037 | .01234 | -.00173 | .03528 | .11208 | .00017 | -.00139 | 9.2986 | -.00005 |
| #2 | -.00051 | .01261 | .00055 | .03608 | .11208 | .00014 | -.00347 | 9.3089 | -.00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **.00019** | **.00057** | **.01969** | **.29494** | **.00772** | **4.0249** | **.00215** | **-.00026** |
| Stddev | .00019 | .00010 | .00017 | .00096 | .01122 | .00219 | .0021 | .00006 | .00004 |
| %RSD | 12.749 | 55.288 | 30.293 | 4.8884 | 3.8050 | 28.396 | .05133 | 2.7761 | 13.288 |
| #1 | .00133 | .00012 | .00044 | .01901 | .30288 | .00617 | 4.0264 | .00219 | -.00024 |
| #2 | .00159 | .00026 | .00069 | .02037 | .28701 | .00927 | 4.0235 | .00211 | -.00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **33.682** | **.00136** | **.13466** | **.00030** | **.25844** | **-.00185** | **-.00295** | **7.4968** | **.00009** |
| Stddev | .105 | .00003 | .00008 | .00093 | .00323 | .00179 | .00184 | .0296 | .00020 |
| %RSD | .31064 | 2.0439 | .06007 | 310.32 | 1.2492 | 96.954 | 62.202 | .39528 | 214.74 |
| #1 | 33.756 | .00134 | .13460 | .00096 | .25616 | -.00058 | -.00425 | 7.5177 | -.00005 |
| #2 | 33.608 | .00137 | .13472 | -.00036 | .26072 | -.00312 | -.00165 | 7.4758 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06410** | **.00039** | **-.00001** | **-.00108** | **.01241** | **-.00011** | **.00565** | **-.00018** |
| Stddev | .00016 | .00021 | .00047 | .00030 | .04126 | .00068 | .00040 | .00150 |
| %RSD | .25713 | 54.580 | 3205.5 | 27.624 | 332.51 | 605.43 | 7.0754 | 825.07 |
| #1 | .06398 | .00054 | .00032 | -.00129 | -.01677 | .00037 | .00593 | .00088 |
| #2 | .06422 | .00024 | -.00035 | -.00087 | .04158 | -.00059 | .00537 | -.00124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6317.5** | **81535.** | **5697.1** |
| Stddev | 18.8 | 12. | 4.2 |
| %RSD | .29715 | .01528 | .07456 |
| #1 | 6304.2 | 81543. | 5694.1 |
| #2 | 6330.7 | 81526. | 5700.1 |

Sample Name: 280-42061-A-9-A  Acquired: 5/15/2013 8:34:02  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.01826** | **.00039** | **.02014** | **.04043** | **.00014** | **-.00308** | **2.4511** | **.00005** |
| Stddev | .00028 | .00004 | .00104 | .00074 | .00046 | .00002 | .00093 | .0070 | .00025 |
| %RSD | 188.96 | .24342 | 264.10 | 3.6634 | 1.1346 | 12.934 | 30.136 | .28716 | 489.00 |
| #1 | -.00005 | .01823 | .00113 | .02066 | .04075 | .00012 | -.00374 | 2.4561 | -.00012 |
| #2 | .00034 | .01830 | -.00034 | .01962 | .04011 | .00015 | -.00243 | 2.4461 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **.00009** | **.00044** | **.01130** | **.24915** | **.00579** | **1.5337** | **.00220** | **-.00004** |
| Stddev | .00028 | .00009 | .00008 | .00138 | .01070 | .00107 | .0003 | .00003 | .00004 |
| %RSD | 30.033 | 96.480 | 17.600 | 12.202 | 4.2937 | 18.474 | .01697 | 1.2523 | 118.73 |
| #1 | .00112 | .00015 | .00039 | .01228 | .25671 | .00655 | 1.5335 | .00218 | -.00006 |
| #2 | .00073 | .00003 | .00050 | .01033 | .24158 | .00503 | 1.5339 | .00221 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.136** | **.00055** | **.12535** | **.00148** | **.26625** | **-.00253** | **.00061** | **5.7688** | **-.00010** |
| Stddev | .070 | .00003 | .00045 | .00006 | .00281 | .00012 | .00137 | .0493 | .00020 |
| %RSD | .40834 | 4.6729 | .35700 | 3.7837 | 1.0566 | 4.8776 | 224.40 | .85473 | 203.60 |
| #1 | 17.185 | .00056 | .12504 | .00144 | .26824 | -.00262 | -.00036 | 5.8037 | .00004 |
| #2 | 17.086 | .00053 | .12567 | .00152 | .26427 | -.00244 | .00158 | 5.7340 | -.00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02307** | **-.00044** | **-.00000** | **-.00019** | **.01809** | **-.00029** | **.00380** | **-.00007** |
| Stddev | .00016 | .00175 | .00059 | .00014 | .01921 | .00013 | .00023 | .00052 |
| %RSD | .70162 | 400.15 | 16516. | 75.068 | 106.20 | 45.371 | 5.9902 | 707.61 |
| #1 | .02319 | .00080 | -.00042 | -.00028 | .00451 | -.00039 | .00396 | .00029 |
| #2 | .02296 | -.00167 | .00041 | -.00009 | .03168 | -.00020 | .00364 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6305.3** | **81938.** | **5678.3** |
| Stddev | 4.1 | 233. | 37.1 |
| %RSD | .06496 | .28395 | .65258 |
| #1 | 6302.4 | 81773. | 5652.1 |
| #2 | 6308.2 | 82102. | 5704.5 |

Sample Name: 280-42061-A-10-A  Acquired: 5/15/2013 8:36:28  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.04131** | **.00131** | **.03587** | **.06110** | **.00020** | **-.00247** | **2.1744** | **.00002** |
| Stddev | .00061 | .00025 | .00049 | .00021 | .00014 | .00001 | .00159 | .0064 | .00005 |
| %RSD | 28288. | .59425 | 37.503 | .58613 | .22287 | 3.2912 | 64.329 | .29497 | 305.64 |
| #1 | .00043 | .04148 | .00166 | .03602 | .06120 | .00020 | -.00360 | 2.1699 | .00005 |
| #2 | -.00043 | .04114 | .00096 | .03572 | .06100 | .00021 | -.00135 | 2.1789 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00224** | **.00012** | **.00052** | **.13615** | **2.0632** | **.00842** | **1.1453** | **.00747** | **.00009** |
| Stddev | .00036 | .00009 | .00035 | .00276 | .0037 | .00008 | .0027 | .00001 | .00015 |
| %RSD | 16.211 | 77.001 | 66.392 | 2.0270 | .18038 | .96012 | .23130 | .16165 | 162.89 |
| #1 | .00198 | .00005 | .00028 | .13420 | 2.0658 | .00848 | 1.1434 | .00746 | -.00001 |
| #2 | .00250 | .00018 | .00077 | .13810 | 2.0606 | .00837 | 1.1472 | .00748 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.649** | **.00180** | **.13468** | **.00133** | **.49154** | **-.00184** | **.00037** | **9.1243** | **-.00045** |
| Stddev | .383 | .00007 | .00006 | .00259 | .00193 | .00099 | .00434 | .0551 | .00005 |
| %RSD | 1.6918 | 3.9537 | .04561 | 195.76 | .39166 | 53.832 | 1166.3 | .60417 | 10.350 |
| #1 | 22.920 | .00175 | .13473 | -.00051 | .49290 | -.00254 | -.00270 | 9.0853 | -.00048 |
| #2 | 22.378 | .00185 | .13464 | .00316 | .49018 | -.00114 | .00344 | 9.1633 | -.00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01904** | **-.00120** | **.00091** | **-.00002** | **.02562** | **.00023** | **.00751** | **.00009** |
| Stddev | .00009 | .00174 | .00006 | .00032 | .00355 | .00005 | .00022 | .00121 |
| %RSD | .49361 | 145.52 | 6.4952 | 1819.9 | 13.842 | 22.628 | 2.9625 | 1284.3 |
| #1 | .01910 | -.00243 | .00096 | -.00025 | .02813 | .00020 | .00735 | .00095 |
| #2 | .01897 | .00003 | .00087 | .00021 | .02311 | .00027 | .00766 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6311.8** | **81748.** | **5688.4** |
| Stddev | 6.0 | 18. | 24.0 |
| %RSD | .09445 | .02239 | .42131 |
| #1 | 6316.0 | 81735. | 5671.5 |
| #2 | 6307.6 | 81761. | 5705.4 |

Sample Name: 280-42061-A-11-A Acquired: 5/15/2013 8:38:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **.01714** | **-.00107** | **.03430** | **.04412** | **.00004** | **-.00307** | **2.7719** | **-.00002** |
| Stddev | .00048 | .00028 | .00128 | .00016 | .00001 | .00016 | .00192 | .0079 | .00023 |
| %RSD | 95.192 | 1.6110 | 119.68 | .47740 | .02651 | 361.15 | 62.688 | .28432 | 1055.6 |
| #1 | -.00016 | .01734 | -.00197 | .03419 | .04413 | .00015 | -.00443 | 2.7774 | -.00019 |
| #2 | -.00084 | .01695 | -.00016 | .03442 | .04412 | -.00007 | -.00171 | 2.7663 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.00012** | **-.00018** | **.02048** | **.18405** | **.00458** | **1.3755** | **.00155** | **-.00032** |
| Stddev | .00001 | .00003 | .00077 | .00222 | .03215 | .00110 | .0019 | .00008 | .00013 |
| %RSD | 1.3015 | 21.251 | 423.40 | 10.858 | 17.469 | 23.979 | .13537 | 5.1639 | 40.723 |
| #1 | .00080 | .00010 | -.00072 | .02206 | .16131 | .00535 | 1.3768 | .00160 | -.00023 |
| #2 | .00079 | .00014 | .00036 | .01891 | .20678 | .00380 | 1.3742 | .00149 | -.00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.953** | **.00101** | **.13173** | **-.00102** | **.35996** | **-.00205** | **-.00256** | **6.5183** | **.00003** |
| Stddev | .083 | .00001 | .00033 | .00178 | .00070 | .00112 | .00068 | .0181 | .00006 |
| %RSD | .51761 | 1.1065 | .25280 | 174.63 | .19462 | 54.634 | 26.650 | .27740 | 186.75 |
| #1 | 15.895 | .00102 | .13197 | -.00227 | .36046 | -.00285 | -.00304 | 6.5310 | -.00001 |
| #2 | 16.012 | .00100 | .13149 | .00024 | .35947 | -.00126 | -.00208 | 6.5055 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02303** | **-.00067** | **-.00009** | **.00024** | **.00883** | **.00043** | **.00297** | **.00175** |
| Stddev | .00005 | .00207 | .00014 | .00001 | .01725 | .00035 | .00045 | .00264 |
| %RSD | .21482 | 307.52 | 154.83 | 5.0170 | 195.31 | 81.998 | 15.312 | 150.38 |
| #1 | .02306 | .00079 | -.00019 | .00025 | -.00337 | .00068 | .00265 | .00362 |
| #2 | .02299 | -.00214 | .00001 | .00023 | .02103 | .00018 | .00329 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6312.1** | **81666.** | **5606.5** |
| Stddev | 22.8 | 277. | 97.5 |
| %RSD | .36047 | .33862 | 1.7390 |
| #1 | 6328.2 | 81471. | 5537.6 |
| #2 | 6296.0 | 81862. | 5675.5 |

Sample Name: 280-42061-A-12-A  Acquired: 5/15/2013 8:41:23  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.03620** | **.00102** | **.01165** | **.02519** | **.00006** | **-.00298** | **1.2453** | **-.00013** |
| Stddev | .00021 | .00011 | .00147 | .00052 | .00030 | .00006 | .00087 | .0096 | .00017 |
| %RSD | 253.84 | .31583 | 144.24 | 4.4551 | 1.1919 | 99.186 | 29.377 | .76911 | 132.35 |
| #1 | -.00007 | .03628 | .00206 | .01202 | .02540 | .00010 | -.00236 | 1.2385 | -.00001 |
| #2 | .00023 | .03612 | -.00002 | .01128 | .02498 | .00002 | -.00360 | 1.2521 | -.00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **.00007** | **-.00015** | **.13430** | **.18607** | **.00462** | **.76339** | **.00572** | **-.00017** |
| Stddev | .00003 | .00014 | .00002 | .00037 | .03669 | .00217 | .00397 | .00004 | .00032 |
| %RSD | 3.5033 | 196.47 | 10.515 | .27478 | 19.718 | 46.948 | .52069 | .74893 | 186.15 |
| #1 | .00093 | .00016 | -.00016 | .13456 | .21201 | .00615 | .76620 | .00575 | .00005 |
| #2 | .00098 | -.00003 | -.00014 | .13403 | .16012 | .00309 | .76058 | .00569 | -.00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.0386** | **.00112** | **.12764** | **.00101** | **.32298** | **-.00088** | **-.00391** | **5.3491** | **-.00001** |
| Stddev | .0314 | .00001 | .00336 | .00178 | .00031 | .00065 | .00346 | .0003 | .00002 |
| %RSD | .39100 | .97589 | 2.6318 | 175.88 | .09505 | 73.839 | 88.625 | .00495 | 170.03 |
| #1 | 8.0609 | .00112 | .13002 | -.00025 | .32320 | -.00042 | -.00636 | 5.3489 | .00000 |
| #2 | 8.0164 | .00111 | .12527 | .00227 | .32276 | -.00134 | -.00146 | 5.3493 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01160** | **-.00128** | **.00022** | **-.00078** | **.01109** | **.00035** | **.00380** | **-.00133** |
| Stddev | .00009 | .00249 | .00033 | .00011 | .02856 | .00038 | .00041 | .00195 |
| %RSD | .76218 | 194.33 | 153.37 | 13.573 | 257.51 | 108.33 | 10.732 | 146.80 |
| #1 | .01166 | -.00304 | -.00002 | -.00070 | .03129 | .00008 | .00408 | -.00270 |
| #2 | .01154 | .00048 | .00045 | -.00085 | -.00910 | .00062 | .00351 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6330.0** | **81716.** | **5681.4** |
| Stddev | 12.5 | 432. | .4 |
| %RSD | .19698 | .52909 | .00696 |
| #1 | 6338.9 | 81411. | 5681.1 |
| #2 | 6321.2 | 82022. | 5681.7 |

Sample Name: 280-42061-A-13-A  Acquired: 5/15/2013 8:43:50  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.05762** | **-.00094** | **.02688** | **.04700** | **.00024** | **-.00050** | **1.4617** | **.00007** |
| Stddev | .00127 | .00035 | .00017 | .00007 | .00039 | .00001 | .00078 | .0020 | .00004 |
| %RSD | 412.41 | .61433 | 17.870 | .26040 | .83078 | 5.6081 | 154.40 | .13812 | 50.765 |
| #1 | .00059 | .05788 | -.00082 | .02693 | .04673 | .00023 | -.00105 | 1.4602 | .00005 |
| #2 | -.00120 | .05737 | -.00106 | .02683 | .04728 | .00025 | .00005 | 1.4631 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **.00016** | **.00121** | **.01751** | **.52294** | **.00746** | **1.0403** | **.03455** | **-.00016** |
| Stddev | .00028 | .00007 | .00016 | .00115 | .03060 | .00173 | .0016 | .00023 | .00003 |
| %RSD | 22.797 | 44.443 | 13.377 | 6.5581 | 5.8512 | 23.160 | .15760 | .65409 | 19.341 |
| #1 | .00102 | .00011 | .00132 | .01670 | .50131 | .00624 | 1.0391 | .03439 | -.00018 |
| #2 | .00141 | .00021 | .00109 | .01832 | .54458 | .00868 | 1.0414 | .03471 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **16.375** | **.00122** | **.19829** | **.00114** | **.29522** | **-.00108** | **-.00350** | **6.2421** | **-.00031** |
| Stddev | .537 | .00018 | .00089 | .00005 | .00065 | .00118 | .00299 | .0256 | .00004 |
| %RSD | 3.2814 | 14.398 | .45048 | 4.5706 | .22007 | 109.27 | 85.335 | .40936 | 14.201 |
| #1 | 15.995 | .00110 | .19766 | .00118 | .29476 | -.00191 | -.00561 | 6.2240 | -.00034 |
| #2 | 16.755 | .00135 | .19892 | .00111 | .29568 | -.00025 | -.00139 | 6.2601 | -.00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01621** | **-.00133** | **-.00044** | **-.00053** | **.02713** | **.00043** | **.00508** | **-.00067** |
| Stddev | .00003 | .00021 | .00027 | .00013 | .00723 | .00062 | .00035 | .00126 |
| %RSD | .17735 | 15.682 | 60.571 | 25.136 | 26.661 | 143.52 | 6.9578 | 186.54 |
| #1 | .01623 | -.00148 | -.00063 | -.00062 | .03225 | -.00001 | .00483 | -.00156 |
| #2 | .01618 | -.00118 | -.00025 | -.00043 | .02202 | .00087 | .00533 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6302.0** | **81485.** | **5665.0** |
| Stddev | 5.7 | 107. | 17.3 |
| %RSD | .09058 | .13124 | .30475 |
| #1 | 6298.0 | 81409. | 5652.8 |
| #2 | 6306.0 | 81560. | 5677.2 |

Sample Name: 280-42061-A-14-A  Acquired: 5/15/2013 8:46:17  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173684 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00215** | **.00151** | **-.00769** | **.00058** | **.00011** | **.00034** | **.01201** | **.00010** |
| Stddev | .00041 | .00001 | .00050 | .00078 | .00030 | .00001 | .00108 | .00208 | .00001 |
| %RSD | 205.33 | .57246 | 32.957 | 10.156 | 50.768 | 12.819 | 321.81 | 17.303 | 9.0519 |
| #1 | -.00009 | .00216 | .00186 | -.00714 | .00037 | .00010 | -.00043 | .01054 | .00009 |
| #2 | .00050 | .00214 | .00116 | -.00824 | .00079 | .00011 | .00110 | .01348 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **-.00003** | **.00015** | **.00368** | **-.01914** | **.00327** | **.00160** | **.00021** | **.00001** |
| Stddev | .00001 | .00011 | .00087 | .00302 | .04517 | .00174 | .00018 | .00006 | .00006 |
| %RSD | 5.2384 | 353.94 | 576.87 | 81.925 | 235.93 | 53.129 | 11.352 | 31.126 | 552.60 |
| #1 | .00017 | .00005 | .00076 | .00581 | .01279 | .00450 | .00147 | .00016 | -.00003 |
| #2 | .00016 | -.00011 | -.00046 | .00155 | -.05108 | .00204 | .00173 | .00025 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20918** | **.00002** | **.20110** | **-.00064** | **.00452** | **-.00214** | **-.00095** | **.04143** | **.00056** |
| Stddev | .00660 | .00007 | .00077 | .00012 | .00046 | .00109 | .00223 | .00429 | .00021 |
| %RSD | 3.1561 | 306.78 | .38426 | 18.040 | 10.088 | 51.001 | 234.95 | 10.348 | 37.880 |
| #1 | .20452 | -.00003 | .20164 | -.00072 | .00484 | -.00137 | .00063 | .04447 | .00071 |
| #2 | .21385 | .00008 | .20055 | -.00056 | .00420 | -.00291 | -.00252 | .03840 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00080** | **.00015** | **-.00150** | **.00990** | **.00018** | **.00272** | **-.00073** |
| Stddev | .00004 | .00307 | .00081 | .00041 | .01084 | .00006 | .00022 | .00241 |
| %RSD | 57.547 | 382.58 | 549.47 | 27.316 | 109.46 | 31.706 | 8.0146 | 331.38 |
| #1 | -.00004 | -.00137 | -.00042 | -.00179 | .01756 | .00014 | .00287 | -.00243 |
| #2 | -.00010 | .00297 | .00072 | -.00121 | .00224 | .00022 | .00257 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6324.6** | **81831.** | **5685.5** |
| Stddev | 18.7 | 370. | 17.4 |
| %RSD | .29550 | .45167 | .30680 |
| #1 | 6337.8 | 81569. | 5673.2 |
| #2 | 6311.4 | 82092. | 5697.9 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 8:48:45 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00782** | **50.118** | **-.00128** | **-.00709** | **.00082** | **-.00006** | **1.0117** | **-.00334** | **-.00078** | **.00221** | **-.00006** | **.00118** | **50.484** |
| Stddev | .00001 | .071 | .00249 | .00028 | .00008 | .00008 | .0063 | .00063 | .00012 | .00003 | .00009 | .00043 | .079 |
| %RSD | .16145 | .14139 | 194.00 | 3.8888 | 9.8532 | 127.55 | .61910 | 18.747 | 15.622 | 1.1620 | 159.52 | 36.358 | .15699 |
| #1 | .00783 | 50.168 | -.00304 | -.00728 | .00076 | -.00012 | 1.0073 | -.00378 | -.00069 | .00220 | -.00012 | .00088 | 50.540 |
| #2 | .00781 | 50.068 | .00048 | -.00689 | .00088 | -.00001 | 1.0161 | -.00289 | -.00086 | .00223 | .00001 | .00149 | 50.428 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02356** | **.00656** | **-.01238** | **-.00058** | **-.00192** | **258.82** | **.00093** | **.00048** | **-.00087** | **5.2149** | **-.00213** | **.00053** | **.03181** |
| Stddev | .01137 | .00108 | .00115 | .00002 | .00018 | .95 | .00009 | .00015 | .00122 | .0338 | .00208 | .00194 | .02762 |
| %RSD | 48.262 | 16.430 | 9.2636 | 3.9211 | 9.5015 | .36530 | 9.5334 | 30.927 | 139.89 | .64801 | 97.940 | 363.79 | 86.852 |
| #1 | -.03160 | .00732 | -.01320 | -.00059 | -.00205 | 259.49 | .00099 | .00038 | -.00001 | 5.1910 | -.00065 | .00191 | .01227 |
| #2 | -.01552 | .00580 | -.01157 | -.00056 | -.00179 | 258.16 | .00087 | .00059 | -.00173 | 5.2388 | -.00360 | -.00084 | .05134 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00024** | **5.1716** | **.00263** | **-.00231** | **10.079** | **-.00022** | **.00497** | **-.04045** |
| Stddev | .00039 | .00012 | .0034 | .00004 | .00008 | .011 | .00035 | .00008 | .00089 |
| %RSD | 48.538 | 49.121 | .06485 | 1.4548 | 3.3401 | .11374 | 163.34 | 1.6289 | 2.2057 |
| #1 | .00053 | .00016 | 5.1692 | .00265 | -.00236 | 10.087 | .00003 | .00492 | -.04108 |
| #2 | .00109 | .00032 | 5.1740 | .00260 | -.00225 | 10.071 | -.00046 | .00503 | -.03982 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6055.9** | **78858.** | **5579.0** |
| Stddev | 34.2 | 147. | 14.4 |
| %RSD | .56509 | .18589 | .25819 |
| #1 | 6031.8 | 78962. | 5568.8 |
| #2 | 6080.1 | 78755. | 5589.2 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 8:51:07 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53104** | **.49397** | **1.0319** | **.49852** | **.51186** | **.48622** | **.00196** | **5.1263** | **.51554** | **.52015** | **.50247** | **.50600** |
| Stddev | .00015 | .00046 | .0016 | .00179 | .00220 | .00243 | .00031 | .0166 | .00087 | .00034 | .00055 | .00149 |
| %RSD | .02798 | .09388 | .15196 | .35931 | .43057 | .49994 | 15.979 | .32339 | .16812 | .06454 | .11011 | .29447 |
| #1 | .53115 | .49430 | 1.0330 | .49726 | .51030 | .48451 | .00174 | 5.1145 | .51493 | .52039 | .50286 | .50495 |
| #2 | .53094 | .49364 | 1.0308 | .49979 | .51342 | .48794 | .00218 | 5.1380 | .51616 | .51992 | .50208 | .50706 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4679** | **51.531** | **1.0320** | **21.566** | **.53104** | **.49438** | **5.1736** | **.51291** | **.99816** | **1.0319** | **.00406** | **1.0290** |
| Stddev | .0132 | .120 | .0041 | .028 | .00049 | .00091 | .0088 | .00065 | .00192 | .0009 | .00255 | .0010 |
| %RSD | .53651 | .23337 | .39828 | .12902 | .09259 | .18409 | .17063 | .12649 | .19195 | .08599 | 62.872 | .09450 |
| #1 | 2.4585 | 51.446 | 1.0291 | 21.586 | .53139 | .49502 | 5.1674 | .51337 | .99680 | 1.0325 | .00587 | 1.0283 |
| #2 | 2.4773 | 51.616 | 1.0349 | 21.546 | .53069 | .49373 | 5.1798 | .51246 | .99951 | 1.0313 | .00226 | 1.0297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0185** | **5.0005** | **1.0023** | **.49415** | **.00091** | **.51664** | **.99353** | **.03476** | **.51389** | F **.55317** | **.50610** |
| Stddev | .0012 | .0504 | .0014 | .00123 | .00037 | .00006 | .00230 | .01364 | .00061 | .00216 | .00016 |
| %RSD | .12179 | 1.0073 | .14275 | .24903 | 40.781 | .01172 | .23156 | 39.235 | .11933 | .39020 | .03228 |
| #1 | 1.0176 | 4.9649 | 1.0033 | .49328 | .00117 | .51668 | .99190 | .04440 | .51345 | .55469 | .50598 |
| #2 | 1.0194 | 5.0362 | 1.0013 | .49502 | .00065 | .51660 | .99516 | .02512 | .51432 | .55164 | .50622 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6166.1** | **78919.** | **5507.5** |
| Stddev | 29.9 | 502. | 42.4 |
| %RSD | .48508 | .63625 | .76974 |
| #1 | 6144.9 | 78564. | 5537.5 |
| #2 | 6187.2 | 79274. | 5477.6 |

Sample Name: CCB Acquired: 5/15/2013 8:53:20 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **.00050** | **-.00179** | F **-.00733** | W **.00087** | **.00005** | **-.00184** | **-.00079** | **.00002** | **.00010** | **.00005** |
| Stddev | .00068 | .00013 | .00141 | .00011 | .00027 | .00006 | .00129 | .00216 | .00011 | .00010 | .00010 |
| %RSD | 258.81 | 25.406 | 78.773 | 1.5335 | 31.569 | 116.32 | 69.950 | 274.99 | 605.61 | 105.83 | 215.81 |
| #1 | .00022 | .00059 | -.00278 | -.00725 | .00067 | .00001 | -.00276 | .00074 | .00009 | .00017 | .00012 |
| #2 | -.00074 | .00041 | -.00079 | -.00741 | .00106 | .00009 | -.00093 | -.00232 | -.00006 | .00002 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00068** | **-.05825** | W **.00353** | **-.00006** | **.00000** | **-.00017** | F **.18195** | **-.00019** | **-.00733** | **.00119** |
| Stddev | .00038 | .00060 | .01061 | .00080 | .00159 | .00000 | .00007 | .00718 | .00021 | .00049 | .00212 |
| %RSD | 144.85 | 88.749 | 18.215 | 22.774 | 2884.1 | 271.55 | 42.583 | 3.9476 | 110.99 | 6.6643 | 177.60 |
| #1 | .00053 | .00111 | -.06575 | .00410 | .00107 | -.00000 | -.00022 | .17687 | -.00033 | -.00768 | .00269 |
| #2 | -.00001 | .00025 | -.05075 | .00296 | -.00118 | .00000 | -.00012 | .18703 | -.00004 | -.00699 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **-.00206** | **-.00158** | **.02062** | **-.00022** | **.00005** | **-.00159** | **.00001** | **-.00079** | **.03124** | **.00001** |
| Stddev | .00110 | .00235 | .00353 | .00160 | .00027 | .00003 | .00074 | .00048 | .00005 | .03094 | .00017 |
| %RSD | 77.217 | 113.95 | 223.18 | 7.7455 | 121.01 | 62.838 | 46.743 | 5796.9 | 6.1435 | 99.047 | 1588.4 |
| #1 | .00064 | -.00372 | .00091 | .01949 | -.00041 | .00003 | -.00212 | .00035 | -.00082 | .00936 | .00013 |
| #2 | .00219 | -.00040 | -.00408 | .02175 | -.00003 | .00007 | -.00107 | -.00033 | -.00075 | .05312 | -.00011 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00242** | **.00113** |
| Stddev | .00014 | .00071 |
| %RSD | 5.7726 | 63.376 |
| #1 | .00232 | .00062 |
| #2 | .00252 | .00163 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6148.8** | **79355.** | **5528.4** |
| Stddev | 6.8 | 461. | 24.6 |
| %RSD | .11021 | .58081 | .44407 |
| #1 | 6144.0 | 79029. | 5545.8 |
| #2 | 6153.6 | 79681. | 5511.0 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 8:55:48 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01109** | **.10409** | **.01737** | **.09679** | **.01150** | **.00099** | **.11099** | **.21250** | **.00546** | **.01134** | **.01065** |
| Stddev | .00020 | .00031 | .00112 | .00020 | .00048 | .00006 | .00254 | .00080 | .00015 | .00009 | .00007 |
| %RSD | 1.8103 | .30227 | 6.4504 | .20396 | 4.1631 | 6.5273 | 2.2846 | .37679 | 2.7902 | .82324 | .70100 |
| #1 | .01095 | .10431 | .01658 | .09693 | .01184 | .00095 | .11279 | .21307 | .00557 | .01140 | .01060 |
| #2 | .01123 | .10386 | .01817 | .09665 | .01116 | .00104 | .10920 | .21194 | .00536 | .01127 | .01071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01641** | **.11121** | **3.2244** | F **.01620** | **.23361** | **.01132** | **.02026** | W **1.2261** | **.04396** | **3.1166** | **.00995** |
| Stddev | .00006 | .00136 | .0052 | .00194 | .00126 | .00002 | .00027 | .0131 | .00013 | .0027 | .00190 |
| %RSD | .38936 | 1.2225 | .16209 | 12.006 | .53918 | .14179 | 1.3108 | 1.0691 | .29276 | .08614 | 19.071 |
| #1 | .01637 | .11217 | 3.2207 | .01757 | .23450 | .01133 | .02044 | 1.2354 | .04405 | 3.1185 | .01130 |
| #2 | .01646 | .11025 | 3.2281 | .01482 | .23271 | .01131 | .02007 | 1.2169 | .04387 | 3.1147 | .00861 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00181** | **.00888** | **.01619** | **.53623** | **.10557** | **.01044** | **.01652** | **.01036** | **.01587** | W **.07565** | **.01082** |
| Stddev | .00107 | .00048 | .00434 | .00264 | .00059 | .00004 | .00176 | .00002 | .00038 | .03568 | .00024 |
| %RSD | 59.208 | 5.3526 | 26.827 | .49319 | .55576 | .35369 | 10.677 | .17302 | 2.3759 | 47.166 | 2.2363 |
| #1 | .00105 | .00854 | .01312 | .53436 | .10516 | .01041 | .01528 | .01035 | .01560 | .10088 | .01099 |
| #2 | .00256 | .00921 | .01926 | .53810 | .10599 | .01047 | .01777 | .01038 | .01614 | .05042 | .01065 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02649** | **.01582** |
| Stddev | .00066 | .00097 |
| %RSD | 2.4960 | 6.1235 |
| #1 | .02696 | .01650 |
| #2 | .02602 | .01513 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6275.5** | **80394.** | **5558.6** |
| Stddev | 15.8 | 221. | 46.6 |
| %RSD | .25105 | .27522 | .83783 |
| #1 | 6264.4 | 80237. | 5525.7 |
| #2 | 6286.7 | 80550. | 5591.5 |

Sample Name: MB 280-173305/1-A Acquired: 5/15/2013 8:58:12 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.00345** | **-.00107** | F **-.00808** | **.00033** | **.00005** | **.00143** | **.01068** | **-.00012** |
| Stddev | .00022 | .00010 | .00105 | .00001 | .00011 | .00006 | .00019 | .00391 | .00021 |
| %RSD | 37.859 | 2.8520 | 98.469 | .17618 | 33.826 | 132.94 | 13.130 | 36.585 | 180.67 |
| #1 | -.00074 | .00352 | -.00182 | -.00809 | .00041 | .00009 | .00130 | .00792 | .00003 |
| #2 | -.00043 | .00338 | -.00033 | -.00807 | .00025 | .00000 | .00156 | .01345 | -.00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | | | | | |
| Low Limit | | | | -.00343 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00023** | **.00051** | **.00572** | **-.09611** | W **.00545** | **.00454** | **.00014** | **.00011** |
| Stddev | .00014 | .00011 | .00033 | .00023 | .00021 | .00017 | .00024 | .00002 | .00005 |
| %RSD | 36.694 | 46.310 | 63.568 | 3.9768 | .21700 | 3.0716 | 5.3389 | 13.566 | 43.223 |
| #1 | .00047 | .00030 | .00074 | .00556 | -.09596 | .00557 | .00471 | .00015 | .00014 |
| #2 | .00027 | .00015 | .00028 | .00588 | -.09626 | .00533 | .00437 | .00013 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00261 | | | |
| Low Limit | | | | | | -.00261 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.16110** | **.00013** | F **.13125** | **-.00024** | **.01337** | **-.00161** | **-.00291** | **.02557** | **-.00014** |
| Stddev | .00791 | .00007 | .00247 | .00092 | .00104 | .00304 | .00023 | .00853 | .00059 |
| %RSD | 4.9095 | 51.440 | 1.8810 | 378.99 | 7.7648 | 188.90 | 7.8852 | 33.365 | 422.31 |
| #1 | .15551 | .00009 | .13300 | .00041 | .01263 | .00054 | -.00307 | .03160 | -.00056 |
| #2 | .16669 | .00018 | .12951 | -.00090 | .01410 | -.00376 | -.00275 | .01953 | .00028 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .09160 | | .02970 | | | | | | |
| Low Limit | -.09160 | | -.02970 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **-.00039** | **.00026** | **-.00122** | **.01211** | **.00043** | **.00282** | **-.00090** |
| Stddev | .00014 | .00005 | .00053 | .00033 | .02045 | .00002 | .00022 | .00131 |
| %RSD | 81.092 | 12.658 | 199.23 | 27.267 | 168.90 | 4.9559 | 7.8603 | 144.58 |
| #1 | .00028 | -.00035 | -.00011 | -.00099 | .02657 | .00041 | .00298 | .00002 |
| #2 | .00008 | -.00042 | .00064 | -.00146 | -.00235 | .00044 | .00266 | -.00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6294.0** | **80750.** | **5578.1** |
| Stddev | 8.3 | 124. | 87.2 |
| %RSD | .13155 | .15311 | 1.5637 |
| #1 | 6288.2 | 80838. | 5516.4 |
| #2 | 6299.9 | 80663. | 5639.7 |

Sample Name: LCS 280-173305/2-A Acquired: 5/15/2013 9:00:40 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05651** | **1.8824** | **1.0385** | **1.0296** | **2.0649** | **.04913** | **2.0703** | **50.466** | **.10583** |
| Stddev | .00056 | .0006 | .0001 | .0006 | .0129 | .00037 | .0010 | .388 | .00009 |
| %RSD | .99934 | .03459 | .00603 | .06143 | .62486 | .74666 | .04957 | .76826 | .08713 |
| #1 | .05691 | 1.8819 | 1.0385 | 1.0300 | 2.0558 | .04887 | 2.0696 | 50.192 | .10577 |
| #2 | .05611 | 1.8829 | 1.0385 | 1.0291 | 2.0741 | .04939 | 2.0711 | 50.740 | .10590 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50844** | **.20031** | **.25457** | **.98238** | **51.936** | **1.0304** | **53.860** | **.52499** | **.99032** |
| Stddev | .00082 | .00011 | .00036 | .00028 | .347 | .0096 | .136 | .00066 | .00087 |
| %RSD | .16195 | .05404 | .14281 | .02801 | .66860 | .92839 | .25197 | .12597 | .08738 |
| #1 | .50902 | .20038 | .25432 | .98257 | 51.691 | 1.0237 | 53.956 | .52545 | .98971 |
| #2 | .50785 | .20023 | .25483 | .98218 | 52.182 | 1.0372 | 53.764 | .52452 | .99093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.169** | **.50080** | **10.523** | **.50845** | **.00343** | **.51910** | **2.0709** | **10.135** | **1.9953** |
| Stddev | .245 | .00043 | .002 | .00134 | .00103 | .00030 | .0069 | .003 | .0040 |
| %RSD | .46975 | .08679 | .02298 | .26413 | 30.050 | .05730 | .33436 | .03175 | .19921 |
| #1 | 52.343 | .50111 | 10.521 | .50750 | .00270 | .51931 | 2.0660 | 10.137 | 1.9925 |
| #2 | 51.996 | .50050 | 10.525 | .50940 | .00416 | .51889 | 2.0758 | 10.132 | 1.9981 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99268** | **1.0305** | **1.0339** | **1.9586** | **2.1098** | **.51900** | **.54636** | **.49738** |
| Stddev | .00593 | .0037 | .0011 | .0047 | .0380 | .00370 | .00093 | .00017 |
| %RSD | .59781 | .36228 | .10449 | .24010 | 1.7992 | .71327 | .17030 | .03377 |
| #1 | .98848 | 1.0331 | 1.0346 | 1.9553 | 2.1366 | .52162 | .54701 | .49750 |
| #2 | .99687 | 1.0278 | 1.0331 | 1.9619 | 2.0829 | .51638 | .54570 | .49726 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6091.6** | **78434.** | **5537.3** |
| Stddev | 14.0 | 134. | 14.8 |
| %RSD | .22993 | .17142 | .26785 |
| #1 | 6081.7 | 78339. | 5547.8 |
| #2 | 6101.5 | 78529. | 5526.8 |

Sample Name: 280-41892-E-1-A Acquired: 5/15/2013 9:02:52 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **1.9764** | **.00338** | **.01761** | **.03892** | **.00006** | **-.00207** | **9.6984** | **.00046** |
| Stddev | .00036 | .0005 | .00005 | .00097 | .00038 | .00004 | .00285 | .0036 | .00009 |
| %RSD | 101.70 | .02460 | 1.5034 | 5.5141 | .98582 | 61.923 | 137.95 | .03710 | 19.455 |
| #1 | .00061 | 1.9767 | .00334 | .01830 | .03919 | .00004 | -.00408 | 9.7010 | .00040 |
| #2 | .00010 | 1.9760 | .00341 | .01692 | .03865 | .00009 | -.00005 | 9.6959 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00193** | **.00505** | **.03667** | **2.8367** | **3.6069** | **.00769** | **1.3928** | **.05413** | **.00103** |
| Stddev | .00007 | .00013 | .00050 | .0142 | .0260 | .00131 | .0055 | .00049 | .00012 |
| %RSD | 3.8040 | 2.6178 | 1.3607 | .49918 | .72124 | 17.032 | .39261 | .89613 | 11.458 |
| #1 | .00198 | .00514 | .03631 | 2.8467 | 3.6253 | .00677 | 1.3889 | .05379 | .00112 |
| #2 | .00187 | .00495 | .03702 | 2.8267 | 3.5885 | .00862 | 1.3967 | .05447 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.0003** | **.00511** | **.43973** | **.01529** | **2.7420** | **-.00000** | **-.00183** | **6.1420** | **.00180** |
| Stddev | .0067 | .00016 | .00491 | .00082 | .0205 | .00219 | .00036 | .0153 | .00006 |
| %RSD | .08442 | 3.1043 | 1.1158 | 5.3650 | .74666 | 63597. | 19.442 | .24917 | 3.2369 |
| #1 | 7.9956 | .00523 | .44320 | .01587 | 2.7565 | -.00155 | -.00158 | 6.1528 | .00184 |
| #2 | 8.0051 | .00500 | .43626 | .01471 | 2.7275 | .00154 | -.00208 | 6.1312 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04569** | **.00185** | **.12837** | **-.00103** | **.00975** | **.00977** | **.38810** | **.00196** |
| Stddev | .00031 | .00314 | .00087 | .00024 | .00518 | .00004 | .00002 | .00028 |
| %RSD | .67407 | 169.88 | .67647 | 23.431 | 53.086 | .37917 | .00584 | 14.061 |
| #1 | .04591 | -.00037 | .12775 | -.00086 | .01341 | .00974 | .38812 | .00215 |
| #2 | .04548 | .00407 | .12898 | -.00120 | .00609 | .00979 | .38809 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6303.0** | **81303.** | **5659.7** |
| Stddev | 12.1 | 250. | 11.7 |
| %RSD | .19248 | .30702 | .20747 |
| #1 | 6294.4 | 81126. | 5668.0 |
| #2 | 6311.6 | 81479. | 5651.4 |

Sample Name: sd 280-41892-E-1-A@5 Acquired: 5/15/2013 9:05:15 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.52644** | **.00051** | **-.00174** | **.00978** | **.00004** | **-.00224** | **2.3925** | **.00005** |
| Stddev | .00022 | .00022 | .00053 | .00038 | .00018 | .00004 | .00211 | .0060 | .00016 |
| %RSD | 168.06 | .04272 | 104.74 | 21.767 | 1.7923 | 97.501 | 93.812 | .25138 | 328.46 |
| #1 | -.00002 | .52659 | .00088 | -.00201 | .00966 | .00007 | -.00076 | 2.3883 | -.00007 |
| #2 | .00029 | .52628 | .00013 | -.00147 | .00991 | .00001 | -.00373 | 2.3968 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00129** | **.00912** | **.71189** | **.82947** | **.00569** | **.34546** | **.01342** | **.00020** |
| Stddev | .00015 | .00004 | .00002 | .00252 | .04506 | .00510 | .00248 | .00005 | .00011 |
| %RSD | 21.343 | 3.3346 | .17806 | .35338 | 5.4319 | 89.698 | .71903 | .38924 | 56.713 |
| #1 | .00083 | .00132 | .00911 | .71367 | .86133 | .00930 | .34721 | .01345 | .00012 |
| #2 | .00061 | .00126 | .00913 | .71011 | .79761 | .00208 | .34370 | .01338 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0042** | **.00135** | **.09992** | **.00260** | **.60398** | **-.00028** | **-.00144** | **1.4927** | **-.00013** |
| Stddev | .0044 | .00025 | .00188 | .00079 | .00249 | .00079 | .00143 | .0065 | .00004 |
| %RSD | .22101 | 18.402 | 1.8822 | 30.383 | .41263 | 285.53 | 99.817 | .43223 | 32.152 |
| #1 | 2.0073 | .00118 | .10125 | .00316 | .60574 | -.00083 | -.00042 | 1.4973 | -.00016 |
| #2 | 2.0011 | .00153 | .09859 | .00204 | .60221 | .00028 | -.00245 | 1.4882 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01129** | **.00119** | **.03184** | **-.00034** | **.04304** | **.00218** | **.09665** | **.00142** |
| Stddev | .00015 | .00215 | .00004 | .00106 | .00956 | .00052 | .00181 | .00221 |
| %RSD | 1.3070 | 181.58 | .13444 | 311.85 | 22.200 | 24.044 | 1.8779 | 155.09 |
| #1 | .01139 | .00271 | .03187 | .00041 | .04980 | .00181 | .09793 | .00299 |
| #2 | .01118 | -.00034 | .03181 | -.00109 | .03629 | .00255 | .09537 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6304.8** | **81334.** | **5607.0** |
| Stddev | .7 | 337. | 14.7 |
| %RSD | .01048 | .41412 | .26145 |
| #1 | 6304.3 | 81096. | 5596.6 |
| #2 | 6305.3 | 81572. | 5617.4 |

Sample Name: 280-41892-E-1-B MS  Acquired: 5/15/2013 9:07:41  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05541** | **5.0478** | **.95782** | **.97923** | **1.9115** | **.04399** | **1.9606** | **55.214** | **.09812** |
| Stddev | .00095 | .0112 | .00180 | .00042 | .0127 | .00013 | .0048 | .346 | .00005 |
| %RSD | 1.7091 | .22249 | .18833 | .04300 | .66482 | .28566 | .24648 | .62590 | .04955 |
| #1 | .05474 | 5.0399 | .95654 | .97893 | 1.9025 | .04390 | 1.9572 | 54.970 | .09815 |
| #2 | .05608 | 5.0558 | .95910 | .97952 | 1.9205 | .04408 | 1.9640 | 55.459 | .09809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45875** | **.18470** | **.26578** | **3.8666** | **51.605** | **.94977** | **49.524** | **.52596** | **.89585** |
| Stddev | .00124 | .00003 | .00090 | .0100 | .203 | .00793 | .071 | .00068 | .00101 |
| %RSD | .27064 | .01665 | .33908 | .25945 | .39279 | .83546 | .14265 | .12861 | .11288 |
| #1 | .45787 | .18468 | .26641 | 3.8595 | 51.462 | .94416 | 49.574 | .52644 | .89513 |
| #2 | .45963 | .18472 | .26514 | 3.8737 | 51.748 | .95538 | 49.474 | .52548 | .89656 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.240** | **.45399** | **9.8900** | **.48389** | **2.7781** | **.48173** | **1.9046** | **18.016** | **1.8083** |
| Stddev | .003 | .00048 | .0284 | .00072 | .0015 | .00115 | .0045 | .006 | .0085 |
| %RSD | .00534 | .10552 | .28756 | .14879 | .05404 | .23874 | .23373 | .03381 | .46784 |
| #1 | 56.238 | .45365 | 9.8699 | .48440 | 2.7791 | .48254 | 1.9014 | 18.012 | 1.8023 |
| #2 | 56.243 | .45432 | 9.9101 | .48338 | 2.7770 | .48092 | 1.9077 | 18.021 | 1.8143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94194** | **.92613** | **1.0820** | **1.8409** | **1.8853** | **.47732** | **.86969** | **.44490** |
| Stddev | .00452 | .00181 | .0018 | .0063 | .0053 | .00117 | .00148 | .00066 |
| %RSD | .47965 | .19506 | .16337 | .34228 | .28143 | .24603 | .17045 | .14933 |
| #1 | .93875 | .92485 | 1.0808 | 1.8364 | 1.8816 | .47815 | .87074 | .44537 |
| #2 | .94514 | .92740 | 1.0833 | 1.8453 | 1.8891 | .47649 | .86864 | .44443 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6167.5** | **79269.** | **5608.0** |
| Stddev | 2.6 | 135. | 36.7 |
| %RSD | .04237 | .17001 | .65468 |
| #1 | 6169.4 | 79174. | 5634.0 |
| #2 | 6165.7 | 79364. | 5582.0 |

Sample Name: 280-41892-E-1-C MSD Acquired: 5/15/2013 9:09:54 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05500** | W **3.6050** | **.96975** | **1.0009** | **1.9156** | **.04434** | **1.9896** | **55.164** | **.09917** |
| Stddev | .00012 | .0385 | .00083 | .0032 | .0174 | .00027 | .0018 | .579 | .00019 |
| %RSD | .22052 | 1.0668 | .08568 | .31528 | .90643 | .60377 | .09011 | 1.0493 | .19179 |
| #1 | .05508 | 3.5778 | .96916 | .99869 | 1.9033 | .04415 | 1.9908 | 54.755 | .09930 |
| #2 | .05491 | 3.6322 | .97034 | 1.0032 | 1.9279 | .04452 | 1.9883 | 55.573 | .09903 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 4.0000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46379** | **.18433** | **.26623** | **2.6266** | **51.937** | **.95118** | **49.623** | **.51984** | **.91377** |
| Stddev | .00002 | .00007 | .00026 | .0205 | .532 | .00876 | .060 | .00038 | .00116 |
| %RSD | .00484 | .03682 | .09832 | .77978 | 1.0241 | .92099 | .12119 | .07215 | .12713 |
| #1 | .46380 | .18429 | .26641 | 2.6121 | 51.561 | .94498 | 49.665 | .52011 | .91294 |
| #2 | .46377 | .18438 | .26604 | 2.6410 | 52.313 | .95737 | 49.580 | .51958 | .91459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.845** | **.45742** | **10.045** | **.48909** | **2.7862** | **.48837** | **1.9432** | **14.693** | **1.8472** |
| Stddev | .174 | .00006 | .005 | .00074 | .0052 | .00089 | .0030 | .145 | .0045 |
| %RSD | .30601 | .01412 | .04531 | .15055 | .18626 | .18127 | .15250 | .98737 | .24131 |
| #1 | 56.722 | .45737 | 10.042 | .48857 | 2.7899 | .48899 | 1.9411 | 14.590 | 1.8440 |
| #2 | 56.968 | .45746 | 10.048 | .48961 | 2.7825 | .48774 | 1.9453 | 14.796 | 1.8503 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94138** | **.93626** | **1.0190** | **1.8745** | **1.9087** | **.48059** | **.87755** | **.44993** |
| Stddev | .00690 | .00262 | .0014 | .0007 | .0410 | .00081 | .00106 | .00706 |
| %RSD | .73246 | .27938 | .14170 | .03578 | 2.1468 | .16900 | .12124 | 1.5698 |
| #1 | .93650 | .93441 | 1.0180 | 1.8740 | 1.9376 | .48117 | .87830 | .44494 |
| #2 | .94626 | .93811 | 1.0201 | 1.8749 | 1.8797 | .48002 | .87680 | .45493 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6171.5** | **79396.** | **5629.6** |
| Stddev | 5.4 | 36. | 30.4 |
| %RSD | .08743 | .04591 | .54058 |
| #1 | 6175.3 | 79422. | 5651.2 |
| #2 | 6167.7 | 79370. | 5608.1 |

Sample Name: 280-41898-E-1-A Acquired: 5/15/2013 9:12:06 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **1.9178** | **.00146** | **.03759** | **.09334** | **.00005** | **-.00014** | **11.575** | **.00056** |
| Stddev | .00041 | .0029 | .00081 | .00037 | .00078 | .00004 | .00015 | .075 | .00011 |
| %RSD | 1319.2 | .15283 | 55.170 | .97404 | .83420 | 85.675 | 107.82 | .64821 | 19.134 |
| #1 | -.00032 | 1.9158 | .00089 | .03785 | .09389 | .00002 | -.00003 | 11.628 | .00064 |
| #2 | .00026 | 1.9199 | .00203 | .03733 | .09279 | .00007 | -.00025 | 11.522 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00354** | **.00884** | **.04550** | **3.2857** | **4.0050** | **.00931** | **1.6290** | **.08446** | **.00304** |
| Stddev | .00015 | .00014 | .00041 | .0155 | .0128 | .00003 | .0029 | .00025 | .00022 |
| %RSD | 4.2925 | 1.5646 | .89253 | .47104 | .31876 | .29001 | .18097 | .29616 | 7.3076 |
| #1 | .00343 | .00894 | .04521 | 3.2966 | 4.0141 | .00929 | 1.6311 | .08464 | .00320 |
| #2 | .00365 | .00874 | .04578 | 3.2747 | 3.9960 | .00932 | 1.6269 | .08428 | .00288 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.5776** | **.00954** | **.95936** | **.02897** | **3.4042** | **.00028** | **.00107** | **5.0052** | **.00309** |
| Stddev | .0378 | .00031 | .00135 | .00004 | .0024 | .00220 | .00134 | .0057 | .00024 |
| %RSD | .82530 | 3.2990 | .14105 | .15153 | .06947 | 797.98 | 125.34 | .11352 | 7.7202 |
| #1 | 4.6044 | .00932 | .95840 | .02894 | 3.4025 | -.00128 | .00202 | 5.0092 | .00292 |
| #2 | 4.5509 | .00977 | .96031 | .02900 | 3.4059 | .00183 | .00012 | 5.0012 | .00326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05103** | **.00034** | **.11986** | **-.00059** | **.00615** | **.00673** | **.24351** | **.00043** |
| Stddev | .00007 | .00044 | .00030 | .00023 | .02482 | .00010 | .00154 | .00080 |
| %RSD | .14501 | 130.92 | .25155 | 39.563 | 403.76 | 1.5173 | .63156 | 186.41 |
| #1 | .05108 | .00002 | .12007 | -.00042 | .02370 | .00680 | .24460 | -.00014 |
| #2 | .05098 | .00065 | .11965 | -.00075 | -.01140 | .00666 | .24242 | .00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6386.0** | **82836.** | **5811.2** |
| Stddev | 5.2 | 479. | 18.8 |
| %RSD | .08078 | .57833 | .32271 |
| #1 | 6382.3 | 82497. | 5797.9 |
| #2 | 6389.6 | 83174. | 5824.4 |

Sample Name: 280-41898-E-2-A Acquired: 5/15/2013 9:14:29 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173305 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00040** | **2.0791** | **.00175** | **.06870** | **.09356** | **.00001** | **-.00003** | **23.490** | **.00042** |
| Stddev | .00029 | .0002 | .00150 | .00076 | .00031 | .00010 | .00356 | .069 | .00003 |
| %RSD | 73.188 | .00900 | 85.601 | 1.1047 | .33089 | 1178.0 | 13073. | .29265 | 7.8988 |
| #1 | -.00060 | 2.0789 | .00069 | .06924 | .09378 | -.00006 | .00249 | 23.539 | .00045 |
| #2 | -.00019 | 2.0792 | .00281 | .06817 | .09334 | .00008 | -.00254 | 23.442 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00348** | **.01020** | **.06369** | **3.5036** | **8.8486** | **.01118** | **2.7932** | **.11498** | **.00368** |
| Stddev | .00001 | .00001 | .00007 | .0042 | .0214 | .00076 | .0066 | .00026 | .00006 |
| %RSD | .28806 | .06895 | .11296 | .11968 | .24223 | 6.7630 | .23666 | .22536 | 1.6703 |
| #1 | .00348 | .01019 | .06364 | 3.5007 | 8.8335 | .01172 | 2.7979 | .11517 | .00364 |
| #2 | .00349 | .01020 | .06374 | 3.5066 | 8.8638 | .01065 | 2.7886 | .11480 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.3167** | **.01276** | **1.6015** | **.03906** | **11.605** | **.00043** | **-.00372** | **5.2371** | **.00380** |
| Stddev | .0167 | .00008 | .0046 | .00104 | .011 | .00019 | .00279 | .0326 | .00006 |
| %RSD | .17966 | .59429 | .28636 | 2.6681 | .09824 | 42.919 | 75.106 | .62333 | 1.5595 |
| #1 | 9.3286 | .01282 | 1.6047 | .03832 | 11.613 | .00030 | -.00569 | 5.2140 | .00376 |
| #2 | 9.3049 | .01271 | 1.5982 | .03979 | 11.597 | .00056 | -.00174 | 5.2602 | .00384 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08256** | **-.00058** | **.12774** | **-.00103** | **.03774** | **.00799** | **.35704** | **.00278** |
| Stddev | .00007 | .00113 | .00037 | .00030 | .05367 | .00021 | .00025 | .00042 |
| %RSD | .08391 | 195.44 | .29104 | 28.830 | 142.19 | 2.5940 | .06890 | 14.951 |
| #1 | .08261 | -.00138 | .12800 | -.00125 | .07569 | .00814 | .35721 | .00307 |
| #2 | .08251 | .00022 | .12747 | -.00082 | -.00020 | .00784 | .35686 | .00249 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6360.5** | **82027.** | **5762.6** |
| Stddev | 13.6 | 305. | 3.2 |
| %RSD | .21415 | .37147 | .05475 |
| #1 | 6350.8 | 81811. | 5764.9 |
| #2 | 6370.1 | 82242. | 5760.4 |

Sample Name: 280-41983-A-25-A  Acquired: 5/15/2013 9:16:52  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **25.738** | **.00589** | **.31217** | **.01442** | **.00357** | **.00069** | **452.06** | W **24.530** |
| Stddev | .00050 | .195 | .00509 | .00165 | .00025 | .00002 | .00041 | 1.90 | .018 |
| %RSD | 59.985 | .75634 | 86.341 | .52891 | 1.7063 | .42293 | 59.839 | .42081 | .07270 |
| #1 | .00119 | 25.876 | .00230 | .31100 | .01460 | .00356 | .00040 | 453.40 | 24.542 |
| #2 | .00048 | 25.600 | .00949 | .31333 | .01425 | .00358 | .00098 | 450.71 | 24.517 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14494** | **.00371** | **1.2402** | **6.7553** | **89.391** | **.24688** | **123.23** | W **14.943** | **-.00183** |
| Stddev | .00017 | .00000 | .0028 | .0294 | .467 | .00464 | .17 | .125 | .00022 |
| %RSD | .11531 | .07695 | .22847 | .43570 | .52297 | 1.8807 | .13965 | .83402 | 11.897 |
| #1 | .14505 | .00371 | 1.2422 | 6.7761 | 89.722 | .24360 | 123.36 | 14.855 | -.00168 |
| #2 | .14482 | .00371 | 1.2382 | 6.7344 | 89.061 | .25017 | 123.11 | 15.032 | -.00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1713.5** | **.19846** | **1.6573** | **.00345** | **1096.9** | **.00274** | **.00714** | **18.328** | **-.00136** |
| Stddev | 12.4 | .00065 | .0257 | .00009 | .3 | .00050 | .00497 | .010 | .00072 |
| %RSD | .72296 | .32885 | 1.5508 | 2.5816 | .03089 | 18.121 | 69.600 | .05497 | 53.415 |
| #1 | 1722.3 | .19800 | 1.6392 | .00351 | 1097.2 | .00310 | .00363 | 18.336 | -.00084 |
| #2 | 1704.7 | .19892 | 1.6755 | .00339 | 1096.7 | .00239 | .01066 | 18.321 | -.00187 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6582** | **-.00925** | **.00182** | **.17239** | **-.02935** | **-.00319** | F **126.28** | **.00326** |
| Stddev | .0209 | .00280 | .00009 | .00087 | .00353 | .00050 | .74 | .00161 |
| %RSD | .78620 | 30.292 | 5.1555 | .50268 | 12.040 | 15.504 | .58896 | 49.464 |
| #1 | 2.6730 | -.01123 | .00175 | .17177 | -.03185 | -.00354 | 125.75 | .00440 |
| #2 | 2.6434 | -.00727 | .00188 | .17300 | -.02685 | -.00284 | 126.81 | .00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6144.9** | **79967.** | **6043.1** |
| Stddev | 14.5 | 381. | 96.7 |
| %RSD | .23635 | .47691 | 1.6006 |
| #1 | 6134.7 | 80236. | 5974.7 |
| #2 | 6155.2 | 79697. | 6111.5 |

Sample Name: 280-41983-A-26-A  Acquired: 5/15/2013 9:20:10  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173569 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00509** | **4.0753** | **-.00046** | **.31152** | **.00894** | **.00190** | **.00129** | **341.70** | W **4.5467** |
| Stddev | .00046 | .0033 | .00315 | .00134 | .00018 | .00015 | .00099 | 2.19 | .0412 |
| %RSD | 8.9669 | .08106 | 686.57 | .42886 | 1.9838 | 7.7998 | 76.514 | .64162 | .90550 |
| #1 | .00542 | 4.0777 | .00177 | .31058 | .00907 | .00180 | .00199 | 343.25 | 4.5176 |
| #2 | .00477 | 4.0730 | -.00268 | .31247 | .00882 | .00201 | .00059 | 340.15 | 4.5758 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43471** | **.00031** | **.08935** | **20.305** | **17.732** | **.10258** | **144.23** | F **34.880** | **-.00311** |
| Stddev | .00336 | .00015 | .00004 | .095 | .017 | .00209 | .68 | .357 | .00004 |
| %RSD | .77223 | 48.241 | .04562 | .46951 | .09694 | 2.0354 | .47014 | 1.0243 | 1.1698 |
| #1 | .43234 | .00020 | .08932 | 20.372 | 17.744 | .10406 | 143.75 | 35.132 | -.00309 |
| #2 | .43708 | .00041 | .08938 | 20.237 | 17.720 | .10110 | 144.71 | 34.627 | -.00314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1263.5** | **.16633** | **2.4187** | **.00516** | **1150.8** | **.00036** | **.00256** | **11.873** | **-.00097** |
| Stddev | 6.1 | .00194 | .0260 | .00107 | 9.6 | .00074 | .00119 | .052 | .00012 |
| %RSD | .47981 | 1.1671 | 1.0734 | 20.805 | .83845 | 208.15 | 46.498 | .43619 | 12.406 |
| #1 | 1267.8 | .16495 | 2.4004 | .00592 | 1144.0 | .00088 | .00172 | 11.910 | -.00088 |
| #2 | 1259.2 | .16770 | 2.4371 | .00440 | 1157.6 | -.00017 | .00340 | 11.837 | -.00105 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.8018** | **-.00241** | **.00116** | **.06483** | **-.04967** | W **-.01773** | F **94.095** | **.00043** |
| Stddev | .0206 | .00047 | .00040 | .00003 | .00226 | .00086 | .000 | .00016 |
| %RSD | .73671 | 19.485 | 34.515 | .05284 | 4.5579 | 4.8376 | .00023 | 37.696 |
| #1 | 2.8164 | -.00274 | .00144 | .06480 | -.04807 | -.01712 | 94.095 | .00031 |
| #2 | 2.7872 | -.00207 | .00087 | .06485 | -.05127 | -.01834 | 94.095 | .00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass |
| High Limit | | | | | | 45.000 | 50.000 | |
| Low Limit | | | | | | -.01000 | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5921.5** | **76334.** | **5619.1** |
| Stddev | 85.1 | 931. | 19.0 |
| %RSD | 1.4380 | 1.2192 | .33743 |
| #1 | 5981.7 | 75676. | 5605.7 |
| #2 | 5861.3 | 76992. | 5632.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 9:23:29 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00730** | **50.679** | **-.00144** | **-.00511** | **.00061** | **.00002** | **1.0114** | **.02863** | **-.00074** | **.00198** | **.00008** | **.00167** | **50.895** |
| Stddev | .00006 | .492 | .00527 | .00005 | .00023 | .00000 | .0069 | .00683 | .00023 | .00020 | .00016 | .00024 | .102 |
| %RSD | .82071 | .97145 | 366.52 | .92758 | 37.349 | 8.5520 | .68158 | 23.861 | 31.785 | 10.286 | 195.30 | 14.511 | .20105 |
| #1 | .00734 | 51.028 | -.00516 | -.00507 | .00045 | .00002 | 1.0162 | .03347 | -.00057 | .00213 | .00019 | .00184 | 50.968 |
| #2 | .00725 | 50.331 | .00229 | -.00514 | .00077 | .00002 | 1.0065 | .02380 | -.00090 | .00184 | -.00003 | .00149 | 50.823 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16689** | **.00731** | **-.00477** | **.00108** | **-.00177** | **261.98** | **.00103** | **.05981** | **.00208** | **5.3948** | **-.00350** | **.00252** | **.02942** |
| Stddev | .02569 | .00044 | .00290 | .00032 | .00011 | 2.78 | .00010 | .00969 | .00206 | .0348 | .00196 | .00416 | .01322 |
| %RSD | 15.396 | 5.9750 | 60.887 | 29.611 | 6.2581 | 1.0598 | 9.5868 | 16.200 | 98.882 | .64536 | 56.089 | 164.92 | 44.943 |
| #1 | .14872 | .00700 | -.00682 | .00131 | -.00185 | 263.94 | .00110 | .06666 | .00354 | 5.4194 | -.00211 | -.00042 | .03876 |
| #2 | .18505 | .00761 | -.00271 | .00085 | -.00170 | 260.02 | .00096 | .05296 | .00063 | 5.3702 | -.00489 | .00546 | .02007 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **.00058** | **5.2150** | **.00243** | **-.00200** | **10.238** | **-.00041** | **.00931** | **-.03863** |
| Stddev | .00064 | .00001 | .0294 | .00009 | .00034 | .004 | .00006 | .00064 | .00382 |
| %RSD | 64.094 | 1.1208 | .56381 | 3.8938 | 16.960 | .04243 | 14.078 | 6.8597 | 9.8902 |
| #1 | .00055 | .00058 | 5.1942 | .00250 | -.00176 | 10.235 | -.00037 | .00976 | -.03593 |
| #2 | .00145 | .00059 | 5.2358 | .00236 | -.00224 | 10.241 | -.00045 | .00886 | -.04133 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5899.3** | **74512.** | **5209.9** |
| Stddev | 17.8 | 348. | 82.8 |
| %RSD | .30191 | .46720 | 1.5899 |
| #1 | 5886.7 | 74758. | 5151.3 |
| #2 | 5911.9 | 74265. | 5268.4 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 9:25:52 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53157** | **.50462** | **1.0272** | **.49599** | **.51186** | **.48535** | **-.00017** | **5.1285** | **.50963** | **.51649** | **.50197** | **.50812** |
| Stddev | .00085 | .00084 | .0083 | .00168 | .00165 | .00157 | .00261 | .0269 | .00214 | .00217 | .00266 | .00081 |
| %RSD | .16012 | .16657 | .80800 | .33967 | .32213 | .32309 | 1490.9 | .52510 | .42037 | .41932 | .52976 | .15976 |
| #1 | .53218 | .50402 | 1.0213 | .49480 | .51303 | .48646 | .00167 | 5.1476 | .50811 | .51496 | .50009 | .50870 |
| #2 | .53097 | .50521 | 1.0330 | .49718 | .51069 | .48424 | -.00202 | 5.1095 | .51114 | .51802 | .50385 | .50755 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4691** | **51.681** | **1.0373** | **21.810** | **.53639** | **.49518** | F **5.7085** | **.51332** | **1.0357** | **1.0260** | **.12004** | **1.0123** |
| Stddev | .0115 | .277 | .0039 | .095 | .00165 | .00010 | .0779 | .00040 | .0034 | .0008 | .00921 | .0041 |
| %RSD | .46674 | .53671 | .37187 | .43528 | .30713 | .01979 | 1.3653 | .07786 | .32447 | .07376 | 7.6738 | .40103 |
| #1 | 2.4773 | 51.877 | 1.0400 | 21.877 | .53756 | .49525 | 5.7636 | .51360 | 1.0381 | 1.0254 | .12655 | 1.0094 |
| #2 | 2.4610 | 51.485 | 1.0345 | 21.743 | .53523 | .49511 | 5.6534 | .51304 | 1.0333 | 1.0265 | .11353 | 1.0152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0077** | **4.9968** | **1.0020** | **.49535** | **.00242** | **.52169** | **.98218** | **.06337** | **.52097** | F **.56182** | **.49872** |
| Stddev | .0004 | .0167 | .0017 | .00311 | .00118 | .00008 | .00231 | .00807 | .00192 | .00275 | .00479 |
| %RSD | .04142 | .33475 | .16765 | .62820 | 48.626 | .01547 | .23524 | 12.733 | .36924 | .48881 | .96019 |
| #1 | 1.0074 | 5.0087 | 1.0008 | .49755 | .00326 | .52174 | .98054 | .06907 | .52233 | .56376 | .49534 |
| #2 | 1.0080 | 4.9850 | 1.0032 | .49315 | .00159 | .52163 | .98381 | .05766 | .51961 | .55988 | .50211 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6006.8** | **75808.** | **5298.7** |
| Stddev | 9.3 | 375. | 30.5 |
| %RSD | .15448 | .49403 | .57556 |
| #1 | 6013.4 | 75543. | 5277.1 |
| #2 | 6000.3 | 76073. | 5320.2 |

Sample Name: CCB Acquired: 5/15/2013 9:28:06 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00118** | **-.00019** | **-.00238** | F **-.00614** | W **.00088** | **.00005** | **-.00046** | **.00193** | **.00001** | **.00016** | **-.00007** |
| Stddev | .00052 | .00035 | .00115 | .00011 | .00052 | .00000 | .00022 | .00588 | .00003 | .00036 | .00024 |
| %RSD | 44.093 | 186.10 | 48.519 | 1.8009 | 59.254 | 1.1941 | 47.246 | 304.56 | 308.68 | 233.35 | 327.40 |
| #1 | -.00155 | -.00044 | -.00156 | -.00621 | .00051 | .00005 | -.00062 | .00609 | -.00001 | .00041 | .00010 |
| #2 | -.00081 | .00006 | -.00320 | -.00606 | .00125 | .00005 | -.00031 | -.00223 | .00003 | -.00010 | -.00025 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.00174** | **.10510** | F **.00711** | **-.00027** | **.00003** | **.00005** | F **.53302** | **-.00035** | F **.01250** | **.00012** |
| Stddev | .00014 | .00022 | .02555 | .00097 | .00152 | .00002 | .00005 | .00515 | .00019 | .00030 | .00208 |
| %RSD | 113.35 | 12.939 | 24.309 | 13.637 | 570.79 | 70.149 | 108.68 | .96604 | 54.281 | 2.4119 | 1668.7 |
| #1 | -.00023 | .00158 | .12316 | .00642 | -.00135 | .00002 | .00001 | .53666 | -.00048 | .01271 | -.00135 |
| #2 | -.00003 | .00189 | .08703 | .00779 | .00081 | .00005 | .00008 | .52938 | -.00021 | .01229 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | .01000 | |
| Low Limit | | | | -.00522 | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07904** | **-.00198** | **-.00224** | **.01354** | **.00022** | **.00009** | **-.00048** | **-.00001** | **-.00130** | **.02127** | **-.00029** |
| Stddev | .00155 | .00035 | .00060 | .00014 | .00058 | .00005 | .00106 | .00047 | .00188 | .01850 | .00067 |
| %RSD | 1.9563 | 17.536 | 27.016 | 1.0159 | 261.60 | 59.143 | 220.38 | 4131.2 | 144.83 | 86.956 | 231.22 |
| #1 | .08013 | -.00222 | -.00266 | .01345 | .00063 | .00013 | -.00124 | .00032 | -.00263 | .03435 | -.00077 |
| #2 | .07795 | -.00173 | -.00181 | .01364 | -.00019 | .00005 | .00027 | -.00035 | .00003 | .00819 | .00018 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00357** | **.00138** |
| Stddev | .00023 | .00027 |
| %RSD | 6.5195 | 19.482 |
| #1 | .00341 | .00156 |
| #2 | .00374 | .00119 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6071.5** | **78042.** | **5346.6** |
| Stddev | 15.9 | 481. | 25.3 |
| %RSD | .26198 | .61639 | .47305 |
| #1 | 6082.8 | 77702. | 5364.5 |
| #2 | 6060.3 | 78382. | 5328.8 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 9:30:34 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01050** | **.10191** | W **.01173** | **.09218** | **.01140** | **.00100** | **.10531** | **.21744** | **.00513** | **.01097** | **.01040** |
| Stddev | .00023 | .00018 | .00123 | .00021 | .00005 | .00004 | .00338 | .00248 | .00002 | .00013 | .00003 |
| %RSD | 2.2083 | .17797 | 10.484 | .22337 | .45174 | 4.2517 | 3.2061 | 1.1383 | .45550 | 1.2220 | .24090 |
| #1 | .01067 | .10204 | .01260 | .09203 | .01137 | .00103 | .10770 | .21569 | .00515 | .01088 | .01042 |
| #2 | .01034 | .10178 | .01086 | .09233 | .01144 | .00097 | .10292 | .21919 | .00512 | .01107 | .01039 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | -20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01566** | **.11056** | **3.2860** | F **.01903** | **.22865** | **.01107** | **.01964** | F **1.4918** | **.04269** | **3.0361** | **.01030** |
| Stddev | .00056 | .00001 | .0554 | .00036 | .00339 | .00009 | .00013 | .0032 | .00006 | .0056 | .00109 |
| %RSD | 3.5486 | .00460 | 1.6849 | 1.8768 | 1.4832 | .79534 | .64869 | .21346 | .13591 | .18422 | 10.594 |
| #1 | .01526 | .11056 | 3.3251 | .01877 | .23105 | .01113 | .01973 | 1.4895 | .04265 | 3.0322 | .01107 |
| #2 | .01605 | .11055 | 3.2468 | .01928 | .22625 | .01100 | .01955 | 1.4940 | .04273 | 3.0401 | .00953 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05857** | **.00815** | **.01690** | **.53006** | **.10154** | **.01017** | **.01642** | **.01024** | **.01527** | F **.08117** | **.01049** |
| Stddev | .00130 | .00129 | .00107 | .00731 | .00084 | .00008 | .00077 | .00013 | .00121 | .01507 | .00013 |
| %RSD | 2.2197 | 15.779 | 6.3108 | 1.3787 | .82837 | .75119 | 4.6840 | 1.2664 | 7.9574 | 18.563 | 1.2540 |
| #1 | .05949 | .00724 | .01614 | .53523 | .10094 | .01011 | .01588 | .01014 | .01441 | .09183 | .01040 |
| #2 | .05765 | .00906 | .01765 | .52490 | .10213 | .01022 | .01697 | .01033 | .01613 | .07052 | .01058 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02738** | **.01382** |
| Stddev | .00015 | .00053 |
| %RSD | .53596 | 3.7998 |
| #1 | .02748 | .01345 |
| #2 | .02728 | .01419 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6201.4** | **79148.** | **5445.9** |
| Stddev | 18.8 | 530. | 9.8 |
| %RSD | .30373 | .66976 | .18064 |
| #1 | 6188.1 | 78773. | 5452.8 |
| #2 | 6214.8 | 79523. | 5438.9 |

Sample Name: MB 280-173311/1-A Acquired: 5/15/2013 9:32:59 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00081** | **.00308** | **-.00185** | W **-.00736** | **.00044** | **.00001** | **-.00098** | **.00525** | **-.00001** |
| Stddev | .00002 | .00021 | .00054 | .00018 | .00018 | .00002 | .00007 | .00172 | .00016 |
| %RSD | 2.9841 | 6.9125 | 29.151 | 2.4300 | 41.304 | 117.21 | 6.6627 | 32.796 | 1133.5 |
| #1 | -.00079 | .00323 | -.00147 | -.00748 | .00057 | .00003 | -.00094 | .00647 | -.00013 |
| #2 | -.00083 | .00293 | -.00223 | -.00723 | .00031 | .00000 | -.00103 | .00403 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00003** | **.00055** | **.01478** | **-.00330** | W **.00569** | **.00625** | **.00022** | **.00022** |
| Stddev | .00017 | .00011 | .00099 | .00167 | .01054 | .00031 | .00203 | .00007 | .00030 |
| %RSD | 31.014 | 378.99 | 178.39 | 11.282 | 319.89 | 5.3867 | 32.457 | 30.998 | 134.39 |
| #1 | .00043 | -.00005 | .00125 | .01596 | .00416 | .00547 | .00768 | .00017 | .00043 |
| #2 | .00067 | .00011 | -.00015 | .01360 | -.01075 | .00591 | .00481 | .00027 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00500 | | | |
| Low Limit | | | | | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40659** | **.00041** | F **.14367** | **-.00011** | **.05236** | **-.00066** | **-.00001** | **.03296** | **-.00066** |
| Stddev | .00609 | .00000 | .00043 | .00168 | .00338 | .00091 | .00022 | .03026 | .00015 |
| %RSD | 1.4969 | .20386 | .30021 | 1595.0 | 6.4497 | 137.08 | 2764.5 | 91.812 | 23.590 |
| #1 | .41089 | .00041 | .14336 | -.00129 | .05474 | -.00002 | .00015 | .01156 | -.00076 |
| #2 | .40228 | .00041 | .14397 | .00108 | .04997 | -.00130 | -.00017 | .05436 | -.00055 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **-.00100** | **-.00006** | **-.00057** | W **.05361** | **-.00011** | **.00477** | **.00149** |
| Stddev | .00003 | .00241 | .00001 | .00067 | .03923 | .00035 | .00039 | .00111 |
| %RSD | 25.584 | 240.09 | 24.185 | 118.76 | 73.174 | 320.77 | 8.1565 | 74.456 |
| #1 | -.00013 | .00070 | -.00007 | -.00104 | .02587 | .00014 | .00505 | .00227 |
| #2 | -.00009 | -.00271 | -.00005 | -.00009 | .08135 | -.00035 | .00450 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .05000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6288.2** | **80780.** | **5573.6** |
| Stddev | 4.4 | 287. | 23.8 |
| %RSD | .06960 | .35578 | .42698 |
| #1 | 6285.1 | 80983. | 5556.8 |
| #2 | 6291.3 | 80576. | 5590.5 |

Sample Name: LCS 280-173311/2-A Acquired: 5/15/2013 9:35:27 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05611** | **1.8775** | **1.0266** | **1.0232** | **2.0744** | **.04905** | **2.0511** | **50.661** | **.10467** |
| Stddev | .00021 | .0005 | .0024 | .0004 | .0029 | .00006 | .0037 | .066 | .00017 |
| %RSD | .36660 | .02672 | .23018 | .03998 | .13718 | .12215 | .18228 | .12966 | .16008 |
| #1 | .05597 | 1.8779 | 1.0250 | 1.0229 | 2.0764 | .04900 | 2.0484 | 50.708 | .10456 |
| #2 | .05626 | 1.8771 | 1.0283 | 1.0235 | 2.0724 | .04909 | 2.0537 | 50.615 | .10479 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50364** | **.19999** | **.24955** | **.97922** | **52.424** | **1.0375** | **53.561** | **.52090** | **.98660** |
| Stddev | .00030 | .00016 | .00045 | .00249 | .108 | .0006 | .061 | .00059 | .00081 |
| %RSD | .05887 | .07852 | .17872 | .25407 | .20666 | .05735 | .11444 | .11308 | .08230 |
| #1 | .50343 | .20010 | .24987 | .97746 | 52.501 | 1.0371 | 53.604 | .52131 | .98602 |
| #2 | .50385 | .19988 | .24924 | .98098 | 52.348 | 1.0380 | 53.517 | .52048 | .98717 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.435** | **.49897** | **10.480** | **.50463** | **.04490** | **.51480** | **2.0521** | **10.163** | **1.9872** |
| Stddev | .394 | .00022 | .000 | .00160 | .00039 | .00022 | .0101 | .015 | .0042 |
| %RSD | .76626 | .04355 | .00200 | .31791 | .86174 | .04319 | .49182 | .15152 | .20896 |
| #1 | 51.156 | .49882 | 10.480 | .50350 | .04517 | .51464 | 2.0450 | 10.152 | 1.9842 |
| #2 | 51.714 | .49912 | 10.480 | .50577 | .04463 | .51495 | 2.0592 | 10.174 | 1.9901 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99719** | **1.0206** | **1.0230** | **1.9442** | **2.0459** | **.51550** | **.54645** | **.49011** |
| Stddev | .00242 | .0002 | .0008 | .0065 | .0132 | .00148 | .00058 | .00019 |
| %RSD | .24229 | .02155 | .07314 | .33285 | .64531 | .28660 | .10611 | .03847 |
| #1 | .99890 | 1.0207 | 1.0235 | 1.9397 | 2.0365 | .51655 | .54604 | .49025 |
| #2 | .99549 | 1.0204 | 1.0225 | 1.9488 | 2.0552 | .51446 | .54686 | .48998 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6127.3** | **78424.** | **5473.3** |
| Stddev | 7.7 | 255. | 28.6 |
| %RSD | .12645 | .32539 | .52322 |
| #1 | 6121.8 | 78244. | 5453.1 |
| #2 | 6132.8 | 78605. | 5493.6 |

Sample Name: 280-41922-B-1-A Acquired: 5/15/2013 9:37:40 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00164** | **.00146** | **-.00509** | **.03564** | **.02853** | **-.00013** | **-.00304** | **436.13** | **-.00001** |
| Stddev | .00010 | .00017 | .00217 | .00031 | .00084 | .00007 | .00047 | 9.19 | .00010 |
| %RSD | 5.9018 | 11.857 | 42.687 | .86873 | 2.9330 | 59.051 | 15.636 | 2.1081 | 734.86 |
| #1 | -.00157 | .00134 | -.00663 | .03586 | .02912 | -.00007 | -.00337 | 442.63 | .00006 |
| #2 | -.00171 | .00158 | -.00356 | .03542 | .02794 | -.00018 | -.00270 | 429.63 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.00063** | **.00182** | **.01152** | **9.0921** | **.03307** | **60.582** | **.00129** | **.00062** |
| Stddev | .00002 | .00018 | .00006 | .00018 | .1989 | .00085 | .070 | .00000 | .00006 |
| %RSD | 3.2793 | 28.647 | 3.3412 | 1.5900 | 2.1875 | 2.5716 | .11474 | .37959 | 9.5422 |
| #1 | .00067 | .00050 | .00187 | .01140 | 9.2327 | .03246 | 60.631 | .00129 | .00066 |
| #2 | .00070 | .00075 | .00178 | .01165 | 8.9514 | .03367 | 60.532 | .00129 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **407.27** | **.00477** | **.11796** | **.00032** | **464.28** | **-.00041** | **.05058** | **5.6670** | **-.00043** |
| Stddev | 8.03 | .00024 | .00254 | .00177 | 3.82 | .00016 | .00175 | .0753 | .00006 |
| %RSD | 1.9710 | 5.1057 | 2.1501 | 555.71 | .82195 | 39.173 | 3.4521 | 1.3288 | 13.763 |
| #1 | 412.95 | .00494 | .11617 | .00157 | 461.58 | -.00029 | .05182 | 5.7203 | -.00047 |
| #2 | 401.59 | .00460 | .11975 | -.00093 | 466.97 | -.00052 | .04935 | 5.6138 | -.00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.8803** | **.00003** | **.00272** | **.00086** | **.00303** | **.00046** | **.00495** | **.00105** |
| Stddev | .2259 | .00156 | .00013 | .00020 | .05373 | .00016 | .00016 | .00023 |
| %RSD | 2.5438 | 5600.2 | 4.8053 | 23.334 | 1770.8 | 35.790 | 3.2946 | 22.123 |
| #1 | 9.0400 | .00113 | .00281 | .00100 | -.03496 | .00034 | .00507 | .00088 |
| #2 | 8.7205 | -.00108 | .00262 | .00072 | .04103 | .00058 | .00484 | .00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5597.5** | **74972.** | **5453.7** |
| Stddev | 111.9 | 168. | 62.7 |
| %RSD | 1.9986 | .22392 | 1.1499 |
| #1 | 5518.4 | 74854. | 5409.4 |
| #2 | 5676.6 | 75091. | 5498.1 |

Sample Name: sd 280-41922-B-1-A@5 Acquired: 5/15/2013 9:40:21 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00077** | **.00147** | **-.00050** | **.00223** | **.00710** | **-.00013** | **.00028** | **104.33** | **-.00005** |
| Stddev | .00030 | .00011 | .00116 | .00026 | .00037 | .00013 | .00095 | .09 | .00000 |
| %RSD | 38.530 | 7.6721 | 230.80 | 11.797 | 5.1619 | 102.74 | 339.51 | .08859 | 4.8549 |
| #1 | -.00056 | .00155 | .00032 | .00204 | .00736 | -.00023 | -.00039 | 104.27 | -.00005 |
| #2 | -.00097 | .00139 | -.00132 | .00242 | .00684 | -.00004 | .00095 | 104.40 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00040** | **.00083** | **.01339** | **2.1201** | **.01408** | **14.498** | **.00045** | **-.00023** |
| Stddev | .00028 | .00016 | .00018 | .00084 | .0374 | .00138 | .038 | .00008 | .00020 |
| %RSD | 61.094 | 39.352 | 21.996 | 6.2493 | 1.7629 | 9.7897 | .26463 | 18.151 | 87.156 |
| #1 | .00066 | .00051 | .00095 | .01399 | 2.1465 | .01310 | 14.525 | .00039 | -.00037 |
| #2 | .00026 | .00029 | .00070 | .01280 | 2.0937 | .01505 | 14.471 | .00051 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **94.437** | **.00088** | **.02600** | **.00111** | **99.198** | **-.00031** | **.00884** | **1.2862** | **-.00051** |
| Stddev | .050 | .00006 | .00188 | .00187 | .021 | .00144 | .00067 | .0043 | .00036 |
| %RSD | .05300 | 7.2986 | 7.2404 | 167.59 | .02156 | 470.00 | 7.6026 | .33522 | 70.459 |
| #1 | 94.401 | .00084 | .02467 | .00243 | 99.183 | .00071 | .00836 | 1.2893 | -.00026 |
| #2 | 94.472 | .00093 | .02733 | -.00021 | 99.213 | -.00132 | .00931 | 1.2832 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1225** | **-.00077** | **.00052** | **-.00160** | **.04075** | **.00058** | **.00426** | **.00012** |
| Stddev | .0036 | .00224 | .00032 | .00012 | .00692 | .00070 | .00013 | .00252 |
| %RSD | .17103 | 289.16 | 61.428 | 7.7665 | 16.981 | 121.48 | 3.1494 | 2021.0 |
| #1 | 2.1251 | -.00236 | .00030 | -.00168 | .04565 | .00107 | .00436 | -.00166 |
| #2 | 2.1199 | .00081 | .00075 | -.00151 | .03586 | .00008 | .00417 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5992.5** | **77304.** | **5444.8** |
| Stddev | 23.4 | 105. | 1.3 |
| %RSD | .39094 | .13618 | .02457 |
| #1 | 5975.9 | 77229. | 5445.7 |
| #2 | 6009.0 | 77378. | 5443.8 |

Sample Name: 280-41922-B-1-B MS  Acquired: 5/15/2013 9:42:46  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05479** | **1.7146** | **1.0423** | **1.0415** | **1.9872** | **.04528** | **2.0540** | W **501.79** | **.10355** |
| Stddev | .00012 | .0008 | .0044 | .0003 | .0088 | .00025 | .0074 | 5.16 | .00036 |
| %RSD | .22601 | .04506 | .41862 | .02361 | .44207 | .55651 | .35849 | 1.0291 | .35239 |
| #1 | .05470 | 1.7140 | 1.0453 | 1.0417 | 1.9934 | .04546 | 2.0488 | 505.44 | .10329 |
| #2 | .05487 | 1.7151 | 1.0392 | 1.0414 | 1.9810 | .04510 | 2.0592 | 498.14 | .10381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47334** | **.18791** | **.24231** | **.91747** | **61.192** | **1.0265** | **111.58** | **.48478** | **.94828** |
| Stddev | .00028 | .00037 | .00029 | .00664 | .225 | .0092 | .05 | .00066 | .00018 |
| %RSD | .05864 | .19662 | .12154 | .72389 | .36795 | .89684 | .04374 | .13580 | .01949 |
| #1 | .47314 | .18765 | .24252 | .92217 | 61.351 | 1.0330 | 111.62 | .48524 | .94841 |
| #2 | .47354 | .18817 | .24210 | .91278 | 61.032 | 1.0200 | 111.55 | .48431 | .94815 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **477.25** | **.46844** | **10.627** | **.47205** | **479.96** | **.51003** | **2.1076** | **15.910** | **1.8741** |
| Stddev | 3.26 | .00075 | .002 | .00128 | .03 | .00304 | .0058 | .016 | .0022 |
| %RSD | .68408 | .15984 | .01930 | .27031 | .00559 | .59545 | .27446 | .10272 | .11967 |
| #1 | 479.56 | .46791 | 10.628 | .47296 | 479.97 | .51217 | 2.1117 | 15.921 | 1.8725 |
| #2 | 474.95 | .46897 | 10.625 | .47115 | 479.94 | .50788 | 2.1035 | 15.898 | 1.8757 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.309** | **.95628** | **.96696** | **1.7811** | **1.9437** | **.49067** | **.49883** | **.46644** |
| Stddev | .061 | .00325 | .00024 | .0004 | .0351 | .00104 | .00145 | .00436 |
| %RSD | .59590 | .33943 | .02468 | .02508 | 1.8051 | .21176 | .29122 | .93431 |
| #1 | 10.266 | .95857 | .96713 | 1.7808 | 1.9189 | .49141 | .49985 | .46952 |
| #2 | 10.353 | .95398 | .96679 | 1.7815 | 1.9685 | .48994 | .49780 | .46336 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5607.9** | **73532.** | **5177.1** |
| Stddev | 46.5 | 383. | 66.9 |
| %RSD | .82998 | .52071 | 1.2922 |
| #1 | 5640.8 | 73803. | 5129.8 |
| #2 | 5575.0 | 73262. | 5224.4 |

Sample Name: 280-41922-B-1-C MSD  Acquired: 5/15/2013 9:45:50  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05481** | **1.6813** | **1.0186** | **1.0172** | **1.9704** | **.04484** | **2.0172** | **489.59** | **.10170** |
| Stddev | .00046 | .0182 | .0075 | .0043 | .0042 | .00028 | .0102 | 3.98 | .00045 |
| %RSD | .83193 | 1.0848 | .73495 | .41810 | .21227 | .61648 | .50563 | .81394 | .44116 |
| #1 | .05513 | 1.6941 | 1.0239 | 1.0202 | 1.9674 | .04464 | 2.0244 | 492.40 | .10202 |
| #2 | .05449 | 1.6684 | 1.0133 | 1.0142 | 1.9733 | .04503 | 2.0100 | 486.77 | .10138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46410** | **.18449** | **.24201** | **.90584** | **60.348** | **1.0175** | **110.68** | **.48236** | **.92617** |
| Stddev | .00388 | .00145 | .00002 | .00539 | .090 | .0034 | .65 | .00116 | .00601 |
| %RSD | .83601 | .78533 | .00915 | .59502 | .14950 | .33371 | .58635 | .24145 | .64863 |
| #1 | .46685 | .18551 | .24202 | .90203 | 60.284 | 1.0151 | 111.14 | .48318 | .93042 |
| #2 | .46136 | .18346 | .24199 | .90966 | 60.412 | 1.0199 | 110.22 | .48153 | .92193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **467.63** | **.46011** | **10.416** | **.46350** | **467.22** | **.49648** | **2.0664** | **15.766** | **1.8317** |
| Stddev | 1.06 | .00386 | .077 | .00814 | 3.28 | .00307 | .0223 | .021 | .0163 |
| %RSD | .22663 | .83832 | .73573 | 1.7560 | .70194 | .61797 | 1.0791 | .13530 | .88941 |
| #1 | 466.88 | .46283 | 10.470 | .46926 | 469.54 | .49865 | 2.0821 | 15.751 | 1.8432 |
| #2 | 468.38 | .45738 | 10.362 | .45775 | 464.90 | .49431 | 2.0506 | 15.781 | 1.8202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.104** | **.95630** | **.95761** | **1.7474** | **1.9685** | **.48934** | **.49838** | **.45869** |
| Stddev | .039 | .00616 | .00243 | .0131 | .0270 | .00184 | .00328 | .00446 |
| %RSD | .38612 | .64376 | .25428 | .75139 | 1.3704 | .37585 | .65821 | .97162 |
| #1 | 10.132 | .96066 | .95933 | 1.7566 | 1.9876 | .49064 | .50070 | .46185 |
| #2 | 10.077 | .95195 | .95589 | 1.7381 | 1.9494 | .48804 | .49606 | .45554 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5672.2** | **72969.** | **5268.0** |
| Stddev | 48.4 | 646. | 13.0 |
| %RSD | .85318 | .88557 | .24609 |
| #1 | 5638.0 | 72512. | 5277.2 |
| #2 | 5706.5 | 73426. | 5258.8 |

Sample Name: 280-41922-B-2-A Acquired: 5/15/2013 9:48:19 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.00075** | **-.00509** | **.03881** | **.02235** | **-.00018** | **-.00288** | **421.43** | **-.00006** |
| Stddev | .00064 | .00010 | .00092 | .00064 | .00005 | .00001 | .00030 | 7.06 | .00003 |
| %RSD | 110.86 | 13.099 | 18.159 | 1.6432 | .23534 | 6.9398 | 10.462 | 1.6741 | 43.714 |
| #1 | -.00103 | .00081 | -.00444 | .03926 | .02231 | -.00019 | -.00309 | 426.42 | -.00007 |
| #2 | -.00012 | .00068 | -.00574 | .03836 | .02239 | -.00017 | -.00267 | 416.45 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00063** | **.00102** | **.00764** | **12.913** | **.10594** | **29.441** | **.00056** | **.00018** |
| Stddev | .00023 | .00003 | .00004 | .00247 | .028 | .00437 | .107 | .00006 | .00009 |
| %RSD | 46.080 | 5.1618 | 4.4073 | 32.352 | .21611 | 4.1232 | .36195 | 11.590 | 46.844 |
| #1 | .00034 | .00065 | .00105 | .00939 | 12.932 | .10903 | 29.516 | .00051 | .00012 |
| #2 | .00067 | .00060 | .00099 | .00589 | 12.893 | .10285 | 29.365 | .00060 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **264.26** | **.00092** | **.14960** | **.00267** | **463.54** | **.00124** | **.09105** | **13.244** | **-.00036** |
| Stddev | 1.85 | .00004 | .00146 | .00185 | 1.59 | .00026 | .00114 | .052 | .00026 |
| %RSD | .70024 | 4.6654 | .97726 | 69.356 | .34371 | 20.572 | 1.2489 | .39108 | 72.637 |
| #1 | 265.57 | .00095 | .15063 | .00397 | 464.67 | .00142 | .09024 | 13.208 | -.00054 |
| #2 | 262.95 | .00089 | .14857 | .00136 | 462.41 | .00106 | .09185 | 13.281 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.8103** | **.00149** | **.00242** | **.00075** | **-.01508** | **-.00033** | **.00417** | **.00051** |
| Stddev | .0679 | .00040 | .00012 | .00173 | .02508 | .00022 | .00026 | .00325 |
| %RSD | .77099 | 26.838 | 5.1483 | 230.15 | 166.29 | 67.457 | 6.3478 | 639.02 |
| #1 | 8.8583 | .00121 | .00251 | -.00047 | .00265 | -.00017 | .00436 | -.00179 |
| #2 | 8.7623 | .00177 | .00234 | .00197 | -.03282 | -.00048 | .00398 | .00281 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5783.3** | **75500.** | **5578.4** |
| Stddev | 73.3 | 725. | 26.1 |
| %RSD | 1.2681 | .96022 | .46794 |
| #1 | 5731.5 | 74987. | 5560.0 |
| #2 | 5835.2 | 76012. | 5596.9 |

Sample Name: 280-41922-B-3-A  Acquired: 5/15/2013 9:51:00  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173311 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00120** | **.01050** | **-.00283** | **.19967** | **.18002** | **-.00025** | **-.00354** | W **820.04** | **.00055** |
| Stddev | .00008 | .00003 | .00118 | .00016 | .00003 | .00007 | .00190 | 13.98 | .00028 |
| %RSD | 6.3510 | .25831 | 41.786 | .08021 | .01706 | 28.459 | 53.667 | 1.7052 | 50.326 |
| #1 | .00115 | .01052 | -.00200 | .19956 | .18000 | -.00020 | -.00489 | 829.92 | .00035 |
| #2 | .00126 | .01048 | -.00367 | .19978 | .18004 | -.00030 | -.00220 | 810.15 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00932** | **.00190** | **.00398** | **48.300** | **13.647** | **.08609** | **128.70** | W **15.218** | **-.00055** |
| Stddev | .00016 | .00020 | .00028 | .239 | .012 | .00076 | .44 | .030 | .00012 |
| %RSD | 1.7476 | 10.422 | 7.0147 | .49576 | .08504 | .88469 | .33801 | .19945 | 21.102 |
| #1 | .00944 | .00176 | .00418 | 48.470 | 13.639 | .08663 | 129.01 | 15.240 | -.00047 |
| #2 | .00921 | .00204 | .00378 | 48.131 | 13.655 | .08555 | 128.40 | 15.197 | -.00063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **786.10** | **.07494** | **.40655** | **.00253** | **81.970** | **.00161** | **.00023** | **9.2250** | **-.00013** |
| Stddev | 7.15 | .00059 | .00531 | .00070 | .112 | .00031 | .00190 | .0233 | .00031 |
| %RSD | .90978 | .78310 | 1.3072 | 27.900 | .13674 | 19.315 | 819.47 | .25230 | 241.86 |
| #1 | 791.16 | .07453 | .40279 | .00302 | 81.891 | .00183 | -.00111 | 9.2415 | -.00035 |
| #2 | 781.04 | .07536 | .41030 | .00203 | 82.049 | .00139 | .00158 | 9.2086 | .00009 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **19.645** | **.00354** | **.00417** | W **-.01141** | **-.04627** | **-.00319** | **.01326** | **-.00074** |
| Stddev | .288 | .00056 | .00044 | .00112 | .02870 | .00014 | .00017 | .00145 |
| %RSD | 1.4637 | 15.822 | 10.453 | 9.7925 | 62.032 | 4.4276 | 1.2443 | 195.30 |
| #1 | 19.849 | .00315 | .00386 | -.01220 | -.06656 | -.00309 | .01338 | -.00176 |
| #2 | 19.442 | .00394 | .00448 | -.01062 | -.02597 | -.00329 | .01315 | .00028 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | 5.0000 | | | | |
| Low Limit | -.01000 | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5715.2** | **75415.** | **5538.3** |
| Stddev | 1.4 | 154. | 77.3 |
| %RSD | .02529 | .20379 | 1.3966 |
| #1 | 5714.2 | 75306. | 5483.7 |
| #2 | 5716.2 | 75524. | 5593.0 |

Sample Name: 700-76378-b-1-d@5 Acquired: 5/15/2013 9:55:07 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173759 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **.02218** | **.00146** | **.15299** | **.00215** | **-.00010** | **.00355** | **11.104** | **-.00001** |
| Stddev | .00021 | .00005 | .00037 | .00149 | .00038 | .00005 | .00377 | .047 | .00002 |
| %RSD | 36.154 | .23148 | 25.478 | .97128 | 17.466 | 54.310 | 106.17 | .42622 | 162.52 |
| #1 | -.00073 | .02221 | .00172 | .15194 | .00242 | -.00006 | .00089 | 11.137 | -.00002 |
| #2 | -.00044 | .02214 | .00120 | .15404 | .00189 | -.00013 | .00622 | 11.070 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **.00038** | W **10.684** | **.01524** | **.51676** | **.00693** | **1.5899** | **.03891** | **.00009** |
| Stddev | .00010 | .00011 | .041 | .00199 | .00628 | .00036 | .0060 | .00005 | .00024 |
| %RSD | 10.488 | 30.042 | .38332 | 13.065 | 1.2155 | 5.2379 | .37864 | .13843 | 282.94 |
| #1 | .00092 | .00046 | 10.713 | .01665 | .51232 | .00667 | 1.5941 | .03895 | -.00009 |
| #2 | .00107 | .00030 | 10.655 | .01384 | .52120 | .00718 | 1.5856 | .03887 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **57.730** | **6.5499** | **.05236** | W **-.00336** | **.91739** | **-.00052** | **-.00164** | **.85879** | **-.00004** |
| Stddev | .342 | .0185 | .00054 | .00078 | .00058 | .00163 | .00437 | .00660 | .00014 |
| %RSD | .59250 | .28263 | 1.0340 | 23.048 | .06363 | 311.67 | 265.49 | .76883 | 350.93 |
| #1 | 57.972 | 6.5369 | .05198 | -.00281 | .91780 | -.00167 | .00144 | .85412 | -.00014 |
| #2 | 57.488 | 6.5630 | .05274 | -.00391 | .91698 | .00063 | -.00473 | .86346 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | | |
| Low Limit | | | | -.00300 | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00875** | **.00016** | **-.00009** | **.00006** | **.03430** | **.00001** | **.01837** | **.00160** |
| Stddev | .00007 | .00266 | .00042 | .00033 | .00657 | .00028 | .00005 | .00206 |
| %RSD | .81289 | 1646.3 | 475.47 | 529.67 | 19.142 | 2314.3 | .25495 | 129.15 |
| #1 | .00880 | -.00172 | -.00039 | -.00017 | .03894 | -.00019 | .01840 | .00305 |
| #2 | .00870 | .00204 | .00021 | .00029 | .02966 | .00021 | .01833 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5993.8** | **78677.** | **5505.2** |
| Stddev | 26.1 | 35. | 6.7 |
| %RSD | .43492 | .04412 | .12154 |
| #1 | 6012.2 | 78653. | 5509.9 |
| #2 | 5975.3 | 78702. | 5500.5 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 9:57:33 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00813** | **52.193** | **-.00232** | **-.00477** | **.00080** | **-.00004** | **1.0645** | **.01135** | **-.00080** | **.00245** | **-.00017** | **.00218** | **52.516** |
| Stddev | .00026 | .447 | .00047 | .00044 | .00020 | .00001 | .0012 | .00257 | .00016 | .00022 | .00023 | .00046 | .415 |
| %RSD | 3.2306 | .85657 | 20.236 | 9.1883 | 24.532 | 21.803 | .11089 | 22.616 | 19.495 | 8.9151 | 139.72 | 20.922 | .79042 |
| #1 | .00795 | 52.509 | -.00198 | -.00446 | .00094 | -.00004 | 1.0637 | .01316 | -.00091 | .00260 | -.00033 | .00250 | 52.810 |
| #2 | .00832 | 51.877 | -.00265 | -.00508 | .00066 | -.00003 | 1.0653 | .00953 | -.00069 | .00229 | -.00000 | .00186 | 52.223 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10795** | **.00703** | **-.00862** | **-.00055** | **-.00184** | **270.93** | **.00111** | **.00234** | **.00161** | **5.5423** | **-.00133** | **-.00054** | **.03166** |
| Stddev | .00388 | .00047 | .00061 | .00013 | .00004 | 2.87 | .00033 | .00516 | .00055 | .0181 | .00004 | .00307 | .00008 |
| %RSD | 3.5940 | 6.7021 | 7.0555 | 22.640 | 2.4065 | 1.0603 | 29.443 | 220.48 | 34.249 | .32751 | 2.9304 | 565.70 | .26808 |
| #1 | .10521 | .00669 | -.00819 | -.00064 | -.00181 | 272.96 | .00134 | .00599 | .00122 | 5.5295 | -.00135 | .00163 | .03160 |
| #2 | .11069 | .00736 | -.00905 | -.00047 | -.00188 | 268.90 | .00088 | -.00131 | .00200 | 5.5551 | -.00130 | -.00271 | .03172 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **.00055** | **5.3584** | **.00230** | **-.00254** | **10.558** | **-.00045** | **.00368** | **-.03728** |
| Stddev | .00012 | .00011 | .0014 | .00034 | .00024 | .037 | .00002 | .00012 | .00038 |
| %RSD | 9.6321 | 20.207 | .02619 | 14.882 | 9.5077 | .34583 | 3.7717 | 3.1662 | 1.0289 |
| #1 | .00129 | .00048 | 5.3574 | .00206 | -.00271 | 10.584 | -.00047 | .00360 | -.03756 |
| #2 | .00113 | .00063 | 5.3594 | .00254 | -.00237 | 10.532 | -.00044 | .00377 | -.03701 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5946.7** | **77280.** | **5409.1** |
| Stddev | .7 | 442. | 48.2 |
| %RSD | .01105 | .57132 | .89169 |
| #1 | 5947.2 | 76968. | 5375.0 |
| #2 | 5946.2 | 77593. | 5443.2 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 10:00:01 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53359** | **.51503** | **1.0461** | **.50998** | **.51976** | **.49214** | **-.00012** | **5.1520** | **.51977** | **.52498** | **.51296** | **.51327** |
| Stddev | .00021 | .00042 | .0022 | .00188 | .00393 | .00547 | .00016 | .0504 | .00093 | .00005 | .00124 | .00009 |
| %RSD | .03898 | .08077 | .21016 | .36880 | .75545 | 1.1105 | 130.62 | .97884 | .17965 | .01036 | .24219 | .01845 |
| #1 | .53344 | .51533 | 1.0477 | .51131 | .52254 | .49600 | -.00001 | 5.1877 | .52043 | .52502 | .51384 | .51334 |
| #2 | .53373 | .51474 | 1.0446 | .50865 | .51699 | .48827 | -.00023 | 5.1164 | .51911 | .52494 | .51208 | .51320 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4975** | **52.211** | **1.0505** | **21.699** | **.53515** | **.50707** | F **5.6645** | **.52339** | **1.0304** | **1.0387** | **.06170** | **1.0343** |
| Stddev | .0043 | .273 | .0118 | .012 | .00014 | .00046 | .0677 | .00172 | .0044 | .0012 | .00379 | .0006 |
| %RSD | .17223 | .52363 | 1.1246 | .05383 | .02699 | .09014 | 1.1944 | .32930 | .42722 | .11933 | 6.1445 | .05744 |
| #1 | 2.5005 | 52.405 | 1.0589 | 21.691 | .53505 | .50675 | 5.7124 | .52217 | 1.0272 | 1.0396 | .06438 | 1.0338 |
| #2 | 2.4944 | 52.018 | 1.0421 | 21.707 | .53526 | .50739 | 5.6167 | .52461 | 1.0335 | 1.0378 | .05902 | 1.0347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0386** | **5.0830** | **1.0220** | **.50397** | **.00087** | **.52148** | **1.0082** | **.04459** | **.52370** | F **.55453** | **.50912** |
| Stddev | .0004 | .0009 | .0006 | .00453 | .00211 | .00016 | .0001 | .02640 | .00100 | .00161 | .00175 |
| %RSD | .03492 | .01710 | .05401 | .89962 | 241.47 | .03121 | .00684 | 59.211 | .19166 | .29100 | .34345 |
| #1 | 1.0389 | 5.0836 | 1.0216 | .50718 | -.00062 | .52136 | 1.0082 | .06326 | .52441 | .55567 | .51036 |
| #2 | 1.0384 | 5.0824 | 1.0224 | .50077 | .00237 | .52159 | 1.0081 | .02592 | .52299 | .55339 | .50789 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6077.8** | **78322.** | **5488.3** |
| Stddev | 14.5 | 184. | 32.7 |
| %RSD | .23852 | .23547 | .59569 |
| #1 | 6067.6 | 78191. | 5465.1 |
| #2 | 6088.1 | 78452. | 5511.4 |

Sample Name: CCB Acquired: 5/15/2013 10:02:15 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **-.00026** | **.00013** | F **-.00648** | **.00049** | **.00003** | **-.00134** | **-.00040** | **-.00009** | **.00017** | **-.00004** |
| Stddev | .00005 | .00014 | .00008 | .00035 | .00005 | .00002 | .00299 | .00225 | .00009 | .00005 | .00002 |
| %RSD | 8.8065 | 52.988 | 61.967 | 5.4105 | 10.693 | 81.541 | 222.70 | 556.68 | 99.297 | 27.649 | 56.806 |
| #1 | -.00063 | -.00036 | .00019 | -.00673 | .00053 | .00005 | .00077 | -.00200 | -.00003 | .00020 | -.00006 |
| #2 | -.00056 | -.00016 | .00008 | -.00623 | .00046 | .00001 | -.00345 | .00119 | -.00016 | .00013 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00079** | **.05966** | F **.00747** | **.00196** | **.00003** | **-.00017** | F **.48231** | **.00027** | **-.00485** | **-.00166** |
| Stddev | .00042 | .00282 | .10351 | .00085 | .00136 | .00008 | .00037 | .00686 | .00030 | .00267 | .00014 |
| %RSD | 219.93 | 359.33 | 173.50 | 11.329 | 69.340 | 245.44 | 214.45 | 1.4228 | 111.77 | 54.938 | 8.1724 |
| #1 | -.00049 | .00278 | .13285 | .00687 | .00100 | .00009 | -.00043 | .48717 | .00006 | -.00297 | -.00156 |
| #2 | .00011 | -.00121 | -.01353 | .00806 | .00292 | -.00002 | .00009 | .47746 | .00048 | -.00674 | -.00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | | |
| Low Limit | | | | -.00522 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05478** | **-.00204** | **-.00072** | **.01877** | **-.00040** | **-.00007** | **.00135** | **-.00041** | **-.00075** | **.03647** | **.00011** |
| Stddev | .00104 | .00010 | .00134 | .02201 | .00099 | .00000 | .00026 | .00006 | .00037 | .01462 | .00053 |
| %RSD | 1.9054 | 5.0737 | 186.34 | 117.30 | 247.46 | 6.4045 | 18.992 | 14.371 | 49.965 | 40.102 | 460.76 |
| #1 | .05552 | -.00211 | -.00166 | .03433 | .00030 | -.00007 | .00153 | -.00045 | -.00101 | .04681 | .00049 |
| #2 | .05404 | -.00197 | .00023 | .00320 | -.00110 | -.00006 | .00117 | -.00037 | -.00048 | .02613 | -.00026 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00301** | **-.00096** |
| Stddev | .00047 | .00186 |
| %RSD | 15.561 | 193.48 |
| #1 | .00334 | .00035 |
| #2 | .00268 | -.00228 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6126.2** | **78552.** | **5434.0** |
| Stddev | 10.6 | 209. | .1 |
| %RSD | .17317 | .26627 | .00155 |
| #1 | 6118.7 | 78404. | 5433.9 |
| #2 | 6133.7 | 78700. | 5434.0 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 10:04:43 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01073** | **.10456** | **.01791** | **.09667** | **.01129** | **.00100** | **.11091** | **.22062** | **.00542** | **.01153** | **.01058** | **.01590** |
| Stddev | .00034 | .00096 | .00162 | .00179 | .00047 | .00006 | .00189 | .00059 | .00013 | .00014 | .00006 | .00003 |
| %RSD | 3.1409 | .92096 | 9.0496 | 1.8540 | 4.1465 | 5.9318 | 1.7031 | .26943 | 2.4116 | 1.2069 | .56744 | .19543 |
| #1 | .01097 | .10388 | .01676 | .09540 | .01096 | .00104 | .10957 | .22020 | .00533 | .01143 | .01062 | .01592 |
| #2 | .01049 | .10524 | .01905 | .09793 | .01162 | .00096 | .11224 | .22104 | .00551 | .01163 | .01054 | .01588 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11111** | **3.3063** | F **.01814** | **.22836** | **.01119** | **.02068** | F **1.5212** | **.04392** | **3.1472** | **.01019** | **.04512** | **.00839** |
| Stddev | .00056 | .0329 | .00059 | .00033 | .00004 | .00048 | .0052 | .00093 | .0440 | .00010 | .00032 | .00214 |
| %RSD | .50035 | .99467 | 3.2655 | .14510 | .36207 | 2.3359 | .33908 | 2.1105 | 1.3979 | 1.0177 | .71964 | 25.491 |
| #1 | .11150 | 3.2830 | .01855 | .22812 | .01122 | .02034 | 1.5176 | .04327 | 3.1161 | .01011 | .04489 | .00990 |
| #2 | .11071 | 3.3295 | .01772 | .22859 | .01116 | .02102 | 1.5249 | .04458 | 3.1783 | .01026 | .04535 | .00688 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .01000 | | | | 1.0000 | | | | | |
| Range | | | 30.000% | | | | 30.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01408** | **.53473** | **.10615** | **.01050** | **.01457** | **.01038** | **.01545** | F **.08722** | **.01058** | F **.02622** | **.01586** |
| Stddev | .00055 | .01057 | .00154 | .00007 | .00153 | .00027 | .00073 | .04011 | .00044 | .00008 | .00102 |
| %RSD | 3.9152 | 1.9764 | 1.4554 | .65544 | 10.469 | 2.5983 | 4.7340 | 45.983 | 4.1598 | .32179 | 6.4593 |
| #1 | .01447 | .52725 | .10506 | .01045 | .01349 | .01057 | .01596 | .05886 | .01089 | .02628 | .01514 |
| #2 | .01369 | .54220 | .10724 | .01054 | .01565 | .01019 | .01493 | .11558 | .01027 | .02616 | .01659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | .06000 | | .02000 | |
| Range | | | | | | | | 30.000% | | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6201.9** | **79998.** | **5535.8** |
| Stddev | 42.4 | 101. | 21.1 |
| %RSD | .68394 | .12670 | .38025 |
| #1 | 6231.9 | 80070. | 5520.9 |
| #2 | 6171.9 | 79927. | 5550.7 |

Sample Name: MB 280-173661/1-A Acquired: 5/15/2013 10:07:08 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.03100** | **-.00084** | F **.01280** | **.00125** | **-.00002** | **-.00172** | **.07928** | **-.00020** |
| Stddev | .00064 | .00037 | .00269 | .00016 | .00023 | .00003 | .00059 | .00045 | .00001 |
| %RSD | 271.01 | 1.1929 | 320.82 | 1.2823 | 17.978 | 125.31 | 34.424 | .57007 | 6.9336 |
| #1 | .00022 | .03126 | .00106 | .01291 | .00110 | -.00000 | -.00130 | .07960 | -.00020 |
| #2 | -.00069 | .03073 | -.00274 | .01268 | .00141 | -.00005 | -.00214 | .07896 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00024** | **.00124** | W **.03600** | **.09648** | W **.00714** | **.02596** | **.00072** | **-.00005** |
| Stddev | .00043 | .00007 | .00028 | .00258 | .01461 | .00108 | .00032 | .00005 | .00011 |
| %RSD | 162.46 | 29.140 | 22.239 | 7.1636 | 15.145 | 15.094 | 1.2422 | 7.6329 | 221.39 |
| #1 | -.00004 | .00019 | .00144 | .03418 | .08615 | .00790 | .02573 | .00076 | -.00013 |
| #2 | .00057 | .00030 | .00105 | .03783 | .10682 | .00638 | .02618 | .00068 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | .00500 | | | |
| Low Limit | | | | -.05000 | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.70963** | **.00019** | F **.11633** | **.00037** | **.07775** | **-.00089** | W **-.00512** | W **.08087** | **.00717** |
| Stddev | .00268 | .00005 | .00042 | .00011 | .00237 | .00022 | .00034 | .00624 | .00045 |
| %RSD | .37770 | 25.540 | .36298 | 28.753 | 3.0451 | 24.159 | 6.5741 | 7.7125 | 6.3044 |
| #1 | .71152 | .00016 | .11603 | .00030 | .07943 | -.00104 | -.00488 | .07646 | .00749 |
| #2 | .70773 | .00023 | .11663 | .00045 | .07608 | -.00074 | -.00536 | .08528 | .00685 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| High Limit | .50000 | | .01000 | | | | .00500 | .05000 | |
| Low Limit | -.50000 | | -.01000 | | | | -.00500 | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00024** | **.00053** | **-.00016** | **.02420** | **-.00022** | **.00420** | **-.00059** |
| Stddev | .00001 | .00102 | .00007 | .00091 | .00325 | .00039 | .00012 | .00165 |
| %RSD | 2.4043 | 426.24 | 13.316 | 556.63 | 13.437 | 182.02 | 2.9173 | 277.68 |
| #1 | .00043 | -.00048 | .00058 | -.00081 | .02190 | .00006 | .00429 | .00057 |
| #2 | .00042 | .00096 | .00048 | .00048 | .02650 | -.00049 | .00411 | -.00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6224.1** | **80768.** | **5579.6** |
| Stddev | 1.5 | 286. | 1.7 |
| %RSD | .02448 | .35431 | .03010 |
| #1 | 6225.2 | 80566. | 5580.8 |
| #2 | 6223.0 | 80970. | 5578.4 |

Sample Name: LCS 280-173661/2-A Acquired: 5/15/2013 10:09:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05543** | **1.9460** | **1.0221** | F **1.1454** | **2.0524** | **.04821** | **2.0417** | **49.780** | **.10389** |
| Stddev | .00010 | .0047 | .0027 | .0018 | .0106 | .00041 | .0032 | .309 | .00038 |
| %RSD | .18501 | .24415 | .26625 | .15361 | .51740 | .84982 | .15506 | .62100 | .37041 |
| #1 | .05536 | 1.9427 | 1.0202 | 1.1442 | 2.0599 | .04850 | 2.0395 | 49.998 | .10362 |
| #2 | .05551 | 1.9494 | 1.0241 | 1.1466 | 2.0449 | .04792 | 2.0440 | 49.561 | .10416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50260** | **.19984** | **.25082** | **1.0032** | **51.728** | **1.0236** | **52.329** | **.51218** | **.97604** |
| Stddev | .00118 | .00013 | .00121 | .0131 | .325 | .0111 | .079 | .00128 | .00122 |
| %RSD | .23565 | .06402 | .48180 | 1.3058 | .62919 | 1.0845 | .15082 | .25002 | .12494 |
| #1 | .50177 | .19975 | .24997 | 1.0125 | 51.958 | 1.0315 | 52.273 | .51127 | .97518 |
| #2 | .50344 | .19993 | .25168 | .99394 | 51.498 | 1.0158 | 52.385 | .51308 | .97691 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.292** | **.49881** | **10.505** | **.49900** | **.07512** | **.50292** | **2.0298** | **1.8319** | **1.9625** |
| Stddev | .062 | .00046 | .015 | .00060 | .00065 | .00190 | .0088 | .0285 | .0117 |
| %RSD | .11836 | .09211 | .14046 | .11967 | .86937 | .37787 | .43342 | 1.5554 | .59591 |
| #1 | 52.336 | .49848 | 10.495 | .49857 | .07466 | .50157 | 2.0236 | 1.8520 | 1.9542 |
| #2 | 52.248 | .49913 | 10.516 | .49942 | .07558 | .50426 | 2.0360 | 1.8117 | 1.9708 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99123** | **1.0105** | **.99949** | **1.9344** | **2.0773** | **.50772** | **.53247** | **.48090** |
| Stddev | .00702 | .0019 | .00196 | .0105 | .0224 | .00158 | .00022 | .00010 |
| %RSD | .70772 | .19115 | .19586 | .54482 | 1.0793 | .31198 | .04105 | .02143 |
| #1 | .99619 | 1.0091 | .99811 | 1.9269 | 2.0614 | .50660 | .53232 | .48097 |
| #2 | .98627 | 1.0119 | 1.0009 | 1.9418 | 2.0931 | .50884 | .53263 | .48082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5994.3** | **78101.** | **5465.9** |
| Stddev | 2.3 | 101. | 29.9 |
| %RSD | .03835 | .12934 | .54790 |
| #1 | 5992.6 | 78030. | 5444.7 |
| #2 | 5995.9 | 78173. | 5487.1 |

Sample Name: 280-41981-A-1-A  Acquired: 5/15/2013 10:11:48  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **151.05** | **.02832** | **.03288** | **1.9058** | **.00666** | **-.00481** | **31.906** | **.00194** |
| Stddev | .00021 | .38 | .00070 | .00089 | .0086 | .00004 | .00174 | .086 | .00011 |
| %RSD | 30.467 | .25106 | 2.4826 | 2.7017 | .45254 | .63708 | 36.268 | .26915 | 5.7560 |
| #1 | -.00085 | 151.32 | .02782 | .03351 | 1.9119 | .00669 | -.00604 | 31.967 | .00186 |
| #2 | -.00055 | 150.78 | .02882 | .03225 | 1.8997 | .00663 | -.00358 | 31.846 | .00202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05491** | **.15996** | **.14060** | **117.19** | **21.027** | **.10952** | **23.858** | **1.1112** | **.00208** |
| Stddev | .00049 | .00023 | .00036 | .11 | .097 | .00230 | .020 | .0015 | .00013 |
| %RSD | .89646 | .14326 | .25506 | .09671 | .45990 | 2.1032 | .08276 | .13306 | 6.2743 |
| #1 | .05526 | .15979 | .14035 | 117.11 | 21.095 | .11115 | 23.844 | 1.1102 | .00217 |
| #2 | .05456 | .16012 | .14086 | 117.27 | 20.958 | .10789 | 23.872 | 1.1123 | .00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1393** | **.15046** | **2.7743** | **.12209** | **2.9063** | **-.00235** | **.00092** | **3.3468** | **.01034** |
| Stddev | .0085 | .00010 | .0032 | .00145 | .0044 | .00132 | .00195 | .0452 | .00041 |
| %RSD | .74879 | .06505 | .11358 | 1.1854 | .15002 | 56.045 | 211.29 | 1.3504 | 3.9367 |
| #1 | 1.1453 | .15039 | 2.7765 | .12107 | 2.9094 | -.00142 | -.00046 | 3.3788 | .01005 |
| #2 | 1.1332 | .15052 | 2.7720 | .12312 | 2.9032 | -.00328 | .00230 | 3.3149 | .01062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26014** | **.07422** | **1.0340** | **-.00252** | W **-.07352** | **.29384** | **.42254** | **.12154** |
| Stddev | .00122 | .00114 | .0007 | .00151 | .00890 | .00038 | .00072 | .00184 |
| %RSD | .46955 | 1.5323 | .06834 | 59.999 | 12.106 | .12788 | .17106 | 1.5178 |
| #1 | .26100 | .07342 | 1.0345 | -.00145 | -.07981 | .29358 | .42305 | .12285 |
| #2 | .25928 | .07503 | 1.0335 | -.00358 | -.06723 | .29411 | .42203 | .12024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6638.9** | **84204.** | **6042.8** |
| Stddev | 8.1 | 134. | 1.9 |
| %RSD | .12183 | .15858 | .03127 |
| #1 | 6644.6 | 84110. | 6041.4 |
| #2 | 6633.2 | 84299. | 6044.1 |

Sample Name: sd 280-41981-A-1-A@5 Acquired: 5/15/2013 10:14:05 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00113** | **33.260** | **.00529** | **.00163** | **.41587** | **.00153** | **-.00117** | **7.0462** | **.00043** |
| Stddev | .00049 | .095 | .00008 | .00036 | .00074 | .00001 | .00179 | .0225 | .00015 |
| %RSD | 43.672 | .28662 | 1.4426 | 22.019 | .17845 | .58874 | 153.36 | .31879 | 34.759 |
| #1 | -.00078 | 33.327 | .00524 | .00188 | .41639 | .00153 | .00010 | 7.0621 | .00054 |
| #2 | -.00148 | 33.193 | .00534 | .00138 | .41534 | .00154 | -.00243 | 7.0303 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01257** | **.03531** | **.03061** | **24.980** | **4.6057** | **.03006** | **5.2846** | **.24488** | **.00024** |
| Stddev | .00004 | .00009 | .00013 | .122 | .0136 | .00026 | .0086 | .00092 | .00016 |
| %RSD | .30337 | .26159 | .43747 | .48851 | .29576 | .87577 | .16229 | .37435 | 66.174 |
| #1 | .01254 | .03538 | .03051 | 25.067 | 4.5961 | .03025 | 5.2785 | .24423 | .00036 |
| #2 | .01259 | .03525 | .03070 | 24.894 | 4.6154 | .02988 | 5.2906 | .24553 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54529** | **.03361** | **.59503** | **.02747** | **.65170** | **-.00082** | **.00004** | **.77236** | **.00153** |
| Stddev | .00332 | .00004 | .00197 | .00086 | .00191 | .00113 | .00082 | .01571 | .00056 |
| %RSD | .60851 | .11507 | .33183 | 3.1283 | .29240 | 137.99 | 2322.3 | 2.0341 | 36.571 |
| #1 | .54294 | .03358 | .59642 | .02807 | .65304 | -.00002 | .00061 | .78347 | .00114 |
| #2 | .54763 | .03364 | .59363 | .02686 | .65035 | -.00161 | -.00054 | .76125 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05769** | **.01775** | **.22567** | **-.00131** | **.01398** | **.06417** | **.09678** | **.02517** |
| Stddev | .00006 | .00010 | .00085 | .00026 | .02975 | .00080 | .00061 | .00063 |
| %RSD | .10845 | .54114 | .37646 | 19.822 | 212.73 | 1.2437 | .63386 | 2.5092 |
| #1 | .05773 | .01782 | .22507 | -.00112 | .03502 | .06361 | .09721 | .02561 |
| #2 | .05764 | .01769 | .22627 | -.00149 | -.00705 | .06474 | .09634 | .02472 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6181.7** | **78919.** | **5598.1** |
| Stddev | 14.6 | 260. | 13.2 |
| %RSD | .23660 | .32989 | .23513 |
| #1 | 6171.3 | 78735. | 5588.8 |
| #2 | 6192.0 | 79103. | 5607.5 |

Sample Name: 280-41981-A-1-B MS Acquired: 5/15/2013 10:16:27 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05227** | **264.46** | **.95639** | **.97285** | **4.1104** | **.05201** | **1.8518** | **82.358** | **.09701** |
| Stddev | .00020 | .02 | .00086 | .00385 | .0084 | .00000 | .0072 | .004 | .00007 |
| %RSD | .38522 | .00776 | .09010 | .39550 | .20375 | .00144 | .38974 | .00459 | .07094 |
| #1 | .05241 | 264.44 | .95700 | .97557 | 4.1163 | .05201 | 1.8569 | 82.355 | .09706 |
| #2 | .05213 | 264.47 | .95578 | .97013 | 4.1045 | .05201 | 1.8467 | 82.360 | .09696 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51042** | **.42904** | **.39757** | **150.01** | **85.792** | **1.1009** | **84.537** | **1.7964** | **.84386** |
| Stddev | .00088 | .00168 | .00133 | .11 | .032 | .0017 | .326 | .0042 | .00259 |
| %RSD | .17152 | .39051 | .33558 | .07140 | .03744 | .15562 | .38534 | .23603 | .30683 |
| #1 | .51104 | .43022 | .39851 | 149.94 | 85.814 | 1.0997 | 84.768 | 1.7994 | .84569 |
| #2 | .50980 | .42785 | .39662 | 150.09 | 85.769 | 1.1021 | 84.307 | 1.7934 | .84202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.261** | **.61858** | **12.389** | **.57336** | **3.4441** | **.16040** | **1.8409** | **4.9374** | **1.7059** |
| Stddev | .148 | .00219 | .024 | .00261 | .0121 | .00005 | .0146 | .0174 | .0056 |
| %RSD | .30722 | .35330 | .19555 | .45535 | .35241 | .02821 | .79479 | .35160 | .32780 |
| #1 | 48.366 | .62013 | 12.406 | .57521 | 3.4527 | .16043 | 1.8513 | 4.9251 | 1.7099 |
| #2 | 48.156 | .61704 | 12.372 | .57152 | 3.4355 | .16037 | 1.8306 | 4.9497 | 1.7020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2357** | **1.0074** | **3.7975** | **1.6856** | **1.7946** | **.96890** | **1.0176** | **.59274** |
| Stddev | .0034 | .0014 | .0041 | .0071 | .0226 | .00261 | .0024 | .00437 |
| %RSD | .27313 | .14408 | .10729 | .42238 | 1.2577 | .26989 | .23326 | .73761 |
| #1 | 1.2381 | 1.0064 | 3.8003 | 1.6906 | 1.8105 | .97075 | 1.0193 | .58965 |
| #2 | 1.2333 | 1.0084 | 3.7946 | 1.6806 | 1.7786 | .96705 | 1.0160 | .59583 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6505.3** | **81865.** | **5974.2** |
| Stddev | 10.0 | 735. | 5.8 |
| %RSD | .15348 | .89815 | .09727 |
| #1 | 6498.2 | 81345. | 5970.1 |
| #2 | 6512.4 | 82385. | 5978.3 |

Sample Name: 280-41981-A-1-C MSD  Acquired: 5/15/2013 10:19:11  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05161** | **239.87** | **.96853** | **.99208** | **3.7852** | **.05013** | **1.8847** | **77.718** | **.09818** |
| Stddev | .00021 | .32 | .01174 | .01291 | .0086 | .00009 | .0204 | .170 | .00124 |
| %RSD | .41482 | .13526 | 1.2118 | 1.3009 | .22763 | .18289 | 1.0827 | .21867 | 1.2603 |
| #1 | .05146 | 240.10 | .96024 | .98295 | 3.7913 | .05019 | 1.8703 | 77.838 | .09730 |
| #2 | .05176 | 239.64 | .97683 | 1.0012 | 3.7792 | .05006 | 1.8992 | 77.598 | .09905 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51358** | **.41793** | **.37701** | **136.33** | **82.013** | **1.0641** | **80.933** | **1.6153** | **.85946** |
| Stddev | .00711 | .00501 | .00231 | .38 | .217 | .0021 | .337 | .0062 | .01209 |
| %RSD | 1.3842 | 1.1997 | .61395 | .28068 | .26457 | .19851 | .41607 | .38634 | 1.4068 |
| #1 | .50855 | .41439 | .37538 | 136.61 | 82.166 | 1.0656 | 80.695 | 1.6109 | .85091 |
| #2 | .51861 | .42148 | .37865 | 136.06 | 81.859 | 1.0626 | 81.171 | 1.6197 | .86801 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.407** | **.61202** | **12.471** | **.57339** | **3.3045** | **.16883** | **1.8767** | **4.8061** | **1.7315** |
| Stddev | .133 | .00750 | .148 | .00624 | .0450 | .00121 | .0214 | .0231 | .0224 |
| %RSD | .28065 | 1.2252 | 1.1877 | 1.0891 | 1.3612 | .71809 | 1.1420 | .48121 | 1.2931 |
| #1 | 47.501 | .60672 | 12.366 | .56898 | 3.2726 | .16797 | 1.8616 | 4.7898 | 1.7157 |
| #2 | 47.312 | .61732 | 12.576 | .57781 | 3.3363 | .16969 | 1.8919 | 4.8225 | 1.7474 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1813** | **.99532** | **3.6160** | **1.7175** | **1.7881** | **.92136** | **.95920** | **.56921** |
| Stddev | .0048 | .00371 | .0166 | .0178 | .0235 | .00348 | .00265 | .00208 |
| %RSD | .40574 | .37305 | .45828 | 1.0385 | 1.3133 | .37756 | .27640 | .36463 |
| #1 | 1.1847 | .99270 | 3.6043 | 1.7049 | 1.7715 | .91890 | .95733 | .57067 |
| #2 | 1.1780 | .99795 | 3.6277 | 1.7301 | 1.8047 | .92382 | .96108 | .56774 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6386.5** | **81929.** | **6030.7** |
| Stddev | 68.3 | 422. | 32.1 |
| %RSD | 1.0700 | .51456 | .53209 |
| #1 | 6434.9 | 82227. | 6008.1 |
| #2 | 6338.2 | 81631. | 6053.4 |

Sample Name: pds 280-41981-A-1-A  Acquired: 5/15/2013 10:21:55  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05194** | **152.64** | **.22161** | **.13088** | **2.0172** | **.05218** | **-.00419** | **51.024** | **.05123** |
| Stddev | .00017 | .16 | .00070 | .00005 | .0032 | .00008 | .00041 | .075 | .00004 |
| %RSD | .32699 | .10210 | .31395 | .04177 | .15806 | .15252 | 9.8439 | .14730 | .08424 |
| #1 | .05182 | 152.75 | .22210 | .13084 | 2.0194 | .05223 | -.00448 | 51.077 | .05120 |
| #2 | .05206 | 152.53 | .22111 | .13092 | 2.0149 | .05212 | -.00390 | 50.970 | .05126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10227** | **.20664** | **.19067** | **118.15** | **40.819** | **.20741** | **44.356** | **1.1576** | **.04953** |
| Stddev | .00043 | .00040 | .00054 | .03 | .075 | .00036 | .056 | .0015 | .00012 |
| %RSD | .42317 | .19221 | .28207 | .02586 | .18404 | .17503 | .12591 | .12938 | .23445 |
| #1 | .10197 | .20636 | .19105 | 118.13 | 40.873 | .20715 | 44.316 | 1.1566 | .04945 |
| #2 | .10258 | .20692 | .19029 | 118.18 | 40.766 | .20767 | 44.395 | 1.1587 | .04962 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.377** | **.19598** | **4.7451** | **.21669** | **2.9382** | **.09461** | **.19616** | **8.3064** | **.10561** |
| Stddev | .534 | .00017 | .0096 | .00029 | .0072 | .00027 | .00709 | .0400 | .00122 |
| %RSD | 2.6204 | .08443 | .20269 | .13265 | .24578 | .28550 | 3.6162 | .48161 | 1.1520 |
| #1 | 20.755 | .19586 | 4.7383 | .21649 | 2.9331 | .09480 | .19115 | 8.3347 | .10647 |
| #2 | 20.000 | .19610 | 4.7519 | .21689 | 2.9433 | .09442 | .20118 | 8.2781 | .10475 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31065** | **.27239** | **1.0916** | **.18166** | **.39713** | **.34385** | **.62859** | **.16877** |
| Stddev | .00094 | .00394 | .0025 | .00025 | .00434 | .00050 | .00124 | .00181 |
| %RSD | .30104 | 1.4446 | .23132 | .13546 | 1.0938 | .14415 | .19651 | 1.0714 |
| #1 | .31131 | .26961 | 1.0898 | .18183 | .40021 | .34349 | .62771 | .16749 |
| #2 | .30999 | .27518 | 1.0934 | .18148 | .39406 | .34420 | .62946 | .17005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6574.9** | **83286.** | **5999.1** |
| Stddev | 6.2 | 278. | 13.1 |
| %RSD | .09418 | .33399 | .21881 |
| #1 | 6579.3 | 83482. | 6008.4 |
| #2 | 6570.5 | 83089. | 5989.8 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 10:24:09 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00797** | **50.410** | **-.00246** | **-.00497** | **.00090** | **-.00013** | **1.0331** | **-.00213** | **-.00085** | **.00232** | **-.00025** | **.00224** | **50.317** |
| Stddev | .00044 | .102 | .00269 | .00000 | .00013 | .00007 | .0014 | .00250 | .00015 | .00015 | .00003 | .00005 | .259 |
| %RSD | 5.4803 | .20280 | 109.37 | .05168 | 14.035 | 53.021 | .14070 | 117.81 | 17.590 | 6.4105 | 10.808 | 2.0905 | .51407 |
| #1 | .00766 | 50.337 | -.00436 | -.00497 | .00099 | -.00008 | 1.0321 | -.00390 | -.00096 | .00221 | -.00027 | .00221 | 50.500 |
| #2 | .00828 | 50.482 | -.00056 | -.00497 | .00081 | -.00018 | 1.0342 | -.00035 | -.00074 | .00242 | -.00023 | .00228 | 50.134 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06138** | **.00790** | **-.00773** | **-.00055** | **-.00198** | **262.56** | **.00117** | **-.00215** | **.00086** | **5.3078** | **-.00080** | **.00073** | **.03622** |
| Stddev | .02026 | .00028 | .00226 | .00005 | .00021 | .88 | .00010 | .00099 | .00078 | .0296 | .00040 | .00169 | .01022 |
| %RSD | 33.003 | 3.5806 | 29.215 | 8.1272 | 10.513 | .33352 | 8.2019 | 45.938 | 90.939 | .55665 | 49.777 | 232.39 | 28.226 |
| #1 | .07571 | .00770 | -.00933 | -.00052 | -.00183 | 261.94 | .00123 | -.00284 | .00031 | 5.2870 | -.00108 | -.00047 | .02899 |
| #2 | .04706 | .00810 | -.00613 | -.00059 | -.00213 | 263.18 | .00110 | -.00145 | .00142 | 5.3287 | -.00052 | .00193 | .04345 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00017** | **5.1446** | **.00244** | **-.00248** | **10.247** | **-.00015** | **.00351** | **-.03450** |
| Stddev | .00112 | .00010 | .0037 | .00020 | .00084 | .038 | .00048 | .00055 | .00332 |
| %RSD | 197.69 | 57.900 | .07104 | 8.3443 | 34.074 | .36849 | 318.50 | 15.769 | 9.6108 |
| #1 | -.00022 | .00023 | 5.1472 | .00259 | -.00188 | 10.220 | .00019 | .00311 | -.03216 |
| #2 | .00136 | .00010 | 5.1420 | .00230 | -.00307 | 10.273 | -.00049 | .00390 | -.03685 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5974.7** | **77174.** | **5376.2** |
| Stddev | 6.7 | 206. | 12.6 |
| %RSD | .11163 | .26693 | .23521 |
| #1 | 5979.4 | 77029. | 5385.2 |
| #2 | 5970.0 | 77320. | 5367.3 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 10:26:30 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53934** | **.52462** | **1.0700** | **.52331** | **.53040** | **.50019** | **.00100** | **5.2466** | **.52827** | **.53262** | **.52333** | **.52102** |
| Stddev | .00053 | .00503 | .0045 | .00153 | .00293 | .00230 | .00279 | .0323 | .00256 | .00210 | .00332 | .00223 |
| %RSD | .09826 | .95903 | .42295 | .29181 | .55230 | .45971 | 279.80 | .61510 | .48379 | .39444 | .63355 | .42764 |
| #1 | .53897 | .52818 | 1.0732 | .52439 | .52832 | .49857 | -.00098 | 5.2238 | .53008 | .53411 | .52568 | .51945 |
| #2 | .53972 | .52106 | 1.0668 | .52223 | .53247 | .50182 | .00297 | 5.2694 | .52646 | .53114 | .52099 | .52260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5332** | **53.392** | **1.0697** | **21.988** | **.54002** | **.51858** | F **5.6257** | **.53165** | **1.0548** | **1.0537** | **.02662** | **1.0499** |
| Stddev | .0051 | .225 | .0063 | .065 | .00222 | .00161 | .0083 | .00295 | .0049 | .0000 | .00579 | .0046 |
| %RSD | .20152 | .42053 | .58790 | .29594 | .41058 | .31117 | .14669 | .55560 | .46149 | .00031 | 21.754 | .44010 |
| #1 | 2.5296 | 53.233 | 1.0653 | 21.942 | .53845 | .51972 | 5.6199 | .53373 | 1.0582 | 1.0537 | .03071 | 1.0531 |
| #2 | 2.5368 | 53.550 | 1.0742 | 22.034 | .54158 | .51744 | 5.6315 | .52956 | 1.0514 | 1.0537 | .02252 | 1.0466 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0663** | **5.1627** | **1.0457** | **.51764** | **.00213** | **.52492** | **1.0260** | **.07633** | **.52843** | F **.56283** | **.50974** |
| Stddev | .0016 | .0004 | .0059 | .00152 | .00180 | .00296 | .0059 | .02955 | .00128 | .00028 | .00340 |
| %RSD | .15313 | .00811 | .56387 | .29433 | 84.570 | .56405 | .57899 | 38.711 | .24180 | .04943 | .66790 |
| #1 | 1.0675 | 5.1624 | 1.0498 | .51657 | .00341 | .52283 | 1.0302 | .05544 | .52753 | .56264 | .50734 |
| #2 | 1.0652 | 5.1630 | 1.0415 | .51872 | .00086 | .52701 | 1.0218 | .09723 | .52934 | .56303 | .51215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6000.5** | **77861.** | **5402.9** |
| Stddev | 29.8 | 186. | 45.4 |
| %RSD | .49617 | .23885 | .83939 |
| #1 | 5979.5 | 77993. | 5435.0 |
| #2 | 6021.6 | 77730. | 5370.9 |

Sample Name: CCB Acquired: 5/15/2013 10:28:43 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.00034** | **-.00040** | F **-.00682** | W **.00073** | **.00001** | **-.00279** | **-.00139** | **.00008** | **.00012** | **-.00012** |
| Stddev | .00031 | .00011 | .00243 | .00026 | .00051 | .00007 | .00240 | .00457 | .00005 | .00020 | .00005 |
| %RSD | 345.27 | 33.498 | 613.03 | 3.8066 | 70.369 | 875.79 | 85.929 | 329.33 | 60.142 | 164.46 | 42.445 |
| #1 | -.00031 | .00026 | .00132 | -.00664 | .00036 | -.00004 | -.00449 | .00185 | .00011 | -.00002 | -.00008 |
| #2 | .00013 | .00042 | -.00211 | -.00701 | .00109 | .00006 | -.00110 | -.00462 | .00005 | .00026 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00382** | **-.00193** | F **.00684** | **-.00138** | **-.00003** | **-.00008** | F **.32585** | **-.00016** | **-.00909** | **.00102** |
| Stddev | .00011 | .00286 | .04505 | .00115 | .00110 | .00008 | .00010 | .01252 | .00004 | .00235 | .00348 |
| %RSD | 212.96 | 74.859 | 2330.8 | 16.768 | 79.516 | 306.23 | 117.00 | 3.8422 | 28.127 | 25.809 | 342.29 |
| #1 | .00002 | .00584 | -.03379 | .00765 | -.00060 | .00003 | -.00015 | .31700 | -.00019 | -.00743 | .00348 |
| #2 | -.00012 | .00180 | .02992 | .00603 | -.00216 | -.00008 | -.00001 | .33471 | -.00013 | -.01075 | -.00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | | |
| Low Limit | | | | -.00522 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02088** | **-.00187** | **-.00311** | **.01181** | **-.00058** | **-.00003** | **-.00015** | **-.00003** | **-.00107** | F **.05415** | **.00066** |
| Stddev | .00210 | .00157 | .00086 | .00568 | .00038 | .00008 | .00126 | .00034 | .00008 | .01236 | .00045 |
| %RSD | 10.071 | 84.002 | 27.780 | 48.076 | 65.363 | 261.99 | 856.46 | 1148.7 | 7.5511 | 22.821 | 67.858 |
| #1 | .01939 | -.00298 | -.00372 | .00779 | -.00031 | -.00008 | .00074 | -.00027 | -.00101 | .04541 | .00098 |
| #2 | .02236 | -.00076 | -.00250 | .01582 | -.00085 | .00002 | -.00103 | .00021 | -.00113 | .06288 | .00034 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | | .05000 | |
| Low Limit | | | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | **-.00089** |
| Stddev | .00004 | .00014 |
| %RSD | 1.4463 | 15.159 |
| #1 | .00262 | -.00080 |
| #2 | .00257 | -.00099 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6027.1** | **77492.** | **5264.1** |
| Stddev | 30.5 | 989. | 15.4 |
| %RSD | .50533 | 1.2763 | .29325 |
| #1 | 6005.5 | 76792. | 5253.2 |
| #2 | 6048.6 | 78191. | 5275.1 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 10:31:11 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01042** | **.10705** | **.01467** | **.09872** | **.01148** | **.00092** | **.11173** | **.22230** | **.00550** | **.01159** | **.01105** | **.01689** |
| Stddev | .00023 | .00025 | .00075 | .00005 | .00007 | .00004 | .00066 | .00353 | .00016 | .00022 | .00002 | .00000 |
| %RSD | 2.1593 | .23577 | 5.0924 | .05153 | .62349 | 4.5909 | .58979 | 1.5897 | 2.8853 | 1.9204 | .20376 | .01211 |
| #1 | .01026 | .10723 | .01520 | .09876 | .01153 | .00095 | .11219 | .21980 | .00562 | .01175 | .01107 | .01689 |
| #2 | .01058 | .10687 | .01414 | .09869 | .01143 | .00089 | .11126 | .22480 | .00539 | .01144 | .01104 | .01689 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11112** | **3.2861** | F **.01697** | **.23346** | **.01135** | **.02082** | F **1.3856** | **.04445** | **3.1989** | **.00895** | **.02108** | **.00868** |
| Stddev | .00242 | .0709 | .00220 | .00191 | .00007 | .00014 | .0232 | .00003 | .0141 | .00003 | .00087 | .00049 |
| %RSD | 2.1760 | 2.1588 | 12.978 | .81988 | .59996 | .64890 | 1.6705 | .05723 | .44182 | .29357 | 4.1289 | 5.6539 |
| #1 | .11283 | 3.3363 | .01853 | .23211 | .01139 | .02072 | 1.4020 | .04447 | 3.2089 | .00897 | .02170 | .00903 |
| #2 | .10941 | 3.2359 | .01542 | .23482 | .01130 | .02091 | 1.3693 | .04444 | 3.1889 | .00893 | .02047 | .00833 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .01000 | | | | 1.0000 | | | | | |
| Range | | | 30.000% | | | | 30.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01608** | **.53496** | **.10776** | **.01064** | **.01484** | **.01058** | **.01520** | F **.08922** | **.00994** | F **.02836** | **.01572** |
| Stddev | .00033 | .01361 | .00035 | .00026 | .00068 | .00005 | .00146 | .04624 | .00048 | .00008 | .00248 |
| %RSD | 2.0486 | 2.5432 | .32029 | 2.4573 | 4.5718 | .47414 | 9.6141 | 51.826 | 4.8261 | .28798 | 15.802 |
| #1 | .01584 | .54458 | .10800 | .01082 | .01532 | .01055 | .01623 | .05653 | .01028 | .02841 | .01396 |
| #2 | .01631 | .52534 | .10751 | .01045 | .01436 | .01062 | .01417 | .12192 | .00960 | .02830 | .01747 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | .06000 | | .02000 | |
| Range | | | | | | | | 30.000% | | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6074.6** | **78736.** | **5415.2** |
| Stddev | 10.1 | 130. | 30.1 |
| %RSD | .16686 | .16463 | .55529 |
| #1 | 6067.5 | 78827. | 5393.9 |
| #2 | 6081.8 | 78644. | 5436.4 |

Sample Name: 280-41981-A-2-A Acquired: 5/15/2013 10:33:36 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | **117.82** | **.02151** | **.03739** | **1.3991** | **.00484** | **-.00271** | **35.528** | **.00267** |
| Stddev | .00029 | .84 | .00219 | .00004 | .0076 | .00006 | .00119 | .235 | .00005 |
| %RSD | 55.745 | .70987 | 10.161 | .10134 | .54161 | 1.3285 | 44.086 | .66092 | 1.6977 |
| #1 | -.00073 | 118.41 | .01996 | .03736 | 1.4045 | .00489 | -.00186 | 35.694 | .00270 |
| #2 | -.00032 | 117.22 | .02305 | .03741 | 1.3937 | .00480 | -.00355 | 35.362 | .00264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03670** | **.12463** | **.16941** | **87.444** | **20.884** | **.09056** | **19.677** | **.76754** | **.00167** |
| Stddev | .00027 | .00045 | .00051 | .103 | .130 | .00332 | .043 | .00087 | .00014 |
| %RSD | .74505 | .35829 | .30345 | .11724 | .62396 | 3.6708 | .21707 | .11391 | 8.5659 |
| #1 | .03650 | .12495 | .16904 | 87.517 | 20.976 | .09291 | 19.646 | .76692 | .00157 |
| #2 | .03689 | .12431 | .16977 | 87.372 | 20.792 | .08821 | 19.707 | .76816 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89833** | **.11005** | **2.4757** | **.09495** | **5.3768** | **-.00286** | **.00157** | **3.1704** | **.00759** |
| Stddev | .00082 | .00016 | .0072 | .00096 | .0196 | .00015 | .00152 | .0330 | .00018 |
| %RSD | .09122 | .14190 | .28930 | 1.0091 | .36530 | 5.3389 | 96.766 | 1.0406 | 2.4202 |
| #1 | .89775 | .11016 | 2.4808 | .09563 | 5.3907 | -.00297 | .00264 | 3.1938 | .00772 |
| #2 | .89891 | .10994 | 2.4706 | .09427 | 5.3629 | -.00275 | .00050 | 3.1471 | .00746 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24972** | **.04928** | **.78419** | **-.00188** | W **-.06038** | **.24004** | **.44770** | **.08514** |
| Stddev | .00189 | .00312 | .00154 | .00024 | .03621 | .00141 | .00141 | .00146 |
| %RSD | .75572 | 6.3290 | .19694 | 12.735 | 59.966 | .58553 | .31563 | 1.7205 |
| #1 | .25106 | .05149 | .78310 | -.00171 | -.08598 | .23904 | .44670 | .08617 |
| #2 | .24839 | .04708 | .78528 | -.00205 | -.03478 | .24103 | .44870 | .08410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6437.9** | **82561.** | **5866.6** |
| Stddev | .0 | 38. | 32.2 |
| %RSD | .00025 | .04599 | .54850 |
| #1 | 6437.9 | 82588. | 5843.8 |
| #2 | 6437.9 | 82534. | 5889.3 |

Sample Name: 280-41981-A-4-A Acquired: 5/15/2013 10:35:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00088** | **148.62** | **.06513** | **.02982** | **1.6847** | **.00634** | **-.00401** | **34.629** | **.00254** |
| Stddev | .00009 | .46 | .00120 | .00030 | .0044 | .00007 | .00173 | .097 | .00004 |
| %RSD | 10.599 | .31081 | 1.8431 | .98984 | .26252 | 1.0571 | 43.035 | .27958 | 1.7627 |
| #1 | -.00094 | 148.95 | .06428 | .03003 | 1.6878 | .00639 | -.00523 | 34.698 | .00251 |
| #2 | -.00081 | 148.30 | .06598 | .02961 | 1.6816 | .00629 | -.00279 | 34.561 | .00258 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05958** | **.15580** | **.11254** | **144.46** | **23.262** | **.09938** | **26.349** | **2.5840** | **.00205** |
| Stddev | .00054 | .00012 | .00028 | .26 | .014 | .00121 | .034 | .0000 | .00000 |
| %RSD | .90398 | .08019 | .25231 | .18039 | .06027 | 1.2160 | .12800 | .00080 | .02843 |
| #1 | .05920 | .15571 | .11274 | 144.64 | 23.272 | .09853 | 26.325 | 2.5840 | .00205 |
| #2 | .05996 | .15589 | .11234 | 144.28 | 23.252 | .10024 | 26.373 | 2.5840 | .00205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90800** | **.14328** | **4.1213** | **.11187** | **2.6199** | **-.00346** | **-.00132** | **2.8388** | **.00867** |
| Stddev | .00724 | .00028 | .0001 | .00073 | .0051 | .00285 | .00088 | .0330 | .00002 |
| %RSD | .79717 | .19623 | .00123 | .65129 | .19631 | 82.320 | 66.634 | 1.1625 | .18238 |
| #1 | .91311 | .14348 | 4.1212 | .11135 | 2.6163 | -.00548 | -.00194 | 2.8622 | .00865 |
| #2 | .90288 | .14308 | 4.1213 | .11238 | 2.6236 | -.00145 | -.00070 | 2.8155 | .00868 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35970** | **.06684** | **.75660** | **-.00433** | **-.04922** | **.34386** | **.65827** | **.09021** |
| Stddev | .00129 | .00071 | .00147 | .00016 | .01251 | .00004 | .00034 | .00104 |
| %RSD | .35989 | 1.0602 | .19443 | 3.6344 | 25.425 | .01210 | .05186 | 1.1542 |
| #1 | .36061 | .06734 | .75764 | -.00422 | -.04037 | .34389 | .65851 | .09095 |
| #2 | .35878 | .06634 | .75556 | -.00444 | -.05807 | .34383 | .65803 | .08948 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6545.1** | **83400.** | **5975.7** |
| Stddev | 20.0 | . | 16.3 |
| %RSD | .30630 | .00047 | .27210 |
| #1 | 6559.3 | 83400. | 5964.2 |
| #2 | 6531.0 | 83401. | 5987.2 |

Sample Name: 280-41981-A-6-A Acquired: 5/15/2013 10:38:12 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **125.63** | **.05309** | **.08537** | **1.2932** | **.00627** | **-.00418** | **367.22** | **.00180** |
| Stddev | .00066 | 1.02 | .00081 | .00116 | .0133 | .00011 | .00109 | .08 | .00017 |
| %RSD | 387.27 | .81425 | 1.5213 | 1.3559 | 1.0317 | 1.7701 | 26.118 | .02064 | 9.4913 |
| #1 | .00029 | 124.91 | .05252 | .08619 | 1.2838 | .00619 | -.00495 | 367.17 | .00167 |
| #2 | -.00063 | 126.36 | .05366 | .08455 | 1.3027 | .00635 | -.00341 | 367.27 | .00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11378** | **.14907** | **.14421** | **170.65** | **32.233** | **.09293** | **30.256** | **5.5632** | **.00326** |
| Stddev | .00042 | .00032 | .00030 | .78 | .377 | .00131 | .020 | .0072 | .00025 |
| %RSD | .36942 | .21301 | .20778 | .45563 | 1.1683 | 1.4078 | .06588 | .12920 | 7.7657 |
| #1 | .11408 | .14929 | .14400 | 170.10 | 31.967 | .09200 | 30.242 | 5.5683 | .00344 |
| #2 | .11348 | .14885 | .14442 | 171.20 | 32.500 | .09385 | 30.270 | 5.5581 | .00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9602** | **.19959** | **6.1850** | **.25697** | **2.3299** | **-.00172** | **.00685** | **3.1810** | **.00671** |
| Stddev | .0016 | .00050 | .0102 | .00334 | .0014 | .00205 | .00023 | .0228 | .00001 |
| %RSD | .08364 | .25086 | .16550 | 1.3013 | .06109 | 118.80 | 3.3800 | .71783 | .10672 |
| #1 | 1.9590 | .19995 | 6.1922 | .25933 | 2.3289 | -.00317 | .00669 | 3.1649 | .00671 |
| #2 | 1.9614 | .19924 | 6.1778 | .25460 | 2.3309 | -.00028 | .00702 | 3.1972 | .00672 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85796** | **.08035** | **.46158** | **-.00705** | W **-.09941** | **.17669** | **.34897** | **.06496** |
| Stddev | .00749 | .00224 | .00107 | .00167 | .01638 | .00056 | .00182 | .00054 |
| %RSD | .87303 | 2.7870 | .23186 | 23.646 | 16.477 | .31443 | .52216 | .83133 |
| #1 | .85267 | .08193 | .46083 | -.00823 | -.11099 | .17708 | .35025 | .06458 |
| #2 | .86326 | .07877 | .46234 | -.00587 | -.08783 | .17629 | .34768 | .06535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6234.1** | **81080.** | **5879.0** |
| Stddev | 5.8 | 40. | 66.2 |
| %RSD | .09287 | .04978 | 1.1268 |
| #1 | 6230.0 | 81051. | 5925.8 |
| #2 | 6238.2 | 81108. | 5832.2 |

Sample Name: 280-42003-A-1-A Acquired: 5/15/2013 10:40:41 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00180** | **147.59** | **.07125** | **.05871** | **1.5282** | **.00758** | **-.00050** | **78.646** | **.00790** |
| Stddev | .00073 | .17 | .00179 | .00018 | .0004 | .00005 | .00272 | .154 | .00018 |
| %RSD | 40.740 | .11811 | 2.5106 | .29948 | .02528 | .66546 | 544.64 | .19520 | 2.2623 |
| #1 | .00128 | 147.71 | .06998 | .05859 | 1.5285 | .00762 | -.00242 | 78.754 | .00777 |
| #2 | .00232 | 147.47 | .07251 | .05884 | 1.5279 | .00755 | .00142 | 78.537 | .00802 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09990** | **.18908** | **.22335** | **202.34** | **29.449** | **.15982** | **37.021** | W **15.004** | **.00229** |
| Stddev | .00117 | .00175 | .00038 | .23 | .014 | .00067 | .091 | .020 | .00026 |
| %RSD | 1.1710 | .92710 | .17211 | .11387 | .04702 | .41906 | .24477 | .13602 | 11.433 |
| #1 | .09907 | .18784 | .22362 | 202.50 | 29.459 | .15934 | 37.085 | 15.019 | .00248 |
| #2 | .10073 | .19032 | .22308 | 202.17 | 29.439 | .16029 | 36.957 | 14.990 | .00211 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2652** | **.22761** | **5.8459** | **.18166** | **4.0986** | **-.00385** | **.00280** | **2.8260** | **.01549** |
| Stddev | .0006 | .00126 | .0492 | .00230 | .0350 | .00079 | .00662 | .0092 | .00001 |
| %RSD | .04338 | .55513 | .84093 | 1.2661 | .85395 | 20.512 | 236.61 | .32684 | .07935 |
| #1 | 1.2648 | .22672 | 5.8112 | .18004 | 4.0739 | -.00329 | -.00188 | 2.8194 | .01549 |
| #2 | 1.2656 | .22851 | 5.8807 | .18329 | 4.1234 | -.00440 | .00747 | 2.8325 | .01548 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27648** | **.08825** | **.51466** | W **-.01596** | W **-.08489** | **.23111** | **7.9389** | **.04749** |
| Stddev | .00032 | .00135 | .00168 | .00189 | .04087 | .00031 | .0017 | .00201 |
| %RSD | .11577 | 1.5350 | .32649 | 11.866 | 48.140 | .13217 | .02189 | 4.2407 |
| #1 | .27671 | .08729 | .51585 | -.01462 | -.05600 | .23132 | 7.9401 | .04892 |
| #2 | .27626 | .08921 | .51347 | -.01730 | -.11379 | .23089 | 7.9377 | .04607 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | 45.000 | | | |
| Low Limit | | | | -.01000 | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6459.1** | **82736.** | **6081.3** |
| Stddev | 34.4 | 204. | 11.0 |
| %RSD | .53219 | .24639 | .18121 |
| #1 | 6483.4 | 82880. | 6089.1 |
| #2 | 6434.8 | 82592. | 6073.5 |

Sample Name: 280-42003-A-12-A  Acquired: 5/15/2013 10:43:04  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **102.52** | **.04324** | **.08147** | **.96028** | **.00602** | **-.00287** | **400.79** | **.01121** |
| Stddev | .00064 | .23 | .00211 | .00047 | .00229 | .00010 | .00053 | 1.14 | .00014 |
| %RSD | 198.45 | .22448 | 4.8818 | .57621 | .23809 | 1.7018 | 18.612 | .28527 | 1.2662 |
| #1 | -.00013 | 102.35 | .04473 | .08114 | .95866 | .00595 | -.00250 | 401.60 | .01131 |
| #2 | .00077 | 102.68 | .04175 | .08180 | .96190 | .00610 | -.00325 | 399.98 | .01111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06154** | **.14493** | **.65591** | **134.41** | **26.902** | **.09464** | **34.911** | **4.2790** | **.00481** |
| Stddev | .00032 | .00068 | .00086 | .15 | .054 | .00022 | .020 | .0057 | .00010 |
| %RSD | .51915 | .46870 | .13093 | .11374 | .20018 | .23118 | .05829 | .13237 | 2.0712 |
| #1 | .06132 | .14445 | .65651 | 134.52 | 26.863 | .09479 | 34.926 | 4.2830 | .00474 |
| #2 | .06177 | .14541 | .65530 | 134.30 | 26.940 | .09448 | 34.897 | 4.2750 | .00488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6772** | **.17034** | **3.7481** | **.89399** | **13.062** | **.00215** | **.00617** | **3.0949** | **.01091** |
| Stddev | .0115 | .00029 | .0102 | .00673 | .065 | .00329 | .00326 | .0137 | .00077 |
| %RSD | .68704 | .16800 | .27294 | .75240 | .49595 | 153.12 | 52.878 | .44331 | 7.0860 |
| #1 | 1.6690 | .17054 | 3.7408 | .88923 | 13.016 | .00447 | .00848 | 3.0852 | .01036 |
| #2 | 1.6853 | .17013 | 3.7553 | .89874 | 13.108 | -.00018 | .00387 | 3.1046 | .01146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1519** | **.05799** | **.35891** | **-.00353** | W **-.05173** | **.12501** | W **11.595** | **.04501** |
| Stddev | .0001 | .00100 | .00115 | .00024 | .03257 | .00086 | .010 | .00020 |
| %RSD | .00537 | 1.7195 | .32179 | 6.8490 | 62.963 | .68524 | .08785 | .44243 |
| #1 | 1.1519 | .05729 | .35973 | -.00370 | -.07476 | .12562 | 11.602 | .04515 |
| #2 | 1.1520 | .05870 | .35810 | -.00336 | -.02870 | .12441 | 11.587 | .04487 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 45.000 | | 10.000 | |
| Low Limit | | | | | -.05000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5964.0** | **76112.** | **5627.5** |
| Stddev | 6.6 | 34. | 13.6 |
| %RSD | .11036 | .04465 | .24164 |
| #1 | 5968.6 | 76088. | 5637.1 |
| #2 | 5959.3 | 76136. | 5617.9 |

Sample Name: 280-42039-A-1-A  Acquired: 5/15/2013 10:45:33  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00116** | **94.996** | **.05053** | **.01738** | **.48510** | **.00438** | **.00184** | **84.176** | **.00187** |
| Stddev | .00015 | .085 | .00002 | .00066 | .00091 | .00001 | .00441 | .066 | .00018 |
| %RSD | 12.698 | .08979 | .04675 | 3.7860 | .18693 | .11698 | 240.01 | .07842 | 9.4540 |
| #1 | .00127 | 94.936 | .05052 | .01691 | .48446 | .00438 | .00495 | 84.129 | .00199 |
| #2 | .00106 | 95.057 | .05055 | .01785 | .48575 | .00438 | -.00128 | 84.222 | .00174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07989** | **.10952** | **.35050** | **237.10** | **10.418** | **.15950** | **38.608** | W **14.112** | **.00309** |
| Stddev | .00030 | .00061 | .00107 | .09 | .006 | .00039 | .047 | .029 | .00007 |
| %RSD | .37492 | .55497 | .30428 | .03727 | .05716 | .24584 | .12122 | .20516 | 2.1125 |
| #1 | .07968 | .10909 | .35125 | 237.16 | 10.422 | .15978 | 38.641 | 14.132 | .00305 |
| #2 | .08010 | .10995 | .34974 | 237.04 | 10.413 | .15922 | 38.575 | 14.091 | .00314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.88839** | **.18575** | **5.3290** | **.07139** | **.91550** | **-.00705** | **.00413** | **1.7812** | **.00483** |
| Stddev | .00904 | .00010 | .0234 | .00046 | .00651 | .00075 | .00236 | .0107 | .00031 |
| %RSD | 1.0177 | .05380 | .43914 | .63856 | .71095 | 10.634 | 57.141 | .60058 | 6.3581 |
| #1 | .89478 | .18568 | 5.3124 | .07106 | .91090 | -.00758 | .00580 | 1.7888 | .00461 |
| #2 | .88200 | .18582 | 5.3455 | .07171 | .92011 | -.00652 | .00246 | 1.7736 | .00505 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14719** | **.06565** | **.38351** | W **-.01269** | **-.01566** | **.17012** | **.51736** | **.03323** |
| Stddev | .00020 | .00061 | .00125 | .00178 | .01039 | .00041 | .00031 | .00064 |
| %RSD | .13797 | .92572 | .32464 | 14.020 | 66.334 | .24230 | .06012 | 1.9127 |
| #1 | .14733 | .06522 | .38439 | -.01394 | -.02300 | .17041 | .51758 | .03278 |
| #2 | .14705 | .06608 | .38263 | -.01143 | -.00831 | .16983 | .51714 | .03368 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6790.0** | **86941.** | **6172.4** |
| Stddev | 15.3 | 237. | 7.2 |
| %RSD | .22534 | .27303 | .11591 |
| #1 | 6800.8 | 86773. | 6167.3 |
| #2 | 6779.2 | 87109. | 6177.4 |

Sample Name: 280-42039-A-2-A  Acquired: 5/15/2013 10:47:59  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00177** | **103.05** | **.03837** | **.01158** | **.82447** | **.00387** | **.00012** | **37.928** | **.00219** |
| Stddev | .00044 | .22 | .00086 | .00001 | .00257 | .00009 | .00189 | .092 | .00003 |
| %RSD | 24.593 | .21389 | 2.2312 | .06492 | .31124 | 2.2356 | 1552.7 | .24163 | 1.2712 |
| #1 | .00146 | 103.21 | .03776 | .01159 | .82628 | .00381 | -.00121 | 37.993 | .00221 |
| #2 | .00208 | 102.90 | .03897 | .01158 | .82265 | .00393 | .00145 | 37.863 | .00217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05879** | **.12470** | **.14669** | **205.58** | **8.0815** | **.14337** | **21.310** | W **14.351** | **.00953** |
| Stddev | .00001 | .00008 | .00017 | .65 | .0100 | .00099 | .058 | .150 | .00013 |
| %RSD | .01208 | .06420 | .11823 | .31478 | .12346 | .68744 | .27243 | 1.0432 | 1.4006 |
| #1 | .05880 | .12476 | .14656 | 206.04 | 8.0745 | .14407 | 21.351 | 14.456 | .00962 |
| #2 | .05879 | .12465 | .14681 | 205.13 | 8.0886 | .14268 | 21.269 | 14.245 | .00944 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9737** | **.10152** | **9.7418** | **.08979** | **1.4727** | **-.00491** | **.00345** | **2.1267** | **.01055** |
| Stddev | .0164 | .00001 | .0154 | .00110 | .0003 | .00025 | .00127 | .0136 | .00017 |
| %RSD | .83360 | .00709 | .15753 | 1.2237 | .01799 | 5.1162 | 36.701 | .63705 | 1.6453 |
| #1 | 1.9854 | .10152 | 9.7309 | .09056 | 1.4729 | -.00509 | .00256 | 2.1171 | .01068 |
| #2 | 1.9621 | .10153 | 9.7526 | .08901 | 1.4726 | -.00473 | .00435 | 2.1363 | .01043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07776** | **.05854** | **.95437** | W **-.01283** | **.00974** | **.22743** | **.55782** | **.00901** |
| Stddev | .00003 | .00148 | .00092 | .00052 | .00056 | .00099 | .00149 | .00172 |
| %RSD | .03861 | 2.5341 | .09662 | 4.0626 | 5.7057 | .43741 | .26724 | 19.044 |
| #1 | .07774 | .05749 | .95502 | -.01246 | .01014 | .22813 | .55888 | .01022 |
| #2 | .07778 | .05959 | .95372 | -.01320 | .00935 | .22672 | .55677 | .00780 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6306.7** | **80235.** | **5748.3** |
| Stddev | 10.9 | 203. | 9.7 |
| %RSD | .17255 | .25305 | .16907 |
| #1 | 6314.4 | 80092. | 5741.4 |
| #2 | 6299.0 | 80379. | 5755.1 |

Sample Name: 280-42039-A-3-A  Acquired: 5/15/2013 10:50:24  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **99.376** | **.03807** | **.01616** | **.46330** | **.00477** | **-.00073** | **24.902** | **.00145** |
| Stddev | .00020 | .168 | .00080 | .00072 | .00160 | .00001 | .00139 | .066 | .00005 |
| %RSD | 51.695 | .16924 | 2.1104 | 4.4853 | .34579 | .26548 | 189.84 | .26562 | 3.2052 |
| #1 | .00024 | 99.495 | .03864 | .01564 | .46443 | .00478 | .00025 | 24.949 | .00148 |
| #2 | .00052 | 99.257 | .03750 | .01667 | .46216 | .00476 | -.00171 | 24.855 | .00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06678** | **.14594** | **.27559** | **203.79** | **11.150** | **.19611** | **37.688** | W **10.118** | **.00981** |
| Stddev | .00010 | .00021 | .00076 | .34 | .013 | .00220 | .088 | .022 | .00004 |
| %RSD | .14245 | .14262 | .27450 | .16653 | .11990 | 1.1199 | .23457 | .21337 | .40663 |
| #1 | .06671 | .14579 | .27613 | 204.03 | 11.159 | .19455 | 37.751 | 10.133 | .00984 |
| #2 | .06685 | .14608 | .27506 | 203.55 | 11.140 | .19766 | 37.626 | 10.102 | .00978 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2443** | **.15245** | **5.9572** | **.05431** | **.59328** | **-.00488** | **-.00033** | **1.6475** | **.00707** |
| Stddev | .0186 | .00041 | .0065 | .00112 | .00086 | .00336 | .00059 | .0167 | .00055 |
| %RSD | 1.4953 | .26992 | .10891 | 2.0690 | .14428 | 68.858 | 178.46 | 1.0129 | 7.7266 |
| #1 | 1.2575 | .15274 | 5.9527 | .05510 | .59267 | -.00250 | .00009 | 1.6593 | .00745 |
| #2 | 1.2312 | .15216 | 5.9618 | .05351 | .59388 | -.00726 | -.00074 | 1.6357 | .00668 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06067** | **.07900** | **.66271** | W **-.01088** | **-.03018** | **.15959** | **.55043** | **.02558** |
| Stddev | .00055 | .00216 | .00275 | .00067 | .04429 | .00003 | .00041 | .00250 |
| %RSD | .90637 | 2.7405 | .41490 | 6.1874 | 146.75 | .01832 | .07523 | 9.7767 |
| #1 | .06106 | .07746 | .66465 | -.01040 | .00114 | .15961 | .55073 | .02735 |
| #2 | .06028 | .08053 | .66076 | -.01136 | -.06150 | .15957 | .55014 | .02381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6953.3** | **88321.** | **6277.2** |
| Stddev | 6.2 | 249. | 25.7 |
| %RSD | .08882 | .28151 | .40879 |
| #1 | 6957.7 | 88146. | 6259.1 |
| #2 | 6948.9 | 88497. | 6295.4 |

Sample Name: 280-42039-A-4-A Acquired: 5/15/2013 10:52:49 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **82.394** | **.05378** | **.02437** | **.33032** | **.00451** | **-.00320** | **71.136** | **.00228** |
| Stddev | .00013 | .321 | .00038 | .00013 | .00006 | .00008 | .00025 | .196 | .00029 |
| %RSD | 25.935 | .39008 | .69734 | .53128 | .01723 | 1.7106 | 7.7651 | .27608 | 12.702 |
| #1 | .00061 | 82.166 | .05405 | .02428 | .33028 | .00446 | -.00338 | 70.998 | .00249 |
| #2 | .00042 | 82.621 | .05352 | .02446 | .33036 | .00457 | -.00302 | 71.275 | .00208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06963** | **.11218** | **.26313** | **173.79** | **12.453** | **.14762** | **40.300** | **6.8243** | **.00311** |
| Stddev | .00046 | .00075 | .00028 | .68 | .004 | .00305 | .038 | .0008 | .00047 |
| %RSD | .66410 | .66785 | .10769 | .39310 | .03014 | 2.0646 | .09467 | .01130 | 15.242 |
| #1 | .06996 | .11271 | .26293 | 173.31 | 12.455 | .14547 | 40.327 | 6.8237 | .00277 |
| #2 | .06930 | .11165 | .26333 | 174.27 | 12.450 | .14978 | 40.273 | 6.8248 | .00344 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85920** | **.15930** | **4.7854** | **.18599** | **.66518** | **-.00232** | **.00031** | **1.9105** | **.00652** |
| Stddev | .00197 | .00113 | .0222 | .00257 | .00185 | .00085 | .00122 | .0112 | .00008 |
| %RSD | .22901 | .70834 | .46379 | 1.3828 | .27753 | 36.572 | 389.67 | .58540 | 1.1577 |
| #1 | .86059 | .16010 | 4.8011 | .18781 | .66388 | -.00172 | .00118 | 1.9026 | .00646 |
| #2 | .85781 | .15851 | 4.7698 | .18417 | .66649 | -.00292 | -.00055 | 1.9184 | .00657 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14019** | **.05296** | **.67250** | **-.00593** | **-.00318** | **.16401** | **.55300** | **.03649** |
| Stddev | .00009 | .00288 | .00076 | .00110 | .03703 | .00067 | .00071 | .00017 |
| %RSD | .06426 | 5.4304 | .11307 | 18.541 | 1163.9 | .41041 | .12859 | .47681 |
| #1 | .14025 | .05092 | .67304 | -.00515 | .02300 | .16448 | .55250 | .03661 |
| #2 | .14012 | .05499 | .67196 | -.00670 | -.02936 | .16353 | .55350 | .03636 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6695.2** | **85766.** | **6025.9** |
| Stddev | .4 | 254. | 15.6 |
| %RSD | .00642 | .29615 | .25950 |
| #1 | 6694.9 | 85587. | 6037.0 |
| #2 | 6695.5 | 85946. | 6014.9 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 10:55:14 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00747** | **52.303** | **-.00047** | **-.00661** | **.00101** | **-.00002** | **1.0426** | **.00759** | **-.00106** | **.00212** | **-.00012** | **.00145** | **52.180** |
| Stddev | .00038 | .147 | .00081 | .00015 | .00076 | .00003 | .0082 | .00858 | .00013 | .00033 | .00004 | .00026 | .031 |
| %RSD | 5.0485 | .28194 | 173.20 | 2.2724 | 75.259 | 176.43 | .78668 | 113.10 | 12.453 | 15.531 | 30.276 | 17.961 | .05883 |
| #1 | .00720 | 52.199 | .00011 | -.00650 | .00155 | .00000 | 1.0484 | .01365 | -.00096 | .00235 | -.00009 | .00164 | 52.201 |
| #2 | .00773 | 52.408 | -.00104 | -.00671 | .00047 | -.00004 | 1.0368 | .00152 | -.00115 | .00188 | -.00015 | .00127 | 52.158 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03719** | **.00714** | **-.01073** | **-.00021** | **-.00193** | **269.75** | **.00179** | **-.00630** | **-.00046** | **5.3830** | **-.00327** | **.00164** | **.02312** |
| Stddev | .06320 | .00341 | .00290 | .00009 | .00008 | .08 | .00034 | .00006 | .00082 | .0481 | .00040 | .00145 | .01993 |
| %RSD | 169.95 | 47.718 | 27.033 | 40.968 | 4.3122 | .03093 | 19.216 | 1.0032 | 176.14 | .89313 | 12.189 | 88.062 | 86.219 |
| #1 | -.08187 | .00955 | -.00868 | -.00015 | -.00199 | 269.69 | .00203 | -.00634 | .00011 | 5.4170 | -.00298 | .00267 | .00903 |
| #2 | .00750 | .00473 | -.01278 | -.00027 | -.00187 | 269.81 | .00155 | -.00625 | -.00104 | 5.3490 | -.00355 | .00062 | .03722 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00031** | **5.3711** | **.00267** | **-.00297** | **10.465** | **-.00026** | **.00377** | **-.04321** |
| Stddev | .00003 | .00013 | .0049 | .00006 | .00016 | .012 | .00006 | .00058 | .00093 |
| %RSD | 13.529 | 43.485 | .09196 | 2.3932 | 5.2688 | .11782 | 23.154 | 15.375 | 2.1545 |
| #1 | .00017 | .00021 | 5.3746 | .00263 | -.00286 | 10.473 | -.00030 | .00418 | -.04386 |
| #2 | .00020 | .00040 | 5.3676 | .00272 | -.00309 | 10.456 | -.00021 | .00336 | -.04255 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5870.3** | **74965.** | **5243.5** |
| Stddev | 23.0 | 80. | 2.5 |
| %RSD | .39257 | .10733 | .04691 |
| #1 | 5854.0 | 74908. | 5241.7 |
| #2 | 5886.6 | 75022. | 5245.2 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 10:57:39 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54541** | **.51455** | **1.0604** | **.51088** | **.52436** | **.49466** | **.00052** | **5.2042** | **.52751** | **.53164** | **.51454** | **.51953** |
| Stddev | .00206 | .00185 | .0000 | .00095 | .00435 | .00208 | .00049 | .0646 | .00006 | .00017 | .00090 | .00035 |
| %RSD | .37755 | .35978 | .00015 | .18517 | .82942 | .41985 | 95.603 | 1.2422 | .01224 | .03115 | .17400 | .06777 |
| #1 | .54395 | .51586 | 1.0604 | .51155 | .52744 | .49613 | .00017 | 5.2499 | .52746 | .53152 | .51517 | .51978 |
| #2 | .54686 | .51324 | 1.0604 | .51021 | .52129 | .49319 | .00087 | 5.1585 | .52755 | .53175 | .51390 | .51928 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5192** | **52.678** | **1.0617** | **21.963** | **.54324** | **.50608** | **5.3781** | **.52538** | **1.0235** | **1.0514** | **.01299** | **1.0506** |
| Stddev | .0049 | .403 | .0023 | .062 | .00075 | .00093 | .0780 | .00113 | .0075 | .0038 | .00024 | .0110 |
| %RSD | .19475 | .76505 | .22029 | .28432 | .13718 | .18439 | 1.4495 | .21537 | .73005 | .36012 | 1.8463 | 1.0469 |
| #1 | 2.5226 | 52.963 | 1.0633 | 22.007 | .54377 | .50674 | 5.4332 | .52618 | 1.0288 | 1.0541 | .01315 | 1.0584 |
| #2 | 2.5157 | 52.393 | 1.0600 | 21.919 | .54272 | .50542 | 5.3230 | .52458 | 1.0182 | 1.0487 | .01282 | 1.0428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0388** | **5.1147** | **1.0243** | **.50426** | **.00312** | **.52906** | **1.0076** | **.00730** | **.52756** | F **.56224** | **.51276** |
| Stddev | .0067 | .0137 | .0035 | .00365 | .00185 | .00038 | .0022 | .04936 | .00181 | .00247 | .00196 |
| %RSD | .64279 | .26688 | .34580 | .72343 | 59.337 | .07269 | .21563 | 676.07 | .34292 | .43914 | .38183 |
| #1 | 1.0435 | 5.1244 | 1.0268 | .50684 | .00443 | .52933 | 1.0091 | .04220 | .52884 | .56399 | .51414 |
| #2 | 1.0341 | 5.1051 | 1.0218 | .50168 | .00181 | .52879 | 1.0060 | -.02760 | .52628 | .56050 | .51138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5974.1** | **76797.** | **5391.9** |
| Stddev | 10.8 | 383. | 35.4 |
| %RSD | .17998 | .49831 | .65574 |
| #1 | 5966.5 | 76526. | 5366.9 |
| #2 | 5981.7 | 77067. | 5416.9 |

Sample Name: CCB Acquired: 5/15/2013 10:59:52 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **.00059** | **.00002** | F **-.00715** | W **.00068** | **.00001** | **-.00388** | **-.00272** | **.00004** | **.00023** | **-.00022** |
| Stddev | .00071 | .00053 | .00181 | .00008 | .00019 | .00001 | .00103 | .00293 | .00018 | .00001 | .00002 |
| %RSD | 402.35 | 89.061 | 8872.6 | 1.0865 | 28.302 | 143.49 | 26.557 | 107.64 | 403.91 | 6.2124 | 8.0457 |
| #1 | .00032 | .00096 | -.00126 | -.00721 | .00082 | -.00000 | -.00461 | -.00480 | .00017 | .00024 | -.00021 |
| #2 | -.00068 | .00022 | .00130 | -.00710 | .00055 | .00002 | -.00315 | -.00065 | -.00008 | .00022 | -.00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00088** | **-.04272** | F **.00550** | **.00065** | **.00013** | **-.00009** | F **.20999** | **-.00013** | **-.00958** | **-.00012** |
| Stddev | .00039 | .00024 | .01557 | .00076 | .00085 | .00005 | .00000 | .00039 | .00016 | .00118 | .00178 |
| %RSD | 184.20 | 26.702 | 36.449 | 13.842 | 130.85 | 36.580 | 1.2589 | .18746 | 126.82 | 12.363 | 1438.3 |
| #1 | .00048 | .00071 | -.05374 | .00496 | .00005 | .00017 | -.00008 | .21026 | -.00025 | -.00874 | .00114 |
| #2 | -.00006 | .00105 | -.03171 | .00604 | .00126 | .00010 | -.00009 | .20971 | -.00001 | -.01042 | -.00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | | |
| Low Limit | | | | -.00522 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01294** | **-.00113** | **-.00102** | **.01698** | **-.00001** | **.00007** | **.00020** | **.00044** | **-.00137** | **.04614** | **.00025** |
| Stddev | .00076 | .00087 | .00079 | .00548 | .00030 | .00000 | .00005 | .00022 | .00095 | .02395 | .00004 |
| %RSD | 5.8988 | 77.279 | 77.780 | 32.254 | 4356.5 | 2.1276 | 23.305 | 50.062 | 69.217 | 51.906 | 13.969 |
| #1 | .01348 | -.00051 | -.00158 | .02086 | .00020 | .00007 | .00017 | .00060 | -.00204 | .02920 | .00028 |
| #2 | .01240 | -.00175 | -.00046 | .01311 | -.00022 | .00007 | .00023 | .00029 | -.00070 | .06307 | .00023 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00302** | **-.00137** |
| Stddev | .00030 | .00087 |
| %RSD | 10.048 | 63.532 |
| #1 | .00281 | -.00075 |
| #2 | .00324 | -.00199 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5968.0** | **77934.** | **5325.7** |
| Stddev | 9.8 | 198. | 27.1 |
| %RSD | .16343 | .25369 | .50952 |
| #1 | 5974.9 | 78074. | 5306.5 |
| #2 | 5961.1 | 77794. | 5344.9 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 11:02:20 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01131** | **.11963** | **.01586** | **.09177** | **.01185** | **.00099** | **.11403** | F **.29355** | **.00546** | **.01196** | **.01150** |
| Stddev | .00001 | .00050 | .00215 | .00016 | .00040 | .00004 | .00090 | .00100 | .00012 | .00011 | .00001 |
| %RSD | .07480 | .42060 | 13.550 | .17639 | 3.3704 | 4.3790 | .78687 | .33926 | 2.2195 | .89996 | .12933 |
| #1 | .01130 | .11999 | .01434 | .09188 | .01213 | .00096 | .11466 | .29425 | .00554 | .01188 | .01149 |
| #2 | .01132 | .11928 | .01738 | .09165 | .01156 | .00102 | .11339 | .29284 | .00537 | .01204 | .01151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .20000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01638** | F **.16859** | **3.3684** | F **.01758** | W **.24308** | W **.01233** | **.02077** | F **1.3565** | **.04570** | **3.1761** | **.01045** |
| Stddev | .00059 | .00169 | .0681 | .00064 | .00057 | .00001 | .00006 | .0012 | .00027 | .0071 | .00060 |
| %RSD | 3.5722 | 1.0031 | 2.0217 | 3.6301 | .23296 | .10967 | .28880 | .08913 | .58992 | .22291 | 5.7532 |
| #1 | .01679 | .16739 | 3.4166 | .01803 | .24268 | .01234 | .02081 | 1.3573 | .04589 | 3.1711 | .01002 |
| #2 | .01597 | .16978 | 3.3203 | .01712 | .24348 | .01232 | .02073 | 1.3556 | .04551 | 3.1811 | .01087 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Warn | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | .20000 | .01000 | | 1.0000 | | | |
| Range | | 30.000% | | 30.000% | 20.000% | 20.000% | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02096** | **.01063** | **.01420** | **.53250** | **.10898** | **.01085** | **.01711** | **.01125** | **.01495** | F **.10335** | **.01099** |
| Stddev | .00028 | .00164 | .00173 | .00677 | .00001 | .00012 | .00079 | .00026 | .00005 | .00315 | .00028 |
| %RSD | 1.3189 | 15.378 | 12.176 | 1.2709 | .00915 | 1.1135 | 4.5925 | 2.2799 | .31505 | 3.0523 | 2.5529 |
| #1 | .02116 | .00948 | .01542 | .53728 | .10899 | .01093 | .01656 | .01143 | .01498 | .10558 | .01080 |
| #2 | .02076 | .01179 | .01298 | .52771 | .10897 | .01076 | .01767 | .01107 | .01492 | .10112 | .01119 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.03689** | **.01541** |
| Stddev | .00022 | .00131 |
| %RSD | .60640 | 8.4851 |
| #1 | .03705 | .01634 |
| #2 | .03673 | .01449 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6291.3** | **81129.** | **5579.1** |
| Stddev | 24.7 | 159. | 82.9 |
| %RSD | .39275 | .19584 | 1.4859 |
| #1 | 6273.8 | 81017. | 5520.4 |
| #2 | 6308.8 | 81242. | 5637.7 |

Sample Name: 280-42039-A-5-A Acquired: 5/15/2013 11:04:43 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **96.564** | **.02942** | **.01585** | **.58439** | **.00346** | **-.00157** | **50.973** | **.00278** |
| Stddev | .00029 | .532 | .00213 | .00019 | .00220 | .00004 | .00005 | .242 | .00015 |
| %RSD | 27.367 | .55054 | 7.2265 | 1.1766 | .37620 | 1.2013 | 2.9000 | .47482 | 5.2808 |
| #1 | .00087 | 96.188 | .02792 | .01571 | .58283 | .00349 | -.00153 | 50.802 | .00267 |
| #2 | .00128 | 96.940 | .03093 | .01598 | .58594 | .00343 | -.00160 | 51.144 | .00288 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05906** | **.10869** | **.17173** | **162.70** | **8.7712** | **.14350** | **28.834** | **8.4515** | **.00434** |
| Stddev | .00011 | .00029 | .00011 | .52 | .0348 | .00013 | .038 | .0332 | .00019 |
| %RSD | .18895 | .26487 | .06567 | .32241 | .39683 | .08724 | .13151 | .39256 | 4.4064 |
| #1 | .05898 | .10848 | .17181 | 162.33 | 8.7465 | .14359 | 28.860 | 8.4280 | .00448 |
| #2 | .05914 | .10889 | .17165 | 163.07 | 8.7958 | .14342 | 28.807 | 8.4749 | .00421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.83160** | **.11039** | **5.9428** | **.12359** | **1.2864** | **-.00331** | **-.00062** | **2.0502** | **.00906** |
| Stddev | .01796 | .00038 | .0055 | .00034 | .0024 | .00554 | .00416 | .0028 | .00066 |
| %RSD | 2.1603 | .34058 | .09265 | .27402 | .18881 | 167.23 | 674.78 | .13480 | 7.3176 |
| #1 | .84430 | .11013 | 5.9389 | .12335 | 1.2847 | .00060 | .00233 | 2.0482 | .00953 |
| #2 | .81890 | .11066 | 5.9467 | .12383 | 1.2881 | -.00722 | -.00356 | 2.0521 | .00859 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09278** | **.04641** | **.90232** | **-.00737** | **.01583** | **.18883** | **.58510** | **.01076** |
| Stddev | .00040 | .00030 | .00410 | .00075 | .00776 | .00116 | .00126 | .00032 |
| %RSD | .42720 | .64483 | .45423 | 10.248 | 49.034 | .61329 | .21519 | 2.9966 |
| #1 | .09306 | .04662 | .90521 | -.00790 | .02132 | .18965 | .58599 | .01053 |
| #2 | .09250 | .04619 | .89942 | -.00683 | .01034 | .18801 | .58421 | .01099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6441.5** | **82730.** | **5928.0** |
| Stddev | 2.6 | 263. | 47.3 |
| %RSD | .04090 | .31774 | .79744 |
| #1 | 6439.6 | 82544. | 5961.5 |
| #2 | 6443.3 | 82915. | 5894.6 |

Sample Name: 280-42039-A-6-A  Acquired: 5/15/2013 11:07:09  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **83.587** | **.03139** | **.01697** | **.34873** | **.00368** | **-.00085** | **19.362** | **.00124** |
| Stddev | .00064 | .317 | .00088 | .00035 | .00223 | .00005 | .00030 | .057 | .00010 |
| %RSD | 54.141 | .37983 | 2.8111 | 2.0673 | .63959 | 1.3745 | 35.414 | .29680 | 8.2033 |
| #1 | .00163 | 83.812 | .03202 | .01721 | .35031 | .00364 | -.00064 | 19.402 | .00117 |
| #2 | .00073 | 83.363 | .03077 | .01672 | .34715 | .00371 | -.00107 | 19.321 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05389** | **.10803** | **.25097** | **181.82** | **10.362** | **.14247** | **34.151** | **8.9751** | **.00585** |
| Stddev | .00003 | .00022 | .00061 | .68 | .060 | .00034 | .062 | .0074 | .00000 |
| %RSD | .05164 | .20066 | .24491 | .37400 | .58096 | .23600 | .18156 | .08203 | .05495 |
| #1 | .05391 | .10818 | .25053 | 182.30 | 10.404 | .14223 | 34.195 | 8.9698 | .00585 |
| #2 | .05387 | .10787 | .25140 | 181.34 | 10.319 | .14271 | 34.107 | 8.9803 | .00585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.71070** | **.12919** | **4.3727** | **.05349** | **.27747** | **-.00517** | **.00354** | **1.8937** | **.00550** |
| Stddev | .01091 | .00047 | .0013 | .00166 | .00134 | .00028 | .00137 | .0068 | .00006 |
| %RSD | 1.5344 | .36573 | .02907 | 3.1069 | .48184 | 5.4791 | 38.631 | .36090 | 1.1461 |
| #1 | .71841 | .12952 | 4.3718 | .05232 | .27842 | -.00497 | .00451 | 1.8985 | .00554 |
| #2 | .70299 | .12885 | 4.3736 | .05467 | .27653 | -.00537 | .00257 | 1.8889 | .00545 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05299** | **.06210** | **.45855** | **-.00865** | **-.01058** | **.14569** | **.50535** | **.03197** |
| Stddev | .00028 | .00018 | .00073 | .00012 | .04543 | .00015 | .00138 | .00026 |
| %RSD | .52199 | .29388 | .15819 | 1.3951 | 429.27 | .10595 | .27353 | .82241 |
| #1 | .05319 | .06223 | .45804 | -.00873 | -.04270 | .14558 | .50632 | .03179 |
| #2 | .05280 | .06197 | .45906 | -.00856 | .02154 | .14580 | .50437 | .03216 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6999.5** | **90326.** | **6391.9** |
| Stddev | 12.1 | 306. | 41.0 |
| %RSD | .17223 | .33924 | .64081 |
| #1 | 7008.1 | 90109. | 6362.9 |
| #2 | 6991.0 | 90543. | 6420.8 |

Sample Name: 280-42039-A-7-A  Acquired: 5/15/2013 11:09:34  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **76.244** | **.03953** | **.02996** | **.51139** | **.00370** | **.00036** | **110.41** | **.00255** |
| Stddev | .00012 | .049 | .00106 | .00004 | .00078 | .00001 | .00076 | .00 | .00016 |
| %RSD | 13.056 | .06431 | 2.6836 | .14757 | .15245 | .40494 | 211.57 | .00444 | 6.4232 |
| #1 | .00100 | 76.209 | .04028 | .02993 | .51194 | .00371 | -.00018 | 110.41 | .00267 |
| #2 | .00083 | 76.278 | .03878 | .02999 | .51084 | .00369 | .00090 | 110.40 | .00243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05898** | **.11924** | **.24845** | **150.85** | **10.980** | **.13752** | **30.820** | **5.7424** | **.00233** |
| Stddev | .00016 | .00003 | .00078 | .56 | .008 | .00113 | .001 | .0121 | .00012 |
| %RSD | .27445 | .02596 | .31547 | .37411 | .07566 | .81873 | .00396 | .21052 | 5.1423 |
| #1 | .05887 | .11922 | .24901 | 150.45 | 10.985 | .13673 | 30.820 | 5.7509 | .00242 |
| #2 | .05910 | .11926 | .24790 | 151.25 | 10.974 | .13832 | 30.819 | 5.7338 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96682** | **.13423** | **4.7828** | **.36631** | **1.2629** | **-.00360** | **.00012** | **2.2017** | **.00783** |
| Stddev | .01431 | .00005 | .0052 | .00169 | .0093 | .00182 | .00221 | .0481 | .00029 |
| %RSD | 1.4803 | .03838 | .10931 | .46090 | .73661 | 50.429 | 1850.7 | 2.1830 | 3.7293 |
| #1 | .97694 | .13419 | 4.7791 | .36512 | 1.2564 | -.00232 | .00168 | 2.2357 | .00804 |
| #2 | .95670 | .13426 | 4.7865 | .36751 | 1.2695 | -.00489 | -.00144 | 2.1678 | .00762 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16172** | **.04852** | **.61423** | **-.00639** | **-.01479** | **.16610** | **.61332** | **.01662** |
| Stddev | .00038 | .00138 | .00176 | .00011 | .00046 | .00055 | .00063 | .00172 |
| %RSD | .23264 | 2.8425 | .28620 | 1.7391 | 3.1274 | .33031 | .10327 | 10.363 |
| #1 | .16199 | .04754 | .61547 | -.00647 | -.01512 | .16571 | .61376 | .01783 |
| #2 | .16145 | .04949 | .61299 | -.00631 | -.01446 | .16648 | .61287 | .01540 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6622.4** | **85266.** | **6149.6** |
| Stddev | 3.7 | 26. | 13.6 |
| %RSD | .05632 | .03019 | .22079 |
| #1 | 6619.7 | 85284. | 6140.0 |
| #2 | 6625.0 | 85248. | 6159.2 |

Sample Name: 280-42039-A-8-A Acquired: 5/15/2013 11:12:00 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD v4.1 Custom ID2: Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **118.70** | **.04202** | **.01836** | **.36024** | **.00484** | **-.00105** | **91.549** | **.00208** |
| Stddev | .00023 | .17 | .00012 | .00005 | .00011 | .00001 | .00429 | .100 | .00003 |
| %RSD | 26.138 | .14700 | .29612 | .27012 | .03006 | .22999 | 407.26 | .10886 | 1.4721 |
| #1 | .00071 | 118.57 | .04211 | .01832 | .36031 | .00484 | .00198 | 91.479 | .00205 |
| #2 | .00104 | 118.82 | .04194 | .01839 | .36016 | .00485 | -.00409 | 91.620 | .00210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07021** | **.14934** | **.29119** | **227.53** | **10.888** | **.19938** | **45.401** | **9.1248** | **.00815** |
| Stddev | .00011 | .00029 | .00036 | .43 | .085 | .00287 | .020 | .0715 | .00004 |
| %RSD | .16289 | .19142 | .12290 | .18948 | .77641 | 1.4378 | .04476 | .78351 | .47421 |
| #1 | .07029 | .14954 | .29144 | 227.23 | 10.828 | .20141 | 45.416 | 9.1753 | .00813 |
| #2 | .07013 | .14913 | .29093 | 227.84 | 10.948 | .19736 | 45.387 | 9.0742 | .00818 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90928** | **.19452** | **5.5214** | **.07053** | **1.0082** | **-.00589** | **.00532** | **1.9048** | **.00688** |
| Stddev | .01090 | .00097 | .0129 | .00055 | .0024 | .00204 | .00769 | .0000 | .00078 |
| %RSD | 1.1984 | .50097 | .23370 | .77759 | .24064 | 34.656 | 144.66 | .00050 | 11.393 |
| #1 | .90158 | .19521 | 5.5306 | .07014 | 1.0065 | -.00733 | .01075 | 1.9049 | .00744 |
| #2 | .91699 | .19383 | 5.5123 | .07092 | 1.0099 | -.00444 | -.00012 | 1.9048 | .00633 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11846** | **.07208** | **.58853** | **-.00905** | **-.01549** | **.20077** | **.62215** | **.03085** |
| Stddev | .00008 | .00003 | .00110 | .00013 | .01425 | .00114 | .00279 | .00070 |
| %RSD | .06633 | .04709 | .18752 | 1.4674 | 92.000 | .56827 | .44892 | 2.2658 |
| #1 | .11852 | .07206 | .58931 | -.00895 | -.00541 | .20158 | .62412 | .03135 |
| #2 | .11841 | .07211 | .58775 | -.00914 | -.02557 | .19997 | .62017 | .03036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6592.6** | **84277.** | **6014.6** |
| Stddev | 5.5 | 1. | 4.0 |
| %RSD | .08362 | .00165 | .06647 |
| #1 | 6596.5 | 84276. | 6017.5 |
| #2 | 6588.8 | 84278. | 6011.8 |

Sample Name: 280-42039-A-9-A  Acquired: 5/15/2013 11:14:25  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **98.205** | **.04289** | **.02321** | **.41085** | **.00432** | **.00092** | **104.75** | **.00136** |
| Stddev | .00009 | .398 | .00081 | .00069 | .00235 | .00013 | .00106 | .61 | .00002 |
| %RSD | 16.906 | .40524 | 1.8988 | 2.9581 | .57240 | 3.1212 | 115.01 | .58710 | 1.3344 |
| #1 | .00046 | 98.486 | .04347 | .02273 | .41252 | .00441 | .00017 | 105.18 | .00134 |
| #2 | .00058 | 97.924 | .04231 | .02370 | .40919 | .00422 | .00167 | 104.31 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07141** | **.13117** | **.37520** | **205.28** | **12.374** | **.18142** | **45.769** | **9.2632** | **.00662** |
| Stddev | .00011 | .00046 | .00046 | .79 | .096 | .00042 | .096 | .0211 | .00005 |
| %RSD | .15318 | .35086 | .12244 | .38501 | .77307 | .23115 | .20872 | .22738 | .77659 |
| #1 | .07134 | .13084 | .37553 | 205.84 | 12.441 | .18172 | 45.701 | 9.2483 | .00659 |
| #2 | .07149 | .13149 | .37488 | 204.72 | 12.306 | .18112 | 45.836 | 9.2780 | .00666 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.91303** | **.15968** | **5.6143** | **.06641** | **.85991** | **-.00527** | **.00034** | **1.9304** | **.00578** |
| Stddev | .00768 | .00040 | .0036 | .00123 | .00109 | .00108 | .00377 | .0030 | .00005 |
| %RSD | .84143 | .25036 | .06374 | 1.8571 | .12626 | 20.389 | 1114.9 | .15560 | .92234 |
| #1 | .91846 | .15940 | 5.6168 | .06554 | .85914 | -.00603 | .00300 | 1.9283 | .00575 |
| #2 | .90760 | .15996 | 5.6117 | .06728 | .86068 | -.00451 | -.00233 | 1.9325 | .00582 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13680** | **.06206** | **.59174** | **-.00872** | **-.02739** | **.17841** | **.58569** | **.03697** |
| Stddev | .00104 | .00113 | .00132 | .00011 | .02273 | .00006 | .00205 | .00336 |
| %RSD | .76113 | 1.8164 | .22250 | 1.2724 | 82.990 | .03496 | .34970 | 9.0906 |
| #1 | .13754 | .06126 | .59081 | -.00864 | -.04347 | .17845 | .58425 | .03934 |
| #2 | .13607 | .06285 | .59267 | -.00880 | -.01132 | .17836 | .58714 | .03459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7232.8** | **93333.** | **6693.4** |
| Stddev | 3.0 | 466. | 43.9 |
| %RSD | .04108 | .49962 | .65530 |
| #1 | 7234.9 | 93662. | 6662.4 |
| #2 | 7230.7 | 93003. | 6724.4 |

Sample Name: 280-42039-A-10-A  Acquired: 5/15/2013 11:16:49  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: DoD v4.1  Custom ID2:  Custom ID3:
Comment: 173661 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **94.614** | **.03367** | **.01602** | **.31888** | **.00379** | **-.00143** | **20.474** | **.00164** |
| Stddev | .00110 | .068 | .00047 | .00038 | .00067 | .00004 | .00046 | .006 | .00027 |
| %RSD | 1982.8 | .07196 | 1.3927 | 2.3757 | .20970 | 1.1434 | 32.047 | .02743 | 16.593 |
| #1 | .00072 | 94.662 | .03334 | .01575 | .31935 | .00376 | -.00176 | 20.478 | .00183 |
| #2 | -.00083 | 94.566 | .03400 | .01629 | .31840 | .00382 | -.00111 | 20.470 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05360** | **.10271** | **.20689** | **173.77** | **8.7791** | **.15292** | **32.940** | **5.1968** | **.00155** |
| Stddev | .00020 | .00041 | .00011 | .28 | .0568 | .00012 | .017 | .0776 | .00023 |
| %RSD | .37480 | .40393 | .05288 | .16121 | .64669 | .07837 | .05131 | 1.4930 | 15.009 |
| #1 | .05346 | .10242 | .20696 | 173.57 | 8.8192 | .15284 | 32.928 | 5.1419 | .00138 |
| #2 | .05374 | .10300 | .20681 | 173.97 | 8.7389 | .15301 | 32.952 | 5.2516 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.83286** | **.13579** | **5.2029** | **.09106** | **.58661** | **-.00467** | **-.00213** | **1.8997** | **.00657** |
| Stddev | .00110 | .00041 | .0060 | .00188 | .00015 | .00314 | .00461 | .0360 | .00023 |
| %RSD | .13240 | .30197 | .11601 | 2.0668 | .02563 | 67.165 | 215.86 | 1.8947 | 3.4786 |
| #1 | .83364 | .13550 | 5.1987 | .09239 | .58651 | -.00245 | -.00539 | 1.9252 | .00674 |
| #2 | .83208 | .13608 | 5.2072 | .08973 | .58672 | -.00689 | .00112 | 1.8742 | .00641 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05587** | **.07693** | **.57845** | **-.00642** | **-.00977** | **.16392** | **.52112** | **.01564** |
| Stddev | .00005 | .00070 | .00017 | .00110 | .02274 | .00004 | .00007 | .00163 |
| %RSD | .09602 | .91487 | .03010 | 17.058 | 232.64 | .02582 | .01411 | 10.426 |
| #1 | .05591 | .07742 | .57857 | -.00565 | -.02585 | .16389 | .52117 | .01679 |
| #2 | .05583 | .07643 | .57832 | -.00720 | .00630 | .16395 | .52107 | .01448 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6601.7** | **84772.** | **6038.0** |
| Stddev | 13.6 | 84. | 5.9 |
| %RSD | .20525 | .09950 | .09801 |
| #1 | 6592.1 | 84712. | 6042.2 |
| #2 | 6611.3 | 84831. | 6033.9 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 11:19:15 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00820** | **51.868** | **-.00379** | **-.00630** | **.00094** | **-.00010** | **1.0549** | **.00514** | **-.00080** | **.00206** | **-.00001** | **.00177** | **52.608** |
| Stddev | .00041 | .074 | .00022 | .00006 | .00004 | .00009 | .0055 | .00422 | .00017 | .00027 | .00004 | .00001 | .178 |
| %RSD | 5.0266 | .14174 | 5.7473 | .88998 | 4.7741 | 92.568 | .52557 | 82.066 | 21.416 | 13.144 | 482.70 | .67436 | .33784 |
| #1 | .00849 | 51.919 | -.00394 | -.00626 | .00090 | -.00016 | 1.0510 | .00813 | -.00068 | .00186 | -.00004 | .00176 | 52.482 |
| #2 | .00791 | 51.816 | -.00363 | -.00634 | .00097 | -.00003 | 1.0589 | .00216 | -.00092 | .00225 | .00002 | .00178 | 52.734 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02594** | **.00846** | **-.01040** | **-.00020** | **-.00201** | **271.08** | **.00134** | **-.00747** | **.00111** | **5.4512** | **-.00130** | **.00178** | **.02231** |
| Stddev | .00930 | .00115 | .00039 | .00014 | .00022 | .12 | .00051 | .00053 | .00314 | .0290 | .00010 | .00026 | .00694 |
| %RSD | 35.846 | 13.541 | 3.7514 | 73.180 | 10.966 | .04302 | 38.539 | 7.0355 | 282.05 | .53247 | 7.4812 | 14.824 | 31.110 |
| #1 | -.03251 | .00765 | -.01067 | -.00009 | -.00216 | 270.99 | .00170 | -.00785 | -.00111 | 5.4306 | -.00124 | .00159 | .02722 |
| #2 | -.01936 | .00927 | -.01012 | -.00030 | -.00185 | 271.16 | .00097 | -.00710 | .00333 | 5.4717 | -.00137 | .00196 | .01741 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00022** | **5.3772** | **.00279** | **-.00309** | **10.490** | **-.00034** | **.00320** | **-.04002** |
| Stddev | .00068 | .00015 | .0041 | .00025 | .00043 | .037 | .00099 | .00021 | .00217 |
| %RSD | 355.23 | 67.097 | .07579 | 9.0849 | 13.967 | .34815 | 288.18 | 6.5863 | 5.4269 |
| #1 | .00068 | .00011 | 5.3800 | .00261 | -.00278 | 10.516 | .00036 | .00335 | -.03849 |
| #2 | -.00029 | .00032 | 5.3743 | .00297 | -.00339 | 10.465 | -.00105 | .00306 | -.04156 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5980.3** | **77012.** | **5435.5** |
| Stddev | 10.6 | 216. | 30.7 |
| %RSD | .17740 | .28061 | .56390 |
| #1 | 5972.8 | 76859. | 5413.8 |
| #2 | 5987.8 | 77164. | 5457.1 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 11:21:40 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53033** | **.51383** | **1.0485** | **.50328** | **.51197** | **.49296** | **-.00033** | **5.1302** | **.51621** | **.52109** | **.50731** | **.51070** |
| Stddev | .00141 | .00142 | .0006 | .00041 | .00096 | .00099 | .00049 | .0197 | .00067 | .00030 | .00014 | .00028 |
| %RSD | .26598 | .27558 | .05810 | .08241 | .18712 | .20022 | 148.13 | .38358 | .13057 | .05805 | .02726 | .05434 |
| #1 | .52933 | .51484 | 1.0489 | .50298 | .51129 | .49226 | .00002 | 5.1441 | .51574 | .52087 | .50741 | .51050 |
| #2 | .53132 | .51283 | 1.0480 | .50357 | .51265 | .49365 | -.00068 | 5.1163 | .51669 | .52130 | .50721 | .51089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4529** | **51.606** | **1.0427** | **21.676** | **.53311** | **.49863** | **5.2629** | **.51784** | **1.0146** | **1.0337** | **.01116** | **1.0264** |
| Stddev | .0062 | .184 | .0034 | .004 | .00122 | .00148 | .0273 | .00135 | .0002 | .0035 | .00041 | .0012 |
| %RSD | .25438 | .35620 | .32290 | .01753 | .22795 | .29645 | .51885 | .26155 | .02181 | .34202 | 3.6415 | .11483 |
| #1 | 2.4573 | 51.476 | 1.0403 | 21.674 | .53225 | .49758 | 5.2822 | .51688 | 1.0145 | 1.0312 | .01088 | 1.0255 |
| #2 | 2.4485 | 51.736 | 1.0451 | 21.679 | .53397 | .49968 | 5.2435 | .51880 | 1.0148 | 1.0362 | .01145 | 1.0272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0317** | **4.9708** | **1.0139** | **.49825** | **.00083** | **.51992** | **.99201** | **.04686** | **.51964** | F **.55749** | **.50671** |
| Stddev | .0024 | .0236 | .0022 | .00028 | .00001 | .00085 | .00050 | .00881 | .00118 | .00030 | .00168 |
| %RSD | .23562 | .47476 | .22067 | .05661 | 1.3481 | .16349 | .05068 | 18.808 | .22764 | .05308 | .33101 |
| #1 | 1.0300 | 4.9875 | 1.0123 | .49844 | .00082 | .51932 | .99166 | .05309 | .51880 | .55770 | .50553 |
| #2 | 1.0335 | 4.9541 | 1.0155 | .49805 | .00084 | .52052 | .99237 | .04063 | .52047 | .55728 | .50790 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6125.6** | **78966.** | **5492.2** |
| Stddev | 2.8 | 204. | 11.9 |
| %RSD | .04649 | .25828 | .21583 |
| #1 | 6127.6 | 78822. | 5500.6 |
| #2 | 6123.6 | 79110. | 5483.9 |

Sample Name: CCB Acquired: 5/15/2013 11:23:53 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.00208** | **-.00262** | F **-.00751** | W **.00080** | **-.00004** | **-.00028** | **-.00161** | **.00012** | **.00053** | **-.00011** |
| Stddev | .00021 | .00044 | .00111 | .00037 | .00015 | .00010 | .00136 | .00504 | .00010 | .00024 | .00002 |
| %RSD | 29.527 | 21.238 | 42.459 | 4.9324 | 18.371 | 265.28 | 493.12 | 313.35 | 85.692 | 44.972 | 16.571 |
| #1 | -.00088 | .00239 | -.00184 | -.00724 | .00090 | .00003 | -.00124 | -.00517 | .00018 | .00069 | -.00012 |
| #2 | -.00057 | .00177 | -.00341 | -.00777 | .00070 | -.00011 | .00069 | .00195 | .00005 | .00036 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00407** | **-.05251** | F **.00887** | **.00150** | **.00016** | **-.00008** | F **.20328** | **-.00005** | **-.00914** | **.00019** |
| Stddev | .00030 | .00059 | .02244 | .00040 | .00135 | .00000 | .00002 | .01500 | .00029 | .00111 | .00116 |
| %RSD | 117.04 | 14.483 | 42.729 | 4.5406 | 89.896 | 2.9898 | 20.279 | 7.3788 | 574.95 | 12.142 | 601.57 |
| #1 | .00004 | .00449 | -.06838 | .00858 | .00246 | .00016 | -.00009 | .21388 | -.00026 | -.00835 | -.00063 |
| #2 | .00047 | .00366 | -.03665 | .00915 | .00055 | .00016 | -.00006 | .19267 | .00015 | -.00992 | .00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | | |
| Low Limit | | | | -.00522 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00870** | **-.00094** | **.00044** | **.01084** | **-.00006** | **-.00002** | **.00039** | **-.00011** | **-.00059** | **.03795** | **-.00026** |
| Stddev | .00384 | .00126 | .00206 | .00978 | .00064 | .00003 | .00246 | .00029 | .00016 | .03247 | .00030 |
| %RSD | 44.061 | 134.65 | 465.13 | 90.179 | 1107.4 | 176.09 | 637.60 | 249.70 | 26.704 | 85.555 | 114.76 |
| #1 | .01142 | -.00183 | -.00101 | .01776 | -.00051 | .00000 | -.00135 | .00009 | -.00048 | .06091 | -.00005 |
| #2 | .00599 | -.00004 | .00190 | .00393 | .00039 | -.00004 | .00213 | -.00032 | -.00070 | .01499 | -.00047 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00305** | **-.00061** |
| Stddev | .00010 | .00115 |
| %RSD | 3.1930 | 187.25 |
| #1 | .00312 | .00020 |
| #2 | .00298 | -.00142 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6117.1** | **79320.** | **5444.0** |
| Stddev | 9.4 | 92. | 23.9 |
| %RSD | .15377 | .11599 | .43927 |
| #1 | 6110.5 | 79255. | 5460.9 |
| #2 | 6123.8 | 79385. | 5427.0 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 11:26:21 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01027** | **.10380** | **.01606** | **.09520** | **.01110** | **.00097** | **.11026** | **.21491** | **.00518** | **.01146** | **.01112** |
| Stddev | .00021 | .00044 | .00087 | .00105 | .00019 | .00008 | .00172 | .00402 | .00003 | .00014 | .00002 |
| %RSD | 2.0618 | .42630 | 5.4147 | 1.1017 | 1.7098 | 7.8096 | 1.5592 | 1.8719 | .50494 | 1.1997 | .19340 |
| #1 | .01012 | .10411 | .01667 | .09446 | .01096 | .00103 | .10904 | .21776 | .00516 | .01156 | .01111 |
| #2 | .01042 | .10349 | .01544 | .09594 | .01123 | .00092 | .11147 | .21207 | .00520 | .01136 | .01114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01579** | **.11260** | **3.2136** | F **.02010** | **.23008** | **.01130** | **.02009** | W **1.2318** | **.04343** | **3.1074** | **.00947** |
| Stddev | .00037 | .00005 | .0293 | .00098 | .00379 | .00010 | .00012 | .0033 | .00028 | .0020 | .00059 |
| %RSD | 2.3633 | .04038 | .91018 | 4.8589 | 1.6488 | .85863 | .60966 | .26574 | .64116 | .06448 | 6.2678 |
| #1 | .01552 | .11264 | 3.2343 | .01941 | .23276 | .01123 | .02000 | 1.2295 | .04363 | 3.1089 | .00989 |
| #2 | .01605 | .11257 | 3.1929 | .02079 | .22740 | .01136 | .02018 | 1.2341 | .04324 | 3.1060 | .00905 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00889** | **.00987** | **.01268** | **.51130** | **.10446** | **.01045** | **.01485** | **.01054** | **.01400** | F **.11257** | **.01039** |
| Stddev | .00007 | .00100 | .00024 | .00407 | .00069 | .00012 | .00051 | .00006 | .00139 | .01577 | .00056 |
| %RSD | .83992 | 10.153 | 1.8886 | .79644 | .66458 | 1.1376 | 3.4386 | .54630 | 9.9410 | 14.010 | 5.3640 |
| #1 | .00883 | .00916 | .01251 | .51418 | .10495 | .01036 | .01521 | .01058 | .01301 | .10141 | .01000 |
| #2 | .00894 | .01058 | .01285 | .50842 | .10397 | .01053 | .01449 | .01050 | .01498 | .12372 | .01078 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02595** | **.01545** |
| Stddev | .00023 | .00160 |
| %RSD | .88758 | 10.384 |
| #1 | .02611 | .01659 |
| #2 | .02578 | .01432 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6221.3** | **80199.** | **5544.8** |
| Stddev | 18.9 | 275. | 67.5 |
| %RSD | .30356 | .34287 | 1.2178 |
| #1 | 6207.9 | 80394. | 5497.1 |
| #2 | 6234.7 | 80005. | 5592.6 |

Sample Name: MB 280-173338/1-A Acquired: 5/15/2013 11:28:45 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: A4 Custom ID2: Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00080** | **.00600** | **-.00090** | W **-.00722** | **.00189** | **-.00005** | **-.00314** | **.03936** | **-.00008** |
| Stddev | .00014 | .00013 | .00363 | .00025 | .00008 | .00002 | .00114 | .00473 | .00000 |
| %RSD | 17.911 | 2.1774 | 401.90 | 3.4314 | 4.4934 | 43.869 | 36.252 | 12.013 | .68110 |
| #1 | -.00091 | .00591 | .00166 | -.00740 | .00183 | -.00004 | -.00234 | .04271 | -.00008 |
| #2 | -.00070 | .00610 | -.00347 | -.00705 | .00195 | -.00007 | -.00395 | .03602 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00002** | **.00195** | **.01285** | **-.03015** | W **.00549** | **.00674** | **.00021** | **-.00002** |
| Stddev | .00006 | .00001 | .00019 | .00271 | .04534 | .00031 | .00108 | .00006 | .00007 |
| %RSD | 41.823 | 32.979 | 9.8614 | 21.127 | 150.39 | 5.6431 | 15.987 | 28.087 | 364.05 |
| #1 | .00019 | -.00003 | .00209 | .01093 | .00191 | .00527 | .00598 | .00025 | -.00007 |
| #2 | .00010 | -.00002 | .00182 | .01477 | -.06221 | .00571 | .00750 | .00017 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00500 | | | |
| Low Limit | | | | | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40896** | **.00036** | F **.07939** | **.00074** | **.05430** | **-.00156** | **.00102** | **.03838** | **.00677** |
| Stddev | .00930 | .00016 | .00189 | .00002 | .00177 | .00137 | .00493 | .01086 | .00038 |
| %RSD | 2.2745 | 44.493 | 2.3772 | 2.6859 | 3.2541 | 88.014 | 482.00 | 28.292 | 5.5411 |
| #1 | .41554 | .00047 | .08073 | .00073 | .05555 | -.00059 | -.00246 | .03071 | .00704 |
| #2 | .40238 | .00025 | .07806 | .00075 | .05305 | -.00253 | .00451 | .04606 | .00651 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00099** | **.00014** | **-.00026** | **.03748** | **.00019** | **.00336** | **-.00240** |
| Stddev | .00002 | .00026 | .00011 | .00046 | .01634 | .00052 | .00044 | .00092 |
| %RSD | 14.977 | 26.235 | 77.142 | 179.47 | 43.598 | 276.97 | 12.981 | 38.492 |
| #1 | .00017 | .00117 | .00022 | -.00059 | .02593 | .00056 | .00305 | -.00305 |
| #2 | .00014 | .00081 | .00007 | .00007 | .04903 | -.00018 | .00367 | -.00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6248.5** | **80786.** | **5562.8** |
| Stddev | 7.0 | 200. | 12.9 |
| %RSD | .11237 | .24723 | .23230 |
| #1 | 6253.5 | 80645. | 5553.7 |
| #2 | 6243.6 | 80927. | 5572.0 |

Sample Name: LCS 280-173338/2-A Acquired: 5/15/2013 11:31:13 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: A4 Custom ID2: Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05607** | **1.9218** | **1.0605** | **1.0166** | **2.0877** | **.04949** | **2.0913** | **50.837** | **.10683** |
| Stddev | .00020 | .0041 | .0042 | .0004 | .0016 | .00016 | .0035 | .009 | .00012 |
| %RSD | .36103 | .21495 | .39192 | .03898 | .07471 | .31322 | .16629 | .01725 | .11364 |
| #1 | .05593 | 1.9189 | 1.0575 | 1.0163 | 2.0888 | .04938 | 2.0888 | 50.830 | .10691 |
| #2 | .05622 | 1.9247 | 1.0634 | 1.0168 | 2.0866 | .04960 | 2.0938 | 50.843 | .10674 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51642** | **.20429** | **.25726** | **.99451** | **52.740** | **1.0475** | **54.250** | **.52773** | **1.0006** |
| Stddev | .00091 | .00015 | .00081 | .00037 | .084 | .0001 | .004 | .00050 | .0001 |
| %RSD | .17659 | .07373 | .31439 | .03727 | .16009 | .01308 | .00766 | .09493 | .00476 |
| #1 | .51707 | .20440 | .25669 | .99477 | 52.800 | 1.0474 | 54.247 | .52738 | 1.0006 |
| #2 | .51578 | .20419 | .25783 | .99425 | 52.681 | 1.0476 | 54.253 | .52809 | 1.0007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.090** | **.51365** | **10.802** | **.51238** | **.04445** | **.51927** | **2.1015** | F **.66684** | **2.0202** |
| Stddev | .242 | .00080 | .013 | .00039 | .00185 | .00165 | .0065 | .00504 | .0040 |
| %RSD | .45606 | .15482 | .11973 | .07529 | 4.1537 | .31794 | .30692 | .75655 | .19977 |
| #1 | 53.261 | .51421 | 10.793 | .51210 | .04315 | .51810 | 2.1060 | .66327 | 2.0231 |
| #2 | 52.919 | .51308 | 10.811 | .51265 | .04576 | .52044 | 2.0969 | .67040 | 2.0174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 7.0000 | |
| Low Limit | | | | | | | | 1.0000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0088** | **1.0346** | **1.0324** | **1.9781** | **2.1296** | **.52255** | **.55418** | **.49184** |
| Stddev | .0039 | .0012 | .0001 | .0011 | .0032 | .00014 | .00004 | .00308 |
| %RSD | .38992 | .11103 | .00767 | .05666 | .15262 | .02659 | .00748 | .62565 |
| #1 | 1.0116 | 1.0338 | 1.0324 | 1.9789 | 2.1273 | .52245 | .55415 | .49402 |
| #2 | 1.0060 | 1.0354 | 1.0325 | 1.9773 | 2.1319 | .52265 | .55421 | .48967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6028.1** | **78609.** | **5479.3** |
| Stddev | .1 | 210. | 3.8 |
| %RSD | .00221 | .26725 | .06956 |
| #1 | 6028.0 | 78460. | 5482.0 |
| #2 | 6028.2 | 78757. | 5476.6 |

Sample Name: 280-41943-A-10-A  Acquired: 5/15/2013 11:33:25  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: A4  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00043** | **94.758** | **.03045** | **.01256** | **.57621** | **.00430** | **-.00837** | **26.099** | **.00093** |
| Stddev | .00007 | .437 | .00119 | .00001 | .00239 | .00003 | .00062 | .127 | .00003 |
| %RSD | 16.722 | .46087 | 3.9062 | .08264 | .41498 | .69871 | 7.3711 | .48578 | 3.5738 |
| #1 | -.00048 | 95.067 | .03129 | .01257 | .57790 | .00432 | -.00881 | 26.188 | .00091 |
| #2 | -.00038 | 94.450 | .02961 | .01255 | .57452 | .00428 | -.00794 | 26.009 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03829** | **.18420** | **.09790** | **114.76** | **4.0718** | **.10341** | **22.103** | **.62223** | **.00046** |
| Stddev | .00020 | .00018 | .00008 | .28 | .0703 | .00199 | .057 | .00107 | .00019 |
| %RSD | .52554 | .09656 | .08301 | .24668 | 1.7262 | 1.9214 | .25825 | .17132 | 41.846 |
| #1 | .03815 | .18407 | .09785 | 114.96 | 4.1215 | .10481 | 22.144 | .62299 | .00033 |
| #2 | .03844 | .18432 | .09796 | 114.56 | 4.0221 | .10200 | 22.063 | .62148 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0339** | **.11491** | **3.8133** | **.06100** | **.27618** | **-.00289** | **-.00033** | **1.9248** | **.00742** |
| Stddev | .0162 | .00029 | .0013 | .00164 | .00294 | .00078 | .00247 | .0135 | .00052 |
| %RSD | 1.5648 | .25091 | .03426 | 2.6854 | 1.0660 | 26.934 | 747.82 | .70150 | 6.9472 |
| #1 | 1.0453 | .11471 | 3.8142 | .06216 | .27410 | -.00344 | -.00207 | 1.9344 | .00778 |
| #2 | 1.0225 | .11511 | 3.8124 | .05984 | .27826 | -.00234 | .00141 | 1.9153 | .00705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14745** | **.06935** | **2.3510** | **-.00356** | F **-.11571** | **.29771** | **.27842** | **.16647** |
| Stddev | .00096 | .00080 | .0030 | .00146 | .01044 | .00036 | .00012 | .00114 |
| %RSD | .65330 | 1.1526 | .12655 | 40.940 | 9.0204 | .12131 | .04299 | .68278 |
| #1 | .14813 | .06878 | 2.3531 | -.00253 | -.10833 | .29745 | .27851 | .16566 |
| #2 | .14677 | .06991 | 2.3489 | -.00460 | -.12309 | .29796 | .27834 | .16727 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6760.4** | **86420.** | **6131.6** |
| Stddev | 4.4 | 25. | 33.9 |
| %RSD | .06537 | .02838 | .55331 |
| #1 | 6763.6 | 86437. | 6107.7 |
| #2 | 6757.3 | 86402. | 6155.6 |

Sample Name: sd 41943-A-10-A@5 Acquired: 5/15/2013 11:35:44 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: A4 Custom ID2: Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **20.955** | **.00535** | **-.00267** | **.12721** | **.00090** | **-.00550** | **5.7750** | **.00014** |
| Stddev | .00003 | .083 | .00070 | .00066 | .00047 | .00009 | .00048 | .0080 | .00016 |
| %RSD | 9.5810 | .39396 | 13.112 | 24.635 | .37085 | 9.9114 | 8.7658 | .13775 | 119.60 |
| #1 | -.00032 | 20.897 | .00485 | -.00221 | .12687 | .00096 | -.00584 | 5.7694 | .00025 |
| #2 | -.00028 | 21.013 | .00585 | -.00314 | .12754 | .00083 | -.00516 | 5.7807 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00863** | **.04019** | **.02132** | **23.987** | **.83837** | **.02923** | **4.8420** | **.13641** | **-.00001** |
| Stddev | .00027 | .00010 | .00009 | .011 | .00329 | .00108 | .0022 | .00027 | .00005 |
| %RSD | 3.1633 | .23859 | .43664 | .04419 | .39223 | 3.7103 | .04488 | .20040 | 623.74 |
| #1 | .00883 | .04026 | .02126 | 23.980 | .84070 | .02847 | 4.8405 | .13661 | .00003 |
| #2 | .00844 | .04012 | .02139 | 23.995 | .83605 | .03000 | 4.8435 | .13622 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34070** | **.02506** | **.81090** | **.01387** | **.06216** | **-.00101** | **.00017** | **.48067** | **.00087** |
| Stddev | .00204 | .00011 | .00014 | .00068 | .00193 | .00100 | .00025 | .00579 | .00019 |
| %RSD | .59808 | .41908 | .01762 | 4.8674 | 3.1067 | 98.800 | 147.54 | 1.2037 | 21.537 |
| #1 | .33926 | .02513 | .81100 | .01339 | .06080 | -.00030 | -.00001 | .48476 | .00074 |
| #2 | .34214 | .02498 | .81080 | .01435 | .06353 | -.00172 | .00034 | .47658 | .00101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03270** | **.01372** | **.50705** | **-.00138** | **-.01638** | **.06473** | **.06421** | **.03710** |
| Stddev | .00006 | .00058 | .00076 | .00102 | .03024 | .00007 | .00063 | .00196 |
| %RSD | .18926 | 4.2288 | .14917 | 74.347 | 184.62 | .10350 | .97665 | 5.2790 |
| #1 | .03274 | .01413 | .50759 | -.00210 | -.03777 | .06468 | .06465 | .03849 |
| #2 | .03266 | .01331 | .50652 | -.00065 | .00500 | .06478 | .06376 | .03572 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6295.8** | **80479.** | **5593.2** |
| Stddev | 1.2 | 52. | 22.8 |
| %RSD | .01862 | .06497 | .40809 |
| #1 | 6295.0 | 80516. | 5577.1 |
| #2 | 6296.6 | 80442. | 5609.3 |

Sample Name: 280-41943-A-10-B MS  Acquired: 5/15/2013 11:38:06  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: A4  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05273** | **156.27** | **.96394** | **.93749** | **2.6760** | **.04822** | **1.8755** | **75.293** | **.09665** |
| Stddev | .00034 | .12 | .00068 | .00050 | .0034 | .00011 | .0042 | .041 | .00016 |
| %RSD | .64819 | .07823 | .07020 | .05324 | .12729 | .22585 | .22424 | .05477 | .16982 |
| #1 | .05297 | 156.19 | .96441 | .93713 | 2.6784 | .04829 | 1.8725 | 75.322 | .09676 |
| #2 | .05249 | 156.36 | .96346 | .93784 | 2.6736 | .04814 | 1.8785 | 75.264 | .09653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50129** | **.40051** | **.33370** | **124.38** | **59.057** | **1.0833** | **76.935** | **1.2131** | **.86913** |
| Stddev | .00032 | .00020 | .00007 | .15 | .025 | .0019 | .110 | .0023 | .00070 |
| %RSD | .06348 | .04947 | .02024 | .12280 | .04252 | .17044 | .14255 | .19003 | .08074 |
| #1 | .50106 | .40037 | .33365 | 124.49 | 59.075 | 1.0820 | 76.857 | 1.2114 | .86863 |
| #2 | .50151 | .40065 | .33375 | 124.27 | 59.040 | 1.0846 | 77.012 | 1.2147 | .86963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.951** | **.57683** | **13.209** | **.51507** | **.30568** | **.25111** | **1.8578** | **3.2712** | **1.7560** |
| Stddev | .368 | .00016 | .012 | .00055 | .00019 | .00243 | .0067 | .0174 | .0001 |
| %RSD | .75224 | .02718 | .08807 | .10680 | .06351 | .96686 | .35839 | .53218 | .00575 |
| #1 | 48.691 | .57672 | 13.201 | .51468 | .30581 | .25283 | 1.8625 | 3.2835 | 1.7561 |
| #2 | 49.212 | .57694 | 13.217 | .51546 | .30554 | .24939 | 1.8531 | 3.2589 | 1.7560 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1195** | **1.0154** | **5.3541** | **1.7095** | **1.8406** | **.86626** | **.80261** | **.69398** |
| Stddev | .0035 | .0006 | .0018 | .0036 | .0165 | .00276 | .00284 | .00307 |
| %RSD | .30952 | .05511 | .03406 | .21254 | .89683 | .31876 | .35397 | .44195 |
| #1 | 1.1219 | 1.0150 | 5.3528 | 1.7120 | 1.8289 | .86431 | .80060 | .69615 |
| #2 | 1.1170 | 1.0158 | 5.3554 | 1.7069 | 1.8522 | .86822 | .80462 | .69181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6523.4** | **83221.** | **5948.6** |
| Stddev | 3.5 | 105. | 21.2 |
| %RSD | .05349 | .12667 | .35661 |
| #1 | 6525.8 | 83295. | 5933.7 |
| #2 | 6520.9 | 83146. | 5963.6 |

Sample Name: 280-41943-A-10-C MSD  Acquired: 5/15/2013 11:40:18  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: A4  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05215** | **158.92** | **.95251** | **.92227** | **2.7191** | **.04811** | **1.8550** | **87.252** | **.09593** |
| Stddev | .00029 | .22 | .00426 | .00152 | .0002 | .00007 | .0085 | .055 | .00030 |
| %RSD | .55735 | .13606 | .44763 | .16511 | .00734 | .15110 | .45837 | .06356 | .31173 |
| #1 | .05194 | 158.76 | .95552 | .92119 | 2.7193 | .04816 | 1.8490 | 87.213 | .09572 |
| #2 | .05235 | 159.07 | .94949 | .92335 | 2.7190 | .04806 | 1.8610 | 87.292 | .09614 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49868** | **.42757** | **.33893** | **134.71** | **58.944** | **1.0786** | **77.543** | **1.3755** | **.85502** |
| Stddev | .00004 | .00017 | .00103 | .17 | .040 | .0023 | .148 | .0014 | .00040 |
| %RSD | .00828 | .04022 | .30347 | .12309 | .06722 | .21488 | .19066 | .10251 | .04716 |
| #1 | .49865 | .42745 | .33965 | 134.59 | 58.916 | 1.0802 | 77.647 | 1.3765 | .85474 |
| #2 | .49871 | .42770 | .33820 | 134.83 | 58.973 | 1.0769 | 77.438 | 1.3745 | .85531 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.552** | **.58283** | **13.256** | **.51076** | **.30289** | **.24187** | **1.8289** | **3.6063** | **1.7296** |
| Stddev | .039 | .00047 | .013 | .00022 | .00305 | .00170 | .0001 | .0420 | .0045 |
| %RSD | .07948 | .08116 | .09561 | .04352 | 1.0060 | .70464 | .00250 | 1.1656 | .25766 |
| #1 | 48.525 | .58249 | 13.247 | .51061 | .30073 | .24066 | 1.8289 | 3.5766 | 1.7264 |
| #2 | 48.579 | .58316 | 13.265 | .51092 | .30504 | .24307 | 1.8289 | 3.6360 | 1.7327 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1259** | **1.0088** | **5.2283** | **1.6799** | **1.7896** | **.88921** | **.81811** | **.68771** |
| Stddev | .0016 | .0035 | .0063 | .0048 | .0131 | .00189 | .00027 | .00003 |
| %RSD | .14331 | .34482 | .12131 | .28609 | .73428 | .21202 | .03322 | .00411 |
| #1 | 1.1271 | 1.0063 | 5.2328 | 1.6765 | 1.7803 | .89055 | .81792 | .68769 |
| #2 | 1.1248 | 1.0113 | 5.2238 | 1.6833 | 1.7989 | .88788 | .81830 | .68773 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6536.7** | **83343.** | **5952.8** |
| Stddev | 18.1 | 177. | 6.7 |
| %RSD | .27743 | .21216 | .11296 |
| #1 | 6523.9 | 83218. | 5957.5 |
| #2 | 6549.5 | 83468. | 5948.0 |

Sample Name: pds 280-41943-A-10-A  Acquired: 5/15/2013 11:42:30  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: A4  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05124** | **98.948** | **.22103** | **.11145** | **.69995** | **.04987** | **-.00619** | **46.177** | **.05021** |
| Stddev | .00003 | .236 | .00011 | .00041 | .00106 | .00003 | .00162 | .117 | .00018 |
| %RSD | .06618 | .23861 | .04837 | .36487 | .15208 | .05517 | 26.215 | .25309 | .36385 |
| #1 | .05127 | 99.115 | .22110 | .11174 | .70071 | .04985 | -.00734 | 46.259 | .05008 |
| #2 | .05122 | 98.781 | .22095 | .11116 | .69920 | .04988 | -.00504 | 46.094 | .05034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08682** | **.23577** | **.14949** | **116.75** | **24.278** | **.20507** | **42.561** | **.67996** | **.04762** |
| Stddev | .00051 | .00020 | .00056 | .13 | .091 | .00202 | .053 | .00077 | .00009 |
| %RSD | .59229 | .08344 | .37166 | .11549 | .37296 | .98530 | .12490 | .11285 | .19629 |
| #1 | .08646 | .23591 | .14988 | 116.65 | 24.342 | .20649 | 42.599 | .68050 | .04755 |
| #2 | .08718 | .23563 | .14910 | 116.84 | 24.214 | .20364 | 42.523 | .67942 | .04768 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.011** | **.16388** | **5.8647** | **.15517** | **.28482** | **.09444** | **.19137** | **7.0113** | **.10227** |
| Stddev | .368 | .00014 | .0077 | .00063 | .00084 | .00217 | .00030 | .0656 | .00115 |
| %RSD | 1.7510 | .08572 | .13197 | .40881 | .29470 | 2.2965 | .15559 | .93511 | 1.1285 |
| #1 | 20.750 | .16398 | 5.8592 | .15561 | .28542 | .09597 | .19116 | 7.0576 | .10145 |
| #2 | 21.271 | .16378 | 5.8702 | .15472 | .28423 | .09291 | .19158 | 6.9649 | .10308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20133** | **.26802** | **2.4547** | **.18143** | **.41752** | **.35096** | **.48973** | **.21927** |
| Stddev | .00082 | .00079 | .0005 | .00014 | .00739 | .00060 | .00015 | .00101 |
| %RSD | .40636 | .29638 | .02125 | .07785 | 1.7696 | .17179 | .03014 | .46050 |
| #1 | .20191 | .26858 | 2.4551 | .18133 | .42274 | .35139 | .48983 | .21998 |
| #2 | .20075 | .26746 | 2.4543 | .18153 | .41230 | .35054 | .48962 | .21856 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6567.9** | **84557.** | **5975.3** |
| Stddev | .3 | 49. | 30.7 |
| %RSD | .00396 | .05792 | .51401 |
| #1 | 6567.7 | 84592. | 5953.6 |
| #2 | 6568.0 | 84522. | 5997.1 |

Sample Name: 280-41943-A-11-A  Acquired: 5/15/2013 11:44:47  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: A4  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **105.25** | **.03227** | **.01294** | **2.3387** | **.00395** | **-.00276** | **51.126** | **.00130** |
| Stddev | .00003 | .45 | .00115 | .00032 | .0117 | .00014 | .00015 | .213 | .00022 |
| %RSD | 10.548 | .42950 | 3.5647 | 2.5113 | .49933 | 3.6368 | 5.5349 | .41752 | 16.956 |
| #1 | .00029 | 105.57 | .03146 | .01317 | 2.3470 | .00385 | -.00265 | 51.277 | .00146 |
| #2 | .00025 | 104.93 | .03309 | .01271 | 2.3304 | .00405 | -.00287 | 50.975 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06039** | **.18103** | **.09943** | **126.97** | **5.3477** | **.11629** | **21.997** | **8.1241** | **.00307** |
| Stddev | .00030 | .00013 | .00033 | .59 | .1111 | .00281 | .039 | .0321 | .00002 |
| %RSD | .50461 | .07075 | .33601 | .46109 | 2.0770 | 2.4136 | .17919 | .39453 | .61165 |
| #1 | .06061 | .18112 | .09967 | 126.55 | 5.4262 | .11828 | 22.025 | 8.1467 | .00305 |
| #2 | .06017 | .18094 | .09920 | 127.38 | 5.2691 | .11431 | 21.969 | 8.1014 | .00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7790** | **.23769** | **4.3314** | **.05724** | **.94904** | **-.00202** | **.00111** | **2.0085** | **.00765** |
| Stddev | .0174 | .00071 | .0031 | .00031 | .00315 | .00193 | .00157 | .0264 | .00104 |
| %RSD | .62568 | .29780 | .07121 | .54254 | .33177 | 95.522 | 141.35 | 1.3122 | 13.626 |
| #1 | 2.7913 | .23719 | 4.3292 | .05702 | .95127 | -.00066 | .00000 | 2.0271 | .00839 |
| #2 | 2.7667 | .23819 | 4.3336 | .05746 | .94681 | -.00339 | .00221 | 1.9899 | .00692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23968** | **.09226** | **2.8458** | **-.00989** | W **-.06421** | **.30729** | **.32658** | **.17378** |
| Stddev | .00178 | .00247 | .0006 | .00208 | .04989 | .00027 | .00037 | .00150 |
| %RSD | .74162 | 2.6801 | .02253 | 21.067 | 77.691 | .08907 | .11240 | .86233 |
| #1 | .24093 | .09051 | 2.8454 | -.01136 | -.02894 | .30749 | .32684 | .17484 |
| #2 | .23842 | .09401 | 2.8463 | -.00842 | -.09949 | .30710 | .32632 | .17272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6630.9** | **84517.** | **6060.3** |
| Stddev | 4.0 | 360. | 29.9 |
| %RSD | .05972 | .42580 | .49365 |
| #1 | 6633.7 | 84263. | 6039.2 |
| #2 | 6628.1 | 84772. | 6081.5 |

Sample Name: 280-41943-A-17-A  Acquired: 5/15/2013 11:47:13  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: A4  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00078** | **113.17** | **.04029** | **.02055** | **1.5981** | **.00490** | **-.00444** | **28.056** | **.00215** |
| Stddev | .00018 | .26 | .00022 | .00008 | .0007 | .00005 | .00106 | .064 | .00009 |
| %RSD | 22.940 | .22786 | .54078 | .38623 | .04408 | .99760 | 23.863 | .22769 | 4.1579 |
| #1 | -.00091 | 112.98 | .04044 | .02061 | 1.5976 | .00494 | -.00369 | 28.011 | .00221 |
| #2 | -.00065 | 113.35 | .04013 | .02050 | 1.5986 | .00487 | -.00519 | 28.101 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08032** | **.17320** | **.13303** | **143.55** | **8.9618** | **.09040** | **25.690** | **3.0685** | **.00282** |
| Stddev | .00009 | .00013 | .00015 | .25 | .0113 | .00161 | .037 | .0047 | .00017 |
| %RSD | .11800 | .07567 | .11381 | .17483 | .12645 | 1.7785 | .14216 | .15385 | 5.9744 |
| #1 | .08025 | .17311 | .13293 | 143.37 | 8.9538 | .08926 | 25.664 | 3.0652 | .00294 |
| #2 | .08039 | .17329 | .13314 | 143.73 | 8.9698 | .09154 | 25.716 | 3.0719 | .00270 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1234** | **.17251** | **4.1378** | **.10257** | **.53458** | **-.00178** | **-.00105** | **2.3260** | **.00845** |
| Stddev | .0124 | .00023 | .0132 | .00053 | .00036 | .00016 | .00290 | .0069 | .00007 |
| %RSD | .58403 | .13082 | .31855 | .51478 | .06706 | 8.8781 | 276.03 | .29657 | .81426 |
| #1 | 2.1322 | .17235 | 4.1471 | .10294 | .53483 | -.00167 | .00100 | 2.3211 | .00840 |
| #2 | 2.1146 | .17267 | 4.1285 | .10219 | .53432 | -.00190 | -.00310 | 2.3309 | .00850 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20843** | **.08787** | **2.3626** | **-.00421** | W **-.09662** | **.30502** | **.47554** | **.13934** |
| Stddev | .00032 | .00147 | .0025 | .00091 | .00635 | .00080 | .00165 | .00243 |
| %RSD | .15545 | 1.6685 | .10582 | 21.655 | 6.5681 | .26202 | .34773 | 1.7406 |
| #1 | .20866 | .08891 | 2.3608 | -.00357 | -.09213 | .30445 | .47437 | .14106 |
| #2 | .20820 | .08684 | 2.3643 | -.00486 | -.10111 | .30558 | .47671 | .13763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6735.6** | **85958.** | **6110.5** |
| Stddev | .8 | 282. | 13.8 |
| %RSD | .01116 | .32847 | .22531 |
| #1 | 6735.0 | 86157. | 6120.3 |
| #2 | 6736.1 | 85758. | 6100.8 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 11:49:31 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00826** | **51.129** | **-.00411** | **-.00531** | **.00100** | **-.00009** | **1.0492** | **.00357** | **-.00089** | **.00230** | **-.00028** | **.00138** | **50.892** |
| Stddev | .00026 | .119 | .00082 | .00010 | .00015 | .00004 | .0022 | .00069 | .00011 | .00020 | .00006 | .00018 | .059 |
| %RSD | 3.1448 | .23201 | 19.980 | 1.9704 | 15.390 | 49.387 | .20450 | 19.302 | 11.913 | 8.5552 | 22.502 | 13.273 | .11613 |
| #1 | .00807 | 51.045 | -.00469 | -.00524 | .00089 | -.00012 | 1.0477 | .00308 | -.00097 | .00244 | -.00024 | .00151 | 50.851 |
| #2 | .00844 | 51.213 | -.00353 | -.00539 | .00111 | -.00006 | 1.0507 | .00406 | -.00082 | .00216 | -.00033 | .00125 | 50.934 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05232** | **.00597** | **-.01032** | **-.00063** | **-.00217** | **265.48** | **.00092** | **-.00636** | **.00058** | **5.4044** | **-.00152** | **.00504** | **.01722** |
| Stddev | .02029 | .00201 | .00114 | .00001 | .00002 | .24 | .00007 | .00213 | .00205 | .0098 | .00105 | .00206 | .00211 |
| %RSD | 38.780 | 33.681 | 11.041 | 1.9943 | .96407 | .09092 | 7.4428 | 33.447 | 354.71 | .18219 | 69.020 | 40.897 | 12.235 |
| #1 | -.03797 | .00455 | -.01113 | -.00064 | -.00215 | 265.65 | .00087 | -.00787 | -.00087 | 5.3974 | -.00226 | .00650 | .01573 |
| #2 | -.06666 | .00739 | -.00952 | -.00062 | -.00218 | 265.31 | .00097 | -.00486 | .00202 | 5.4114 | -.00078 | .00358 | .01871 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00029** | **5.3485** | **.00262** | **-.00219** | **10.510** | **-.00040** | **.00306** | **-.04239** |
| Stddev | .00004 | .00001 | .0022 | .00000 | .00153 | .015 | .00013 | .00004 | .00151 |
| %RSD | 8.7171 | 4.5190 | .04084 | .17846 | 69.710 | .13849 | 31.414 | 1.3338 | 3.5704 |
| #1 | .00054 | .00028 | 5.3501 | .00262 | -.00111 | 10.500 | -.00049 | .00309 | -.04346 |
| #2 | .00048 | .00029 | 5.3470 | .00261 | -.00327 | 10.520 | -.00031 | .00304 | -.04132 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5918.5** | **76787.** | **5431.6** |
| Stddev | 2.6 | 72. | 1.8 |
| %RSD | .04353 | .09393 | .03307 |
| #1 | 5916.7 | 76736. | 5432.9 |
| #2 | 5920.4 | 76838. | 5430.3 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 11:51:54 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.55457** | **.52283** | **1.0643** | **.51843** | **.54135** | **.49979** | **-.00044** | **5.3811** | **.53332** | **.53700** | **.52082** | **.52448** |
| Stddev | .00009 | .00063 | .0003 | .00041 | .00004 | .00030 | .00027 | .0155 | .00073 | .00079 | .00068 | .00043 |
| %RSD | .01670 | .12086 | .02965 | .07958 | .00674 | .06038 | 61.453 | .28781 | .13625 | .14650 | .13087 | .08205 |
| #1 | .55451 | .52238 | 1.0645 | .51872 | .54133 | .49958 | -.00063 | 5.3701 | .53383 | .53756 | .52131 | .52478 |
| #2 | .55464 | .52328 | 1.0641 | .51813 | .54138 | .50001 | -.00025 | 5.3920 | .53280 | .53645 | .52034 | .52417 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .50000 | | | | | | | | | | | |
| Range | 10.000% | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5641** | **54.466** | **1.0909** | F **22.093** | **.54803** | **.51454** | F **5.6646** | **.53243** | **1.0382** | **1.0610** | **.02211** | **1.0670** |
| Stddev | .0015 | .072 | .0018 | .041 | .00020 | .00190 | .0230 | .00296 | .0098 | .0046 | .00258 | .0021 |
| %RSD | .05904 | .13241 | .16031 | .18583 | .03627 | .36972 | .40629 | .55632 | .94859 | .43076 | 11.662 | .19559 |
| #1 | 2.5651 | 54.415 | 1.0921 | 22.122 | .54789 | .51589 | 5.6809 | .53452 | 1.0452 | 1.0642 | .02394 | 1.0685 |
| #2 | 2.5630 | 54.517 | 1.0896 | 22.064 | .54818 | .51320 | 5.6483 | .53033 | 1.0313 | 1.0578 | .02029 | 1.0655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | 20.000 | | | 5.0000 | | | | | |
| Range | | | | 10.000% | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0533** | **5.1814** | **1.0356** | **.51776** | **.00183** | **.53383** | **1.0256** | **.02058** | **.53016** | F **.58130** | **.51530** |
| Stddev | .0021 | .0150 | .0026 | .00019 | .00168 | .00025 | .0001 | .02807 | .00052 | .00082 | .00085 |
| %RSD | .20118 | .28938 | .25140 | .03661 | 92.027 | .04664 | .01442 | 136.40 | .09781 | .14045 | .16453 |
| #1 | 1.0548 | 5.1708 | 1.0375 | .51762 | .00301 | .53366 | 1.0257 | .00073 | .53053 | .58072 | .51470 |
| #2 | 1.0518 | 5.1920 | 1.0338 | .51789 | .00064 | .53401 | 1.0255 | .04042 | .52979 | .58188 | .51590 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6018.5** | **77875.** | **5383.9** |
| Stddev | 18.4 | 106. | 17.9 |
| %RSD | .30614 | .13651 | .33291 |
| #1 | 6005.5 | 77800. | 5396.5 |
| #2 | 6031.5 | 77950. | 5371.2 |

Sample Name: CCB Acquired: 5/15/2013 11:54:08 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00062** | **.00130** | **-.00230** | F **-.00673** | **.00058** | **-.00005** | **-.00287** | **-.00283** | **-.00009** | **.00026** | **.00008** |
| Stddev | .00012 | .00042 | .00049 | .00035 | .00053 | .00007 | .00197 | .00277 | .00003 | .00011 | .00010 |
| %RSD | 19.250 | 32.104 | 21.210 | 5.1564 | 92.057 | 137.50 | 68.717 | 97.689 | 34.862 | 41.270 | 132.08 |
| #1 | -.00070 | .00101 | -.00196 | -.00649 | .00020 | -.00010 | -.00426 | -.00088 | -.00012 | .00019 | .00015 |
| #2 | -.00053 | .00160 | -.00265 | -.00698 | .00095 | -.00000 | -.00148 | -.00479 | -.00007 | .00034 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00864** | **-.06435** | F **.00748** | **-.00124** | **.00002** | **.00000** | F **.12038** | **-.00023** | F **-.01076** | **.00032** |
| Stddev | .00027 | .00160 | .00077 | .00045 | .00078 | .00001 | .00021 | .01876 | .00024 | .00123 | .00070 |
| %RSD | 362.53 | 18.580 | 1.2026 | 6.0194 | 62.884 | 33.416 | 10125. | 15.586 | 101.90 | 11.466 | 221.29 |
| #1 | -.00012 | .00977 | -.06380 | .00716 | -.00179 | .00003 | -.00015 | .13365 | -.00040 | -.00989 | -.00018 |
| #2 | .00027 | .00750 | -.06490 | .00779 | -.00069 | .00002 | .00015 | .10712 | -.00006 | -.01164 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | .01000 | |
| Low Limit | | | | -.00522 | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00574** | **-.00128** | **-.00107** | **.01299** | **-.00038** | **-.00011** | **-.00150** | **-.00029** | **-.00064** | F **.06390** | **-.00002** |
| Stddev | .00170 | .00078 | .00062 | .00957 | .00042 | .00017 | .00189 | .00000 | .00056 | .04586 | .00063 |
| %RSD | 29.574 | 60.451 | 58.058 | 73.633 | 111.74 | 163.53 | 125.82 | .48894 | 87.927 | 71.759 | 2767.7 |
| #1 | .00454 | -.00073 | -.00063 | .01976 | -.00067 | .00002 | -.00017 | -.00029 | -.00104 | .03148 | .00042 |
| #2 | .00694 | -.00183 | -.00151 | .00623 | -.00008 | -.00023 | -.00283 | -.00029 | -.00024 | .09633 | -.00047 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | | .05000 | |
| Low Limit | | | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.00651** | **.00082** |
| Stddev | .00043 | .00371 |
| %RSD | 6.6328 | 452.95 |
| #1 | .00620 | .00344 |
| #2 | .00681 | -.00180 |
| Check ? | Chk Warn | Chk Pass |
| High Limit | .00453 | |
| Low Limit | -.00453 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6051.8** | **78271.** | **5413.1** |
| Stddev | 3.0 | 555. | 50.8 |
| %RSD | .05014 | .70881 | .93840 |
| #1 | 6049.7 | 77878. | 5377.2 |
| #2 | 6054.0 | 78663. | 5449.0 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 11:56:36 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01104** | **.10820** | **.01420** | **.09530** | **.01174** | **.00098** | **.10975** | **.23369** | **.00543** | **.01158** | **.01063** |
| Stddev | .00070 | .00068 | .00108 | .00012 | .00066 | .00001 | .00335 | .00319 | .00010 | .00000 | .00003 |
| %RSD | 6.3101 | .63211 | 7.6155 | .12438 | 5.5875 | 1.1287 | 3.0485 | 1.3637 | 1.8252 | .02075 | .25458 |
| #1 | .01154 | .10869 | .01344 | .09538 | .01221 | .00098 | .10738 | .23144 | .00550 | .01158 | .01065 |
| #2 | .01055 | .10772 | .01497 | .09522 | .01128 | .00099 | .11212 | .23594 | .00536 | .01158 | .01061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01589** | W **.12734** | **3.3218** | F **.01862** | **.23207** | **.01165** | **.02041** | W **1.2268** | **.04371** | **3.1023** | **.00996** |
| Stddev | .00010 | .00167 | .0180 | .00112 | .00039 | .00007 | .00020 | .0065 | .00019 | .0014 | .00042 |
| %RSD | .63994 | 1.3148 | .54049 | 6.0043 | .16827 | .62110 | .97986 | .52632 | .44429 | .04385 | 4.2084 |
| #1 | .01582 | .12615 | 3.3091 | .01941 | .23234 | .01170 | .02027 | 1.2222 | .04385 | 3.1032 | .01026 |
| #2 | .01596 | .12852 | 3.3345 | .01783 | .23179 | .01160 | .02056 | 1.2314 | .04358 | 3.1013 | .00967 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | | | | 1.0000 | | | |
| Range | | 20.000% | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00793** | **.00998** | **.01321** | **.53949** | **.10502** | **.01055** | **.01737** | **.01086** | **.01552** | F **.09510** | **.01027** |
| Stddev | .00037 | .00052 | .00187 | .00697 | .00006 | .00013 | .00194 | .00031 | .00083 | .02817 | .00048 |
| %RSD | 4.7093 | 5.2080 | 14.152 | 1.2925 | .05789 | 1.2664 | 11.192 | 2.8247 | 5.3343 | 29.624 | 4.6992 |
| #1 | .00819 | .00961 | .01189 | .54442 | .10497 | .01065 | .01875 | .01064 | .01493 | .07518 | .00993 |
| #2 | .00767 | .01035 | .01454 | .53455 | .10506 | .01046 | .01600 | .01107 | .01610 | .11503 | .01061 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02940** | **.01581** |
| Stddev | .00076 | .00112 |
| %RSD | 2.5943 | 7.0810 |
| #1 | .02886 | .01502 |
| #2 | .02994 | .01661 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6183.9** | **79656.** | **5488.9** |
| Stddev | 31.7 | 260. | 70.9 |
| %RSD | .51206 | .32682 | 1.2924 |
| #1 | 6161.5 | 79472. | 5539.0 |
| #2 | 6206.3 | 79840. | 5438.7 |

Sample Name: MB 280-173462/1-A Acquired: 5/15/2013 11:59:01 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00042** | **.00821** | **-.00034** | W **-.00538** | **.00052** | **.00000** | **-.00244** | **.01753** | **.00008** |
| Stddev | .00050 | .00008 | .00083 | .00019 | .00049 | .00006 | .00051 | .00336 | .00018 |
| %RSD | 117.70 | .93951 | 246.80 | 3.5390 | 94.003 | 2049.5 | 21.002 | 19.143 | 235.63 |
| #1 | -.00078 | .00826 | .00025 | -.00525 | .00017 | .00004 | -.00208 | .01516 | -.00005 |
| #2 | -.00007 | .00815 | -.00092 | -.00552 | .00087 | -.00004 | -.00280 | .01991 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **-.00003** | **.00016** | **.01745** | **-.08948** | W **.00692** | **.00320** | **.00009** | **-.00025** |
| Stddev | .00022 | .00007 | .00016 | .00027 | .04918 | .00064 | .00140 | .00008 | .00008 |
| %RSD | 49.558 | 234.68 | 97.967 | 1.5325 | 54.960 | 9.3239 | 43.631 | 85.344 | 32.435 |
| #1 | .00060 | -.00008 | .00005 | .01726 | -.05470 | .00737 | .00418 | .00004 | -.00031 |
| #2 | .00029 | .00002 | .00028 | .01764 | -.12425 | .00646 | .00221 | .00014 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00500 | | | |
| Low Limit | | | | | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11745** | **-.00008** | F **.18495** | **.00210** | **.00975** | **-.00138** | **-.00021** | **.02551** | **-.00074** |
| Stddev | .01669 | .00022 | .00463 | .00094 | .00048 | .00194 | .00253 | .00526 | .00059 |
| %RSD | 14.208 | 282.22 | 2.5052 | 44.905 | 4.9609 | 139.88 | 1227.3 | 20.596 | 79.860 |
| #1 | .12925 | -.00023 | .18823 | .00276 | .00941 | -.00002 | -.00199 | .02180 | -.00032 |
| #2 | .10565 | .00008 | .18168 | .00143 | .01009 | -.00275 | .00158 | .02923 | -.00116 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **-.00003** | **.00002** | **-.00163** | **.03038** | **.00004** | **.00314** | **.00177** |
| Stddev | .00012 | .00157 | .00003 | .00069 | .01766 | .00046 | .00013 | .00077 |
| %RSD | 379.80 | 5298.7 | 197.23 | 42.615 | 58.125 | 1281.0 | 4.1797 | 43.161 |
| #1 | -.00005 | .00108 | .00004 | -.00114 | .01789 | .00036 | .00305 | .00232 |
| #2 | .00012 | -.00114 | -.00001 | -.00212 | .04286 | -.00029 | .00323 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6164.3** | **79740.** | **5461.5** |
| Stddev | 11.7 | 102. | 25.5 |
| %RSD | .18908 | .12758 | .46747 |
| #1 | 6156.0 | 79668. | 5443.5 |
| #2 | 6172.5 | 79812. | 5479.6 |

Sample Name: LCS 280-173462/2-A Acquired: 5/15/2013 12:01:30 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05734** | **1.8923** | **1.0509** | **1.0326** | **2.0928** | **.04928** | **2.0966** | **50.880** | **.10738** |
| Stddev | .00035 | .0001 | .0001 | .0027 | .0115 | .00011 | .0002 | .209 | .00003 |
| %RSD | .61118 | .00274 | .01153 | .26291 | .54835 | .22945 | .01029 | .40999 | .02352 |
| #1 | .05709 | 1.8923 | 1.0510 | 1.0307 | 2.1009 | .04936 | 2.0964 | 51.028 | .10737 |
| #2 | .05759 | 1.8924 | 1.0509 | 1.0345 | 2.0847 | .04920 | 2.0967 | 50.733 | .10740 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51725** | **.20315** | **.25679** | F **1.2345** | **52.706** | **1.0511** | **54.120** | **.53330** | **.99710** |
| Stddev | .00073 | .00032 | .00038 | .0007 | .301 | .0043 | .010 | .00038 | .00106 |
| %RSD | .14141 | .15521 | .14750 | .05931 | .57047 | .40974 | .01787 | .07130 | .10656 |
| #1 | .51673 | .20293 | .25652 | 1.2350 | 52.919 | 1.0542 | 54.127 | .53303 | .99635 |
| #2 | .51776 | .20337 | .25705 | 1.2340 | 52.494 | 1.0481 | 54.113 | .53357 | .99785 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.095** | **.54592** | **10.565** | **.51702** | **.00147** | **.52588** | **2.0712** | **10.225** | **2.0032** |
| Stddev | .051 | .00037 | .022 | .00023 | .00191 | .00171 | .0033 | .006 | .0047 |
| %RSD | .09628 | .06825 | .21092 | .04417 | 129.38 | .32489 | .15900 | .06153 | .23704 |
| #1 | 53.059 | .54618 | 10.549 | .51686 | .00013 | .52467 | 2.0688 | 10.229 | 1.9998 |
| #2 | 53.131 | .54565 | 10.581 | .51718 | .00282 | .52709 | 2.0735 | 10.220 | 2.0066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99812** | **1.0623** | **1.0483** | **1.9783** | **2.1064** | **.52579** | F **.55147** | **.49419** |
| Stddev | .00662 | .0003 | .0001 | .0010 | .0130 | .00046 | .00096 | .00196 |
| %RSD | .66344 | .03246 | .01165 | .04874 | .61497 | .08835 | .17433 | .39734 |
| #1 | 1.0028 | 1.0621 | 1.0482 | 1.9776 | 2.0972 | .52612 | .55215 | .49281 |
| #2 | .99344 | 1.0626 | 1.0484 | 1.9790 | 2.1156 | .52546 | .55079 | .49558 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | .55000 | |
| Low Limit | | | | | | | .42500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5971.7** | **77159.** | **5436.2** |
| Stddev | 13.7 | 296. | 47.6 |
| %RSD | .22925 | .38396 | .87640 |
| #1 | 5981.4 | 76950. | 5402.6 |
| #2 | 5962.0 | 77369. | 5469.9 |

Sample Name: LCSD 280-173462/3-A Acquired: 5/15/2013 12:03:42 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05728** | **1.8767** | **1.0377** | **1.0291** | **2.0939** | **.04917** | **2.0774** | **50.803** | **.10636** |
| Stddev | .00049 | .0008 | .0018 | .0004 | .0120 | .00028 | .0056 | .180 | .00000 |
| %RSD | .85262 | .04012 | .17722 | .03462 | .57095 | .57218 | .26817 | .35448 | .00432 |
| #1 | .05763 | 1.8762 | 1.0390 | 1.0289 | 2.1024 | .04937 | 2.0813 | 50.930 | .10636 |
| #2 | .05694 | 1.8773 | 1.0364 | 1.0294 | 2.0854 | .04897 | 2.0734 | 50.676 | .10635 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51252** | **.20142** | **.25423** | **.99537** | **52.631** | **1.0488** | **53.745** | **.52805** | **.99286** |
| Stddev | .00065 | .00010 | .00085 | .00523 | .360 | .0075 | .108 | .00008 | .00130 |
| %RSD | .12762 | .04913 | .33284 | .52542 | .68486 | .71869 | .20131 | .01422 | .13064 |
| #1 | .51206 | .20135 | .25364 | .99907 | 52.886 | 1.0542 | 53.822 | .52811 | .99377 |
| #2 | .51298 | .20149 | .25483 | .99167 | 52.376 | 1.0435 | 53.669 | .52800 | .99194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.768** | **.50409** | **10.462** | **.51106** | **.00059** | **.52255** | **2.0566** | **10.180** | **2.0006** |
| Stddev | .409 | .00047 | .015 | .00103 | .00625 | .00004 | .0030 | .045 | .0027 |
| %RSD | .77589 | .09244 | .14580 | .20094 | 1059.8 | .00796 | .14571 | .43929 | .13446 |
| #1 | 53.057 | .50442 | 10.473 | .51033 | .00501 | .52252 | 2.0545 | 10.212 | 2.0025 |
| #2 | 52.478 | .50376 | 10.452 | .51178 | -.00383 | .52258 | 2.0587 | 10.149 | 1.9987 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99732** | **1.0513** | **1.0431** | **1.9598** | **2.0741** | **.52037** | **.54815** | **.49734** |
| Stddev | .00717 | .0010 | .0012 | .0041 | .0051 | .00035 | .00107 | .00225 |
| %RSD | .71868 | .09284 | .11341 | .21110 | .24373 | .06812 | .19481 | .45241 |
| #1 | 1.0024 | 1.0520 | 1.0423 | 1.9627 | 2.0705 | .52062 | .54890 | .49893 |
| #2 | .99225 | 1.0506 | 1.0439 | 1.9568 | 2.0776 | .52012 | .54739 | .49575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6001.2** | **77321.** | **5414.9** |
| Stddev | 4.0 | 234. | 37.5 |
| %RSD | .06684 | .30309 | .69181 |
| #1 | 5998.4 | 77155. | 5388.4 |
| #2 | 6004.1 | 77487. | 5441.4 |

Sample Name: 280-41987-A-1-A Acquired: 5/15/2013 12:05:55 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02536** | **39.683** | **.19127** | **.60029** | **1.0841** | **.01822** | **.27154** | **94.630** | **.03749** |
| Stddev | .00042 | .010 | .00099 | .00171 | .0012 | .00001 | .00242 | .091 | .00053 |
| %RSD | 1.6641 | .02549 | .51840 | .28551 | .10683 | .06253 | .88997 | .09634 | 1.4222 |
| #1 | .02566 | 39.675 | .19057 | .59908 | 1.0833 | .01821 | .26983 | 94.565 | .03711 |
| #2 | .02506 | 39.690 | .19198 | .60151 | 1.0849 | .01823 | .27325 | 94.694 | .03787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11785** | **.44498** | **.35934** | **59.683** | **25.102** | **.24880** | **48.445** | **4.1015** | **.34422** |
| Stddev | .00010 | .00012 | .00066 | .063 | .059 | .00126 | .004 | .0152 | .00068 |
| %RSD | .08381 | .02642 | .18349 | .10586 | .23517 | .50502 | .00878 | .37121 | .19670 |
| #1 | .11792 | .44506 | .35981 | 59.638 | 25.060 | .24969 | 48.448 | 4.0908 | .34374 |
| #2 | .11778 | .44490 | .35887 | 59.727 | 25.144 | .24791 | 48.442 | 4.1123 | .34470 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **324.09** | **.25009** | **3.5242** | **1.4625** | **64.794** | **.09775** | **.27576** | **7.2819** | **.50180** |
| Stddev | .34 | .00080 | .0026 | .0072 | .007 | .00025 | .00581 | .0144 | .00142 |
| %RSD | .10571 | .32160 | .07370 | .49499 | .01035 | .25593 | 2.1079 | .19820 | .28349 |
| #1 | 324.34 | .24952 | 3.5224 | 1.4574 | 64.799 | .09793 | .27165 | 7.2717 | .50080 |
| #2 | 323.85 | .25066 | 3.5260 | 1.4676 | 64.790 | .09757 | .27987 | 7.2921 | .50281 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89161** | **.21268** | **1.4791** | **.24975** | **.37891** | **.20553** | **4.5698** | **.34261** |
| Stddev | .00066 | .00226 | .0032 | .00152 | .05040 | .00032 | .0073 | .00138 |
| %RSD | .07456 | 1.0627 | .21723 | .60692 | 13.301 | .15570 | .15943 | .40199 |
| #1 | .89208 | .21427 | 1.4814 | .24867 | .34327 | .20576 | 4.5750 | .34164 |
| #2 | .89114 | .21108 | 1.4769 | .25082 | .41454 | .20530 | 4.5647 | .34358 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6193.0** | **80188.** | **5733.6** |
| Stddev | 3.5 | 58. | 7.3 |
| %RSD | .05668 | .07246 | .12726 |
| #1 | 6190.5 | 80229. | 5728.4 |
| #2 | 6195.5 | 80147. | 5738.7 |

Sample Name: sd 280-41987-A-1-A@5 Acquired: 5/15/2013 12:08:21 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00467** | **8.5669** | **.03814** | **.12490** | **.23246** | **.00384** | **.05811** | **20.402** | **.00790** |
| Stddev | .00059 | .0056 | .00289 | .00045 | .00025 | .00006 | .00279 | .046 | .00033 |
| %RSD | 12.527 | .06503 | 7.5806 | .36421 | .10781 | 1.4745 | 4.8074 | .22705 | 4.1994 |
| #1 | .00426 | 8.5629 | .03610 | .12522 | .23229 | .00388 | .06008 | 20.369 | .00767 |
| #2 | .00508 | 8.5708 | .04018 | .12457 | .23264 | .00380 | .05613 | 20.434 | .00814 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02580** | **.09668** | **.07649** | **12.281** | **5.3435** | **.05833** | **10.729** | **.89620** | **.07322** |
| Stddev | .00012 | .00030 | .00003 | .020 | .0153 | .00041 | .009 | .00002 | .00017 |
| %RSD | .46279 | .30585 | .03916 | .15994 | .28662 | .69484 | .08353 | .00237 | .22654 |
| #1 | .02589 | .09647 | .07647 | 12.267 | 5.3543 | .05804 | 10.736 | .89622 | .07311 |
| #2 | .02572 | .09689 | .07651 | 12.295 | 5.3327 | .05861 | 10.723 | .89619 | .07334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **69.657** | **.05439** | **.74538** | **.32177** | **13.738** | **.01939** | **.05830** | **1.5602** | **.10830** |
| Stddev | .225 | .00009 | .00226 | .00046 | .048 | .00179 | .00492 | .0091 | .00013 |
| %RSD | .32288 | .15855 | .30257 | .14393 | .34676 | 9.2245 | 8.4332 | .58013 | .11545 |
| #1 | 69.816 | .05433 | .74379 | .32145 | 13.704 | .02066 | .06178 | 1.5666 | .10821 |
| #2 | 69.498 | .05445 | .74698 | .32210 | 13.771 | .01813 | .05483 | 1.5538 | .10838 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19190** | **.04861** | **.31652** | **.05545** | **.09373** | **.04409** | **1.0212** | **.07232** |
| Stddev | .00021 | .00260 | .00097 | .00056 | .00259 | .00043 | .0032 | .00300 |
| %RSD | .10922 | 5.3506 | .30669 | 1.0097 | 2.7680 | .96549 | .31834 | 4.1436 |
| #1 | .19205 | .04677 | .31584 | .05506 | .09557 | .04379 | 1.0235 | .07443 |
| #2 | .19175 | .05045 | .31721 | .05585 | .09190 | .04439 | 1.0189 | .07020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6126.0** | **79009.** | **5506.8** |
| Stddev | 28.2 | 324. | 12.6 |
| %RSD | .46024 | .41000 | .22968 |
| #1 | 6146.0 | 78780. | 5515.7 |
| #2 | 6106.1 | 79238. | 5497.8 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 12:10:40 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00800** | **51.351** | **-.00311** | **-.00502** | **.00095** | **-.00010** | **1.0381** | **.00987** | **-.00069** | **.00227** | **.00016** | **.00098** | **51.360** |
| Stddev | .00081 | .170 | .00043 | .00051 | .00025 | .00006 | .0026 | .00278 | .00006 | .00013 | .00028 | .00018 | .046 |
| %RSD | 10.073 | .33189 | 13.739 | 10.200 | 25.880 | 56.694 | .25271 | 28.178 | 9.3820 | 5.8314 | 175.93 | 17.960 | .09044 |
| #1 | .00743 | 51.472 | -.00281 | -.00466 | .00113 | -.00014 | 1.0362 | .01184 | -.00064 | .00218 | -.00004 | .00086 | 51.327 |
| #2 | .00857 | 51.231 | -.00341 | -.00539 | .00078 | -.00006 | 1.0399 | .00790 | -.00073 | .00236 | .00035 | .00111 | 51.392 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01137** | **.00941** | **-.01294** | **-.00053** | **-.00185** | **267.37** | **.00096** | **-.00457** | **.00143** | **5.4132** | **-.00284** | **.00474** | **-.00739** |
| Stddev | .02052 | .00441 | .00457 | .00019 | .00014 | .90 | .00070 | .00113 | .00117 | .0050 | .00113 | .00092 | .00327 |
| %RSD | 180.53 | 46.836 | 35.347 | 36.364 | 7.4932 | .33475 | 72.774 | 24.688 | 81.593 | .09187 | 39.842 | 19.353 | 44.276 |
| #1 | -.02588 | .00629 | -.00970 | -.00039 | -.00175 | 268.01 | .00145 | -.00536 | .00061 | 5.4096 | -.00204 | .00538 | -.00507 |
| #2 | .00314 | .01252 | -.01617 | -.00067 | -.00195 | 266.74 | .00047 | -.00377 | .00226 | 5.4167 | -.00364 | .00409 | -.00970 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00036** | **5.2730** | **.00317** | **-.00365** | **10.235** | **-.00038** | **.00369** | **-.04202** |
| Stddev | .00032 | .00005 | .0025 | .00014 | .00060 | .012 | .00007 | .00007 | .00211 |
| %RSD | 56.834 | 14.725 | .04668 | 4.4099 | 16.452 | .11418 | 17.861 | 1.9973 | 5.0096 |
| #1 | .00079 | .00039 | 5.2713 | .00308 | -.00322 | 10.227 | -.00043 | .00364 | -.04351 |
| #2 | .00034 | .00032 | 5.2748 | .00327 | -.00407 | 10.244 | -.00033 | .00374 | -.04053 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5987.1** | **77509.** | **5379.0** |
| Stddev | 5.7 | 238. | 34.6 |
| %RSD | .09602 | .30700 | .64328 |
| #1 | 5991.2 | 77341. | 5354.6 |
| #2 | 5983.0 | 77677. | 5403.5 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 12:13:03 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54443** | **.52039** | **1.0628** | **.51539** | **.52824** | **.50221** | **-.00066** | **5.2702** | **.52831** | **.53388** | **.51750** | **.52228** |
| Stddev | .00100 | .00083 | .0074 | .00189 | .00045 | .00068 | .00323 | .0233 | .00161 | .00143 | .00211 | .00011 |
| %RSD | .18412 | .15883 | .69745 | .36728 | .08452 | .13487 | 493.12 | .44184 | .30546 | .26784 | .40852 | .02029 |
| #1 | .54372 | .52097 | 1.0576 | .51405 | .52792 | .50173 | .00163 | 5.2867 | .52717 | .53287 | .51600 | .52221 |
| #2 | .54513 | .51980 | 1.0681 | .51673 | .52856 | .50269 | -.00294 | 5.2538 | .52945 | .53489 | .51899 | .52236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5094** | **53.169** | **1.0763** | F **22.194** | **.54660** | **.50816** | **5.4462** | **.52878** | **1.0331** | **1.0590** | **.00991** | **1.0549** |
| Stddev | .0199 | .005 | .0014 | .018 | .00002 | .00155 | .0286 | .00147 | .0046 | .0011 | .00141 | .0029 |
| %RSD | .79320 | .00900 | .13019 | .08192 | .00310 | .30514 | .52468 | .27801 | .44048 | .10507 | 14.239 | .27374 |
| #1 | 2.5234 | 53.166 | 1.0753 | 22.182 | .54658 | .50706 | 5.4664 | .52774 | 1.0299 | 1.0582 | .01091 | 1.0529 |
| #2 | 2.4953 | 53.173 | 1.0773 | 22.207 | .54661 | .50925 | 5.4260 | .52982 | 1.0363 | 1.0597 | .00891 | 1.0570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | 20.000 | | | | | | | | |
| Range | | | | 10.000% | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0460** | **5.0815** | **1.0336** | **.51141** | **.00354** | **.53211** | **1.0175** | **.04373** | **.53121** | F **.56858** | **.51852** |
| Stddev | .0047 | .0203 | .0042 | .00098 | .00185 | .00047 | .0017 | .04358 | .00108 | .00234 | .00514 |
| %RSD | .44628 | .39916 | .40524 | .19260 | 52.075 | .08859 | .16528 | 99.663 | .20340 | .41151 | .99039 |
| #1 | 1.0427 | 5.0958 | 1.0307 | .51211 | .00485 | .53244 | 1.0163 | .01291 | .53197 | .57023 | .51489 |
| #2 | 1.0493 | 5.0671 | 1.0366 | .51071 | .00224 | .53178 | 1.0187 | .07455 | .53044 | .56693 | .52215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6103.3** | **78513.** | **5444.0** |
| Stddev | 9.5 | 458. | 6.7 |
| %RSD | .15621 | .58363 | .12259 |
| #1 | 6110.1 | 78189. | 5448.7 |
| #2 | 6096.6 | 78837. | 5439.3 |

Sample Name: CCB Acquired: 5/15/2013 12:15:16 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00056** | **.01201** | **-.00078** | F **-.00670** | **.00046** | **-.00001** | **-.00097** | **-.00014** | **.00005** | **.00040** | **-.00002** |
| Stddev | .00106 | .00081 | .00207 | .00014 | .00023 | .00004 | .00125 | .00249 | .00004 | .00008 | .00001 |
| %RSD | 187.70 | 6.7592 | 265.53 | 2.0374 | 51.092 | 318.10 | 128.19 | 1793.1 | 79.287 | 21.053 | 47.597 |
| #1 | -.00131 | .01258 | .00068 | -.00680 | .00029 | .00001 | -.00009 | -.00190 | .00008 | .00046 | -.00002 |
| #2 | .00018 | .01143 | -.00224 | -.00661 | .00062 | -.00004 | -.00185 | .00162 | .00002 | .00034 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | F **.04438** | **-.02874** | F **.00780** | **-.00132** | W **.00039** | **.00021** | F **.17598** | **.00001** | F **-.01226** | **.00080** |
| Stddev | .00002 | .00095 | .03315 | .00156 | .00087 | .00001 | .00006 | .00787 | .00009 | .00174 | .00079 |
| %RSD | 5.6027 | 2.1436 | 115.33 | 20.021 | 66.089 | 2.1253 | 28.784 | 4.4735 | 851.29 | 14.173 | 98.785 |
| #1 | .00036 | .04505 | -.00530 | .00890 | -.00194 | .00039 | .00025 | .18155 | .00008 | -.01103 | .00136 |
| #2 | .00033 | .04370 | -.05218 | .00669 | -.00070 | .00040 | .00017 | .17042 | -.00005 | -.01348 | .00024 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .04400 | | .00522 | | .00025 | | .10000 | | .01000 | |
| Low Limit | | -.04400 | | -.00522 | | -.00025 | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00667** | **.00034** | **-.00095** | **.01147** | **-.00037** | **-.00005** | **.00052** | **-.00011** | **-.00083** | **.01637** | **.00034** |
| Stddev | .00205 | .00305 | .00207 | .02600 | .00033 | .00005 | .00145 | .00006 | .00034 | .00847 | .00063 |
| %RSD | 30.740 | 886.85 | 217.56 | 226.66 | 90.251 | 106.85 | 278.75 | 55.525 | 41.221 | 51.745 | 184.80 |
| #1 | .00812 | .00250 | .00051 | .02986 | -.00060 | -.00001 | .00155 | -.00006 | -.00059 | .01038 | .00079 |
| #2 | .00522 | -.00181 | -.00242 | -.00692 | -.00013 | -.00009 | -.00051 | -.00015 | -.00107 | .02236 | -.00010 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00280** | **-.00065** |
| Stddev | .00033 | .00277 |
| %RSD | 11.884 | 424.39 |
| #1 | .00257 | .00131 |
| #2 | .00304 | -.00261 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6087.7** | **79118.** | **5412.3** |
| Stddev | 9.6 | 105. | 1.3 |
| %RSD | .15688 | .13219 | .02450 |
| #1 | 6080.9 | 79044. | 5413.2 |
| #2 | 6094.4 | 79192. | 5411.4 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 12:17:44 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01023** | **.10037** | **.01507** | **.09156** | **.01067** | **.00097** | **.10501** | **.20434** | **.00533** | **.01103** | **.01022** |
| Stddev | .00090 | .00001 | .00360 | .00022 | .00018 | .00011 | .00067 | .00301 | .00001 | .00029 | .00012 |
| %RSD | 8.7904 | .00622 | 23.913 | .23813 | 1.6732 | 11.280 | .63729 | 1.4743 | .26423 | 2.5960 | 1.1820 |
| #1 | .01087 | .10038 | .01253 | .09171 | .01080 | .00089 | .10548 | .20221 | .00534 | .01123 | .01014 |
| #2 | .00959 | .10037 | .01762 | .09141 | .01055 | .00104 | .10454 | .20647 | .00532 | .01083 | .01031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01594** | W **.12360** | **3.1437** | F **.01989** | **.22433** | **.01101** | **.01974** | **1.1831** | **.04214** | **2.9802** | **.00947** |
| Stddev | .00018 | .00031 | .0217 | .00083 | .00117 | .00008 | .00012 | .0013 | .00026 | .0006 | .00046 |
| %RSD | 1.1464 | .25277 | .69183 | 4.1788 | .52152 | .69947 | .62148 | .10769 | .61792 | .01903 | 4.8531 |
| #1 | .01581 | .12382 | 3.1283 | .01930 | .22516 | .01107 | .01966 | 1.1822 | .04195 | 2.9806 | .00915 |
| #2 | .01607 | .12338 | 3.1591 | .02048 | .22350 | .01096 | .01983 | 1.1840 | .04232 | 2.9798 | .00980 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | | | | | | | |
| Range | | 20.000% | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00287** | F **.00682** | **.01343** | **.52595** | **.10196** | **.01011** | **.01573** | **.01073** | **.01486** | F **.11057** | **.01063** |
| Stddev | .00184 | .00059 | .00430 | .00720 | .00030 | .00012 | .00249 | .00019 | .00061 | .01853 | .00013 |
| %RSD | 64.300 | 8.6378 | 32.038 | 1.3682 | .29230 | 1.2290 | 15.804 | 1.7802 | 4.0867 | 16.756 | 1.2094 |
| #1 | .00417 | .00724 | .01039 | .52086 | .10217 | .01002 | .01398 | .01059 | .01529 | .09747 | .01072 |
| #2 | .00156 | .00641 | .01647 | .53104 | .10175 | .01020 | .01749 | .01086 | .01443 | .12367 | .01054 |
| Check ? | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -30.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02629** | **.01531** |
| Stddev | .00015 | .00095 |
| %RSD | .58191 | 6.2131 |
| #1 | .02618 | .01599 |
| #2 | .02640 | .01464 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6199.4** | **79680.** | **5495.3** |
| Stddev | 9.2 | 37. | 35.5 |
| %RSD | .14921 | .04634 | .64659 |
| #1 | 6205.9 | 79706. | 5520.4 |
| #2 | 6192.9 | 79654. | 5470.2 |

Sample Name: 280-41987-A-2-A  Acquired: 5/15/2013 12:20:08  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00098** | **2.5911** | W **3.0707** | **.01309** | **.61537** | **.05662** | **.00004** | **.00477** | **16.568** |
| Stddev | .00053 | .0095 | .0338 | .00023 | .00059 | .00013 | .00012 | .00324 | .098 |
| %RSD | 53.663 | .36502 | 1.1013 | 1.7270 | .09608 | .22131 | 274.78 | 67.859 | .59096 |
| #1 | -.00061 | 2.5978 | 3.0946 | .01293 | .61495 | .05653 | -.00004 | .00706 | 16.638 |
| #2 | -.00135 | 2.5845 | 3.0468 | .01325 | .61578 | .05671 | .00013 | .00248 | 16.499 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | | |
| Low Limit | | | 4.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00973** | **.00249** | **.02599** | **.01869** | **28.989** | **44.949** | **.09865** | **8.1649** | **.18072** |
| Stddev | .00021 | .00014 | .00023 | .00061 | .204 | 2.933 | .00264 | .0156 | .00028 |
| %RSD | 2.1113 | 5.7795 | .88011 | 3.2479 | .70504 | 6.5240 | 2.6759 | .19145 | .15681 |
| #1 | .00988 | .00260 | .02615 | .01912 | 29.133 | 42.876 | .09679 | 8.1760 | .18092 |
| #2 | .00959 | .00239 | .02583 | .01826 | 28.844 | 47.023 | .10052 | 8.1539 | .18052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02098** | F **13309.** | **.01279** | F **143.19** | **.04786** | **295.81** | **.00127** | **.04054** | **9.3548** |
| Stddev | .00049 | 9. | .00021 | .34 | .00142 | .07 | .00024 | .00233 | .0111 |
| %RSD | 2.3587 | .06494 | 1.6634 | .24017 | 2.9664 | .02490 | 18.898 | 5.7475 | .11872 |
| #1 | .02063 | 13315. | .01264 | 143.43 | .04685 | 295.76 | .00144 | .04219 | 9.3469 |
| #2 | .02133 | 13303. | .01294 | 142.94 | .04886 | 295.86 | .00110 | .03890 | 9.3627 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10000. | | 50.000 | | | | | |
| Low Limit | | 9.0000 | | -2.0000 | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1732** | **.22504** | **.00306** | **.03359** | W **-.01346** | **.08474** | **.00800** | **.75829** | **.01252** |
| Stddev | .0019 | .00127 | .00022 | .00020 | .00054 | .05827 | .00027 | .00272 | .00106 |
| %RSD | .16650 | .56433 | 7.1580 | .60847 | 3.9791 | 68.759 | 3.3390 | .35812 | 8.4984 |
| #1 | 1.1746 | .22594 | .00322 | .03374 | -.01308 | .04354 | .00819 | .76021 | .01328 |
| #2 | 1.1718 | .22414 | .00291 | .03345 | -.01384 | .12595 | .00781 | .75637 | .01177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 5.0000 | | | | |
| Low Limit | | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4831.1** | **61591.** | **4983.1** |
| Stddev | 27.9 | 316. | 10.2 |
| %RSD | .57792 | .51343 | .20437 |
| #1 | 4811.4 | 61368. | 4975.9 |
| #2 | 4850.9 | 61815. | 4990.3 |

Sample Name: 280-41987-A-3-A  Acquired: 5/15/2013 12:23:14  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02353** | **341.16** | **.16763** | **.74352** | **4.6347** | **.00911** | **.02886** | W **811.83** | **.17119** |
| Stddev | .00017 | 1.80 | .00209 | .00490 | .0264 | .00010 | .00165 | 1.57 | .00108 |
| %RSD | .73868 | .52649 | 1.2452 | .65897 | .56939 | 1.0951 | 5.7091 | .19314 | .63233 |
| #1 | .02365 | 339.89 | .16911 | .74699 | 4.6160 | .00904 | .02769 | 812.93 | .17195 |
| #2 | .02341 | 342.43 | .16615 | .74006 | 4.6534 | .00918 | .03002 | 810.72 | .17042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30170** | W **12.976** | **2.7796** | **270.53** | **55.720** | **.28644** | W **646.62** | **7.5794** | **1.0704** |
| Stddev | .00120 | .028 | .0086 | 1.03 | .322 | .00259 | .87 | .0244 | .0017 |
| %RSD | .39928 | .21501 | .31072 | .37912 | .57848 | .90324 | .13448 | .32230 | .15700 |
| #1 | .30255 | 12.996 | 2.7857 | 269.80 | 55.492 | .28461 | 646.00 | 7.5622 | 1.0716 |
| #2 | .30085 | 12.957 | 2.7735 | 271.25 | 55.948 | .28827 | 647.23 | 7.5967 | 1.0692 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | 500.00 | | |
| Low Limit | | -.01000 | | | | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1157.0** | **2.2564** | **15.768** | **3.0332** | **203.24** | **.09458** | **.05041** | W **74.301** | **.37594** |
| Stddev | 4.2 | .0052 | .019 | .0026 | .38 | .00072 | .00084 | .108 | .00203 |
| %RSD | .36345 | .22821 | .11891 | .08461 | .18589 | .76276 | 1.6610 | .14592 | .53995 |
| #1 | 1154.0 | 2.2600 | 15.781 | 3.0350 | 203.51 | .09509 | .04982 | 74.378 | .37738 |
| #2 | 1159.9 | 2.2527 | 15.754 | 3.0314 | 202.97 | .09407 | .05100 | 74.224 | .37451 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 500.00 | | | | | | | 50.000 | |
| Low Limit | 10.000 | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4020** | **.09832** | **4.8413** | W **-.01147** | F **-.11882** | **.54891** | W **14.152** | **.06849** |
| Stddev | .0145 | .00215 | .0049 | .00064 | .02624 | .00184 | .002 | .00076 |
| %RSD | .42593 | 2.1911 | .10160 | 5.5611 | 22.085 | .33475 | .01718 | 1.1073 |
| #1 | 3.3917 | .09679 | 4.8378 | -.01192 | -.10026 | .55021 | 14.154 | .06902 |
| #2 | 3.4122 | .09984 | 4.8447 | -.01102 | -.13737 | .54761 | 14.150 | .06795 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 5.0000 | 50.000 | | 10.000 | |
| Low Limit | | | | -.01000 | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5962.7** | **77525.** | **5893.4** |
| Stddev | 3.6 | 121. | 3.9 |
| %RSD | .06082 | .15608 | .06634 |
| #1 | 5960.1 | 77610. | 5896.1 |
| #2 | 5965.3 | 77439. | 5890.6 |

Sample Name: 280-41987-A-4-A Acquired: 5/15/2013 12:27:12 Type: Unk
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.19838** | **9.5012** | **.42226** | **.79138** | **.85041** | **.00051** | **.00020** | **143.79** | W **2.7881** |
| Stddev | .00013 | .1186 | .00386 | .00598 | .00893 | .00004 | .00174 | 1.66 | .0132 |
| %RSD | .06526 | 1.2487 | .91367 | .75511 | 1.0499 | 7.8512 | 870.90 | 1.1552 | .47153 |
| #1 | .19847 | 9.5851 | .42499 | .79561 | .85672 | .00054 | .00143 | 144.97 | 2.7974 |
| #2 | .19829 | 9.4173 | .41953 | .78716 | .84409 | .00048 | -.00103 | 142.62 | 2.7788 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | | | | 2.0000 |
| Low Limit | -.01000 | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00963** | **.17125** | **.93242** | **24.328** | **42.180** | **.19776** | **100.40** | **.80774** | **.10587** |
| Stddev | .00006 | .00101 | .00227 | .315 | .404 | .00121 | .39 | .00229 | .00103 |
| %RSD | .63635 | .58956 | .24338 | 1.2960 | .95763 | .60977 | .38793 | .28319 | .97020 |
| #1 | .00967 | .17196 | .93403 | 24.551 | 42.466 | .19691 | 100.67 | .80935 | .10660 |
| #2 | .00959 | .17054 | .93082 | 24.105 | 41.894 | .19861 | 100.12 | .80612 | .10514 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **848.67** | **.34418** | **2.2991** | **.16929** | **433.41** | **.02749** | **.05384** | **23.399** | **.09998** |
| Stddev | 10.43 | .00292 | .0189 | .00179 | 2.13 | .00339 | .00596 | .141 | .00100 |
| %RSD | 1.2295 | .84922 | .82122 | 1.0579 | .49039 | 12.336 | 11.070 | .60417 | .99610 |
| #1 | 856.04 | .34625 | 2.3125 | .17055 | 434.92 | .02510 | .05806 | 23.499 | .10069 |
| #2 | 841.29 | .34211 | 2.2858 | .16802 | 431.91 | .02989 | .04963 | 23.300 | .09928 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8682** | **.00641** | **.16879** | **-.00136** | **.01414** | **.03885** | **3.5220** | **.00747** |
| Stddev | .0222 | .00154 | .00121 | .00082 | .02407 | .00006 | .0160 | .00047 |
| %RSD | 1.1894 | 24.082 | .71691 | 59.844 | 170.26 | .15566 | .45328 | 6.3392 |
| #1 | 1.8839 | .00532 | .16964 | -.00079 | .03116 | .03881 | 3.5333 | .00714 |
| #2 | 1.8525 | .00750 | .16793 | -.00194 | -.00288 | .03889 | 3.5107 | .00781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5735.0** | **74224.** | **5368.3** |
| Stddev | 36.9 | 271. | 87.9 |
| %RSD | .64358 | .36509 | 1.6379 |
| #1 | 5708.9 | 74033. | 5306.1 |
| #2 | 5761.1 | 74416. | 5430.5 |

Sample Name: 280-41987-A-5-A  Acquired: 5/15/2013 12:30:09  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **5.2337** | **.12303** | **2.0217** | **.19696** | **.00008** | **.00242** | **88.978** | **.43822** |
| Stddev | .00030 | .0041 | .00061 | .0040 | .00144 | .00002 | .00255 | .161 | .00137 |
| %RSD | 24.183 | .07776 | .49763 | .19824 | .72975 | 19.606 | 105.04 | .18148 | .31204 |
| #1 | .00146 | 5.2308 | .12260 | 2.0245 | .19594 | .00009 | .00423 | 88.864 | .43919 |
| #2 | .00104 | 5.2365 | .12346 | 2.0188 | .19797 | .00007 | .00062 | 89.092 | .43726 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00973** | **.12817** | **.82199** | **36.613** | **44.412** | **.08098** | **41.507** | **.62156** | **.04415** |
| Stddev | .00019 | .00073 | .00254 | .059 | .178 | .00187 | .012 | .00012 | .00033 |
| %RSD | 1.9048 | .57092 | .30882 | .16089 | .40031 | 2.3071 | .02839 | .02002 | .75176 |
| #1 | .00960 | .12869 | .82378 | 36.572 | 44.286 | .07966 | 41.515 | .62164 | .04392 |
| #2 | .00986 | .12765 | .82019 | 36.655 | 44.538 | .08230 | 41.498 | .62147 | .04439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **658.51** | **.43501** | **1.9781** | **.02548** | **570.62** | **.04107** | **.01846** | **11.413** | **.07650** |
| Stddev | .34 | .00177 | .0155 | .00104 | 1.37 | .00264 | .00167 | .040 | .00023 |
| %RSD | .05207 | .40677 | .78228 | 4.0862 | .23960 | 6.4327 | 9.0212 | .34731 | .30353 |
| #1 | 658.26 | .43626 | 1.9891 | .02474 | 571.59 | .04294 | .01963 | 11.385 | .07666 |
| #2 | 658.75 | .43376 | 1.9672 | .02621 | 569.66 | .03921 | .01728 | 11.441 | .07633 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72178** | **.00752** | **.14930** | **-.00297** | **.02595** | **.03368** | **2.1089** | **.00605** |
| Stddev | .00298 | .00208 | .00004 | .00033 | .02412 | .00111 | .0039 | .00043 |
| %RSD | .41348 | 27.591 | .02396 | 11.234 | 92.922 | 3.2809 | .18319 | 7.1344 |
| #1 | .71967 | .00899 | .14933 | -.00273 | .00890 | .03290 | 2.1062 | .00575 |
| #2 | .72389 | .00606 | .14928 | -.00320 | .04301 | .03447 | 2.1116 | .00636 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5958.0** | **77130.** | **5541.4** |
| Stddev | 8.4 | 295. | 4.8 |
| %RSD | .14114 | .38303 | .08616 |
| #1 | 5952.1 | 77339. | 5538.0 |
| #2 | 5964.0 | 76921. | 5544.8 |

Sample Name: 280-41987-A-6-A  Acquired: 5/15/2013 12:33:06  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **5.4627** | **.12944** | **.98148** | **.23888** | **.00120** | **.00368** | **155.83** | **.01023** |
| Stddev | .00019 | .0291 | .00142 | .00569 | .00202 | .00010 | .00089 | 1.31 | .00027 |
| %RSD | 13.082 | .53227 | 1.0933 | .58004 | .84512 | 8.5375 | 24.090 | .83917 | 2.6025 |
| #1 | .00159 | 5.4421 | .12844 | .97746 | .23745 | .00112 | .00305 | 154.90 | .01004 |
| #2 | .00132 | 5.4833 | .13044 | .98551 | .24031 | .00127 | .00431 | 156.75 | .01042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01424** | **.18470** | **1.0597** | **32.799** | **75.246** | **.39427** | **110.15** | **.82847** | **.04651** |
| Stddev | .00015 | .00119 | .0065 | .208 | .894 | .00300 | .54 | .00442 | .00038 |
| %RSD | 1.0276 | .64314 | .61182 | .63456 | 1.1880 | .76183 | .49469 | .53339 | .82653 |
| #1 | .01414 | .18386 | 1.0551 | 32.651 | 74.614 | .39214 | 109.76 | .82535 | .04678 |
| #2 | .01435 | .18554 | 1.0643 | 32.946 | 75.878 | .39639 | 110.53 | .83160 | .04623 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1494.3** | **.34138** | **9.8624** | **.04130** | **630.92** | **.04430** | **1.2543** | **15.737** | **.05669** |
| Stddev | 8.2 | .00204 | .0824 | .00155 | 3.00 | .00257 | .0072 | .008 | .00077 |
| %RSD | .54580 | .59766 | .83499 | 3.7590 | .47581 | 5.8042 | .57160 | .05348 | 1.3600 |
| #1 | 1488.5 | .33994 | 9.8042 | .04020 | 628.79 | .04612 | 1.2492 | 15.731 | .05614 |
| #2 | 1500.0 | .34283 | 9.9206 | .04240 | 633.04 | .04248 | 1.2593 | 15.743 | .05723 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4505** | **.01043** | **.15242** | **.00120** | **.04425** | **.04432** | **1.6474** | **.00364** |
| Stddev | .0093 | .00229 | .00091 | .00009 | .03586 | .00025 | .0100 | .00120 |
| %RSD | .63807 | 21.975 | .59706 | 7.1541 | 81.033 | .57041 | .60790 | 33.021 |
| #1 | 1.4439 | .00881 | .15306 | .00114 | .01890 | .04450 | 1.6404 | .00449 |
| #2 | 1.4570 | .01205 | .15178 | .00126 | .06961 | .04414 | 1.6545 | .00279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5407.6** | **70389.** | **5171.8** |
| Stddev | 8.4 | 160. | 32.6 |
| %RSD | .15459 | .22669 | .63117 |
| #1 | 5413.5 | 70502. | 5194.9 |
| #2 | 5401.7 | 70277. | 5148.7 |

Sample Name: 280-41987-A-7-A  Acquired: 5/15/2013 12:36:04  Type: Unk
Method: 6500_026(v9)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00067** | **21.879** | **.05528** | **1.5524** | **.46959** | F **-.00719** | F **-.02934** | **259.24** | **.00252** |
| Stddev | .00027 | .241 | .00051 | .0001 | .00631 | .00006 | .00142 | 3.07 | .00012 |
| %RSD | 41.057 | 1.1010 | .91747 | .00809 | 1.3437 | .87706 | 4.8491 | 1.1853 | 4.7381 |
| #1 | -.00086 | 21.709 | .05492 | 1.5523 | .46513 | -.00715 | -.03035 | 257.07 | .00261 |
| #2 | -.00048 | 22.050 | .05563 | 1.5525 | .47405 | -.00724 | -.02834 | 261.42 | .00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | 20.000 | 100.00 | | |
| Low Limit | | | | | | -.00400 | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01972** | **.25930** | **1.3267** | **61.868** | W **136.36** | **1.0327** | **189.72** | **1.3180** | **.23812** |
| Stddev | .00061 | .00044 | .0088 | .182 | 2.12 | .0168 | .67 | .0119 | .00027 |
| %RSD | 3.1070 | .16810 | .66422 | .29452 | 1.5549 | 1.6222 | .35072 | .90226 | .11528 |
| #1 | .02016 | .25961 | 1.3329 | 61.739 | 134.86 | 1.0209 | 190.19 | 1.3264 | .23832 |
| #2 | .01929 | .25899 | 1.3204 | 61.997 | 137.86 | 1.0446 | 189.25 | 1.3096 | .23793 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3208.1** | **.55602** | **6.4103** | F **-.07084** | **751.45** | **.02485** | **.02098** | **42.282** | **.11873** |
| Stddev | 33.3 | .00158 | .0296 | .00015 | .21 | .00129 | .00085 | .511 | .00118 |
| %RSD | 1.0365 | .28474 | .46117 | .21369 | .02854 | 5.1807 | 4.0502 | 1.2084 | .99588 |
| #1 | 3184.6 | .55714 | 6.4312 | -.07073 | 751.30 | .02576 | .02038 | 41.921 | .11957 |
| #2 | 3231.6 | .55490 | 6.3894 | -.07095 | 751.61 | .02394 | .02159 | 42.643 | .11790 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | 200.00 | | | | | |
| Low Limit | 10.000 | | | -.00900 | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.0983** | **.01351** | F **28.250** | **-.00576** | **-.00808** | **.05464** | **3.9075** | **.03870** |
| Stddev | .0430 | .00148 | .048 | .00037 | .03505 | .00037 | .0407 | .00195 |
| %RSD | 1.0484 | 10.947 | .16937 | 6.4237 | 433.78 | .66836 | 1.0406 | 5.0335 |
| #1 | 4.0679 | .01456 | 28.216 | -.00602 | -.03286 | .05490 | 3.9363 | .03732 |
| #2 | 4.1287 | .01247 | 28.283 | -.00550 | .01670 | .05438 | 3.8788 | .04008 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 25.000 | | | | | |
| Low Limit | | | -.02000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5278.5** | **68253.** | **5054.5** |
| Stddev | 17.4 | 356. | 80.2 |
| %RSD | .32897 | .52088 | 1.5871 |
| #1 | 5290.8 | 68002. | 5111.2 |
| #2 | 5266.2 | 68505. | 4997.7 |

Sample Name: CCVH-2050355 Acquired: 5/15/2013 12:39:54 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00789** | **51.230** | **-.00202** | **-.00244** | **.00117** | **-.00004** | **1.0472** | **.00555** | **-.00101** | **.00213** | **-.00017** | **.00203** | **50.065** |
| Stddev | .00021 | .008 | .00108 | .00052 | .00006 | .00001 | .0021 | .00255 | .00011 | .00002 | .00024 | .00020 | .147 |
| %RSD | 2.6983 | .01608 | 53.682 | 21.305 | 4.8196 | 15.120 | .20135 | 46.056 | 10.834 | .77060 | 138.47 | 9.7622 | .29410 |
| #1 | .00774 | 51.236 | -.00125 | -.00208 | .00113 | -.00004 | 1.0486 | .00735 | -.00109 | .00212 | -.00000 | .00189 | 50.169 |
| #2 | .00804 | 51.224 | -.00279 | -.00281 | .00121 | -.00003 | 1.0457 | .00374 | -.00093 | .00214 | -.00034 | .00217 | 49.961 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35479** | **.01013** | **-.01035** | **-.00059** | **-.00206** | **269.90** | **.00127** | **-.00598** | **.00003** | **5.3890** | **-.00212** | **.00145** | **.02527** |
| Stddev | .00030 | .00002 | .00327 | .00002 | .00049 | .05 | .00020 | .00048 | .00091 | .0237 | .00094 | .00429 | .00850 |
| %RSD | .08556 | .14891 | 31.633 | 2.8549 | 23.967 | .01925 | 15.926 | 8.0556 | 2897.2 | .43911 | 44.114 | 295.99 | 33.637 |
| #1 | .35458 | .01012 | -.01266 | -.00058 | -.00171 | 269.87 | .00112 | -.00564 | -.00061 | 5.4057 | -.00146 | .00449 | .01926 |
| #2 | .35501 | .01014 | -.00803 | -.00060 | -.00241 | 269.94 | .00141 | -.00632 | .00068 | 5.3722 | -.00279 | -.00159 | .03128 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **.00032** | **5.2687** | **.00308** | **-.00221** | **10.429** | **.00018** | **.00358** | **-.03785** |
| Stddev | .00031 | .00002 | .0084 | .00008 | .00081 | .002 | .00030 | .00050 | .00055 |
| %RSD | 33.650 | 4.7969 | .15872 | 2.6178 | 36.466 | .02014 | 163.99 | 13.915 | 1.4438 |
| #1 | .00113 | .00031 | 5.2628 | .00303 | -.00279 | 10.430 | -.00003 | .00322 | -.03747 |
| #2 | .00070 | .00033 | 5.2746 | .00314 | -.00164 | 10.427 | .00039 | .00393 | -.03824 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5983.5** | **77323.** | **5363.7** |
| Stddev | 2.5 | 84. | 11.8 |
| %RSD | .04171 | .10882 | .22058 |
| #1 | 5981.7 | 77383. | 5355.4 |
| #2 | 5985.2 | 77264. | 5372.1 |

Sample Name: CCV-2050339 Acquired: 5/15/2013 12:42:16 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54937** | **.51357** | **1.0549** | **.51721** | **.53960** | **.49429** | **-.00169** | **5.2763** | **.52695** | **.53068** | **.51666** | **.52425** |
| Stddev | .00075 | .00125 | .0024 | .00399 | .00852 | .00642 | .00007 | .0268 | .00317 | .00314 | .00274 | .00018 |
| %RSD | .13658 | .24410 | .22540 | .77236 | 1.5794 | 1.2988 | 4.3727 | .50724 | .60191 | .59165 | .53007 | .03372 |
| #1 | .54990 | .51445 | 1.0565 | .52004 | .54563 | .49883 | -.00174 | 5.2953 | .52919 | .53290 | .51860 | .52437 |
| #2 | .54884 | .51268 | 1.0532 | .51439 | .53358 | .48975 | -.00164 | 5.2574 | .52470 | .52846 | .51473 | .52412 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5139** | **54.415** | **1.0878** | **21.966** | **.54304** | **.51316** | F **6.4049** | **.52599** | **1.0289** | **1.0505** | **.06150** | **1.0549** |
| Stddev | .0069 | .833 | .0120 | .028 | .00043 | .00117 | .1177 | .00370 | .0023 | .0014 | .03097 | .0062 |
| %RSD | .27583 | 1.5307 | 1.1064 | .12632 | .07950 | .22830 | 1.8379 | .70383 | .22080 | .13196 | 50.356 | .58933 |
| #1 | 2.5188 | 55.004 | 1.0963 | 21.985 | .54274 | .51399 | 6.4882 | .52861 | 1.0272 | 1.0515 | .03960 | 1.0593 |
| #2 | 2.5090 | 53.826 | 1.0793 | 21.946 | .54335 | .51233 | 6.3217 | .52337 | 1.0305 | 1.0496 | .08340 | 1.0505 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0389** | **5.1810** | **1.0284** | **.51895** | **.00230** | **.53046** | **1.0201** | **.04084** | **.52975** | F **.56178** | **.51214** |
| Stddev | .0000 | .0358 | .0044 | .00943 | .00096 | .00079 | .0005 | .00242 | .00106 | .00021 | .00315 |
| %RSD | .00151 | .69118 | .42465 | 1.8176 | 41.702 | .14962 | .05019 | 5.9239 | .20070 | .03804 | .61507 |
| #1 | 1.0389 | 5.2063 | 1.0315 | .52562 | .00162 | .52990 | 1.0204 | .04255 | .53051 | .56163 | .50992 |
| #2 | 1.0389 | 5.1556 | 1.0253 | .51228 | .00298 | .53102 | 1.0197 | .03912 | .52900 | .56193 | .51437 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .50000 | |
| Range | | | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6092.1** | **78325.** | **5413.1** |
| Stddev | 33.4 | 37. | 63.7 |
| %RSD | .54897 | .04772 | 1.1761 |
| #1 | 6068.5 | 78298. | 5368.1 |
| #2 | 6115.8 | 78351. | 5458.1 |

Sample Name: CCB Acquired: 5/15/2013 12:44:29 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00074** | **.00176** | **.00082** | F **-.00512** | **.00056** | **.00011** | **-.00225** | **.01298** | **.00005** | **.00032** | **-.00001** |
| Stddev | .00020 | .00041 | .00140 | .00006 | .00041 | .00010 | .00139 | .00223 | .00006 | .00009 | .00007 |
| %RSD | 26.609 | 23.531 | 170.92 | 1.0943 | 73.104 | 90.472 | 62.026 | 17.177 | 128.06 | 29.412 | 836.08 |
| #1 | -.00087 | .00205 | -.00017 | -.00516 | .00027 | .00017 | -.00126 | .01140 | .00009 | .00039 | -.00006 |
| #2 | -.00060 | .00147 | .00182 | -.00508 | .00086 | .00004 | -.00323 | .01455 | .00000 | .00025 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00972** | **.17434** | F **.01034** | **.00841** | **.00010** | **.00003** | F **1.1882** | **.00005** | F **-.01024** | **.00053** |
| Stddev | .00006 | .00031 | .09363 | .00121 | .00653 | .00004 | .00028 | .0375 | .00004 | .00176 | .00004 |
| %RSD | 107.60 | 3.1643 | 53.705 | 11.750 | 77.619 | 41.542 | 805.48 | 3.1572 | 83.864 | 17.242 | 8.2790 |
| #1 | .00001 | .00950 | .24055 | .00948 | .01303 | .00007 | -.00016 | 1.2147 | .00008 | -.00899 | .00050 |
| #2 | .00010 | .00993 | .10814 | .01120 | .00379 | .00013 | .00023 | 1.1616 | .00002 | -.01148 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .00522 | | | | .10000 | | .01000 | |
| Low Limit | | | | -.00522 | | | | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04035** | **-.00067** | **-.00034** | **.01654** | **-.00028** | **.00030** | **-.00251** | W **.00093** | **-.00070** | **.03471** | **-.00043** |
| Stddev | .00460 | .00218 | .00135 | .00542 | .00028 | .00006 | .00368 | .00031 | .00013 | .00324 | .00022 |
| %RSD | 11.413 | 324.00 | 398.36 | 32.750 | 99.406 | 19.725 | 146.47 | 33.675 | 19.057 | 9.3329 | 52.094 |
| #1 | .04360 | -.00221 | -.00129 | .02038 | -.00047 | .00025 | .00009 | .00115 | -.00080 | .03242 | -.00058 |
| #2 | .03709 | .00087 | .00061 | .01271 | -.00008 | .00034 | -.00511 | .00071 | -.00061 | .03700 | -.00027 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00060 | | | |
| Low Limit | | | | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00292** | **.00006** |
| Stddev | .00012 | .00016 |
| %RSD | 3.9739 | 257.97 |
| #1 | .00284 | .00017 |
| #2 | .00300 | -.00005 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6117.8** | **79255.** | **5383.2** |
| Stddev | 12.0 | 424. | 17.5 |
| %RSD | .19669 | .53521 | .32436 |
| #1 | 6109.3 | 78955. | 5370.9 |
| #2 | 6126.3 | 79555. | 5395.6 |

Sample Name: CCVL2049857 Acquired: 5/15/2013 12:46:59 Type: QC
Method: 6500_026(v9) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01030** | **.09911** | **.01478** | **.09308** | **.01127** | **.00092** | **.10611** | **.20577** | **.00512** | **.01089** | **.01016** |
| Stddev | .00021 | .00135 | .00118 | .00027 | .00025 | .00004 | .00091 | .00263 | .00007 | .00043 | .00007 |
| %RSD | 2.0189 | 1.3633 | 7.9540 | .28830 | 2.2496 | 4.8286 | .85854 | 1.2764 | 1.4168 | 3.9195 | .66050 |
| #1 | .01015 | .09815 | .01395 | .09289 | .01145 | .00095 | .10676 | .20392 | .00507 | .01059 | .01021 |
| #2 | .01045 | .10007 | .01562 | .09327 | .01110 | .00089 | .10547 | .20763 | .00517 | .01119 | .01011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01487** | **.10053** | **3.3314** | F **.01922** | **.21594** | **.01077** | **.01979** | F **1.9509** | **.04200** | **2.9696** | **.00989** |
| Stddev | .00031 | .00030 | .0560 | .00146 | .00121 | .00002 | .00009 | .0199 | .00022 | .0189 | .00110 |
| %RSD | 2.1072 | .30078 | 1.6812 | 7.6092 | .56246 | .22237 | .43828 | 1.0194 | .53474 | .63648 | 11.111 |
| #1 | .01509 | .10074 | 3.3710 | .01818 | .21680 | .01075 | .01985 | 1.9650 | .04184 | 2.9562 | .01067 |
| #2 | .01464 | .10031 | 3.2918 | .02025 | .21509 | .01079 | .01973 | 1.9368 | .04216 | 2.9830 | .00911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02111** | **.00968** | **.01622** | **.50948** | **.09972** | **.01017** | **.01624** | **.01032** | **.01412** | F **.08003** | **.01063** |
| Stddev | .00290 | .00199 | .00309 | .01517 | .00113 | .00009 | .00311 | .00015 | .00045 | .03113 | .00068 |
| %RSD | 13.731 | 20.551 | 19.028 | 2.9777 | 1.1339 | .86978 | 19.146 | 1.4780 | 3.2121 | 38.903 | 6.3709 |
| #1 | .01906 | .01108 | .01840 | .49876 | .09892 | .01024 | .01404 | .01042 | .01380 | .10204 | .01111 |
| #2 | .02316 | .00827 | .01404 | .52021 | .10052 | .01011 | .01844 | .01021 | .01444 | .05801 | .01015 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02499** | **.01670** |
| Stddev | .00016 | .00174 |
| %RSD | .62160 | 10.403 |
| #1 | .02488 | .01793 |
| #2 | .02510 | .01547 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6124.0** | **80678.** | **5473.0** |
| Stddev | 50.8 | 607. | 1.3 |
| %RSD | .83017 | .75202 | .02414 |
| #1 | 6160.0 | 80249. | 5472.1 |
| #2 | 6088.1 | 81107. | 5474.0 |

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# *ICP Data Review Checklist*

| | | |
|---|---|---|
| **TALS BATCH NUMBER:** 174300, 174301, 174302, 174303, 174408 | | **Earliest due date:** 5/14/13 |
| **Run Date:** 5/14/13 | **Analyst:** HEB | **Instrument:** 26 |
| **QC programs/Methods Run:** 200.7, 6010B, 6010C, DoD v4.1, A4 | | |

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < 1/2 RL or CRDL (CLP) or < 2.2x MDL 200.7 ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | ✓ | | | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | ✓ | | | ✓ |
| 5. Serial dilution done per prep batch (or per SDG for CLP)? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP, DOD & AFCEE only)? NCM Whether needed for DODV3, AFCEE 4.0, 6010c? | ✓ | | | ✓ |
| **B. Calibration/Instrument Run QC** | | | | |
| 1. ICV/CCV analyzed at appropriate frequency and within control limits ? (**6010B**: CLP = 90 - 110%; **200.7:** ICV = 95 - 105%, CCV 90-110%) If not in control, was the ICV or CCV reanalyzed twice to show return to control as per NELAP? | ✓ | | | ✓ |
| 2. ICB/CCB analyzed at appropriate frequency and <1/2RL or < 2X MDL ( DOD V3,AFCEE 4.0)? Was it less than the MDLV (6010C) | ✓ | | | ✓ |
| 3. High Standard (HIGH) reanalyzed before samples and recovered within QC limits? (+-5%) | ✓ | | | ✓ |
| 4. RL STD run and recovered within QC limits ? (± 50% for non-CLP, ± 20% for DoD V3 / AFCEE 4.0 / USACE) | ✓ | | | ✓ |
| 5. Was the LLICV/LLCCV analyzed at appropriate frequency for 6010C and within control (+-30 % or +-20%) | ✓ | | | ✓ |
| 6. ICSA/ICSAB run at required frequency and within SOP limits? (ICSA < 2X MDL AFCEE 4.0, DOD V3 or <RL std work or <MDLV 6010C)) | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. For 6010B, were samples with concentrations > the linear range for any parameter diluted and reanalyzed? For 200.7, were samples with concentrations within 90% of the linear range diluted and reanalyzed? | ✓ ✓ | | | ✓ |
| 2. Are all reported results bracketed by in control QC? | | | | ✓ |
| **D. Other** | ✓ | | | |
| 1. Are all nonconformances documented appropriately? | | | | ✓ |
| 2. Calculations checked for errors? | ✓ | | | ✓ |
| 3. Transcriptions checked for errors? (Example: Are dilution factors that are entered into the sequence log correct?) | ✓ | | | ✓ |
| 4. All client/project specific requirements met? | ✓ | | | ✓ |
| 5. Date/time of analysis verified as correct? | ✓ | | | ✓ |
| 6. PDF attached, verified uncorrupted? | ✓ | | | ✓ |

**Analyst:** Heide Brown **Date:** 5/15/13

**Comments:**

**2nd Level Reviewer:** James Collins **Date:** 5/15/13

**Comments:**

Sample Name: ICIS Acquired: 5/16/2013 10:31:38 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00287** | **.00041** | **-.03632** | **-.00082** | **.00166** | **.02015** | **.00051** | **-.00115** | **.00979** | **.00087** | **-.00073** | **-.00158** |
| Stddev | .00011 | .00001 | .00117 | .00034 | .00015 | .00043 | .00056 | .00007 | .00076 | .00048 | .00012 | .00012 |
| %RSD | 3.8330 | 3.1220 | 3.2256 | 41.450 | 9.1301 | 2.1127 | 110.77 | 6.3163 | 7.8042 | 54.955 | 16.243 | 7.8515 |
| #1 | -.00295 | .00040 | -.03549 | -.00106 | .00155 | .02045 | .00091 | -.00120 | .00925 | .00053 | -.00065 | -.00167 |
| #2 | -.00279 | .00042 | -.03715 | -.00058 | .00176 | .01985 | .00011 | -.00110 | .01034 | .00121 | -.00082 | -.00149 |

| Elem | Cu3247 | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00217** | **.00104** | **.00307** | **.00546** | **.01084** | **-.00008** | **-.00007** | **.00034** | **.04096** | **-.01484** | **-.00125** | **-.00006** |
| Stddev | .00029 | .00023 | .00063 | .00200 | .00004 | .00005 | .00006 | .00003 | .00029 | .00082 | .00006 | .00009 |
| %RSD | 13.490 | 21.788 | 20.563 | 36.655 | .40373 | 57.556 | 80.982 | 9.0221 | .71172 | 5.5580 | 4.5187 | 161.81 |
| #1 | .00238 | .00088 | .00263 | .00404 | .01081 | -.00005 | -.00003 | .00037 | .04116 | -.01543 | -.00129 | .00001 |
| #2 | .00196 | .00120 | .00352 | .00687 | .01087 | -.00011 | -.00011 | .00032 | .04075 | -.01426 | -.00121 | -.00012 |

| Elem | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00137** | **.00137** | **-.00028** | **-.00007** | **.00149** | **-.00010** | **-.00169** | **-.00003** | **-.00030** | **-.00062** | **.00061** | **.00064** |
| Stddev | .00014 | .00002 | .00023 | .00039 | .00045 | .00000 | .00085 | .00008 | .00013 | .00005 | .00020 | .00003 |
| %RSD | 10.248 | 1.4352 | 80.729 | 547.41 | 30.123 | .59589 | 50.202 | 266.44 | 42.309 | 7.7461 | 33.428 | 4.9922 |
| #1 | .00127 | .00138 | -.00045 | -.00034 | .00117 | -.00010 | -.00229 | .00003 | -.00021 | -.00059 | .00075 | .00062 |
| #2 | .00147 | .00135 | -.00012 | .00020 | .00180 | -.00010 | -.00109 | -.00008 | -.00039 | -.00066 | .00046 | .00067 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **-.00000** | **-.00396** |
| Stddev | .00000 | .00098 |
| %RSD | 2356.6 | 24.842 |
| #1 | -.00000 | -.00466 |
| #2 | .00000 | -.00326 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4990.3** | **62590.** | **3720.5** |
| Stddev | 4.0 | 144. | 3.2 |
| %RSD | .08024 | .23038 | .08588 |
| #1 | 4987.5 | 62488. | 3722.8 |
| #2 | 4993.1 | 62692. | 3718.3 |

Sample Name: IC1 Acquired: 5/16/2013 10:34:09 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.22358** | **.27844** | **.13954** | **.34546** | **4.3604** | **7.9156** | **2.1801** | **1.7189** | **.94636** | **1.1920** | **.29453** | **.78143** | **5.8568** |
| Stddev | .00021 | .00036 | .00016 | .00054 | .0201 | .0182 | .0086 | .0037 | .00006 | .0007 | .00051 | .00278 | .0138 |
| %RSD | .09425 | .12872 | .11344 | .15518 | .46004 | .22968 | .39337 | .21704 | .00677 | .05722 | .17301 | .35547 | .23622 |
| #1 | .22373 | .27819 | .13965 | .34509 | 4.3462 | 7.9028 | 2.1741 | 1.7162 | .94632 | 1.1915 | .29489 | .77946 | 5.8470 |
| #2 | .22343 | .27870 | .13943 | .34584 | 4.3746 | 7.9285 | 2.1862 | 1.7215 | .94641 | 1.1925 | .29417 | .78339 | 5.8665 |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2.6233** | **.83275** | **1.1224** | **.62609** | **1.9988** | **.80046** | **.12008** | **.50049** | **.23245** | **.11803** | **.44996** | **.31517** | **8.6510** |
| Stddev | .0138 | .00090 | .0005 | .00009 | .0033 | .00046 | .00023 | .00072 | .00044 | .00009 | .00285 | .00031 | .0311 |
| %RSD | .52550 | .10834 | .04837 | .01489 | .16521 | .05765 | .18911 | .14405 | .19047 | .07239 | .63316 | .09696 | .35948 |
| #1 | 2.6136 | .83339 | 1.1228 | .62603 | 1.9965 | .80013 | .11992 | .50100 | .23214 | .11797 | .44794 | .31496 | 8.6290 |
| #2 | 2.6331 | .83211 | 1.1220 | .62616 | 2.0012 | .80079 | .12024 | .49998 | .23276 | .11809 | .45197 | .31539 | 8.6730 |

| Elem | Ti3349 | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.31140** | **.23759** | **.20450** | **.03976** | **.37632** |
| Stddev | .00008 | .00026 | .00036 | .00003 | .00129 |
| %RSD | .02549 | .11015 | .17631 | .07106 | .34372 |
| #1 | .31146 | .23740 | .20476 | .03974 | .37541 |
| #2 | .31134 | .23777 | .20425 | .03978 | .37724 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4927.7** | **61422.** | **3718.9** |
| Stddev | 8.5 | 7. | 14.8 |
| %RSD | .17150 | .01193 | .39803 |
| #1 | 4921.7 | 61416. | 3729.4 |
| #2 | 4933.7 | 61427. | 3708.4 |

Sample Name: IC2 Acquired: 5/16/2013 10:36:23 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5.6418** | **.25177** | **.66449** | **3.0675** | **.40591** | **.46974** | **.09371** |
| Stddev | .0023 | .00106 | .00018 | .0075 | .00189 | .00032 | .00008 |
| %RSD | .04041 | .42232 | .02669 | .24436 | .46520 | .06744 | .08254 |
| #1 | 5.6402 | .25102 | .66461 | 3.0728 | .40457 | .46951 | .09366 |
| #2 | 5.6434 | .25253 | .66436 | 3.0622 | .40724 | .46996 | .09377 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4985.9** | **62433.** | **3816.9** |
| Stddev | 13.1 | 528. | 4.2 |
| %RSD | .26360 | .84637 | .11115 |
| #1 | 4976.6 | 62060. | 3819.9 |
| #2 | 4995.2 | 62807. | 3813.9 |

Sample Name: S1-2048691 Acquired: 5/16/2013 10:38:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0072** | **1.0044** | **1.9992** | **1.0062** | **.99561** | **.99337** | **-.00059** | **9.9985** | **1.0024** | **1.0041** | **.99863** | **.99770** |
| Stddev | .0005 | .0017 | .0012 | .0009 | .00995 | .00982 | .00266 | .0761 | .0008 | .0001 | .00100 | .00050 |
| %RSD | .05229 | .17131 | .05939 | .09313 | .99962 | .98840 | 447.57 | .76157 | .07532 | .01322 | .09965 | .04969 |
| #1 | 1.0076 | 1.0032 | 2.0000 | 1.0055 | 1.0027 | 1.0003 | .00129 | 10.052 | 1.0018 | 1.0042 | .99793 | .99806 |
| #2 | 1.0068 | 1.0057 | 1.9983 | 1.0068 | .98858 | .98643 | -.00247 | 9.9447 | 1.0029 | 1.0040 | .99934 | .99735 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.9936** | **100.15** | **2.0007** | **39.818** | **.99958** | **1.0000** | **10.019** | F **11.116** | **.99997** | **2.0054** | **2.0082** | **-.00478** |
| Stddev | .0014 | .99 | .0123 | .019 | .00141 | .0001 | .093 | .258 | .00096 | .0063 | .0019 | .00273 |
| %RSD | .02878 | .99200 | .61573 | .04757 | .14078 | .00602 | .92804 | 2.3225 | .09550 | .31337 | .09241 | 57.029 |
| #1 | 4.9926 | 100.85 | 2.0094 | 39.832 | 1.0006 | .99998 | 10.085 | 10.933 | 1.0006 | 2.0010 | 2.0069 | -.00671 |
| #2 | 4.9946 | 99.447 | 1.9920 | 39.805 | .99858 | 1.0001 | 9.9531 | 11.298 | .99929 | 2.0099 | 2.0095 | -.00285 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None |
| Value | | | | | | | | 10.000 | | | | |
| Range | | | | | | | | 5.0000% | | | | |

| Elem | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0097** | **2.0057** | **9.9488** | **1.9946** | **1.0047** | **.00870** | **1.0002** | **2.0006** | **-.01274** | **.99513** | **.99289** | **.99514** |
| Stddev | .0051 | .0057 | .0378 | .0016 | .0076 | .00056 | .0010 | .0109 | .01242 | .00268 | .00219 | .00474 |
| %RSD | .25534 | .28245 | .37964 | .08188 | .75226 | 6.4076 | .09952 | .54689 | 97.447 | .26913 | .22075 | .47590 |
| #1 | 2.0061 | 2.0017 | 9.9221 | 1.9935 | 1.0100 | .00831 | 1.0009 | 1.9929 | -.02152 | .99702 | .99444 | .99849 |
| #2 | 2.0133 | 2.0097 | 9.9755 | 1.9958 | .99934 | .00910 | .99952 | 2.0084 | -.00396 | .99323 | .99134 | .99179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5089.0** | **62868.** | **3834.8** |
| Stddev | 14.9 | 312. | 35.1 |
| %RSD | .29204 | .49702 | .91471 |
| #1 | 5078.4 | 62647. | 3810.0 |
| #2 | 5099.5 | 63089. | 3859.6 |

Sample Name: S2-2048692 Acquired: 5/16/2013 10:41:07 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **100.64** | **.00169** | **.00340** | **.00081** | **-.00001** | **1.9975** | **.00304** | **-.00144** | **.00380** | **-.00023** | **.00168** | **100.02** |
| Stddev | .00027 | .09 | .00111 | .00018 | .00048 | .00003 | .0100 | .00472 | .00012 | .00043 | .00017 | .00016 | .18 |
| %RSD | 21.926 | .09025 | 65.426 | 5.3905 | 58.777 | 272.54 | .50254 | 155.29 | 8.1968 | 11.427 | 74.803 | 9.4347 | .18155 |
| #1 | .00143 | 100.58 | .00248 | .00327 | .00047 | .00001 | 1.9904 | .00638 | -.00152 | .00349 | -.00035 | .00180 | 100.14 |
| #2 | .00105 | 100.70 | .00091 | .00353 | .00115 | -.00003 | 2.0046 | -.00030 | -.00136 | .00410 | -.00011 | .00157 | 99.887 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10988** | **.00460** | **.02203** | **-.00003** | **-.00367** | **501.64** | **.00185** | **.01176** | **.00208** | **10.049** | **-.00016** | **.01218** | **.01339** |
| Stddev | .03669 | .00350 | .00410 | .00007 | .00035 | .37 | .00025 | .00113 | .00040 | .007 | .00016 | .00145 | .01938 |
| %RSD | 33.393 | 76.119 | 18.615 | 272.37 | 9.4433 | .07328 | 13.799 | 9.6158 | 19.391 | .07392 | 96.840 | 11.922 | 144.71 |
| #1 | .08394 | .00212 | .02493 | .00003 | -.00343 | 501.38 | .00203 | .01256 | .00179 | 10.043 | -.00027 | .01116 | .02710 |
| #2 | .13583 | .00707 | .01913 | -.00008 | -.00392 | 501.90 | .00167 | .01096 | .00236 | 10.054 | -.00005 | .01321 | -.00031 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00179** | **.00068** | **9.9887** | **.00454** | **-.00421** | **20.043** | **-.00099** | **.00367** | **-.06963** |
| Stddev | .00159 | .00011 | .0313 | .00041 | .00056 | .038 | .00081 | .00062 | .00047 |
| %RSD | 88.964 | 15.623 | .31320 | 9.1024 | 13.322 | .18837 | 81.248 | 17.006 | .68154 |
| #1 | .00291 | .00076 | 9.9666 | .00425 | -.00461 | 20.016 | -.00042 | .00323 | -.06997 |
| #2 | .00066 | .00061 | 10.011 | .00484 | -.00381 | 20.070 | -.00156 | .00411 | -.06930 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5091.5** | **63418.** | **3901.8** |
| Stddev | 3.2 | 88. | 3.8 |
| %RSD | .06337 | .13860 | .09699 |
| #1 | 5089.3 | 63480. | 3904.4 |
| #2 | 5093.8 | 63356. | 3899.1 |

Sample Name: ICVH-2050069 Acquired: 5/16/2013 10:44:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **39.173** | **.00259** | **.00051** | **.00248** | **-.00002** | **.49832** | **-.00244** | **.00013** | **.00153** | **.00054** | **.00075** | **78.253** |
| Stddev | .00053 | .254 | .00053 | .00004 | .00023 | .00003 | .00402 | .00315 | .00003 | .00023 | .00016 | .00001 | .109 |
| %RSD | 52.362 | .64867 | 20.299 | 7.0354 | 9.0960 | 207.09 | .80690 | 129.01 | 19.268 | 15.346 | 29.420 | 1.8072 | .13920 |
| #1 | .00064 | 38.993 | .00222 | .00048 | .00264 | -.00004 | .50116 | -.00021 | .00012 | .00170 | .00066 | .00074 | 78.330 |
| #2 | .00138 | 39.353 | .00296 | .00053 | .00232 | .00001 | .49548 | -.00467 | .00015 | .00136 | .00043 | .00076 | 78.176 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02509** | **.00046** | **-.01053** | **.00052** | **-.00181** | **41.168** | **.00114** | **.00091** | **.00141** | **3.8274** | **-.00196** | **.00511** | **.01120** |
| Stddev | .03726 | .00038 | .00064 | .00004 | .00010 | .261 | .00002 | .00034 | .00040 | .0088 | .00235 | .00168 | .01142 |
| %RSD | 148.52 | 81.457 | 6.0864 | 7.3301 | 5.5857 | .63376 | 1.7420 | 37.013 | 28.162 | .22874 | 119.73 | 32.799 | 101.95 |
| #1 | .05143 | .00020 | -.01098 | .00050 | -.00188 | 41.353 | .00113 | .00115 | .00113 | 3.8336 | -.00030 | .00392 | .00313 |
| #2 | -.00126 | .00073 | -.01007 | .00055 | -.00174 | 40.984 | .00116 | .00067 | .00169 | 3.8212 | -.00362 | .00629 | .01927 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **.00009** | **2.9275** | **.00101** | **-.00141** | **4.9982** | **-.00058** | **.00367** | **-.02002** |
| Stddev | .00021 | .00007 | .0016 | .00008 | .00056 | .0026 | .00004 | .00006 | .00149 |
| %RSD | 30.261 | 73.020 | .05516 | 8.3607 | 39.943 | .05136 | 6.0707 | 1.7128 | 7.4442 |
| #1 | .00086 | .00014 | 2.9264 | .00107 | -.00101 | 5.0000 | -.00056 | .00372 | -.02108 |
| #2 | .00056 | .00005 | 2.9287 | .00095 | -.00180 | 4.9964 | -.00061 | .00363 | -.01897 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5272.8** | **66623.** | **4087.4** |
| Stddev | 28.3 | 86. | 42.8 |
| %RSD | .53617 | .12839 | 1.0478 |
| #1 | 5292.8 | 66562. | 4117.7 |
| #2 | 5252.8 | 66683. | 4057.1 |

Sample Name: ICV-2050070 Acquired: 5/16/2013 10:46:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25085** | **.24823** | **.23932** | **.25094** | **.24818** | F **.23598** | **.00021** | **1.9814** | **.24978** | **.24932** | **.24678** | **.24084** |
| Stddev | .00080 | .00079 | .00061 | .00019 | .00071 | .00156 | .00312 | .0033 | .00011 | .00014 | .00012 | .00081 |
| %RSD | .31741 | .31989 | .25612 | .07731 | .28445 | .66075 | 1467.0 | .16831 | .04600 | .05757 | .04970 | .33623 |
| #1 | .25142 | .24766 | .23888 | .25081 | .24868 | .23708 | .00242 | 1.9838 | .24969 | .24922 | .24686 | .24141 |
| #2 | .25029 | .24879 | .23975 | .25108 | .24768 | .23487 | -.00199 | 1.9790 | .24986 | .24942 | .24669 | .24026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .25000 | | | | | | |
| Range | | | | | | -5.0000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25079** | **19.844** | **.25095** | **9.7081** | **.24462** | **.24325** | **1.9576** | **.24842** | **1.9370** | **.25119** | **-.01895** | **.24788** |
| Stddev | .00298 | .015 | .00200 | .0318 | .00094 | .00038 | .0038 | .00021 | .0063 | .00137 | .00132 | .00064 |
| %RSD | 1.1894 | .07335 | .79856 | .32702 | .38401 | .15747 | .19449 | .08402 | .32546 | .54483 | 6.9627 | .25765 |
| #1 | .25290 | 19.854 | .25237 | 9.7306 | .24528 | .24352 | 1.9549 | .24857 | 1.9326 | .25216 | -.01989 | .24743 |
| #2 | .24868 | 19.833 | .24954 | 9.6857 | .24395 | .24298 | 1.9603 | .24827 | 1.9415 | .25022 | -.01802 | .24833 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49786** | **2.0086** | **.48626** | **.24860** | **.00134** | **.24040** | **.49763** | **-.00028** | **.23876** | **.24188** | F **.23679** |
| Stddev | .00136 | .0120 | .00001 | .00089 | .00080 | .00078 | .00092 | .00203 | .00169 | .00027 | .00210 |
| %RSD | .27416 | .59767 | .00111 | .35656 | 59.909 | .32469 | .18392 | 713.48 | .70919 | .11049 | .88738 |
| #1 | .49882 | 2.0171 | .48626 | .24923 | .00191 | .24095 | .49827 | .00115 | .23996 | .24169 | .23828 |
| #2 | .49689 | 2.0001 | .48625 | .24797 | .00077 | .23985 | .49698 | -.00172 | .23756 | .24207 | .23530 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | | .25000 |
| Range | | | | | | | | | | | -5.0000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5396.9** | **68769.** | **4148.9** |
| Stddev | 12.2 | 48. | 25.7 |
| %RSD | .22691 | .07046 | .61885 |
| #1 | 5405.5 | 68735. | 4130.8 |
| #2 | 5388.2 | 68804. | 4167.1 |

Sample Name: ICVL2055043 Acquired: 5/16/2013 10:49:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01112** | **.10049** | **.01783** | **.09941** | **.00990** | **.00086** | **.10171** | **.20250** | **.00505** | **.01050** | **.01020** |
| Stddev | .00036 | .00030 | .00253 | .00095 | .00015 | .00003 | .00075 | .00277 | .00011 | .00003 | .00017 |
| %RSD | 3.2494 | .30323 | 14.199 | .95478 | 1.4932 | 3.9736 | .73713 | 1.3670 | 2.1978 | .29419 | 1.6851 |
| #1 | .01137 | .10070 | .01962 | .09874 | .01001 | .00089 | .10224 | .20446 | .00513 | .01053 | .01007 |
| #2 | .01086 | .10027 | .01604 | .10008 | .00980 | .00084 | .10118 | .20054 | .00498 | .01048 | .01032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01438** | **.09959** | **3.0408** | W **.00700** | **.20457** | **.01003** | **.01889** | **.99953** | **.04056** | **2.8837** | **.00956** |
| Stddev | .00001 | .00475 | .0069 | .00180 | .00071 | .00000 | .00025 | .00787 | .00004 | .0062 | .00181 |
| %RSD | .07695 | 4.7651 | .22734 | 25.703 | .34931 | .03688 | 1.3311 | .78775 | .10145 | .21562 | 18.937 |
| #1 | .01439 | .10295 | 3.0359 | .00573 | .20406 | .01002 | .01871 | 1.0051 | .04059 | 2.8793 | .01083 |
| #2 | .01437 | .09623 | 3.0457 | .00827 | .20507 | .01003 | .01906 | .99397 | .04053 | 2.8881 | .00828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02229** | **.00916** | **.01621** | **.48810** | **.09835** | **.01003** | **.01573** | **.00939** | **.01290** | F **.01923** | **.00868** |
| Stddev | .00299 | .00091 | .00174 | .00368 | .00093 | .00011 | .00050 | .00001 | .00061 | .03285 | .00016 |
| %RSD | 13.413 | 9.9344 | 10.763 | .75312 | .94225 | 1.0803 | 3.2001 | .10267 | 4.7402 | 170.84 | 1.8272 |
| #1 | -.02017 | .00980 | .01744 | .49070 | .09769 | .01011 | .01537 | .00940 | .01247 | -.00400 | .00857 |
| #2 | -.02440 | .00851 | .01498 | .48550 | .09900 | .00995 | .01608 | .00938 | .01333 | .04246 | .00880 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02231** | **.01492** |
| Stddev | .00068 | .00133 |
| %RSD | 3.0471 | 8.9347 |
| #1 | .02279 | .01586 |
| #2 | .02183 | .01397 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5447.2** | **68645.** | **4157.7** |
| Stddev | 8.8 | 213. | 16.2 |
| %RSD | .16137 | .31080 | .38978 |
| #1 | 5441.0 | 68796. | 4146.2 |
| #2 | 5453.4 | 68495. | 4169.1 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 10:51:45 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00136** | **49.849** | **.00216** | **.00084** | **-.00007** | **-.00010** | **.98975** | **-.00350** | **-.00057** | **.00190** | **.00009** | **-.00012** | **49.269** |
| Stddev | .00018 | .018 | .00101 | .00036 | .00000 | .00014 | .00154 | .00108 | .00015 | .00006 | .00013 | .00002 | .005 |
| %RSD | 12.939 | .03606 | 46.946 | 43.189 | 4.6259 | 131.34 | .15557 | 30.934 | 26.281 | 3.2465 | 135.23 | 17.022 | .00915 |
| #1 | .00123 | 49.861 | .00144 | .00058 | -.00007 | -.00001 | .99084 | -.00273 | -.00067 | .00194 | .00000 | -.00013 | 49.266 |
| #2 | .00148 | 49.836 | .00287 | .00109 | -.00007 | -.00020 | .98867 | -.00427 | -.00046 | .00186 | .00018 | -.00010 | 49.272 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00723** | **-.00218** | **.00941** | **-.00012** | **-.00217** | **248.18** | **.00109** | **.00455** | **.00187** | **4.8647** | **-.00133** | **.00143** | **-.01642** |
| Stddev | .02110 | .00273 | .00068 | .00006 | .00001 | .78 | .00036 | .00220 | .00167 | .0177 | .00004 | .00205 | .00755 |
| %RSD | 292.05 | 125.18 | 7.2184 | 50.442 | .52717 | .31578 | 33.343 | 48.299 | 89.501 | .36463 | 2.8963 | 143.13 | 45.979 |
| #1 | -.02215 | -.00411 | .00893 | -.00016 | -.00217 | 248.73 | .00135 | .00611 | .00305 | 4.8522 | -.00130 | .00288 | -.01108 |
| #2 | .00770 | -.00025 | .00989 | -.00007 | -.00218 | 247.62 | .00084 | .00300 | .00069 | 4.8772 | -.00136 | -.00002 | -.02176 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.00050** | **4.9793** | **.00206** | **-.00223** | **9.9537** | **-.00130** | **.00262** | **-.04023** |
| Stddev | .00000 | .00011 | .0143 | .00023 | .00161 | .0282 | .00032 | .00006 | .00109 |
| %RSD | .29957 | 21.226 | .28749 | 11.086 | 72.229 | .28375 | 24.573 | 2.1213 | 2.7183 |
| #1 | .00102 | .00043 | 4.9692 | .00190 | -.00337 | 9.9337 | -.00152 | .00266 | -.03946 |
| #2 | .00102 | .00058 | 4.9894 | .00222 | -.00109 | 9.9736 | -.00107 | .00258 | -.04100 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5269.4** | **66375.** | **4103.6** |
| Stddev | 18.6 | 269. | 6.8 |
| %RSD | .35266 | .40567 | .16615 |
| #1 | 5256.3 | 66566. | 4098.8 |
| #2 | 5282.5 | 66185. | 4108.5 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 10:54:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49713** | **.48175** | **.96361** | **.49757** | **.48773** | **.47963** | **-.00113** | **4.8822** | **.49289** | **.50019** | **.48857** | **.48895** | **2.4044** |
| Stddev | .00283 | .00016 | .00033 | .00125 | .00428 | .00286 | .00310 | .0104 | .00001 | .00161 | .00039 | .00098 | .0008 |
| %RSD | .56943 | .03265 | .03453 | .25162 | .87690 | .59536 | 275.28 | .21271 | .00303 | .32272 | .07959 | .20055 | .03404 |
| #1 | .49913 | .48186 | .96385 | .49669 | .49076 | .48165 | -.00332 | 4.8896 | .49290 | .49905 | .48884 | .48964 | 2.4038 |
| #2 | .49513 | .48164 | .96338 | .49846 | .48471 | .47762 | .00107 | 4.8749 | .49287 | .50133 | .48829 | .48826 | 2.4050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.763** | **.98021** | **19.340** | **.49027** | **.48394** | **4.7524** | **.49335** | **.97286** | **.99467** | **-.02449** | **.98296** | **.98960** | **4.8140** |
| Stddev | .640 | .00910 | .066 | .00211 | .00134 | .0432 | .00091 | .00452 | .00333 | .00170 | .00378 | .00556 | .0181 |
| %RSD | 1.3127 | .92825 | .34115 | .43016 | .27772 | .90836 | .18374 | .46412 | .33469 | 6.9333 | .38462 | .56136 | .37515 |
| #1 | 49.216 | .98664 | 19.387 | .49176 | .48299 | 4.7830 | .49271 | .96966 | .99231 | -.02569 | .98028 | .98568 | 4.8012 |
| #2 | 48.310 | .97378 | 19.293 | .48878 | .48489 | 4.7219 | .49399 | .97605 | .99702 | -.02329 | .98563 | .99353 | 4.8268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96474** | **.49677** | **.00375** | **.48536** | **.97968** | **-.00415** | **.48249** | **.47891** | **.48114** |
| Stddev | .00540 | .00423 | .00173 | .00296 | .00705 | .00951 | .00074 | .00286 | .00133 |
| %RSD | .55972 | .85207 | 46.223 | .61062 | .71951 | 229.24 | .15314 | .59670 | .27675 |
| #1 | .96092 | .49976 | .00498 | .48745 | .97470 | .00258 | .48302 | .48093 | .48208 |
| #2 | .96855 | .49378 | .00253 | .48326 | .98466 | -.01088 | .48197 | .47689 | .48019 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5454.0** | **68530.** | **4224.5** |
| Stddev | 24.9 | 156. | 47.1 |
| %RSD | .45569 | .22736 | 1.1148 |
| #1 | 5436.4 | 68420. | 4191.2 |
| #2 | 5471.5 | 68640. | 4257.8 |

Sample Name: ICB Acquired: 5/16/2013 10:56:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00159** | **-.00016** | **.00271** | **.00041** | **-.00055** | **.00001** | **-.00076** | **.00084** | **.00009** | **.00017** | **.00007** |
| Stddev | .00008 | .00016 | .00071 | .00021 | .00020 | .00001 | .00086 | .00252 | .00026 | .00015 | .00000 |
| %RSD | 5.1223 | 101.36 | 26.236 | 51.822 | 36.379 | 129.26 | 113.99 | 299.34 | 276.16 | 90.800 | 1.4069 |
| #1 | .00165 | -.00027 | .00322 | .00055 | -.00069 | .00000 | -.00137 | .00262 | -.00009 | .00028 | .00007 |
| #2 | .00153 | -.00005 | .00221 | .00026 | -.00041 | .00002 | -.00015 | -.00094 | .00028 | .00006 | .00007 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **-.00538** | **-.01387** | **-.00058** | **.00064** | **-.00008** | **-.00029** | **-.01279** | **-.00037** | **-.00029** | **.00090** |
| Stddev | .00017 | .00259 | .04618 | .00037 | .00034 | .00001 | .00008 | .01851 | .00008 | .00035 | .00022 |
| %RSD | 24.070 | 48.102 | 332.91 | 63.740 | 52.589 | 15.755 | 28.917 | 144.71 | 20.401 | 121.46 | 24.218 |
| #1 | -.00058 | -.00355 | .01878 | -.00084 | .00040 | -.00007 | -.00035 | -.02589 | -.00032 | -.00053 | .00074 |
| #2 | -.00082 | -.00722 | -.04653 | -.00032 | .00088 | -.00009 | -.00023 | .00030 | -.00042 | -.00004 | .00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02530** | **-.00083** | **.00282** | **.01607** | **-.00019** | **-.00015** | **.00020** | **-.00029** | **-.00128** | **-.01769** | **-.00095** |
| Stddev | .00374 | .00041 | .00121 | .01065 | .00044 | .00007 | .00273 | .00040 | .00040 | .00311 | .00020 |
| %RSD | 14.784 | 50.212 | 43.083 | 66.284 | 235.67 | 47.302 | 1351.1 | 138.13 | 31.270 | 17.597 | 20.933 |
| #1 | -.02795 | -.00053 | .00196 | .02360 | -.00050 | -.00010 | -.00173 | -.00057 | -.00156 | -.01549 | -.00081 |
| #2 | -.02266 | -.00112 | .00368 | .00854 | .00012 | -.00020 | .00214 | -.00001 | -.00100 | -.01989 | -.00109 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00232** | **-.00044** |
| Stddev | .00006 | .00041 |
| %RSD | 2.5540 | 93.605 |
| #1 | .00236 | -.00015 |
| #2 | .00228 | -.00073 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5496.0** | **69429.** | **4204.7** |
| Stddev | 8.8 | 254. | 8.5 |
| %RSD | .15934 | .36516 | .20170 |
| #1 | 5489.8 | 69250. | 4210.7 |
| #2 | 5502.2 | 69608. | 4198.7 |

Sample Name: CRI-2055044 Acquired: 5/16/2013 10:58:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01123** | **.10147** | **.01159** | **.10161** | **.00454** | **.00093** | **.11342** | **.20154** | **.00511** | **.00564** | **.01022** |
| Stddev | .00010 | .00005 | .00368 | .00062 | .00024 | .00003 | .00207 | .00873 | .00000 | .00005 | .00006 |
| %RSD | .87501 | .05286 | 31.802 | .61154 | 5.3851 | 2.7093 | 1.8216 | 4.3328 | .04462 | .94475 | .59640 |
| #1 | .01130 | .10151 | .01419 | .10205 | .00471 | .00091 | .11196 | .19537 | .00510 | .00567 | .01018 |
| #2 | .01116 | .10143 | .00898 | .10117 | .00436 | .00094 | .11488 | .20772 | .00511 | .00560 | .01026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00936** | **.02734** | **.96214** | **.00959** | **.20444** | **.00300** | **.00916** | **.93648** | **.01049** | **.99309** | W **.00380** |
| Stddev | .00050 | .00157 | .00583 | .00107 | .00192 | .00009 | .00033 | .01791 | .00006 | .00083 | .00166 |
| %RSD | 5.3410 | 5.7458 | .60601 | 11.118 | .93789 | 2.8817 | 3.6318 | 1.9121 | .57250 | .08396 | 43.595 |
| #1 | .00972 | .02845 | .95801 | .01034 | .20580 | .00307 | .00892 | .92382 | .01053 | .99368 | .00263 |
| #2 | .00901 | .02623 | .96626 | .00883 | .20309 | .00294 | .00940 | .94914 | .01045 | .99250 | .00497 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | | | | .00300 |
| Range | | | | | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07276** | W **.00697** | **.01081** | **.50139** | **.02043** | **.00524** | **.01023** | **.01012** | **.00810** | **.06042** | **.00852** |
| Stddev | .00083 | .00018 | .00049 | .01762 | .00046 | .00005 | .00086 | .00031 | .00034 | .02754 | .00012 |
| %RSD | 1.1432 | 2.6025 | 4.5042 | 3.5142 | 2.2695 | .96291 | 8.3987 | 3.1018 | 4.2569 | 45.581 | 1.3793 |
| #1 | .07217 | .00710 | .01046 | .48893 | .02010 | .00527 | .00962 | .00990 | .00834 | .07990 | .00844 |
| #2 | .07335 | .00684 | .01115 | .51385 | .02075 | .00520 | .01084 | .01034 | .00786 | .04095 | .00860 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | -20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.01228** | **.01135** |
| Stddev | .00018 | .00186 |
| %RSD | 1.4514 | 16.345 |
| #1 | .01240 | .01004 |
| #2 | .01215 | .01266 |
| Check ? | Chk Warn | Chk Pass |
| Value | .01000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5619.4** | **71281.** | **4339.5** |
| Stddev | 5.1 | 29. | 15.2 |
| %RSD | .09148 | .04075 | .34962 |
| #1 | 5623.1 | 71261. | 4350.3 |
| #2 | 5615.8 | 71302. | 4328.8 |

Sample Name: ICSA-2050073 Acquired: 5/16/2013 11:01:33 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **494.45** | **.00094** | **-.00032** | W **-.00071** | **-.00019** | **-.00772** | **458.44** | W **.00079** | **.00018** | F **.00214** |
| Stddev | .00066 | 2.86 | .00420 | .00016 | .00024 | .00011 | .00005 | 2.15 | .00007 | .00003 | .00017 |
| %RSD | 299.08 | .57895 | 448.15 | 50.951 | 33.207 | 58.785 | .69771 | .46814 | 8.8965 | 18.277 | 7.8300 |
| #1 | .00068 | 496.48 | -.00203 | -.00043 | -.00055 | -.00011 | -.00776 | 459.96 | .00083 | .00016 | .00202 |
| #2 | -.00024 | 492.43 | .00391 | -.00020 | -.00088 | -.00027 | -.00768 | 456.93 | .00074 | .00020 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Fail |
| High Limit | | | | | .00058 | | | | .00045 | | .00123 |
| Low Limit | | | | | -.00058 | | | | -.00045 | | -.00132 |

| Elem | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00383** | **187.22** | **.02152** | **.00041** | **493.35** | F **.00375** | **-.00217** | W **.16100** | W **.00239** | **-.00206** | **.00031** |
| Stddev | .00039 | 2.28 | .03692 | .00003 | 1.15 | .00003 | .00016 | .00974 | .00021 | .00114 | .00283 |
| %RSD | 10.305 | 1.2188 | 171.55 | 6.2327 | .23281 | .78138 | 7.5364 | 6.0508 | 8.8006 | 55.202 | 915.75 |
| #1 | .00355 | 188.83 | -.00458 | .00043 | 494.16 | .00373 | -.00206 | .15411 | .00254 | -.00125 | .00231 |
| #2 | .00411 | 185.60 | .04762 | .00039 | 492.54 | .00377 | -.00229 | .16789 | .00224 | -.00286 | -.00169 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass |
| High Limit | .00272 | | | | | .00051 | | .09160 | .00129 | | |
| Low Limit | -.00272 | | | | | -.00051 | | -.09160 | -.00129 | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04706** | **.00130** | W **.00525** | **-.00940** | **.00072** | F **.00206** | F **.03316** | W **-.00102** | **-.00199** | **-.02331** | F **.00258** |
| Stddev | .00300 | .00150 | .00012 | .01274 | .00040 | .00008 | .00035 | .00004 | .00013 | .04435 | .00070 |
| %RSD | 6.3677 | 115.58 | 2.3375 | 135.49 | 55.700 | 3.9741 | 1.0654 | 4.3179 | 6.3735 | 190.25 | 27.241 |
| #1 | -.04494 | .00024 | .00516 | -.00039 | .00100 | .00212 | .03341 | -.00099 | -.00208 | -.05467 | .00208 |
| #2 | -.04918 | .00236 | .00533 | -.01841 | .00044 | .00200 | .03291 | -.00106 | -.00190 | .00805 | .00308 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Warn | Chk Pass | None | Chk Fail |
| High Limit | | | .00486 | | | .00060 | .01000 | .00060 | | | .00222 |
| Low Limit | | | -.00486 | | | -.00060 | -.01000 | -.00060 | | | -.00222 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.01090** | **.00206** |
| Stddev | .00017 | .00081 |
| %RSD | 1.5702 | 39.228 |
| #1 | .01078 | .00263 |
| #2 | .01102 | .00149 |
| Check ? | Chk Fail | Chk Pass |
| High Limit | .00906 | |
| Low Limit | -.00906 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4983.5** | **62187.** | **4158.9** |
| Stddev | 1.1 | 138. | 18.0 |
| %RSD | .02144 | .22210 | .43245 |
| #1 | 4982.7 | 62089. | 4146.2 |
| #2 | 4984.2 | 62284. | 4171.7 |

Sample Name: ICSAB-2050074 Acquired: 5/16/2013 11:04:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0968** | **496.56** | **1.9585** | **2.0025** | **.49136** | **.46855** | **1.0211** | **464.15** | **1.0330** | **.48073** | **.48741** | **.53672** | **186.34** |
| Stddev | .0056 | 2.68 | .0065 | .0031 | .00218 | .00082 | .0050 | 6.75 | .0005 | .00024 | .00085 | .00175 | .24 |
| %RSD | .51420 | .53930 | .33371 | .15629 | .44287 | .17557 | .48506 | 1.4536 | .05210 | .04895 | .17472 | .32683 | .12724 |
| #1 | 1.0928 | 494.66 | 1.9631 | 2.0003 | .48982 | .46796 | 1.0176 | 459.38 | 1.0326 | .48057 | .48801 | .53548 | 186.17 |
| #2 | 1.1008 | 498.45 | 1.9539 | 2.0048 | .49290 | .46913 | 1.0246 | 468.92 | 1.0334 | .48090 | .48681 | .53796 | 186.51 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.860** | **.99876** | **491.43** | **.49889** | **.94505** | **50.847** | **.93383** | **1.9656** | **.96143** | **.97533** | **1.0079** | **4.9687** | **9.9239** |
| Stddev | .255 | .00336 | .37 | .00036 | .00128 | .415 | .00056 | .0001 | .00082 | .00007 | .0060 | .0198 | .0723 |
| %RSD | .51136 | .33671 | .07449 | .07177 | .13534 | .81582 | .06042 | .00693 | .08500 | .00740 | .60071 | .39801 | .72830 |
| #1 | 49.679 | .99638 | 491.68 | .49864 | .94596 | 50.554 | .93422 | 1.9655 | .96085 | .97528 | 1.0122 | 4.9827 | 9.8728 |
| #2 | 50.040 | 1.0011 | 491.17 | .49914 | .94415 | 51.141 | .93343 | 1.9657 | .96201 | .97538 | 1.0036 | 4.9547 | 9.9750 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.1246** | **.97779** | **2.0831** | **.99390** | **8.9087** | **-.00790** | **.49809** | **.94681** | **.92183** |
| Stddev | .0210 | .00603 | .0054 | .00231 | .0010 | .00715 | .00012 | .00333 | .00476 |
| %RSD | .23024 | .61706 | .25815 | .23220 | .01083 | 90.503 | .02398 | .35165 | .51685 |
| #1 | 9.1395 | .97352 | 2.0793 | .99227 | 8.9094 | -.01295 | .49817 | .94446 | .91846 |
| #2 | 9.1097 | .98206 | 2.0869 | .99554 | 8.9080 | -.00284 | .49800 | .94917 | .92519 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4923.1** | **61449.** | **4101.2** |
| Stddev | 3.5 | 115. | 16.7 |
| %RSD | .07176 | .18730 | .40701 |
| #1 | 4920.6 | 61531. | 4113.0 |
| #2 | 4925.6 | 61368. | 4089.4 |

Sample Name: LRA-2050194 Acquired: 5/16/2013 11:07:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0464** | **-.45175** | **9.6223** | **9.8062** | **12.043** | **.00203** | **.01565** | **-.01593** | **1.9987** | **4.9473** | **9.7793** | **10.019** | **498.65** |
| Stddev | .0010 | .00186 | .0050 | .0176 | .021 | .00001 | .00163 | .00118 | .0056 | .0107 | .0178 | .015 | 1.96 |
| %RSD | .04787 | .41252 | .05222 | .17987 | .17380 | .28779 | 10.434 | 7.4017 | .27988 | .21726 | .18224 | .15311 | .39329 |
| #1 | 2.0471 | -.45307 | 9.6258 | 9.8187 | 12.057 | .00204 | .01680 | -.01509 | 2.0027 | 4.9549 | 9.7919 | 10.030 | 500.04 |
| #2 | 2.0457 | -.45043 | 9.6187 | 9.7938 | 12.028 | .00203 | .01449 | -.01676 | 1.9948 | 4.9397 | 9.7667 | 10.008 | 497.26 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.35469** | **-.00294** | **-.13542** | **9.5450** | **9.5726** | **.01617** | **9.8695** | **-.01700** | **10.072** | **-.07463** | **.00363** | **4.9172** | **46.617** |
| Stddev | .00143 | .00169 | .00397 | .0624 | .0191 | .00377 | .0223 | .00247 | .025 | .00250 | .00462 | .0108 | .013 |
| %RSD | .40193 | 57.350 | 2.9348 | .65411 | .19949 | 23.332 | .22639 | 14.534 | .24451 | 3.3519 | 127.22 | .21944 | .02752 |
| #1 | -.35570 | -.00175 | -.13823 | 9.5008 | 9.5861 | .01884 | 9.8853 | -.01526 | 10.089 | -.07286 | .00689 | 4.9248 | 46.608 |
| #2 | -.35368 | -.00414 | -.13261 | 9.5891 | 9.5591 | .01350 | 9.8537 | -.01875 | 10.054 | -.07640 | .00036 | 4.9096 | 46.626 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00781** | **10.054** | **.06805** | **9.6744** | **9.8641** | **.13286** | **9.6561** | **9.3120** | **-.00771** |
| Stddev | .00169 | .001 | .00158 | .0017 | .0120 | .00258 | .0086 | .0022 | .00138 |
| %RSD | 21.625 | .00854 | 2.3238 | .01802 | .12210 | 1.9383 | .08888 | .02387 | 17.916 |
| #1 | .00900 | 10.054 | .06693 | 9.6732 | 9.8726 | .13104 | 9.6622 | 9.3104 | -.00869 |
| #2 | .00661 | 10.053 | .06917 | 9.6756 | 9.8556 | .13468 | 9.6500 | 9.3136 | -.00674 |
| Check ? | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5407.8** | **68857.** | **4204.4** |
| Stddev | 21.1 | 26. | 33.9 |
| %RSD | .39016 | .03787 | .80598 |
| #1 | 5392.9 | 68875. | 4180.4 |
| #2 | 5422.7 | 68838. | 4228.3 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 11:10:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00128** | **49.136** | **.00151** | **.01996** | **.00158** | **-.00007** | **.99762** | **.00329** | **-.00044** | **.00210** | **.00028** | **.00041** | **49.535** |
| Stddev | .00019 | .631 | .00129 | .00278 | .00099 | .00006 | .00249 | .00315 | .00006 | .00015 | .00012 | .00007 | .534 |
| %RSD | 14.868 | 1.2839 | 85.364 | 13.935 | 62.700 | 81.269 | .24950 | 95.959 | 13.472 | 7.0886 | 41.568 | 15.913 | 1.0790 |
| #1 | .00141 | 49.582 | .00242 | .02192 | .00228 | -.00012 | .99938 | .00552 | -.00040 | .00200 | .00036 | .00046 | 49.913 |
| #2 | .00114 | 48.689 | .00060 | .01799 | .00088 | -.00003 | .99586 | .00106 | -.00049 | .00221 | .00020 | .00037 | 49.157 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07616** | **-.00182** | **.00931** | **.00057** | **-.00106** | **246.75** | **.00172** | **.00479** | **.00260** | **4.9118** | **-.00319** | **.00821** | **.07030** |
| Stddev | .00053 | .00034 | .00156 | .00020 | .00026 | 3.20 | .00035 | .00001 | .00074 | .0089 | .00047 | .00291 | .01660 |
| %RSD | .69891 | 18.821 | 16.797 | 34.196 | 24.566 | 1.2950 | 20.148 | .16092 | 28.566 | .18212 | 14.720 | 35.438 | 23.608 |
| #1 | -.07579 | -.00206 | .01042 | .00071 | -.00087 | 249.00 | .00196 | .00479 | .00313 | 4.9182 | -.00352 | .01026 | .08204 |
| #2 | -.07654 | -.00158 | .00820 | .00043 | -.00124 | 244.49 | .00147 | .00480 | .00208 | 4.9055 | -.00286 | .00615 | .05857 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.00203** | **4.9907** | **.00375** | **-.00134** | **9.9885** | **-.00041** | **.00362** | **-.03769** |
| Stddev | .00018 | .00043 | .0072 | .00005 | .00073 | .0055 | .00088 | .00007 | .00298 |
| %RSD | 33.228 | 21.199 | .14415 | 1.3461 | 54.365 | .05457 | 211.37 | 1.7986 | 7.9191 |
| #1 | .00042 | .00233 | 4.9857 | .00378 | -.00083 | 9.9924 | .00020 | .00366 | -.03558 |
| #2 | .00067 | .00172 | 4.9958 | .00371 | -.00186 | 9.9847 | -.00103 | .00357 | -.03980 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5428.1** | **68268.** | **4256.7** |
| Stddev | 27.5 | 6. | 56.3 |
| %RSD | .50745 | .00857 | 1.3232 |
| #1 | 5447.6 | 68273. | 4216.9 |
| #2 | 5408.6 | 68264. | 4296.6 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 11:12:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49701** | **.48601** | **.97537** | **.50612** | **.48683** | **.47828** | **-.00102** | **4.8976** | **.49241** | **.50019** | **.49101** | **.49146** | **2.4069** |
| Stddev | .00082 | .00079 | .00174 | .00052 | .00320 | .00358 | .00193 | .0132 | .00049 | .00160 | .00007 | .00059 | .0050 |
| %RSD | .16504 | .16155 | .17826 | .10188 | .65715 | .74849 | 190.02 | .26921 | .09887 | .32043 | .01334 | .11907 | .20841 |
| #1 | .49759 | .48656 | .97414 | .50649 | .48910 | .48081 | -.00238 | 4.9069 | .49275 | .49906 | .49106 | .49187 | 2.4104 |
| #2 | .49643 | .48545 | .97660 | .50576 | .48457 | .47575 | .00035 | 4.8883 | .49206 | .50133 | .49097 | .49105 | 2.4033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.498** | **.97506** | **19.611** | **.49373** | **.48688** | **4.7346** | **.49714** | **.97279** | **.99711** | **-.03130** | **.97822** | **.98151** | **4.7839** |
| Stddev | .393 | .00381 | .013 | .00051 | .00113 | .0696 | .00113 | .00138 | .00575 | .00139 | .00163 | .00079 | .0314 |
| %RSD | .80937 | .39116 | .06873 | .10254 | .23264 | 1.4691 | .22817 | .14202 | .57683 | 4.4464 | .16615 | .08031 | .65528 |
| #1 | 48.776 | .97776 | 19.620 | .49409 | .48608 | 4.7838 | .49634 | .97181 | .99304 | -.03032 | .97707 | .98095 | 4.7618 |
| #2 | 48.221 | .97236 | 19.601 | .49337 | .48768 | 4.6854 | .49794 | .97376 | 1.0012 | -.03228 | .97937 | .98206 | 4.8061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97382** | **.49287** | **.00330** | **.48923** | **.97889** | **.01675** | **.48771** | **.48714** | **.48139** |
| Stddev | .00094 | .00359 | .00408 | .00019 | .00066 | .00374 | .00068 | .00146 | .00218 |
| %RSD | .09673 | .72879 | 123.72 | .03919 | .06789 | 22.307 | .13885 | .30030 | .45203 |
| #1 | .97316 | .49541 | .00041 | .48910 | .97842 | .01410 | .48723 | .48817 | .47986 |
| #2 | .97449 | .49033 | .00618 | .48937 | .97935 | .01939 | .48819 | .48610 | .48293 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5446.3** | **68360.** | **4245.3** |
| Stddev | .9 | 298. | 34.4 |
| %RSD | .01570 | .43654 | .80921 |
| #1 | 5446.9 | 68149. | 4221.0 |
| #2 | 5445.7 | 68571. | 4269.6 |

Sample Name: CCB Acquired: 5/16/2013 11:14:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00104** | **-.00034** | **.00265** | F **.00759** | **-.00022** | **.00002** | **-.00320** | **.00110** | **.00010** | **.00004** | **.00005** |
| Stddev | .00021 | .00015 | .00065 | .00060 | .00037 | .00010 | .00056 | .00586 | .00003 | .00019 | .00000 |
| %RSD | 20.194 | 44.533 | 24.387 | 7.9360 | 166.50 | 532.73 | 17.374 | 532.51 | 31.852 | 473.44 | 2.4920 |
| #1 | .00118 | -.00045 | .00310 | .00802 | -.00048 | .00009 | -.00281 | .00524 | .00008 | -.00009 | .00005 |
| #2 | .00089 | -.00023 | .00219 | .00717 | .00004 | -.00005 | -.00360 | -.00304 | .00012 | .00017 | .00005 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | | | | | | | |
| Low Limit | -.00093 | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **-.00384** | **-.05184** | W **-.00451** | **.00339** | **-.00007** | **-.00003** | **-.06639** | **-.00009** | **-.00041** | **.00242** |
| Stddev | .00002 | .00191 | .02710 | .00146 | .00187 | .00001 | .00001 | .00276 | .00037 | .00203 | .00031 |
| %RSD | 3.4586 | 49.666 | 52.277 | 32.452 | 55.083 | 12.355 | 24.582 | 4.1532 | 410.19 | 493.24 | 12.800 |
| #1 | -.00049 | -.00249 | -.03268 | -.00347 | .00207 | -.00008 | -.00003 | -.06834 | .00017 | -.00184 | .00264 |
| #2 | -.00052 | -.00519 | -.07101 | -.00554 | .00471 | -.00007 | -.00004 | -.06444 | -.00035 | .00102 | .00220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03415** | **-.00105** | **-.00301** | **-.00432** | **.00041** | **.00007** | **.00223** | **-.00006** | **-.00113** | **-.00819** | **-.00087** |
| Stddev | .00361 | .00205 | .00224 | .00368 | .00045 | .00015 | .00065 | .00027 | .00107 | .03400 | .00057 |
| %RSD | 10.559 | 194.45 | 74.320 | 85.199 | 110.77 | 234.44 | 28.997 | 416.83 | 94.802 | 414.88 | 65.169 |
| #1 | -.03160 | -.00250 | -.00460 | -.00692 | .00009 | -.00004 | .00269 | .00012 | -.00037 | -.03223 | -.00047 |
| #2 | -.03670 | .00039 | -.00143 | -.00172 | .00072 | .00017 | .00177 | -.00025 | -.00188 | .01584 | -.00127 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00238** | W **.00245** |
| Stddev | .00015 | .00254 |
| %RSD | 6.4096 | 103.33 |
| #1 | .00249 | .00066 |
| #2 | .00227 | .00425 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5452.4** | **68981.** | **4153.9** |
| Stddev | .4 | 302. | 37.6 |
| %RSD | .00765 | .43791 | .90411 |
| #1 | 5452.1 | 69195. | 4127.4 |
| #2 | 5452.7 | 68768. | 4180.5 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 11:17:10 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01047** | **.10010** | **.01710** | **.10674** | **.00996** | **.00107** | **.10254** | **.20100** | **.00516** | **.01067** | **.01024** |
| Stddev | .00071 | .00033 | .00122 | .00040 | .00035 | .00008 | .00000 | .00068 | .00025 | .00022 | .00013 |
| %RSD | 6.7507 | .33071 | 7.1453 | .37648 | 3.4676 | 7.0617 | .00326 | .33719 | 4.9047 | 2.0920 | 1.2988 |
| #1 | .01097 | .09986 | .01624 | .10703 | .01020 | .00113 | .10254 | .20052 | .00498 | .01052 | .01033 |
| #2 | .00997 | .10033 | .01797 | .10646 | .00971 | .00102 | .10254 | .20148 | .00534 | .01083 | .01014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01418** | **.09621** | **2.9547** | **.00908** | **.20838** | **.01010** | **.01925** | **.94363** | **.04099** | **2.9150** | W **.01108** |
| Stddev | .00000 | .00474 | .0273 | .00264 | .00436 | .00004 | .00014 | .00115 | .00022 | .0026 | .00006 |
| %RSD | .01331 | 4.9272 | .92546 | 29.023 | 2.0947 | .41248 | .72862 | .12214 | .54054 | .08932 | .50990 |
| #1 | .01418 | .09286 | 2.9741 | .00722 | .20529 | .01013 | .01915 | .94282 | .04083 | 2.9131 | .01104 |
| #2 | .01418 | .09957 | 2.9354 | .01095 | .21147 | .01007 | .01935 | .94445 | .04115 | 2.9168 | .01112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | | | | .00900 |
| Range | | | | | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03567** | **.00857** | **.01544** | **.48717** | **.10010** | **.01022** | **.01701** | **.00939** | **.01524** | W **.04785** | **.00898** |
| Stddev | .00406 | .00275 | .00242 | .01599 | .00105 | .00010 | .00092 | .00046 | .00010 | .02216 | .00019 |
| %RSD | 11.396 | 32.113 | 15.645 | 3.2815 | 1.0514 | .98523 | 5.4065 | 4.8566 | .63229 | 46.316 | 2.1330 |
| #1 | -.03280 | .00662 | .01374 | .47587 | .09936 | .01014 | .01636 | .00907 | .01517 | .03218 | .00911 |
| #2 | -.03855 | .01051 | .01715 | .49848 | .10085 | .01029 | .01766 | .00971 | .01531 | .06352 | .00884 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02234** | **.01288** |
| Stddev | .00024 | .00389 |
| %RSD | 1.0842 | 30.207 |
| #1 | .02251 | .01013 |
| #2 | .02217 | .01563 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5544.1** | **70146.** | **4221.1** |
| Stddev | 2.3 | 28. | 51.1 |
| %RSD | .04203 | .03959 | 1.2109 |
| #1 | 5542.5 | 70126. | 4257.3 |
| #2 | 5545.8 | 70165. | 4185.0 |

Sample Name: CRI Acquired: 5/16/2013 11:19:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **-.00015** | **.00372** | **.00379** | **-.00067** | **-.00003** | **.00245** | **-.00124** | **.00013** |
| Stddev | .00019 | .00020 | .00265 | .00063 | .00041 | .00007 | .00012 | .00190 | .00032 |
| %RSD | 20.394 | 130.30 | 71.141 | 16.527 | 61.901 | 222.98 | 4.8608 | 152.92 | 248.04 |
| #1 | .00081 | -.00029 | .00559 | .00423 | -.00096 | .00002 | .00253 | -.00259 | .00035 |
| #2 | .00109 | -.00001 | .00185 | .00334 | -.00037 | -.00008 | .00237 | .00010 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00013** | **-.00061** | **-.00306** | **-.05369** | **-.00364** | **.00052** | **-.00009** | **-.00024** |
| Stddev | .00005 | .00010 | .00002 | .00167 | .02007 | .00166 | .00108 | .00002 | .00004 |
| %RSD | 37.478 | 79.083 | 2.7227 | 54.496 | 37.381 | 45.655 | 207.59 | 22.595 | 15.546 |
| #1 | .00011 | .00006 | -.00060 | -.00188 | -.06788 | -.00246 | -.00024 | -.00010 | -.00027 |
| #2 | .00018 | .00020 | -.00062 | -.00424 | -.03950 | -.00481 | .00129 | -.00008 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.09203** | **.00017** | **-.00043** | **.00969** | **-.03459** | **.01803** | **.00261** | **-.00248** | **-.00020** |
| Stddev | .00877 | .00018 | .00141 | .00087 | .00081 | .00007 | .00322 | .01676 | .00013 |
| %RSD | 9.5330 | 105.49 | 324.64 | 8.9773 | 2.3338 | .37754 | 123.47 | 675.74 | 65.488 |
| #1 | -.08583 | .00004 | -.00143 | .01031 | -.03516 | .01798 | .00489 | .00937 | -.00029 |
| #2 | -.09823 | .00030 | .00056 | .00908 | -.03402 | .01808 | .00033 | -.01434 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00245** | **-.00038** | **.00015** | **-.02081** | **-.00067** | **.02201** | **.00205** |
| Stddev | .00022 | .00017 | .00035 | .00061 | .00583 | .00040 | .00055 | .00030 |
| %RSD | 177.93 | 7.1099 | 93.429 | 402.57 | 28.012 | 58.955 | 2.5010 | 14.734 |
| #1 | .00027 | .00257 | -.00062 | .00059 | -.01668 | -.00039 | .02240 | .00183 |
| #2 | -.00003 | .00233 | -.00013 | -.00028 | -.02493 | -.00096 | .02163 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5517.9** | **69858.** | **4205.1** |
| Stddev | .6 | 36. | 10.2 |
| %RSD | .01008 | .05123 | .24340 |
| #1 | 5518.3 | 69833. | 4212.3 |
| #2 | 5517.5 | 69883. | 4197.9 |

Sample Name: MB 280-173687/1-A Acquired: 5/16/2013 11:22:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **.00203** | **.00266** | **.00335** | **-.00099** | **.00000** | **.00013** | **.00857** | **.00015** |
| Stddev | .00004 | .00024 | .00028 | .00066 | .00010 | .00001 | .00016 | .00010 | .00020 |
| %RSD | 4.2692 | 11.655 | 10.464 | 19.566 | 9.9815 | 204.79 | 127.93 | 1.1115 | 126.17 |
| #1 | .00085 | .00186 | .00286 | .00381 | -.00106 | -.00000 | .00024 | .00864 | .00029 |
| #2 | .00090 | .00220 | .00247 | .00289 | -.00092 | .00001 | .00001 | .00851 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00012** | **-.00030** | **.00381** | **-.11521** | **-.00276** | **.00426** | **.00008** | **-.00020** |
| Stddev | .00009 | .00029 | .00014 | .00219 | .02500 | .00004 | .00319 | .00002 | .00004 |
| %RSD | 85.502 | 250.05 | 44.736 | 57.632 | 21.699 | 1.4999 | 74.776 | 20.387 | 19.522 |
| #1 | .00004 | .00032 | -.00040 | .00226 | -.13289 | -.00279 | .00201 | .00007 | -.00022 |
| #2 | .00017 | -.00009 | -.00021 | .00536 | -.09753 | -.00273 | .00652 | .00010 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07889** | **.00011** | F **.25899** | **.00167** | **-.03543** | **-.00173** | **.00033** | **.03720** | **.00031** |
| Stddev | .00141 | .00041 | .00113 | .00151 | .00269 | .00010 | .00394 | .01610 | .00057 |
| %RSD | 1.7882 | 370.47 | .43565 | 90.418 | 7.5994 | 5.9571 | 1203.8 | 43.292 | 182.29 |
| #1 | -.07989 | .00040 | .25978 | .00060 | -.03352 | -.00165 | .00311 | .04858 | -.00009 |
| #2 | -.07789 | -.00018 | .25819 | .00274 | -.03733 | -.00180 | -.00246 | .02581 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **-.00079** | **-.00052** | **-.00050** | **.00942** | **-.00078** | **.00230** | **.00104** |
| Stddev | .00014 | .00104 | .00022 | .00038 | .01645 | .00066 | .00006 | .00114 |
| %RSD | 217.16 | 132.46 | 42.989 | 76.055 | 174.61 | 84.950 | 2.5566 | 109.28 |
| #1 | -.00016 | -.00005 | -.00036 | -.00077 | -.00221 | -.00124 | .00234 | .00024 |
| #2 | .00003 | -.00152 | -.00067 | -.00023 | .02106 | -.00031 | .00226 | .00184 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5482.1** | **69512.** | **4196.3** |
| Stddev | 3.9 | 59. | 27.7 |
| %RSD | .07071 | .08462 | .65961 |
| #1 | 5479.3 | 69470. | 4215.8 |
| #2 | 5484.8 | 69554. | 4176.7 |

Sample Name: LCS 280-173687/2-A Acquired: 5/16/2013 11:24:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05330** | **1.9163** | **1.0086** | **1.0389** | **2.0472** | **.05023** | **2.0825** | **49.915** | **.10421** |
| Stddev | .00024 | .0040 | .0054 | .0019 | .0109 | .00004 | .0065 | .181 | .00008 |
| %RSD | .45402 | .20696 | .53926 | .18332 | .53175 | .08004 | .31168 | .36329 | .07815 |
| #1 | .05313 | 1.9191 | 1.0125 | 1.0402 | 2.0395 | .05020 | 2.0871 | 49.787 | .10426 |
| #2 | .05347 | 1.9135 | 1.0048 | 1.0375 | 2.0549 | .05026 | 2.0779 | 50.043 | .10415 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50326** | **.20181** | **.25153** | **.99047** | **51.106** | **1.0137** | **49.832** | **.49992** | **1.0078** |
| Stddev | .00037 | .00062 | .00033 | .00520 | .010 | .0039 | .072 | .00092 | .0033 |
| %RSD | .07345 | .30486 | .12932 | .52469 | .02034 | .38146 | .14373 | .18406 | .32437 |
| #1 | .50299 | .20224 | .25130 | .99414 | 51.114 | 1.0110 | 49.883 | .50058 | 1.0101 |
| #2 | .50352 | .20137 | .25176 | .98679 | 51.099 | 1.0164 | 49.782 | .49927 | 1.0055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.300** | **.49895** | **10.487** | **.50536** | **-.03879** | **.51164** | **2.0373** | **10.125** | **1.9982** |
| Stddev | .350 | .00157 | .033 | .00058 | .00295 | .00287 | .0041 | .019 | .0067 |
| %RSD | .66884 | .31400 | .31284 | .11527 | 7.6027 | .56078 | .20246 | .18879 | .33661 |
| #1 | 52.053 | .50006 | 10.510 | .50495 | -.04088 | .51367 | 2.0344 | 10.139 | 2.0029 |
| #2 | 52.547 | .49784 | 10.464 | .50577 | -.03671 | .50961 | 2.0402 | 10.112 | 1.9934 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0251** | **1.0212** | **.99933** | **2.0225** | **2.1271** | **.50405** | **.49253** | **.49509** |
| Stddev | .0038 | .0038 | .00072 | .0070 | .0328 | .00162 | .00272 | .00235 |
| %RSD | .37121 | .36792 | .07166 | .34848 | 1.5413 | .32120 | .55223 | .47373 |
| #1 | 1.0224 | 1.0238 | .99984 | 2.0275 | 2.1503 | .50519 | .49446 | .49675 |
| #2 | 1.0278 | 1.0185 | .99883 | 2.0175 | 2.1040 | .50290 | .49061 | .49344 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5325.0** | **67264.** | **4141.4** |
| Stddev | 16.0 | 370. | 4.5 |
| %RSD | .30041 | .55013 | .10850 |
| #1 | 5313.7 | 67002. | 4144.6 |
| #2 | 5336.3 | 67525. | 4138.2 |

Sample Name: 280-41903-A-1-B Acquired: 5/16/2013 11:26:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **.00170** | **.00716** | **.01662** | **.02547** | **-.00015** | **-.00389** | **63.003** | **.00031** |
| Stddev | .00079 | .00079 | .00213 | .00060 | .00007 | .00001 | .00127 | .373 | .00002 |
| %RSD | 95.915 | 46.118 | 29.672 | 3.6376 | .26714 | 9.4146 | 32.633 | .59141 | 7.1812 |
| #1 | .00139 | .00226 | .00566 | .01705 | .02552 | -.00016 | -.00299 | 63.267 | .00033 |
| #2 | .00027 | .00115 | .00867 | .01620 | .02542 | -.00014 | -.00478 | 62.740 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00480** | **.00049** | **.00196** | **4.4566** | **1.3588** | **.00067** | **26.638** | **1.1082** | **.00500** |
| Stddev | .00000 | .00006 | .00003 | .0261 | .0227 | .00183 | .020 | .0002 | .00008 |
| %RSD | .02659 | 12.446 | 1.3013 | .58505 | 1.6694 | 273.86 | .07407 | .01491 | 1.6460 |
| #1 | .00480 | .00044 | .00194 | 4.4382 | 1.3427 | -.00063 | 26.652 | 1.1081 | .00494 |
| #2 | .00481 | .00053 | .00197 | 4.4751 | 1.3748 | .00197 | 26.624 | 1.1084 | .00506 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.9442** | **.00294** | **.32580** | **.00222** | **.48015** | **-.00202** | **-.00002** | **10.664** | **-.00015** |
| Stddev | .0093 | .00014 | .00016 | .00211 | .00121 | .00147 | .00137 | .036 | .00030 |
| %RSD | .31599 | 4.6020 | .04851 | 94.946 | .25207 | 72.848 | 5556.2 | .34194 | 195.42 |
| #1 | 2.9508 | .00303 | .32591 | .00073 | .47929 | -.00098 | .00094 | 10.638 | .00006 |
| #2 | 2.9376 | .00284 | .32569 | .00371 | .48101 | -.00307 | -.00099 | 10.690 | -.00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05243** | **.00244** | **.00027** | **-.00164** | **-.03157** | **-.00082** | **.01664** | **.00058** |
| Stddev | .00005 | .00077 | .00049 | .00212 | .02344 | .00013 | .00054 | .00199 |
| %RSD | .09888 | 31.683 | 179.85 | 129.43 | 74.248 | 15.448 | 3.2700 | 344.61 |
| #1 | .05246 | .00299 | .00062 | -.00314 | -.04814 | -.00090 | .01626 | -.00083 |
| #2 | .05239 | .00190 | -.00007 | -.00014 | -.01500 | -.00073 | .01703 | .00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5363.4** | **67933.** | **4150.0** |
| Stddev | 8.9 | 52. | 1.3 |
| %RSD | .16659 | .07725 | .03076 |
| #1 | 5357.1 | 67896. | 4150.9 |
| #2 | 5369.7 | 67970. | 4149.1 |

Sample Name: sd 280-41903-A-1-B@5 Acquired: 5/16/2013 11:29:14 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00063** | **.00498** | **.00549** | **.00502** | **-.00001** | **-.00108** | **13.593** | **.00008** |
| Stddev | .00072 | .00016 | .00198 | .00005 | .00026 | .00005 | .00108 | .011 | .00016 |
| %RSD | 138.03 | 25.725 | 39.701 | .86320 | 5.2460 | 719.53 | 100.10 | .08121 | 198.00 |
| #1 | .00001 | .00075 | .00358 | .00552 | .00520 | .00003 | -.00185 | 13.586 | .00020 |
| #2 | .00103 | .00052 | .00638 | .00545 | .00483 | -.00004 | -.00032 | 13.601 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **.00004** | **-.00024** | **.96808** | **.22626** | **-.00273** | **5.7658** | **.23970** | **.00098** |
| Stddev | .00013 | .00004 | .00044 | .01418 | .00747 | .00065 | .0116 | .00006 | .00014 |
| %RSD | 13.540 | 115.10 | 182.28 | 1.4652 | 3.3024 | 23.807 | .20122 | .02360 | 13.816 |
| #1 | .00086 | .00007 | .00007 | .95805 | .22097 | -.00227 | 5.7740 | .23966 | .00088 |
| #2 | .00104 | .00001 | -.00055 | .97811 | .23154 | -.00319 | 5.7576 | .23974 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55809** | **.00049** | **.06864** | **.00248** | **.06583** | **-.00070** | **.00237** | **2.2466** | **-.00039** |
| Stddev | .00976 | .00038 | .00188 | .00141 | .00186 | .00256 | .00019 | .0092 | .00053 |
| %RSD | 1.7488 | 78.416 | 2.7418 | 56.895 | 2.8200 | 366.35 | 7.9563 | .41010 | 137.35 |
| #1 | .55119 | .00076 | .06997 | .00348 | .06714 | -.00251 | .00250 | 2.2531 | -.00077 |
| #2 | .56500 | .00022 | .06731 | .00148 | .06452 | .00111 | .00223 | 2.2401 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01122** | **.00192** | **-.00013** | **-.00101** | **-.02493** | **-.00053** | **.00659** | **.00172** |
| Stddev | .00008 | .00072 | .00049 | .00160 | .05564 | .00112 | .00047 | .00104 |
| %RSD | .74620 | 37.644 | 382.80 | 157.72 | 223.21 | 210.60 | 7.1909 | 60.556 |
| #1 | .01116 | .00243 | -.00047 | -.00214 | -.06427 | .00026 | .00693 | .00245 |
| #2 | .01128 | .00141 | .00022 | .00012 | .01442 | -.00132 | .00626 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5398.3** | **68104.** | **4168.4** |
| Stddev | .3 | 207. | 18.5 |
| %RSD | .00594 | .30462 | .44367 |
| #1 | 5398.0 | 67957. | 4155.3 |
| #2 | 5398.5 | 68250. | 4181.4 |

Sample Name: 280-41903-A-1-C MS  Acquired: 5/16/2013 11:31:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05359** | **1.7541** | **.95032** | **1.0056** | **1.8980** | **.04587** | **2.0183** | **108.31** | **.09938** |
| Stddev | .00037 | .0036 | .00063 | .0005 | .0041 | .00005 | .0007 | .32 | .00024 |
| %RSD | .68705 | .20417 | .06622 | .05213 | .21495 | .11653 | .03395 | .29845 | .23902 |
| #1 | .05385 | 1.7516 | .94988 | 1.0052 | 1.8951 | .04583 | 2.0178 | 108.08 | .09921 |
| #2 | .05333 | 1.7566 | .95077 | 1.0059 | 1.9009 | .04591 | 2.0188 | 108.54 | .09955 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46693** | **.18517** | **.23455** | **5.2698** | **50.522** | **.96298** | **71.267** | **1.5323** | **.93777** |
| Stddev | .00047 | .00006 | .00022 | .0001 | .142 | .00015 | .121 | .0009 | .00184 |
| %RSD | .09962 | .03096 | .09429 | .00268 | .28086 | .01596 | .16926 | .06152 | .19621 |
| #1 | .46726 | .18513 | .23471 | 5.2699 | 50.422 | .96287 | 71.352 | 1.5330 | .93647 |
| #2 | .46660 | .18522 | .23440 | 5.2697 | 50.623 | .96309 | 71.182 | 1.5316 | .93908 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.021** | **.45806** | **10.064** | **.47646** | **.48170** | **.48516** | **1.9343** | **20.176** | **1.8321** |
| Stddev | .430 | .00023 | .021 | .00032 | .00688 | .00255 | .0147 | .007 | .0090 |
| %RSD | .81026 | .04944 | .20383 | .06796 | 1.4289 | .52492 | .76051 | .03690 | .49081 |
| #1 | 52.717 | .45790 | 10.049 | .47669 | .47684 | .48336 | 1.9239 | 20.181 | 1.8257 |
| #2 | 53.325 | .45822 | 10.078 | .47623 | .48657 | .48696 | 1.9447 | 20.171 | 1.8384 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0063** | **.95349** | **.91895** | **1.9254** | **1.9400** | **.46347** | **.46539** | **.44450** |
| Stddev | .0021 | .00192 | .00139 | .0081 | .0274 | .00217 | .00325 | .00231 |
| %RSD | .20709 | .20087 | .15171 | .42015 | 1.4151 | .46840 | .69844 | .51965 |
| #1 | 1.0048 | .95485 | .91993 | 1.9196 | 1.9206 | .46500 | .46769 | .44287 |
| #2 | 1.0078 | .95214 | .91796 | 1.9311 | 1.9594 | .46193 | .46309 | .44614 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5221.9** | **65916.** | **4107.6** |
| Stddev | 2.3 | 196. | 6.6 |
| %RSD | .04455 | .29772 | .15991 |
| #1 | 5223.6 | 66055. | 4102.9 |
| #2 | 5220.3 | 65778. | 4112.2 |

Sample Name: 280-41903-A-1-D MSD Acquired: 5/16/2013 11:33:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05614** | **1.9110** | **1.0138** | **1.0676** | **2.0624** | **.05011** | **2.0977** | **117.34** | **.10550** |
| Stddev | .00068 | .0006 | .0020 | .0030 | .0045 | .00014 | .0060 | .34 | .00016 |
| %RSD | 1.2070 | .03163 | .19653 | .27919 | .21844 | .28551 | .28778 | .29354 | .15272 |
| #1 | .05662 | 1.9106 | 1.0153 | 1.0655 | 2.0592 | .05021 | 2.0935 | 117.10 | .10562 |
| #2 | .05566 | 1.9115 | 1.0124 | 1.0697 | 2.0656 | .05001 | 2.1020 | 117.59 | .10539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50844** | **.20236** | **.25642** | **5.7489** | **53.878** | **1.0384** | **77.388** | **1.6598** | **1.0136** |
| Stddev | .00075 | .00007 | .00041 | .0078 | .125 | .0005 | .066 | .0014 | .0018 |
| %RSD | .14654 | .03217 | .16179 | .13515 | .23181 | .04735 | .08464 | .08133 | .18068 |
| #1 | .50897 | .20240 | .25612 | 5.7544 | 53.790 | 1.0380 | 77.434 | 1.6608 | 1.0149 |
| #2 | .50791 | .20231 | .25671 | 5.7434 | 53.966 | 1.0387 | 77.342 | 1.6589 | 1.0123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.321** | **.49873** | **10.774** | **.50602** | **.48915** | **.51862** | **2.0539** | **21.388** | **1.9804** |
| Stddev | .110 | .00012 | .012 | .00173 | .00544 | .00102 | .0025 | .077 | .0009 |
| %RSD | .19595 | .02369 | .11458 | .34251 | 1.1123 | .19744 | .12391 | .35911 | .04655 |
| #1 | 56.399 | .49865 | 10.765 | .50725 | .49299 | .51790 | 2.0521 | 21.442 | 1.9797 |
| #2 | 56.243 | .49882 | 10.783 | .50480 | .48530 | .51935 | 2.0557 | 21.334 | 1.9810 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0978** | **1.0472** | **1.0055** | **2.0141** | **2.0523** | **.50094** | **.49871** | **.48854** |
| Stddev | .0023 | .0016 | .0006 | .0029 | .0024 | .00018 | .00110 | .00094 |
| %RSD | .21032 | .15303 | .05429 | .14595 | .11583 | .03508 | .22012 | .19242 |
| #1 | 1.0961 | 1.0460 | 1.0059 | 2.0120 | 2.0540 | .50082 | .49949 | .48788 |
| #2 | 1.0994 | 1.0483 | 1.0051 | 2.0161 | 2.0506 | .50107 | .49793 | .48921 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5200.4** | **65689.** | **4081.1** |
| Stddev | 11.1 | 40. | 10.8 |
| %RSD | .21382 | .06068 | .26494 |
| #1 | 5192.5 | 65660. | 4088.8 |
| #2 | 5208.3 | 65717. | 4073.5 |

Sample Name: pds 280-41903-A-1-B  Acquired: 5/16/2013 11:36:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05393** | **.98156** | **.20383** | **.12274** | **.12833** | **.04995** | **-.00506** | **87.724** | **.05258** |
| Stddev | .00020 | .00038 | .00104 | .00057 | .00088 | .00013 | .00041 | .169 | .00007 |
| %RSD | .36360 | .03838 | .50809 | .46218 | .68297 | .26666 | 8.1061 | .19286 | .13713 |
| #1 | .05379 | .98182 | .20456 | .12314 | .12771 | .04985 | -.00477 | 87.844 | .05253 |
| #2 | .05407 | .98129 | .20310 | .12234 | .12895 | .05004 | -.00535 | 87.604 | .05263 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05568** | **.05141** | **.05282** | **5.8205** | **22.283** | **.10357** | **47.748** | **1.2282** | **.05593** |
| Stddev | .00028 | .00038 | .00027 | .0149 | .034 | .00047 | .059 | .0013 | .00011 |
| %RSD | .50839 | .74508 | .51763 | .25527 | .15188 | .45654 | .12318 | .10823 | .20469 |
| #1 | .05588 | .05168 | .05301 | 5.8100 | 22.307 | .10390 | 47.789 | 1.2291 | .05601 |
| #2 | .05548 | .05114 | .05263 | 5.8311 | 22.259 | .10323 | 47.706 | 1.2273 | .05585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.125** | **.05250** | **2.4315** | **.10429** | **.49861** | **.10370** | **.20507** | **16.336** | **.09901** |
| Stddev | .331 | .00062 | .0034 | .00124 | .00335 | .00018 | .00493 | .068 | .00011 |
| %RSD | 1.3178 | 1.1729 | .13986 | 1.1856 | .67259 | .17513 | 2.4053 | .41829 | .10817 |
| #1 | 25.359 | .05294 | 2.4339 | .10517 | .50098 | .10383 | .20855 | 16.288 | .09908 |
| #2 | 24.891 | .05207 | 2.4291 | .10342 | .49624 | .10357 | .20158 | 16.384 | .09893 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11031** | **.21487** | **.05137** | **.20239** | **.52577** | **.04959** | **.21618** | **.04591** |
| Stddev | .00057 | .00112 | .00008 | .00031 | .00625 | .00015 | .00059 | .00208 |
| %RSD | .51593 | .51942 | .16233 | .15073 | 1.1895 | .30758 | .27420 | 4.5220 |
| #1 | .10991 | .21408 | .05131 | .20218 | .52135 | .04970 | .21576 | .04737 |
| #2 | .11071 | .21566 | .05143 | .20261 | .53019 | .04948 | .21660 | .04444 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5293.8** | **66347.** | **4112.3** |
| Stddev | 70.0 | 66. | 12.9 |
| %RSD | 1.3229 | .09902 | .31248 |
| #1 | 5244.3 | 66393. | 4103.2 |
| #2 | 5343.4 | 66301. | 4121.4 |

Sample Name: 280-41948-A-2-B Acquired: 5/16/2013 11:38:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **.00924** | **.00100** | **.01754** | **.00848** | **-.00003** | **-.00489** | **50.505** | **.00004** |
| Stddev | .00016 | .00059 | .00145 | .00017 | .00058 | .00004 | .00022 | .330 | .00019 |
| %RSD | 11.719 | 6.3397 | 145.75 | .98562 | 6.8194 | 117.42 | 4.5488 | .65388 | 518.52 |
| #1 | .00146 | .00883 | -.00003 | .01766 | .00808 | -.00001 | -.00473 | 50.739 | .00017 |
| #2 | .00123 | .00966 | .00202 | .01742 | .00889 | -.00006 | -.00505 | 50.272 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.00191** | **-.00025** | **.06619** | **1.1742** | **.00031** | **25.321** | **.00098** | **.00216** |
| Stddev | .00026 | .00016 | .00028 | .00179 | .0384 | .00417 | .009 | .00006 | .00015 |
| %RSD | 198.91 | 8.5205 | 109.97 | 2.6990 | 3.2671 | 1335.3 | .03608 | 6.0931 | 6.8134 |
| #1 | -.00031 | .00180 | -.00006 | .06493 | 1.1471 | .00326 | 25.315 | .00094 | .00227 |
| #2 | .00005 | .00203 | -.00045 | .06745 | 1.2013 | -.00264 | 25.328 | .00102 | .00206 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2991** | **.00057** | **.29928** | **.00251** | **3.0993** | **-.00033** | **.00297** | **6.6229** | **.00090** |
| Stddev | .0029 | .00038 | .00222 | .00057 | .0019 | .00205 | .00000 | .0614 | .00004 |
| %RSD | .12522 | 67.397 | .74121 | 22.641 | .06300 | 616.94 | .15395 | .92679 | 4.2467 |
| #1 | 2.2971 | .00084 | .30085 | .00292 | 3.0979 | -.00178 | .00296 | 6.6663 | .00087 |
| #2 | 2.3011 | .00030 | .29771 | .00211 | 3.1007 | .00112 | .00297 | 6.5795 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03727** | **.00032** | **.00059** | **-.00075** | **-.01370** | **-.00067** | **.02906** | **.00059** |
| Stddev | .00005 | .00035 | .00039 | .00125 | .01137 | .00012 | .00021 | .00005 |
| %RSD | .12595 | 110.75 | 65.494 | 165.50 | 82.952 | 17.594 | .71945 | 8.8073 |
| #1 | .03723 | .00057 | .00086 | -.00164 | -.02174 | -.00059 | .02921 | .00063 |
| #2 | .03730 | .00007 | .00032 | .00013 | -.00566 | -.00076 | .02891 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5399.8** | **68016.** | **4206.0** |
| Stddev | 8.2 | 380. | 31.7 |
| %RSD | .15142 | .55875 | .75334 |
| #1 | 5394.0 | 67747. | 4183.6 |
| #2 | 5405.5 | 68285. | 4228.4 |

Sample Name: 280-42003-B-2-A Acquired: 5/16/2013 11:40:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **2.0284** | **.00283** | **2.0105** | **.07051** | **.00034** | **-.00434** | **12.282** | **.00011** |
| Stddev | .00021 | .0023 | .00234 | .0022 | .00050 | .00009 | .00043 | .001 | .00006 |
| %RSD | 19.352 | .11223 | 82.813 | .10757 | .71198 | 26.189 | 9.9248 | .00517 | 58.844 |
| #1 | .00125 | 2.0268 | .00449 | 2.0090 | .07087 | .00041 | -.00465 | 12.282 | .00015 |
| #2 | .00095 | 2.0300 | .00117 | 2.0121 | .07016 | .00028 | -.00404 | 12.281 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **.00210** | **.00092** | **1.7322** | **2.5437** | **.02780** | **12.196** | **.05921** | **.00251** |
| Stddev | .00020 | .00001 | .00029 | .0115 | .0321 | .00182 | .023 | .00003 | .00013 |
| %RSD | 18.837 | .66943 | 31.809 | .66637 | 1.2617 | 6.5464 | .18952 | .05341 | 5.1175 |
| #1 | .00090 | .00209 | .00112 | 1.7403 | 2.5210 | .02909 | 12.213 | .05918 | .00260 |
| #2 | .00117 | .00211 | .00071 | 1.7240 | 2.5664 | .02651 | 12.180 | .05923 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **264.57** | **.00241** | **.51097** | **.00383** | **28.360** | **-.00103** | **.00018** | **8.7048** | **.00104** |
| Stddev | .14 | .00017 | .00101 | .00164 | .018 | .00279 | .00335 | .0384 | .00045 |
| %RSD | .05175 | 7.1629 | .19725 | 42.734 | .06179 | 269.78 | 1835.0 | .44130 | 43.293 |
| #1 | 264.67 | .00229 | .51026 | .00499 | 28.372 | -.00301 | .00255 | 8.7319 | .00072 |
| #2 | 264.47 | .00253 | .51168 | .00267 | 28.348 | .00094 | -.00218 | 8.6776 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62873** | **.00534** | **.01805** | **-.00144** | **-.00625** | **.00099** | **.01031** | **.00313** |
| Stddev | .00153 | .00037 | .00002 | .00171 | .02454 | .00076 | .00015 | .00362 |
| %RSD | .24351 | 6.9324 | .10509 | 119.35 | 392.68 | 76.116 | 1.4709 | 115.48 |
| #1 | .62765 | .00560 | .01803 | -.00265 | .01110 | .00046 | .01042 | .00057 |
| #2 | .62982 | .00508 | .01806 | -.00022 | -.02360 | .00153 | .01020 | .00569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5378.1** | **67625.** | **4244.3** |
| Stddev | 16.7 | 414. | 16.2 |
| %RSD | .31100 | .61184 | .38171 |
| #1 | 5390.0 | 67332. | 4255.7 |
| #2 | 5366.3 | 67917. | 4232.8 |

Sample Name: 280-42003-B-3-A Acquired: 5/16/2013 11:43:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **1.8013** | **.00472** | **2.0411** | **.06724** | **.00035** | **-.00280** | **12.529** | **.00009** |
| Stddev | .00039 | .0127 | .00235 | .0071 | .00007 | .00021 | .00102 | .086 | .00003 |
| %RSD | 49.978 | .70428 | 49.714 | .34629 | .09701 | 61.424 | 36.602 | .68618 | 32.143 |
| #1 | .00107 | 1.7924 | .00638 | 2.0361 | .06728 | .00050 | -.00207 | 12.590 | .00007 |
| #2 | .00051 | 1.8103 | .00306 | 2.0461 | .06719 | .00020 | -.00352 | 12.468 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **.00188** | **.00051** | **1.5515** | **2.5964** | **.02887** | **12.389** | **.05924** | **.00298** |
| Stddev | .00017 | .00030 | .00024 | .0084 | .0239 | .00029 | .009 | .00002 | .00003 |
| %RSD | 17.296 | 15.763 | 46.592 | .54047 | .91880 | 1.0050 | .07407 | .04144 | 1.1578 |
| #1 | .00087 | .00208 | .00034 | 1.5574 | 2.6132 | .02867 | 12.382 | .05923 | .00296 |
| #2 | .00112 | .00167 | .00068 | 1.5455 | 2.5795 | .02908 | 12.395 | .05926 | .00301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **269.02** | **.00170** | **.50544** | **.00397** | **28.652** | **-.00215** | **-.00050** | **8.2045** | **.00015** |
| Stddev | 1.98 | .00044 | .00550 | .00015 | .065 | .00120 | .00332 | .0440 | .00059 |
| %RSD | .73509 | 26.168 | 1.0889 | 3.7912 | .22844 | 55.845 | 663.88 | .53610 | 382.60 |
| #1 | 270.42 | .00138 | .50154 | .00386 | 28.605 | -.00130 | -.00285 | 8.2356 | -.00026 |
| #2 | 267.62 | .00201 | .50933 | .00407 | 28.698 | -.00300 | .00185 | 8.1734 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64063** | **.00452** | **.01555** | **-.00094** | **-.01002** | **.00025** | **.00948** | **.00284** |
| Stddev | .00289 | .00047 | .00011 | .00093 | .02178 | .00070 | .00018 | .00085 |
| %RSD | .45065 | 10.397 | .70608 | 99.644 | 217.45 | 282.92 | 1.9002 | 29.918 |
| #1 | .64267 | .00419 | .01562 | -.00159 | -.02542 | -.00025 | .00935 | .00224 |
| #2 | .63858 | .00486 | .01547 | -.00028 | .00539 | .00074 | .00961 | .00345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5370.8** | **67858.** | **4197.5** |
| Stddev | .5 | 43. | 47.4 |
| %RSD | .00860 | .06307 | 1.1300 |
| #1 | 5371.1 | 67888. | 4164.0 |
| #2 | 5370.4 | 67828. | 4231.1 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 11:45:45 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **50.395** | **-.00003** | **.00614** | **.00016** | **-.00014** | **1.0064** | **.00347** | **-.00058** | **.00201** | **-.00014** | **-.00073** | **50.289** |
| Stddev | .00074 | .457 | .00373 | .00079 | .00011 | .00013 | .0052 | .00328 | .00001 | .00030 | .00023 | .00016 | .116 |
| %RSD | 491.03 | .90646 | 11956. | 12.809 | 72.257 | 96.379 | .51369 | 94.415 | 1.5977 | 14.760 | 164.40 | 22.377 | .23060 |
| #1 | -.00037 | 50.072 | -.00267 | .00670 | .00008 | -.00023 | 1.0028 | .00579 | -.00057 | .00222 | .00002 | -.00061 | 50.371 |
| #2 | .00067 | 50.718 | .00260 | .00558 | .00024 | -.00004 | 1.0101 | .00115 | -.00058 | .00180 | -.00031 | -.00084 | 50.207 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07424** | **-.00230** | **.00845** | **-.00012** | **-.00212** | **251.98** | **.00113** | **.01129** | **.00191** | **4.9592** | **-.00137** | **.00169** | **.01616** |
| Stddev | .04169 | .00194 | .00205 | .00006 | .00005 | .92 | .00032 | .00041 | .00019 | .0132 | .00122 | .00148 | .00200 |
| %RSD | 56.152 | 84.477 | 24.309 | 49.547 | 2.2504 | .36388 | 28.444 | 3.6602 | 10.083 | .26597 | 89.010 | 87.815 | 12.362 |
| #1 | -.04476 | -.00367 | .00700 | -.00008 | -.00215 | 251.33 | .00136 | .01158 | .00177 | 4.9499 | -.00223 | .00274 | .01757 |
| #2 | -.10371 | -.00093 | .00990 | -.00016 | -.00208 | 252.63 | .00090 | .01100 | .00205 | 4.9686 | -.00051 | .00064 | .01475 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **.00058** | **5.1310** | **.00303** | **-.00215** | **10.117** | **-.00108** | **.00272** | **-.04687** |
| Stddev | .00050 | .00002 | .0162 | .00012 | .00138 | .068 | .00013 | .00004 | .00125 |
| %RSD | 49.965 | 4.3402 | .31655 | 3.8791 | 64.029 | .67068 | 11.770 | 1.3140 | 2.6683 |
| #1 | .00065 | .00059 | 5.1195 | .00295 | -.00312 | 10.069 | -.00099 | .00275 | -.04598 |
| #2 | .00136 | .00056 | 5.1425 | .00311 | -.00118 | 10.165 | -.00117 | .00269 | -.04775 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5415.5** | **67680.** | **4192.3** |
| Stddev | 16.5 | 47. | 18.4 |
| %RSD | .30503 | .06871 | .43954 |
| #1 | 5403.8 | 67647. | 4205.4 |
| #2 | 5427.2 | 67713. | 4179.3 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 11:48:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50386** | **.50800** | **.97868** | **.51201** | **.49745** | **.48314** | **-.00008** | **4.9195** | **.49947** | **.50601** | **.49331** | **.49215** | **2.4154** |
| Stddev | .00009 | .00080 | .00223 | .00073 | .00001 | .00106 | .00001 | .0009 | .00074 | .00032 | .00004 | .00039 | .0032 |
| %RSD | .01780 | .15800 | .22771 | .14270 | .00126 | .22000 | 16.507 | .01809 | .14844 | .06324 | .00877 | .07936 | .13219 |
| #1 | .50380 | .50743 | .97711 | .51253 | .49746 | .48389 | -.00009 | 4.9189 | .49894 | .50578 | .49334 | .49187 | 2.4176 |
| #2 | .50393 | .50857 | .98026 | .51150 | .49745 | .48239 | -.00007 | 4.9201 | .49999 | .50624 | .49327 | .49242 | 2.4131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.850** | **.98494** | **19.483** | **.49583** | **.48687** | **4.8626** | **.49770** | **.99133** | **1.0053** | **-.03743** | **1.0040** | **1.0111** | **4.7972** |
| Stddev | .148 | .00229 | .038 | .00058 | .00035 | .0275 | .00137 | .00463 | .0006 | .00615 | .0074 | .0002 | .0007 |
| %RSD | .30237 | .23241 | .19617 | .11700 | .07134 | .56616 | .27536 | .46731 | .05607 | 16.432 | .73772 | .02056 | .01444 |
| #1 | 48.745 | .98332 | 19.456 | .49542 | .48663 | 4.8821 | .49673 | .98805 | 1.0049 | -.03308 | .99879 | 1.0113 | 4.7977 |
| #2 | 48.954 | .98656 | 19.510 | .49624 | .48712 | 4.8432 | .49867 | .99460 | 1.0057 | -.04178 | 1.0093 | 1.0110 | 4.7968 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98076** | **.50389** | **.00380** | **.49664** | **.99984** | **.00927** | **.48564** | **.48029** | **.49231** |
| Stddev | .00494 | .00198 | .00019 | .00040 | .00537 | .02069 | .00037 | .00020 | .00198 |
| %RSD | .50392 | .39298 | 5.0775 | .08126 | .53756 | 223.32 | .07576 | .04156 | .40207 |
| #1 | .97726 | .50249 | .00366 | .49635 | .99604 | .02390 | .48590 | .48015 | .49091 |
| #2 | .98425 | .50529 | .00393 | .49692 | 1.0036 | -.00537 | .48538 | .48043 | .49371 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5597.4** | **70655.** | **4364.9** |
| Stddev | .0 | 280. | 12.3 |
| %RSD | .00027 | .39673 | .28186 |
| #1 | 5597.4 | 70853. | 4356.2 |
| #2 | 5597.4 | 70457. | 4373.6 |

Sample Name: CCB Acquired: 5/16/2013 11:50:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00201** | **-.00010** | **.00237** | F **.00312** | W **-.00062** | **.00000** | **-.00227** | **-.00197** | **.00010** | **-.00008** | **.00029** |
| Stddev | .00023 | .00014 | .00042 | .00075 | .00025 | .00004 | .00293 | .00335 | .00005 | .00009 | .00004 |
| %RSD | 11.380 | 136.34 | 17.574 | 23.938 | 40.585 | 1481.4 | 129.23 | 170.50 | 48.738 | 103.42 | 12.825 |
| #1 | .00185 | -.00000 | .00207 | .00365 | -.00044 | -.00002 | -.00020 | -.00434 | .00007 | -.00015 | .00032 |
| #2 | .00217 | -.00020 | .00266 | .00259 | -.00079 | .00003 | -.00434 | .00040 | .00014 | -.00002 | .00027 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00180 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00122** | **.00032** | **-.02880** | W **-.00425** | **.00150** | **-.00004** | **-.00004** | **-.01437** | **-.00026** | **.00027** | **.00162** |
| Stddev | .00009 | .00142 | .06098 | .00016 | .00149 | .00002 | .00034 | .00516 | .00001 | .00170 | .00143 |
| %RSD | 7.3932 | 440.10 | 211.78 | 3.7364 | 99.103 | 51.254 | 783.98 | 35.916 | 3.7107 | 630.42 | 87.866 |
| #1 | -.00116 | .00133 | .01433 | -.00414 | .00255 | -.00003 | .00020 | -.01802 | -.00026 | .00147 | .00263 |
| #2 | -.00128 | -.00068 | -.07192 | -.00436 | .00045 | -.00006 | -.00028 | -.01072 | -.00027 | -.00093 | .00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03863** | **-.00086** | **.00221** | **.01274** | **.00001** | **.00005** | **.00364** | **-.00033** | **-.00077** | **-.03014** | W **-.00149** |
| Stddev | .00351 | .00045 | .00275 | .01227 | .00086 | .00002 | .00280 | .00006 | .00037 | .01376 | .00027 |
| %RSD | 9.0792 | 52.142 | 124.57 | 96.355 | 11010. | 45.131 | 76.993 | 19.356 | 48.034 | 45.645 | 18.190 |
| #1 | -.04111 | -.00054 | .00415 | .00406 | .00062 | .00007 | .00562 | -.00028 | -.00051 | -.03987 | -.00130 |
| #2 | -.03615 | -.00117 | .00026 | .02142 | -.00060 | .00004 | .00166 | -.00037 | -.00103 | -.02041 | -.00169 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00263** | **-.00161** |
| Stddev | .00001 | .00046 |
| %RSD | .44359 | 28.547 |
| #1 | .00263 | -.00194 |
| #2 | .00264 | -.00129 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5603.6** | **71165.** | **4354.1** |
| Stddev | 17.8 | 273. | 21.5 |
| %RSD | .31798 | .38325 | .49370 |
| #1 | 5591.0 | 71357. | 4369.3 |
| #2 | 5616.2 | 70972. | 4338.9 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 11:52:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01175** | **.10242** | W **.01941** | **.10699** | **.00965** | **.00105** | **.10669** | **.20159** | **.00526** | **.01096** | **.01039** |
| Stddev | .00010 | .00053 | .00080 | .00021 | .00009 | .00010 | .00137 | .00640 | .00004 | .00024 | .00010 |
| %RSD | .84159 | .52132 | 4.1050 | .19408 | .94760 | 9.2049 | 1.2837 | 3.1754 | .67004 | 2.1668 | .99552 |
| #1 | .01168 | .10280 | .01997 | .10714 | .00972 | .00099 | .10572 | .20612 | .00524 | .01079 | .01046 |
| #2 | .01182 | .10204 | .01885 | .10684 | .00959 | .00112 | .10766 | .19707 | .00529 | .01112 | .01031 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01411** | **.09728** | **2.9865** | **.00917** | **.20837** | **.01023** | **.01942** | **.97611** | **.04149** | **3.0157** | **.01011** |
| Stddev | .00026 | .00051 | .0369 | .00085 | .00098 | .00011 | .00026 | .01309 | .00028 | .0080 | .00048 |
| %RSD | 1.8398 | .52282 | 1.2350 | 9.3169 | .47020 | 1.0879 | 1.3271 | 1.3409 | .67871 | .26362 | 4.7451 |
| #1 | .01430 | .09692 | 3.0125 | .00857 | .20768 | .01031 | .01924 | .98536 | .04169 | 3.0213 | .00977 |
| #2 | .01393 | .09764 | 2.9604 | .00978 | .20907 | .01015 | .01961 | .96685 | .04129 | 3.0101 | .01045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03656** | **.00866** | **.01338** | **.48265** | **.09986** | **.01039** | **.01622** | **.01001** | **.01468** | F **.03926** | **.00837** |
| Stddev | .00178 | .00165 | .00320 | .00633 | .00146 | .00009 | .00178 | .00007 | .00017 | .01727 | .00023 |
| %RSD | 4.8580 | 19.048 | 23.897 | 1.3105 | 1.4604 | .84177 | 10.982 | .70871 | 1.1751 | 43.990 | 2.7828 |
| #1 | -.03781 | .00982 | .01112 | .48712 | .10089 | .01033 | .01496 | .01006 | .01456 | .05147 | .00821 |
| #2 | -.03530 | .00749 | .01564 | .47817 | .09883 | .01045 | .01748 | .00996 | .01480 | .02705 | .00854 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02297** | **.01744** |
| Stddev | .00007 | .00003 |
| %RSD | .30692 | .18677 |
| #1 | .02292 | .01742 |
| #2 | .02302 | .01747 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5687.6** | **72041.** | **4385.6** |
| Stddev | 11.2 | 294. | 12.9 |
| %RSD | .19680 | .40790 | .29334 |
| #1 | 5695.5 | 71833. | 4376.6 |
| #2 | 5679.7 | 72249. | 4394.7 |

Sample Name: 280-42003-B-4-B  Acquired: 5/16/2013 11:55:17  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **9.0633** | **.00552** | **2.8741** | **.05095** | **.00067** | **-.00318** | **17.570** | **.00027** |
| Stddev | .00008 | .1092 | .00130 | .0017 | .00100 | .00014 | .00098 | .170 | .00002 |
| %RSD | 10.378 | 1.2045 | 23.500 | .05866 | 1.9680 | 20.800 | 30.855 | .96724 | 7.8798 |
| #1 | .00086 | 9.1405 | .00460 | 2.8729 | .05165 | .00058 | -.00388 | 17.690 | .00029 |
| #2 | .00075 | 8.9861 | .00644 | 2.8753 | .05024 | .00077 | -.00249 | 17.449 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00702** | **.01594** | **.00754** | **14.757** | **8.1889** | **.04814** | **18.173** | **.30869** | **.01076** |
| Stddev | .00017 | .00016 | .00032 | .165 | .0315 | .00115 | .060 | .00106 | .00058 |
| %RSD | 2.4679 | .99939 | 4.2162 | 1.1179 | .38507 | 2.3873 | .32910 | .34443 | 5.4319 |
| #1 | .00690 | .01583 | .00776 | 14.873 | 8.1666 | .04895 | 18.215 | .30944 | .01035 |
| #2 | .00714 | .01605 | .00731 | 14.640 | 8.2112 | .04733 | 18.131 | .30794 | .01117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **342.86** | **.01560** | **.74652** | **.00777** | **32.786** | **-.00153** | **.00148** | **17.707** | **.00117** |
| Stddev | 3.87 | .00004 | .00121 | .00129 | .060 | .00015 | .00342 | .028 | .00019 |
| %RSD | 1.1294 | .23704 | .16249 | 16.631 | .18247 | 10.024 | 231.43 | .15622 | 16.122 |
| #1 | 345.59 | .01563 | .74738 | .00868 | 32.744 | -.00164 | -.00094 | 17.726 | .00130 |
| #2 | 340.12 | .01558 | .74566 | .00686 | 32.829 | -.00143 | .00389 | 17.687 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0465** | **.00791** | **.08156** | **-.00034** | **-.01450** | **.01487** | **.02804** | **.00377** |
| Stddev | .0093 | .00469 | .00012 | .00157 | .01915 | .00084 | .00019 | .00214 |
| %RSD | .88704 | 59.266 | .14713 | 457.30 | 132.12 | 5.6370 | .68995 | 56.719 |
| #1 | 1.0531 | .01123 | .08147 | -.00145 | -.02804 | .01546 | .02790 | .00528 |
| #2 | 1.0400 | .00460 | .08164 | .00077 | -.00095 | .01428 | .02818 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5545.1** | **69475.** | **4361.7** |
| Stddev | 22.8 | 638. | 61.2 |
| %RSD | .41111 | .91843 | 1.4022 |
| #1 | 5529.0 | 69024. | 4318.4 |
| #2 | 5561.2 | 69927. | 4404.9 |

Sample Name: 280-42003-B-5-B Acquired: 5/16/2013 11:57:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **.37476** | **.00452** | **.06575** | **.10362** | **.00005** | **-.00088** | **52.610** | **.00011** |
| Stddev | .00007 | .00153 | .00197 | .00041 | .00027 | .00010 | .00025 | .012 | .00006 |
| %RSD | 6.3178 | .40884 | 43.498 | .62775 | .26169 | 186.90 | 28.925 | .02341 | 52.579 |
| #1 | .00112 | .37367 | .00313 | .06604 | .10381 | .00013 | -.00070 | 52.619 | .00007 |
| #2 | .00122 | .37584 | .00591 | .06546 | .10343 | -.00002 | -.00106 | 52.601 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00057** | **.00104** | **.60669** | **11.408** | **-.00066** | **13.546** | **.07466** | **.00066** |
| Stddev | .00029 | .00000 | .00039 | .00040 | .015 | .00009 | .017 | .00002 | .00016 |
| %RSD | 672.04 | .75062 | 37.410 | .06623 | .13390 | 13.598 | .12835 | .02917 | 23.669 |
| #1 | .00025 | .00058 | .00076 | .60640 | 11.419 | -.00072 | 13.534 | .07468 | .00077 |
| #2 | -.00016 | .00057 | .00131 | .60697 | 11.397 | -.00060 | 13.559 | .07465 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **10.466** | **11.568** | **.00106** | **.34399** | **.00041** | **29.472** | **-.00274** | **.00093** | **1.2748** |
| Stddev | .002 | .266 | .00003 | .00089 | .00054 | .038 | .00026 | .00248 | .0079 |
| %RSD | .01722 | 2.3033 | 2.4084 | .25810 | 133.04 | .12938 | 9.6478 | 266.16 | .62256 |
| #1 | 10.467 | 11.756 | .00108 | .34461 | .00002 | 29.445 | -.00255 | .00269 | 1.2805 |
| #2 | 10.465 | 11.379 | .00104 | .34336 | .00079 | 29.499 | -.00293 | -.00082 | 1.2692 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **.24807** | **.00248** | **.00494** | **-.00103** | W **-.05543** | **.00002** | **.01034** | **.00128** |
| Stddev | .00171 | .00048 | .00178 | .00023 | .00114 | .03795 | .00018 | .00051 | .00174 |
| %RSD | 439.68 | .19323 | 71.777 | 4.6146 | 109.82 | 68.461 | 812.56 | 4.9576 | 136.48 |
| #1 | .00082 | .24773 | .00374 | .00510 | -.00023 | -.08226 | -.00011 | .01070 | .00004 |
| #2 | -.00160 | .24841 | .00122 | .00478 | -.00184 | -.02859 | .00015 | .00997 | .00251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 45.000 | | | |
| Low Limit | | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5649.7** | **72347.** | **4479.5** |
| Stddev | 13.5 | 32. | 15.4 |
| %RSD | .23943 | .04467 | .34374 |
| #1 | 5659.3 | 72370. | 4468.7 |
| #2 | 5640.2 | 72324. | 4490.4 |

Sample Name: 280-42003-B-6-A Acquired: 5/16/2013 12:00:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00177** | **.00177** | **.00161** | **.00418** | **-.00088** | **.00000** | **-.00400** | **.00641** | **.00011** |
| Stddev | .00021 | .00028 | .00133 | .00032 | .00056 | .00002 | .00143 | .00718 | .00009 |
| %RSD | 12.133 | 15.712 | 82.174 | 7.6908 | 63.380 | 646.89 | 35.690 | 111.97 | 75.190 |
| #1 | .00162 | .00157 | .00068 | .00441 | -.00128 | .00002 | -.00299 | .01148 | .00005 |
| #2 | .00192 | .00197 | .00255 | .00395 | -.00049 | -.00001 | -.00501 | .00133 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00013** | **-.00040** | **.00118** | **.00398** | **-.00303** | **.00317** | **.00003** | **-.00034** |
| Stddev | .00009 | .00022 | .00012 | .00208 | .00077 | .00178 | .00155 | .00002 | .00022 |
| %RSD | 79.233 | 170.43 | 30.933 | 175.93 | 19.296 | 58.757 | 48.877 | 66.267 | 63.171 |
| #1 | .00005 | .00029 | -.00049 | .00266 | .00344 | -.00177 | .00426 | .00004 | -.00019 |
| #2 | .00017 | -.00003 | -.00031 | -.00029 | .00452 | -.00429 | .00207 | .00002 | -.00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00204** | **.00009** | **.24533** | **.00043** | **-.03382** | **-.00027** | **.00307** | **.02741** | **.00015** |
| Stddev | .00542 | .00039 | .00151 | .00019 | .00076 | .00095 | .00073 | .00154 | .00023 |
| %RSD | 265.58 | 444.72 | .61709 | 43.188 | 2.2519 | 359.54 | 23.682 | 5.6245 | 150.40 |
| #1 | .00179 | -.00019 | .24426 | .00030 | -.03328 | -.00094 | .00255 | .02632 | .00031 |
| #2 | -.00588 | .00036 | .24640 | .00056 | -.03435 | .00041 | .00358 | .02850 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00163** | **-.00040** | **-.00157** | **-.02379** | **-.00126** | **.00327** | **.00047** |
| Stddev | .00000 | .00123 | .00017 | .00107 | .05585 | .00046 | .00004 | .00056 |
| %RSD | 2.1221 | 75.485 | 42.223 | 68.127 | 234.72 | 36.270 | 1.2773 | 119.84 |
| #1 | .00004 | .00076 | -.00051 | -.00081 | .01570 | -.00158 | .00324 | .00087 |
| #2 | .00004 | .00250 | -.00028 | -.00232 | -.06329 | -.00094 | .00330 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5734.0** | **73000.** | **4496.5** |
| Stddev | 3.7 | 193. | 33.2 |
| %RSD | .06436 | .26369 | .73803 |
| #1 | 5736.6 | 73136. | 4520.0 |
| #2 | 5731.4 | 72864. | 4473.0 |

Sample Name: 280-42003-B-7-B Acquired: 5/16/2013 12:02:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **.02334** | **-.00001** | **.06407** | **.08088** | **-.00001** | **-.00473** | **182.80** | **.00020** |
| Stddev | .00024 | .00023 | .00200 | .00025 | .00038 | .00004 | .00300 | .09 | .00007 |
| %RSD | 47.964 | .97394 | 19775. | .39693 | .46927 | 421.24 | 63.553 | .05042 | 33.985 |
| #1 | .00066 | .02318 | .00140 | .06425 | .08115 | .00002 | -.00685 | 182.86 | .00015 |
| #2 | .00033 | .02350 | -.00142 | .06389 | .08061 | -.00004 | -.00260 | 182.73 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00019** | **.00089** | **.19372** | **5.7390** | **-.00069** | **41.620** | **.10471** | **.00180** |
| Stddev | .00005 | .00016 | .00053 | .00033 | .0165 | .00041 | .007 | .00007 | .00006 |
| %RSD | 9.6042 | 86.861 | 59.366 | .16878 | .28769 | 59.423 | .01631 | .06521 | 3.2661 |
| #1 | .00054 | .00030 | .00126 | .19349 | 5.7273 | -.00040 | 41.624 | .10476 | .00176 |
| #2 | .00047 | .00007 | .00051 | .19395 | 5.7507 | -.00098 | 41.615 | .10466 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.824** | **.00113** | **.29383** | **.00146** | **167.97** | **-.00125** | **-.00063** | **1.4031** | **-.00041** |
| Stddev | .470 | .00039 | .00110 | .00087 | .10 | .00026 | .00097 | .0251 | .00018 |
| %RSD | 1.6905 | 34.828 | .37335 | 59.120 | .05974 | 21.012 | 155.58 | 1.7878 | 45.168 |
| #1 | 28.156 | .00085 | .29460 | .00208 | 167.90 | -.00106 | .00006 | 1.4208 | -.00028 |
| #2 | 27.491 | .00141 | .29305 | .00085 | 168.04 | -.00143 | -.00131 | 1.3854 | -.00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.79874** | **.00052** | **.00092** | **-.00147** | **-.00065** | **.00000** | **.00923** | **.00228** |
| Stddev | .00066 | .00284 | .00010 | .00106 | .01460 | .00041 | .00008 | .00105 |
| %RSD | .08272 | 548.79 | 10.457 | 71.811 | 2248.2 | 19359. | .83410 | 45.976 |
| #1 | .79827 | .00253 | .00098 | -.00222 | -.01097 | -.00029 | .00929 | .00303 |
| #2 | .79921 | -.00149 | .00085 | -.00073 | .00967 | .00029 | .00918 | .00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5459.1** | **70070.** | **4364.0** |
| Stddev | 10.1 | 220. | 22.0 |
| %RSD | .18530 | .31445 | .50472 |
| #1 | 5452.0 | 70226. | 4379.6 |
| #2 | 5466.3 | 69914. | 4348.4 |

Sample Name: 280-42003-B-8-B Acquired: 5/16/2013 12:05:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **1.6547** | **.00467** | **3.3850** | **.03987** | **.00003** | **-.00036** | **13.977** | **.00026** |
| Stddev | .00043 | .0068 | .00030 | .0042 | .00043 | .00002 | .00212 | .109 | .00005 |
| %RSD | 39.188 | .41363 | 6.5153 | .12366 | 1.0904 | 46.102 | 592.01 | .77728 | 17.589 |
| #1 | .00139 | 1.6595 | .00489 | 3.3880 | .03956 | .00005 | -.00186 | 13.900 | .00029 |
| #2 | .00079 | 1.6499 | .00446 | 3.3821 | .04018 | .00002 | .00114 | 14.054 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00224** | **.00398** | **.00022** | **2.9017** | **4.6374** | **.03453** | **12.059** | **.07733** | **.00324** |
| Stddev | .00009 | .00004 | .00019 | .0188 | .0166 | .00103 | .017 | .00001 | .00022 |
| %RSD | 3.8412 | 1.0572 | 86.650 | .64731 | .35801 | 2.9771 | .14446 | .01869 | 6.7887 |
| #1 | .00230 | .00401 | .00009 | 2.8884 | 4.6491 | .03526 | 12.072 | .07732 | .00340 |
| #2 | .00217 | .00395 | .00035 | 2.9150 | 4.6256 | .03380 | 12.047 | .07734 | .00309 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **340.30** | **.00422** | **.43417** | **.00208** | **31.947** | **-.00150** | **-.00135** | **7.2462** | **.00098** |
| Stddev | 1.18 | .00026 | .00229 | .00037 | .016 | .00051 | .00084 | .0209 | .00063 |
| %RSD | .34663 | 6.2740 | .52802 | 18.001 | .04949 | 33.811 | 62.579 | .28884 | 64.021 |
| #1 | 339.46 | .00441 | .43579 | .00181 | 31.958 | -.00114 | -.00075 | 7.2314 | .00054 |
| #2 | 341.13 | .00404 | .43255 | .00234 | 31.936 | -.00185 | -.00194 | 7.2610 | .00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94598** | **-.00012** | **.02639** | **.00050** | **.00431** | **.00349** | **.01113** | **.00349** |
| Stddev | .00642 | .00048 | .00045 | .00112 | .01860 | .00031 | .00027 | .00223 |
| %RSD | .67851 | 401.26 | 1.7174 | 225.87 | 431.68 | 8.9790 | 2.4138 | 63.953 |
| #1 | .94144 | -.00046 | .02607 | .00129 | -.00884 | .00372 | .01132 | .00506 |
| #2 | .95052 | .00022 | .02671 | -.00030 | .01746 | .00327 | .01094 | .00191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5543.3** | **69239.** | **4313.6** |
| Stddev | 3.0 | 12. | 21.3 |
| %RSD | .05452 | .01690 | .49276 |
| #1 | 5541.2 | 69248. | 4328.7 |
| #2 | 5545.5 | 69231. | 4298.6 |

Sample Name: 280-42003-B-9-B Acquired: 5/16/2013 12:07:39 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00147** | **5.4641** | **.00535** | **3.4732** | **.04452** | **.00027** | **-.00254** | **21.033** | **.00004** |
| Stddev | .00033 | .0270 | .00142 | .0019 | .00020 | .00002 | .00087 | .010 | .00015 |
| %RSD | 22.091 | .49488 | 26.495 | .05518 | .45751 | 5.8340 | 34.248 | .04638 | 332.21 |
| #1 | .00124 | 5.4832 | .00435 | 3.4718 | .04467 | .00026 | -.00193 | 21.040 | .00015 |
| #2 | .00170 | 5.4449 | .00635 | 3.4745 | .04438 | .00028 | -.00316 | 21.026 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00392** | **.01456** | **.00446** | **8.2108** | **6.0457** | **.04342** | **12.049** | **.16147** | **.01827** |
| Stddev | .00010 | .00018 | .00030 | .0288 | .0439 | .00007 | .002 | .00014 | .00002 |
| %RSD | 2.6516 | 1.2546 | 6.7416 | .35080 | .72633 | .17089 | .01699 | .08604 | .08238 |
| #1 | .00399 | .01443 | .00467 | 8.2312 | 6.0146 | .04336 | 12.047 | .16138 | .01826 |
| #2 | .00385 | .01469 | .00425 | 8.1905 | 6.0767 | .04347 | 12.050 | .16157 | .01828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **356.30** | **.01060** | **.54006** | **.00393** | **27.161** | **-.00157** | **.00139** | **12.777** | **.00362** |
| Stddev | .72 | .00028 | .00072 | .00173 | .011 | .00010 | .00462 | .001 | .00057 |
| %RSD | .20071 | 2.6473 | .13277 | 43.890 | .04099 | 6.3401 | 332.59 | .00535 | 15.886 |
| #1 | 356.81 | .01041 | .54057 | .00515 | 27.169 | -.00164 | -.00188 | 12.777 | .00321 |
| #2 | 355.80 | .01080 | .53956 | .00271 | 27.153 | -.00150 | .00465 | 12.777 | .00402 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86843** | **.00512** | **.05706** | **-.00010** | **-.03804** | **.00836** | **.02130** | **.00605** |
| Stddev | .00015 | .00141 | .00030 | .00054 | .00658 | .00006 | .00036 | .00080 |
| %RSD | .01721 | 27.576 | .52215 | 529.24 | 17.289 | .76313 | 1.6729 | 13.197 |
| #1 | .86832 | .00612 | .05684 | -.00048 | -.04270 | .00831 | .02155 | .00661 |
| #2 | .86854 | .00413 | .05727 | .00028 | -.03339 | .00840 | .02105 | .00549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5589.7** | **70254.** | **4476.9** |
| Stddev | 12.7 | 50. | 16.4 |
| %RSD | .22778 | .07126 | .36526 |
| #1 | 5598.7 | 70289. | 4488.4 |
| #2 | 5580.7 | 70218. | 4465.3 |

Sample Name: 280-42003-B-10-B  Acquired: 5/16/2013 12:10:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **1.2526** | **.00483** | **2.3439** | **.04951** | **.00003** | **-.00560** | **15.337** | **.00010** |
| Stddev | .00064 | .0060 | .00033 | .0037 | .00068 | .00004 | .00066 | .006 | .00017 |
| %RSD | 67.512 | .47809 | 6.7382 | .15724 | 1.3818 | 115.08 | 11.708 | .03599 | 172.15 |
| #1 | .00050 | 1.2483 | .00460 | 2.3413 | .04902 | .00001 | -.00514 | 15.333 | -.00002 |
| #2 | .00140 | 1.2568 | .00506 | 2.3465 | .04999 | .00006 | -.00606 | 15.341 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00258** | **.00298** | **.00062** | **2.2247** | **4.3013** | **.03314** | **13.174** | **.07535** | **.00307** |
| Stddev | .00017 | .00009 | .00033 | .0051 | .0176 | .00278 | .012 | .00029 | .00002 |
| %RSD | 6.6849 | 3.1127 | 53.716 | .22819 | .40926 | 8.3844 | .09242 | .38740 | .56214 |
| #1 | .00271 | .00305 | .00038 | 2.2211 | 4.2889 | .03118 | 13.183 | .07555 | .00306 |
| #2 | .00246 | .00291 | .00086 | 2.2283 | 4.3137 | .03510 | 13.166 | .07514 | .00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **286.39** | **.00596** | **.37774** | **.00318** | **16.545** | **-.00143** | **.00135** | **7.0088** | **.00206** |
| Stddev | .06 | .00018 | .00047 | .00013 | .008 | .00081 | .00062 | .0118 | .00059 |
| %RSD | .01962 | 3.0038 | .12481 | 4.1558 | .05029 | 56.744 | 46.048 | .16829 | 28.426 |
| #1 | 286.35 | .00583 | .37807 | .00327 | 16.539 | -.00085 | .00179 | 7.0005 | .00248 |
| #2 | 286.43 | .00609 | .37741 | .00309 | 16.551 | -.00200 | .00091 | 7.0171 | .00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.73370** | **.00235** | **.01944** | **-.00118** | **-.04980** | **.00266** | **.00845** | **.00250** |
| Stddev | .00046 | .00435 | .00028 | .00073 | .02102 | .00043 | .00000 | .00252 |
| %RSD | .06232 | 185.42 | 1.4495 | 61.920 | 42.206 | 16.229 | .01046 | 100.91 |
| #1 | .73338 | -.00073 | .01924 | -.00169 | -.03493 | .00297 | .00845 | .00072 |
| #2 | .73403 | .00542 | .01964 | -.00066 | -.06466 | .00236 | .00845 | .00428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5454.9** | **69931.** | **4316.2** |
| Stddev | 45.5 | 446. | 6.9 |
| %RSD | .83440 | .63719 | .15892 |
| #1 | 5487.1 | 69616. | 4321.0 |
| #2 | 5422.7 | 70246. | 4311.3 |

Sample Name: 280-42003-B-11-B  Acquired: 5/16/2013 12:12:30  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00149** | **.12097** | **.00237** | **.05596** | **.10955** | **-.00008** | **-.00456** | **77.640** | **.00049** |
| Stddev | .00014 | .00019 | .00059 | .00033 | .00002 | .00011 | .00007 | .052 | .00006 |
| %RSD | 9.5814 | .15525 | 24.967 | .58727 | .01406 | 127.29 | 1.6071 | .06650 | 11.892 |
| #1 | .00138 | .12111 | .00279 | .05573 | .10956 | -.00016 | -.00461 | 77.676 | .00045 |
| #2 | .00159 | .12084 | .00195 | .05620 | .10954 | -.00001 | -.00450 | 77.603 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00039** | **.01152** | **.59545** | **7.4989** | **.00556** | **31.993** | **.24152** | **.00151** |
| Stddev | .00024 | .00002 | .00039 | .00186 | .0250 | .00161 | .032 | .00003 | .00017 |
| %RSD | 44.422 | 4.3465 | 3.3834 | .31315 | .33280 | 28.878 | .09930 | .01116 | 11.465 |
| #1 | .00037 | .00040 | .01124 | .59677 | 7.5165 | .00670 | 31.971 | .24150 | .00139 |
| #2 | .00072 | .00038 | .01179 | .59414 | 7.4812 | .00443 | 32.016 | .24154 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.558** | **.00268** | **.30564** | **.01713** | **37.134** | **.00042** | **.00126** | **3.7351** | **.00089** |
| Stddev | .225 | .00018 | .00036 | .00160 | .024 | .00092 | .00257 | .0089 | .00057 |
| %RSD | 1.1482 | 6.7104 | .11937 | 9.3419 | .06427 | 220.70 | 203.52 | .23931 | 63.853 |
| #1 | 19.716 | .00281 | .30590 | .01600 | 37.117 | .00106 | -.00055 | 3.7287 | .00049 |
| #2 | 19.399 | .00255 | .30538 | .01826 | 37.151 | -.00023 | .00308 | 3.7414 | .00129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55078** | **-.00132** | **.00237** | **-.00148** | **-.02987** | **-.00031** | **.20685** | **.00052** |
| Stddev | .00022 | .00127 | .00058 | .00025 | .01396 | .00081 | .00177 | .00222 |
| %RSD | .03993 | 95.930 | 24.471 | 16.619 | 46.723 | 260.40 | .85339 | 430.30 |
| #1 | .55062 | -.00042 | .00278 | -.00165 | -.02000 | -.00088 | .20810 | .00209 |
| #2 | .55093 | -.00221 | .00196 | -.00131 | -.03974 | .00026 | .20561 | -.00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5443.3** | **69116.** | **4327.2** |
| Stddev | 10.0 | 239. | 33.4 |
| %RSD | .18297 | .34550 | .77140 |
| #1 | 5450.4 | 68947. | 4350.8 |
| #2 | 5436.3 | 69285. | 4303.6 |

Sample Name: 280-42005-E-1-A Acquired: 5/16/2013 12:14:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **1.4189** | **.00828** | **.03436** | **.16252** | **-.00005** | **-.00383** | **119.98** | **.00068** |
| Stddev | .00029 | .0015 | .00057 | .00101 | .00016 | .00006 | .00011 | .99 | .00012 |
| %RSD | 29.568 | .10349 | 6.9428 | 2.9413 | .09900 | 117.75 | 2.9939 | .82691 | 17.369 |
| #1 | .00077 | 1.4199 | .00787 | .03508 | .16264 | -.00001 | -.00391 | 119.28 | .00076 |
| #2 | .00117 | 1.4178 | .00868 | .03365 | .16241 | -.00010 | -.00375 | 120.68 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02557** | **.00418** | **.00799** | **71.965** | **5.0996** | **.00483** | **55.511** | **2.4760** | **.00234** |
| Stddev | .00008 | .00000 | .00018 | .311 | .0153 | .00037 | .085 | .0032 | .00059 |
| %RSD | .31317 | .03155 | 2.3049 | .43151 | .29990 | 7.6281 | .15377 | .12777 | 25.433 |
| #1 | .02563 | .00418 | .00786 | 71.745 | 5.0888 | .00457 | 55.571 | 2.4782 | .00192 |
| #2 | .02551 | .00418 | .00812 | 72.185 | 5.1105 | .00509 | 55.451 | 2.4737 | .00276 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **153.89** | **.01492** | **.46523** | **.00580** | **.16134** | **-.00032** | **.00521** | **19.234** | **.00184** |
| Stddev | 1.65 | .00036 | .00434 | .00065 | .00445 | .00196 | .00386 | .059 | .00008 |
| %RSD | 1.0715 | 2.4232 | .93196 | 11.124 | 2.7599 | 621.90 | 74.037 | .30775 | 4.3626 |
| #1 | 152.72 | .01518 | .46216 | .00626 | .15819 | .00107 | .00248 | 19.193 | .00178 |
| #2 | 155.05 | .01467 | .46830 | .00535 | .16449 | -.00170 | .00794 | 19.276 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20047** | **.01438** | **.07957** | **-.00268** | **-.02976** | **.00488** | **.01505** | **.00307** |
| Stddev | .00153 | .00114 | .00011 | .00149 | .00270 | .00015 | .00065 | .00123 |
| %RSD | .76191 | 7.9258 | .13424 | 55.758 | 9.0773 | 3.1103 | 4.3375 | 39.970 |
| #1 | .19939 | .01519 | .07965 | -.00373 | -.02785 | .00478 | .01551 | .00394 |
| #2 | .20155 | .01358 | .07950 | -.00162 | -.03167 | .00499 | .01459 | .00220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5478.7** | **69008.** | **4400.4** |
| Stddev | 8.8 | 238. | 59.3 |
| %RSD | .15986 | .34526 | 1.3484 |
| #1 | 5472.5 | 68840. | 4442.4 |
| #2 | 5484.9 | 69177. | 4358.4 |

Sample Name: 280-42009-E-4-B Acquired: 5/16/2013 12:17:19 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **.01243** | **.00380** | **.02587** | **.04851** | **-.00001** | **-.00385** | **91.669** | **.00021** |
| Stddev | .00043 | .00030 | .00290 | .00032 | .00023 | .00002 | .00241 | .604 | .00011 |
| %RSD | 66.203 | 2.3882 | 76.422 | 1.2224 | .47404 | 131.63 | 62.447 | .65840 | 53.273 |
| #1 | .00035 | .01264 | .00585 | .02609 | .04835 | -.00002 | -.00215 | 91.242 | .00029 |
| #2 | .00096 | .01222 | .00175 | .02565 | .04868 | -.00000 | -.00555 | 92.095 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **.00032** | **.00185** | **3.2863** | **2.5984** | **.00400** | **49.915** | **.65295** | **.01904** |
| Stddev | .00018 | .00010 | .00068 | .0242 | .0038 | .00077 | .089 | .00057 | .00015 |
| %RSD | 18.336 | 31.772 | 36.572 | .73477 | .14607 | 19.173 | .17745 | .08795 | .77113 |
| #1 | .00083 | .00039 | .00137 | 3.2693 | 2.6010 | .00455 | 49.977 | .65336 | .01914 |
| #2 | .00108 | .00025 | .00232 | 3.3034 | 2.5957 | .00346 | 49.852 | .65254 | .01894 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.5412** | **.00018** | **.42289** | **.00100** | **.88424** | **-.00321** | **.00082** | **8.7598** | **.00056** |
| Stddev | .0062 | .00032 | .00071 | .00001 | .00180 | .00107 | .00129 | .0360 | .00050 |
| %RSD | .17358 | 174.15 | .16693 | .51915 | .20412 | 33.291 | 156.68 | .41111 | 88.356 |
| #1 | 3.5456 | -.00004 | .42239 | .00099 | .88552 | -.00246 | .00173 | 8.7343 | .00021 |
| #2 | 3.5369 | .00041 | .42339 | .00100 | .88297 | -.00397 | -.00009 | 8.7853 | .00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07522** | **.00086** | **.00069** | **-.00164** | **-.04687** | **-.00054** | **.01518** | **.00137** |
| Stddev | .00027 | .00002 | .00015 | .00076 | .01873 | .00109 | .00075 | .00088 |
| %RSD | .36493 | 2.6360 | 22.354 | 46.534 | 39.967 | 201.21 | 4.9233 | 64.615 |
| #1 | .07503 | .00088 | .00080 | -.00110 | -.03362 | -.00131 | .01465 | .00199 |
| #2 | .07542 | .00085 | .00058 | -.00218 | -.06011 | .00023 | .01571 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5521.9** | **70730.** | **4335.5** |
| Stddev | 46.0 | 130. | 49.1 |
| %RSD | .83247 | .18411 | 1.1321 |
| #1 | 5554.4 | 70638. | 4370.2 |
| #2 | 5489.4 | 70822. | 4300.8 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 12:19:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **50.918** | **-.00002** | **.00448** | **-.00050** | **-.00011** | **1.0303** | **.00872** | **-.00089** | **.00215** | **.00028** | **-.00041** | **50.187** |
| Stddev | .00001 | .728 | .00064 | .00013 | .00029 | .00015 | .0001 | .00785 | .00003 | .00010 | .00017 | .00044 | .531 |
| %RSD | 1.4212 | 1.4306 | 2921.8 | 2.9386 | 58.853 | 144.34 | .00475 | 90.066 | 3.5217 | 4.5952 | 61.561 | 107.64 | 1.0582 |
| #1 | .00099 | 50.403 | .00043 | .00439 | -.00029 | -.00022 | 1.0302 | .01427 | -.00086 | .00222 | .00016 | -.00073 | 49.811 |
| #2 | .00097 | 51.433 | -.00047 | .00457 | -.00071 | .00000 | 1.0303 | .00316 | -.00091 | .00208 | .00040 | -.00010 | 50.562 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00182** | **.00099** | **.01017** | **.00003** | **-.00231** | **257.21** | **.00110** | **.00867** | **.00141** | **5.0938** | **-.00023** | **.00660** | **.02300** |
| Stddev | .02866 | .00102 | .00274 | .00003 | .00018 | 2.85 | .00012 | .00342 | .00002 | .0083 | .00104 | .00059 | .00400 |
| %RSD | 1578.1 | 102.98 | 26.929 | 110.01 | 7.8597 | 1.1071 | 10.700 | 39.444 | 1.7139 | .16370 | 460.55 | 8.8827 | 17.411 |
| #1 | -.02208 | .00171 | .01211 | .00001 | -.00218 | 255.20 | .00118 | .00625 | .00143 | 5.0997 | .00051 | .00702 | .02583 |
| #2 | .01845 | .00027 | .00823 | .00006 | -.00244 | 259.22 | .00102 | .01108 | .00139 | 5.0879 | -.00096 | .00619 | .02017 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **.00048** | **5.1923** | **.00292** | **-.00336** | **10.355** | **-.00122** | **.00307** | **-.04190** |
| Stddev | .00020 | .00004 | .0055 | .00061 | .00179 | .032 | .00073 | .00043 | .00053 |
| %RSD | 21.738 | 7.2852 | .10639 | 20.824 | 53.252 | .31320 | 59.729 | 14.016 | 1.2761 |
| #1 | .00106 | .00046 | 5.1884 | .00249 | -.00463 | 10.332 | -.00173 | .00276 | -.04152 |
| #2 | .00078 | .00051 | 5.1962 | .00335 | -.00210 | 10.378 | -.00070 | .00337 | -.04228 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5525.0** | **69315.** | **4316.0** |
| Stddev | 9.2 | 43. | 31.4 |
| %RSD | .16696 | .06201 | .72804 |
| #1 | 5518.4 | 69346. | 4338.3 |
| #2 | 5531.5 | 69285. | 4293.8 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 12:22:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50748** | **.51113** | **.99394** | **.51635** | **.50076** | **.48705** | **.00101** | **5.0051** | **.50499** | **.51052** | **.50053** | **.49730** | **2.4401** |
| Stddev | .00109 | .00107 | .00224 | .00143 | .00049 | .00066 | .00199 | .0054 | .00053 | .00041 | .00017 | .00041 | .0090 |
| %RSD | .21435 | .20932 | .22501 | .27641 | .09728 | .13576 | 196.40 | .10762 | .10557 | .08006 | .03400 | .08273 | .36823 |
| #1 | .50671 | .51037 | .99236 | .51534 | .50042 | .48658 | .00242 | 5.0013 | .50461 | .51023 | .50065 | .49701 | 2.4464 |
| #2 | .50825 | .51189 | .99552 | .51735 | .50111 | .48752 | -.00039 | 5.0089 | .50537 | .51081 | .50041 | .49759 | 2.4337 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.265** | **1.0073** | **19.656** | **.49842** | **.49814** | **4.9746** | **.50797** | **1.0071** | **1.0198** | **-.03447** | **1.0222** | **1.0220** | **4.8759** |
| Stddev | .027 | .0001 | .028 | .00028 | .00236 | .0045 | .00236 | .0006 | .0006 | .00148 | .0009 | .0009 | .0177 |
| %RSD | .05320 | .00616 | .14265 | .05700 | .47466 | .09055 | .46462 | .05740 | .05364 | 4.2817 | .08466 | .09221 | .36269 |
| #1 | 50.284 | 1.0073 | 19.676 | .49822 | .49981 | 4.9778 | .50964 | 1.0076 | 1.0194 | -.03551 | 1.0216 | 1.0226 | 4.8634 |
| #2 | 50.246 | 1.0073 | 19.636 | .49863 | .49647 | 4.9714 | .50630 | 1.0067 | 1.0202 | -.03343 | 1.0228 | 1.0213 | 4.8884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99584** | **.50925** | **.00299** | **.49782** | **1.0159** | **.01002** | **.49083** | **.48604** | **.49633** |
| Stddev | .00271 | .00087 | .00090 | .00110 | .0028 | .01069 | .00075 | .00099 | .00454 |
| %RSD | .27242 | .17096 | 30.047 | .22061 | .27471 | 106.68 | .15222 | .20305 | .91540 |
| #1 | .99392 | .50863 | .00236 | .49705 | 1.0139 | .00246 | .49135 | .48673 | .49311 |
| #2 | .99776 | .50986 | .00363 | .49860 | 1.0179 | .01758 | .49030 | .48534 | .49954 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5602.0** | **71191.** | **4353.7** |
| Stddev | 11.9 | 77. | 2.2 |
| %RSD | .21211 | .10832 | .05032 |
| #1 | 5593.6 | 71245. | 4352.2 |
| #2 | 5610.4 | 71136. | 4355.3 |

Sample Name: CCB Acquired: 5/16/2013 12:24:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00119** | **-.00040** | W **.00596** | W **.00269** | W **-.00113** | **-.00001** | **.00104** | **-.00035** | **-.00003** | **.00010** | **.00019** |
| Stddev | .00052 | .00026 | .00022 | .00014 | .00014 | .00012 | .00074 | .00189 | .00001 | .00005 | .00018 |
| %RSD | 43.921 | 63.196 | 3.6956 | 5.2003 | 12.618 | 1485.2 | 71.163 | 547.33 | 33.469 | 53.891 | 93.886 |
| #1 | .00156 | -.00059 | .00612 | .00259 | -.00103 | .00008 | .00157 | -.00168 | -.00002 | .00006 | .00032 |
| #2 | .00082 | -.00022 | .00580 | .00279 | -.00123 | -.00010 | .00052 | .00099 | -.00004 | .00014 | .00006 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | .00440 | .00156 | .00058 | | | | | | |
| Low Limit | -.00093 | | -.00440 | -.00156 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **-.00213** | **.00356** | W **-.00273** | **-.00012** | **-.00005** | **-.00028** | **.00750** | **.00017** | **-.00240** | **.00233** |
| Stddev | .00030 | .00217 | .03417 | .00057 | .00214 | .00001 | .00036 | .00847 | .00010 | .00053 | .00061 |
| %RSD | 46.916 | 102.01 | 958.59 | 20.897 | 1745.9 | 16.285 | 131.07 | 113.02 | 60.113 | 22.199 | 26.245 |
| #1 | -.00042 | -.00367 | .02773 | -.00233 | .00139 | -.00005 | -.00002 | .01349 | .00024 | -.00277 | .00276 |
| #2 | -.00084 | -.00059 | -.02060 | -.00314 | -.00164 | -.00006 | -.00053 | .00151 | .00010 | -.00202 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03542** | **.00197** | **.00016** | **-.00650** | **-.00007** | **.00008** | **.00194** | **-.00017** | **-.00021** | F **-.05546** | W **-.00135** |
| Stddev | .00215 | .00385 | .00175 | .00555 | .00055 | .00004 | .00077 | .00018 | .00114 | .03750 | .00015 |
| %RSD | 6.0689 | 195.23 | 1089.2 | 85.483 | 794.53 | 55.704 | 39.558 | 101.22 | 533.97 | 67.620 | 11.455 |
| #1 | -.03390 | -.00075 | -.00108 | -.00257 | .00032 | .00005 | .00248 | -.00030 | -.00102 | -.02894 | -.00124 |
| #2 | -.03694 | .00469 | .00140 | -.01042 | -.00046 | .00011 | .00139 | -.00005 | .00059 | -.08198 | -.00146 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn |
| High Limit | | | | | | | | | | .05000 | .00111 |
| Low Limit | | | | | | | | | | -.05000 | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00229** | W **.00323** |
| Stddev | .00015 | .00128 |
| %RSD | 6.6676 | 39.607 |
| #1 | .00218 | .00232 |
| #2 | .00240 | .00413 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5651.0** | **71624.** | **4346.7** |
| Stddev | 9.0 | 471. | 2.0 |
| %RSD | .15853 | .65712 | .04575 |
| #1 | 5657.3 | 71291. | 4345.3 |
| #2 | 5644.7 | 71957. | 4348.1 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 12:26:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01142** | **.10521** | W **.01909** | **.11078** | **.00965** | **.00103** | **.10945** | **.20610** | **.00537** | **.01111** | **.01092** |
| Stddev | .00040 | .00046 | .00012 | .00051 | .00017 | .00004 | .00172 | .00603 | .00002 | .00015 | .00001 |
| %RSD | 3.5247 | .43918 | .60984 | .46219 | 1.7385 | 3.4425 | 1.5685 | 2.9250 | .39432 | 1.3308 | .10649 |
| #1 | .01113 | .10489 | .01901 | .11042 | .00953 | .00105 | .11067 | .20183 | .00539 | .01100 | .01091 |
| #2 | .01170 | .10554 | .01917 | .11114 | .00977 | .00100 | .10824 | .21036 | .00536 | .01121 | .01093 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01479** | **.09561** | **3.2008** | F **.00646** | **.21557** | **.01055** | **.02030** | **1.0263** | **.04297** | **3.1209** | **.01026** |
| Stddev | .00004 | .00199 | .0037 | .00168 | .00184 | .00004 | .00007 | .0191 | .00022 | .0119 | .00160 |
| %RSD | .26422 | 2.0823 | .11559 | 26.037 | .85362 | .40941 | .32197 | 1.8642 | .51528 | .38256 | 15.645 |
| #1 | .01476 | .09420 | 3.1982 | .00527 | .21426 | .01058 | .02034 | 1.0128 | .04281 | 3.1124 | .00912 |
| #2 | .01482 | .09702 | 3.2034 | .00765 | .21687 | .01052 | .02025 | 1.0398 | .04312 | 3.1293 | .01139 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03639** | W **.00799** | **.01688** | **.51757** | **.10375** | **.01080** | **.01715** | **.01023** | **.01610** | W **.04663** | **.00900** |
| Stddev | .00072 | .00064 | .00143 | .01908 | .00130 | .00006 | .00067 | .00005 | .00060 | .04704 | .00015 |
| %RSD | 1.9770 | 7.9880 | 8.4690 | 3.6856 | 1.2537 | .57804 | 3.9275 | .51233 | 3.7462 | 100.89 | 1.6345 |
| #1 | -.03690 | .00844 | .01789 | .53106 | .10283 | .01085 | .01763 | .01019 | .01653 | .07989 | .00910 |
| #2 | -.03589 | .00754 | .01587 | .50409 | .10467 | .01076 | .01668 | .01027 | .01568 | .01336 | .00889 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -20.000% | | | | | | | | -20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02278** | W **.01824** |
| Stddev | .00043 | .00147 |
| %RSD | 1.9043 | 8.0584 |
| #1 | .02247 | .01720 |
| #2 | .02309 | .01928 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5748.5** | **72247.** | **4383.1** |
| Stddev | 8.7 | 486. | 13.3 |
| %RSD | .15091 | .67243 | .30430 |
| #1 | 5742.3 | 72591. | 4392.5 |
| #2 | 5754.6 | 71904. | 4373.7 |

Sample Name: MB 280-173386/1-A Acquired: 5/16/2013 12:29:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **.00290** | **-.00039** | **.00161** | **-.00070** | **.00000** | **-.00091** | **.01343** | **.00018** |
| Stddev | .00036 | .00000 | .00081 | .00012 | .00023 | .00008 | .00015 | .00232 | .00004 |
| %RSD | 32.905 | .04715 | 207.82 | 7.1412 | 33.439 | 62559. | 16.760 | 17.291 | 20.175 |
| #1 | .00134 | .00290 | -.00096 | .00169 | -.00053 | .00005 | -.00080 | .01507 | .00020 |
| #2 | .00083 | .00290 | .00018 | .00153 | -.00087 | -.00005 | -.00102 | .01178 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00022** | **-.00043** | **.00904** | **-.09308** | **-.00245** | **.00677** | **.00004** | **-.00020** |
| Stddev | .00011 | .00016 | .00029 | .00036 | .00426 | .00247 | .00211 | .00002 | .00025 |
| %RSD | 257.18 | 74.066 | 67.299 | 4.0329 | 4.5714 | 100.84 | 31.179 | 55.557 | 122.38 |
| #1 | -.00012 | .00010 | -.00023 | .00878 | -.09007 | -.00070 | .00528 | .00003 | -.00038 |
| #2 | .00003 | .00033 | -.00064 | .00930 | -.09609 | -.00419 | .00827 | .00006 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01125** | **-.00033** | F **.12380** | **.00091** | **-.03344** | **-.00049** | **.00050** | **.03819** | **.00068** |
| Stddev | .00703 | .00043 | .00089 | .00017 | .00060 | .00288 | .00007 | .01071 | .00007 |
| %RSD | 62.476 | 130.35 | .71804 | 18.476 | 1.7888 | 594.03 | 12.949 | 28.054 | 10.516 |
| #1 | -.00628 | -.00003 | .12443 | .00079 | -.03386 | .00155 | .00055 | .04577 | .00063 |
| #2 | -.01621 | -.00064 | .12318 | .00102 | -.03301 | -.00253 | .00046 | .03062 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00033** | **.00006** | **-.00155** | **-.00254** | **-.00102** | **.00251** | **.00074** |
| Stddev | .00012 | .00042 | .00013 | .00004 | .00830 | .00048 | .00007 | .00273 |
| %RSD | 1393.8 | 128.36 | 229.59 | 2.3294 | 326.75 | 47.172 | 2.8220 | 366.59 |
| #1 | .00007 | .00003 | -.00004 | -.00158 | .00333 | -.00068 | .00246 | -.00119 |
| #2 | -.00009 | .00063 | .00015 | -.00153 | -.00841 | -.00136 | .00256 | .00267 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5690.2** | **71951.** | **4417.7** |
| Stddev | 6.8 | 124. | 48.5 |
| %RSD | .11884 | .17236 | 1.0969 |
| #1 | 5685.4 | 72038. | 4452.0 |
| #2 | 5695.0 | 71863. | 4383.4 |

Sample Name: LCS 280-173386/2-A Acquired: 5/16/2013 12:31:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05459** | **1.9282** | **1.0050** | **1.0508** | **2.0337** | **.04958** | **2.0851** | **49.584** | **.10390** |
| Stddev | .00058 | .0000 | .0000 | .0012 | .0208 | .00025 | .0036 | .426 | .00007 |
| %RSD | 1.0545 | .00043 | .00030 | .11361 | 1.0226 | .50859 | .17253 | .85887 | .06968 |
| #1 | .05500 | 1.9282 | 1.0050 | 1.0516 | 2.0484 | .04976 | 2.0826 | 49.885 | .10385 |
| #2 | .05418 | 1.9282 | 1.0050 | 1.0499 | 2.0190 | .04940 | 2.0877 | 49.283 | .10395 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50332** | **.20044** | **.24974** | **.99009** | **51.128** | **1.0124** | **49.697** | **.49850** | **.99643** |
| Stddev | .00062 | .00044 | .00027 | .00180 | .408 | .0101 | .034 | .00004 | .00245 |
| %RSD | .12381 | .21916 | .10831 | .18180 | .79800 | .99645 | .06881 | .00713 | .24573 |
| #1 | .50376 | .20075 | .24954 | .99136 | 51.416 | 1.0195 | 49.673 | .49848 | .99816 |
| #2 | .50288 | .20013 | .24993 | .98881 | 50.839 | 1.0053 | 49.721 | .49853 | .99469 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.593** | **.49662** | **10.476** | **.50523** | **-.04019** | **.51942** | **2.0822** | **9.9803** | **1.9850** |
| Stddev | .300 | .00133 | .007 | .00148 | .00635 | .00069 | .0000 | .0135 | .0049 |
| %RSD | .57031 | .26687 | .06256 | .29361 | 15.791 | .13344 | .00170 | .13509 | .24677 |
| #1 | 52.805 | .49755 | 10.481 | .50628 | -.03571 | .51991 | 2.0823 | 9.9898 | 1.9885 |
| #2 | 52.381 | .49568 | 10.471 | .50418 | -.04468 | .51893 | 2.0822 | 9.9707 | 1.9815 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0314** | **1.0364** | **1.0030** | **2.0254** | **2.0934** | **.49938** | **.48847** | **.48471** |
| Stddev | .0084 | .0066 | .0007 | .0006 | .0303 | .00044 | .00221 | .00462 |
| %RSD | .81569 | .64067 | .07260 | .03131 | 1.4491 | .08837 | .45269 | .95256 |
| #1 | 1.0373 | 1.0411 | 1.0024 | 2.0249 | 2.0719 | .49969 | .48691 | .48144 |
| #2 | 1.0254 | 1.0317 | 1.0035 | 2.0258 | 2.1148 | .49906 | .49003 | .48797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5581.0** | **69987.** | **4351.7** |
| Stddev | 13.6 | 196. | 19.9 |
| %RSD | .24412 | .28012 | .45628 |
| #1 | 5571.4 | 69848. | 4337.6 |
| #2 | 5590.7 | 70126. | 4365.7 |

Sample Name: 280-41959-D-1-A Acquired: 5/16/2013 12:33:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **1.0679** | **.00406** | **2.3063** | **.04558** | **.00009** | **-.00137** | **15.921** | **.00006** |
| Stddev | .00032 | .0004 | .00061 | .0027 | .00050 | .00009 | .00269 | .056 | .00007 |
| %RSD | 41.113 | .03593 | 15.031 | .11504 | 1.0975 | 95.912 | 197.00 | .35344 | 114.92 |
| #1 | .00056 | 1.0682 | .00449 | 2.3044 | .04593 | .00003 | -.00327 | 15.960 | .00001 |
| #2 | .00101 | 1.0677 | .00363 | 2.3082 | .04523 | .00016 | .00054 | 15.881 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.00217** | **.00194** | **1.3199** | **3.0124** | **.03352** | **18.249** | **.02832** | **.01455** |
| Stddev | .00014 | .00009 | .00027 | .0016 | .0024 | .00171 | .012 | .00010 | .00006 |
| %RSD | 14.553 | 4.2771 | 13.658 | .12282 | .07857 | 5.1114 | .06446 | .33945 | .38413 |
| #1 | .00107 | .00223 | .00176 | 1.3211 | 3.0141 | .03473 | 18.257 | .02825 | .01451 |
| #2 | .00087 | .00210 | .00213 | 1.3188 | 3.0107 | .03230 | 18.241 | .02839 | .01459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **274.28** | **.00286** | **.18026** | **.00104** | **23.854** | **-.00015** | **-.00176** | **6.1743** | **.00037** |
| Stddev | .54 | .00005 | .00016 | .00006 | .002 | .00000 | .00096 | .0421 | .00047 |
| %RSD | .19792 | 1.7672 | .09037 | 5.9724 | .00702 | .39051 | 54.163 | .68211 | 125.83 |
| #1 | 274.66 | .00283 | .18014 | .00108 | 23.853 | -.00015 | -.00244 | 6.2040 | .00004 |
| #2 | 273.89 | .00290 | .18037 | .00099 | 23.855 | -.00015 | -.00109 | 6.1445 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.81727** | **.00172** | **.01238** | **.00033** | **-.00563** | **.00122** | **.00818** | **.00196** |
| Stddev | .00135 | .00192 | .00035 | .00059 | .02450 | .00010 | .00037 | .00002 |
| %RSD | .16516 | 111.33 | 2.8106 | 178.80 | 435.57 | 8.0431 | 4.5497 | 1.2348 |
| #1 | .81823 | .00307 | .01214 | .00075 | -.02295 | .00115 | .00844 | .00194 |
| #2 | .81632 | .00037 | .01263 | -.00009 | .01170 | .00129 | .00792 | .00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5540.5** | **70479.** | **4375.3** |
| Stddev | .3 | 172. | 35.1 |
| %RSD | .00615 | .24399 | .80161 |
| #1 | 5540.3 | 70357. | 4350.5 |
| #2 | 5540.7 | 70600. | 4400.1 |

Sample Name: sd 280-41959-D-1-A@5 Acquired: 5/16/2013 12:36:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.25053** | **.00257** | **.49701** | **.00933** | **-.00011** | **.00030** | **3.5692** | **.00017** |
| Stddev | .00025 | .00050 | .00033 | .00046 | .00023 | .00001 | .00079 | .0061 | .00007 |
| %RSD | 31.994 | .19889 | 12.668 | .09336 | 2.5089 | 13.549 | 261.24 | .17158 | 42.285 |
| #1 | .00097 | .25088 | .00234 | .49668 | .00916 | -.00012 | -.00026 | 3.5736 | .00012 |
| #2 | .00061 | .25018 | .00280 | .49734 | .00949 | -.00010 | .00086 | 3.5649 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00075** | **.00025** | **.29963** | **.60041** | **.00708** | **4.1521** | **.00638** | **.00284** |
| Stddev | .00020 | .00009 | .00021 | .00249 | .01182 | .00180 | .0033 | .00006 | .00003 |
| %RSD | 68.967 | 12.628 | 83.233 | .83021 | 1.9693 | 25.366 | .08038 | 1.0179 | 1.1328 |
| #1 | .00015 | .00068 | .00040 | .30139 | .59205 | .00581 | 4.1497 | .00642 | .00286 |
| #2 | .00043 | .00081 | .00010 | .29787 | .60877 | .00835 | 4.1544 | .00633 | .00282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **61.420** | **.00065** | **.04116** | **.00112** | **4.8848** | **-.00224** | **.00036** | **1.3262** | **-.00025** |
| Stddev | .221 | .00023 | .00088 | .00012 | .0120 | .00166 | .00372 | .0009 | .00126 |
| %RSD | .36022 | 36.004 | 2.1394 | 10.849 | .24463 | 74.066 | 1026.9 | .06490 | 513.45 |
| #1 | 61.576 | .00082 | .04054 | .00120 | 4.8932 | -.00107 | .00299 | 1.3268 | .00064 |
| #2 | 61.263 | .00049 | .04178 | .00103 | 4.8763 | -.00342 | -.00227 | 1.3256 | -.00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18250** | **.00011** | **.00211** | **-.00105** | **-.00288** | **-.00029** | **.00481** | **.00166** |
| Stddev | .00028 | .00021 | .00002 | .00089 | .01059 | .00009 | .00024 | .00231 |
| %RSD | .15447 | 188.86 | .90131 | 84.722 | 367.63 | 29.405 | 5.0112 | 139.45 |
| #1 | .18270 | -.00004 | .00210 | -.00042 | .00461 | -.00023 | .00498 | .00329 |
| #2 | .18230 | .00027 | .00213 | -.00168 | -.01037 | -.00035 | .00464 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5544.5** | **70312.** | **4297.9** |
| Stddev | 11.3 | 63. | 5.3 |
| %RSD | .20393 | .08895 | .12262 |
| #1 | 5536.5 | 70268. | 4294.2 |
| #2 | 5552.5 | 70356. | 4301.6 |

Sample Name: 280-41959-D-1-B MS  Acquired: 5/16/2013 12:38:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05436** | **4.8572** | **.99169** | **3.4231** | **1.9935** | **.04750** | **2.0344** | **63.967** | **.10101** |
| Stddev | .00053 | .0025 | .00150 | .0010 | .0152 | .00028 | .0009 | .291 | .00020 |
| %RSD | .96716 | .05174 | .15083 | .02855 | .76222 | .59622 | .04479 | .45429 | .20288 |
| #1 | .05399 | 4.8590 | .99063 | 3.4238 | 2.0042 | .04770 | 2.0338 | 64.172 | .10087 |
| #2 | .05474 | 4.8554 | .99275 | 3.4224 | 1.9828 | .04730 | 2.0351 | 63.761 | .10116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47832** | **.19205** | **.24269** | **2.5333** | **53.492** | **1.0095** | **66.133** | **.50101** | **.96624** |
| Stddev | .00081 | .00010 | .00067 | .0099 | .190 | .0064 | .081 | .00071 | .00023 |
| %RSD | .16948 | .05110 | .27578 | .39080 | .35592 | .63571 | .12273 | .14114 | .02431 |
| #1 | .47889 | .19198 | .24221 | 2.5403 | 53.627 | 1.0141 | 66.075 | .50051 | .96607 |
| #2 | .47774 | .19212 | .24316 | 2.5263 | 53.358 | 1.0050 | 66.190 | .50151 | .96640 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **337.40** | **.47224** | **10.322** | **.48234** | **24.769** | **.49552** | **2.0303** | **19.221** | **1.8884** |
| Stddev | 1.91 | .00008 | .006 | .00034 | .008 | .00151 | .0052 | .034 | .0014 |
| %RSD | .56754 | .01790 | .05584 | .06997 | .03168 | .30499 | .25577 | .17646 | .07135 |
| #1 | 338.75 | .47230 | 10.326 | .48210 | 24.775 | .49658 | 2.0339 | 19.245 | 1.8874 |
| #2 | 336.05 | .47218 | 10.318 | .48258 | 24.764 | .49445 | 2.0266 | 19.197 | 1.8893 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8439** | **.98917** | **.96490** | **1.9066** | **1.9859** | **.48141** | **.47372** | **.46400** |
| Stddev | .0083 | .00092 | .00300 | .0002 | .0643 | .00063 | .00014 | .00611 |
| %RSD | .44789 | .09351 | .31043 | .01282 | 3.2352 | .13003 | .03021 | 1.3164 |
| #1 | 1.8497 | .98982 | .96278 | 1.9064 | 2.0314 | .48186 | .47382 | .46832 |
| #2 | 1.8380 | .98852 | .96702 | 1.9067 | 1.9405 | .48097 | .47362 | .45968 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5412.9** | **68349.** | **4280.2** |
| Stddev | 4.3 | 150. | 7.6 |
| %RSD | .08031 | .21951 | .17866 |
| #1 | 5409.9 | 68456. | 4285.6 |
| #2 | 5416.0 | 68243. | 4274.8 |

Sample Name: 280-41959-D-1-C MSD Acquired: 5/16/2013 12:41:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05399** | **2.0557** | **.95187** | **3.3394** | **1.9091** | **.04536** | **1.9756** | **61.107** | **.09755** |
| Stddev | .00035 | .0027 | .00228 | .0013 | .0135 | .00001 | .0036 | .480 | .00007 |
| %RSD | .63967 | .13307 | .23982 | .03986 | .70436 | .01921 | .18258 | .78624 | .07453 |
| #1 | .05375 | 2.0577 | .95348 | 3.3403 | 1.8996 | .04536 | 1.9781 | 60.767 | .09750 |
| #2 | .05424 | 2.0538 | .95025 | 3.3384 | 1.9186 | .04535 | 1.9730 | 61.447 | .09760 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45589** | **.17986** | **.23079** | **1.4595** | **51.436** | **.97140** | **62.601** | **.47247** | **.92737** |
| Stddev | .00056 | .00005 | .00261 | .0042 | .499 | .00768 | .421 | .00231 | .00075 |
| %RSD | .12296 | .02522 | 1.1311 | .28475 | .96974 | .79022 | .67283 | .48931 | .08065 |
| #1 | .45628 | .17983 | .23264 | 1.4565 | 51.083 | .96597 | 62.898 | .47410 | .92790 |
| #2 | .45549 | .17989 | .22895 | 1.4624 | 51.788 | .97683 | 62.303 | .47083 | .92684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **328.42** | **.44948** | **9.9734** | **.46531** | **24.210** | **.47970** | **1.9623** | **14.270** | **1.8142** |
| Stddev | 2.18 | .00050 | .0131 | .00100 | .008 | .00389 | .0080 | .052 | .0023 |
| %RSD | .66437 | .11152 | .13162 | .21520 | .03323 | .81062 | .40595 | .36468 | .12920 |
| #1 | 326.87 | .44984 | 9.9827 | .46460 | 24.215 | .47695 | 1.9679 | 14.233 | 1.8158 |
| #2 | 329.96 | .44913 | 9.9642 | .46602 | 24.204 | .48245 | 1.9566 | 14.307 | 1.8125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7632** | **.94485** | **.91125** | **1.8516** | **1.9412** | **.45739** | **.45197** | **.44680** |
| Stddev | .0131 | .00559 | .00421 | .0007 | .0163 | .00338 | .00379 | .00096 |
| %RSD | .74276 | .59163 | .46225 | .03911 | .83997 | .73789 | .83808 | .21476 |
| #1 | 1.7539 | .94880 | .91423 | 1.8521 | 1.9527 | .45978 | .45465 | .44612 |
| #2 | 1.7725 | .94089 | .90827 | 1.8511 | 1.9297 | .45501 | .44929 | .44748 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5319.9** | **67730.** | **4197.7** |
| Stddev | 13.5 | 647. | 39.4 |
| %RSD | .25308 | .95538 | .93772 |
| #1 | 5310.4 | 67272. | 4225.5 |
| #2 | 5329.4 | 68187. | 4169.9 |

Sample Name: pds 280-41959-D-1-A  Acquired: 5/16/2013 12:43:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05319** | **2.1918** | **.20712** | **2.5708** | **.15431** | **.05012** | **-.00121** | **37.543** | **.05258** |
| Stddev | .00047 | .0042 | .00359 | .0017 | .00090 | .00002 | .00126 | .027 | .00013 |
| %RSD | .88226 | .19007 | 1.7341 | .06532 | .58061 | .03389 | 104.18 | .07120 | .25051 |
| #1 | .05352 | 2.1888 | .20966 | 2.5696 | .15494 | .05013 | -.00209 | 37.561 | .05267 |
| #2 | .05286 | 2.1947 | .20458 | 2.5720 | .15368 | .05011 | -.00032 | 37.524 | .05249 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05245** | **.05288** | **.05413** | **2.4882** | **24.051** | **.14190** | **40.193** | **.08214** | **.06731** |
| Stddev | .00007 | .00014 | .00042 | .0000 | .054 | .00125 | .089 | .00018 | .00062 |
| %RSD | .13385 | .26945 | .78509 | .00105 | .22605 | .88243 | .22218 | .21355 | .91498 |
| #1 | .05240 | .05299 | .05443 | 2.4882 | 24.090 | .14102 | 40.256 | .08226 | .06775 |
| #2 | .05250 | .05278 | .05383 | 2.4882 | 24.013 | .14279 | 40.129 | .08202 | .06687 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **318.22** | **.05373** | **2.3361** | **.10420** | **24.795** | **.10571** | **.21301** | **11.848** | **.10303** |
| Stddev | .51 | .00030 | .0078 | .00061 | .010 | .00255 | .00226 | .002 | .00017 |
| %RSD | .15896 | .56059 | .33233 | .58549 | .04121 | 2.4119 | 1.0588 | .01899 | .16222 |
| #1 | 318.58 | .05394 | 2.3415 | .10464 | 24.802 | .10751 | .21460 | 11.846 | .10315 |
| #2 | 317.86 | .05351 | 2.3306 | .10377 | 24.788 | .10391 | .21141 | 11.849 | .10292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95766** | **.21037** | **.06805** | **.20008** | **.52142** | **.05210** | **.21113** | **.05116** |
| Stddev | .00185 | .00141 | .00012 | .00029 | .00307 | .00024 | .00187 | .00182 |
| %RSD | .19267 | .66795 | .17847 | .14714 | .58875 | .45601 | .88428 | 3.5670 |
| #1 | .95897 | .20938 | .06796 | .20029 | .51925 | .05227 | .20981 | .04987 |
| #2 | .95636 | .21136 | .06814 | .19988 | .52359 | .05193 | .21245 | .05245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5382.3** | **67536.** | **4222.8** |
| Stddev | 9.4 | 164. | 14.9 |
| %RSD | .17379 | .24264 | .35350 |
| #1 | 5375.7 | 67421. | 4212.3 |
| #2 | 5388.9 | 67652. | 4233.4 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 12:45:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **51.996** | **.00340** | **.01272** | **.00009** | **.00001** | **1.0547** | **.14715** | **-.00053** | **.00206** | **.00014** | **-.00047** | **51.609** |
| Stddev | .00022 | .294 | .00048 | .00015 | .00014 | .00005 | .0064 | .00132 | .00017 | .00007 | .00032 | .00003 | .167 |
| %RSD | 31.215 | .56578 | 13.981 | 1.1694 | 158.12 | 540.33 | .60800 | .89651 | 32.841 | 3.4535 | 226.79 | 6.4180 | .32396 |
| #1 | .00055 | 51.788 | .00306 | .01262 | -.00001 | -.00003 | 1.0502 | .14621 | -.00065 | .00201 | -.00008 | -.00045 | 51.727 |
| #2 | .00087 | 52.204 | .00374 | .01283 | .00018 | .00004 | 1.0593 | .14808 | -.00040 | .00211 | .00036 | -.00050 | 51.491 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14875** | **.00119** | **.01206** | **.00009** | **-.00225** | **265.01** | **.00125** | **.00770** | **.00023** | **5.2171** | **.00001** | **.00775** | **.00811** |
| Stddev | .00668 | .00326 | .00414 | .00007 | .00025 | 1.25 | .00037 | .00157 | .00019 | .0147 | .00010 | .00157 | .00641 |
| %RSD | 4.4890 | 273.04 | 34.291 | 80.422 | 11.228 | .47195 | 29.552 | 20.365 | 81.442 | .28230 | 1196.2 | 20.254 | 78.992 |
| #1 | .14403 | .00350 | .00914 | .00004 | -.00243 | 264.13 | .00099 | .00660 | .00010 | 5.2067 | -.00006 | .00886 | .00358 |
| #2 | .15347 | -.00111 | .01498 | .00013 | -.00207 | 265.90 | .00151 | .00881 | .00036 | 5.2275 | .00008 | .00664 | .01264 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.00035** | **5.3122** | **.00290** | **-.00328** | **10.622** | **-.00130** | **.02572** | **-.04295** |
| Stddev | .00019 | .00008 | .0081 | .00071 | .00007 | .076 | .00001 | .00011 | .00044 |
| %RSD | 22.603 | 23.964 | .15350 | 24.446 | 2.1236 | .71909 | .95398 | .41134 | 1.0161 |
| #1 | .00100 | .00040 | 5.3180 | .00240 | -.00333 | 10.676 | -.00131 | .02580 | -.04264 |
| #2 | .00072 | .00029 | 5.3064 | .00340 | -.00323 | 10.568 | -.00129 | .02565 | -.04326 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5388.0** | **68024.** | **4211.6** |
| Stddev | 40.8 | 218. | 1.5 |
| %RSD | .75672 | .32028 | .03580 |
| #1 | 5416.8 | 67870. | 4210.5 |
| #2 | 5359.1 | 68178. | 4212.7 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 12:48:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50123** | **.50382** | **.98141** | **.51311** | **.49970** | **.48582** | **-.00136** | **4.9478** | **.49834** | **.50364** | **.49378** | **.49268** | **2.4177** |
| Stddev | .00050 | .00018 | .00255 | .00169 | .00201 | .00155 | .00245 | .0045 | .00003 | .00012 | .00075 | .00042 | .0047 |
| %RSD | .10021 | .03486 | .25947 | .33003 | .40135 | .31999 | 180.78 | .08996 | .00552 | .02413 | .15156 | .08593 | .19648 |
| #1 | .50087 | .50395 | .97961 | .51430 | .50112 | .48692 | -.00309 | 4.9510 | .49832 | .50356 | .49431 | .49298 | 2.4144 |
| #2 | .50158 | .50370 | .98321 | .51191 | .49828 | .48472 | .00038 | 4.9447 | .49836 | .50373 | .49325 | .49238 | 2.4211 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.116** | **1.0095** | **19.579** | **.49499** | **.48973** | **5.0687** | **.49877** | **.99046** | **1.0017** | **-.03362** | **1.0031** | **.99913** | **4.8275** |
| Stddev | .245 | .0098 | .071 | .00140 | .00078 | .0411 | .00050 | .00553 | .0037 | .00765 | .0062 | .00699 | .0104 |
| %RSD | .48882 | .97369 | .36043 | .28273 | .15878 | .81048 | .10033 | .55798 | .37405 | 22.738 | .61269 | .69937 | .21550 |
| #1 | 50.289 | 1.0164 | 19.629 | .49598 | .49028 | 5.0977 | .49913 | .99437 | 1.0043 | -.03903 | 1.0075 | 1.0041 | 4.8201 |
| #2 | 49.943 | 1.0025 | 19.529 | .49400 | .48918 | 5.0396 | .49842 | .98655 | .99901 | -.02822 | .99880 | .99419 | 4.8348 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97806** | **.50609** | **.00272** | **.49200** | **.99766** | **-.01004** | **.48684** | **.48581** | **.48983** |
| Stddev | .00407 | .00167 | .00054 | .00071 | .00780 | .02855 | .00211 | .00219 | .00240 |
| %RSD | .41616 | .33062 | 19.742 | .14450 | .78204 | 284.31 | .43331 | .45109 | .49024 |
| #1 | .98093 | .50727 | .00310 | .49251 | 1.0032 | -.03023 | .48833 | .48736 | .49153 |
| #2 | .97518 | .50491 | .00234 | .49150 | .99214 | .01014 | .48535 | .48426 | .48814 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5464.1** | **68945.** | **4167.9** |
| Stddev | 2.3 | 442. | 25.1 |
| %RSD | .04297 | .64162 | .60257 |
| #1 | 5462.5 | 68632. | 4150.2 |
| #2 | 5465.8 | 69258. | 4185.7 |

Sample Name: CCB Acquired: 5/16/2013 12:50:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **-.00047** | **.00373** | F **.00636** | **-.00044** | **-.00012** | **.00014** | **.00335** | **-.00008** | **.00025** | **.00024** |
| Stddev | .00023 | .00014 | .00133 | .00013 | .00048 | .00010 | .00122 | .00294 | .00019 | .00002 | .00005 |
| %RSD | 35.108 | 29.336 | 35.603 | 2.0077 | 107.84 | 88.074 | 884.44 | 87.605 | 249.18 | 7.3160 | 18.965 |
| #1 | .00048 | -.00037 | .00466 | .00645 | -.00011 | -.00004 | .00100 | .00543 | -.00021 | .00023 | .00027 |
| #2 | .00080 | -.00056 | .00279 | .00627 | -.00078 | -.00019 | -.00073 | .00128 | .00006 | .00026 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **-.00252** | **.05485** | **-.00005** | **-.00003** | **-.00016** | **-.00029** | W **.09354** | **.00002** | **.00168** | **.00245** |
| Stddev | .00048 | .00114 | .07575 | .00169 | .00084 | .00003 | .00033 | .00285 | .00016 | .00112 | .00075 |
| %RSD | 232.89 | 45.379 | 138.09 | 3743.4 | 2574.2 | 21.817 | 111.88 | 3.0511 | 998.39 | 66.324 | 30.621 |
| #1 | .00013 | -.00333 | .00129 | -.00124 | -.00063 | -.00018 | -.00006 | .09152 | -.00010 | .00247 | .00298 |
| #2 | -.00054 | -.00171 | .10842 | .00115 | .00056 | -.00013 | -.00052 | .09556 | .00013 | .00089 | .00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .09160 | | | |
| Low Limit | | | | | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03461** | **-.00118** | **.00483** | **.00809** | **.00006** | **-.00004** | **.00146** | W **-.00083** | **-.00087** | **-.03449** | **-.00090** |
| Stddev | .00173 | .00151 | .00157 | .00648 | .00070 | .00001 | .00110 | .00038 | .00020 | .02721 | .00067 |
| %RSD | 5.0036 | 128.13 | 32.572 | 80.162 | 1114.9 | 30.403 | 75.357 | 45.597 | 22.516 | 78.902 | 74.724 |
| #1 | -.03584 | -.00225 | .00372 | .00350 | -.00043 | -.00003 | .00224 | -.00110 | -.00073 | -.05373 | -.00137 |
| #2 | -.03339 | -.00011 | .00594 | .01267 | .00056 | -.00005 | .00068 | -.00057 | -.00101 | -.01525 | -.00042 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00060 | | | |
| Low Limit | | | | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | **.00105** |
| Stddev | .00016 | .00494 |
| %RSD | 6.3099 | 469.98 |
| #1 | .00270 | .00454 |
| #2 | .00247 | -.00244 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5494.7** | **69113.** | **4153.9** |
| Stddev | 7.8 | 62. | 18.8 |
| %RSD | .14223 | .09017 | .45365 |
| #1 | 5500.2 | 69157. | 4167.2 |
| #2 | 5489.1 | 69069. | 4140.6 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 12:52:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01141** | **.10284** | **.01568** | **.11094** | **.00991** | **.00094** | **.10878** | **.20213** | **.00529** | **.01091** | **.01044** |
| Stddev | .00038 | .00025 | .00207 | .00117 | .00007 | .00013 | .00030 | .00194 | .00010 | .00006 | .00010 |
| %RSD | 3.3467 | .24101 | 13.191 | 1.0569 | .66705 | 14.291 | .27474 | .95975 | 1.9476 | .58758 | .95580 |
| #1 | .01168 | .10266 | .01714 | .11177 | .00986 | .00103 | .10856 | .20076 | .00522 | .01095 | .01051 |
| #2 | .01114 | .10301 | .01422 | .11011 | .00996 | .00084 | .10899 | .20350 | .00536 | .01086 | .01037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01474** | **.09727** | **3.1784** | **.01122** | **.21159** | **.01035** | **.01943** | **1.0876** | **.04234** | **3.0649** | **.00953** |
| Stddev | .00026 | .00217 | .0671 | .00156 | .00120 | .00007 | .00025 | .0107 | .00018 | .0021 | .00127 |
| %RSD | 1.7828 | 2.2258 | 2.1122 | 13.925 | .56657 | .65588 | 1.2740 | .98369 | .42381 | .06815 | 13.326 |
| #1 | .01492 | .09574 | 3.1310 | .01011 | .21244 | .01030 | .01961 | 1.0800 | .04246 | 3.0664 | .00863 |
| #2 | .01455 | .09880 | 3.2259 | .01232 | .21074 | .01040 | .01926 | 1.0952 | .04221 | 3.0635 | .01043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04100** | **.00986** | W **.01813** | **.48800** | **.10225** | **.01060** | **.01623** | **.01004** | **.01591** | F **.08275** | **.00932** |
| Stddev | .00113 | .00216 | .00271 | .00747 | .00073 | .00004 | .00082 | .00026 | .00030 | .04822 | .00035 |
| %RSD | 2.7526 | 21.939 | 14.971 | 1.5309 | .71554 | .37290 | 5.0285 | 2.6295 | 1.8700 | 58.273 | 3.8074 |
| #1 | -.04020 | .00833 | .02005 | .48272 | .10276 | .01058 | .01680 | .01022 | .01570 | .11684 | .00957 |
| #2 | -.04180 | .01139 | .01621 | .49328 | .10173 | .01063 | .01565 | .00985 | .01612 | .04865 | .00907 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | 20.000% | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02394** | **.01550** |
| Stddev | .00024 | .00050 |
| %RSD | .99255 | 3.2284 |
| #1 | .02411 | .01585 |
| #2 | .02377 | .01514 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5551.3** | **70127.** | **4199.6** |
| Stddev | 16.1 | 249. | 13.0 |
| %RSD | .29034 | .35479 | .31065 |
| #1 | 5539.9 | 69951. | 4190.4 |
| #2 | 5562.7 | 70303. | 4208.9 |

Sample Name: 280-41959-D-2-A Acquired: 5/16/2013 12:55:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **.01298** | **.00244** | **.06313** | **.10218** | **.00001** | **.00144** | **54.027** | **-.00008** |
| Stddev | .00047 | .00014 | .00050 | .00007 | .00014 | .00008 | .00000 | .299 | .00011 |
| %RSD | 62.611 | 1.1050 | 20.440 | .11431 | .13473 | 732.24 | .16598 | .55432 | 137.02 |
| #1 | .00108 | .01308 | .00280 | .06308 | .10208 | .00007 | .00144 | 54.239 | -.00016 |
| #2 | .00042 | .01287 | .00209 | .06318 | .10228 | -.00005 | .00144 | 53.815 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00014** | **.01036** | **.01470** | **4.3096** | **-.00171** | **12.475** | **.00719** | **.00266** |
| Stddev | .00005 | .00019 | .00025 | .00057 | .0313 | .00356 | .008 | .00000 | .00005 |
| %RSD | 15.157 | 134.38 | 2.3850 | 3.8713 | .72707 | 208.47 | .06313 | .03626 | 2.0286 |
| #1 | .00034 | .00001 | .01054 | .01430 | 4.3317 | -.00422 | 12.469 | .00718 | .00270 |
| #2 | .00027 | .00028 | .01019 | .01510 | 4.2874 | .00081 | 12.481 | .00719 | .00263 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.010** | **.00103** | **.15095** | **.00197** | **17.232** | **.00052** | **-.00192** | **.08097** | **.00029** |
| Stddev | .076 | .00056 | .00097 | .00121 | .038 | .00099 | .00178 | .03127 | .00065 |
| %RSD | .27083 | 54.645 | .64283 | 61.362 | .21800 | 189.44 | 92.857 | 38.625 | 223.81 |
| #1 | 27.956 | .00143 | .15026 | .00283 | 17.259 | .00122 | -.00066 | .05886 | -.00017 |
| #2 | 28.064 | .00063 | .15164 | .00112 | 17.206 | -.00018 | -.00317 | .10309 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29611** | **.00205** | **-.00043** | **-.00140** | **-.02134** | **.00092** | **.00476** | **.00257** |
| Stddev | .00145 | .00280 | .00040 | .00029 | .00280 | .00018 | .00003 | .00150 |
| %RSD | .49074 | 136.54 | 93.613 | 20.522 | 13.115 | 19.410 | .68834 | 58.307 |
| #1 | .29714 | .00403 | -.00071 | -.00120 | -.01936 | .00080 | .00478 | .00363 |
| #2 | .29508 | .00007 | -.00014 | -.00160 | -.02332 | .00105 | .00473 | .00151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5322.8** | **67184.** | **4072.0** |
| Stddev | 4.3 | 120. | 39.2 |
| %RSD | .08120 | .17822 | .96163 |
| #1 | 5319.7 | 67268. | 4044.3 |
| #2 | 5325.8 | 67099. | 4099.7 |

Sample Name: 280-41959-D-4-A Acquired: 5/16/2013 12:57:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00628** | **.00097** | **2.4072** | **.03239** | **-.00008** | **.00065** | **16.164** | **-.00011** |
| Stddev | .00030 | .00010 | .00228 | .0030 | .00030 | .00010 | .00372 | .006 | .00015 |
| %RSD | 65.278 | 1.5969 | 236.02 | .12498 | .92097 | 129.96 | 573.75 | .03992 | 136.93 |
| #1 | .00066 | .00621 | .00258 | 2.4093 | .03218 | -.00001 | -.00198 | 16.168 | -.00000 |
| #2 | .00024 | .00635 | -.00065 | 2.4051 | .03260 | -.00015 | .00328 | 16.159 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00036** | **-.00029** | **.02361** | **3.2466** | **.02967** | **16.647** | **.00931** | **.00009** |
| Stddev | .00003 | .00013 | .00004 | .00309 | .0240 | .00044 | .005 | .00000 | .00012 |
| %RSD | 9.3276 | 35.600 | 13.894 | 13.096 | .73809 | 1.4713 | .03078 | .03526 | 145.56 |
| #1 | .00036 | .00045 | -.00032 | .02580 | 3.2635 | .02936 | 16.651 | .00931 | -.00000 |
| #2 | .00032 | .00027 | -.00026 | .02143 | 3.2296 | .02998 | 16.644 | .00931 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **317.92** | **.00196** | **.12584** | **.00171** | **48.107** | **-.00254** | **.00452** | **5.3273** | **-.00091** |
| Stddev | .42 | .00035 | .00232 | .00119 | .053 | .00040 | .00019 | .0345 | .00032 |
| %RSD | .13058 | 17.623 | 1.8465 | 69.449 | .10933 | 15.742 | 4.1704 | .64781 | 34.556 |
| #1 | 318.21 | .00220 | .12748 | .00087 | 48.144 | -.00282 | .00439 | 5.3517 | -.00114 |
| #2 | 317.63 | .00171 | .12420 | .00255 | 48.069 | -.00225 | .00466 | 5.3029 | -.00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86200** | **.00108** | **-.00065** | **-.00045** | **-.02779** | **-.00056** | **.00389** | **.00105** |
| Stddev | .00161 | .00212 | .00038 | .00139 | .00084 | .00024 | .00001 | .00275 |
| %RSD | .18733 | 195.63 | 58.007 | 307.36 | 3.0152 | 42.322 | .22255 | 261.74 |
| #1 | .86086 | .00259 | -.00091 | .00053 | -.02720 | -.00039 | .00390 | -.00090 |
| #2 | .86314 | -.00042 | -.00038 | -.00143 | -.02839 | -.00073 | .00388 | .00300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5189.5** | **66164.** | **3951.0** |
| Stddev | 8.2 | 253. | 3.0 |
| %RSD | .15811 | .38228 | .07702 |
| #1 | 5183.7 | 65985. | 3948.9 |
| #2 | 5195.3 | 66342. | 3953.2 |

Sample Name: 280-41981-B-3-A Acquired: 5/16/2013 13:00:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00317** | **.00117** | **.20737** | **.04500** | **-.00011** | **-.00251** | **90.950** | **.00030** |
| Stddev | .00053 | .00010 | .00025 | .00075 | .00042 | .00002 | .00202 | .656 | .00020 |
| %RSD | 65.869 | 3.2637 | 21.589 | .35928 | .92916 | 17.198 | 80.393 | .72101 | 65.615 |
| #1 | .00119 | .00325 | .00099 | .20790 | .04529 | -.00013 | -.00108 | 91.414 | .00044 |
| #2 | .00043 | .00310 | .00135 | .20685 | .04470 | -.00010 | -.00394 | 90.486 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00036** | **.00160** | **.01770** | **15.969** | **.00322** | **11.456** | **.00286** | **.00019** |
| Stddev | .00039 | .00012 | .00003 | .00219 | .175 | .00158 | .016 | .00003 | .00007 |
| %RSD | 116.16 | 33.645 | 1.8425 | 12.366 | 1.0982 | 48.939 | .13825 | 1.2133 | 39.501 |
| #1 | .00006 | .00027 | .00158 | .01616 | 16.093 | .00211 | 11.467 | .00289 | .00024 |
| #2 | .00061 | .00044 | .00162 | .01925 | 15.845 | .00434 | 11.445 | .00284 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **39.463** | **.00039** | **.14470** | **.00183** | **74.164** | **.00117** | **.00217** | **2.7754** | **-.00004** |
| Stddev | .556 | .00023 | .00102 | .00063 | .003 | .00069 | .00380 | .0021 | .00043 |
| %RSD | 1.4094 | 58.646 | .70617 | 34.371 | .00350 | 58.870 | 174.99 | .07690 | 983.77 |
| #1 | 39.856 | .00023 | .14542 | .00227 | 74.162 | .00166 | .00486 | 2.7738 | -.00035 |
| #2 | 39.070 | .00055 | .14398 | .00138 | 74.166 | .00069 | -.00052 | 2.7769 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0812** | **.00262** | **-.00001** | **-.00090** | **-.02622** | **-.00062** | **.57747** | **.00113** |
| Stddev | .0065 | .00072 | .00043 | .00050 | .00364 | .00052 | .00201 | .00173 |
| %RSD | .59741 | 27.397 | 3688.3 | 54.919 | 13.878 | 84.220 | .34854 | 153.80 |
| #1 | 1.0857 | .00313 | .00029 | -.00126 | -.02879 | -.00025 | .57605 | .00235 |
| #2 | 1.0766 | .00212 | -.00031 | -.00055 | -.02365 | -.00099 | .57890 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5401.9** | **67590.** | **4101.3** |
| Stddev | 31.3 | 38. | 78.8 |
| %RSD | .57890 | .05624 | 1.9206 |
| #1 | 5379.8 | 67617. | 4045.6 |
| #2 | 5424.0 | 67563. | 4157.0 |

Sample Name: 280-41981-B-5-A Acquired: 5/16/2013 13:02:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173386 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00080** | **.17748** | **.00346** | **.04369** | **.11652** | **-.00006** | **-.00191** | **30.685** | **.00000** |
| Stddev | .00035 | .00091 | .00030 | .00018 | .00040 | .00009 | .00212 | .089 | .00005 |
| %RSD | 44.171 | .51291 | 8.7782 | .40072 | .34259 | 152.01 | 111.22 | .28972 | 2376.5 |
| #1 | .00055 | .17812 | .00325 | .04381 | .11624 | .00000 | -.00041 | 30.622 | -.00004 |
| #2 | .00105 | .17683 | .00368 | .04356 | .11681 | -.00012 | -.00341 | 30.748 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00035** | **.00166** | **.14726** | **3.9995** | **-.00141** | **3.8845** | **.01406** | **.00072** |
| Stddev | .00016 | .00020 | .00067 | .00005 | .0186 | .00047 | .0010 | .00006 | .00005 |
| %RSD | 32.512 | 58.022 | 40.407 | .03125 | .46390 | 33.626 | .02436 | .43351 | 6.7446 |
| #1 | .00038 | .00049 | .00214 | .14730 | 4.0126 | -.00174 | 3.8839 | .01402 | .00076 |
| #2 | .00061 | .00021 | .00119 | .14723 | 3.9864 | -.00107 | 3.8852 | .01411 | .00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.5092** | **.00172** | **.15222** | **.00152** | **3.8289** | **-.00080** | **.00093** | **2.1850** | **-.00033** |
| Stddev | .0076 | .00005 | .00003 | .00056 | .0136 | .00063 | .00108 | .0200 | .00026 |
| %RSD | .11634 | 3.1618 | .02081 | 37.145 | .35530 | 78.550 | 116.65 | .91635 | 78.468 |
| #1 | 6.5146 | .00168 | .15224 | .00112 | 3.8386 | -.00124 | .00016 | 2.1992 | -.00051 |
| #2 | 6.5039 | .00175 | .15220 | .00192 | 3.8193 | -.00036 | .00169 | 2.1708 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21535** | **-.00006** | **.00197** | **-.00164** | **-.03511** | **.00015** | **.01302** | **.00302** |
| Stddev | .00110 | .00209 | .00033 | .00036 | .00734 | .00099 | .00013 | .00064 |
| %RSD | .51001 | 3709.6 | 16.755 | 21.936 | 20.906 | 642.65 | 1.0004 | 21.045 |
| #1 | .21457 | .00142 | .00220 | -.00189 | -.04030 | -.00054 | .01293 | .00347 |
| #2 | .21612 | -.00154 | .00173 | -.00139 | -.02992 | .00085 | .01311 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5485.9** | **69076.** | **4216.1** |
| Stddev | 18.8 | 104. | 6.6 |
| %RSD | .34257 | .15065 | .15748 |
| #1 | 5472.7 | 69003. | 4211.4 |
| #2 | 5499.2 | 69150. | 4220.8 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 13:04:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **51.613** | **-.00058** | **.00462** | **.00039** | **-.00002** | **1.0288** | **.00267** | **-.00064** | **.00192** | **-.00014** | **-.00100** | **50.479** |
| Stddev | .00099 | .283 | .00353 | .00011 | .00000 | .00002 | .0003 | .00790 | .00016 | .00009 | .00008 | .00065 | .110 |
| %RSD | 142.26 | .54750 | 610.62 | 2.3459 | .11355 | 84.789 | .03086 | 295.85 | 24.467 | 4.6349 | 58.620 | 64.868 | .21717 |
| #1 | .00139 | 51.413 | -.00307 | .00454 | .00039 | -.00004 | 1.0286 | -.00292 | -.00053 | .00198 | -.00008 | -.00145 | 50.402 |
| #2 | -.00000 | 51.812 | .00192 | .00469 | .00039 | -.00001 | 1.0290 | .00826 | -.00075 | .00185 | -.00020 | -.00054 | 50.557 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04851** | **-.00072** | **.00883** | **-.00011** | **-.00215** | **262.11** | **.00104** | **.00776** | **.00322** | **5.0965** | **-.00294** | **.00592** | **.01001** |
| Stddev | .02568 | .00467 | .00578 | .00001 | .00046 | .28 | .00014 | .00109 | .00063 | .0275 | .00300 | .00107 | .00452 |
| %RSD | 52.939 | 652.49 | 65.430 | 5.0110 | 21.408 | .10615 | 13.515 | 14.023 | 19.528 | .53946 | 102.05 | 18.091 | 45.197 |
| #1 | .03035 | -.00401 | .00474 | -.00011 | -.00183 | 261.91 | .00094 | .00699 | .00278 | 5.1159 | -.00082 | .00668 | .01321 |
| #2 | .06667 | .00258 | .01291 | -.00011 | -.00248 | 262.30 | .00114 | .00853 | .00367 | 5.0771 | -.00506 | .00516 | .00681 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.00043** | **5.2311** | **.00269** | **-.00180** | **10.407** | **-.00157** | **.00258** | **-.04702** |
| Stddev | .00027 | .00021 | .0011 | .00002 | .00079 | .063 | .00033 | .00059 | .00331 |
| %RSD | 27.593 | 49.380 | .02114 | .72355 | 44.030 | .60859 | 21.098 | 22.953 | 7.0301 |
| #1 | .00079 | .00028 | 5.2319 | .00268 | -.00124 | 10.362 | -.00133 | .00300 | -.04936 |
| #2 | .00117 | .00058 | 5.2303 | .00270 | -.00235 | 10.452 | -.00180 | .00216 | -.04468 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5305.8** | **66690.** | **4102.6** |
| Stddev | 11.0 | 240. | 3.1 |
| %RSD | .20794 | .35994 | .07589 |
| #1 | 5298.0 | 66859. | 4104.8 |
| #2 | 5313.6 | 66520. | 4100.4 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 13:07:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51009** | **.51199** | **.98489** | **.51296** | **.50142** | **.48661** | **.00185** | **4.9832** | **.50211** | **.51164** | **.49761** | **.49460** | **2.4225** |
| Stddev | .00069 | .00135 | .00083 | .00061 | .00191 | .00267 | .00435 | .0141 | .00011 | .00208 | .00066 | .00017 | .0121 |
| %RSD | .13447 | .26288 | .08455 | .11960 | .38120 | .54783 | 234.46 | .28340 | .02112 | .40593 | .13323 | .03394 | .49943 |
| #1 | .51057 | .51104 | .98548 | .51339 | .50277 | .48850 | .00493 | 4.9932 | .50219 | .51311 | .49714 | .49471 | 2.4310 |
| #2 | .50960 | .51294 | .98431 | .51252 | .50007 | .48473 | -.00122 | 4.9732 | .50204 | .51017 | .49808 | .49448 | 2.4139 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.684** | **1.0214** | **19.803** | **.50118** | **.49355** | **5.0519** | **.50467** | **1.0027** | **1.0131** | **-.03575** | **1.0084** | **1.0107** | **4.8702** |
| Stddev | .182 | .0036 | .010 | .00008 | .00197 | .0213 | .00275 | .0052 | .0029 | .00170 | .0031 | .0055 | .0353 |
| %RSD | .35850 | .34862 | .05169 | .01562 | .39950 | .42170 | .54395 | .51781 | .29002 | 4.7614 | .30650 | .54506 | .72557 |
| #1 | 50.812 | 1.0239 | 19.810 | .50123 | .49495 | 5.0669 | .50661 | 1.0064 | 1.0151 | -.03455 | 1.0106 | 1.0146 | 4.8952 |
| #2 | 50.555 | 1.0189 | 19.795 | .50112 | .49216 | 5.0368 | .50273 | .99904 | 1.0110 | -.03696 | 1.0062 | 1.0068 | 4.8452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98687** | **.51145** | **.00356** | **.50030** | **1.0022** | **-.02402** | **.49160** | **.49455** | **.48965** |
| Stddev | .00572 | .00247 | .00082 | .00049 | .0074 | .03188 | .00147 | .00197 | .00055 |
| %RSD | .57927 | .48299 | 23.162 | .09820 | .74245 | 132.73 | .29824 | .39779 | .11175 |
| #1 | .99091 | .51319 | .00414 | .50065 | 1.0075 | -.00148 | .49263 | .49594 | .49003 |
| #2 | .98283 | .50970 | .00297 | .49995 | .99693 | -.04656 | .49056 | .49316 | .48926 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5329.9** | **67054.** | **4036.9** |
| Stddev | 2.2 | 39. | 35.2 |
| %RSD | .04203 | .05779 | .87264 |
| #1 | 5331.5 | 67026. | 4012.0 |
| #2 | 5328.3 | 67081. | 4061.8 |

Sample Name: CCB Acquired: 5/16/2013 13:09:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00110** | **.00206** | **.00380** | W **.00296** | **-.00004** | **.00000** | **-.00284** | **.02595** | **-.00000** | **.00012** | **-.00002** |
| Stddev | .00014 | .00028 | .00165 | .00043 | .00010 | .00003 | .00200 | .00014 | .00002 | .00019 | .00009 |
| %RSD | 13.140 | 13.556 | 43.410 | 14.378 | 222.46 | 4448.1 | 70.285 | .52368 | 363.41 | 154.22 | 429.29 |
| #1 | .00120 | .00226 | .00264 | .00326 | -.00011 | -.00002 | -.00425 | .02585 | .00001 | .00026 | .00004 |
| #2 | .00100 | .00186 | .00497 | .00266 | .00002 | .00002 | -.00143 | .02604 | -.00002 | -.00001 | -.00009 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00156 | | | | | | | |
| Low Limit | -.00093 | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00087** | **.00193** | **-.00368** | **-.00167** | **.00197** | **-.00005** | **-.00027** | **.03454** | **-.00003** | **.00052** | **.00167** |
| Stddev | .00001 | .00146 | .07691 | .00129 | .00111 | .00005 | .00041 | .00323 | .00044 | .00150 | .00151 |
| %RSD | .62867 | 75.635 | 2092.4 | 76.907 | 56.409 | 96.582 | 152.29 | 9.3613 | 1311.2 | 286.87 | 90.014 |
| #1 | -.00087 | .00296 | .05071 | -.00258 | .00118 | -.00009 | -.00056 | .03683 | .00028 | .00159 | .00274 |
| #2 | -.00087 | .00090 | -.05806 | -.00076 | .00275 | -.00002 | .00002 | .03226 | -.00034 | -.00054 | .00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03520** | **-.00140** | **-.00251** | **.01205** | **.00013** | **.00009** | **.00153** | **-.00028** | **-.00035** | **-.02988** | **-.00027** |
| Stddev | .00159 | .00058 | .00184 | .00171 | .00113 | .00002 | .00072 | .00030 | .00065 | .00082 | .00018 |
| %RSD | 4.5304 | 41.709 | 73.193 | 14.192 | 873.76 | 21.279 | 47.193 | 106.98 | 183.88 | 2.7529 | 65.141 |
| #1 | -.03633 | -.00182 | -.00121 | .01084 | -.00067 | .00008 | .00204 | -.00007 | -.00081 | -.02929 | -.00039 |
| #2 | -.03407 | -.00099 | -.00382 | .01326 | .00093 | .00011 | .00102 | -.00049 | .00011 | -.03046 | -.00015 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.00533** | **-.00124** |
| Stddev | .00021 | .00261 |
| %RSD | 3.8593 | 210.42 |
| #1 | .00519 | -.00308 |
| #2 | .00548 | .00060 |
| Check ? | Chk Warn | Chk Pass |
| High Limit | .00453 | |
| Low Limit | -.00453 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5367.7** | **67666.** | **3975.4** |
| Stddev | 3.4 | 140. | 11.8 |
| %RSD | .06321 | .20617 | .29594 |
| #1 | 5365.3 | 67567. | 3967.0 |
| #2 | 5370.1 | 67764. | 3983.7 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 13:12:07 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01127** | **.10274** | W **.01821** | **.10723** | **.00955** | **.00095** | **.10705** | **.20772** | **.00521** | **.01094** | **.01026** |
| Stddev | .00022 | .00026 | .00353 | .00105 | .00037 | .00008 | .00019 | .00306 | .00004 | .00020 | .00024 |
| %RSD | 1.9355 | .25372 | 19.385 | .98016 | 3.8585 | 8.2077 | .17457 | 1.4720 | .68928 | 1.7974 | 2.3479 |
| #1 | .01111 | .10256 | .01572 | .10797 | .00929 | .00089 | .10718 | .20556 | .00519 | .01107 | .01043 |
| #2 | .01142 | .10293 | .02071 | .10649 | .00981 | .00100 | .10692 | .20988 | .00524 | .01080 | .01009 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01456** | **.09771** | **3.2253** | **.00978** | **.21047** | **.01029** | **.01937** | **1.0281** | **.04189** | **3.0425** | **.01079** |
| Stddev | .00024 | .00137 | .0081 | .00241 | .00088 | .00008 | .00021 | .0056 | .00032 | .0085 | .00156 |
| %RSD | 1.6371 | 1.4014 | .25149 | 24.592 | .41908 | .81485 | 1.1017 | .54154 | .75523 | .28011 | 14.455 |
| #1 | .01439 | .09868 | 3.2311 | .01149 | .20984 | .01034 | .01922 | 1.0242 | .04211 | 3.0485 | .00968 |
| #2 | .01472 | .09674 | 3.2196 | .00808 | .21109 | .01023 | .01952 | 1.0321 | .04167 | 3.0365 | .01189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03555** | **.01030** | **.01664** | **.48986** | **.10061** | **.01052** | **.01499** | **.00993** | **.01451** | **.06050** | **.00877** |
| Stddev | .00303 | .00167 | .00093 | .00315 | .00039 | .00007 | .00024 | .00036 | .00039 | .02511 | .00096 |
| %RSD | 8.5207 | 16.209 | 5.6096 | .64294 | .38952 | .70837 | 1.6167 | 3.5905 | 2.6705 | 41.502 | 10.892 |
| #1 | -.03341 | .01148 | .01730 | .48763 | .10034 | .01046 | .01516 | .00968 | .01424 | .04274 | .00945 |
| #2 | -.03770 | .00912 | .01598 | .49209 | .10089 | .01057 | .01482 | .01018 | .01479 | .07825 | .00810 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02348** | **.01732** |
| Stddev | .00028 | .00289 |
| %RSD | 1.2001 | 16.659 |
| #1 | .02328 | .01936 |
| #2 | .02368 | .01528 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5415.6** | **68231.** | **4050.9** |
| Stddev | 4.5 | 251. | 41.8 |
| %RSD | .08367 | .36841 | 1.0320 |
| #1 | 5412.4 | 68054. | 4080.5 |
| #2 | 5418.9 | 68409. | 4021.4 |

Sample Name: MB 280-173375/1-A Acquired: 5/16/2013 13:14:31 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **.00271** | **.00199** | **.00223** | **-.00029** | **.00010** | **-.00401** | **.00180** | **.00007** |
| Stddev | .00036 | .00005 | .00061 | .00024 | .00022 | .00009 | .00054 | .00046 | .00007 |
| %RSD | 50.507 | 1.7164 | 30.435 | 10.599 | 77.277 | 81.777 | 13.360 | 25.275 | 100.07 |
| #1 | .00096 | .00268 | .00242 | .00239 | -.00013 | .00017 | -.00363 | .00212 | .00012 |
| #2 | .00046 | .00275 | .00156 | .00206 | -.00045 | .00004 | -.00439 | .00148 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.00028** | **-.00045** | W **.04541** | **-.04820** | **-.00131** | **.00459** | **.00010** | **-.00011** |
| Stddev | .00006 | .00019 | .00067 | .00067 | .00237 | .00008 | .00103 | .00001 | .00001 |
| %RSD | 28.314 | 69.386 | 148.08 | 1.4699 | 4.9142 | 5.9040 | 22.513 | 5.3970 | 4.9592 |
| #1 | -.00024 | .00014 | .00002 | .04493 | -.04988 | -.00126 | .00386 | .00010 | -.00011 |
| #2 | -.00016 | .00042 | -.00092 | .04588 | -.04653 | -.00137 | .00532 | .00011 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02847** | **-.00006** | F **.16286** | **.00045** | **-.03887** | **-.00234** | **.00103** | **.02588** | **-.00001** |
| Stddev | .01203 | .00020 | .00183 | .00036 | .00268 | .00087 | .00042 | .00655 | .00013 |
| %RSD | 42.256 | 323.66 | 1.1249 | 80.086 | 6.8909 | 37.259 | 41.101 | 25.297 | 906.55 |
| #1 | .03698 | -.00021 | .16416 | .00019 | -.03698 | -.00172 | .00073 | .03051 | -.00011 |
| #2 | .01996 | .00008 | .16157 | .00070 | -.04077 | -.00296 | .00132 | .02125 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00266** | **-.00016** | **-.00182** | **-.02488** | **-.00013** | **.00269** | **.00054** |
| Stddev | .00003 | .00179 | .00005 | .00055 | .04993 | .00016 | .00002 | .00163 |
| %RSD | 66.621 | 67.225 | 32.953 | 30.024 | 200.65 | 119.06 | .80517 | 303.84 |
| #1 | -.00006 | .00393 | -.00013 | -.00143 | .01042 | -.00002 | .00267 | -.00062 |
| #2 | -.00002 | .00140 | -.00020 | -.00221 | -.06019 | -.00025 | .00271 | .00169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5354.5** | **67810.** | **4026.5** |
| Stddev | 1.4 | 59. | 39.7 |
| %RSD | .02705 | .08753 | .98716 |
| #1 | 5355.5 | 67852. | 3998.4 |
| #2 | 5353.5 | 67768. | 4054.6 |

Sample Name: LCS 280-173375/2-A Acquired: 5/16/2013 13:17:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05251** | **1.9379** | **1.0046** | **1.0390** | **2.0273** | **.04964** | **2.0624** | **49.067** | **.10416** |
| Stddev | .00000 | .0032 | .0003 | .0007 | .0088 | .00028 | .0062 | .315 | .00019 |
| %RSD | .00856 | .16564 | .02691 | .06962 | .43139 | .56886 | .29804 | .64183 | .17859 |
| #1 | .05251 | 1.9401 | 1.0044 | 1.0385 | 2.0334 | .04984 | 2.0581 | 49.289 | .10429 |
| #2 | .05251 | 1.9356 | 1.0048 | 1.0395 | 2.0211 | .04944 | 2.0668 | 48.844 | .10403 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50404** | **.20069** | **.24811** | **.96910** | **51.266** | **1.0168** | **49.647** | **.49861** | **.99082** |
| Stddev | .00023 | .00020 | .00100 | .00472 | .344 | .0039 | .033 | .00003 | .00034 |
| %RSD | .04473 | .09770 | .40403 | .48704 | .67021 | .38671 | .06653 | .00682 | .03454 |
| #1 | .50420 | .20083 | .24740 | .97243 | 51.509 | 1.0196 | 49.670 | .49859 | .99058 |
| #2 | .50388 | .20055 | .24882 | .96576 | 51.023 | 1.0140 | 49.624 | .49864 | .99107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.231** | **.49697** | **10.531** | **.50641** | **-.04422** | **.51083** | **2.0634** | **9.9680** | **1.9672** |
| Stddev | .154 | .00086 | .016 | .00074 | .00617 | .00238 | .0060 | .0132 | .0019 |
| %RSD | .28836 | .17343 | .15559 | .14636 | 13.964 | .46631 | .29267 | .13257 | .09776 |
| #1 | 53.122 | .49758 | 10.519 | .50693 | -.04859 | .50914 | 2.0591 | 9.9587 | 1.9659 |
| #2 | 53.339 | .49636 | 10.543 | .50589 | -.03985 | .51251 | 2.0677 | 9.9774 | 1.9686 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0210** | **1.0248** | **.99849** | **1.9970** | **2.0682** | **.50006** | **.49113** | **.48573** |
| Stddev | .0046 | .0010 | .00045 | .0035 | .0057 | .00086 | .00092 | .00088 |
| %RSD | .44845 | .09797 | .04518 | .17527 | .27424 | .17251 | .18736 | .18210 |
| #1 | 1.0243 | 1.0241 | .99817 | 1.9946 | 2.0722 | .49945 | .49048 | .48636 |
| #2 | 1.0178 | 1.0255 | .99881 | 1.9995 | 2.0641 | .50067 | .49178 | .48510 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5287.6** | **66427.** | **4040.0** |
| Stddev | 36.8 | 134. | 23.7 |
| %RSD | .69687 | .20099 | .58618 |
| #1 | 5261.5 | 66333. | 4023.3 |
| #2 | 5313.6 | 66522. | 4056.8 |

Sample Name: 280-41959-C-1-A  Acquired: 5/16/2013 13:19:16  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00256** | **14.790** | **.00841** | **2.6064** | **.13809** | **.00171** | **-.00297** | **36.295** | **.00029** |
| Stddev | .00013 | .073 | .00123 | .0090 | .00056 | .00004 | .00463 | .185 | .00008 |
| %RSD | 5.2096 | .49043 | 14.674 | .34485 | .40228 | 2.3853 | 156.10 | .51014 | 29.269 |
| #1 | .00247 | 14.842 | .00754 | 2.6001 | .13848 | .00169 | -.00625 | 36.426 | .00035 |
| #2 | .00265 | 14.739 | .00928 | 2.6128 | .13770 | .00174 | .00031 | 36.164 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01151** | **.02182** | **.01807** | **25.393** | **5.4812** | **.06361** | **26.537** | **.47318** | **.00905** |
| Stddev | .00014 | .00008 | .00014 | .116 | .0081 | .00254 | .000 | .00013 | .00016 |
| %RSD | 1.1881 | .38541 | .75805 | .45706 | .14767 | 4.0001 | .00148 | .02658 | 1.7194 |
| #1 | .01161 | .02176 | .01816 | 25.476 | 5.4755 | .06541 | 26.536 | .47310 | .00894 |
| #2 | .01142 | .02188 | .01797 | 25.311 | 5.4870 | .06182 | 26.537 | .47327 | .00916 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **316.04** | **.08826** | **.90336** | **.01478** | **22.628** | **-.00177** | **.00076** | **26.197** | **.00182** |
| Stddev | .85 | .00017 | .00126 | .00038 | .030 | .00170 | .00290 | .026 | .00087 |
| %RSD | .26848 | .19281 | .13953 | 2.6035 | .13295 | 96.451 | 384.01 | .09888 | 47.584 |
| #1 | 316.64 | .08814 | .90425 | .01451 | 22.607 | -.00056 | .00281 | 26.179 | .00121 |
| #2 | 315.44 | .08838 | .90247 | .01505 | 22.650 | -.00297 | -.00130 | 26.216 | .00243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99965** | **.01941** | **.12455** | **-.00050** | **-.01460** | **.01964** | **.07227** | **.00574** |
| Stddev | .00420 | .00114 | .00037 | .00131 | .03334 | .00027 | .00015 | .00019 |
| %RSD | .42043 | 5.8718 | .29711 | 258.74 | 228.31 | 1.3991 | .21207 | 3.3865 |
| #1 | 1.0026 | .02022 | .12481 | -.00143 | -.03818 | .01945 | .07238 | .00560 |
| #2 | .99668 | .01861 | .12429 | .00042 | .00897 | .01984 | .07217 | .00588 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5401.0** | **67473.** | **4213.5** |
| Stddev | 13.5 | 17. | 52.7 |
| %RSD | .24956 | .02551 | 1.2497 |
| #1 | 5391.5 | 67461. | 4176.2 |
| #2 | 5410.5 | 67485. | 4250.7 |

Sample Name: sd 280-41959-C-1-A@5 Acquired: 5/16/2013 13:21:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | W **2.7954** | W **3.0677** | **.00263** | **.53519** | **.02758** | **.00037** | **-.00102** | **7.5549** |
| Stddev | .00016 | .0019 | .0016 | .00087 | .00043 | .00038 | .00001 | .00051 | .0191 |
| %RSD | 15.785 | .06905 | .05325 | 32.996 | .07988 | 1.3709 | 4.0315 | 50.000 | .25249 |
| #1 | .00109 | 2.7940 | 3.0665 | .00202 | .53549 | .02785 | .00038 | -.00137 | 7.5414 |
| #2 | .00087 | 2.7968 | 3.0688 | .00325 | .53489 | .02732 | .00036 | -.00066 | 7.5683 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.7000 | 500.00 | | | | | | |
| Low Limit | | -.05000 | 4.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00255** | **.00467** | **.00307** | **5.2851** | **1.1610** | **.01343** | **5.4534** | **.09677** |
| Stddev | .00015 | .00009 | .00002 | .00037 | .0035 | .0095 | .00089 | .0070 | .00008 |
| %RSD | 118.28 | 3.4001 | .44845 | 12.026 | .06684 | .81747 | 6.6074 | .12803 | .07794 |
| #1 | .00023 | .00249 | .00466 | .00333 | 5.2876 | 1.1543 | .01406 | 5.4584 | .09672 |
| #2 | .00002 | .00262 | .00469 | .00281 | 5.2826 | 1.1677 | .01280 | 5.4485 | .09683 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00154** | **66.041** | **.01821** | **.18203** | **.00343** | **4.4678** | **-.00196** | **-.00167** | **5.2691** |
| Stddev | .00014 | .150 | .00030 | .00119 | .00174 | .0090 | .00115 | .00072 | .0082 |
| %RSD | 9.1674 | .22718 | 1.6559 | .65271 | 50.702 | .20100 | 58.670 | 43.235 | .15560 |
| #1 | .00144 | 65.935 | .01842 | .18287 | .00467 | 4.4742 | -.00115 | -.00116 | 5.2749 |
| #2 | .00164 | 66.147 | .01799 | .18119 | .00220 | 4.4615 | -.00278 | -.00219 | 5.2633 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.20457** | **.00449** | **.02441** | **-.00137** | **.00224** | **.00366** | **.01727** | **.00040** |
| Stddev | .00004 | .00015 | .00007 | .00015 | .00107 | .02612 | .00020 | .00049 | .00187 |
| %RSD | 5.9054 | .07395 | 1.5376 | .62533 | 77.788 | 1164.9 | 5.3416 | 2.8476 | 470.35 |
| #1 | .00062 | .20468 | .00454 | .02452 | -.00062 | -.01623 | .00380 | .01692 | .00172 |
| #2 | .00068 | .20447 | .00444 | .02431 | -.00213 | .02071 | .00352 | .01762 | -.00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5450.0** | **68775.** | **4192.0** |
| Stddev | 13.6 | 436. | 26.9 |
| %RSD | .24933 | .63364 | .64164 |
| #1 | 5459.6 | 68467. | 4173.0 |
| #2 | 5440.4 | 69083. | 4211.1 |

Sample Name: 280-41959-C-1-B MS  Acquired: 5/16/2013 13:24:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05651** | **35.120** | **1.0439** | **3.7115** | **2.2533** | **.05189** | **2.0918** | **87.527** | **.10662** |
| Stddev | .00065 | .093 | .0040 | .0003 | .0062 | .00029 | .0031 | .209 | .00020 |
| %RSD | 1.1518 | .26360 | .37891 | .00841 | .27479 | .56388 | .15025 | .23884 | .18782 |
| #1 | .05605 | 35.185 | 1.0467 | 3.7117 | 2.2576 | .05209 | 2.0896 | 87.675 | .10676 |
| #2 | .05697 | 35.054 | 1.0411 | 3.7113 | 2.2489 | .05168 | 2.0940 | 87.379 | .10648 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52023** | **.23475** | **.27642** | **30.028** | **60.590** | **1.1171** | **78.589** | **.99598** | **1.0072** |
| Stddev | .00062 | .00089 | .00091 | .086 | .154 | .0036 | .093 | .00077 | .0009 |
| %RSD | .12008 | .37821 | .32861 | .28782 | .25394 | .32124 | .11831 | .07777 | .09277 |
| #1 | .52068 | .23412 | .27578 | 30.090 | 60.699 | 1.1196 | 78.654 | .99653 | 1.0079 |
| #2 | .51979 | .23537 | .27706 | 29.967 | 60.481 | 1.1146 | 78.523 | .99543 | 1.0065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **376.93** | **.52865** | **11.463** | **.51721** | **23.014** | **.48276** | **2.1026** | W **58.877** | **1.8365** |
| Stddev | 1.57 | .00082 | .013 | .00240 | .012 | .00109 | .0024 | .440 | .0015 |
| %RSD | .41735 | .15500 | .11739 | .46471 | .05112 | .22652 | .11475 | .74755 | .08211 |
| #1 | 378.04 | .52923 | 11.473 | .51891 | 23.022 | .48354 | 2.1009 | 59.188 | 1.8354 |
| #2 | 375.82 | .52807 | 11.454 | .51551 | 23.006 | .48199 | 2.1043 | 58.566 | 1.8376 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 50.000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0890** | **1.0696** | **1.1966** | **1.9487** | **2.1098** | **.54501** | **.57114** | **.50517** |
| Stddev | .0045 | .0038 | .0019 | .0015 | .0420 | .00201 | .00011 | .00039 |
| %RSD | .21582 | .35838 | .15731 | .07858 | 1.9922 | .36861 | .01908 | .07811 |
| #1 | 2.0922 | 1.0723 | 1.1980 | 1.9476 | 2.1396 | .54643 | .57107 | .50489 |
| #2 | 2.0858 | 1.0669 | 1.1953 | 1.9498 | 2.0801 | .54359 | .57122 | .50545 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5238.0** | **66181.** | **4074.3** |
| Stddev | .8 | 131. | 40.1 |
| %RSD | .01587 | .19782 | .98324 |
| #1 | 5238.6 | 66089. | 4046.0 |
| #2 | 5237.4 | 66274. | 4102.6 |

Sample Name: 280-41959-C-1-C MSD Acquired: 5/16/2013 13:26:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05572** | **34.434** | **1.0278** | **3.7162** | **2.2327** | **.05139** | **2.0663** | **87.267** | **.10557** |
| Stddev | .00046 | .012 | .0023 | .0019 | .0027 | .00022 | .0048 | .291 | .00033 |
| %RSD | .81725 | .03369 | .21974 | .05003 | .11860 | .42620 | .23138 | .33380 | .31728 |
| #1 | .05604 | 34.442 | 1.0294 | 3.7175 | 2.2308 | .05155 | 2.0697 | 87.061 | .10533 |
| #2 | .05540 | 34.425 | 1.0262 | 3.7149 | 2.2346 | .05124 | 2.0629 | 87.473 | .10580 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51453** | **.23114** | **.27329** | **29.530** | **60.125** | **1.1089** | **77.892** | **.98726** | **.99514** |
| Stddev | .00023 | .00034 | .00027 | .098 | .195 | .0021 | .211 | .00022 | .00164 |
| %RSD | .04485 | .14745 | .10035 | .33102 | .32450 | .19056 | .27142 | .02185 | .16453 |
| #1 | .51469 | .23138 | .27349 | 29.461 | 59.987 | 1.1074 | 78.041 | .98741 | .99630 |
| #2 | .51436 | .23089 | .27310 | 29.599 | 60.263 | 1.1104 | 77.743 | .98710 | .99399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **378.53** | **.52337** | **11.388** | **.51260** | **23.040** | **.47900** | **2.0869** | W **59.839** | **1.8229** |
| Stddev | .04 | .00023 | .007 | .00088 | .042 | .00086 | .0037 | .135 | .0045 |
| %RSD | .01084 | .04347 | .05747 | .17176 | .18356 | .18041 | .17521 | .22587 | .24575 |
| #1 | 378.50 | .52353 | 11.384 | .51198 | 23.070 | .47961 | 2.0895 | 59.744 | 1.8261 |
| #2 | 378.56 | .52321 | 11.393 | .51322 | 23.010 | .47839 | 2.0843 | 59.935 | 1.8197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 50.000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0875** | **1.0615** | **1.1794** | **1.9244** | **2.0751** | **.53736** | **.56379** | **.49696** |
| Stddev | .0072 | .0020 | .0002 | .0034 | .0138 | .00185 | .00054 | .00229 |
| %RSD | .34695 | .18449 | .01657 | .17935 | .66449 | .34485 | .09538 | .46076 |
| #1 | 2.0824 | 1.0629 | 1.1796 | 1.9269 | 2.0653 | .53867 | .56417 | .49858 |
| #2 | 2.0926 | 1.0601 | 1.1793 | 1.9220 | 2.0848 | .53605 | .56341 | .49534 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5209.8** | **66065.** | **4074.1** |
| Stddev | 23.0 | 39. | 1.1 |
| %RSD | .44152 | .05883 | .02622 |
| #1 | 5226.1 | 66037. | 4074.9 |
| #2 | 5193.5 | 66092. | 4073.4 |

Sample Name: pds 280-41959-C-1-A  Acquired: 5/16/2013 13:28:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05461** | **15.829** | **.20939** | **2.6924** | **.23884** | **.05095** | **-.00606** | **55.899** | **.05253** |
| Stddev | .00053 | .078 | .00133 | .0021 | .00034 | .00024 | .00017 | .083 | .00030 |
| %RSD | .97491 | .49460 | .63606 | .07897 | .14069 | .46647 | 2.7601 | .14889 | .58004 |
| #1 | .05498 | 15.884 | .20844 | 2.6909 | .23908 | .05112 | -.00618 | 55.958 | .05231 |
| #2 | .05423 | 15.774 | .21033 | 2.6939 | .23860 | .05079 | -.00594 | 55.840 | .05275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06218** | **.07166** | **.06890** | **26.251** | **26.440** | **.16571** | **45.943** | **.51801** | **.05818** |
| Stddev | .00016 | .00023 | .00008 | .049 | .068 | .00239 | .014 | .00069 | .00049 |
| %RSD | .26128 | .31578 | .11776 | .18680 | .25551 | 1.4401 | .03148 | .13248 | .84134 |
| #1 | .06206 | .07150 | .06896 | 26.285 | 26.393 | .16402 | 45.933 | .51752 | .05784 |
| #2 | .06229 | .07182 | .06884 | 26.216 | 26.488 | .16740 | 45.953 | .51849 | .05853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **335.60** | **.13660** | **3.0051** | **.11389** | **22.379** | **.09938** | **.21048** | **31.008** | **.09947** |
| Stddev | 2.45 | .00058 | .0093 | .00028 | .005 | .00201 | .00005 | .066 | .00086 |
| %RSD | .73136 | .42265 | .31094 | .24311 | .02313 | 2.0209 | .02486 | .21256 | .86131 |
| #1 | 337.34 | .13619 | 2.9985 | .11370 | 22.383 | .10080 | .21044 | 30.962 | .09887 |
| #2 | 333.87 | .13701 | 3.0117 | .11409 | 22.375 | .09796 | .21051 | 31.055 | .10008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0525** | **.23218** | **.17457** | **.19607** | **.51473** | **.06970** | **.27163** | **.05165** |
| Stddev | .0009 | .00229 | .00003 | .00004 | .01426 | .00015 | .00056 | .00098 |
| %RSD | .08763 | .98583 | .01529 | .02252 | 2.7709 | .21337 | .20718 | 1.8882 |
| #1 | 1.0531 | .23056 | .17455 | .19611 | .52481 | .06981 | .27123 | .05234 |
| #2 | 1.0518 | .23380 | .17459 | .19604 | .50464 | .06960 | .27203 | .05096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5203.1** | **65912.** | **4072.4** |
| Stddev | 9.3 | 197. | 14.4 |
| %RSD | .17843 | .29826 | .35282 |
| #1 | 5196.5 | 66051. | 4062.3 |
| #2 | 5209.6 | 65773. | 4082.6 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 13:31:03 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **51.192** | **.00102** | **.01415** | **-.00019** | **-.00017** | **1.0214** | **-.00034** | **-.00060** | **.00204** | **.00009** | **-.00073** | **50.078** |
| Stddev | .00090 | .082 | .00274 | .00093 | .00039 | .00001 | .0009 | .00114 | .00014 | .00003 | .00005 | .00007 | .058 |
| %RSD | 145.86 | .16009 | 267.92 | 6.5373 | 206.56 | 6.2253 | .09123 | 332.44 | 23.791 | 1.6530 | 61.635 | 9.7415 | .11650 |
| #1 | -.00002 | 51.250 | -.00092 | .01481 | .00009 | -.00017 | 1.0221 | -.00115 | -.00050 | .00206 | .00005 | -.00078 | 50.119 |
| #2 | .00125 | 51.134 | .00296 | .01350 | -.00046 | -.00016 | 1.0208 | .00046 | -.00070 | .00202 | .00012 | -.00068 | 50.037 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19146** | **.00223** | **.01255** | **-.00020** | **-.00205** | **260.98** | **.00081** | **.01014** | **.00115** | **5.0535** | **-.00162** | **.00592** | **.01775** |
| Stddev | .00681 | .00084 | .00148 | .00004 | .00033 | .84 | .00006 | .00033 | .00091 | .0009 | .00102 | .00219 | .00716 |
| %RSD | 3.5555 | 37.703 | 11.770 | 19.745 | 15.861 | .32323 | 6.9261 | 3.3008 | 79.100 | .01797 | 62.528 | 36.904 | 40.358 |
| #1 | .18665 | .00282 | .01151 | -.00023 | -.00182 | 261.58 | .00085 | .00991 | .00179 | 5.0528 | -.00234 | .00438 | .02282 |
| #2 | .19628 | .00163 | .01360 | -.00018 | -.00228 | 260.38 | .00077 | .01038 | .00051 | 5.0541 | -.00091 | .00747 | .01269 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00034** | **5.2069** | **.00264** | **-.00277** | **10.320** | **-.00097** | **.00333** | **-.04557** |
| Stddev | .00012 | .00013 | .0053 | .00047 | .00012 | .005 | .00026 | .00007 | .00124 |
| %RSD | 25.874 | 37.375 | .10120 | 17.924 | 4.3204 | .04759 | 26.307 | 2.1309 | 2.7161 |
| #1 | .00039 | .00025 | 5.2107 | .00231 | -.00286 | 10.324 | -.00079 | .00328 | -.04470 |
| #2 | .00057 | .00043 | 5.2032 | .00298 | -.00269 | 10.317 | -.00115 | .00338 | -.04645 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5289.6** | **65919.** | **4032.3** |
| Stddev | 6.0 | 215. | 14.8 |
| %RSD | .11293 | .32647 | .36663 |
| #1 | 5293.9 | 65767. | 4021.8 |
| #2 | 5285.4 | 66071. | 4042.7 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 13:33:27 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50805** | **.50936** | **.98358** | **.51925** | **.49838** | **.48193** | **-.00121** | **4.9455** | **.50195** | **.50972** | **.49473** | **.49400** | **2.3948** |
| Stddev | .00002 | .00004 | .00039 | .00072 | .00256 | .00203 | .00127 | .0019 | .00050 | .00165 | .00038 | .00117 | .0024 |
| %RSD | .00332 | .00709 | .04006 | .13823 | .51430 | .42206 | 104.60 | .03895 | .10026 | .32391 | .07739 | .23765 | .10213 |
| #1 | .50806 | .50933 | .98386 | .51976 | .50020 | .48337 | -.00032 | 4.9441 | .50159 | .50855 | .49446 | .49483 | 2.3965 |
| #2 | .50803 | .50938 | .98331 | .51874 | .49657 | .48049 | -.00211 | 4.9468 | .50231 | .51089 | .49500 | .49317 | 2.3931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.555** | **1.0165** | **19.720** | **.49813** | **.49245** | **5.1266** | **.50260** | **1.0060** | **1.0106** | **-.03939** | **1.0096** | **1.0109** | **4.8751** |
| Stddev | .330 | .0052 | .043 | .00019 | .00002 | .0253 | .00108 | .0006 | .0014 | .00079 | .0022 | .0063 | .0234 |
| %RSD | .65277 | .50671 | .21594 | .03749 | .00489 | .49275 | .21551 | .05418 | .13326 | 1.9967 | .22143 | .61870 | .48067 |
| #1 | 50.789 | 1.0201 | 19.750 | .49826 | .49244 | 5.1445 | .50183 | 1.0063 | 1.0097 | -.03884 | 1.0080 | 1.0065 | 4.8916 |
| #2 | 50.322 | 1.0128 | 19.690 | .49800 | .49247 | 5.1088 | .50336 | 1.0056 | 1.0116 | -.03995 | 1.0112 | 1.0154 | 4.8585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98229** | **.50911** | **.00214** | **.49698** | **.99801** | **-.02742** | **.48912** | **.48912** | **.49093** |
| Stddev | .00396 | .00233 | .00094 | .00028 | .00033 | .00949 | .00121 | .00214 | .00188 |
| %RSD | .40345 | .45829 | 43.868 | .05551 | .03275 | 34.605 | .24777 | .43658 | .38334 |
| #1 | .97949 | .51076 | .00281 | .49678 | .99778 | -.02071 | .48998 | .49063 | .48960 |
| #2 | .98509 | .50746 | .00148 | .49717 | .99824 | -.03413 | .48827 | .48761 | .49226 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5340.1** | **67124.** | **4050.7** |
| Stddev | 7.9 | 127. | 18.4 |
| %RSD | .14723 | .18848 | .45324 |
| #1 | 5345.7 | 67035. | 4037.7 |
| #2 | 5334.5 | 67214. | 4063.7 |

Sample Name: CCB Acquired: 5/16/2013 13:35:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00103** | **-.00032** | **.00294** | F **.00714** | W **-.00075** | **-.00001** | **-.00039** | **.00076** | **-.00001** | **.00014** | **.00007** |
| Stddev | .00045 | .00008 | .00357 | .00020 | .00009 | .00003 | .00285 | .00171 | .00001 | .00011 | .00010 |
| %RSD | 43.596 | 25.122 | 121.43 | 2.7907 | 11.464 | 279.15 | 729.25 | 225.11 | 64.899 | 73.081 | 144.45 |
| #1 | .00071 | -.00038 | .00546 | .00700 | -.00069 | -.00003 | .00162 | .00197 | -.00001 | .00007 | .00015 |
| #2 | .00135 | -.00026 | .00042 | .00728 | -.00081 | .00001 | -.00241 | -.00045 | -.00000 | .00022 | -.00000 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **-.00111** | **.02921** | **-.00138** | **-.00132** | **-.00021** | **-.00026** | F **.14593** | **-.00001** | **.00124** | **.00015** |
| Stddev | .00012 | .00485 | .07878 | .00276 | .00370 | .00001 | .00013 | .01120 | .00021 | .00072 | .00013 |
| %RSD | 41.351 | 434.97 | 269.69 | 200.24 | 280.31 | 4.0786 | 50.684 | 7.6739 | 1754.2 | 57.973 | 88.673 |
| #1 | -.00021 | .00231 | .08492 | .00057 | .00130 | -.00020 | -.00035 | .13801 | .00014 | .00175 | .00006 |
| #2 | -.00038 | -.00454 | -.02650 | -.00333 | -.00394 | -.00022 | -.00017 | .15385 | -.00016 | .00073 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03825** | **.00072** | **-.00128** | **.01309** | **.00023** | **-.00011** | **.00060** | **-.00032** | **-.00155** | **-.03514** | **-.00105** |
| Stddev | .00124 | .00023 | .00467 | .00647 | .00061 | .00006 | .00031 | .00045 | .00064 | .05672 | .00016 |
| %RSD | 3.2352 | 31.498 | 364.04 | 49.446 | 267.28 | 52.761 | 51.424 | 140.36 | 40.997 | 161.40 | 15.062 |
| #1 | -.03912 | .00088 | -.00459 | .00851 | -.00020 | -.00015 | .00038 | -.00000 | -.00110 | .00496 | -.00116 |
| #2 | -.03737 | .00056 | .00202 | .01766 | .00066 | -.00007 | .00082 | -.00063 | -.00200 | -.07525 | -.00093 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00246** | **.00135** |
| Stddev | .00016 | .00223 |
| %RSD | 6.3387 | 165.45 |
| #1 | .00235 | .00293 |
| #2 | .00257 | -.00023 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5397.5** | **67651.** | **4017.7** |
| Stddev | 10.4 | 4. | 3.6 |
| %RSD | .19306 | .00553 | .08976 |
| #1 | 5404.9 | 67654. | 4015.2 |
| #2 | 5390.2 | 67649. | 4020.3 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 13:38:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01120** | **.10454** | **.01725** | **.11321** | **.00974** | **.00099** | **.11218** | **.20605** | **.00529** | **.01127** | **.01049** |
| Stddev | .00031 | .00090 | .00183 | .00021 | .00012 | .00014 | .00145 | .00640 | .00001 | .00019 | .00015 |
| %RSD | 2.7835 | .86160 | 10.588 | .18713 | 1.2439 | 14.348 | 1.2922 | 3.1040 | .21495 | 1.7093 | 1.4527 |
| #1 | .01098 | .10517 | .01854 | .11306 | .00983 | .00109 | .11115 | .20153 | .00528 | .01113 | .01039 |
| #2 | .01142 | .10390 | .01596 | .11336 | .00966 | .00089 | .11320 | .21058 | .00529 | .01141 | .01060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01417** | **.09666** | **3.2807** | **.00890** | **.21505** | **.01042** | **.02010** | **1.1345** | **.04261** | **3.1075** | **.01059** |
| Stddev | .00016 | .00124 | .0176 | .00167 | .00029 | .00009 | .00009 | .0123 | .00042 | .0132 | .00097 |
| %RSD | 1.1269 | 1.2841 | .53520 | 18.817 | .13523 | .83183 | .45453 | 1.0846 | .99366 | .42559 | 9.1426 |
| #1 | .01429 | .09579 | 3.2683 | .00772 | .21484 | .01048 | .02003 | 1.1258 | .04291 | 3.0982 | .00991 |
| #2 | .01406 | .09754 | 3.2931 | .01009 | .21526 | .01036 | .02016 | 1.1432 | .04231 | 3.1169 | .01128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03962** | **.00960** | W **.01813** | **.50694** | **.10205** | **.01063** | **.01515** | **.00975** | **.01488** | F **.07917** | **.00994** |
| Stddev | .00119 | .00048 | .00261 | .00266 | .00056 | .00001 | .00235 | .00028 | .00121 | .04406 | .00017 |
| %RSD | 3.0150 | 4.9960 | 14.402 | .52553 | .55120 | .09368 | 15.540 | 2.9012 | 8.1103 | 55.658 | 1.6740 |
| #1 | -.04046 | .00926 | .01628 | .50882 | .10244 | .01064 | .01349 | .00995 | .01403 | .11032 | .00983 |
| #2 | -.03877 | .00994 | .01998 | .50505 | .10165 | .01063 | .01682 | .00955 | .01573 | .04801 | .01006 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | 20.000% | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02336** | **.01736** |
| Stddev | .00075 | .00137 |
| %RSD | 3.2140 | 7.8876 |
| #1 | .02283 | .01833 |
| #2 | .02389 | .01639 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5436.3** | **68951.** | **4117.7** |
| Stddev | 4.3 | 115. | 22.9 |
| %RSD | .07910 | .16634 | .55574 |
| #1 | 5433.2 | 69032. | 4133.9 |
| #2 | 5439.3 | 68870. | 4101.5 |

Sample Name: 280-41959-C-2-A  Acquired: 5/16/2013 13:40:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **.54944** | **.00141** | **.06603** | **.11765** | **-.00009** | **-.00239** | **57.198** | **.00030** |
| Stddev | .00046 | .00029 | .00270 | .00067 | .00012 | .00002 | .00178 | .197 | .00003 |
| %RSD | 61.560 | .05284 | 190.75 | 1.0216 | .10248 | 17.630 | 74.472 | .34471 | 10.377 |
| #1 | .00107 | .54923 | .00332 | .06650 | .11757 | -.00008 | -.00113 | 57.059 | .00032 |
| #2 | .00042 | .54964 | -.00049 | .06555 | .11774 | -.00010 | -.00365 | 57.338 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **.00105** | **.01289** | **1.0446** | **4.6628** | **-.00023** | **12.896** | **.07823** | **.00294** |
| Stddev | .00025 | .00005 | .00028 | .0025 | .0137 | .00191 | .033 | .00016 | .00014 |
| %RSD | 32.610 | 4.4267 | 2.1566 | .23996 | .29361 | 841.38 | .25963 | .20221 | 4.7914 |
| #1 | .00093 | .00109 | .01270 | 1.0428 | 4.6725 | -.00158 | 12.872 | .07812 | .00284 |
| #2 | .00058 | .00102 | .01309 | 1.0464 | 4.6531 | .00112 | 12.920 | .07834 | .00304 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.826** | **.00192** | **.48014** | **.00204** | **17.794** | **-.00192** | **.00416** | **1.1354** | **.00046** |
| Stddev | .652 | .00030 | .00302 | .00078 | .036 | .00175 | .00077 | .0330 | .00013 |
| %RSD | 2.3414 | 15.535 | .62881 | 38.212 | .20457 | 91.091 | 18.543 | 2.9098 | 28.775 |
| #1 | 27.366 | .00213 | .47801 | .00259 | 17.820 | -.00068 | .00470 | 1.1588 | .00037 |
| #2 | 28.287 | .00171 | .48228 | .00149 | 17.768 | -.00315 | .00361 | 1.1121 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31349** | **.00069** | **.00961** | **-.00247** | **.01666** | **.00192** | **.01465** | **.00202** |
| Stddev | .00047 | .00102 | .00037 | .00071 | .01078 | .00009 | .00020 | .00064 |
| %RSD | .14863 | 147.23 | 3.8253 | 28.719 | 64.725 | 4.5127 | 1.3763 | 31.818 |
| #1 | .31316 | .00141 | .00935 | -.00297 | .02428 | .00186 | .01479 | .00247 |
| #2 | .31382 | -.00003 | .00987 | -.00197 | .00904 | .00198 | .01451 | .00156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5310.3** | **67320.** | **4088.7** |
| Stddev | 2.9 | 397. | 13.4 |
| %RSD | .05407 | .58933 | .32752 |
| #1 | 5312.3 | 67601. | 4098.2 |
| #2 | 5308.2 | 67040. | 4079.3 |

Sample Name: 280-41959-C-3-A Acquired: 5/16/2013 13:42:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.33803** | **.00103** | **.20566** | **.01640** | **-.00007** | **-.00201** | **134.74** | **.00016** |
| Stddev | .00097 | .00053 | .00224 | .00064 | .00007 | .00005 | .00166 | 1.16 | .00013 |
| %RSD | 177.51 | .15825 | 217.10 | .31006 | .45370 | 62.750 | 82.768 | .85862 | 81.459 |
| #1 | .00123 | .33841 | -.00055 | .20611 | .01635 | -.00011 | -.00083 | 133.92 | .00025 |
| #2 | -.00014 | .33765 | .00262 | .20521 | .01645 | -.00004 | -.00318 | 135.55 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00239** | **.00069** | **-.00007** | **.40511** | **2.1686** | **.02755** | **35.574** | **.63407** | **-.00017** |
| Stddev | .00045 | .00008 | .00009 | .00539 | .0671 | .00016 | .081 | .00091 | .00005 |
| %RSD | 18.925 | 11.153 | 122.40 | 1.3316 | 3.0957 | .58318 | .22755 | .14406 | 27.967 |
| #1 | .00207 | .00064 | -.00014 | .40130 | 2.2161 | .02744 | 35.631 | .63472 | -.00013 |
| #2 | .00271 | .00075 | -.00001 | .40893 | 2.1211 | .02767 | 35.517 | .63343 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **75.010** | **.00229** | **.28570** | **.00264** | **82.542** | **-.00120** | **.00158** | **6.2616** | **-.00009** |
| Stddev | .462 | .00001 | .00219 | .00150 | .025 | .00253 | .00140 | .0316 | .00018 |
| %RSD | .61613 | .54306 | .76782 | 56.672 | .03062 | 210.83 | 89.015 | .50513 | 206.76 |
| #1 | 74.684 | .00230 | .28415 | .00158 | 82.560 | .00059 | .00058 | 6.2392 | .00004 |
| #2 | 75.337 | .00228 | .28725 | .00370 | 82.524 | -.00298 | .00257 | 6.2840 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.70398** | **.00263** | **.00420** | **-.00068** | **-.02222** | **-.00027** | **.00792** | **-.00001** |
| Stddev | .00502 | .00042 | .00062 | .00062 | .00838 | .00018 | .00002 | .00069 |
| %RSD | .71324 | 15.811 | 14.703 | 91.042 | 37.709 | 67.363 | .21546 | 11539. |
| #1 | .70043 | .00292 | .00464 | -.00112 | -.01629 | -.00039 | .00794 | .00048 |
| #2 | .70753 | .00233 | .00377 | -.00024 | -.02814 | -.00014 | .00791 | -.00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5267.2** | **65979.** | **3984.8** |
| Stddev | 22.4 | 189. | 14.1 |
| %RSD | .42519 | .28696 | .35447 |
| #1 | 5251.4 | 65845. | 3994.8 |
| #2 | 5283.1 | 66113. | 3974.8 |

Sample Name: 280-41959-C-4-A Acquired: 5/16/2013 13:45:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **1.1106** | **-.00027** | **2.5373** | **.05179** | **.00021** | **-.00328** | **22.401** | **.00038** |
| Stddev | .00050 | .0026 | .00166 | .0001 | .00050 | .00000 | .00397 | .016 | .00016 |
| %RSD | 45.823 | .23628 | 620.02 | .00281 | .96237 | .15082 | 121.08 | .07335 | 40.788 |
| #1 | .00074 | 1.1125 | .00091 | 2.5372 | .05144 | .00021 | -.00608 | 22.390 | .00049 |
| #2 | .00145 | 1.1087 | -.00144 | 2.5373 | .05214 | .00021 | -.00047 | 22.413 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.00249** | **.00230** | **3.4367** | **7.2828** | **.03653** | **18.659** | **.18057** | **.00012** |
| Stddev | .00020 | .00013 | .00010 | .0107 | .0368 | .00126 | .017 | .00003 | .00011 |
| %RSD | 10.492 | 5.0335 | 4.2127 | .31228 | .50582 | 3.4409 | .09097 | .01773 | 93.254 |
| #1 | .00202 | .00258 | .00223 | 3.4443 | 7.2567 | .03564 | 18.647 | .18055 | .00004 |
| #2 | .00174 | .00240 | .00237 | 3.4291 | 7.3088 | .03742 | 18.671 | .18059 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **337.98** | **.00395** | **.39492** | **.00369** | **50.077** | **-.00220** | **-.00174** | **7.3773** | **.00108** |
| Stddev | .26 | .00004 | .00071 | .00057 | .037 | .00090 | .00076 | .0059 | .00017 |
| %RSD | .07748 | 1.0918 | .17949 | 15.394 | .07309 | 41.004 | 43.930 | .07951 | 15.498 |
| #1 | 337.80 | .00399 | .39441 | .00410 | 50.102 | -.00284 | -.00120 | 7.3731 | .00119 |
| #2 | 338.17 | .00392 | .39542 | .00329 | 50.051 | -.00157 | -.00227 | 7.3814 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96644** | **.00326** | **.02418** | **.00015** | **-.01135** | **.00192** | **.01194** | **.00329** |
| Stddev | .00050 | .00387 | .00039 | .00146 | .03691 | .00018 | .00019 | .00011 |
| %RSD | .05219 | 118.93 | 1.6103 | 943.87 | 325.02 | 9.4999 | 1.6146 | 3.3459 |
| #1 | .96608 | .00600 | .02391 | .00119 | -.03745 | .00179 | .01207 | .00321 |
| #2 | .96680 | .00052 | .02446 | -.00088 | .01474 | .00205 | .01180 | .00337 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5187.3** | **66254.** | **4099.1** |
| Stddev | 17.9 | 453. | 14.5 |
| %RSD | .34464 | .68367 | .35345 |
| #1 | 5174.7 | 66574. | 4088.9 |
| #2 | 5200.0 | 65934. | 4109.3 |

Sample Name: 280-41981-A-3-A  Acquired: 5/16/2013 13:47:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **.01434** | **.00028** | **.22202** | **.05173** | **-.00002** | **-.00313** | **101.85** | **.00056** |
| Stddev | .00049 | .00001 | .00419 | .00124 | .00042 | .00007 | .00037 | .60 | .00007 |
| %RSD | 46.793 | .04841 | 1486.1 | .55654 | .81195 | 437.75 | 11.949 | .59117 | 12.212 |
| #1 | .00139 | .01435 | .00325 | .22290 | .05143 | .00003 | -.00340 | 101.42 | .00061 |
| #2 | .00070 | .01434 | -.00268 | .22115 | .05203 | -.00006 | -.00287 | 102.27 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00055** | **.00389** | **.31182** | **17.473** | **.00488** | **12.630** | **.00723** | **.00038** |
| Stddev | .00008 | .00001 | .00035 | .00070 | .053 | .00027 | .006 | .00007 | .00008 |
| %RSD | 169.33 | 1.4697 | 9.0320 | .22521 | .30566 | 5.4620 | .04972 | .93754 | 20.478 |
| #1 | .00001 | .00054 | .00364 | .31232 | 17.435 | .00507 | 12.634 | .00718 | .00044 |
| #2 | -.00011 | .00055 | .00414 | .31132 | 17.511 | .00469 | 12.625 | .00727 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **43.210** | **.00016** | **.21395** | **.00193** | **78.542** | **.00043** | **-.00055** | **3.0127** | **.00036** |
| Stddev | .420 | .00011 | .00261 | .00098 | .103 | .00170 | .00095 | .0102 | .00044 |
| %RSD | .97143 | 68.450 | 1.2201 | 50.729 | .13062 | 399.21 | 174.35 | .33722 | 121.02 |
| #1 | 42.913 | .00008 | .21579 | .00262 | 78.469 | .00163 | .00013 | 3.0055 | .00005 |
| #2 | 43.507 | .00024 | .21210 | .00124 | 78.614 | -.00078 | -.00122 | 3.0198 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2212** | **.00267** | **.00007** | **-.00265** | W **-.06497** | **-.00075** | **.66320** | **.00198** |
| Stddev | .0073 | .00066 | .00018 | .00033 | .01074 | .00006 | .00019 | .00033 |
| %RSD | .59823 | 24.795 | 261.91 | 12.399 | 16.528 | 8.2508 | .02912 | 16.555 |
| #1 | 1.2160 | .00220 | .00019 | -.00242 | -.07256 | -.00079 | .66334 | .00222 |
| #2 | 1.2263 | .00314 | -.00006 | -.00288 | -.05737 | -.00070 | .66306 | .00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5331.6** | **68237.** | **4110.1** |
| Stddev | 29.1 | 61. | 39.7 |
| %RSD | .54586 | .08942 | .96552 |
| #1 | 5311.0 | 68280. | 4138.1 |
| #2 | 5352.1 | 68194. | 4082.0 |

Sample Name: 280-41981-A-5-A  Acquired: 5/16/2013 13:50:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | W **3.4710** | **.00243** | **.04022** | **.14462** | **.00005** | **-.00426** | **33.698** | **.00035** |
| Stddev | .00054 | .0084 | .00013 | .00042 | .00075 | .00017 | .00219 | .075 | .00030 |
| %RSD | 91.173 | .24252 | 5.5172 | 1.0361 | .51771 | 360.22 | 51.432 | .22278 | 86.632 |
| #1 | .00097 | 3.4770 | .00234 | .04051 | .14409 | .00017 | -.00581 | 33.645 | .00013 |
| #2 | .00021 | 3.4651 | .00253 | .03992 | .14515 | -.00007 | -.00271 | 33.751 | .00056 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 4.0000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.00333** | **.00279** | **2.9103** | **4.8982** | **.00273** | **4.6373** | **.06905** | **.00092** |
| Stddev | .00005 | .00007 | .00010 | .0106 | .0403 | .00122 | .0015 | .00002 | .00017 |
| %RSD | 5.4286 | 2.0209 | 3.6349 | .36331 | .82313 | 44.561 | .03337 | .02553 | 18.215 |
| #1 | .00094 | .00328 | .00286 | 2.9028 | 4.8697 | .00187 | 4.6384 | .06903 | .00080 |
| #2 | .00102 | .00338 | .00272 | 2.9178 | 4.9267 | .00359 | 4.6362 | .06906 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.5036** | **.00465** | **.30449** | **.00555** | **3.7679** | **-.00193** | **.00562** | **8.0247** | **.00018** |
| Stddev | .0139 | .00019 | .00199 | .00081 | .0131 | .00027 | .00297 | .0201 | .00004 |
| %RSD | .21315 | 4.0872 | .65377 | 14.664 | .34773 | 14.129 | 52.924 | .25059 | 22.405 |
| #1 | 6.4938 | .00478 | .30590 | .00498 | 3.7772 | -.00212 | .00352 | 8.0105 | .00015 |
| #2 | 6.5134 | .00451 | .30309 | .00613 | 3.7587 | -.00174 | .00772 | 8.0389 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24120** | **.00101** | **.03362** | **-.00198** | **.00822** | **.00480** | **.01190** | **.00476** |
| Stddev | .00003 | .00159 | .00039 | .00078 | .00654 | .00038 | .00008 | .00034 |
| %RSD | .01091 | 156.58 | 1.1581 | 39.174 | 79.602 | 7.9044 | .65045 | 7.2245 |
| #1 | .24122 | .00213 | .03334 | -.00253 | .00359 | .00453 | .01195 | .00501 |
| #2 | .24118 | -.00011 | .03389 | -.00143 | .01285 | .00507 | .01184 | .00452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5496.6** | **68800.** | **4254.4** |
| Stddev | 2.1 | 214. | 8.9 |
| %RSD | .03808 | .31048 | .20983 |
| #1 | 5498.1 | 68649. | 4260.7 |
| #2 | 5495.1 | 68951. | 4248.1 |

Sample Name: 280-41981-A-7-A  Acquired: 5/16/2013 13:52:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **170.16** | **.07090** | **1.1717** | **.61463** | **.01123** | W **-.01230** | **488.01** | **.00997** |
| Stddev | .00065 | .14 | .00014 | .0004 | .00237 | .00002 | .00123 | 6.17 | .00007 |
| %RSD | 86.385 | .08494 | .19758 | .03069 | .38586 | .17981 | 10.044 | 1.2639 | .74351 |
| #1 | .00122 | 170.27 | .07080 | 1.1715 | .61631 | .01121 | -.01142 | 483.65 | .01002 |
| #2 | .00029 | 170.06 | .07100 | 1.1720 | .61296 | .01124 | -.01317 | 492.37 | .00992 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20717** | **.23728** | **.27794** | **355.09** | **55.968** | **.18944** | **98.985** | **5.3735** | **.01291** |
| Stddev | .00054 | .00036 | .00040 | .44 | .029 | .00216 | .169 | .0196 | .00023 |
| %RSD | .26307 | .15373 | .14436 | .12305 | .05223 | 1.1424 | .17030 | .36520 | 1.8062 |
| #1 | .20755 | .23754 | .27822 | 355.40 | 55.989 | .18791 | 99.105 | 5.3596 | .01307 |
| #2 | .20678 | .23703 | .27766 | 354.78 | 55.947 | .19097 | 98.866 | 5.3874 | .01274 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **122.88** | **.44754** | **26.022** | **.33864** | **102.32** | **-.00643** | **.01069** | W **75.217** | **.00952** |
| Stddev | .03 | .00114 | .016 | .00032 | .12 | .00179 | .00199 | .070 | .00018 |
| %RSD | .02520 | .25554 | .05973 | .09432 | .11363 | 27.871 | 18.607 | .09268 | 1.8565 |
| #1 | 122.86 | .44835 | 26.011 | .33887 | 102.24 | -.00516 | .01210 | 75.168 | .00965 |
| #2 | 122.91 | .44673 | 26.033 | .33841 | 102.41 | -.00770 | .00928 | 75.266 | .00940 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 50.000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **23.748** | **.16544** | **.46287** | **-.00714** | W **-.08787** | **.14976** | **2.3449** | **.02227** |
| Stddev | .017 | .00058 | .00017 | .00084 | .00925 | .00039 | .0053 | .00030 |
| %RSD | .07235 | .35312 | .03656 | 11.716 | 10.526 | .26120 | .22835 | 1.3489 |
| #1 | 23.735 | .16586 | .46275 | -.00655 | -.09441 | .14949 | 2.3487 | .02206 |
| #2 | 23.760 | .16503 | .46299 | -.00774 | -.08133 | .15004 | 2.3411 | .02248 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 20.000 | | | | 45.000 | | | |
| Low Limit | -.02000 | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5798.2** | **73052.** | **4875.2** |
| Stddev | 1.8 | 12. | 49.4 |
| %RSD | .03093 | .01588 | 1.0135 |
| #1 | 5799.4 | 73043. | 4910.1 |
| #2 | 5796.9 | 73060. | 4840.2 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 13:55:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **51.746** | **-.00009** | **.00626** | **-.00007** | **-.00009** | **1.0236** | **.01268** | **-.00092** | **.00217** | **.00010** | **-.00170** | **50.418** |
| Stddev | .00053 | .086 | .00160 | .00003 | .00062 | .00012 | .0002 | .00766 | .00013 | .00008 | .00021 | .00003 | .112 |
| %RSD | 80.263 | .16615 | 1744.5 | .52502 | 925.38 | 132.50 | .02217 | 60.381 | 14.112 | 3.7644 | 205.19 | 1.6296 | .22161 |
| #1 | .00103 | 51.685 | -.00123 | .00629 | .00037 | -.00001 | 1.0235 | .01809 | -.00083 | .00212 | -.00005 | -.00172 | 50.339 |
| #2 | .00028 | 51.807 | .00104 | .00624 | -.00050 | -.00017 | 1.0238 | .00727 | -.00101 | .00223 | .00025 | -.00168 | 50.497 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12805** | **-.00206** | **.00708** | **-.00013** | **-.00216** | **264.17** | **.00128** | **.00925** | **.00193** | **5.1144** | **-.00283** | **.00747** | **.09578** |
| Stddev | .06036 | .00011 | .00202 | .00001 | .00019 | .15 | .00003 | .00166 | .00122 | .0001 | .00077 | .00066 | .01225 |
| %RSD | 47.140 | 5.1778 | 28.576 | 8.8405 | 8.7350 | .05573 | 2.4635 | 17.919 | 63.201 | .00120 | 27.186 | 8.8255 | 12.793 |
| #1 | .17074 | -.00214 | .00565 | -.00014 | -.00203 | 264.27 | .00126 | .00808 | .00107 | 5.1144 | -.00229 | .00793 | .08711 |
| #2 | .08537 | -.00199 | .00851 | -.00012 | -.00229 | 264.07 | .00130 | .01042 | .00280 | 5.1143 | -.00337 | .00700 | .10444 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **.00084** | **5.2708** | **.00324** | **-.00266** | **10.355** | **-.00121** | **.00240** | **-.05075** |
| Stddev | .00004 | .00042 | .0035 | .00013 | .00085 | .059 | .00039 | .00038 | .00005 |
| %RSD | 7.5876 | 49.597 | .06622 | 4.0584 | 31.923 | .57213 | 31.910 | 15.926 | .09920 |
| #1 | .00052 | .00113 | 5.2733 | .00315 | -.00206 | 10.397 | -.00094 | .00267 | -.05071 |
| #2 | .00047 | .00054 | 5.2683 | .00334 | -.00326 | 10.314 | -.00149 | .00213 | -.05079 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5281.6** | **66585.** | **4050.8** |
| Stddev | 11.7 | 343. | 22.1 |
| %RSD | .22087 | .51452 | .54620 |
| #1 | 5273.4 | 66343. | 4035.2 |
| #2 | 5289.9 | 66827. | 4066.4 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 13:57:42 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52061** | **.51981** | **.99064** | **.52171** | **.50707** | **.48630** | **-.00073** | **5.0135** | **.50879** | **.51634** | **.49871** | **.49834** | **2.4528** |
| Stddev | .00229 | .00101 | .00121 | .00013 | .00298 | .00311 | .00492 | .0070 | .00082 | .00013 | .00101 | .00112 | .0017 |
| %RSD | .43999 | .19406 | .12231 | .02445 | .58853 | .63950 | 674.08 | .14004 | .16169 | .02552 | .20186 | .22572 | .06749 |
| #1 | .51899 | .51909 | .99149 | .52180 | .50918 | .48850 | -.00421 | 5.0184 | .50821 | .51644 | .49799 | .49754 | 2.4540 |
| #2 | .52223 | .52052 | .98978 | .52162 | .50496 | .48410 | .00275 | 5.0085 | .50937 | .51625 | .49942 | .49913 | 2.4516 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.502** | **1.0402** | **19.862** | **.50753** | **.49214** | **5.0624** | **.50433** | **1.0148** | **1.0214** | **-.02645** | **1.0259** | **1.0255** | **4.9221** |
| Stddev | .351 | .0053 | .074 | .00173 | .00085 | .0506 | .00025 | .0017 | .0008 | .00377 | .0040 | .0078 | .0212 |
| %RSD | .68238 | .51361 | .37367 | .34179 | .17198 | .99971 | .04973 | .16759 | .07684 | 14.261 | .39454 | .75938 | .43022 |
| #1 | 51.750 | 1.0440 | 19.809 | .50630 | .49154 | 5.0982 | .50415 | 1.0136 | 1.0208 | -.02912 | 1.0288 | 1.0310 | 4.9371 |
| #2 | 51.253 | 1.0365 | 19.914 | .50875 | .49274 | 5.0266 | .50451 | 1.0160 | 1.0219 | -.02378 | 1.0231 | 1.0200 | 4.9071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98400** | **.52201** | **.00297** | **.50789** | **1.0056** | **-.00347** | **.49460** | **.49577** | **.49501** |
| Stddev | .00173 | .00272 | .00199 | .00178 | .0012 | .01742 | .00281 | .00056 | .00450 |
| %RSD | .17557 | .52110 | 66.843 | .35126 | .11419 | 501.61 | .56726 | .11365 | .90912 |
| #1 | .98522 | .52393 | .00438 | .50663 | 1.0064 | -.01579 | .49262 | .49537 | .49819 |
| #2 | .98277 | .52008 | .00157 | .50916 | 1.0048 | .00885 | .49659 | .49617 | .49183 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5431.8** | **67997.** | **4107.1** |
| Stddev | 1.3 | 62. | 72.0 |
| %RSD | .02310 | .09123 | 1.7529 |
| #1 | 5432.7 | 68041. | 4056.1 |
| #2 | 5430.9 | 67954. | 4158.0 |

Sample Name: CCB Acquired: 5/16/2013 13:59:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00173** | **-.00016** | **.00178** | W **.00268** | **-.00028** | **-.00004** | **.00258** | **-.00252** | **-.00006** | **.00045** | **.00013** |
| Stddev | .00020 | .00006 | .00111 | .00037 | .00030 | .00003 | .00269 | .00082 | .00004 | .00012 | .00009 |
| %RSD | 11.557 | 39.011 | 62.554 | 13.690 | 108.97 | 83.312 | 104.31 | 32.673 | 68.379 | 25.470 | 69.140 |
| #1 | .00159 | -.00012 | .00099 | .00294 | -.00006 | -.00002 | .00448 | -.00310 | -.00009 | .00054 | .00006 |
| #2 | .00187 | -.00020 | .00256 | .00242 | -.00049 | -.00006 | .00068 | -.00194 | -.00003 | .00037 | .00019 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00156 | | | | | | | |
| Low Limit | -.00093 | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00106** | **-.00350** | **.04038** | **-.00217** | **.00275** | **-.00005** | **-.00016** | **.03643** | **.00001** | **.00023** | **.00108** |
| Stddev | .00018 | .00007 | .00833 | .00101 | .00074 | .00007 | .00002 | .00902 | .00002 | .00100 | .00046 |
| %RSD | 16.795 | 2.0592 | 20.628 | 46.522 | 26.761 | 133.82 | 14.000 | 24.759 | 267.97 | 444.93 | 42.933 |
| #1 | -.00119 | -.00355 | .03449 | -.00146 | .00223 | -.00010 | -.00015 | .04281 | .00003 | .00093 | .00141 |
| #2 | -.00093 | -.00345 | .04627 | -.00288 | .00328 | -.00000 | -.00018 | .03005 | -.00001 | -.00048 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03225** | **.00021** | **-.00087** | **.03520** | **-.00045** | **-.00003** | **-.00020** | **-.00018** | **-.00149** | **.00454** | **-.00102** |
| Stddev | .00194 | .00381 | .00393 | .00576 | .00068 | .00005 | .00084 | .00001 | .00035 | .01298 | .00077 |
| %RSD | 6.0114 | 1841.4 | 450.33 | 16.365 | 150.15 | 172.69 | 410.61 | 7.1343 | 23.500 | 285.81 | 75.642 |
| #1 | -.03362 | -.00249 | .00191 | .03927 | -.00094 | -.00006 | -.00079 | -.00019 | -.00124 | .01372 | -.00157 |
| #2 | -.03088 | .00290 | -.00365 | .03112 | .00003 | .00001 | .00039 | -.00017 | -.00173 | -.00464 | -.00048 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00293** | W **.00245** |
| Stddev | .00030 | .00079 |
| %RSD | 10.187 | 32.179 |
| #1 | .00314 | .00189 |
| #2 | .00272 | .00300 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5554.6** | **69731.** | **4175.9** |
| Stddev | 13.7 | 395. | 30.2 |
| %RSD | .24727 | .56701 | .72326 |
| #1 | 5564.3 | 69451. | 4154.5 |
| #2 | 5544.8 | 70010. | 4197.2 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 14:02:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01270** | **.10597** | W **.01915** | **.11080** | **.01029** | **.00098** | **.11065** | **.20679** | **.00529** | **.01130** | **.01061** |
| Stddev | .00036 | .00026 | .00128 | .00011 | .00009 | .00002 | .00574 | .00211 | .00004 | .00006 | .00010 |
| %RSD | 2.8687 | .24699 | 6.6987 | .09674 | .88669 | 2.3244 | 5.1855 | 1.0187 | .76879 | .52773 | .96612 |
| #1 | .01245 | .10615 | .01824 | .11072 | .01023 | .00096 | .11470 | .20530 | .00532 | .01134 | .01068 |
| #2 | .01296 | .10578 | .02005 | .11088 | .01036 | .00099 | .10659 | .20827 | .00526 | .01126 | .01054 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | .01500 | | | | | | | | |
| Range | 20.000% | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01383** | **.09878** | **3.2054** | **.00925** | **.21428** | **.01046** | **.01952** | **1.0509** | **.04237** | **3.1145** | **.01003** |
| Stddev | .00065 | .00140 | .0206 | .00236 | .00122 | .00011 | .00032 | .0043 | .00020 | .0004 | .00118 |
| %RSD | 4.6811 | 1.4129 | .64171 | 25.467 | .57005 | 1.0764 | 1.6467 | .40415 | .47383 | .01273 | 11.754 |
| #1 | .01429 | .09977 | 3.2200 | .01092 | .21514 | .01054 | .01929 | 1.0479 | .04251 | 3.1148 | .00920 |
| #2 | .01337 | .09780 | 3.1909 | .00758 | .21342 | .01038 | .01975 | 1.0539 | .04223 | 3.1142 | .01087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03365** | **.00932** | **.01668** | **.49976** | **.10135** | **.01074** | **.01704** | **.01031** | **.01458** | **.05479** | **.00897** |
| Stddev | .00147 | .00064 | .00023 | .00055 | .00074 | .00016 | .00230 | .00011 | .00104 | .02790 | .00034 |
| %RSD | 4.3545 | 6.8604 | 1.3615 | .10981 | .73284 | 1.5059 | 13.478 | 1.0709 | 7.1572 | 50.917 | 3.7961 |
| #1 | -.03261 | .00887 | .01652 | .49937 | .10188 | .01062 | .01867 | .01039 | .01384 | .03506 | .00921 |
| #2 | -.03468 | .00978 | .01684 | .50015 | .10083 | .01085 | .01542 | .01023 | .01532 | .07451 | .00873 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02301** | W **.01801** |
| Stddev | .00050 | .00011 |
| %RSD | 2.1519 | .60806 |
| #1 | .02336 | .01793 |
| #2 | .02266 | .01809 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5602.7** | **70271.** | **4190.1** |
| Stddev | 7.8 | 351. | 28.3 |
| %RSD | .13887 | .49902 | .67587 |
| #1 | 5597.2 | 70519. | 4210.1 |
| #2 | 5608.2 | 70023. | 4170.1 |

Sample Name: MB 280-173661/1-A Acquired: 5/16/2013 14:04:50 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **.03039** | **.00294** | F **.02136** | **.00080** | **-.00008** | **-.00097** | **.07611** | **-.00001** |
| Stddev | .00056 | .00055 | .00060 | .00050 | .00032 | .00002 | .00353 | .00380 | .00011 |
| %RSD | 41.578 | 1.8130 | 20.400 | 2.3173 | 39.704 | 26.734 | 362.71 | 4.9926 | 1502.9 |
| #1 | .00173 | .03078 | .00337 | .02171 | .00102 | -.00010 | .00152 | .07343 | .00007 |
| #2 | .00095 | .03000 | .00252 | .02101 | .00057 | -.00007 | -.00347 | .07880 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00056** | **-.00015** | W **.03161** | **.03923** | **-.00337** | **.02577** | **.00063** | **-.00030** |
| Stddev | .00004 | .00002 | .00022 | .00184 | .01060 | .00196 | .00008 | .00001 | .00007 |
| %RSD | 85.133 | 2.9979 | 147.48 | 5.8237 | 27.021 | 58.151 | .32706 | 1.3644 | 21.943 |
| #1 | .00002 | .00055 | .00001 | .03031 | .04672 | -.00476 | .02571 | .00062 | -.00035 |
| #2 | .00008 | .00058 | -.00030 | .03291 | .03173 | -.00198 | .02583 | .00063 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26897** | **.00029** | F **.11533** | **.00196** | **-.00543** | **-.00056** | **.00258** | W **.07727** | **.00713** |
| Stddev | .01526 | .00000 | .00144 | .00166 | .00109 | .00017 | .00187 | .00836 | .00084 |
| %RSD | 5.6744 | 1.2360 | 1.2511 | 84.574 | 20.107 | 30.616 | 72.642 | 10.825 | 11.779 |
| #1 | .25818 | .00029 | .11635 | .00079 | -.00465 | -.00044 | .00390 | .08318 | .00654 |
| #2 | .27977 | .00029 | .11431 | .00313 | -.00620 | -.00068 | .00125 | .07135 | .00772 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00097** | **-.00004** | **-.00121** | **-.02054** | **-.00084** | **.00383** | **.00142** |
| Stddev | .00017 | .00167 | .00010 | .00128 | .03835 | .00022 | .00029 | .00103 |
| %RSD | 64.038 | 172.47 | 243.50 | 106.49 | 186.64 | 26.006 | 7.6243 | 72.505 |
| #1 | .00015 | .00215 | .00003 | -.00211 | -.04766 | -.00099 | .00363 | .00215 |
| #2 | .00039 | -.00021 | -.00012 | -.00030 | .00657 | -.00068 | .00404 | .00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5603.3** | **70680.** | **4246.0** |
| Stddev | 3.5 | 826. | 22.1 |
| %RSD | .06284 | 1.1691 | .52146 |
| #1 | 5600.8 | 71264. | 4230.3 |
| #2 | 5605.8 | 70095. | 4261.7 |

Sample Name: LCS 280-173661/2-A Acquired: 5/16/2013 14:07:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05269** | **1.9612** | **.94740** | F **1.1452** | **1.9680** | **.04713** | **1.9687** | **47.533** | **.09949** |
| Stddev | .00004 | .0020 | .00135 | .0004 | .0108 | .00006 | .0030 | .156 | .00009 |
| %RSD | .06773 | .10167 | .14200 | .03052 | .54826 | .13101 | .15318 | .32879 | .08795 |
| #1 | .05266 | 1.9626 | .94835 | 1.1449 | 1.9603 | .04717 | 1.9708 | 47.422 | .09943 |
| #2 | .05271 | 1.9598 | .94644 | 1.1454 | 1.9756 | .04708 | 1.9666 | 47.643 | .09955 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48873** | **.18999** | **.23665** | **.95627** | **50.018** | **.99228** | **46.884** | **.47897** | **.92749** |
| Stddev | .00025 | .00048 | .00001 | .00701 | .180 | .00381 | .023 | .00065 | .00103 |
| %RSD | .05174 | .25459 | .00336 | .73351 | .36010 | .38428 | .04989 | .13606 | .11072 |
| #1 | .48855 | .19033 | .23666 | .95131 | 49.891 | .98958 | 46.868 | .47851 | .92822 |
| #2 | .48891 | .18965 | .23664 | .96123 | 50.146 | .99498 | 46.901 | .47944 | .92676 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.623** | **.47373** | **10.116** | **.48538** | **.00249** | **.49145** | **1.9723** | **1.7248** | **1.8443** |
| Stddev | .288 | .00034 | .004 | .00004 | .00590 | .00025 | .0008 | .0055 | .0038 |
| %RSD | .55800 | .07242 | .04373 | .00805 | 237.19 | .05184 | .04132 | .31903 | .20504 |
| #1 | 51.420 | .47398 | 10.119 | .48535 | -.00168 | .49163 | 1.9729 | 1.7287 | 1.8470 |
| #2 | 51.827 | .47349 | 10.113 | .48541 | .00666 | .49127 | 1.9718 | 1.7209 | 1.8416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0085** | **1.0065** | **.96273** | **1.9001** | **1.9323** | **.47020** | **.46526** | **.45603** |
| Stddev | .0031 | .0007 | .00336 | .0056 | .0410 | .00026 | .00013 | .00020 |
| %RSD | .30714 | .06831 | .34902 | .29551 | 2.1200 | .05532 | .02877 | .04294 |
| #1 | 1.0063 | 1.0061 | .96036 | 1.9041 | 1.9613 | .47039 | .46535 | .45617 |
| #2 | 1.0107 | 1.0070 | .96511 | 1.8961 | 1.9033 | .47002 | .46516 | .45589 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5384.2** | **68242.** | **4143.2** |
| Stddev | 13.1 | 111. | 1.2 |
| %RSD | .24364 | .16211 | .02880 |
| #1 | 5374.9 | 68320. | 4142.4 |
| #2 | 5393.5 | 68163. | 4144.1 |

Sample Name: 280-41981-A-1-A  Acquired: 5/16/2013 14:09:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00112** | **147.00** | **.03023** | **.04102** | **1.7875** | **.00636** | **.00038** | **29.754** | **.00185** |
| Stddev | .00024 | .59 | .00139 | .00098 | .0034 | .00004 | .00130 | .098 | .00002 |
| %RSD | 21.900 | .40035 | 4.5966 | 2.3964 | .18993 | .58723 | 337.97 | .32962 | .94801 |
| #1 | .00129 | 147.42 | .02925 | .04171 | 1.7899 | .00638 | -.00053 | 29.823 | .00186 |
| #2 | .00094 | 146.59 | .03121 | .04032 | 1.7851 | .00633 | .00130 | 29.684 | .00184 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05285** | **.15148** | **.13229** | **112.76** | **19.657** | **.09325** | **21.386** | **1.0405** | **.00178** |
| Stddev | .00017 | .00111 | .00025 | .38 | .043 | .00010 | .025 | .0025 | .00010 |
| %RSD | .32819 | .73406 | .18754 | .34018 | .21627 | .10472 | .11895 | .24316 | 5.6050 |
| #1 | .05298 | .15227 | .13212 | 113.03 | 19.687 | .09332 | 21.368 | 1.0387 | .00186 |
| #2 | .05273 | .15069 | .13247 | 112.49 | 19.627 | .09318 | 21.404 | 1.0423 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68052** | **.14199** | **2.6739** | **.11925** | **2.6591** | **-.00373** | **.00767** | **3.3199** | **.01015** |
| Stddev | .00872 | .00051 | .0034 | .00078 | .0065 | .00030 | .00191 | .0103 | .00052 |
| %RSD | 1.2819 | .35817 | .12882 | .65382 | .24388 | 8.0528 | 24.864 | .30973 | 5.1534 |
| #1 | .67435 | .14163 | 2.6763 | .11869 | 2.6637 | -.00394 | .00902 | 3.3272 | .00978 |
| #2 | .68669 | .14235 | 2.6715 | .11980 | 2.6545 | -.00351 | .00632 | 3.3126 | .01052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25840** | **.08182** | **1.0021** | **-.00293** | F **-.13041** | **.27398** | **.36741** | **.11601** |
| Stddev | .00102 | .00160 | .0022 | .00089 | .00052 | .00027 | .00088 | .00028 |
| %RSD | .39566 | 1.9589 | .22416 | 30.358 | .39774 | .10021 | .23816 | .24504 |
| #1 | .25913 | .08069 | 1.0005 | -.00356 | -.13005 | .27378 | .36680 | .11621 |
| #2 | .25768 | .08296 | 1.0037 | -.00230 | -.13078 | .27417 | .36803 | .11581 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5972.6** | **73652.** | **4728.3** |
| Stddev | 10.3 | 3. | 15.9 |
| %RSD | .17238 | .00351 | .33544 |
| #1 | 5965.3 | 73650. | 4717.1 |
| #2 | 5979.9 | 73653. | 4739.5 |

Sample Name: sd 280-41981-A-1-A@5 Acquired: 5/16/2013 14:11:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **32.290** | **.01096** | **.00971** | **.38607** | **.00135** | **-.00086** | **6.6078** | **.00027** |
| Stddev | .00064 | .194 | .00027 | .00006 | .00236 | .00009 | .00061 | .0419 | .00010 |
| %RSD | 36.571 | .59996 | 2.4685 | .63740 | .61031 | 6.9722 | 70.911 | .63456 | 34.861 |
| #1 | .00219 | 32.427 | .01115 | .00966 | .38774 | .00142 | -.00129 | 6.6375 | .00021 |
| #2 | .00129 | 32.153 | .01077 | .00975 | .38440 | .00128 | -.00043 | 6.5782 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01184** | **.03284** | **.02631** | **23.333** | **4.2879** | **.01757** | **4.6012** | **.22323** | **.00031** |
| Stddev | .00014 | .00021 | .00014 | .206 | .0297 | .00213 | .0089 | .00019 | .00005 |
| %RSD | 1.1886 | .63180 | .52664 | .88485 | .69310 | 12.138 | .19344 | .08682 | 15.959 |
| #1 | .01175 | .03298 | .02641 | 23.479 | 4.3089 | .01606 | 4.6075 | .22309 | .00027 |
| #2 | .01194 | .03269 | .02622 | 23.187 | 4.2669 | .01907 | 4.5949 | .22337 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12604** | **.03143** | **.56905** | **.02768** | **.53763** | **-.00186** | **.00336** | **.72334** | **.00201** |
| Stddev | .00615 | .00047 | .00414 | .00188 | .00246 | .00111 | .00135 | .01647 | .00109 |
| %RSD | 4.8796 | 1.4826 | .72752 | 6.7974 | .45813 | 60.000 | 40.150 | 2.2775 | 54.289 |
| #1 | .13039 | .03176 | .57198 | .02901 | .53937 | -.00264 | .00432 | .73499 | .00278 |
| #2 | .12169 | .03110 | .56612 | .02635 | .53589 | -.00107 | .00241 | .71169 | .00124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05723** | **.02051** | **.21249** | **-.00162** | **-.03437** | **.05658** | **.08304** | **.02737** |
| Stddev | .00024 | .00025 | .00013 | .00061 | .03324 | .00053 | .00147 | .00032 |
| %RSD | .42354 | 1.2233 | .06004 | 37.294 | 96.705 | .93486 | 1.7685 | 1.1685 |
| #1 | .05740 | .02033 | .21240 | -.00120 | -.05787 | .05621 | .08408 | .02760 |
| #2 | .05706 | .02068 | .21258 | -.00205 | -.01087 | .05696 | .08201 | .02715 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5657.2** | **70230.** | **4343.1** |
| Stddev | 16.6 | 36. | 20.9 |
| %RSD | .29425 | .05093 | .48107 |
| #1 | 5645.5 | 70204. | 4328.3 |
| #2 | 5669.0 | 70255. | 4357.9 |

Sample Name: 280-41981-A-1-B MS  Acquired: 5/16/2013 14:14:15  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04953** | **256.07** | **.87539** | **.97161** | **3.8567** | **.04898** | **1.7954** | **76.546** | **.09247** |
| Stddev | .00028 | .58 | .00152 | .00155 | .0075 | .00020 | .0003 | .215 | .00033 |
| %RSD | .57140 | .22711 | .17321 | .15924 | .19500 | .41200 | .01840 | .28148 | .35591 |
| #1 | .04973 | 255.66 | .87647 | .97271 | 3.8513 | .04884 | 1.7956 | 76.393 | .09271 |
| #2 | .04933 | 256.48 | .87432 | .97052 | 3.8620 | .04912 | 1.7951 | 76.698 | .09224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49376** | **.40460** | **.37130** | **143.01** | **80.320** | **1.0382** | **74.488** | **1.6620** | **.79401** |
| Stddev | .00060 | .00036 | .00032 | .50 | .370 | .0029 | .039 | .0032 | .00179 |
| %RSD | .12130 | .08780 | .08683 | .34618 | .46034 | .28186 | .05240 | .19538 | .22555 |
| #1 | .49334 | .40485 | .37107 | 142.66 | 80.058 | 1.0362 | 74.461 | 1.6597 | .79528 |
| #2 | .49419 | .40435 | .37152 | 143.36 | 80.581 | 1.0403 | 74.516 | 1.6643 | .79275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.100** | **.58367** | **11.878** | **.55395** | **3.1547** | **.15530** | **1.7963** | **4.6784** | **1.5877** |
| Stddev | .083 | .00009 | .004 | .00039 | .0017 | .00022 | .0056 | .0217 | .0024 |
| %RSD | .17560 | .01496 | .03393 | .07007 | .05372 | .14271 | .31348 | .46447 | .15346 |
| #1 | 47.041 | .58373 | 11.875 | .55368 | 3.1535 | .15515 | 1.8002 | 4.6631 | 1.5894 |
| #2 | 47.158 | .58361 | 11.881 | .55422 | 3.1559 | .15546 | 1.7923 | 4.6938 | 1.5860 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2214** | **1.0025** | **3.6293** | **1.6535** | **1.7272** | **.88728** | **.87464** | **.56179** |
| Stddev | .0041 | .0004 | .0048 | .0023 | .0247 | .00154 | .00177 | .00075 |
| %RSD | .33735 | .04304 | .13127 | .13805 | 1.4275 | .17366 | .20256 | .13309 |
| #1 | 1.2185 | 1.0022 | 3.6260 | 1.6551 | 1.7098 | .88619 | .87339 | .56232 |
| #2 | 1.2243 | 1.0028 | 3.6327 | 1.6519 | 1.7447 | .88837 | .87589 | .56126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5882.4** | **72327.** | **4676.9** |
| Stddev | 3.2 | 183. | 36.1 |
| %RSD | .05426 | .25331 | .77170 |
| #1 | 5884.7 | 72457. | 4702.5 |
| #2 | 5880.1 | 72198. | 4651.4 |

Sample Name: 280-41981-A-1-C MSD  Acquired: 5/16/2013 14:17:00  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05002** | **241.30** | **.89104** | **.98542** | **3.6830** | **.04911** | **1.8246** | **74.958** | **.09358** |
| Stddev | .00132 | .52 | .00099 | .00073 | .0036 | .00007 | .0007 | .075 | .00002 |
| %RSD | 2.6453 | .21448 | .11122 | .07440 | .09741 | .15166 | .03685 | .10034 | .01607 |
| #1 | .05095 | 241.66 | .89174 | .98490 | 3.6855 | .04917 | 1.8241 | 75.011 | .09359 |
| #2 | .04908 | 240.93 | .89034 | .98593 | 3.6804 | .04906 | 1.8251 | 74.905 | .09357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49668** | **.39348** | **.36259** | **134.69** | **79.667** | **1.0419** | **73.073** | **1.5345** | **.80735** |
| Stddev | .00056 | .00015 | .00015 | .40 | .037 | .0033 | .109 | .0006 | .00168 |
| %RSD | .11363 | .03838 | .04241 | .29950 | .04655 | .31412 | .14877 | .03750 | .20843 |
| #1 | .49708 | .39338 | .36249 | 134.98 | 79.693 | 1.0396 | 73.150 | 1.5349 | .80616 |
| #2 | .49628 | .39359 | .36270 | 134.41 | 79.641 | 1.0442 | 72.996 | 1.5341 | .80854 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.626** | **.57756** | **11.926** | **.55409** | **3.0279** | **.16626** | **1.8242** | **4.6600** | **1.6090** |
| Stddev | .027 | .00028 | .002 | .00184 | .0002 | .00088 | .0059 | .0140 | .0057 |
| %RSD | .05699 | .04855 | .01701 | .33279 | .00665 | .53129 | .32257 | .30041 | .35586 |
| #1 | 47.645 | .57776 | 11.928 | .55279 | 3.0278 | .16563 | 1.8284 | 4.6501 | 1.6131 |
| #2 | 47.606 | .57736 | 11.925 | .55540 | 3.0280 | .16688 | 1.8200 | 4.6699 | 1.6050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2149** | **1.0092** | **3.5515** | **1.6849** | **1.7448** | **.86331** | **.84115** | **.55242** |
| Stddev | .0010 | .0026 | .0007 | .0023 | .0061 | .00019 | .00052 | .00224 |
| %RSD | .08406 | .25851 | .01873 | .13493 | .34798 | .02188 | .06207 | .40575 |
| #1 | 1.2142 | 1.0110 | 3.5520 | 1.6865 | 1.7491 | .86344 | .84152 | .55401 |
| #2 | 1.2156 | 1.0074 | 3.5510 | 1.6833 | 1.7405 | .86317 | .84078 | .55084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5819.2** | **72140.** | **4654.4** |
| Stddev | 7.6 | 52. | 27.5 |
| %RSD | .13017 | .07184 | .58990 |
| #1 | 5813.9 | 72177. | 4635.0 |
| #2 | 5824.6 | 72104. | 4673.8 |

Sample Name: pds 280-41981-A-1-A  Acquired: 5/16/2013 14:19:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05020** | **146.26** | **.20785** | **.13579** | **1.8571** | **.04926** | **.00050** | **47.018** | **.04927** |
| Stddev | .00025 | .32 | .00123 | .00046 | .0021 | .00004 | .00181 | .088 | .00034 |
| %RSD | .49322 | .21877 | .59064 | .33764 | .11161 | .07900 | 359.06 | .18639 | .68955 |
| #1 | .05002 | 146.04 | .20698 | .13611 | 1.8556 | .04929 | .00178 | 46.956 | .04951 |
| #2 | .05037 | 146.49 | .20872 | .13546 | 1.8585 | .04924 | -.00077 | 47.080 | .04903 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09824** | **.19357** | **.17851** | **111.49** | **37.876** | **.18601** | **39.423** | **1.0698** | **.04532** |
| Stddev | .00015 | .00063 | .00005 | .06 | .097 | .00190 | .016 | .0010 | .00017 |
| %RSD | .15007 | .32676 | .02614 | .05001 | .25694 | 1.0223 | .04085 | .09612 | .37113 |
| #1 | .09835 | .19401 | .17854 | 111.53 | 37.807 | .18735 | 39.412 | 1.0691 | .04520 |
| #2 | .09814 | .19312 | .17848 | 111.45 | 37.945 | .18466 | 39.435 | 1.0706 | .04543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.371** | **.18385** | **4.5133** | **.20719** | **2.6561** | **.08853** | **.19692** | **7.6329** | **.09649** |
| Stddev | .257 | .00076 | .0063 | .00225 | .0022 | .00129 | .00013 | .0158 | .00070 |
| %RSD | 1.2627 | .41256 | .13994 | 1.0854 | .08209 | 1.4542 | .06376 | .20707 | .72757 |
| #1 | 20.553 | .18438 | 4.5178 | .20878 | 2.6577 | .08944 | .19701 | 7.6441 | .09599 |
| #2 | 20.189 | .18331 | 4.5088 | .20560 | 2.6546 | .08762 | .19683 | 7.6218 | .09699 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30418** | **.27717** | **1.0395** | **.17643** | **.37377** | **.31451** | **.54229** | **.16165** |
| Stddev | .00013 | .00143 | .0002 | .00170 | .00829 | .00115 | .00054 | .00161 |
| %RSD | .04342 | .51552 | .02144 | .96112 | 2.2172 | .36660 | .09939 | .99509 |
| #1 | .30409 | .27616 | 1.0396 | .17763 | .36791 | .31533 | .54267 | .16051 |
| #2 | .30428 | .27818 | 1.0393 | .17523 | .37963 | .31370 | .54190 | .16278 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5951.3** | **73110.** | **4653.5** |
| Stddev | 2.7 | 63. | 21.5 |
| %RSD | .04590 | .08680 | .46288 |
| #1 | 5953.2 | 73065. | 4668.7 |
| #2 | 5949.4 | 73155. | 4638.3 |

Sample Name: 280-41981-A-2-A Acquired: 5/16/2013 14:22:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **114.11** | **.02223** | **.04708** | **1.3108** | **.00483** | **.00071** | **33.039** | **.00269** |
| Stddev | .00066 | .96 | .00002 | .00040 | .0064 | .00002 | .00188 | .305 | .00006 |
| %RSD | 48.700 | .84150 | .07062 | .85867 | .49165 | .43336 | 262.69 | .92204 | 2.0768 |
| #1 | .00088 | 114.79 | .02222 | .04736 | 1.3153 | .00481 | -.00061 | 33.255 | .00265 |
| #2 | .00181 | 113.43 | .02224 | .04679 | 1.3062 | .00484 | .00204 | 32.824 | .00273 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03571** | **.11793** | **.15804** | **83.703** | **19.527** | **.07712** | **17.582** | **.71644** | **.00136** |
| Stddev | .00018 | .00001 | .00037 | .112 | .199 | .00264 | .041 | .00222 | .00018 |
| %RSD | .49533 | .01195 | .23412 | .13405 | 1.0191 | 3.4174 | .23481 | .30982 | 13.035 |
| #1 | .03559 | .11794 | .15778 | 83.782 | 19.668 | .07898 | 17.552 | .71487 | .00123 |
| #2 | .03584 | .11792 | .15830 | 83.623 | 19.387 | .07525 | 17.611 | .71801 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51823** | **.10490** | **2.3932** | **.09229** | **5.0190** | **-.00363** | **.00239** | **3.0801** | **.00728** |
| Stddev | .00223 | .00024 | .0110 | .00406 | .0151 | .00018 | .00480 | .0123 | .00049 |
| %RSD | .42941 | .22990 | .45880 | 4.3968 | .30083 | 4.9179 | 200.61 | .40028 | 6.7851 |
| #1 | .51666 | .10473 | 2.3854 | .08942 | 5.0083 | -.00376 | .00579 | 3.0888 | .00693 |
| #2 | .51981 | .10507 | 2.4009 | .09516 | 5.0297 | -.00351 | -.00100 | 3.0714 | .00763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24708** | **.05483** | **.75677** | **-.00337** | F **-.11719** | **.22176** | **.39277** | **.08399** |
| Stddev | .00196 | .00187 | .00318 | .00126 | .03958 | .00072 | .00124 | .00257 |
| %RSD | .79458 | 3.4192 | .41965 | 37.457 | 33.776 | .32246 | .31525 | 3.0591 |
| #1 | .24847 | .05350 | .75452 | -.00247 | -.08920 | .22126 | .39189 | .08581 |
| #2 | .24569 | .05615 | .75901 | -.00426 | -.14518 | .22227 | .39364 | .08218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5840.5** | **72503.** | **4599.3** |
| Stddev | 5.0 | 68. | 41.3 |
| %RSD | .08479 | .09328 | .89800 |
| #1 | 5844.0 | 72551. | 4570.1 |
| #2 | 5837.0 | 72455. | 4628.5 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 14:24:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **49.404** | **.00250** | **.00220** | **.00058** | **.00000** | **.97733** | **.00458** | **-.00055** | **.00200** | **.00018** | **-.00230** | **48.306** |
| Stddev | .00021 | .371 | .00024 | .00022 | .00060 | .00006 | .00786 | .00392 | .00010 | .00004 | .00004 | .00070 | .118 |
| %RSD | 115.47 | .75076 | 9.7482 | 9.7963 | 102.32 | 5688.6 | .80400 | 85.608 | 18.515 | 2.0833 | 24.367 | 30.351 | .24424 |
| #1 | .00033 | 49.142 | .00267 | .00235 | .00016 | -.00004 | .98289 | .00735 | -.00048 | .00203 | .00015 | -.00279 | 48.222 |
| #2 | .00003 | 49.667 | .00232 | .00204 | .00101 | .00004 | .97177 | .00181 | -.00062 | .00197 | .00021 | -.00180 | 48.389 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02682** | **-.00149** | **.01027** | **-.00017** | **-.00205** | **250.97** | **.00073** | **.00389** | **.00110** | **4.8812** | **-.00220** | **.00220** | **.01269** |
| Stddev | .01581 | .00004 | .00010 | .00003 | .00024 | 2.15 | .00021 | .00160 | .00035 | .0392 | .00135 | .00719 | .01995 |
| %RSD | 58.942 | 2.9731 | 1.0149 | 20.304 | 11.607 | .85635 | 28.817 | 41.119 | 31.932 | .80252 | 61.314 | 326.18 | 157.25 |
| #1 | .03800 | -.00152 | .01035 | -.00019 | -.00222 | 249.45 | .00058 | .00276 | .00086 | 4.9089 | -.00315 | -.00288 | -.00142 |
| #2 | .01564 | -.00145 | .01020 | -.00015 | -.00188 | 252.49 | .00088 | .00502 | .00135 | 4.8535 | -.00125 | .00729 | .02680 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00034** | **5.1220** | **.00391** | **-.00121** | **9.9192** | **-.00137** | **.00340** | **-.05531** |
| Stddev | .00109 | .00018 | .0286 | .00052 | .00180 | .0184 | .00043 | .00016 | .00359 |
| %RSD | 186.14 | 53.642 | .55789 | 13.411 | 148.82 | .18563 | 31.542 | 4.6266 | 6.4965 |
| #1 | .00136 | .00021 | 5.1018 | .00428 | .00006 | 9.9322 | -.00106 | .00351 | -.05277 |
| #2 | -.00019 | .00047 | 5.1422 | .00354 | -.00248 | 9.9061 | -.00167 | .00329 | -.05786 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5355.9** | **67749.** | **4202.5** |
| Stddev | 49.4 | 420. | 22.0 |
| %RSD | .92150 | .62064 | .52349 |
| #1 | 5390.8 | 68046. | 4218.1 |
| #2 | 5321.0 | 67451. | 4187.0 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 14:26:42 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51020** | **.50133** | **.96600** | **.51127** | **.49338** | **.46954** | **.00102** | **4.8910** | **.49964** | **.50555** | **.48446** | **.48267** | **2.3507** |
| Stddev | .00271 | .00123 | .00130 | .00000 | .00184 | .00172 | .00019 | .0271 | .00017 | .00004 | .00108 | .00416 | .0045 |
| %RSD | .53079 | .24580 | .13480 | .00061 | .37305 | .36679 | 19.009 | .55307 | .03380 | .00746 | .22204 | .86165 | .19171 |
| #1 | .50828 | .50220 | .96508 | .51128 | .49468 | .47075 | .00116 | 4.9101 | .49976 | .50557 | .48522 | .47973 | 2.3475 |
| #2 | .51211 | .50046 | .96692 | .51127 | .49207 | .46832 | .00089 | 4.8718 | .49952 | .50552 | .48370 | .48561 | 2.3539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.973** | **1.0060** | **19.428** | **.49649** | **.47436** | **4.7729** | **.49373** | **.99962** | **1.0072** | **-.04408** | **1.0015** | **1.0206** | **4.6916** |
| Stddev | .187 | .0036 | .142 | .00351 | .00166 | .0009 | .00206 | .00998 | .0039 | .00159 | .0051 | .0011 | .0046 |
| %RSD | .37467 | .35389 | .73339 | .70600 | .34919 | .01867 | .41625 | .99802 | .38607 | 3.6134 | .50620 | .10466 | .09753 |
| #1 | 50.106 | 1.0085 | 19.327 | .49401 | .47319 | 4.7723 | .49227 | .99256 | 1.0045 | -.04296 | .99796 | 1.0213 | 4.6884 |
| #2 | 49.841 | 1.0035 | 19.529 | .49896 | .47553 | 4.7735 | .49518 | 1.0067 | 1.0100 | -.04521 | 1.0051 | 1.0198 | 4.6949 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95454** | **.50953** | **.00310** | **.49383** | **.97224** | **.00596** | **.47941** | **.48535** | **.48363** |
| Stddev | .00030 | .00230 | .00017 | .00341 | .00346 | .06815 | .00403 | .00392 | .00107 |
| %RSD | .03189 | .45187 | 5.4610 | .69112 | .35557 | 1143.2 | .83997 | .80678 | .22054 |
| #1 | .95432 | .51115 | .00298 | .49141 | .96980 | .05415 | .47657 | .48258 | .48288 |
| #2 | .95475 | .50790 | .00322 | .49624 | .97469 | -.04223 | .48226 | .48812 | .48439 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5379.7** | **67153.** | **4085.7** |
| Stddev | 7.3 | 402. | 16.6 |
| %RSD | .13654 | .59866 | .40648 |
| #1 | 5384.9 | 67437. | 4073.9 |
| #2 | 5374.5 | 66868. | 4097.4 |

Sample Name: CCB Acquired: 5/16/2013 14:28:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00177** | **.00015** | **.00077** | **.00116** | **.00022** | **.00006** | **-.00257** | **-.00261** | **.00006** | **.00021** | **.00010** |
| Stddev | .00059 | .00041 | .00154 | .00077 | .00026 | .00006 | .00135 | .00334 | .00003 | .00019 | .00009 |
| %RSD | 33.366 | 265.33 | 200.64 | 66.256 | 116.48 | 93.686 | 52.612 | 128.06 | 47.988 | 93.934 | 87.098 |
| #1 | .00135 | .00045 | -.00032 | .00171 | .00004 | .00011 | -.00353 | -.00497 | .00009 | .00007 | .00017 |
| #2 | .00218 | -.00014 | .00186 | .00062 | .00041 | .00002 | -.00161 | -.00025 | .00004 | .00034 | .00004 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **-.00330** | **.01419** | **-.00260** | **.00038** | **-.00009** | **-.00004** | **-.05881** | **-.00019** | **.00002** | **.00086** |
| Stddev | .00037 | .00216 | .05556 | .00050 | .00080 | .00009 | .00038 | .02952 | .00016 | .00045 | .00041 |
| %RSD | 54.138 | 65.348 | 391.45 | 19.163 | 209.05 | 100.20 | 966.17 | 50.201 | 83.586 | 2898.5 | 48.018 |
| #1 | -.00042 | -.00178 | .05348 | -.00295 | .00095 | -.00015 | -.00031 | -.03794 | -.00030 | .00034 | .00057 |
| #2 | -.00095 | -.00483 | -.02509 | -.00224 | -.00018 | -.00003 | .00023 | -.07969 | -.00008 | -.00030 | .00116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04254** | **.00067** | **.00403** | **.01151** | **-.00022** | **.00020** | **.00195** | W **-.00061** | **-.00166** | **-.00461** | **-.00109** |
| Stddev | .00086 | .00040 | .00251 | .00862 | .00093 | .00008 | .00007 | .00034 | .00125 | .03474 | .00082 |
| %RSD | 2.0154 | 59.163 | 62.157 | 74.865 | 425.44 | 37.541 | 3.6741 | 56.019 | 74.980 | 753.34 | 75.537 |
| #1 | -.04314 | .00039 | .00226 | .00542 | .00044 | .00026 | .00190 | -.00037 | -.00078 | .01995 | -.00167 |
| #2 | -.04193 | .00096 | .00581 | .01761 | -.00087 | .00015 | .00200 | -.00085 | -.00255 | -.02918 | -.00051 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00060 | | | |
| Low Limit | | | | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | **.00094** |
| Stddev | .00005 | .00433 |
| %RSD | 2.0628 | 459.53 |
| #1 | .00263 | .00400 |
| #2 | .00255 | -.00212 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5426.4** | **67738.** | **4050.7** |
| Stddev | 7.6 | 8. | 9.3 |
| %RSD | .13996 | .01181 | .22846 |
| #1 | 5431.8 | 67743. | 4057.3 |
| #2 | 5421.1 | 67732. | 4044.2 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 14:31:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01209** | **.10262** | **.01546** | **.10300** | **.01028** | **.00089** | **.10602** | **.19461** | **.00530** | **.01053** | **.01009** |
| Stddev | .00008 | .00004 | .00324 | .00026 | .00024 | .00015 | .00356 | .00037 | .00019 | .00007 | .00020 |
| %RSD | .69926 | .03795 | 20.982 | .25464 | 2.3067 | 16.410 | 3.3567 | .19239 | 3.6121 | .64829 | 1.9560 |
| #1 | .01215 | .10259 | .01775 | .10282 | .01045 | .00079 | .10350 | .19488 | .00517 | .01048 | .00995 |
| #2 | .01203 | .10265 | .01316 | .10319 | .01011 | .00099 | .10853 | .19435 | .00544 | .01058 | .01023 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01337** | **.08999** | **3.1152** | **.00929** | **.20506** | **.01014** | **.01866** | **.94646** | **.04076** | **2.9520** | **.01030** |
| Stddev | .00002 | .00009 | .0237 | .00056 | .00403 | .00004 | .00026 | .00969 | .00020 | .0019 | .00098 |
| %RSD | .15631 | .10457 | .76080 | 6.0531 | 1.9666 | .34584 | 1.3950 | 1.0242 | .49591 | .06316 | 9.5258 |
| #1 | .01336 | .09006 | 3.1319 | .00969 | .20792 | .01011 | .01884 | .95332 | .04091 | 2.9507 | .00960 |
| #2 | .01339 | .08992 | 3.0984 | .00890 | .20221 | .01016 | .01847 | .93961 | .04062 | 2.9533 | .01099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04692** | **.00988** | W **.01882** | **.49170** | **.09659** | **.01052** | **.01661** | **.00939** | **.01331** | **.05296** | **.00921** |
| Stddev | .00391 | .00246 | .00191 | .00756 | .00008 | .00013 | .00015 | .00007 | .00036 | .02283 | .00046 |
| %RSD | 8.3392 | 24.886 | 10.171 | 1.5375 | .08716 | 1.2612 | .91104 | .73788 | 2.7021 | 43.113 | 5.0019 |
| #1 | -.04416 | .00815 | .01746 | .48635 | .09665 | .01043 | .01651 | .00944 | .01356 | .03682 | .00954 |
| #2 | -.04969 | .01162 | .02017 | .49704 | .09653 | .01062 | .01672 | .00934 | .01305 | .06911 | .00888 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02260** | **.01511** |
| Stddev | .00011 | .00026 |
| %RSD | .47001 | 1.7289 |
| #1 | .02253 | .01529 |
| #2 | .02268 | .01492 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5480.0** | **68556.** | **4089.6** |
| Stddev | 4.7 | 71. | 19.2 |
| %RSD | .08541 | .10376 | .46986 |
| #1 | 5476.7 | 68506. | 4076.0 |
| #2 | 5483.3 | 68606. | 4103.2 |

Sample Name: 280-41981-A-4-A  Acquired: 5/16/2013 14:33:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00173** | **145.51** | **.06373** | **.03887** | **1.5977** | **.00609** | **.00201** | **32.659** | **.00251** |
| Stddev | .00046 | 1.38 | .00121 | .00029 | .0126 | .00001 | .00078 | .292 | .00002 |
| %RSD | 26.773 | .94806 | 1.8977 | .75875 | .78989 | .16372 | 38.855 | .89351 | .83862 |
| #1 | .00140 | 144.53 | .06288 | .03866 | 1.5888 | .00609 | .00146 | 32.453 | .00252 |
| #2 | .00206 | 146.48 | .06459 | .03908 | 1.6066 | .00608 | .00256 | 32.866 | .00249 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05842** | **.14977** | **.10653** | **140.22** | **22.130** | **.08843** | **23.911** | **2.4446** | **.00178** |
| Stddev | .00022 | .00002 | .00027 | .84 | .202 | .00097 | .014 | .0009 | .00033 |
| %RSD | .37826 | .01108 | .25307 | .59622 | .91470 | 1.0937 | .05922 | .03640 | 18.702 |
| #1 | .05827 | .14976 | .10672 | 140.81 | 21.987 | .08775 | 23.901 | 2.4440 | .00201 |
| #2 | .05858 | .14978 | .10634 | 139.63 | 22.273 | .08911 | 23.921 | 2.4452 | .00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51555** | **.13760** | **4.0036** | **.11209** | **2.4459** | **-.00446** | **.00861** | **2.7433** | **.00834** |
| Stddev | .01366 | .00003 | .0007 | .00143 | .0062 | .00094 | .00170 | .0330 | .00032 |
| %RSD | 2.6505 | .01995 | .01662 | 1.2741 | .25265 | 21.124 | 19.742 | 1.2042 | 3.8538 |
| #1 | .50588 | .13762 | 4.0041 | .11309 | 2.4416 | -.00380 | .00740 | 2.7199 | .00811 |
| #2 | .52521 | .13758 | 4.0032 | .11108 | 2.4503 | -.00513 | .00981 | 2.7667 | .00857 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35954** | **.07768** | **.73678** | **-.00442** | F **-.13753** | **.32257** | **.58453** | **.09016** |
| Stddev | .00334 | .00123 | .00021 | .00125 | .03630 | .00085 | .00009 | .00158 |
| %RSD | .92819 | 1.5778 | .02809 | 28.405 | 26.394 | .26314 | .01552 | 1.7483 |
| #1 | .35718 | .07682 | .73693 | -.00353 | -.16320 | .32197 | .58447 | .08904 |
| #2 | .36190 | .07855 | .73663 | -.00530 | -.11186 | .32317 | .58459 | .09127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5876.8** | **72149.** | **4579.8** |
| Stddev | 7.4 | 28. | 38.3 |
| %RSD | .12566 | .03883 | .83676 |
| #1 | 5871.6 | 72169. | 4606.9 |
| #2 | 5882.1 | 72129. | 4552.7 |

Sample Name: 280-41981-A-6-A  Acquired: 5/16/2013 14:36:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00166** | **124.26** | **.05485** | **.09434** | **1.2401** | **.00606** | **-.00201** | **346.46** | **.00164** |
| Stddev | .00059 | .51 | .00024 | .00001 | .0080 | .00008 | .00199 | 2.91 | .00004 |
| %RSD | 35.592 | .41180 | .43124 | .00833 | .64362 | 1.2459 | 99.443 | .83959 | 2.3621 |
| #1 | .00207 | 124.62 | .05502 | .09433 | 1.2457 | .00601 | -.00342 | 348.51 | .00167 |
| #2 | .00124 | 123.90 | .05468 | .09434 | 1.2344 | .00611 | -.00060 | 344.40 | .00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11036** | **.14262** | **.13652** | **167.13** | **30.756** | **.07912** | **27.697** | **5.2802** | **.00290** |
| Stddev | .00040 | .00008 | .00080 | .04 | .110 | .00046 | .033 | .0067 | .00005 |
| %RSD | .35991 | .05667 | .58605 | .02095 | .35637 | .57728 | .11775 | .12687 | 1.5867 |
| #1 | .11008 | .14268 | .13709 | 167.11 | 30.833 | .07880 | 27.720 | 5.2849 | .00293 |
| #2 | .11064 | .14257 | .13595 | 167.15 | 30.678 | .07944 | 27.674 | 5.2754 | .00287 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5194** | **.19091** | **5.9364** | **.25245** | **2.1195** | **-.00352** | **.00030** | **3.1440** | **.00751** |
| Stddev | .0081 | .00038 | .0008 | .00005 | .0019 | .00022 | .00191 | .0070 | .00037 |
| %RSD | .53651 | .19743 | .01395 | .02122 | .08927 | 6.1889 | 642.27 | .22430 | 4.9846 |
| #1 | 1.5136 | .19117 | 5.9358 | .25241 | 2.1182 | -.00337 | -.00105 | 3.1489 | .00724 |
| #2 | 1.5251 | .19064 | 5.9370 | .25248 | 2.1209 | -.00368 | .00165 | 3.1390 | .00777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86436** | **.08889** | **.45219** | **-.00485** | W **-.09932** | **.16579** | **.31176** | **.06535** |
| Stddev | .00392 | .00045 | .00087 | .00024 | .04589 | .00047 | .00076 | .00042 |
| %RSD | .45308 | .51111 | .19285 | 4.9080 | 46.204 | .28411 | .24285 | .64829 |
| #1 | .86713 | .08921 | .45281 | -.00468 | -.06687 | .16612 | .31123 | .06505 |
| #2 | .86159 | .08857 | .45158 | -.00502 | -.13177 | .16545 | .31230 | .06565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5614.0** | **69488.** | **4462.4** |
| Stddev | 4.3 | 135. | 10.9 |
| %RSD | .07617 | .19399 | .24470 |
| #1 | 5611.0 | 69393. | 4454.7 |
| #2 | 5617.1 | 69583. | 4470.1 |

Sample Name: 280-42003-A-1-A  Acquired: 5/16/2013 14:38:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00249** | **145.05** | **.06814** | **.06741** | **1.4571** | **.00743** | **.00118** | **74.250** | **.00762** |
| Stddev | .00049 | .78 | .00086 | .00022 | .0086 | .00002 | .00184 | .410 | .00002 |
| %RSD | 19.820 | .53794 | 1.2602 | .33026 | .58982 | .26112 | 155.17 | .55199 | .21922 |
| #1 | .00283 | 145.60 | .06753 | .06726 | 1.4631 | .00741 | .00248 | 74.540 | .00763 |
| #2 | .00214 | 144.50 | .06875 | .06757 | 1.4510 | .00744 | -.00012 | 73.960 | .00761 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09651** | **.18038** | **.21090** | **198.77** | **28.108** | **.14157** | **33.340** | W **14.127** | **.00217** |
| Stddev | .00027 | .00060 | .00083 | .80 | .159 | .00017 | .051 | .069 | .00026 |
| %RSD | .27652 | .33506 | .39217 | .40449 | .56467 | .11918 | .15354 | .48626 | 12.233 |
| #1 | .09632 | .17996 | .21149 | 198.20 | 28.220 | .14169 | 33.376 | 14.078 | .00198 |
| #2 | .09670 | .18081 | .21032 | 199.34 | 27.996 | .14145 | 33.304 | 14.175 | .00235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.87803** | **.21647** | **5.5837** | **.17871** | **3.8035** | **-.00690** | **.00079** | **2.7288** | **.01603** |
| Stddev | .00406 | .00062 | .0160 | .00166 | .0249 | .00144 | .00305 | .0273 | .00002 |
| %RSD | .46292 | .28653 | .28662 | .92791 | .65573 | 20.938 | 385.38 | 1.0019 | .09720 |
| #1 | .88091 | .21603 | 5.5724 | .17753 | 3.7858 | -.00792 | -.00137 | 2.7095 | .01604 |
| #2 | .87516 | .21691 | 5.5950 | .17988 | 3.8211 | -.00588 | .00295 | 2.7481 | .01602 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27947** | **.08984** | **.49776** | W **-.01147** | F **-.11870** | **.21445** | **6.9934** | **.04788** |
| Stddev | .00157 | .00042 | .00001 | .00090 | .01694 | .00042 | .0082 | .00190 |
| %RSD | .56136 | .46553 | .00277 | 7.8458 | 14.272 | .19557 | .11663 | 3.9581 |
| #1 | .28058 | .08954 | .49777 | -.01084 | -.10672 | .21475 | 6.9991 | .04922 |
| #2 | .27836 | .09014 | .49775 | -.01211 | -.13068 | .21416 | 6.9876 | .04654 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | 50.000 | | | |
| Low Limit | | | | -.01000 | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5807.5** | **71782.** | **4598.2** |
| Stddev | 11.0 | 45. | 7.3 |
| %RSD | .19025 | .06309 | .15807 |
| #1 | 5815.3 | 71814. | 4593.0 |
| #2 | 5799.7 | 71750. | 4603.3 |

Sample Name: 280-42003-A-12-A  Acquired: 5/16/2013 14:40:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00156** | **99.767** | **.04418** | **.09088** | **.91162** | **.00570** | **-.00048** | **378.12** | **.01058** |
| Stddev | .00005 | .334 | .00299 | .00095 | .00049 | .00003 | .00282 | .56 | .00000 |
| %RSD | 3.4909 | .33525 | 6.7672 | 1.0499 | .05345 | .52185 | 586.84 | .14779 | .04715 |
| #1 | .00152 | 99.530 | .04629 | .09021 | .91127 | .00567 | .00151 | 378.51 | .01058 |
| #2 | .00159 | 100.00 | .04206 | .09156 | .91196 | .00572 | -.00248 | 377.72 | .01057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05903** | **.13761** | **.60861** | **128.76** | **25.389** | **.08106** | **30.990** | **3.9883** | **.00423** |
| Stddev | .00023 | .00053 | .00690 | .00 | .090 | .00210 | .281 | .0353 | .00009 |
| %RSD | .39387 | .38751 | 1.1335 | .00092 | .35406 | 2.5960 | .90809 | .88413 | 2.1794 |
| #1 | .05920 | .13724 | .61349 | 128.76 | 25.452 | .08255 | 31.189 | 4.0133 | .00429 |
| #2 | .05887 | .13799 | .60374 | 128.76 | 25.325 | .07957 | 30.791 | 3.9634 | .00416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2609** | **.16089** | **3.5692** | **.86754** | **12.152** | **.00320** | **.00604** | **2.9890** | **.01121** |
| Stddev | .0023 | .00060 | .0108 | .00216 | .040 | .00084 | .00278 | .0217 | .00038 |
| %RSD | .17949 | .37231 | .30250 | .24899 | .32984 | 26.321 | 45.988 | .72524 | 3.4192 |
| #1 | 1.2625 | .16047 | 3.5616 | .86602 | 12.124 | .00261 | .00407 | 2.9737 | .01148 |
| #2 | 1.2593 | .16132 | 3.5768 | .86907 | 12.181 | .00380 | .00800 | 3.0044 | .01094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1488** | **.06270** | **.34286** | **-.00464** | F **-.11453** | **.11327** | W **10.060** | **.04188** |
| Stddev | .0031 | .00002 | .00022 | .00138 | .02319 | .00059 | .080 | .00235 |
| %RSD | .26652 | .02463 | .06470 | 29.819 | 20.248 | .51757 | .79082 | 5.6021 |
| #1 | 1.1466 | .06271 | .34302 | -.00561 | -.13093 | .11368 | 10.116 | .04022 |
| #2 | 1.1509 | .06269 | .34271 | -.00366 | -.09813 | .11285 | 10.003 | .04354 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 50.000 | | 10.000 | |
| Low Limit | | | | | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5375.7** | **66743.** | **4264.1** |
| Stddev | 9.7 | 462. | 36.9 |
| %RSD | .18099 | .69149 | .86566 |
| #1 | 5368.8 | 66417. | 4290.2 |
| #2 | 5382.6 | 67070. | 4238.0 |

Sample Name: 280-42039-A-1-A  Acquired: 5/16/2013 14:43:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00283** | **91.253** | **.05288** | **.02409** | **.45438** | **.00412** | **-.00109** | **77.599** | **.00173** |
| Stddev | .00017 | .105 | .00286 | .00028 | .00120 | .00011 | .00065 | .277 | .00014 |
| %RSD | 5.9498 | .11481 | 5.3997 | 1.1611 | .26336 | 2.6003 | 59.465 | .35756 | 7.9332 |
| #1 | .00295 | 91.327 | .05086 | .02428 | .45523 | .00420 | -.00063 | 77.795 | .00163 |
| #2 | .00271 | 91.179 | .05489 | .02389 | .45354 | .00405 | -.00154 | 77.402 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07698** | **.10460** | **.32927** | **225.68** | **9.6899** | **.14005** | **34.636** | W **13.339** | **.00302** |
| Stddev | .00035 | .00011 | .00009 | .09 | .0748 | .00188 | .084 | .065 | .00035 |
| %RSD | .45611 | .10759 | .02615 | .04022 | .77191 | 1.3426 | .24318 | .48984 | 11.496 |
| #1 | .07673 | .10468 | .32921 | 225.75 | 9.7428 | .14138 | 34.695 | 13.385 | .00277 |
| #2 | .07722 | .10452 | .32933 | 225.62 | 9.6370 | .13872 | 34.576 | 13.293 | .00326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52121** | **.17645** | **5.1544** | **.06964** | **.80487** | **-.00545** | **-.00022** | **1.9380** | **.00560** |
| Stddev | .00077 | .00006 | .0186 | .00116 | .00210 | .00421 | .00264 | .0495 | .00043 |
| %RSD | .14711 | .03514 | .36013 | 1.6679 | .26030 | 77.278 | 1193.5 | 2.5515 | 7.7080 |
| #1 | .52175 | .17649 | 5.1413 | .06882 | .80339 | -.00842 | .00165 | 1.9729 | .00590 |
| #2 | .52066 | .17640 | 5.1675 | .07046 | .80636 | -.00247 | -.00209 | 1.9030 | .00529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14534** | **.07514** | **.37312** | **-.01000** | **-.03524** | **.15666** | **.45199** | **.03355** |
| Stddev | .00072 | .00041 | .00058 | .00020 | .00183 | .00065 | .00220 | .00169 |
| %RSD | .49614 | .54508 | .15641 | 1.9580 | 5.1986 | .41639 | .48577 | 5.0362 |
| #1 | .14585 | .07485 | .37353 | -.01013 | -.03653 | .15712 | .45354 | .03474 |
| #2 | .14483 | .07543 | .37271 | -.00986 | -.03394 | .15619 | .45043 | .03235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6111.1** | **75770.** | **4769.9** |
| Stddev | 20.3 | 387. | 18.7 |
| %RSD | .33250 | .51055 | .39259 |
| #1 | 6096.7 | 75497. | 4756.7 |
| #2 | 6125.5 | 76044. | 4783.2 |

Sample Name: 280-42039-A-2-A  Acquired: 5/16/2013 14:45:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00236** | **100.78** | **.03719** | **.02046** | **.78308** | **.00369** | **.00175** | **35.754** | **.00229** |
| Stddev | .00012 | .16 | .00153 | .00064 | .00441 | .00001 | .00105 | .047 | .00023 |
| %RSD | 4.9772 | .16263 | 4.1111 | 3.1056 | .56290 | .14631 | 60.100 | .13134 | 10.095 |
| #1 | .00228 | 100.66 | .03611 | .02091 | .77996 | .00370 | .00101 | 35.720 | .00213 |
| #2 | .00244 | 100.89 | .03827 | .02001 | .78619 | .00369 | .00250 | 35.787 | .00246 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05673** | **.11883** | **.13723** | **200.71** | **7.7365** | **.12815** | **19.233** | W **13.511** | **.00902** |
| Stddev | .00010 | .00001 | .00108 | .41 | .0382 | .00382 | .047 | .171 | .00010 |
| %RSD | .18188 | .00919 | .78351 | .20200 | .49356 | 2.9771 | .24291 | 1.2671 | 1.1314 |
| #1 | .05681 | .11883 | .13799 | 200.43 | 7.7635 | .13084 | 19.266 | 13.390 | .00909 |
| #2 | .05666 | .11882 | .13647 | 201.00 | 7.7095 | .12545 | 19.200 | 13.632 | .00895 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5797** | **.09690** | **9.4656** | **.08842** | **1.3278** | **-.00519** | **.00343** | **2.2420** | **.00957** |
| Stddev | .0267 | .00005 | .0040 | .00175 | .0036 | .00112 | .00161 | .0285 | .00014 |
| %RSD | 1.6894 | .05445 | .04177 | 1.9755 | .27075 | 21.509 | 46.951 | 1.2734 | 1.4641 |
| #1 | 1.5609 | .09694 | 9.4628 | .08965 | 1.3253 | -.00598 | .00456 | 2.2621 | .00967 |
| #2 | 1.5986 | .09686 | 9.4684 | .08718 | 1.3304 | -.00440 | .00229 | 2.2218 | .00947 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07829** | **.06143** | **.92432** | **-.00892** | **.00853** | **.21099** | **.49249** | **.01028** |
| Stddev | .00043 | .00333 | .00543 | .00047 | .02975 | .00080 | .00109 | .00076 |
| %RSD | .54950 | 5.4268 | .58726 | 5.3065 | 348.87 | .37710 | .22051 | 7.4018 |
| #1 | .07860 | .06379 | .92816 | -.00858 | -.01251 | .21155 | .49326 | .00974 |
| #2 | .07799 | .05907 | .92048 | -.00925 | .02956 | .21042 | .49172 | .01082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5596.2** | **68545.** | **4291.8** |
| Stddev | 5.0 | 206. | 28.4 |
| %RSD | .08895 | .30065 | .66096 |
| #1 | 5599.7 | 68399. | 4311.8 |
| #2 | 5592.7 | 68690. | 4271.7 |

Sample Name: 280-42039-A-3-A  Acquired: 5/16/2013 14:48:11  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00241** | **96.978** | **.03618** | **.02426** | **.43730** | **.00469** | **.00070** | **23.440** | **.00135** |
| Stddev | .00030 | .577 | .00345 | .00009 | .00211 | .00001 | .00319 | .139 | .00003 |
| %RSD | 12.536 | .59537 | 9.5416 | .35052 | .48338 | .30330 | 453.20 | .59221 | 2.5288 |
| #1 | .00263 | 97.386 | .03374 | .02432 | .43880 | .00470 | .00296 | 23.538 | .00137 |
| #2 | .00220 | 96.570 | .03862 | .02420 | .43581 | .00468 | -.00155 | 23.342 | .00133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06419** | **.13935** | **.25930** | **195.51** | **10.563** | **.17749** | **34.007** | **9.5807** | **.00939** |
| Stddev | .00018 | .00126 | .00044 | .73 | .061 | .00169 | .015 | .0764 | .00007 |
| %RSD | .27400 | .90681 | .17086 | .37589 | .57912 | .95465 | .04306 | .79742 | .69636 |
| #1 | .06406 | .13846 | .25962 | 196.02 | 10.606 | .17869 | 34.017 | 9.5266 | .00934 |
| #2 | .06431 | .14024 | .25899 | 194.99 | 10.520 | .17629 | 33.997 | 9.6347 | .00943 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89250** | **.14514** | **5.8172** | **.05511** | **.50561** | **-.00449** | **.00338** | **1.9559** | **.00744** |
| Stddev | .00330 | .00038 | .0322 | .00137 | .00543 | .00142 | .00007 | .0250 | .00028 |
| %RSD | .36999 | .26261 | .55391 | 2.4870 | 1.0740 | 31.632 | 2.0331 | 1.2755 | 3.7649 |
| #1 | .89483 | .14487 | 5.7944 | .05414 | .50177 | -.00348 | .00333 | 1.9736 | .00764 |
| #2 | .89016 | .14541 | 5.8400 | .05608 | .50945 | -.00549 | .00343 | 1.9383 | .00724 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06179** | **.08803** | **.64863** | **-.00908** | W **-.05781** | **.14819** | **.48560** | **.02636** |
| Stddev | .00014 | .00040 | .00385 | .00042 | .01414 | .00012 | .00038 | .00564 |
| %RSD | .21926 | .45440 | .59351 | 4.5964 | 24.452 | .07890 | .07912 | 21.404 |
| #1 | .06188 | .08774 | .65135 | -.00879 | -.06781 | .14811 | .48533 | .03034 |
| #2 | .06169 | .08831 | .64590 | -.00938 | -.04781 | .14827 | .48588 | .02237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6170.2** | **76292.** | **4737.1** |
| Stddev | 11.3 | 18. | 34.0 |
| %RSD | .18392 | .02351 | .71676 |
| #1 | 6162.1 | 76305. | 4713.1 |
| #2 | 6178.2 | 76279. | 4761.1 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 14:50:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **49.712** | **.00061** | **-.00021** | **-.00007** | **-.00003** | **.98150** | **-.00247** | **-.00071** | **.00205** | **.00007** | **-.00219** | **48.994** |
| Stddev | .00038 | .354 | .00051 | .00054 | .00011 | .00007 | .00794 | .00189 | .00001 | .00001 | .00043 | .00025 | .065 |
| %RSD | 38.302 | .71263 | 83.815 | 253.10 | 161.55 | 220.75 | .80882 | 76.248 | 2.1010 | .43846 | 598.25 | 11.559 | .13249 |
| #1 | .00073 | 49.962 | .00025 | -.00060 | .00001 | .00002 | .98711 | -.00381 | -.00070 | .00205 | -.00023 | -.00237 | 49.040 |
| #2 | .00128 | 49.461 | .00097 | .00017 | -.00015 | -.00008 | .97589 | -.00114 | -.00072 | .00204 | .00038 | -.00201 | 48.948 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00204** | **-.00019** | **.00820** | **.00000** | **-.00236** | **254.02** | **.00128** | **.00463** | **.00032** | **4.8938** | **-.00101** | **.00615** | **.00664** |
| Stddev | .02069 | .00042 | .00031 | .00006 | .00016 | 2.41 | .00018 | .00093 | .00032 | .0133 | .00127 | .00510 | .02332 |
| %RSD | 1016.5 | 222.71 | 3.7623 | 2089.4 | 6.5924 | .94820 | 13.874 | 20.014 | 97.420 | .27238 | 126.04 | 82.967 | 351.43 |
| #1 | .01259 | .00011 | .00799 | .00004 | -.00225 | 255.73 | .00116 | .00397 | .00055 | 4.9032 | -.00011 | .00254 | -.00985 |
| #2 | -.01666 | -.00048 | .00842 | -.00004 | -.00247 | 252.32 | .00141 | .00528 | .00010 | 4.8843 | -.00191 | .00976 | .02313 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00055** | **5.1599** | **.00408** | **-.00337** | **10.035** | **-.00175** | **.00241** | **-.05389** |
| Stddev | .00168 | .00005 | .0013 | .00055 | .00147 | .047 | .00016 | .00017 | .00160 |
| %RSD | 380.99 | 9.1533 | .02564 | 13.592 | 43.533 | .47041 | 8.9836 | 6.8735 | 2.9695 |
| #1 | .00163 | .00058 | 5.1589 | .00369 | -.00233 | 10.002 | -.00164 | .00230 | -.05503 |
| #2 | -.00075 | .00051 | 5.1608 | .00447 | -.00440 | 10.068 | -.00186 | .00253 | -.05276 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5211.4** | **65616.** | **3985.8** |
| Stddev | 5.6 | 63. | 37.8 |
| %RSD | .10752 | .09659 | .94727 |
| #1 | 5215.4 | 65571. | 3959.1 |
| #2 | 5207.5 | 65661. | 4012.5 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 14:52:57 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51234** | **.51689** | **.97688** | **.51155** | **.49702** | **.47103** | **.00270** | **4.9064** | **.49997** | **.51151** | **.48661** | **.48702** | **2.3574** |
| Stddev | .00112 | .00059 | .00059 | .00384 | .00295 | .00425 | .00216 | .0322 | .00025 | .00042 | .00016 | .00051 | .0141 |
| %RSD | .21833 | .11324 | .06076 | .75125 | .59404 | .90132 | 79.977 | .65600 | .05035 | .08173 | .03196 | .10485 | .59832 |
| #1 | .51155 | .51647 | .97730 | .51427 | .49910 | .47403 | .00117 | 4.9291 | .49979 | .51121 | .48650 | .48738 | 2.3674 |
| #2 | .51313 | .51730 | .97646 | .50883 | .49493 | .46803 | .00423 | 4.8836 | .50015 | .51180 | .48672 | .48666 | 2.3474 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.406** | **1.0123** | **19.723** | **.50241** | **.47804** | **4.7894** | **.49747** | **1.0055** | **1.0124** | **-.04377** | **1.0031** | **1.0233** | **4.7594** |
| Stddev | .477 | .0072 | .006 | .00052 | .00012 | .0314 | .00062 | .0044 | .0025 | .00290 | .0004 | .0046 | .0097 |
| %RSD | .94612 | .70729 | .03093 | .10292 | .02486 | .65600 | .12469 | .44175 | .25095 | 6.6236 | .03885 | .44671 | .20291 |
| #1 | 50.743 | 1.0174 | 19.719 | .50204 | .47795 | 4.8116 | .49791 | 1.0023 | 1.0142 | -.04582 | 1.0028 | 1.0265 | 4.7662 |
| #2 | 50.069 | 1.0072 | 19.727 | .50277 | .47812 | 4.7672 | .49704 | 1.0086 | 1.0106 | -.04172 | 1.0034 | 1.0201 | 4.7526 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96041** | **.51161** | **.00360** | **.49873** | **.97493** | **.00275** | **.48767** | **.49499** | **.48816** |
| Stddev | .00110 | .00472 | .00045 | .00042 | .00102 | .01159 | .00097 | .00039 | .00179 |
| %RSD | .11404 | .92308 | 12.482 | .08518 | .10418 | 421.32 | .19858 | .07845 | .36631 |
| #1 | .96119 | .51495 | .00328 | .49903 | .97565 | .01094 | .48698 | .49526 | .48942 |
| #2 | .95964 | .50827 | .00392 | .49843 | .97421 | -.00544 | .48835 | .49471 | .48690 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5287.2** | **65732.** | **3980.6** |
| Stddev | 10.0 | 30. | 45.9 |
| %RSD | .18991 | .04595 | 1.1522 |
| #1 | 5280.1 | 65754. | 3948.2 |
| #2 | 5294.3 | 65711. | 4013.0 |

Sample Name: CCB Acquired: 5/16/2013 14:55:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00136** | **-.00017** | **.00264** | **-.00033** | **-.00037** | **-.00003** | **-.00095** | **-.00314** | **-.00003** | **.00003** | **.00000** |
| Stddev | .00011 | .00023 | .00160 | .00028 | .00012 | .00004 | .00056 | .00025 | .00001 | .00003 | .00020 |
| %RSD | 8.1703 | 130.58 | 60.605 | 83.044 | 31.558 | 154.47 | 58.903 | 7.9055 | 36.386 | 101.17 | 11949. |
| #1 | .00128 | -.00001 | .00377 | -.00014 | -.00045 | .00000 | -.00056 | -.00332 | -.00004 | .00006 | -.00014 |
| #2 | .00144 | -.00033 | .00151 | -.00053 | -.00028 | -.00005 | -.00135 | -.00297 | -.00002 | .00001 | .00014 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00087** | **-.00317** | **.07025** | W **-.00453** | **.00026** | **-.00012** | **-.00003** | F **-.10236** | **-.00025** | **.00056** | **.00206** |
| Stddev | .00025 | .00150 | .02692 | .00236 | .00035 | .00004 | .00017 | .00147 | .00016 | .00042 | .00041 |
| %RSD | 28.346 | 47.361 | 38.325 | 52.022 | 133.38 | 36.240 | 521.75 | 1.4404 | 62.765 | 75.815 | 19.936 |
| #1 | -.00070 | -.00211 | .08929 | -.00287 | .00001 | -.00016 | -.00015 | -.10340 | -.00036 | .00085 | .00177 |
| #2 | -.00105 | -.00423 | .05121 | -.00620 | .00051 | -.00009 | .00009 | -.10132 | -.00014 | .00026 | .00235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04573** | **-.00155** | **.00091** | **.00667** | **.00037** | **-.00006** | **.00306** | **-.00026** | **-.00183** | **.04122** | W **-.00129** |
| Stddev | .00020 | .00064 | .00415 | .00961 | .00019 | .00013 | .00290 | .00019 | .00082 | .04315 | .00030 |
| %RSD | .43202 | 40.972 | 453.97 | 144.18 | 51.568 | 221.56 | 94.938 | 72.683 | 44.555 | 104.69 | 23.369 |
| #1 | -.04559 | -.00200 | -.00202 | .01346 | .00023 | .00003 | .00511 | -.00040 | -.00126 | .01071 | -.00108 |
| #2 | -.04587 | -.00110 | .00385 | -.00013 | .00050 | -.00015 | .00100 | -.00013 | -.00241 | .07173 | -.00151 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00252** | **.00092** |
| Stddev | .00010 | .00073 |
| %RSD | 4.0257 | 79.168 |
| #1 | .00245 | .00040 |
| #2 | .00259 | .00143 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5280.7** | **65892.** | **3935.8** |
| Stddev | 3.2 | 107. | 36.0 |
| %RSD | .06067 | .16189 | .91491 |
| #1 | 5278.4 | 65816. | 3910.4 |
| #2 | 5283.0 | 65967. | 3961.3 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 14:57:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01154** | **.10263** | **.01519** | **.10160** | **.00995** | **.00093** | **.10193** | **.19249** | **.00511** | **.01054** | **.00996** |
| Stddev | .00095 | .00018 | .00080 | .00079 | .00041 | .00004 | .00015 | .00031 | .00007 | .00020 | .00016 |
| %RSD | 8.1905 | .17177 | 5.2503 | .77577 | 4.1120 | 4.3235 | .14997 | .16018 | 1.3278 | 1.8950 | 1.6090 |
| #1 | .01221 | .10275 | .01463 | .10104 | .00966 | .00090 | .10182 | .19227 | .00506 | .01068 | .01007 |
| #2 | .01087 | .10251 | .01576 | .10216 | .01023 | .00095 | .10204 | .19271 | .00516 | .01040 | .00984 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01353** | **.08826** | **3.1233** | **.00861** | **.20754** | **.01023** | **.01861** | **.90637** | **.04016** | **2.9507** | **.01029** |
| Stddev | .00008 | .00256 | .0630 | .00245 | .00095 | .00005 | .00013 | .01482 | .00004 | .0007 | .00145 |
| %RSD | .57116 | 2.9024 | 2.0166 | 28.493 | .45719 | .46848 | .71017 | 1.6349 | .09503 | .02451 | 14.046 |
| #1 | .01359 | .08645 | 3.0787 | .01034 | .20687 | .01026 | .01871 | .91685 | .04013 | 2.9502 | .00927 |
| #2 | .01348 | .09007 | 3.1678 | .00687 | .20821 | .01019 | .01852 | .89589 | .04018 | 2.9512 | .01131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04573** | W **.00705** | **.01444** | **.48595** | **.09588** | **.01040** | **.01768** | **.00980** | **.01483** | **.06927** | **.00868** |
| Stddev | .00116 | .00364 | .00151 | .00495 | .00023 | .00010 | .00037 | .00002 | .00054 | .00108 | .00031 |
| %RSD | 2.5396 | 51.682 | 10.470 | 1.0186 | .23986 | .99744 | 2.0844 | .22772 | 3.6288 | 1.5537 | 3.5271 |
| #1 | -.04491 | .00447 | .01337 | .48245 | .09572 | .01032 | .01794 | .00981 | .01445 | .06851 | .00889 |
| #2 | -.04656 | .00963 | .01551 | .48945 | .09604 | .01047 | .01742 | .00978 | .01521 | .07003 | .00846 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | -20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02272** | **.01540** |
| Stddev | .00059 | .00223 |
| %RSD | 2.6061 | 14.464 |
| #1 | .02314 | .01382 |
| #2 | .02231 | .01697 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5366.5** | **66683.** | **3982.2** |
| Stddev | 14.2 | 81. | 19.3 |
| %RSD | .26538 | .12214 | .48487 |
| #1 | 5356.4 | 66740. | 3968.6 |
| #2 | 5376.5 | 66625. | 3995.9 |

Sample Name: 280-42039-A-4-A  Acquired: 5/16/2013 15:00:06  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00168** | **80.826** | **.05271** | **.03311** | **.31382** | **.00428** | **.00305** | **66.926** | **.00208** |
| Stddev | .00009 | .158 | .00246 | .00031 | .00088 | .00002 | .00121 | .092 | .00013 |
| %RSD | 5.6075 | .19533 | 4.6618 | .92616 | .28167 | .52760 | 39.677 | .13735 | 6.3075 |
| #1 | .00162 | 80.938 | .05097 | .03290 | .31445 | .00427 | .00390 | 66.991 | .00217 |
| #2 | .00175 | 80.715 | .05445 | .03333 | .31320 | .00430 | .00219 | 66.861 | .00199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06683** | **.10651** | **.24776** | **168.57** | **11.927** | **.13232** | **36.520** | **6.4339** | **.00267** |
| Stddev | .00031 | .00027 | .00072 | .29 | .116 | .00081 | .131 | .0472 | .00003 |
| %RSD | .46401 | .25428 | .29141 | .16988 | .97016 | .61182 | .35781 | .73323 | 1.1547 |
| #1 | .06661 | .10632 | .24725 | 168.37 | 12.009 | .13175 | 36.428 | 6.4673 | .00264 |
| #2 | .06705 | .10670 | .24828 | 168.78 | 11.845 | .13289 | 36.613 | 6.4006 | .00269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53005** | **.15227** | **4.7081** | **.17976** | **.56764** | **-.00703** | **.00221** | **2.0268** | **.00680** |
| Stddev | .01120 | .00015 | .0147 | .00030 | .00529 | .00376 | .00105 | .0323 | .00070 |
| %RSD | 2.1121 | .09626 | .31106 | .16467 | .93204 | 53.429 | 47.311 | 1.5958 | 10.315 |
| #1 | .53797 | .15237 | 4.6978 | .17955 | .57138 | -.00438 | .00295 | 2.0039 | .00631 |
| #2 | .52214 | .15216 | 4.7185 | .17997 | .56390 | -.00969 | .00147 | 2.0497 | .00730 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14316** | **.06342** | **.65434** | **-.00473** | **-.04855** | **.15301** | **.49036** | **.03886** |
| Stddev | .00013 | .00311 | .00164 | .00071 | .00696 | .00008 | .00012 | .00072 |
| %RSD | .09296 | 4.8995 | .25077 | 15.001 | 14.339 | .05474 | .02538 | 1.8570 |
| #1 | .14325 | .06122 | .65318 | -.00423 | -.05347 | .15307 | .49027 | .03835 |
| #2 | .14306 | .06562 | .65550 | -.00524 | -.04362 | .15295 | .49045 | .03937 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5919.1** | **73106.** | **4494.6** |
| Stddev | 3.1 | 80. | 9.2 |
| %RSD | .05315 | .10888 | .20461 |
| #1 | 5916.9 | 73162. | 4488.1 |
| #2 | 5921.3 | 73050. | 4501.1 |

Sample Name: 280-42039-A-5-A  Acquired: 5/16/2013 15:02:31  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00194** | **93.628** | **.03106** | **.02358** | **.54746** | **.00329** | **.00276** | **47.669** | **.00281** |
| Stddev | .00056 | .182 | .00080 | .00057 | .00078 | .00008 | .00267 | .069 | .00005 |
| %RSD | 28.595 | .19416 | 2.5870 | 2.4072 | .14266 | 2.3625 | 96.774 | .14449 | 1.6999 |
| #1 | .00155 | 93.500 | .03049 | .02398 | .54691 | .00334 | .00465 | 47.620 | .00278 |
| #2 | .00233 | 93.757 | .03163 | .02317 | .54801 | .00323 | .00087 | 47.717 | .00285 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05635** | **.10299** | **.15838** | **155.03** | **8.4026** | **.12768** | **25.819** | **7.9142** | **.00400** |
| Stddev | .00030 | .00028 | .00008 | .54 | .0758 | .00086 | .050 | .0327 | .00001 |
| %RSD | .52925 | .27183 | .05058 | .34963 | .90250 | .67725 | .19510 | .41336 | .32602 |
| #1 | .05614 | .10280 | .15832 | 155.42 | 8.4562 | .12829 | 25.783 | 7.9373 | .00400 |
| #2 | .05656 | .10319 | .15843 | 154.65 | 8.3490 | .12707 | 25.855 | 7.8911 | .00401 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49501** | **.10444** | **5.7796** | **.12035** | **1.1504** | **-.00260** | **.00554** | **2.3024** | **.00835** |
| Stddev | .00527 | .00040 | .0211 | .00108 | .0016 | .00082 | .00057 | .0176 | .00065 |
| %RSD | 1.0641 | .38687 | .36473 | .89340 | .13602 | 31.672 | 10.276 | .76374 | 7.7611 |
| #1 | .49873 | .10416 | 5.7647 | .11959 | 1.1493 | -.00318 | .00594 | 2.2900 | .00789 |
| #2 | .49128 | .10473 | 5.7945 | .12111 | 1.1515 | -.00201 | .00513 | 2.3148 | .00881 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09501** | **.05178** | **.87064** | **-.00579** | **-.00821** | **.17208** | **.51488** | **.00977** |
| Stddev | .00047 | .00121 | .00608 | .00030 | .00956 | .00067 | .00005 | .00057 |
| %RSD | .49766 | 2.3461 | .69777 | 5.2083 | 116.52 | .38984 | .00955 | 5.8620 |
| #1 | .09535 | .05092 | .86634 | -.00558 | -.00144 | .17255 | .51484 | .01017 |
| #2 | .09468 | .05264 | .87493 | -.00601 | -.01497 | .17160 | .51491 | .00936 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5762.3** | **70151.** | **4369.1** |
| Stddev | 21.5 | 64. | 20.4 |
| %RSD | .37333 | .09140 | .46782 |
| #1 | 5747.1 | 70196. | 4354.7 |
| #2 | 5777.5 | 70106. | 4383.6 |

Sample Name: 280-42039-A-6-A Acquired: 5/16/2013 15:04:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00219** | **81.422** | **.03075** | **.02452** | **.32795** | **.00349** | **.00134** | **18.371** | **.00145** |
| Stddev | .00005 | .199 | .00064 | .00057 | .00048 | .00009 | .00130 | .041 | .00026 |
| %RSD | 2.0699 | .24400 | 2.0930 | 2.3075 | .14574 | 2.4421 | 97.082 | .22120 | 17.717 |
| #1 | .00222 | 81.282 | .03120 | .02412 | .32762 | .00355 | .00226 | 18.343 | .00163 |
| #2 | .00216 | 81.563 | .03029 | .02492 | .32829 | .00343 | .00042 | 18.400 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05143** | **.10224** | **.23256** | **171.27** | **10.094** | **.12836** | **30.506** | **8.3031** | **.00516** |
| Stddev | .00040 | .00024 | .00045 | .69 | .084 | .00065 | .014 | .0205 | .00010 |
| %RSD | .77930 | .23179 | .19304 | .40041 | .83559 | .50693 | .04740 | .24703 | 1.9719 |
| #1 | .05172 | .10240 | .23224 | 171.76 | 10.154 | .12790 | 30.516 | 8.2886 | .00523 |
| #2 | .05115 | .10207 | .23287 | 170.79 | 10.035 | .12882 | 30.496 | 8.3176 | .00509 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40257** | **.12210** | **4.2594** | **.05195** | **.21103** | **-.00680** | **.00208** | **2.1908** | **.00607** |
| Stddev | .01885 | .00048 | .0132 | .00054 | .00201 | .00006 | .00225 | .0339 | .00025 |
| %RSD | 4.6816 | .39075 | .30871 | 1.0310 | .95208 | .86324 | 108.41 | 1.5480 | 4.1897 |
| #1 | .38925 | .12243 | 4.2687 | .05157 | .21245 | -.00676 | .00367 | 2.2148 | .00589 |
| #2 | .41590 | .12176 | 4.2501 | .05233 | .20961 | -.00684 | .00048 | 2.1668 | .00625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05414** | **.06986** | **.44165** | **-.00774** | W **-.09166** | **.13226** | **.44317** | **.03562** |
| Stddev | .00002 | .00005 | .00645 | .00046 | .03083 | .00091 | .00004 | .00160 |
| %RSD | .02873 | .07462 | 1.4608 | 5.9687 | 33.634 | .68634 | .00862 | 4.4934 |
| #1 | .05415 | .06983 | .44621 | -.00806 | -.06986 | .13290 | .44319 | .03675 |
| #2 | .05413 | .06990 | .43709 | -.00741 | -.11346 | .13162 | .44314 | .03448 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6230.8** | **77010.** | **4705.1** |
| Stddev | 8.8 | 50. | 4.1 |
| %RSD | .14186 | .06506 | .08635 |
| #1 | 6224.5 | 76974. | 4708.0 |
| #2 | 6237.0 | 77045. | 4702.2 |

Sample Name: 280-42039-A-7-A Acquired: 5/16/2013 15:07:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00151** | **75.010** | **.03686** | **.03849** | **.48858** | **.00357** | **.00152** | **105.28** | **.00237** |
| Stddev | .00038 | .277 | .00044 | .00125 | .00001 | .00000 | .00019 | .61 | .00005 |
| %RSD | 25.242 | .36959 | 1.2056 | 3.2541 | .00195 | .05863 | 12.812 | .57560 | 2.2938 |
| #1 | .00178 | 74.814 | .03717 | .03761 | .48859 | .00357 | .00138 | 104.86 | .00233 |
| #2 | .00124 | 75.206 | .03654 | .03938 | .48858 | .00358 | .00165 | 105.71 | .00240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05712** | **.11397** | **.23491** | **143.50** | **10.829** | **.12252** | **27.940** | **5.3546** | **.00160** |
| Stddev | .00005 | .00034 | .00044 | .13 | .082 | .00059 | .031 | .0309 | .00013 |
| %RSD | .09511 | .29572 | .18752 | .08763 | .75643 | .47839 | .11204 | .57774 | 8.2150 |
| #1 | .05709 | .11374 | .23522 | 143.41 | 10.771 | .12210 | 27.918 | 5.3765 | .00170 |
| #2 | .05716 | .11421 | .23460 | 143.58 | 10.887 | .12293 | 27.962 | 5.3327 | .00151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62531** | **.12867** | **4.6909** | **.35306** | **1.1323** | **-.00389** | **.00425** | **2.4694** | **.00814** |
| Stddev | .01130 | .00015 | .0150 | .00176 | .0007 | .00160 | .00140 | .0509 | .00029 |
| %RSD | 1.8077 | .11461 | .31900 | .49841 | .06489 | 40.975 | 32.834 | 2.0610 | 3.6155 |
| #1 | .63331 | .12878 | 4.6803 | .35430 | 1.1318 | -.00502 | .00524 | 2.5054 | .00794 |
| #2 | .61732 | .12857 | 4.7015 | .35181 | 1.1328 | -.00277 | .00326 | 2.4334 | .00835 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16852** | **.05486** | **.59479** | **-.00538** | **-.04491** | **.15364** | **.54291** | **.01746** |
| Stddev | .00055 | .00003 | .00474 | .00054 | .03399 | .00012 | .00211 | .00222 |
| %RSD | .32531 | .06202 | .79756 | 9.9844 | 75.688 | .07655 | .38776 | 12.735 |
| #1 | .16814 | .05484 | .59815 | -.00500 | -.06895 | .15356 | .54142 | .01904 |
| #2 | .16891 | .05489 | .59144 | -.00576 | -.02087 | .15372 | .54440 | .01589 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5916.1** | **72926.** | **4578.1** |
| Stddev | 11.6 | 249. | 38.7 |
| %RSD | .19538 | .34196 | .84483 |
| #1 | 5908.0 | 73102. | 4605.5 |
| #2 | 5924.3 | 72750. | 4550.8 |

Sample Name: 280-42039-A-8-A Acquired: 5/16/2013 15:09:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00150** | **115.70** | **.04204** | **.02653** | **.34235** | **.00458** | **.00174** | **86.299** | **.00218** |
| Stddev | .00034 | .78 | .00098 | .00016 | .00245 | .00003 | .00210 | .397 | .00009 |
| %RSD | 22.980 | .67063 | 2.3340 | .58568 | .71572 | .58479 | 120.54 | .45958 | 4.0267 |
| #1 | .00174 | 115.15 | .04274 | .02664 | .34062 | .00456 | .00322 | 86.019 | .00224 |
| #2 | .00125 | 116.25 | .04135 | .02642 | .34409 | .00460 | .00026 | 86.579 | .00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06833** | **.14369** | **.27745** | **214.37** | **10.611** | **.18127** | **41.274** | **8.6704** | **.00762** |
| Stddev | .00005 | .00056 | .00107 | 1.47 | .006 | .00209 | .028 | .0646 | .00009 |
| %RSD | .07798 | .39284 | .38634 | .68525 | .05218 | 1.1534 | .06666 | .74516 | 1.1380 |
| #1 | .06829 | .14329 | .27821 | 213.33 | 10.615 | .17979 | 41.293 | 8.6247 | .00756 |
| #2 | .06836 | .14409 | .27669 | 215.41 | 10.607 | .18275 | 41.254 | 8.7161 | .00768 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58395** | **.17455** | **5.4696** | **.07231** | **.90584** | **-.00582** | **.00636** | **2.3228** | **.00761** |
| Stddev | .01353 | .00048 | .0027 | .00032 | .00711 | .00104 | .00031 | .0141 | .00041 |
| %RSD | 2.3175 | .27746 | .05034 | .44174 | .78471 | 17.850 | 4.9546 | .60509 | 5.3744 |
| #1 | .59352 | .17489 | 5.4677 | .07254 | .91086 | -.00656 | .00658 | 2.3328 | .00732 |
| #2 | .57438 | .17421 | 5.4716 | .07208 | .90081 | -.00509 | .00613 | 2.3129 | .00790 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12344** | **.08356** | **.58028** | **-.00802** | **-.03839** | **.18749** | **.55067** | **.03321** |
| Stddev | .00010 | .00095 | .00349 | .00081 | .00826 | .00011 | .00123 | .00030 |
| %RSD | .08092 | 1.1392 | .60172 | 10.079 | 21.507 | .05954 | .22396 | .88944 |
| #1 | .12351 | .08424 | .58275 | -.00859 | -.04423 | .18757 | .55154 | .03342 |
| #2 | .12337 | .08289 | .57781 | -.00745 | -.03255 | .18741 | .54979 | .03300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5790.2** | **72078.** | **4531.8** |
| Stddev | 6.6 | 176. | 36.1 |
| %RSD | .11313 | .24385 | .79616 |
| #1 | 5785.6 | 72202. | 4557.3 |
| #2 | 5794.8 | 71954. | 4506.2 |

Sample Name: 280-42039-A-9-A  Acquired: 5/16/2013 15:12:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00252** | **95.772** | **.04049** | **.03161** | **.39064** | **.00413** | **-.00031** | **98.716** | **.00117** |
| Stddev | .00012 | .206 | .00002 | .00074 | .00111 | .00001 | .00057 | .152 | .00004 |
| %RSD | 4.8519 | .21507 | .05659 | 2.3318 | .28535 | .35069 | 183.40 | .15358 | 3.3649 |
| #1 | .00244 | 95.626 | .04051 | .03213 | .39143 | .00412 | .00009 | 98.608 | .00114 |
| #2 | .00261 | 95.917 | .04047 | .03109 | .38985 | .00414 | -.00072 | 98.823 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06833** | **.12482** | **.35260** | **192.97** | **11.982** | **.16581** | **41.171** | **8.5559** | **.00619** |
| Stddev | .00042 | .00041 | .00153 | .13 | .005 | .00072 | .052 | .0219 | .00012 |
| %RSD | .61693 | .33227 | .43457 | .06914 | .04231 | .43523 | .12571 | .25621 | 1.8860 |
| #1 | .06803 | .12452 | .35368 | 192.88 | 11.986 | .16530 | 41.207 | 8.5714 | .00627 |
| #2 | .06863 | .12511 | .35151 | 193.06 | 11.979 | .16632 | 41.134 | 8.5404 | .00610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62336** | **.15193** | **5.4660** | **.06472** | **.74817** | **-.00552** | **.00682** | **2.5197** | **.00614** |
| Stddev | .00897 | .00047 | .0145 | .00002 | .00486 | .00010 | .00029 | .0290 | .00066 |
| %RSD | 1.4385 | .30776 | .26511 | .03534 | .64970 | 1.8538 | 4.2217 | 1.1525 | 10.702 |
| #1 | .62970 | .15160 | 5.4558 | .06474 | .74473 | -.00545 | .00661 | 2.4991 | .00568 |
| #2 | .61702 | .15226 | 5.4763 | .06471 | .75160 | -.00559 | .00702 | 2.5402 | .00660 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14019** | **.07503** | **.58195** | **-.00644** | W **-.07525** | **.16461** | **.51348** | **.03624** |
| Stddev | .00021 | .00193 | .00155 | .00016 | .03174 | .00079 | .00075 | .00051 |
| %RSD | .15129 | 2.5789 | .26562 | 2.4816 | 42.174 | .47803 | .14694 | 1.4083 |
| #1 | .14004 | .07366 | .58086 | -.00633 | -.09769 | .16517 | .51402 | .03588 |
| #2 | .14034 | .07640 | .58304 | -.00655 | -.05281 | .16406 | .51295 | .03660 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6401.3** | **79728.** | **5000.9** |
| Stddev | 6.2 | 109. | .7 |
| %RSD | .09732 | .13670 | .01441 |
| #1 | 6405.7 | 79651. | 5000.4 |
| #2 | 6396.9 | 79805. | 5001.4 |

Sample Name: 280-42039-A-10-A  Acquired: 5/16/2013 15:14:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00159** | **93.652** | **.03415** | **.02313** | **.30722** | **.00369** | **-.00064** | **19.621** | **.00144** |
| Stddev | .00038 | .188 | .00132 | .00042 | .00008 | .00000 | .00150 | .037 | .00004 |
| %RSD | 23.801 | .20025 | 3.8717 | 1.8176 | .02554 | .06210 | 234.20 | .18942 | 2.8468 |
| #1 | .00132 | 93.785 | .03321 | .02283 | .30717 | .00369 | .00042 | 19.647 | .00147 |
| #2 | .00185 | 93.520 | .03508 | .02343 | .30728 | .00369 | -.00170 | 19.594 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05136** | **.09769** | **.19284** | **166.40** | **8.6573** | **.13891** | **29.611** | **4.8925** | **.00122** |
| Stddev | .00008 | .00041 | .00033 | .29 | .0173 | .00347 | .003 | .0033 | .00045 |
| %RSD | .14919 | .42150 | .17371 | .17563 | .20022 | 2.4975 | .00894 | .06762 | 37.124 |
| #1 | .05141 | .09798 | .19260 | 166.19 | 8.6451 | .13646 | 29.609 | 4.8949 | .00154 |
| #2 | .05131 | .09740 | .19307 | 166.60 | 8.6696 | .14137 | 29.613 | 4.8902 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51485** | **.12929** | **5.0632** | **.08950** | **.50406** | **-.00638** | **.00148** | **2.1967** | **.00675** |
| Stddev | .01024 | .00095 | .0253 | .00015 | .00526 | .00089 | .00032 | .0130 | .00006 |
| %RSD | 1.9897 | .73316 | .49898 | .17208 | 1.0428 | 13.919 | 21.516 | .59294 | .94001 |
| #1 | .50761 | .12996 | 5.0811 | .08939 | .50777 | -.00575 | .00125 | 2.1874 | .00670 |
| #2 | .52210 | .12862 | 5.0454 | .08961 | .50034 | -.00700 | .00170 | 2.2059 | .00679 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05734** | **.08336** | **.55877** | **-.00467** | W **-.05758** | **.15090** | **.45970** | **.01785** |
| Stddev | .00004 | .00106 | .00088 | .00313 | .01070 | .00022 | .00004 | .00049 |
| %RSD | .06471 | 1.2756 | .15784 | 67.024 | 18.575 | .14712 | .00922 | 2.7310 |
| #1 | .05731 | .08261 | .55815 | -.00688 | -.06514 | .15106 | .45973 | .01820 |
| #2 | .05737 | .08411 | .55939 | -.00246 | -.05002 | .15075 | .45967 | .01751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5825.0** | **71233.** | **4409.3** |
| Stddev | .3 | 1. | 2.9 |
| %RSD | .00579 | .00186 | .06487 |
| #1 | 5825.2 | 71234. | 4407.2 |
| #2 | 5824.7 | 71232. | 4411.3 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 15:17:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **49.486** | **.00239** | **-.00015** | **.00019** | **-.00010** | **.97709** | **.00199** | **-.00067** | **.00206** | **.00004** | **-.00207** | **48.531** |
| Stddev | .00015 | .059 | .00002 | .00042 | .00027 | .00007 | .00170 | .00008 | .00005 | .00003 | .00012 | .00015 | .079 |
| %RSD | 57.269 | .11854 | .63006 | 273.62 | 141.20 | 69.159 | .17431 | 4.1528 | 7.5066 | 1.2659 | 313.39 | 7.3466 | .16193 |
| #1 | .00036 | 49.528 | .00240 | -.00045 | .00038 | -.00005 | .97829 | .00205 | -.00063 | .00208 | .00012 | -.00196 | 48.587 |
| #2 | .00015 | 49.445 | .00238 | .00014 | .00000 | -.00016 | .97588 | .00193 | -.00070 | .00204 | -.00005 | -.00217 | 48.475 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03929** | **-.00223** | **.00745** | **.00062** | **-.00201** | **254.17** | **.00089** | **.00474** | **.00078** | **4.8834** | **.00080** | **.00870** | **.00740** |
| Stddev | .00993 | .00164 | .00203 | .00003 | .00018 | 1.13 | .00005 | .00048 | .00209 | .0024 | .00349 | .00005 | .01001 |
| %RSD | 25.277 | 73.765 | 27.176 | 4.1394 | 8.9725 | .44403 | 5.5857 | 10.046 | 268.39 | .04960 | 437.04 | .56781 | 135.22 |
| #1 | -.03227 | -.00106 | .00602 | .00060 | -.00213 | 254.97 | .00085 | .00440 | -.00070 | 4.8851 | -.00167 | .00874 | .00032 |
| #2 | -.04631 | -.00339 | .00889 | .00064 | -.00188 | 253.37 | .00092 | .00508 | .00225 | 4.8817 | .00327 | .00867 | .01448 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.00045** | **5.1235** | **.00329** | **-.00249** | **9.9468** | **-.00138** | **.00433** | **-.05113** |
| Stddev | .00070 | .00008 | .0111 | .00019 | .00082 | .0590 | .00073 | .00042 | .00312 |
| %RSD | 102.69 | 16.725 | .21657 | 5.7780 | 33.066 | .59292 | 52.998 | 9.6346 | 6.0960 |
| #1 | .00118 | .00040 | 5.1156 | .00315 | -.00191 | 9.9885 | -.00086 | .00404 | -.04893 |
| #2 | .00019 | .00051 | 5.1313 | .00342 | -.00308 | 9.9051 | -.00190 | .00463 | -.05333 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5326.9** | **66163.** | **3992.1** |
| Stddev | 1.5 | 92. | 31.0 |
| %RSD | .02759 | .13870 | .77746 |
| #1 | 5325.9 | 66098. | 3970.2 |
| #2 | 5328.0 | 66228. | 4014.1 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 15:19:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50954** | **.49835** | **.96332** | **.50698** | **.49547** | **.46794** | **.00274** | **4.8667** | **.49645** | **.50650** | **.48335** | **.48053** | **2.3309** |
| Stddev | .00008 | .00011 | .00197 | .00087 | .00232 | .00073 | .00127 | .0116 | .00053 | .00044 | .00056 | .00137 | .0069 |
| %RSD | .01657 | .02191 | .20464 | .17172 | .46876 | .15595 | 46.181 | .23900 | .10612 | .08612 | .11578 | .28422 | .29522 |
| #1 | .50960 | .49827 | .96193 | .50759 | .49383 | .46742 | .00184 | 4.8585 | .49608 | .50681 | .48296 | .48149 | 2.3358 |
| #2 | .50948 | .49842 | .96472 | .50636 | .49711 | .46846 | .00363 | 4.8749 | .49683 | .50619 | .48375 | .47956 | 2.3261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.411** | **1.0122** | **19.439** | **.49511** | **.47482** | **4.7204** | **.49324** | **.99602** | **1.0021** | **-.04806** | **.98991** | **1.0127** | **4.6992** |
| Stddev | .183 | .0030 | .030 | .00065 | .00074 | .0088 | .00051 | .00049 | .0037 | .00311 | .00203 | .0022 | .0054 |
| %RSD | .36276 | .29274 | .15185 | .13199 | .15623 | .18714 | .10350 | .04938 | .36900 | 6.4758 | .20491 | .21513 | .11424 |
| #1 | 50.282 | 1.0101 | 19.460 | .49558 | .47430 | 4.7141 | .49288 | .99567 | .99950 | -.05026 | .99135 | 1.0112 | 4.6954 |
| #2 | 50.540 | 1.0143 | 19.418 | .49465 | .47534 | 4.7266 | .49360 | .99636 | 1.0047 | -.04586 | .98848 | 1.0143 | 4.7030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94978** | **.51140** | **.00326** | **.49226** | **.96904** | **-.01005** | **.47814** | **.48702** | **.47858** |
| Stddev | .00276 | .00175 | .00134 | .00003 | .00145 | .02382 | .00141 | .00024 | .00193 |
| %RSD | .29030 | .34150 | 41.046 | .00547 | .14982 | 237.09 | .29466 | .04857 | .40318 |
| #1 | .94783 | .51017 | .00231 | .49228 | .97007 | .00680 | .47913 | .48685 | .47722 |
| #2 | .95173 | .51264 | .00420 | .49224 | .96802 | -.02689 | .47714 | .48719 | .47995 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5439.9** | **67794.** | **4100.6** |
| Stddev | 14.3 | 313. | 2.1 |
| %RSD | .26316 | .46242 | .05046 |
| #1 | 5429.8 | 67573. | 4102.0 |
| #2 | 5450.0 | 68016. | 4099.1 |

Sample Name: CCB Acquired: 5/16/2013 15:21:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00144** | **-.00022** | **.00298** | **-.00084** | **-.00036** | **.00001** | **-.00037** | **-.00390** | **.00019** | **-.00003** | **.00012** |
| Stddev | .00092 | .00017 | .00034 | .00031 | .00012 | .00001 | .00150 | .00356 | .00007 | .00020 | .00012 |
| %RSD | 63.734 | 76.474 | 11.262 | 36.912 | 32.806 | 86.965 | 403.76 | 91.473 | 34.230 | 650.79 | 102.60 |
| #1 | .00209 | -.00010 | .00322 | -.00062 | -.00027 | .00001 | .00069 | -.00642 | .00015 | -.00017 | .00003 |
| #2 | .00079 | -.00034 | .00274 | -.00106 | -.00044 | .00002 | -.00143 | -.00138 | .00024 | .00011 | .00020 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00142** | **-.00074** | **-.05076** | **-.00230** | **.00229** | **-.00015** | **-.00022** | F **-.10637** | **-.00050** | **-.00084** | **-.00019** |
| Stddev | .00033 | .00297 | .02446 | .00108 | .00255 | .00004 | .00022 | .01215 | .00010 | .00152 | .00124 |
| %RSD | 23.156 | 400.55 | 48.185 | 46.865 | 111.70 | 27.021 | 99.329 | 11.425 | 20.614 | 181.21 | 653.98 |
| #1 | -.00165 | -.00284 | -.03347 | -.00154 | .00048 | -.00018 | -.00007 | -.11496 | -.00043 | -.00191 | -.00106 |
| #2 | -.00119 | .00136 | -.06806 | -.00307 | .00409 | -.00012 | -.00038 | -.09777 | -.00058 | .00024 | .00068 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | | | | | .10000 | | | |
| Low Limit | -.00136 | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04850** | **-.00009** | **-.00026** | **-.00084** | **.00060** | **-.00000** | **.00233** | **-.00017** | **-.00169** | **-.01504** | W **-.00140** |
| Stddev | .00289 | .00195 | .00226 | .01685 | .00087 | .00007 | .00093 | .00018 | .00051 | .03457 | .00068 |
| %RSD | 5.9660 | 2286.3 | 868.63 | 1998.7 | 145.26 | 2337.0 | 39.911 | 108.35 | 30.384 | 229.78 | 48.558 |
| #1 | -.05054 | -.00147 | -.00186 | .01107 | -.00002 | -.00005 | .00299 | -.00029 | -.00133 | -.03949 | -.00092 |
| #2 | -.04645 | .00130 | .00134 | -.01276 | .00121 | .00004 | .00167 | -.00004 | -.00205 | .00940 | -.00189 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00240** | **.00219** |
| Stddev | .00039 | .00075 |
| %RSD | 16.411 | 34.264 |
| #1 | .00267 | .00272 |
| #2 | .00212 | .00166 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5399.3** | **68122.** | **4082.4** |
| Stddev | 12.2 | 532. | 19.3 |
| %RSD | .22633 | .78037 | .47275 |
| #1 | 5390.6 | 68498. | 4096.1 |
| #2 | 5407.9 | 67746. | 4068.8 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 15:24:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01164** | **.10275** | **.01532** | **.10165** | **.00986** | **.00088** | **.10583** | **.19701** | **.00525** | **.01060** | **.00998** |
| Stddev | .00047 | .00031 | .00436 | .00100 | .00002 | .00003 | .00008 | .00011 | .00009 | .00001 | .00018 |
| %RSD | 4.0678 | .30482 | 28.463 | .98756 | .19696 | 3.5879 | .07943 | .05787 | 1.8044 | .13662 | 1.8185 |
| #1 | .01197 | .10297 | .01841 | .10094 | .00987 | .00090 | .10577 | .19709 | .00518 | .01061 | .00985 |
| #2 | .01130 | .10252 | .01224 | .10236 | .00984 | .00085 | .10589 | .19693 | .00531 | .01059 | .01011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01396** | **.09673** | **3.1763** | **.00928** | **.20888** | **.01014** | **.01848** | **.88096** | **.04059** | **2.9656** | W **.01108** |
| Stddev | .00037 | .00355 | .0013 | .00024 | .00108 | .00014 | .00027 | .00519 | .00021 | .0093 | .00282 |
| %RSD | 2.6772 | 3.6701 | .03969 | 2.6172 | .51601 | 1.3619 | 1.4499 | .58908 | .52526 | .31319 | 25.451 |
| #1 | .01370 | .09422 | 3.1754 | .00911 | .20812 | .01005 | .01867 | .88463 | .04044 | 2.9591 | .01307 |
| #2 | .01423 | .09924 | 3.1772 | .00946 | .20964 | .01024 | .01829 | .87729 | .04074 | 2.9722 | .00908 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | | | | .00900 |
| Range | | | | | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04984** | **.00944** | W **.01868** | **.48448** | **.09683** | **.01058** | **.01788** | **.00981** | **.01258** | F **.03101** | **.00866** |
| Stddev | .00359 | .00183 | .00044 | .00562 | .00017 | .00033 | .00072 | .00017 | .00000 | .07406 | .00033 |
| %RSD | 7.2029 | 19.338 | 2.3627 | 1.1600 | .17417 | 3.0806 | 4.0004 | 1.7123 | .02245 | 238.80 | 3.7737 |
| #1 | -.04731 | .00815 | .01837 | .48846 | .09671 | .01035 | .01838 | .00969 | .01258 | -.02135 | .00889 |
| #2 | -.05238 | .01073 | .01899 | .48051 | .09695 | .01082 | .01737 | .00992 | .01259 | .08338 | .00843 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | 20.000% | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02315** | **.01798** |
| Stddev | .00039 | .00140 |
| %RSD | 1.6888 | 7.7608 |
| #1 | .02287 | .01700 |
| #2 | .02342 | .01897 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5489.9** | **68315.** | **4043.1** |
| Stddev | 8.5 | 8. | 8.8 |
| %RSD | .15520 | .01174 | .21741 |
| #1 | 5495.9 | 68320. | 4036.9 |
| #2 | 5483.9 | 68309. | 4049.3 |

Sample Name: MB 280-173338/1-A Acquired: 5/16/2013 15:26:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **.00496** | **.00135** | **-.00055** | **.00127** | **-.00011** | **-.00094** | **.03793** | **.00009** |
| Stddev | .00030 | .00006 | .00143 | .00012 | .00005 | .00009 | .00042 | .00123 | .00006 |
| %RSD | 27.450 | 1.1864 | 105.91 | 21.538 | 4.2862 | 82.186 | 44.997 | 3.2309 | 65.674 |
| #1 | .00130 | .00492 | .00236 | -.00047 | .00123 | -.00017 | -.00123 | .03707 | .00013 |
| #2 | .00088 | .00501 | .00034 | -.00064 | .00131 | -.00004 | -.00064 | .03880 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00012** | **.00014** | **.00816** | **.01440** | **-.00294** | **.00704** | **.00001** | **-.00054** |
| Stddev | .00008 | .00019 | .00024 | .00133 | .02497 | .00075 | .00092 | .00007 | .00009 |
| %RSD | 23.691 | 163.93 | 172.43 | 16.338 | 173.36 | 25.631 | 13.081 | 787.42 | 15.780 |
| #1 | .00029 | .00025 | .00031 | .00911 | -.00325 | -.00241 | .00769 | -.00004 | -.00060 |
| #2 | .00041 | -.00002 | -.00003 | .00722 | .03206 | -.00348 | .00639 | .00006 | -.00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10570** | **-.00008** | F **.08893** | **.00168** | **-.00629** | **-.00128** | **.00406** | **.02164** | **.00646** |
| Stddev | .00994 | .00013 | .00003 | .00036 | .00041 | .00018 | .00012 | .01693 | .00084 |
| %RSD | 9.4088 | 148.34 | .02921 | 21.531 | 6.5687 | 14.453 | 3.0554 | 78.242 | 13.054 |
| #1 | .09867 | .00000 | .08894 | .00193 | -.00599 | -.00115 | .00414 | .00967 | .00705 |
| #2 | .11273 | -.00017 | .08891 | .00142 | -.00658 | -.00141 | .00397 | .03361 | .00586 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00027** | **-.00006** | **-.00145** | **-.00020** | **-.00085** | **.00359** | **.00096** |
| Stddev | .00010 | .00157 | .00061 | .00032 | .00890 | .00035 | .00004 | .00002 |
| %RSD | 60.213 | 587.10 | 1005.5 | 21.828 | 4362.0 | 41.428 | 1.2391 | 2.1101 |
| #1 | .00024 | -.00084 | -.00049 | -.00123 | .00609 | -.00110 | .00356 | .00094 |
| #2 | .00010 | .00138 | .00037 | -.00167 | -.00650 | -.00060 | .00362 | .00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5511.1** | **68835.** | **4106.1** |
| Stddev | 3.3 | 172. | 10.3 |
| %RSD | .05949 | .24938 | .25046 |
| #1 | 5508.8 | 68713. | 4098.8 |
| #2 | 5513.5 | 68956. | 4113.4 |

Sample Name: LCS 280-173338/2-A Acquired: 5/16/2013 15:28:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05385** | **1.9327** | **.97304** | **1.0059** | **1.9816** | **.04737** | **2.0075** | **48.011** | **.10119** |
| Stddev | .00005 | .0039 | .00124 | .0007 | .0076 | .00011 | .0002 | .284 | .00008 |
| %RSD | .10139 | .20014 | .12790 | .07073 | .38571 | .24063 | .01119 | .59198 | .07485 |
| #1 | .05381 | 1.9300 | .97216 | 1.0054 | 1.9870 | .04745 | 2.0076 | 48.212 | .10124 |
| #2 | .05389 | 1.9354 | .97392 | 1.0064 | 1.9762 | .04729 | 2.0073 | 47.810 | .10113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49774** | **.19340** | **.24152** | **.94729** | **51.025** | **1.0084** | **48.340** | **.48919** | **.94712** |
| Stddev | .00086 | .00045 | .00126 | .00045 | .462 | .0069 | .075 | .00008 | .00051 |
| %RSD | .17330 | .23063 | .52033 | .04789 | .90538 | .68689 | .15598 | .01683 | .05336 |
| #1 | .49713 | .19309 | .24241 | .94697 | 51.352 | 1.0133 | 48.393 | .48925 | .94748 |
| #2 | .49835 | .19372 | .24063 | .94761 | 50.698 | 1.0035 | 48.286 | .48913 | .94677 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.492** | **.48313** | **10.374** | **.49521** | **-.01587** | **.50485** | **2.0447** | F **.59883** | **1.8917** |
| Stddev | .006 | .00089 | .015 | .00162 | .00170 | .00118 | .0034 | .00313 | .0042 |
| %RSD | .01078 | .18367 | .14110 | .32720 | 10.693 | .23467 | .16888 | .52281 | .22362 |
| #1 | 52.488 | .48251 | 10.363 | .49407 | -.01707 | .50568 | 2.0423 | .59662 | 1.8888 |
| #2 | 52.496 | .48376 | 10.384 | .49636 | -.01467 | .50401 | 2.0471 | .60105 | 1.8947 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 7.0000 | |
| Low Limit | | | | | | | | 1.0000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0207** | **1.0254** | **.98382** | **1.9405** | **1.9665** | **.47925** | **.48120** | **.46710** |
| Stddev | .0060 | .0036 | .00088 | .0070 | .0210 | .00152 | .00091 | .00613 |
| %RSD | .59246 | .34977 | .08985 | .36273 | 1.0658 | .31683 | .18898 | 1.3124 |
| #1 | 1.0250 | 1.0229 | .98319 | 1.9355 | 1.9814 | .48033 | .48185 | .46277 |
| #2 | 1.0165 | 1.0280 | .98444 | 1.9455 | 1.9517 | .47818 | .48056 | .47144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5358.9** | **67061.** | **4103.8** |
| Stddev | 3.0 | 52. | 24.8 |
| %RSD | .05650 | .07695 | .60376 |
| #1 | 5361.1 | 67025. | 4086.3 |
| #2 | 5356.8 | 67098. | 4121.4 |

Sample Name: 280-41943-A-10-A  Acquired: 5/16/2013 15:31:13  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **94.651** | **.02612** | **.01950** | **.55559** | **.00424** | **.00673** | **25.103** | **.00081** |
| Stddev | .00009 | .737 | .00202 | .00097 | .00311 | .00012 | .00144 | .157 | .00002 |
| %RSD | 10.023 | .77896 | 7.7220 | 4.9816 | .56033 | 2.9356 | 21.390 | .62634 | 2.3472 |
| #1 | .00081 | 94.129 | .02470 | .02018 | .55339 | .00415 | .00572 | 24.992 | .00083 |
| #2 | .00093 | 95.172 | .02755 | .01881 | .55779 | .00433 | .00775 | 25.215 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03722** | **.17722** | **.09235** | **110.11** | **3.9632** | **.09142** | **20.046** | **.58705** | **.00032** |
| Stddev | .00036 | .00073 | .00051 | .00 | .0265 | .00116 | .028 | .00047 | .00013 |
| %RSD | .96372 | .41257 | .55311 | .00309 | .66973 | 1.2639 | .14036 | .08041 | 39.909 |
| #1 | .03748 | .17774 | .09271 | 110.12 | 3.9819 | .09061 | 20.066 | .58739 | .00041 |
| #2 | .03697 | .17670 | .09198 | 110.11 | 3.9444 | .09224 | 20.026 | .58672 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.71056** | **.11010** | **3.7124** | **.05968** | **.21268** | **-.00158** | **.00036** | **2.2252** | **.00814** |
| Stddev | .00922 | .00046 | .0203 | .00200 | .00015 | .00155 | .00158 | .0304 | .00056 |
| %RSD | 1.2970 | .41486 | .54712 | 3.3565 | .06845 | 97.982 | 439.07 | 1.3662 | 6.8410 |
| #1 | .71708 | .11042 | 3.7267 | .06110 | .21257 | -.00049 | .00148 | 2.2037 | .00775 |
| #2 | .70404 | .10978 | 3.6980 | .05827 | .21278 | -.00267 | -.00076 | 2.2467 | .00853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15182** | **.07748** | **2.2916** | **-.00434** | F **-.14444** | **.27937** | **.24775** | **.16298** |
| Stddev | .00113 | .00175 | .0011 | .00113 | .00222 | .00016 | .00023 | .00265 |
| %RSD | .74451 | 2.2537 | .04705 | 26.028 | 1.5377 | .05648 | .09368 | 1.6269 |
| #1 | .15102 | .07625 | 2.2908 | -.00513 | -.14601 | .27948 | .24791 | .16111 |
| #2 | .15262 | .07872 | 2.2923 | -.00354 | -.14287 | .27926 | .24758 | .16486 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5986.0** | **73569.** | **4553.0** |
| Stddev | 2.2 | 100. | 30.3 |
| %RSD | .03730 | .13647 | .66504 |
| #1 | 5987.6 | 73498. | 4574.4 |
| #2 | 5984.4 | 73640. | 4531.6 |

Sample Name: sd 41943-A-10-A@5 Acquired: 5/16/2013 15:33:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **20.485** | **.00727** | **.00363** | **.11921** | **.00093** | **.00047** | **5.4385** | **.00006** |
| Stddev | .00004 | .105 | .00177 | .00030 | .00008 | .00001 | .00307 | .0077 | .00027 |
| %RSD | 5.8312 | .51348 | 24.422 | 8.1895 | .06498 | 1.0979 | 652.15 | .14210 | 443.21 |
| #1 | .00070 | 20.411 | .00601 | .00384 | .11915 | .00094 | .00264 | 5.4439 | -.00013 |
| #2 | .00076 | 20.559 | .00852 | .00342 | .11926 | .00093 | -.00170 | 5.4330 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00807** | **.03775** | **.01858** | **22.580** | **.83054** | **.01908** | **4.3001** | **.12575** | **-.00017** |
| Stddev | .00014 | .00035 | .00018 | .079 | .04730 | .00127 | .0069 | .00035 | .00023 |
| %RSD | 1.7121 | .92704 | .96069 | .34844 | 5.6955 | 6.6524 | .16071 | .28202 | 131.94 |
| #1 | .00817 | .03800 | .01871 | 22.524 | .79709 | .01998 | 4.3050 | .12600 | -.00034 |
| #2 | .00797 | .03750 | .01846 | 22.636 | .86399 | .01819 | 4.2952 | .12550 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04516** | **.02376** | **.78707** | **.01469** | **.00550** | **-.00405** | **-.00189** | **.47650** | **.00123** |
| Stddev | .00579 | .00015 | .00180 | .00041 | .00150 | .00245 | .00063 | .00032 | .00117 |
| %RSD | 12.819 | .61952 | .22911 | 2.7792 | 27.340 | 60.446 | 33.316 | .06803 | 94.879 |
| #1 | .04926 | .02386 | .78834 | .01498 | .00656 | -.00579 | -.00234 | .47673 | .00041 |
| #2 | .04107 | .02365 | .78579 | .01440 | .00444 | -.00232 | -.00145 | .47627 | .00206 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03273** | **.01836** | **.48176** | **-.00148** | **-.02983** | **.05792** | **.05667** | **.03772** |
| Stddev | .00002 | .00032 | .00113 | .00045 | .02163 | .00059 | .00131 | .00186 |
| %RSD | .05074 | 1.7655 | .23537 | 30.390 | 72.527 | 1.0129 | 2.3162 | 4.9351 |
| #1 | .03272 | .01813 | .48256 | -.00180 | -.04512 | .05750 | .05760 | .03640 |
| #2 | .03274 | .01859 | .48095 | -.00117 | -.01453 | .05833 | .05574 | .03903 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5601.7** | **69187.** | **4193.1** |
| Stddev | 11.4 | 8. | 20.1 |
| %RSD | .20316 | .01087 | .47902 |
| #1 | 5593.6 | 69193. | 4178.9 |
| #2 | 5609.7 | 69182. | 4207.3 |

Sample Name: 280-41943-A-10-B MS  Acquired: 5/16/2013 15:35:57  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04923** | **152.34** | **.88461** | **.92749** | **2.5152** | **.04584** | **1.8130** | **70.298** | **.09131** |
| Stddev | .00054 | .76 | .00211 | .00094 | .0113 | .00010 | .0012 | .449 | .00032 |
| %RSD | 1.0956 | .50106 | .23828 | .10084 | .44744 | .22272 | .06376 | .63837 | .35065 |
| #1 | .04885 | 152.88 | .88312 | .92683 | 2.5231 | .04591 | 1.8122 | 70.616 | .09108 |
| #2 | .04961 | 151.80 | .88610 | .92816 | 2.5072 | .04577 | 1.8138 | 69.981 | .09154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48475** | **.38037** | **.31411** | **119.34** | **56.118** | **1.0296** | **69.157** | **1.1336** | **.82007** |
| Stddev | .00107 | .00039 | .00009 | .41 | .429 | .0066 | .053 | .0001 | .00062 |
| %RSD | .21979 | .10299 | .02956 | .34444 | .76425 | .63717 | .07668 | .00881 | .07500 |
| #1 | .48400 | .38010 | .31404 | 119.63 | 56.421 | 1.0342 | 69.120 | 1.1337 | .81964 |
| #2 | .48551 | .38065 | .31417 | 119.05 | 55.814 | 1.0250 | 69.195 | 1.1336 | .82051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.103** | **.54511** | **12.671** | **.49877** | **.23856** | **.24152** | **1.8018** | **3.5331** | **1.6427** |
| Stddev | .351 | .00091 | .002 | .00075 | .00076 | .00007 | .0120 | .0544 | .0077 |
| %RSD | .72919 | .16622 | .01862 | .15030 | .31747 | .02747 | .66558 | 1.5383 | .46864 |
| #1 | 48.351 | .54447 | 12.669 | .49824 | .23803 | .24157 | 1.7934 | 3.5716 | 1.6373 |
| #2 | 47.855 | .54575 | 12.673 | .49930 | .23910 | .24147 | 1.8103 | 3.4947 | 1.6482 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1185** | **1.0013** | **5.1323** | **1.6764** | **1.7628** | **.80359** | **.70419** | **.65731** |
| Stddev | .0068 | .0035 | .0004 | .0089 | .0527 | .00050 | .00267 | .00334 |
| %RSD | .60727 | .34565 | .00830 | .53386 | 2.9912 | .06160 | .37927 | .50800 |
| #1 | 1.1233 | 1.0038 | 5.1326 | 1.6701 | 1.8001 | .80394 | .70608 | .65495 |
| #2 | 1.1137 | .99888 | 5.1320 | 1.6827 | 1.7255 | .80324 | .70230 | .65967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5746.1** | **70546.** | **4429.5** |
| Stddev | 1.5 | 226. | 33.3 |
| %RSD | .02683 | .32005 | .75138 |
| #1 | 5745.0 | 70706. | 4405.9 |
| #2 | 5747.2 | 70387. | 4453.0 |

Sample Name: 280-41943-A-10-C MSD  Acquired: 5/16/2013 15:38:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04939** | **155.26** | **.88862** | **.92133** | **2.5568** | **.04605** | **1.8098** | **81.699** | **.09149** |
| Stddev | .00018 | 1.26 | .00192 | .00112 | .0218 | .00021 | .0011 | .510 | .00004 |
| %RSD | .37180 | .80889 | .21593 | .12179 | .85282 | .44820 | .06065 | .62477 | .04315 |
| #1 | .04926 | 154.37 | .88997 | .92212 | 2.5413 | .04591 | 1.8106 | 81.338 | .09151 |
| #2 | .04952 | 156.15 | .88726 | .92053 | 2.5722 | .04620 | 1.8090 | 82.060 | .09146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48598** | **.40906** | **.32157** | **129.77** | **56.168** | **1.0255** | **70.285** | **1.2970** | **.81386** |
| Stddev | .00016 | .00051 | .00184 | 1.05 | .300 | .0049 | .227 | .0029 | .00023 |
| %RSD | .03345 | .12425 | .57328 | .80623 | .53487 | .47784 | .32255 | .22009 | .02792 |
| #1 | .48586 | .40942 | .32288 | 129.03 | 55.956 | 1.0221 | 70.446 | 1.2990 | .81402 |
| #2 | .48609 | .40870 | .32027 | 130.51 | 56.380 | 1.0290 | 70.125 | 1.2950 | .81370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.994** | **.55596** | **12.864** | **.49988** | **.24398** | **.23386** | **1.7985** | **3.8197** | **1.6336** |
| Stddev | .200 | .00062 | .018 | .00065 | .00322 | .00088 | .0089 | .0400 | .0071 |
| %RSD | .41670 | .11176 | .14116 | .12984 | 1.3191 | .37550 | .49284 | 1.0472 | .43339 |
| #1 | 47.852 | .55640 | 12.877 | .49942 | .24626 | .23324 | 1.8048 | 3.8480 | 1.6386 |
| #2 | 48.135 | .55552 | 12.851 | .50034 | .24170 | .23448 | 1.7923 | 3.7915 | 1.6286 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1307** | **1.0062** | **5.0720** | **1.6608** | **1.7131** | **.83146** | **.72300** | **.66483** |
| Stddev | .0079 | .0023 | .0012 | .0040 | .0152 | .00118 | .00402 | .00298 |
| %RSD | .69679 | .22931 | .02258 | .24124 | .88776 | .14139 | .55606 | .44774 |
| #1 | 1.1251 | 1.0078 | 5.0728 | 1.6636 | 1.7239 | .83229 | .72584 | .66693 |
| #2 | 1.1363 | 1.0046 | 5.0712 | 1.6580 | 1.7024 | .83063 | .72016 | .66272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5829.7** | **71629.** | **4498.5** |
| Stddev | 5.0 | 484. | 22.2 |
| %RSD | .08632 | .67508 | .49436 |
| #1 | 5826.2 | 71287. | 4514.2 |
| #2 | 5833.3 | 71971. | 4482.8 |

Sample Name: pds 280-41943-A-10-A  Acquired: 5/16/2013 15:40:21  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04866** | **93.380** | **.20050** | **.11457** | **.63200** | **.04638** | **.00675** | **41.950** | **.04731** |
| Stddev | .00030 | .219 | .00259 | .00002 | .00007 | .00021 | .00211 | .052 | .00009 |
| %RSD | .60782 | .23463 | 1.2903 | .02180 | .01104 | .45617 | 31.201 | .12508 | .18083 |
| #1 | .04887 | 93.535 | .20232 | .11455 | .63205 | .04623 | .00824 | 41.987 | .04725 |
| #2 | .04845 | 93.226 | .19867 | .11458 | .63195 | .04653 | .00526 | 41.913 | .04737 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08156** | **.21611** | **.13466** | **108.13** | **22.709** | **.18192** | **37.377** | **.61428** | **.04370** |
| Stddev | .00005 | .00062 | .00031 | .38 | .016 | .00032 | .031 | .00031 | .00047 |
| %RSD | .06501 | .28508 | .23181 | .34787 | .06839 | .17573 | .08243 | .05003 | 1.0673 |
| #1 | .08159 | .21567 | .13489 | 107.86 | 22.698 | .18170 | 37.399 | .61450 | .04337 |
| #2 | .08152 | .21654 | .13444 | 108.40 | 22.720 | .18215 | 37.356 | .61406 | .04403 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.844** | **.15115** | **5.5120** | **.14802** | **.21159** | **.09113** | **.18880** | **6.4855** | **.09374** |
| Stddev | .464 | .00031 | .0128 | .00040 | .00069 | .00005 | .00137 | .0120 | .00014 |
| %RSD | 2.2254 | .20344 | .23211 | .27249 | .32393 | .05827 | .72600 | .18438 | .14468 |
| #1 | 21.172 | .15094 | 5.5030 | .14830 | .21111 | .09110 | .18977 | 6.4939 | .09384 |
| #2 | 20.516 | .15137 | 5.5211 | .14773 | .21208 | .09117 | .18783 | 6.4770 | .09365 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19569** | **.26654** | **2.2824** | **.17388** | **.33880** | **.31536** | **.42049** | **.20227** |
| Stddev | .00020 | .00047 | .0007 | .00112 | .00400 | .00028 | .00010 | .00162 |
| %RSD | .10282 | .17779 | .03258 | .64323 | 1.1812 | .08772 | .02304 | .80330 |
| #1 | .19555 | .26688 | 2.2829 | .17309 | .33597 | .31516 | .42042 | .20112 |
| #2 | .19584 | .26621 | 2.2819 | .17467 | .34163 | .31556 | .42056 | .20342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5846.7** | **71998.** | **4434.7** |
| Stddev | 6.9 | 209. | 10.7 |
| %RSD | .11845 | .28971 | .24078 |
| #1 | 5841.8 | 71851. | 4427.1 |
| #2 | 5851.6 | 72146. | 4442.2 |

Sample Name: 280-41943-A-11-A  Acquired: 5/16/2013 15:42:38  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00204** | **103.55** | **.03341** | **.01971** | **2.2054** | **.00385** | **.00935** | **48.231** | **.00144** |
| Stddev | .00059 | .16 | .00080 | .00040 | .0053 | .00012 | .00245 | .129 | .00016 |
| %RSD | 28.762 | .15341 | 2.3938 | 2.0427 | .24118 | 3.1485 | 26.183 | .26720 | 11.122 |
| #1 | .00163 | 103.43 | .03285 | .01943 | 2.2016 | .00377 | .01108 | 48.140 | .00132 |
| #2 | .00246 | 103.66 | .03398 | .01999 | 2.2092 | .00394 | .00762 | 48.322 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05838** | **.17254** | **.09246** | **123.39** | **5.1433** | **.10316** | **19.944** | **7.6915** | **.00252** |
| Stddev | .00044 | .00053 | .00019 | .04 | .0532 | .00025 | .007 | .0216 | .00014 |
| %RSD | .75569 | .30821 | .20546 | .03430 | 1.0343 | .23762 | .03744 | .28025 | 5.5776 |
| #1 | .05807 | .17217 | .09233 | 123.42 | 5.1809 | .10299 | 19.950 | 7.7068 | .00242 |
| #2 | .05870 | .17292 | .09260 | 123.36 | 5.1056 | .10334 | 19.939 | 7.6763 | .00262 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6338** | **.22601** | **4.2183** | **.05738** | **.82910** | **-.00457** | **.00204** | **2.1318** | **.00746** |
| Stddev | .0373 | .00127 | .0210 | .00144 | .00077 | .00219 | .00029 | .0245 | .00060 |
| %RSD | 2.2829 | .56175 | .49694 | 2.5045 | .09312 | 47.821 | 14.293 | 1.1510 | 7.9848 |
| #1 | 1.6602 | .22511 | 4.2035 | .05636 | .82856 | -.00303 | .00183 | 2.1144 | .00788 |
| #2 | 1.6075 | .22691 | 4.2331 | .05839 | .82965 | -.00612 | .00225 | 2.1491 | .00704 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24390** | **.07924** | **2.7504** | **-.00790** | F **-.10904** | **.28530** | **.28941** | **.16866** |
| Stddev | .00140 | .00154 | .0049 | .00007 | .02259 | .00068 | .00069 | .00128 |
| %RSD | .57448 | 1.9441 | .17760 | .82684 | 20.717 | .23766 | .23750 | .76152 |
| #1 | .24291 | .07815 | 2.7539 | -.00785 | -.12501 | .28482 | .28892 | .16957 |
| #2 | .24489 | .08033 | 2.7469 | -.00794 | -.09307 | .28578 | .28989 | .16776 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5904.2** | **72510.** | **4524.9** |
| Stddev | 1.6 | 211. | 12.2 |
| %RSD | .02720 | .29050 | .26927 |
| #1 | 5905.4 | 72361. | 4516.3 |
| #2 | 5903.1 | 72659. | 4533.5 |

Sample Name: 280-41943-A-17-A  Acquired: 5/16/2013 15:45:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173338 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **110.72** | **.03967** | **.02789** | **1.4927** | **.00484** | **.00915** | **26.383** | **.00221** |
| Stddev | .00003 | .07 | .00018 | .00014 | .0023 | .00004 | .00061 | .025 | .00013 |
| %RSD | 2.0121 | .06261 | .45104 | .50700 | .15520 | .86248 | 6.6802 | .09555 | 5.9631 |
| #1 | .00139 | 110.77 | .03979 | .02799 | 1.4943 | .00481 | .00872 | 26.401 | .00211 |
| #2 | .00135 | 110.67 | .03954 | .02779 | 1.4910 | .00487 | .00958 | 26.365 | .00230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07752** | **.16476** | **.12559** | **138.71** | **8.6408** | **.07768** | **23.328** | **2.8853** | **.00234** |
| Stddev | .00034 | .00060 | .00097 | .29 | .0403 | .00069 | .026 | .0042 | .00004 |
| %RSD | .43331 | .36376 | .77333 | .21201 | .46588 | .88726 | .11002 | .14687 | 1.6685 |
| #1 | .07776 | .16518 | .12490 | 138.92 | 8.6692 | .07817 | 23.310 | 2.8823 | .00231 |
| #2 | .07728 | .16433 | .12628 | 138.50 | 8.6123 | .07720 | 23.346 | 2.8883 | .00237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7357** | **.16388** | **4.0150** | **.09881** | **.45492** | **-.00140** | **.00200** | **2.3711** | **.00820** |
| Stddev | .0151 | .00111 | .0110 | .00046 | .00321 | .00160 | .00383 | .0253 | .00126 |
| %RSD | .87066 | .67504 | .27357 | .46692 | .70624 | 114.06 | 191.89 | 1.0662 | 15.394 |
| #1 | 1.7464 | .16467 | 4.0228 | .09914 | .45265 | -.00027 | -.00071 | 2.3889 | .00909 |
| #2 | 1.7250 | .16310 | 4.0072 | .09849 | .45719 | -.00254 | .00470 | 2.3532 | .00731 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21074** | **.09283** | **2.2782** | **-.00429** | F **-.13890** | **.28503** | **.42296** | **.13686** |
| Stddev | .00041 | .00057 | .0059 | .00104 | .01242 | .00145 | .00053 | .00225 |
| %RSD | .19232 | .61773 | .25967 | 24.203 | 8.9438 | .50767 | .12566 | 1.6425 |
| #1 | .21045 | .09324 | 2.2740 | -.00355 | -.14769 | .28401 | .42334 | .13527 |
| #2 | .21102 | .09243 | 2.2824 | -.00502 | -.13012 | .28606 | .42259 | .13845 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6052.5** | **73566.** | **4594.4** |
| Stddev | 27.1 | 60. | 14.0 |
| %RSD | .44846 | .08103 | .30557 |
| #1 | 6033.3 | 73608. | 4584.4 |
| #2 | 6071.7 | 73524. | 4604.3 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 15:47:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **49.508** | **.00075** | **.00047** | **.00016** | **-.00006** | **.97724** | **.00030** | **-.00058** | **.00200** | **.00015** | **-.00254** | **47.952** |
| Stddev | .00011 | .356 | .00236 | .00025 | .00042 | .00005 | .00525 | .00019 | .00016 | .00000 | .00012 | .00048 | .077 |
| %RSD | 54.775 | .71920 | 315.18 | 52.050 | 265.61 | 79.141 | .53740 | 63.613 | 27.817 | .22013 | 79.805 | 18.990 | .16129 |
| #1 | .00012 | 49.256 | .00241 | .00030 | .00045 | -.00003 | .98095 | .00043 | -.00070 | .00200 | .00006 | -.00220 | 48.006 |
| #2 | .00027 | 49.760 | -.00092 | .00065 | -.00014 | -.00010 | .97353 | .00016 | -.00047 | .00201 | .00023 | -.00289 | 47.897 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06136** | **-.00278** | **.01117** | **-.00007** | **-.00187** | **254.92** | **.00108** | **.00425** | **.00291** | **4.8882** | **-.00169** | **.00478** | **.00706** |
| Stddev | .04098 | .00156 | .00328 | .00011 | .00019 | 1.68 | .00004 | .00091 | .00091 | .0107 | .00111 | .00124 | .00592 |
| %RSD | 66.789 | 56.220 | 29.333 | 164.90 | 10.121 | .65987 | 3.6516 | 21.379 | 31.099 | .21983 | 65.671 | 25.966 | 83.860 |
| #1 | -.03238 | -.00388 | .00885 | -.00014 | -.00174 | 253.73 | .00110 | .00360 | .00355 | 4.8958 | -.00247 | .00565 | .00287 |
| #2 | -.09034 | -.00167 | .01348 | .00001 | -.00201 | 256.11 | .00105 | .00489 | .00227 | 4.8806 | -.00090 | .00390 | .01125 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.00056** | **5.1236** | **.00347** | **-.00464** | **9.9704** | **-.00121** | **.00294** | **-.05505** |
| Stddev | .00041 | .00001 | .0073 | .00039 | .00132 | .0312 | .00049 | .00001 | .00351 |
| %RSD | 40.344 | 1.1925 | .14187 | 11.226 | 28.439 | .31266 | 40.506 | .20380 | 6.3732 |
| #1 | .00132 | .00055 | 5.1287 | .00320 | -.00371 | 9.9484 | -.00087 | .00295 | -.05753 |
| #2 | .00073 | .00056 | 5.1184 | .00375 | -.00557 | 9.9925 | -.00156 | .00294 | -.05257 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5262.4** | **65497.** | **3984.4** |
| Stddev | 7.4 | 355. | 6.0 |
| %RSD | .14049 | .54253 | .15066 |
| #1 | 5267.7 | 65245. | 3988.7 |
| #2 | 5257.2 | 65748. | 3980.2 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 15:49:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51410** | **.50042** | **.97223** | **.50904** | **.49847** | **.47129** | **.00201** | **4.9248** | **.49773** | **.50904** | **.48579** | **.48132** | **2.3483** |
| Stddev | .00326 | .00022 | .00036 | .00081 | .00132 | .00013 | .00177 | .0203 | .00018 | .00178 | .00033 | .00181 | .0047 |
| %RSD | .63408 | .04475 | .03751 | .15932 | .26430 | .02802 | 88.155 | .41242 | .03553 | .34998 | .06817 | .37651 | .19864 |
| #1 | .51179 | .50058 | .97249 | .50962 | .49754 | .47119 | .00076 | 4.9392 | .49785 | .50778 | .48602 | .48004 | 2.3450 |
| #2 | .51640 | .50026 | .97197 | .50847 | .49940 | .47138 | .00327 | 4.9104 | .49760 | .51030 | .48556 | .48260 | 2.3516 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.414** | **1.0287** | **19.617** | **.49997** | **.47551** | **4.7604** | **.49483** | **1.0022** | **1.0055** | **-.04886** | **.99682** | **1.0137** | **4.7287** |
| Stddev | .092 | .0030 | .072 | .00192 | .00176 | .0011 | .00137 | .0004 | .0027 | .00301 | .00028 | .0028 | .0226 |
| %RSD | .17952 | .29262 | .36525 | .38403 | .36915 | .02300 | .27763 | .04378 | .26772 | 6.1667 | .02817 | .27846 | .47821 |
| #1 | 51.349 | 1.0265 | 19.566 | .49862 | .47427 | 4.7612 | .49386 | 1.0019 | 1.0036 | -.05099 | .99662 | 1.0117 | 4.7127 |
| #2 | 51.479 | 1.0308 | 19.668 | .50133 | .47675 | 4.7597 | .49580 | 1.0025 | 1.0074 | -.04673 | .99702 | 1.0157 | 4.7447 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95127** | **.51787** | **.00378** | **.49576** | **.96862** | **-.00314** | **.48279** | **.49567** | **.48114** |
| Stddev | .00547 | .00137 | .00131 | .00164 | .00254 | .00968 | .00251 | .00002 | .00140 |
| %RSD | .57550 | .26426 | 34.701 | .33127 | .26237 | 307.84 | .52068 | .00365 | .29045 |
| #1 | .94739 | .51691 | .00470 | .49460 | .96683 | -.00999 | .48101 | .49566 | .48016 |
| #2 | .95514 | .51884 | .00285 | .49692 | .97042 | .00370 | .48457 | .49568 | .48213 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5274.9** | **65514.** | **3943.3** |
| Stddev | 4.4 | 233. | 6.5 |
| %RSD | .08411 | .35594 | .16544 |
| #1 | 5271.7 | 65679. | 3947.9 |
| #2 | 5278.0 | 65349. | 3938.7 |

Sample Name: CCB Acquired: 5/16/2013 15:52:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **-.00005** | **.00366** | **.00003** | **.00008** | **.00003** | **-.00112** | **-.00812** | **.00021** | **.00017** | **.00019** |
| Stddev | .00015 | .00006 | .00166 | .00091 | .00011 | .00017 | .00035 | .01064 | .00010 | .00010 | .00009 |
| %RSD | 21.180 | 120.62 | 45.279 | 2849.3 | 145.59 | 544.01 | 31.224 | 131.03 | 45.843 | 57.655 | 50.191 |
| #1 | .00059 | -.00010 | .00484 | -.00061 | -.00000 | -.00009 | -.00088 | -.01564 | .00027 | .00024 | .00012 |
| #2 | .00080 | -.00001 | .00249 | .00068 | .00016 | .00015 | -.00137 | -.00060 | .00014 | .00010 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00096** | **-.00494** | **.00633** | **-.00029** | **.00191** | **-.00012** | **.00000** | F **-.13831** | **-.00027** | **-.00010** | **.00196** |
| Stddev | .00027 | .00270 | .08291 | .00116 | .00179 | .00002 | .00030 | .01703 | .00026 | .00203 | .00138 |
| %RSD | 27.697 | 54.626 | 1309.8 | 405.77 | 93.524 | 19.973 | 54500. | 12.313 | 96.443 | 1951.6 | 70.222 |
| #1 | -.00077 | -.00685 | .06495 | .00053 | .00318 | -.00011 | .00021 | -.15035 | -.00009 | .00133 | .00099 |
| #2 | -.00115 | -.00303 | -.05229 | -.00110 | .00065 | -.00014 | -.00021 | -.12627 | -.00046 | -.00154 | .00294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05126** | **-.00185** | **.00355** | **.00566** | **-.00005** | **.00004** | **-.00001** | **-.00031** | **-.00091** | **.02061** | **-.00049** |
| Stddev | .00354 | .00099 | .00368 | .00390 | .00039 | .00025 | .00018 | .00046 | .00111 | .00645 | .00066 |
| %RSD | 6.9056 | 53.457 | 103.69 | 68.818 | 837.11 | 702.34 | 1489.5 | 147.56 | 121.36 | 31.294 | 134.01 |
| #1 | -.04876 | -.00255 | .00095 | .00291 | .00023 | -.00014 | .00011 | .00001 | -.00013 | .02517 | -.00003 |
| #2 | -.05376 | -.00115 | .00615 | .00842 | -.00032 | .00021 | -.00014 | -.00063 | -.00170 | .01605 | -.00095 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00174** | **.00091** |
| Stddev | .00004 | .00286 |
| %RSD | 2.1966 | 314.54 |
| #1 | .00177 | .00294 |
| #2 | .00171 | -.00111 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5205.9** | **64821.** | **3921.1** |
| Stddev | 5.1 | 50. | 25.8 |
| %RSD | .09854 | .07658 | .65676 |
| #1 | 5209.5 | 64786. | 3939.3 |
| #2 | 5202.3 | 64856. | 3902.9 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 15:54:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01083** | **.10294** | **.01596** | **.10126** | **.01002** | **.00085** | **.10193** | **.19548** | **.00540** | **.01066** | **.01019** |
| Stddev | .00009 | .00050 | .00071 | .00070 | .00051 | .00006 | .00066 | .00469 | .00010 | .00004 | .00008 |
| %RSD | .82485 | .48966 | 4.4490 | .69203 | 5.0523 | 6.4628 | .64746 | 2.3977 | 1.7653 | .42101 | .75721 |
| #1 | .01077 | .10259 | .01646 | .10076 | .00966 | .00089 | .10240 | .19217 | .00547 | .01063 | .01024 |
| #2 | .01090 | .10330 | .01546 | .10175 | .01037 | .00081 | .10147 | .19880 | .00533 | .01069 | .01013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01383** | **.09477** | **3.1492** | W **.00711** | **.20423** | **.01023** | **.01853** | **.87920** | **.04082** | **2.9566** | **.01055** |
| Stddev | .00043 | .00182 | .0311 | .00112 | .00208 | .00002 | .00004 | .00233 | .00055 | .0008 | .00058 |
| %RSD | 3.0869 | 1.9197 | .98840 | 15.797 | 1.0178 | .15331 | .20319 | .26558 | 1.3430 | .02731 | 5.4741 |
| #1 | .01413 | .09348 | 3.1712 | .00632 | .20276 | .01024 | .01851 | .88085 | .04043 | 2.9560 | .01095 |
| #2 | .01353 | .09605 | 3.1272 | .00791 | .20570 | .01022 | .01856 | .87755 | .04120 | 2.9572 | .01014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05162** | **.00948** | **.01564** | **.46796** | **.09621** | **.01051** | **.01767** | **.00964** | **.01287** | F **.04072** | **.00869** |
| Stddev | .00306 | .00150 | .00467 | .00412 | .00024 | .00030 | .00292 | .00014 | .00004 | .04754 | .00037 |
| %RSD | 5.9286 | 15.854 | 29.881 | .88140 | .24890 | 2.8601 | 16.507 | 1.4843 | .32026 | 116.74 | 4.2029 |
| #1 | -.05378 | .01054 | .01895 | .46505 | .09604 | .01072 | .01973 | .00954 | .01290 | .00711 | .00895 |
| #2 | -.04945 | .00841 | .01234 | .47088 | .09638 | .01029 | .01561 | .00974 | .01285 | .07434 | .00843 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02343** | **.01486** |
| Stddev | .00008 | .00350 |
| %RSD | .33301 | 23.572 |
| #1 | .02349 | .01734 |
| #2 | .02337 | .01238 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5275.5** | **65317.** | **3872.3** |
| Stddev | 4.3 | 246. | 29.9 |
| %RSD | .08212 | .37624 | .77288 |
| #1 | 5278.6 | 65491. | 3851.1 |
| #2 | 5272.5 | 65143. | 3893.5 |

Sample Name: MB 280-173462/1-A Acquired: 5/16/2013 15:56:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00922** | **.00210** | **.00234** | **.00001** | **.00003** | **-.00188** | **.01476** | **.00000** |
| Stddev | .00079 | .00046 | .00096 | .00004 | .00023 | .00010 | .00007 | .00281 | .00006 |
| %RSD | 96.343 | 4.9665 | 45.457 | 1.8062 | 2442.9 | 299.28 | 3.7395 | 19.069 | 3209.4 |
| #1 | .00137 | .00890 | .00143 | .00231 | -.00015 | .00010 | -.00183 | .01675 | .00005 |
| #2 | .00026 | .00954 | .00278 | .00237 | .00017 | -.00004 | -.00193 | .01277 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **-.00019** | **-.00129** | **-.00119** | **-.06390** | **-.00133** | **.00436** | **-.00001** | **-.00038** |
| Stddev | .00011 | .00018 | .00055 | .00023 | .00498 | .00018 | .00126 | .00001 | .00008 |
| %RSD | 30.214 | 96.994 | 42.389 | 19.447 | 7.7868 | 13.361 | 28.907 | 64.281 | 21.089 |
| #1 | .00029 | -.00006 | -.00091 | -.00102 | -.06742 | -.00120 | .00347 | -.00002 | -.00032 |
| #2 | .00045 | -.00032 | -.00168 | -.00135 | -.06038 | -.00145 | .00525 | -.00001 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.14046** | **-.00015** | F **.19642** | **.00158** | **-.04482** | **-.00213** | **.00277** | **.01092** | **.00017** |
| Stddev | .00292 | .00026 | .00059 | .00001 | .00055 | .00230 | .00033 | .01106 | .00050 |
| %RSD | 2.0770 | 174.74 | .30183 | .62084 | 1.2190 | 107.69 | 11.919 | 101.30 | 301.31 |
| #1 | -.14252 | .00003 | .19684 | .00159 | -.04443 | -.00051 | .00300 | .01874 | .00052 |
| #2 | -.13840 | -.00033 | .19600 | .00158 | -.04521 | -.00376 | .00254 | .00310 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00430** | **-.00039** | **-.00220** | **-.00439** | **-.00045** | **.00263** | **-.00045** |
| Stddev | .00018 | .00285 | .00029 | .00003 | .03613 | .00013 | .00003 | .00193 |
| %RSD | 142.60 | 66.405 | 74.637 | 1.2909 | 822.49 | 27.971 | 1.1190 | 427.05 |
| #1 | .00025 | .00631 | -.00019 | -.00218 | -.02994 | -.00036 | .00265 | -.00181 |
| #2 | -.00000 | .00228 | -.00060 | -.00222 | .02116 | -.00054 | .00261 | .00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5261.5** | **65476.** | **3893.8** |
| Stddev | 2.6 | 280. | 24.4 |
| %RSD | .04926 | .42764 | .62628 |
| #1 | 5259.7 | 65278. | 3876.6 |
| #2 | 5263.4 | 65674. | 3911.1 |

Sample Name: LCS 280-173462/2-A Acquired: 5/16/2013 15:59:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05381** | **1.9604** | **.98015** | **1.0427** | **2.0230** | **.04807** | **2.0106** | **48.724** | **.10227** |
| Stddev | .00042 | .0022 | .00307 | .0023 | .0067 | .00025 | .0052 | .248 | .00004 |
| %RSD | .78970 | .11263 | .31304 | .22436 | .33306 | .51819 | .25677 | .50931 | .04242 |
| #1 | .05351 | 1.9620 | .97798 | 1.0410 | 2.0182 | .04824 | 2.0070 | 48.548 | .10230 |
| #2 | .05411 | 1.9588 | .98232 | 1.0443 | 2.0277 | .04789 | 2.0143 | 48.899 | .10224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50197** | **.19551** | **.24315** | F **1.1894** | **51.955** | **1.0299** | **49.177** | **.50010** | **.96402** |
| Stddev | .00013 | .00022 | .00008 | .0009 | .349 | .0066 | .005 | .00002 | .00161 |
| %RSD | .02550 | .11278 | .03349 | .07545 | .67236 | .64398 | .00930 | .00389 | .16659 |
| #1 | .50188 | .19566 | .24321 | 1.1900 | 51.708 | 1.0252 | 49.174 | .50011 | .96516 |
| #2 | .50206 | .19535 | .24309 | 1.1887 | 52.202 | 1.0346 | 49.181 | .50008 | .96289 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.717** | **.52337** | **10.503** | **.49881** | **-.05122** | **.50881** | **2.0617** | **9.6703** | **1.9152** |
| Stddev | .239 | .00007 | .003 | .00030 | .00536 | .00140 | .0080 | .0027 | .0062 |
| %RSD | .45348 | .01305 | .03260 | .06038 | 10.458 | .27539 | .38735 | .02799 | .32317 |
| #1 | 52.548 | .52332 | 10.505 | .49902 | -.05501 | .50782 | 2.0560 | 9.6722 | 1.9108 |
| #2 | 52.886 | .52342 | 10.501 | .49860 | -.04744 | .50980 | 2.0673 | 9.6684 | 1.9195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0390** | **1.0444** | **1.0058** | **1.9499** | **2.0241** | **.49152** | **.49274** | **.47448** |
| Stddev | .0054 | .0039 | .0003 | .0092 | .0180 | .00067 | .00055 | .00466 |
| %RSD | .51593 | .37054 | .02818 | .47434 | .88801 | .13660 | .11087 | .98158 |
| #1 | 1.0352 | 1.0417 | 1.0056 | 1.9433 | 2.0114 | .49200 | .49312 | .47778 |
| #2 | 1.0427 | 1.0471 | 1.0060 | 1.9564 | 2.0368 | .49105 | .49235 | .47119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5143.7** | **64060.** | **3856.1** |
| Stddev | 3.1 | 200. | 36.0 |
| %RSD | .05948 | .31252 | .93338 |
| #1 | 5141.5 | 63918. | 3881.6 |
| #2 | 5145.8 | 64201. | 3830.7 |

Sample Name: LCSD 280-173462/3-A Acquired: 5/16/2013 16:01:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05332** | **1.9455** | **.97955** | **1.0410** | **2.0070** | **.04764** | **2.0042** | **48.282** | **.10196** |
| Stddev | .00043 | .0033 | .00470 | .0019 | .0214 | .00024 | .0020 | .466 | .00002 |
| %RSD | .80138 | .17139 | .47956 | .18747 | 1.0682 | .51362 | .10065 | .96609 | .02361 |
| #1 | .05362 | 1.9479 | .98287 | 1.0424 | 1.9919 | .04747 | 2.0056 | 47.953 | .10194 |
| #2 | .05302 | 1.9431 | .97623 | 1.0396 | 2.0222 | .04781 | 2.0028 | 48.612 | .10197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49913** | **.19466** | **.24139** | **.94101** | **51.471** | **1.0169** | **48.878** | **.49512** | **.96312** |
| Stddev | .00025 | .00072 | .00002 | .00287 | .525 | .0086 | .069 | .00114 | .00168 |
| %RSD | .05012 | .37168 | .00767 | .30523 | 1.0200 | .84671 | .14014 | .23069 | .17395 |
| #1 | .49931 | .19517 | .24138 | .93898 | 51.100 | 1.0108 | 48.926 | .49593 | .96431 |
| #2 | .49896 | .19415 | .24141 | .94304 | 51.843 | 1.0229 | 48.830 | .49432 | .96194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.502** | **.48489** | **10.421** | **.49575** | **-.05076** | **.50594** | **2.0529** | **9.6713** | **1.9086** |
| Stddev | .290 | .00125 | .005 | .00179 | .00331 | .00240 | .0133 | .0211 | .0054 |
| %RSD | .55150 | .25787 | .04891 | .36009 | 6.5197 | .47489 | .64550 | .21830 | .28273 |
| #1 | 52.706 | .48577 | 10.425 | .49448 | -.04842 | .50764 | 2.0623 | 9.6564 | 1.9124 |
| #2 | 52.297 | .48400 | 10.418 | .49701 | -.05310 | .50424 | 2.0436 | 9.6862 | 1.9047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0292** | **1.0381** | **1.0006** | **1.9333** | **2.0179** | **.48865** | **.48834** | **.47806** |
| Stddev | .0100 | .0053 | .0008 | .0059 | .0388 | .00080 | .00199 | .00312 |
| %RSD | .97239 | .51120 | .07639 | .30662 | 1.9240 | .16291 | .40793 | .65204 |
| #1 | 1.0221 | 1.0419 | 1.0011 | 1.9375 | 1.9904 | .48921 | .48975 | .48027 |
| #2 | 1.0363 | 1.0344 | 1.0000 | 1.9291 | 2.0453 | .48809 | .48693 | .47586 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5168.4** | **64402.** | **3886.0** |
| Stddev | 9.4 | 443. | 68.0 |
| %RSD | .18262 | .68858 | 1.7495 |
| #1 | 5161.8 | 64088. | 3934.1 |
| #2 | 5175.1 | 64715. | 3837.9 |

Sample Name: 280-41987-A-1-A  Acquired: 5/16/2013 16:03:48  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02429** | **39.462** | **.17655** | **.61710** | **1.0488** | **.01753** | **.26443** | **90.626** | **.03576** |
| Stddev | .00051 | .100 | .00189 | .00122 | .0016 | .00017 | .00186 | .102 | .00001 |
| %RSD | 2.1008 | .25448 | 1.0702 | .19731 | .15417 | .95528 | .70461 | .11240 | .03222 |
| #1 | .02465 | 39.391 | .17789 | .61797 | 1.0500 | .01765 | .26575 | 90.554 | .03575 |
| #2 | .02393 | 39.534 | .17522 | .61624 | 1.0477 | .01741 | .26311 | 90.698 | .03577 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11424** | **.43093** | **.34490** | **57.075** | **24.712** | **.23709** | **44.610** | **3.9025** | **.33295** |
| Stddev | .00053 | .00153 | .00105 | .103 | .101 | .00006 | .154 | .0086 | .00145 |
| %RSD | .46448 | .35597 | .30580 | .18013 | .40905 | .02414 | .34605 | .21948 | .43617 |
| #1 | .11461 | .43202 | .34565 | 57.148 | 24.640 | .23713 | 44.720 | 3.9086 | .33398 |
| #2 | .11386 | .42985 | .34416 | 57.002 | 24.783 | .23705 | 44.501 | 3.8965 | .33192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **321.04** | **.23969** | **3.4749** | **1.4194** | **61.255** | **.09468** | **.27470** | **6.9510** | **.47891** |
| Stddev | .04 | .00043 | .0023 | .0011 | .051 | .00010 | .00198 | .0724 | .00241 |
| %RSD | .01243 | .17825 | .06608 | .07996 | .08282 | .10117 | .72236 | 1.0420 | .50345 |
| #1 | 321.02 | .23999 | 3.4765 | 1.4202 | 61.291 | .09475 | .27610 | 7.0022 | .48061 |
| #2 | 321.07 | .23939 | 3.4733 | 1.4186 | 61.219 | .09461 | .27329 | 6.8998 | .47720 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93114** | **.21473** | **1.4354** | **.25006** | **.34894** | **.19373** | **4.1180** | **.32909** |
| Stddev | .00261 | .00075 | .0034 | .00012 | .00134 | .00056 | .0114 | .00435 |
| %RSD | .27997 | .35043 | .23385 | .04911 | .38501 | .28898 | .27756 | 1.3210 |
| #1 | .92930 | .21420 | 1.4377 | .24997 | .34799 | .19413 | 4.1261 | .33216 |
| #2 | .93298 | .21526 | 1.4330 | .25014 | .34989 | .19333 | 4.1099 | .32601 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5386.2** | **66680.** | **4112.2** |
| Stddev | 19.0 | 306. | .7 |
| %RSD | .35311 | .45901 | .01584 |
| #1 | 5372.8 | 66464. | 4111.8 |
| #2 | 5399.7 | 66897. | 4112.7 |

Sample Name: sd 280-41987-A-1-A@5 Acquired: 5/16/2013 16:06:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00581** | **8.2427** | **.04069** | **.13135** | **.21810** | **.00352** | **.05679** | **18.905** | **.00748** |
| Stddev | .00017 | .0631 | .00431 | .00008 | .00177 | .00010 | .00271 | .145 | .00014 |
| %RSD | 2.8429 | .76535 | 10.583 | .05995 | .81041 | 2.7635 | 4.7764 | .76963 | 1.8374 |
| #1 | .00592 | 8.1980 | .04373 | .13141 | .21685 | .00359 | .05871 | 18.802 | .00739 |
| #2 | .00569 | 8.2873 | .03764 | .13130 | .21935 | .00345 | .05487 | 19.008 | .00758 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02476** | **.09083** | **.06966** | **11.558** | **5.1659** | **.04611** | **9.5791** | **.82038** | **.06845** |
| Stddev | .00010 | .00002 | .00018 | .010 | .0119 | .00031 | .0139 | .00080 | .00035 |
| %RSD | .39195 | .02651 | .25817 | .08447 | .22950 | .67126 | .14542 | .09779 | .50846 |
| #1 | .02469 | .09081 | .06978 | 11.564 | 5.1743 | .04633 | 9.5692 | .81981 | .06821 |
| #2 | .02483 | .09085 | .06953 | 11.551 | 5.1575 | .04589 | 9.5889 | .82094 | .06870 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.093** | **.05103** | **.72522** | **.30720** | **12.769** | **.01913** | **.05687** | **1.4611** | **.10199** |
| Stddev | .351 | .00027 | .00233 | .00120 | .015 | .00019 | .00121 | .0148 | .00012 |
| %RSD | .51504 | .53061 | .32188 | .38919 | .11496 | 1.0013 | 2.1281 | 1.0114 | .11688 |
| #1 | 67.845 | .05122 | .72357 | .30804 | 12.758 | .01900 | .05601 | 1.4506 | .10191 |
| #2 | 68.341 | .05084 | .72687 | .30635 | 12.779 | .01927 | .05772 | 1.4715 | .10208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19331** | **.04760** | **.29698** | **.05408** | **.05112** | **.03916** | **.88990** | **.06795** |
| Stddev | .00120 | .00188 | .00085 | .00061 | .00744 | .00022 | .00034 | .00451 |
| %RSD | .62251 | 3.9538 | .28753 | 1.1371 | 14.549 | .56378 | .03834 | 6.6337 |
| #1 | .19246 | .04627 | .29638 | .05452 | .05638 | .03901 | .88966 | .07113 |
| #2 | .19416 | .04893 | .29759 | .05365 | .04586 | .03932 | .89014 | .06476 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5362.5** | **66725.** | **4044.2** |
| Stddev | 16.6 | 44. | 28.5 |
| %RSD | .30989 | .06533 | .70523 |
| #1 | 5374.2 | 66756. | 4064.4 |
| #2 | 5350.7 | 66694. | 4024.0 |

Sample Name: MB 280-173087/1-A Acquired: 5/16/2013 16:08:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173087 SAR

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00127** | **.00091** | **.00129** | **.00054** | **.00011** | **.00000** | **.00070** | **.00115** | **.00012** |
| Stddev | .00018 | .00002 | .00050 | .00065 | .00032 | .00001 | .00029 | .00171 | .00012 |
| %RSD | 14.018 | 2.7105 | 38.346 | 120.16 | 294.13 | 184.18 | 40.742 | 147.89 | 103.33 |
| #1 | .00114 | .00093 | .00164 | .00008 | -.00012 | -.00000 | .00050 | .00236 | .00021 |
| #2 | .00139 | .00089 | .00094 | .00100 | .00033 | .00001 | .00090 | -.00005 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00017** | **-.00100** | **.00609** | **.02426** | **-.00198** | **.00199** | **.00001** | **-.00008** |
| Stddev | .00018 | .00006 | .00059 | .00051 | .08956 | .00197 | .00002 | .00003 | .00020 |
| %RSD | 116.89 | 34.802 | 58.900 | 8.3447 | 369.12 | 99.519 | .83937 | 430.11 | 239.06 |
| #1 | .00028 | .00013 | -.00059 | .00645 | .08759 | -.00059 | .00200 | -.00001 | -.00022 |
| #2 | .00003 | .00021 | -.00142 | .00573 | -.03907 | -.00338 | .00198 | .00003 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.09620** | **.00012** | **.00087** | **.00218** | **-.04216** | **-.00270** | **.00170** | **.00685** | **.00017** |
| Stddev | .00086 | .00003 | .00211 | .00018 | .00017 | .00248 | .00064 | .01714 | .00001 |
| %RSD | .89177 | 24.299 | 241.75 | 8.2325 | .40942 | 91.859 | 37.706 | 250.20 | 6.6753 |
| #1 | -.09681 | .00010 | -.00062 | .00205 | -.04228 | -.00446 | .00215 | -.00527 | .00016 |
| #2 | -.09559 | .00014 | .00236 | .00231 | -.04203 | -.00095 | .00125 | .01897 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00219** | **-.00038** | **-.00083** | **.00539** | **-.00021** | **.00191** | **.00097** |
| Stddev | .00013 | .00105 | .00030 | .00072 | .02048 | .00037 | .00000 | .00410 |
| %RSD | 98.494 | 47.824 | 77.686 | 86.196 | 379.99 | 174.17 | .07894 | 424.85 |
| #1 | .00022 | .00293 | -.00017 | -.00134 | -.00909 | .00005 | .00190 | -.00194 |
| #2 | .00004 | .00145 | -.00060 | -.00032 | .01987 | -.00047 | .00191 | .00387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5340.6** | **66226.** | **3947.8** |
| Stddev | 16.4 | 13. | 22.0 |
| %RSD | .30703 | .01958 | .55649 |
| #1 | 5329.0 | 66217. | 3932.3 |
| #2 | 5352.2 | 66235. | 3963.3 |

Sample Name: 280-41873-A-1-D Acquired: 5/16/2013 16:10:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173087 SAR

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **.33730** | **.00102** | **.01202** | **.01502** | **.00008** | **.00280** | **2.5714** | **-.00022** |
| Stddev | .00034 | .00053 | .00028 | .00040 | .00063 | .00006 | .00181 | .0145 | .00007 |
| %RSD | 33.943 | .15700 | 27.715 | 3.3313 | 4.1699 | 77.900 | 64.926 | .56357 | 33.955 |
| #1 | .00077 | .33692 | .00082 | .01230 | .01546 | .00012 | .00151 | 2.5817 | -.00027 |
| #2 | .00125 | .33767 | .00122 | .01174 | .01458 | .00004 | .00408 | 2.5612 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00065** | **.00292** | **.31065** | **.06450** | **-.00252** | **.26578** | **.04084** | **.00096** |
| Stddev | .00023 | .00003 | .00052 | .00381 | .00319 | .00217 | .00003 | .00004 | .00013 |
| %RSD | 48.762 | 5.0761 | 17.836 | 1.2266 | 4.9522 | 86.014 | .01042 | .09973 | 13.736 |
| #1 | .00030 | .00063 | .00255 | .31334 | .06676 | -.00405 | .26580 | .04087 | .00087 |
| #2 | .00063 | .00068 | .00329 | .30796 | .06224 | -.00099 | .26576 | .04081 | .00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.964** | **.00064** | **.01839** | **.00192** | **.74834** | **-.00278** | **.00271** | **.88162** | **.00006** |
| Stddev | .153 | .00049 | .00328 | .00042 | .00566 | .00079 | .00227 | .03035 | .00060 |
| %RSD | 1.1801 | 76.145 | 17.827 | 21.629 | .75591 | 28.279 | 83.895 | 3.4430 | 1049.7 |
| #1 | 12.856 | .00099 | .02071 | .00163 | .75234 | -.00334 | .00431 | .90308 | -.00037 |
| #2 | 13.072 | .00030 | .01607 | .00221 | .74434 | -.00222 | .00110 | .86016 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01533** | **.00127** | **.00555** | **-.00135** | **-.00335** | **.00063** | **.00920** | **.00050** |
| Stddev | .00004 | .00002 | .00033 | .00117 | .03045 | .00050 | .00017 | .00045 |
| %RSD | .27960 | 1.6093 | 5.9195 | 87.013 | 910.07 | 79.559 | 1.8037 | 89.471 |
| #1 | .01530 | .00128 | .00532 | -.00218 | -.02488 | .00098 | .00908 | .00082 |
| #2 | .01536 | .00125 | .00578 | -.00052 | .01818 | .00027 | .00931 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5400.1** | **66209.** | **4006.8** |
| Stddev | 10.4 | 52. | 31.2 |
| %RSD | .19178 | .07917 | .77892 |
| #1 | 5392.8 | 66246. | 3984.7 |
| #2 | 5407.4 | 66172. | 4028.8 |

Sample Name: sd 280-41873-A-1-D@5 Acquired: 5/16/2013 16:13:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173087 SAR

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **.06831** | **-.00059** | **.00226** | **.00288** | **.00002** | **.00122** | **.47660** | **-.00017** |
| Stddev | .00061 | .00092 | .00092 | .00037 | .00012 | .00005 | .00033 | .00185 | .00014 |
| %RSD | 49.290 | 1.3437 | 156.02 | 16.252 | 4.2561 | 286.92 | 26.734 | .38815 | 79.267 |
| #1 | .00081 | .06896 | -.00124 | .00252 | .00279 | .00006 | .00145 | .47529 | -.00027 |
| #2 | .00168 | .06766 | .00006 | .00200 | .00296 | -.00002 | .00099 | .47791 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00009** | **-.00104** | **.06582** | **-.02506** | **-.00202** | **.04791** | **.00787** | **-.00024** |
| Stddev | .00021 | .00021 | .00017 | .00205 | .03907 | .00005 | .00034 | .00012 | .00014 |
| %RSD | 46.333 | 231.54 | 16.100 | 3.1194 | 155.89 | 2.5496 | .71997 | 1.5142 | 57.225 |
| #1 | .00060 | -.00006 | -.00092 | .06437 | -.05269 | -.00206 | .04767 | .00779 | -.00034 |
| #2 | .00030 | .00024 | -.00116 | .06727 | .00256 | -.00199 | .04815 | .00796 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1682** | **.00023** | **.00476** | **.00259** | **.09802** | **-.00207** | **.00174** | **.17981** | **.00051** |
| Stddev | .0001 | .00022 | .00203 | .00181 | .00067 | .00226 | .00471 | .00747 | .00067 |
| %RSD | .00436 | 96.676 | 42.712 | 69.945 | .68246 | 108.97 | 271.17 | 4.1531 | 132.50 |
| #1 | 2.1682 | .00007 | .00619 | .00131 | .09755 | -.00367 | .00507 | .17453 | .00099 |
| #2 | 2.1683 | .00039 | .00332 | .00386 | .09850 | -.00048 | -.00159 | .18509 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00294** | **.00241** | **.00063** | **-.00088** | **-.02356** | **-.00032** | **.00544** | **.00368** |
| Stddev | .00006 | .00411 | .00012 | .00088 | .01017 | .00012 | .00091 | .00215 |
| %RSD | 1.8868 | 170.60 | 19.666 | 100.76 | 43.179 | 36.030 | 16.730 | 58.407 |
| #1 | .00290 | .00532 | .00055 | -.00025 | -.03076 | -.00024 | .00608 | .00216 |
| #2 | .00298 | -.00050 | .00072 | -.00150 | -.01637 | -.00041 | .00479 | .00520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5321.8** | **65795.** | **3934.0** |
| Stddev | 13.3 | 32. | 43.1 |
| %RSD | .24941 | .04793 | 1.0949 |
| #1 | 5312.4 | 65818. | 3964.4 |
| #2 | 5331.2 | 65773. | 3903.5 |

Sample Name: 280-41873-A-2-G Acquired: 5/16/2013 16:15:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173087 SAR

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00436** | **94.770** | **.00288** | **.39005** | **4.3517** | **.01940** | W **-.01274** | **26.547** | **.00206** |
| Stddev | .00116 | .227 | .00181 | .00062 | .0046 | .00007 | .00049 | .080 | .00008 |
| %RSD | 26.639 | .23973 | 62.720 | .15853 | .10614 | .36354 | 3.8534 | .29977 | 4.0376 |
| #1 | .00518 | 94.609 | .00416 | .38961 | 4.3484 | .01945 | -.01239 | 26.491 | .00212 |
| #2 | .00354 | 94.930 | .00160 | .39049 | 4.3549 | .01935 | -.01308 | 26.603 | .00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14542** | **.17558** | **.83764** | **163.38** | **14.145** | **.21535** | **22.813** | **4.5251** | **.00332** |
| Stddev | .00009 | .00021 | .00153 | .14 | .018 | .00044 | .006 | .0403 | .00020 |
| %RSD | .06391 | .12108 | .18315 | .08276 | .12654 | .20383 | .02466 | .89180 | 6.0134 |
| #1 | .14536 | .17543 | .83656 | 163.28 | 14.157 | .21566 | 22.817 | 4.4966 | .00318 |
| #2 | .14549 | .17573 | .83873 | 163.47 | 14.132 | .21504 | 22.809 | 4.5536 | .00346 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **244.88** | **.16175** | **.93640** | **.23375** | **13.696** | **-.00645** | **.00722** | W **114.34** | **.00998** |
| Stddev | .00 | .00016 | .00526 | .00173 | .071 | .00153 | .00298 | .14 | .00053 |
| %RSD | .00076 | .09702 | .56121 | .73816 | .51768 | 23.801 | 41.271 | .12585 | 5.3219 |
| #1 | 244.88 | .16186 | .93268 | .23253 | 13.646 | -.00536 | .00512 | 114.24 | .01035 |
| #2 | 244.88 | .16164 | .94012 | .23497 | 13.746 | -.00753 | .00933 | 114.44 | .00960 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 50.000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98040** | **.04591** | **.25097** | **-.00357** | **-.00623** | **.22333** | **.80301** | **.03825** |
| Stddev | .00501 | .00007 | .00037 | .00037 | .01590 | .00004 | .00121 | .00184 |
| %RSD | .51066 | .14985 | .14667 | 10.434 | 255.41 | .01757 | .15033 | 4.8043 |
| #1 | .97686 | .04587 | .25071 | -.00383 | -.01747 | .22335 | .80386 | .03695 |
| #2 | .98394 | .04596 | .25123 | -.00330 | .00502 | .22330 | .80216 | .03955 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5475.2** | **66570.** | **4102.9** |
| Stddev | 27.3 | 116. | 21.8 |
| %RSD | .49784 | .17454 | .53119 |
| #1 | 5456.0 | 66488. | 4087.5 |
| #2 | 5494.5 | 66652. | 4118.3 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 16:18:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **49.616** | **.00147** | **.00118** | **.00048** | **.00017** | **.97839** | **-.00252** | **-.00076** | **.00208** | **.00004** | **-.00191** | **48.233** |
| Stddev | .00010 | .142 | .00220 | .00048 | .00039 | .00011 | .00250 | .00458 | .00014 | .00024 | .00001 | .00051 | .146 |
| %RSD | 29.762 | .28535 | 149.28 | 40.293 | 80.489 | 62.371 | .25518 | 181.53 | 18.979 | 11.550 | 34.080 | 26.519 | .30279 |
| #1 | .00028 | 49.716 | -.00008 | .00152 | .00076 | .00010 | .97662 | -.00576 | -.00086 | .00191 | .00003 | -.00155 | 48.337 |
| #2 | .00043 | 49.516 | .00303 | .00085 | .00021 | .00025 | .98015 | .00071 | -.00066 | .00225 | .00005 | -.00227 | 48.130 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02140** | **-.00275** | **.01095** | **-.00027** | **-.00210** | **256.03** | **.00105** | **.00578** | **.00213** | **4.8953** | **-.00050** | **.01099** | **.01408** |
| Stddev | .00400 | .00092 | .00219 | .00002 | .00001 | 1.76 | .00006 | .00052 | .00051 | .0285 | .00116 | .00001 | .01499 |
| %RSD | 18.713 | 33.519 | 20.040 | 6.2266 | .48274 | .68566 | 5.3629 | 8.9217 | 24.056 | .58111 | 230.61 | .07314 | 106.43 |
| #1 | -.02423 | -.00340 | .01250 | -.00025 | -.00210 | 257.28 | .00101 | .00542 | .00249 | 4.8752 | -.00132 | .01098 | .00348 |
| #2 | -.01857 | -.00210 | .00940 | -.00028 | -.00209 | 254.79 | .00109 | .00615 | .00177 | 4.9154 | .00032 | .01099 | .02468 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00043** | **5.1575** | **.00383** | **-.00378** | **10.054** | **-.00111** | **.00369** | **-.05681** |
| Stddev | .00074 | .00026 | .0050 | .00013 | .00021 | .031 | .00012 | .00021 | .00196 |
| %RSD | 1264.0 | 59.982 | .09635 | 3.3864 | 5.4967 | .30716 | 10.463 | 5.8046 | 3.4492 |
| #1 | .00059 | .00025 | 5.1610 | .00392 | -.00363 | 10.076 | -.00103 | .00354 | -.05543 |
| #2 | -.00047 | .00061 | 5.1540 | .00373 | -.00393 | 10.032 | -.00119 | .00385 | -.05820 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5266.7** | **64598.** | **3894.4** |
| Stddev | 2.6 | 598. | 7.5 |
| %RSD | .04881 | .92610 | .19174 |
| #1 | 5268.5 | 64175. | 3889.1 |
| #2 | 5264.9 | 65021. | 3899.7 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 16:20:37 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50997** | **.50024** | **.96905** | **.51055** | **.50034** | **.47164** | **.00541** | **4.8943** | **.49778** | **.50739** | **.48526** | **.48272** | **2.3297** |
| Stddev | .00014 | .00091 | .00361 | .00032 | .00265 | .00312 | .00297 | .0192 | .00063 | .00121 | .00063 | .00076 | .0115 |
| %RSD | .02681 | .18246 | .37276 | .06304 | .52900 | .66098 | 54.956 | .39150 | .12570 | .23930 | .12986 | .15735 | .49168 |
| #1 | .51007 | .49960 | .96649 | .51032 | .50221 | .47385 | .00751 | 4.9078 | .49734 | .50653 | .48481 | .48219 | 2.3378 |
| #2 | .50987 | .50089 | .97160 | .51078 | .49846 | .46944 | .00331 | 4.8807 | .49822 | .50825 | .48570 | .48326 | 2.3216 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.831** | **1.0220** | **19.527** | **.49888** | **.47450** | **4.8659** | **.49299** | **1.0003** | **1.0024** | **-.04721** | **.99440** | **1.0158** | **4.7195** |
| Stddev | .215 | .0059 | .019 | .00088 | .00113 | .0384 | .00028 | .0010 | .0016 | .00187 | .00066 | .0025 | .0064 |
| %RSD | .42326 | .57468 | .09666 | .17604 | .23854 | .79012 | .05635 | .09577 | .15772 | 3.9708 | .06648 | .24640 | .13484 |
| #1 | 50.983 | 1.0262 | 19.514 | .49826 | .47370 | 4.8931 | .49279 | .99966 | 1.0013 | -.04589 | .99393 | 1.0176 | 4.7240 |
| #2 | 50.679 | 1.0179 | 19.541 | .49950 | .47530 | 4.8387 | .49318 | 1.0010 | 1.0035 | -.04854 | .99486 | 1.0140 | 4.7150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94947** | **.51358** | **.00375** | **.49493** | **.96587** | **-.00923** | **.48200** | **.49053** | **.48361** |
| Stddev | .00402 | .00249 | .00181 | .00058 | .00221 | .05234 | .00002 | .00225 | .00381 |
| %RSD | .42328 | .48426 | 48.307 | .11755 | .22835 | 566.90 | .00497 | .45832 | .78850 |
| #1 | .94663 | .51534 | .00247 | .49452 | .96743 | .02778 | .48201 | .49212 | .48630 |
| #2 | .95231 | .51182 | .00503 | .49534 | .96431 | -.04624 | .48198 | .48894 | .48091 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5365.2** | **66393.** | **4022.3** |
| Stddev | 1.7 | 83. | 18.2 |
| %RSD | .03254 | .12531 | .45258 |
| #1 | 5364.0 | 66452. | 4009.5 |
| #2 | 5366.4 | 66335. | 4035.2 |

Sample Name: CCB Acquired: 5/16/2013 16:22:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00133** | **.00094** | **-.00067** | **-.00008** | **-.00002** | **.00001** | **-.00263** | **-.00381** | **.00013** | **.00004** | **.00012** |
| Stddev | .00019 | .00106 | .00164 | .00004 | .00004 | .00012 | .00225 | .00528 | .00005 | .00013 | .00009 |
| %RSD | 13.963 | 113.06 | 245.51 | 47.314 | 183.28 | 958.15 | 85.833 | 138.58 | 41.877 | 297.99 | 74.503 |
| #1 | .00146 | .00169 | .00049 | -.00005 | -.00004 | .00010 | -.00103 | -.00008 | .00009 | .00013 | .00006 |
| #2 | .00120 | .00019 | -.00183 | -.00011 | .00001 | -.00007 | -.00422 | -.00755 | .00017 | -.00005 | .00019 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00142** | **-.00159** | **.04530** | **-.00110** | **.00237** | **-.00012** | **-.00011** | **-.07283** | **-.00024** | **.00006** | **.00222** |
| Stddev | .00003 | .00012 | .03025 | .00005 | .00070 | .00003 | .00016 | .00236 | .00045 | .00033 | .00094 |
| %RSD | 2.3304 | 7.6673 | 66.775 | 4.6183 | 29.439 | 20.877 | 152.69 | 3.2471 | 191.82 | 517.02 | 42.309 |
| #1 | -.00144 | -.00151 | .06669 | -.00114 | .00286 | -.00010 | .00001 | -.07116 | .00008 | -.00017 | .00155 |
| #2 | -.00139 | -.00168 | .02391 | -.00107 | .00188 | -.00014 | -.00022 | -.07451 | -.00056 | .00030 | .00288 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | | | | | | | | |
| Low Limit | -.00136 | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04348** | **-.00058** | **.00151** | **.01823** | **.00037** | **.00003** | **.00285** | **-.00019** | **-.00219** | **-.00515** | **-.00093** |
| Stddev | .00116 | .00031 | .00124 | .00338 | .00077 | .00007 | .00039 | .00048 | .00152 | .02980 | .00042 |
| %RSD | 2.6656 | 53.444 | 82.350 | 18.541 | 208.56 | 214.17 | 13.833 | 255.82 | 69.481 | 578.60 | 45.044 |
| #1 | -.04266 | -.00036 | .00239 | .01584 | .00091 | -.00002 | .00257 | .00015 | -.00112 | -.02622 | -.00122 |
| #2 | -.04430 | -.00080 | .00063 | .02062 | -.00017 | .00008 | .00313 | -.00052 | -.00327 | .01592 | -.00063 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00230** | **.00127** |
| Stddev | .00033 | .00239 |
| %RSD | 14.485 | 188.22 |
| #1 | .00254 | .00296 |
| #2 | .00207 | -.00042 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5382.2** | **66831.** | **3966.4** |
| Stddev | 23.1 | 134. | 6.3 |
| %RSD | .42841 | .20100 | .15889 |
| #1 | 5365.9 | 66736. | 3961.9 |
| #2 | 5398.5 | 66926. | 3970.9 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 16:25:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01182** | **.10277** | **.01546** | **.10200** | **.01003** | **.00090** | **.10249** | **.19613** | **.00508** | **.01069** | **.01012** |
| Stddev | .00035 | .00069 | .00090 | .00043 | .00039 | .00001 | .00071 | .00068 | .00014 | .00018 | .00019 |
| %RSD | 2.9289 | .67211 | 5.8103 | .42060 | 3.9104 | 1.6409 | .69186 | .34766 | 2.8467 | 1.7191 | 1.8810 |
| #1 | .01157 | .10228 | .01609 | .10231 | .01031 | .00091 | .10199 | .19661 | .00518 | .01056 | .01026 |
| #2 | .01206 | .10326 | .01482 | .10170 | .00975 | .00089 | .10299 | .19564 | .00498 | .01082 | .00999 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01322** | **.09178** | **3.1908** | W **.00789** | **.20385** | **.01015** | **.01832** | **.91524** | **.04043** | **2.9658** | **.01014** |
| Stddev | .00022 | .00178 | .0369 | .00055 | .00182 | .00009 | .00042 | .00272 | .00010 | .0044 | .00042 |
| %RSD | 1.6920 | 1.9402 | 1.1573 | 6.9874 | .89493 | .85169 | 2.3056 | .29694 | .23679 | .14788 | 4.1054 |
| #1 | .01307 | .09303 | 3.2169 | .00828 | .20514 | .01008 | .01862 | .91331 | .04050 | 2.9689 | .00985 |
| #2 | .01338 | .09052 | 3.1647 | .00750 | .20256 | .01021 | .01802 | .91716 | .04036 | 2.9627 | .01043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04732** | W **.00796** | **.01640** | **.47582** | **.09554** | **.01057** | **.01419** | **.00998** | **.01371** | **.05015** | **.00857** |
| Stddev | .00280 | .00006 | .00241 | .00299 | .00009 | .00007 | .00043 | .00029 | .00058 | .02363 | .00003 |
| %RSD | 5.9120 | .79329 | 14.689 | .62847 | .09055 | .69357 | 3.0057 | 2.9212 | 4.2025 | 47.108 | .36272 |
| #1 | -.04930 | .00791 | .01810 | .47371 | .09560 | .01052 | .01449 | .00977 | .01412 | .03345 | .00855 |
| #2 | -.04535 | .00800 | .01470 | .47794 | .09548 | .01062 | .01389 | .01018 | .01330 | .06686 | .00859 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | -20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02296** | **.01656** |
| Stddev | .00039 | .00004 |
| %RSD | 1.7138 | .24119 |
| #1 | .02324 | .01659 |
| #2 | .02268 | .01653 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5461.9** | **67903.** | **4043.4** |
| Stddev | 8.4 | 276. | 46.4 |
| %RSD | .15458 | .40592 | 1.1472 |
| #1 | 5467.9 | 67708. | 4010.6 |
| #2 | 5456.0 | 68098. | 4076.2 |

Sample Name: 280-41987-A-2-A@5 Acquired: 5/16/2013 16:27:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.53628** | **.00563** | **.12219** | **.00970** | **-.00003** | **.00096** | **3.0398** | **.00152** |
| Stddev | .00031 | .00130 | .00158 | .00019 | .00035 | .00002 | .00044 | .0029 | .00013 |
| %RSD | 31.929 | .24200 | 27.976 | .15259 | 3.5866 | 66.845 | 45.544 | .09719 | 8.8179 |
| #1 | .00120 | .53536 | .00675 | .12232 | .00946 | -.00001 | .00065 | 3.0419 | .00142 |
| #2 | .00076 | .53720 | .00452 | .12206 | .00995 | -.00004 | .00127 | 3.0377 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00492** | **.00289** | **5.3234** | **3.5934** | **.00282** | **1.4737** | **.03136** | **.00338** |
| Stddev | .00015 | .00008 | .00042 | .0058 | .1316 | .00256 | .0074 | .00004 | .00025 |
| %RSD | 18.181 | 1.5410 | 14.543 | .10818 | 3.6634 | 90.758 | .49984 | .13314 | 7.2920 |
| #1 | .00070 | .00487 | .00319 | 5.3193 | 3.5003 | .00101 | 1.4789 | .03133 | .00355 |
| #2 | .00091 | .00497 | .00260 | 5.3274 | 3.6865 | .00463 | 1.4685 | .03139 | .00321 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2363.1** | **.00264** | **26.409** | **.00834** | **51.591** | **.00167** | **.00556** | **1.6160** | **.21443** |
| Stddev | 19.6 | .00011 | .028 | .00120 | .064 | .00137 | .00244 | .0185 | .00100 |
| %RSD | .82819 | 4.0312 | .10477 | 14.370 | .12450 | 82.040 | 43.946 | 1.1461 | .46431 |
| #1 | 2376.9 | .00257 | 26.389 | .00919 | 51.546 | .00263 | .00728 | 1.6029 | .21372 |
| #2 | 2349.2 | .00272 | 26.429 | .00749 | 51.637 | .00070 | .00383 | 1.6291 | .21513 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04300** | **.00110** | **.00583** | **-.00076** | **.05098** | **.00059** | **.12577** | **.00594** |
| Stddev | .00011 | .00056 | .00020 | .00074 | .04378 | .00061 | .00042 | .00232 |
| %RSD | .26465 | 51.133 | 3.4565 | 97.210 | 85.877 | 102.44 | .33097 | 39.077 |
| #1 | .04308 | .00150 | .00597 | -.00024 | .02002 | .00102 | .12548 | .00430 |
| #2 | .04292 | .00070 | .00568 | -.00128 | .08194 | .00016 | .12607 | .00759 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5199.0** | **64934.** | **4047.0** |
| Stddev | 13.7 | 492. | 78.5 |
| %RSD | .26423 | .75701 | 1.9388 |
| #1 | 5189.2 | 64586. | 3991.5 |
| #2 | 5208.7 | 65281. | 4102.5 |

Sample Name: 280-41987-A-3-A  Acquired: 5/16/2013 16:31:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02401** | **332.51** | **.14741** | **.73788** | **4.3960** | **.00890** | **.04949** | W **763.16** | **.16347** |
| Stddev | .00109 | 1.76 | .00278 | .00423 | .0124 | .00012 | .00338 | 5.10 | .00092 |
| %RSD | 4.5508 | .52948 | 1.8891 | .57388 | .28276 | 1.3518 | 6.8322 | .66816 | .56394 |
| #1 | .02323 | 331.27 | .14544 | .74088 | 4.3872 | .00898 | .04710 | 759.56 | .16412 |
| #2 | .02478 | 333.76 | .14938 | .73489 | 4.4048 | .00881 | .05188 | 766.77 | .16282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29151** | W **12.381** | **2.6126** | **258.04** | **52.509** | **.26303** | W **576.83** | **7.1526** | **1.0125** |
| Stddev | .00099 | .009 | .0033 | .84 | .478 | .00238 | 2.69 | .0102 | .0010 |
| %RSD | .33895 | .06958 | .12553 | .32368 | .91021 | .90646 | .46620 | .14220 | .10249 |
| #1 | .29221 | 12.387 | 2.6149 | 257.45 | 52.171 | .26134 | 574.92 | 7.1454 | 1.0132 |
| #2 | .29081 | 12.375 | 2.6102 | 258.63 | 52.847 | .26471 | 578.73 | 7.1597 | 1.0117 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | 500.00 | | |
| Low Limit | | -.01000 | | | | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1107.6** | **2.1493** | **15.158** | **2.9395** | **191.38** | **.07216** | **.04846** | W **73.308** | **.35314** |
| Stddev | 3.9 | .0012 | .008 | .0033 | .09 | .00150 | .00147 | .090 | .00076 |
| %RSD | .34989 | .05680 | .05053 | .11227 | .04511 | 2.0816 | 3.0248 | .12260 | .21576 |
| #1 | 1104.9 | 2.1502 | 15.152 | 2.9371 | 191.44 | .07110 | .04950 | 73.244 | .35368 |
| #2 | 1110.4 | 2.1485 | 15.163 | 2.9418 | 191.32 | .07322 | .04742 | 73.371 | .35260 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 500.00 | | | | | | | 50.000 | |
| Low Limit | 10.000 | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4379** | **.10489** | **4.7120** | W **-.01049** | F **-.11697** | **.50530** | W **12.379** | **.07179** |
| Stddev | .0238 | .00211 | .0075 | .00095 | .02083 | .00095 | .008 | .00151 |
| %RSD | .69209 | 2.0085 | .15833 | 9.0412 | 17.808 | .18784 | .06245 | 2.1091 |
| #1 | 3.4211 | .10340 | 4.7172 | -.01117 | -.10224 | .50597 | 12.385 | .07286 |
| #2 | 3.4547 | .10638 | 4.7067 | -.00982 | -.13170 | .50463 | 12.374 | .07072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 5.0000 | 50.000 | | 10.000 | |
| Low Limit | | | | -.01000 | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5421.4** | **68014.** | **4552.6** |
| Stddev | 2.0 | 179. | 20.5 |
| %RSD | .03725 | .26363 | .45012 |
| #1 | 5420.0 | 68141. | 4567.1 |
| #2 | 5422.8 | 67887. | 4538.1 |

Sample Name: 280-41987-A-4-A  Acquired: 5/16/2013 16:34:51  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.18338** | **9.5201** | **.38964** | **.81673** | **.80923** | **.00049** | **.00105** | **135.72** | W **2.7032** |
| Stddev | .00006 | .0360 | .00220 | .00198 | .00568 | .00013 | .00096 | .10 | .0069 |
| %RSD | .03171 | .37848 | .56545 | .24233 | .70189 | 26.695 | 92.155 | .07733 | .25459 |
| #1 | .18342 | 9.5456 | .38808 | .81533 | .81324 | .00058 | .00036 | 135.79 | 2.6984 |
| #2 | .18334 | 9.4946 | .39120 | .81813 | .80521 | .00039 | .00173 | 135.65 | 2.7081 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | | | | 2.0000 |
| Low Limit | -.01000 | | | | | | | | -.00500 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00887** | **.16332** | **.88666** | **23.245** | **40.658** | **.18096** | **89.697** | **.75284** | **.10014** |
| Stddev | .00030 | .00031 | .00272 | .044 | .014 | .00009 | .064 | .00043 | .00048 |
| %RSD | 3.3846 | .18946 | .30669 | .19040 | .03528 | .04993 | .07120 | .05736 | .48179 |
| #1 | .00866 | .16310 | .88474 | 23.276 | 40.668 | .18103 | 89.652 | .75254 | .09980 |
| #2 | .00909 | .16354 | .88858 | 23.213 | 40.648 | .18090 | 89.743 | .75315 | .10049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **826.84** | **.32831** | **2.1303** | **.16537** | **410.99** | **.02425** | **.05412** | **22.359** | **.09348** |
| Stddev | 3.65 | .00054 | .0093 | .00044 | .88 | .00220 | .00141 | .106 | .00056 |
| %RSD | .44171 | .16500 | .43691 | .26530 | .21453 | 9.0868 | 2.5968 | .47547 | .59413 |
| #1 | 829.43 | .32792 | 2.1237 | .16568 | 410.37 | .02269 | .05511 | 22.284 | .09309 |
| #2 | 824.26 | .32869 | 2.1368 | .16506 | 411.61 | .02580 | .05312 | 22.434 | .09387 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9037** | **.01032** | **.16109** | **-.00145** | **-.04675** | **.03507** | **3.0655** | **.01109** |
| Stddev | .0028 | .00187 | .00058 | .00185 | .00959 | .00112 | .0049 | .00080 |
| %RSD | .14594 | 18.151 | .35934 | 127.20 | 20.513 | 3.1989 | .15867 | 7.1726 |
| #1 | 1.9056 | .01164 | .16068 | -.00015 | -.05353 | .03586 | 3.0621 | .01165 |
| #2 | 1.9017 | .00900 | .16149 | -.00276 | -.03997 | .03428 | 3.0690 | .01053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5198.3** | **65812.** | **4110.1** |
| Stddev | 28.3 | 155. | 11.9 |
| %RSD | .54495 | .23521 | .28921 |
| #1 | 5218.4 | 65703. | 4101.7 |
| #2 | 5178.3 | 65922. | 4118.5 |

Sample Name: 280-41987-A-5-A Acquired: 5/16/2013 16:37:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00320** | **5.7966** | **.12916** | **2.2858** | **.20386** | **.00020** | **.00119** | **93.463** | **.46670** |
| Stddev | .00031 | .0235 | .00046 | .0048 | .00078 | .00012 | .00130 | .503 | .00165 |
| %RSD | 9.6967 | .40571 | .35557 | .21175 | .38486 | 61.584 | 109.17 | .53838 | .35298 |
| #1 | .00342 | 5.7800 | .12883 | 2.2823 | .20330 | .00011 | .00027 | 93.107 | .46554 |
| #2 | .00298 | 5.8132 | .12948 | 2.2892 | .20441 | .00028 | .00211 | 93.819 | .46787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00988** | **.13274** | **.85660** | **38.412** | **48.086** | **.08223** | **40.941** | **.63911** | **.04167** |
| Stddev | .00027 | .00010 | .00313 | .224 | .245 | .00106 | .056 | .00105 | .00004 |
| %RSD | 2.7778 | .07569 | .36487 | .58401 | .50950 | 1.2890 | .13700 | .16361 | .08754 |
| #1 | .00969 | .13267 | .85439 | 38.253 | 47.913 | .08148 | 40.901 | .63837 | .04164 |
| #2 | .01008 | .13281 | .85881 | 38.571 | 48.259 | .08298 | 40.980 | .63985 | .04170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **719.12** | **.45549** | **2.0045** | **.02719** | **591.18** | **.04458** | **.01995** | **11.907** | **.07127** |
| Stddev | 4.98 | .00091 | .0021 | .00002 | .57 | .00134 | .00190 | .104 | .00136 |
| %RSD | .69238 | .19912 | .10625 | .08417 | .09627 | 3.0014 | 9.5375 | .87296 | 1.9097 |
| #1 | 715.60 | .45484 | 2.0060 | .02717 | 590.78 | .04553 | .01860 | 11.833 | .07030 |
| #2 | 722.64 | .45613 | 2.0030 | .02721 | 591.58 | .04364 | .02129 | 11.980 | .07223 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.81672** | **.01779** | **.15014** | **-.00444** | **.01541** | **.03376** | **2.0545** | **.00891** |
| Stddev | .00357 | .00224 | .00136 | .00019 | .01351 | .00029 | .0016 | .00032 |
| %RSD | .43716 | 12.562 | .90805 | 4.3783 | 87.698 | .84962 | .07902 | 3.6363 |
| #1 | .81419 | .01937 | .14918 | -.00431 | .00585 | .03355 | 2.0556 | .00868 |
| #2 | .81924 | .01621 | .15111 | -.00458 | .02496 | .03396 | 2.0533 | .00913 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5147.2** | **64963.** | **4020.1** |
| Stddev | 21.6 | 51. | 16.4 |
| %RSD | .41875 | .07807 | .40769 |
| #1 | 5162.5 | 64927. | 4031.7 |
| #2 | 5132.0 | 64999. | 4008.5 |

Sample Name: 280-41987-A-6-A  Acquired: 5/16/2013 16:40:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00305** | **5.5058** | **.12386** | **.99711** | **.22597** | **.00118** | **.00319** | **146.18** | **.00919** |
| Stddev | .00066 | .0153 | .00229 | .00310 | .00129 | .00008 | .00008 | .18 | .00010 |
| %RSD | 21.647 | .27726 | 1.8480 | .31063 | .57070 | 6.6788 | 2.4369 | .12083 | 1.1063 |
| #1 | .00258 | 5.4950 | .12548 | .99492 | .22688 | .00124 | .00313 | 146.30 | .00912 |
| #2 | .00352 | 5.5166 | .12224 | .99930 | .22506 | .00113 | .00324 | 146.05 | .00926 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01357** | **.17343** | **.97610** | **31.088** | **71.809** | **.37023** | **95.759** | **.75374** | **.04255** |
| Stddev | .00001 | .00076 | .00095 | .042 | .230 | .00112 | .141 | .00048 | .00071 |
| %RSD | .09166 | .43932 | .09713 | .13479 | .32012 | .30213 | .14726 | .06366 | 1.6712 |
| #1 | .01358 | .17289 | .97677 | 31.118 | 71.971 | .36944 | 95.858 | .75408 | .04205 |
| #2 | .01356 | .17397 | .97543 | 31.058 | 71.646 | .37102 | 95.659 | .75340 | .04306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1454.0** | **.32067** | **9.3757** | **.03973** | **584.38** | **.04345** | **1.2050** | **14.640** | **.05229** |
| Stddev | 2.1 | .00060 | .0352 | .00044 | 1.97 | .00073 | .0103 | .010 | .00113 |
| %RSD | .14125 | .18701 | .37588 | 1.1140 | .33698 | 1.6876 | .85071 | .07047 | 2.1614 |
| #1 | 1455.5 | .32024 | 9.3508 | .03942 | 582.99 | .04397 | 1.1977 | 14.633 | .05309 |
| #2 | 1452.6 | .32109 | 9.4007 | .04004 | 585.77 | .04293 | 1.2122 | 14.648 | .05149 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4648** | **.01342** | **.14129** | **-.00145** | **-.00498** | **.03913** | **1.4023** | **.00599** |
| Stddev | .0048 | .00019 | .00010 | .00012 | .01310 | .00053 | .0043 | .00205 |
| %RSD | .33067 | 1.4115 | .06767 | 8.4263 | 262.87 | 1.3476 | .30455 | 34.134 |
| #1 | 1.4682 | .01329 | .14122 | -.00137 | .00428 | .03951 | 1.4053 | .00455 |
| #2 | 1.4613 | .01356 | .14135 | -.00154 | -.01425 | .03876 | 1.3992 | .00744 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4923.0** | **62830.** | **3906.3** |
| Stddev | 8.2 | 280. | 33.6 |
| %RSD | .16572 | .44601 | .85954 |
| #1 | 4928.7 | 62631. | 3882.5 |
| #2 | 4917.2 | 63028. | 3930.0 |

Sample Name: 280-41987-A-7-A@5 Acquired: 5/16/2013 16:43:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173462 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00143** | **4.2048** | **.01314** | **.32806** | **.08475** | **-.00112** | **.02493** | **47.623** | **.00051** |
| Stddev | .00054 | .0034 | .00204 | .00440 | .00094 | .00007 | .00125 | .276 | .00008 |
| %RSD | 37.953 | .08157 | 15.498 | 1.3403 | 1.1049 | 5.8639 | 5.0098 | .58043 | 15.696 |
| #1 | .00182 | 4.2073 | .01458 | .33117 | .08541 | -.00116 | .02404 | 47.818 | .00057 |
| #2 | .00105 | 4.2024 | .01170 | .32495 | .08409 | -.00107 | .02581 | 47.427 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00490** | **.04966** | **.24347** | **11.303** | **24.372** | **.18989** | **33.918** | **.24200** | **.04450** |
| Stddev | .00043 | .00031 | .00138 | .033 | .211 | .00239 | .109 | .00103 | .00024 |
| %RSD | 8.8682 | .62886 | .56793 | .29394 | .86519 | 1.2604 | .31988 | .42713 | .54755 |
| #1 | .00521 | .04988 | .24249 | 11.279 | 24.522 | .19158 | 33.841 | .24127 | .04467 |
| #2 | .00459 | .04944 | .24444 | 11.326 | 24.223 | .18819 | 33.995 | .24273 | .04432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **593.72** | **.10794** | **1.1884** | F **-.01285** | **139.83** | **.00301** | **.00283** | **8.0005** | **.02146** |
| Stddev | 3.49 | .00162 | .0154 | .00129 | 1.73 | .00155 | .00059 | .0408 | .00075 |
| %RSD | .58848 | 1.5038 | 1.2922 | 10.029 | 1.2340 | 51.335 | 20.937 | .51039 | 3.4951 |
| #1 | 596.19 | .10909 | 1.1992 | -.01194 | 141.05 | .00192 | .00241 | 7.9717 | .02199 |
| #2 | 591.25 | .10680 | 1.1775 | -.01376 | 138.61 | .00411 | .00325 | 8.0294 | .02093 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | 200.00 | | | | | |
| Low Limit | 10.000 | | | -.00900 | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.79102** | **.00442** | **5.3068** | **-.00154** | **-.02290** | **.00932** | **.69115** | **.01101** |
| Stddev | .00522 | .00131 | .0206 | .00195 | .00399 | .00004 | .00202 | .00039 |
| %RSD | .65929 | 29.566 | .38803 | 126.75 | 17.444 | .38765 | .29229 | 3.5150 |
| #1 | .79471 | .00349 | 5.2922 | -.00016 | -.02572 | .00930 | .68972 | .01074 |
| #2 | .78733 | .00534 | 5.3214 | -.00292 | -.02007 | .00935 | .69258 | .01128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5141.9** | **65008.** | **3991.4** |
| Stddev | 57.8 | 31. | 42.7 |
| %RSD | 1.1241 | .04827 | 1.0694 |
| #1 | 5101.0 | 64986. | 3961.2 |
| #2 | 5182.7 | 65031. | 4021.6 |

Sample Name: 280-41794-N-1-A Acquired: 5/16/2013 16:46:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172636 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **-.01082** | **.01731** | **.28163** | **.27056** | **-.00015** | **-.00261** | **120.28** | **.00016** |
| Stddev | .00005 | .00039 | .00099 | .00115 | .00029 | .00001 | .00038 | .19 | .00022 |
| %RSD | 3.2080 | 3.5618 | 5.7198 | .40934 | .10689 | 9.9380 | 14.456 | .16048 | 140.74 |
| #1 | .00144 | -.01055 | .01661 | .28244 | .27036 | -.00013 | -.00234 | 120.14 | .00000 |
| #2 | .00151 | -.01109 | .01801 | .28081 | .27077 | -.00016 | -.00288 | 120.42 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **.00040** | **-.00012** | **15.483** | **11.043** | **.03656** | **33.712** | **.53418** | **.00035** |
| Stddev | .00012 | .00018 | .00020 | .001 | .033 | .00036 | .086 | .00218 | .00020 |
| %RSD | 13.607 | 45.082 | 164.71 | .00339 | .29772 | .98749 | .25550 | .40726 | 58.902 |
| #1 | .00099 | .00027 | -.00027 | 15.484 | 11.019 | .03630 | 33.651 | .53264 | .00020 |
| #2 | .00082 | .00053 | .00002 | 15.483 | 11.066 | .03681 | 33.773 | .53572 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.156** | **.00328** | **.91464** | **.00331** | **13.104** | **-.00056** | **.00020** | **19.176** | **.00007** |
| Stddev | .021 | .00001 | .00104 | .00208 | .030 | .00040 | .00335 | .017 | .00096 |
| %RSD | .04484 | .37470 | .11376 | 62.900 | .22996 | 71.193 | 1706.0 | .08902 | 1292.9 |
| #1 | 46.170 | .00329 | .91391 | .00184 | 13.126 | -.00028 | .00256 | 19.188 | .00075 |
| #2 | 46.141 | .00327 | .91538 | .00478 | 13.083 | -.00085 | -.00217 | 19.163 | -.00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48364** | **.00371** | **.00053** | **-.00024** | **-.04805** | **-.00018** | **.00636** | **.00025** |
| Stddev | .00116 | .00025 | .00020 | .00057 | .01336 | .00039 | .00022 | .00124 |
| %RSD | .23954 | 6.6661 | 38.720 | 233.49 | 27.797 | 221.05 | 3.4637 | 485.67 |
| #1 | .48282 | .00353 | .00038 | -.00065 | -.03861 | .00010 | .00652 | -.00062 |
| #2 | .48446 | .00388 | .00067 | .00016 | -.05750 | -.00046 | .00621 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5170.9** | **64513.** | **3921.3** |
| Stddev | 6.6 | 198. | 6.5 |
| %RSD | .12745 | .30674 | .16695 |
| #1 | 5175.6 | 64652. | 3925.9 |
| #2 | 5166.3 | 64373. | 3916.6 |

Sample Name: sd 280-41794-N-1-A@5 Acquired: 5/16/2013 16:49:11 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172636 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **-.00135** | **.00304** | **.05622** | **.05437** | **-.00007** | **-.00185** | **23.982** | **.00022** |
| Stddev | .00043 | .00014 | .00128 | .00082 | .00055 | .00008 | .00088 | .094 | .00019 |
| %RSD | 47.783 | 10.606 | 42.219 | 1.4518 | 1.0095 | 108.92 | 47.668 | .39229 | 87.323 |
| #1 | .00060 | -.00124 | .00213 | .05680 | .05476 | -.00013 | -.00123 | 24.049 | .00008 |
| #2 | .00121 | -.00145 | .00395 | .05564 | .05398 | -.00002 | -.00247 | 23.916 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00036** | **.00001** | **3.1317** | **2.3369** | **.00964** | **6.8508** | **.10873** | **-.00038** |
| Stddev | .00010 | .00012 | .00008 | .0034 | .0468 | .00088 | .0090 | .00013 | .00018 |
| %RSD | 27.042 | 34.125 | 764.27 | .10735 | 2.0035 | 9.1342 | .13109 | .11717 | 47.482 |
| #1 | .00031 | .00027 | -.00005 | 3.1341 | 2.3038 | .01026 | 6.8445 | .10864 | -.00051 |
| #2 | .00046 | .00044 | .00007 | 3.1293 | 2.3701 | .00902 | 6.8572 | .10882 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.9208** | **.00077** | **.18130** | **.00287** | **2.5739** | **-.00191** | **.00104** | **3.7542** | **-.00051** |
| Stddev | .0921 | .00009 | .00145 | .00126 | .0057 | .00156 | .00128 | .0208 | .00061 |
| %RSD | 1.0319 | 12.193 | .79868 | 43.972 | .22273 | 81.727 | 122.35 | .55398 | 119.61 |
| #1 | 8.9859 | .00071 | .18232 | .00376 | 2.5779 | -.00302 | .00194 | 3.7689 | -.00095 |
| #2 | 8.8557 | .00084 | .18027 | .00198 | 2.5698 | -.00081 | .00014 | 3.7395 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09748** | **.00190** | **-.00047** | **-.00179** | **-.03483** | **-.00075** | **.00394** | **.00104** |
| Stddev | .00037 | .00001 | .00005 | .00030 | .00712 | .00031 | .00061 | .00208 |
| %RSD | .38209 | .48087 | 11.154 | 16.577 | 20.450 | 41.756 | 15.432 | 201.18 |
| #1 | .09774 | .00191 | -.00051 | -.00200 | -.03987 | -.00053 | .00437 | .00251 |
| #2 | .09721 | .00190 | -.00043 | -.00158 | -.02979 | -.00097 | .00351 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5303.8** | **66105.** | **3949.2** |
| Stddev | 2.8 | 63. | 29.1 |
| %RSD | .05322 | .09524 | .73802 |
| #1 | 5305.8 | 66061. | 3928.6 |
| #2 | 5301.8 | 66150. | 3969.8 |

Sample Name: 280-41794-N-1-B MS  Acquired: 5/16/2013 16:51:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172636 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05500** | **1.9222** | **1.0127** | **1.3386** | **2.2819** | **.04758** | **2.0094** | **165.29** | **.10313** |
| Stddev | .00004 | .0007 | .0036 | .0007 | .0205 | .00006 | .0072 | 1.21 | .00032 |
| %RSD | .06426 | .03542 | .35048 | .04911 | .89753 | .12116 | .36032 | .73131 | .30718 |
| #1 | .05498 | 1.9217 | 1.0102 | 1.3381 | 2.2964 | .04762 | 2.0043 | 166.15 | .10336 |
| #2 | .05503 | 1.9227 | 1.0152 | 1.3390 | 2.2674 | .04753 | 2.0145 | 164.44 | .10291 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49805** | **.19541** | **.24401** | **15.948** | **63.017** | **1.0760** | **81.665** | **1.0151** | **.96380** |
| Stddev | .00015 | .00031 | .00098 | .144 | .476 | .0087 | .239 | .0032 | .00075 |
| %RSD | .03079 | .16034 | .40332 | .90261 | .75466 | .81127 | .29268 | .31586 | .07780 |
| #1 | .49816 | .19519 | .24332 | 16.049 | 63.353 | 1.0822 | 81.496 | 1.0128 | .96327 |
| #2 | .49794 | .19563 | .24471 | 15.846 | 62.681 | 1.0698 | 81.834 | 1.0174 | .96433 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **98.352** | **.48411** | **11.431** | **.49446** | **13.016** | **.51452** | **2.0997** | **28.447** | **1.9059** |
| Stddev | .722 | .00014 | .012 | .00132 | .012 | .00108 | .0101 | .086 | .0047 |
| %RSD | .73445 | .02905 | .10118 | .26608 | .09233 | .21061 | .48040 | .30321 | .24701 |
| #1 | 98.863 | .48421 | 11.439 | .49539 | 13.007 | .51376 | 2.1068 | 28.508 | 1.9025 |
| #2 | 97.841 | .48401 | 11.423 | .49353 | 13.024 | .51529 | 2.0925 | 28.386 | 1.9092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5068** | **1.0436** | **1.0054** | **1.8982** | **2.0019** | **.49038** | **.48500** | **.47155** |
| Stddev | .0095 | .0023 | .0045 | .0005 | .0427 | .00183 | .00060 | .00416 |
| %RSD | .63398 | .22072 | .44647 | .02454 | 2.1329 | .37332 | .12400 | .88274 |
| #1 | 1.5135 | 1.0420 | 1.0022 | 1.8985 | 1.9717 | .48908 | .48457 | .47449 |
| #2 | 1.5000 | 1.0452 | 1.0085 | 1.8979 | 2.0321 | .49167 | .48542 | .46861 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5098.3** | **63448.** | **3879.5** |
| Stddev | 12.8 | 110. | 32.6 |
| %RSD | .25175 | .17389 | .83971 |
| #1 | 5107.4 | 63527. | 3856.4 |
| #2 | 5089.2 | 63370. | 3902.5 |

Sample Name: 280-41794-N-1-C MSD Acquired: 5/16/2013 16:53:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172636 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05482** | **1.9209** | **1.0106** | **1.3389** | **2.2886** | **.04755** | **2.0080** | **166.30** | **.10294** |
| Stddev | .00021 | .0047 | .0033 | .0068 | .0010 | .00001 | .0019 | .03 | .00030 |
| %RSD | .38199 | .24388 | .32823 | .51055 | .04532 | .02908 | .09484 | .02009 | .29345 |
| #1 | .05467 | 1.9176 | 1.0083 | 1.3340 | 2.2893 | .04756 | 2.0067 | 166.28 | .10273 |
| #2 | .05496 | 1.9243 | 1.0130 | 1.3437 | 2.2879 | .04754 | 2.0094 | 166.32 | .10315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49770** | **.19461** | **.24524** | **16.053** | **63.116** | **1.0774** | **82.172** | **1.0226** | **.95751** |
| Stddev | .00155 | .00098 | .00215 | .015 | .088 | .0007 | .425 | .0052 | .00243 |
| %RSD | .31106 | .50280 | .87671 | .09245 | .14011 | .06262 | .51739 | .50644 | .25335 |
| #1 | .49661 | .19392 | .24372 | 16.043 | 63.178 | 1.0769 | 81.872 | 1.0190 | .95579 |
| #2 | .49879 | .19530 | .24676 | 16.064 | 63.053 | 1.0778 | 82.473 | 1.0263 | .95922 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **97.997** | **.48318** | **11.433** | **.49178** | **13.036** | **.51366** | **2.0935** | **28.431** | **1.8953** |
| Stddev | .049 | .00089 | .032 | .00215 | .034 | .00227 | .0062 | .127 | .0047 |
| %RSD | .05018 | .18484 | .27645 | .43792 | .25811 | .44137 | .29548 | .44524 | .24649 |
| #1 | 98.032 | .48255 | 11.411 | .49026 | 13.012 | .51206 | 2.0891 | 28.521 | 1.8920 |
| #2 | 97.962 | .48382 | 11.456 | .49330 | 13.060 | .51526 | 2.0979 | 28.342 | 1.8986 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5129** | **1.0486** | **1.0090** | **1.8884** | **2.0741** | **.49182** | **.48679** | **.47142** |
| Stddev | .0015 | .0087 | .0050 | .0049 | .0135 | .00211 | .00153 | .00554 |
| %RSD | .09785 | .83113 | .49913 | .25731 | .64982 | .42989 | .31413 | 1.1760 |
| #1 | 1.5119 | 1.0424 | 1.0055 | 1.8849 | 2.0646 | .49032 | .48571 | .47534 |
| #2 | 1.5140 | 1.0548 | 1.0126 | 1.8918 | 2.0837 | .49331 | .48787 | .46750 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5097.8** | **63321.** | **3899.7** |
| Stddev | 18.6 | 134. | 8.4 |
| %RSD | .36388 | .21206 | .21516 |
| #1 | 5110.9 | 63416. | 3893.8 |
| #2 | 5084.7 | 63226. | 3905.7 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 16:55:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **50.244** | **-.00117** | **.00395** | **.00062** | **-.00000** | **.99257** | **.00981** | **-.00061** | **.00214** | **.00004** | **-.00235** | **48.452** |
| Stddev | .00099 | .317 | .00227 | .00020 | .00032 | .00007 | .00389 | .01096 | .00008 | .00010 | .00005 | .00004 | .211 |
| %RSD | 1214.4 | .63012 | 194.05 | 4.9748 | 50.737 | 7308.6 | .39191 | 111.71 | 12.372 | 4.4724 | 134.64 | 1.6197 | .43541 |
| #1 | .00062 | 50.468 | .00043 | .00409 | .00040 | -.00005 | .98982 | .01756 | -.00066 | .00221 | .00008 | -.00233 | 48.303 |
| #2 | -.00078 | 50.020 | -.00277 | .00381 | .00084 | .00005 | .99532 | .00206 | -.00055 | .00208 | .00000 | -.00238 | 48.601 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24931** | **-.00097** | **.01529** | **-.00019** | **-.00191** | **262.29** | **.00146** | **.00766** | **.00037** | **5.0474** | **.00015** | **.00535** | **.01621** |
| Stddev | .00840 | .00240 | .00006 | .00013 | .00045 | 1.60 | .00023 | .00195 | .00117 | .0202 | .00043 | .00012 | .00847 |
| %RSD | 3.3678 | 246.69 | .40588 | 66.891 | 23.308 | .60921 | 16.064 | 25.488 | 317.50 | .40046 | 286.09 | 2.3160 | 52.227 |
| #1 | .25525 | .00072 | .01534 | -.00028 | -.00160 | 263.42 | .00129 | .00904 | .00119 | 5.0331 | .00045 | .00526 | .02219 |
| #2 | .24338 | -.00267 | .01525 | -.00010 | -.00223 | 261.16 | .00163 | .00628 | -.00046 | 5.0617 | -.00015 | .00543 | .01022 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00052** | **5.2157** | **.00415** | **-.00378** | **10.166** | **-.00110** | **.00287** | **-.05894** |
| Stddev | .00018 | .00013 | .0087 | .00027 | .00146 | .056 | .00058 | .00020 | .00139 |
| %RSD | 25.665 | 24.986 | .16685 | 6.4098 | 38.607 | .55086 | 53.139 | 7.0240 | 2.3613 |
| #1 | .00085 | .00061 | 5.2218 | .00396 | -.00481 | 10.206 | -.00151 | .00273 | -.05795 |
| #2 | .00059 | .00043 | 5.2095 | .00434 | -.00275 | 10.127 | -.00069 | .00301 | -.05992 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5228.1** | **63956.** | **3909.5** |
| Stddev | 27.4 | 509. | 43.9 |
| %RSD | .52345 | .79549 | 1.1229 |
| #1 | 5208.7 | 63596. | 3878.5 |
| #2 | 5247.4 | 64316. | 3940.6 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 16:58:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51543** | **.50243** | **.97687** | **.51751** | **.49986** | **.46939** | **.00227** | **4.9024** | **.50130** | **.51224** | **.48676** | **.48493** | **2.3305** |
| Stddev | .00081 | .00083 | .00490 | .00056 | .00103 | .00196 | .00129 | .0051 | .00017 | .00108 | .00046 | .00184 | .0119 |
| %RSD | .15751 | .16503 | .50173 | .10891 | .20626 | .41808 | 56.603 | .10481 | .03302 | .21113 | .09435 | .38004 | .51092 |
| #1 | .51601 | .50302 | .98033 | .51711 | .50059 | .47078 | .00319 | 4.8987 | .50118 | .51147 | .48708 | .48363 | 2.3390 |
| #2 | .51486 | .50184 | .97340 | .51791 | .49913 | .46800 | .00136 | 4.9060 | .50142 | .51300 | .48643 | .48624 | 2.3221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.613** | **1.0378** | **19.600** | **.50323** | **.47821** | **5.1685** | **.49889** | **1.0166** | **1.0114** | **-.00781** | **1.0108** | **1.0327** | **4.7146** |
| Stddev | .079 | .0018 | .044 | .00083 | .00188 | .0326 | .00182 | .0047 | .0028 | .00048 | .0056 | .0048 | .0097 |
| %RSD | .15342 | .16843 | .22509 | .16565 | .39268 | .63068 | .36489 | .46320 | .27918 | 6.1842 | .54861 | .46524 | .20598 |
| #1 | 51.669 | 1.0390 | 19.569 | .50264 | .47688 | 5.1916 | .49761 | 1.0132 | 1.0094 | -.00747 | 1.0069 | 1.0293 | 4.7077 |
| #2 | 51.557 | 1.0365 | 19.631 | .50382 | .47954 | 5.1455 | .50018 | 1.0199 | 1.0133 | -.00815 | 1.0147 | 1.0361 | 4.7214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95561** | **.51758** | **.00083** | **.49991** | **.96899** | **-.03511** | **.48519** | **.49333** | **.48414** |
| Stddev | .00383 | .00040 | .00185 | .00132 | .00201 | .02077 | .00013 | .00078 | .00458 |
| %RSD | .40071 | .07649 | 222.02 | .26460 | .20795 | 59.157 | .02608 | .15761 | .94628 |
| #1 | .95290 | .51786 | .00214 | .49898 | .96756 | -.04980 | .48510 | .49278 | .48090 |
| #2 | .95831 | .51730 | -.00048 | .50085 | .97041 | -.02043 | .48528 | .49388 | .48738 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5335.3** | **66590.** | **3982.0** |
| Stddev | 5.2 | 57. | 10.8 |
| %RSD | .09767 | .08546 | .27098 |
| #1 | 5339.0 | 66550. | 3974.3 |
| #2 | 5331.6 | 66630. | 3989.6 |

Sample Name: CCB Acquired: 5/16/2013 17:00:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00169** | **-.00012** | **.00327** | W **.00194** | **-.00008** | **-.00001** | **-.00038** | **-.00136** | **.00011** | **.00018** | **-.00010** |
| Stddev | .00035 | .00037 | .00034 | .00030 | .00025 | .00003 | .00062 | .00016 | .00009 | .00010 | .00025 |
| %RSD | 20.730 | 312.29 | 10.297 | 15.632 | 316.27 | 284.70 | 163.67 | 12.045 | 89.927 | 56.010 | 255.11 |
| #1 | .00144 | .00014 | .00303 | .00173 | -.00025 | .00001 | -.00082 | -.00147 | .00017 | .00026 | .00008 |
| #2 | .00194 | -.00038 | .00351 | .00216 | .00010 | -.00003 | .00006 | -.00124 | .00004 | .00011 | -.00027 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00156 | | | | | | | |
| Low Limit | -.00093 | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00135** | **-.00597** | **.13970** | W **-.00309** | **.00176** | **-.00016** | **-.00011** | F **.22216** | **-.00044** | **.00132** | **.00016** |
| Stddev | .00063 | .00598 | .04677 | .00004 | .00029 | .00002 | .00002 | .02249 | .00013 | .00122 | .00053 |
| %RSD | 47.100 | 100.18 | 33.479 | 1.2225 | 16.286 | 13.111 | 18.524 | 10.123 | 29.814 | 92.051 | 336.60 |
| #1 | -.00090 | -.01020 | .10663 | -.00307 | .00155 | -.00014 | -.00009 | .23807 | -.00035 | .00046 | -.00022 |
| #2 | -.00180 | -.00174 | .17277 | -.00312 | .00196 | -.00017 | -.00012 | .20626 | -.00054 | .00218 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01408** | **-.00126** | **-.00149** | **.01115** | **.00058** | **.00009** | **.00350** | **-.00009** | **-.00087** | **.00754** | **-.00087** |
| Stddev | .00318 | .00040 | .00112 | .00771 | .00073 | .00009 | .00002 | .00028 | .00069 | .00022 | .00029 |
| %RSD | 22.587 | 32.113 | 74.813 | 69.101 | 126.20 | 105.51 | .51025 | 305.06 | 79.384 | 2.8817 | 33.829 |
| #1 | -.01183 | -.00097 | -.00228 | .01660 | .00006 | .00016 | .00349 | -.00029 | -.00137 | .00739 | -.00108 |
| #2 | -.01633 | -.00154 | -.00070 | .00570 | .00110 | .00002 | .00351 | .00011 | -.00038 | .00770 | -.00066 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00255** | **.00091** |
| Stddev | .00001 | .00263 |
| %RSD | .49395 | 289.90 |
| #1 | .00256 | -.00095 |
| #2 | .00254 | .00276 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5340.3** | **66751.** | **3955.5** |
| Stddev | 10.0 | 189. | 32.0 |
| %RSD | .18720 | .28305 | .80846 |
| #1 | 5333.2 | 66617. | 3932.9 |
| #2 | 5347.4 | 66885. | 3978.1 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 17:03:04 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01204** | **.10443** | **.01595** | **.10445** | **.01041** | **.00089** | **.10398** | **.19799** | **.00509** | **.01087** | **.00988** |
| Stddev | .00006 | .00017 | .00026 | .00026 | .00041 | .00012 | .00025 | .00352 | .00004 | .00032 | .00014 |
| %RSD | .51136 | .16323 | 1.6387 | .25143 | 3.9462 | 13.888 | .24318 | 1.7794 | .77828 | 2.9681 | 1.4573 |
| #1 | .01208 | .10431 | .01576 | .10427 | .01012 | .00080 | .10416 | .20048 | .00506 | .01110 | .00998 |
| #2 | .01200 | .10455 | .01613 | .10464 | .01070 | .00098 | .10380 | .19550 | .00512 | .01064 | .00978 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01379** | **.09579** | **3.3080** | **.00863** | **.20651** | **.01029** | **.01869** | W **1.2420** | **.04069** | **3.0049** | **.01032** |
| Stddev | .00031 | .00026 | .0596 | .00096 | .00173 | .00005 | .00004 | .0040 | .00015 | .0017 | .00078 |
| %RSD | 2.2747 | .27133 | 1.8022 | 11.136 | .83691 | .48278 | .21305 | .31840 | .36665 | .05795 | 7.5451 |
| #1 | .01401 | .09597 | 3.3502 | .00931 | .20529 | .01025 | .01866 | 1.2448 | .04080 | 3.0037 | .00977 |
| #2 | .01357 | .09561 | 3.2658 | .00795 | .20773 | .01033 | .01872 | 1.2392 | .04059 | 3.0061 | .01087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01548** | **.00914** | **.01354** | **.47793** | **.09488** | **.01083** | W **.01948** | **.00995** | **.01335** | F **.03920** | **.00881** |
| Stddev | .00525 | .00099 | .00192 | .00674 | .00084 | .00001 | .00013 | .00063 | .00027 | .01820 | .00050 |
| %RSD | 33.910 | 10.865 | 14.193 | 1.4110 | .88603 | .12798 | .69187 | 6.3196 | 2.0554 | 46.420 | 5.6310 |
| #1 | -.01920 | .00844 | .01218 | .48270 | .09547 | .01082 | .01957 | .01040 | .01354 | .02633 | .00846 |
| #2 | -.01177 | .00984 | .01490 | .47316 | .09429 | .01084 | .01938 | .00951 | .01315 | .05207 | .00917 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | .01500 | | | .06000 | |
| Range | | | | | | | 20.000% | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02234** | W **.01880** |
| Stddev | .00064 | .00259 |
| %RSD | 2.8609 | 13.778 |
| #1 | .02189 | .01697 |
| #2 | .02279 | .02063 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5443.1** | **67450.** | **4018.5** |
| Stddev | 16.4 | 180. | 22.1 |
| %RSD | .30194 | .26709 | .55098 |
| #1 | 5454.7 | 67577. | 4034.2 |
| #2 | 5431.5 | 67323. | 4002.9 |

Sample Name: MB 280-174231/1-A Acquired: 5/16/2013 17:05:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00164** | **.02072** | **.00261** | **.00065** | **-.00015** | **.00000** | **-.00031** | **.00137** | **-.00002** |
| Stddev | .00069 | .00021 | .00073 | .00045 | .00006 | .00012 | .00057 | .00445 | .00005 |
| %RSD | 41.850 | .99180 | 28.109 | 69.826 | 35.986 | 2712.6 | 183.78 | 324.47 | 322.22 |
| #1 | .00213 | .02057 | .00313 | .00033 | -.00019 | .00009 | .00009 | .00452 | .00002 |
| #2 | .00116 | .02086 | .00209 | .00097 | -.00011 | -.00008 | -.00071 | -.00178 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00015** | **-.00113** | **.00830** | **.08779** | **-.00245** | **.00404** | **-.00002** | **-.00021** |
| Stddev | .00001 | .00016 | .00014 | .00166 | .04788 | .00027 | .00026 | .00003 | .00009 |
| %RSD | 19.553 | 101.56 | 12.559 | 19.958 | 54.543 | 11.200 | 6.3616 | 178.34 | 43.617 |
| #1 | .00008 | .00004 | -.00123 | .00712 | .05393 | -.00226 | .00386 | -.00004 | -.00027 |
| #2 | .00006 | .00027 | -.00103 | .00947 | .12164 | -.00265 | .00423 | .00001 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19411** | **.00012** | F **.16534** | **.00181** | **-.01972** | **-.00076** | **.00339** | **.02074** | **.00030** |
| Stddev | .01370 | .00009 | .00026 | .00247 | .00342 | .00103 | .00260 | .00570 | .00020 |
| %RSD | 7.0581 | 75.184 | .15715 | 136.81 | 17.350 | 135.07 | 76.896 | 27.468 | 66.403 |
| #1 | .20379 | .00006 | .16552 | .00006 | -.02214 | -.00003 | .00154 | .02477 | .00016 |
| #2 | .18442 | .00019 | .16515 | .00356 | -.01730 | -.00149 | .00523 | .01671 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00024** | **-.00033** | **-.00145** | **-.00953** | **-.00039** | **.00251** | **-.00133** |
| Stddev | .00007 | .00039 | .00028 | .00025 | .03773 | .00003 | .00004 | .00159 |
| %RSD | 52.191 | 161.57 | 85.537 | 17.529 | 395.98 | 8.1328 | 1.5153 | 119.70 |
| #1 | .00018 | -.00003 | -.00053 | -.00163 | -.03621 | -.00042 | .00254 | -.00245 |
| #2 | .00008 | .00051 | -.00013 | -.00127 | .01715 | -.00037 | .00248 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5454.0** | **67576.** | **4020.7** |
| Stddev | 5.3 | 73. | 26.3 |
| %RSD | .09778 | .10830 | .65477 |
| #1 | 5450.3 | 67524. | 4002.1 |
| #2 | 5457.8 | 67627. | 4039.3 |

Sample Name: LCS 280-174231/2-A Acquired: 5/16/2013 17:07:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05449** | **1.9662** | **.98973** | **1.0523** | **2.0216** | **.04772** | **2.0232** | **48.318** | **.10318** |
| Stddev | .00032 | .0008 | .00099 | .0002 | .0035 | .00001 | .0030 | .045 | .00025 |
| %RSD | .58257 | .03995 | .10012 | .01571 | .17126 | .01583 | .14607 | .09300 | .24191 |
| #1 | .05471 | 1.9667 | .98903 | 1.0524 | 2.0191 | .04772 | 2.0253 | 48.286 | .10301 |
| #2 | .05426 | 1.9656 | .99043 | 1.0521 | 2.0240 | .04771 | 2.0211 | 48.350 | .10336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50440** | **.19506** | **.24305** | **.94261** | **52.363** | **1.0410** | **49.307** | **.50078** | **.95112** |
| Stddev | .00037 | .00045 | .00004 | .00378 | .001 | .0035 | .076 | .00084 | .00143 |
| %RSD | .07426 | .22898 | .01826 | .40082 | .00285 | .33299 | .15355 | .16727 | .15081 |
| #1 | .50413 | .19474 | .24302 | .94528 | 52.362 | 1.0385 | 49.360 | .50137 | .95011 |
| #2 | .50466 | .19537 | .24308 | .93994 | 52.364 | 1.0434 | 49.253 | .50018 | .95213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.560** | **.48692** | **10.637** | **.50078** | **-.02978** | **.51002** | **2.0989** | **9.6123** | **1.8855** |
| Stddev | .083 | .00130 | .002 | .00060 | .00210 | .00144 | .0041 | .0305 | .0095 |
| %RSD | .15511 | .26775 | .01458 | .11925 | 7.0513 | .28332 | .19654 | .31752 | .50249 |
| #1 | 53.619 | .48600 | 10.638 | .50035 | -.02829 | .50899 | 2.0960 | 9.6338 | 1.8788 |
| #2 | 53.502 | .48784 | 10.636 | .50120 | -.03126 | .51104 | 2.1018 | 9.5907 | 1.8922 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0413** | **1.0559** | **.99981** | **1.9396** | **2.0567** | **.48984** | **.49430** | **.46937** |
| Stddev | .0014 | .0013 | .00024 | .0067 | .0512 | .00056 | .00172 | .00198 |
| %RSD | .13541 | .12485 | .02404 | .34404 | 2.4915 | .11496 | .34837 | .42107 |
| #1 | 1.0403 | 1.0550 | .99998 | 1.9349 | 2.0205 | .49024 | .49552 | .47077 |
| #2 | 1.0423 | 1.0569 | .99964 | 1.9444 | 2.0930 | .48944 | .49308 | .46797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5294.3** | **65454.** | **3990.2** |
| Stddev | 5.3 | 131. | 1.6 |
| %RSD | .09939 | .20002 | .03946 |
| #1 | 5290.6 | 65361. | 3991.3 |
| #2 | 5298.0 | 65546. | 3989.1 |

Sample Name: 280-41837-A-1-E Acquired: 5/16/2013 17:10:11 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00127** | **.02499** | **.00340** | **.00829** | **.19204** | **.00041** | **-.00403** | **3.3970** | **.00002** |
| Stddev | .00023 | .00058 | .00117 | .00022 | .00030 | .00005 | .00093 | .0001 | .00002 |
| %RSD | 17.798 | 2.3204 | 34.491 | 2.6068 | .15464 | 12.281 | 23.008 | .00419 | 160.57 |
| #1 | .00111 | .02540 | .00423 | .00844 | .19225 | .00044 | -.00469 | 3.3969 | .00003 |
| #2 | .00143 | .02458 | .00257 | .00813 | .19183 | .00037 | -.00338 | 3.3971 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00521** | **.00026** | **-.00104** | **.03695** | **1.8348** | **-.00315** | **3.5074** | **.02086** | **-.00000** |
| Stddev | .00032 | .00007 | .00001 | .00074 | .0076 | .00155 | .0076 | .00007 | .00000 |
| %RSD | 6.1115 | 26.013 | 1.1803 | 2.0044 | .41613 | 49.263 | .21803 | .35099 | 5746.4 |
| #1 | .00543 | .00031 | -.00104 | .03747 | 1.8294 | -.00424 | 3.5128 | .02081 | .00000 |
| #2 | .00498 | .00022 | -.00103 | .03642 | 1.8402 | -.00205 | 3.5020 | .02091 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.320** | **.00439** | **.07677** | **.00147** | **.88547** | **-.00118** | **.00208** | **12.236** | **.00025** |
| Stddev | .126 | .00021 | .00035 | .00099 | .00077 | .00100 | .00302 | .021 | .00042 |
| %RSD | .81962 | 4.7090 | .44945 | 66.978 | .08734 | 85.059 | 144.93 | .17204 | 169.23 |
| #1 | 15.231 | .00424 | .07702 | .00217 | .88602 | -.00047 | -.00005 | 12.251 | -.00005 |
| #2 | 15.409 | .00453 | .07653 | .00078 | .88493 | -.00189 | .00422 | 12.221 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08531** | **.00095** | **-.00008** | **-.00139** | **-.04521** | **-.00104** | **.00808** | **.00053** |
| Stddev | .00003 | .00101 | .00030 | .00162 | .00274 | .00001 | .00029 | .00093 |
| %RSD | .03068 | 106.24 | 359.80 | 116.70 | 6.0721 | .67573 | 3.6394 | 176.47 |
| #1 | .08529 | .00166 | .00013 | -.00253 | -.04326 | -.00103 | .00787 | -.00013 |
| #2 | .08533 | .00024 | -.00029 | -.00024 | -.04715 | -.00104 | .00828 | .00119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5425.1** | **67600.** | **4058.2** |
| Stddev | 3.2 | 112. | 10.0 |
| %RSD | .05949 | .16629 | .24661 |
| #1 | 5427.4 | 67521. | 4065.2 |
| #2 | 5422.9 | 67680. | 4051.1 |

Sample Name: sd 280-41837-A-1-E@5 Acquired: 5/16/2013 17:12:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00162** | **.06783** | **.00181** | **.00289** | **.04013** | **.00077** | **-.00057** | **1.0660** | **.00086** |
| Stddev | .00084 | .00047 | .00253 | .00045 | .00026 | .00001 | .00024 | .0088 | .00008 |
| %RSD | 51.903 | .69036 | 139.76 | 15.615 | .63585 | 1.3028 | 41.720 | .82707 | 9.7561 |
| #1 | .00102 | .06750 | .00002 | .00257 | .04031 | .00078 | -.00040 | 1.0597 | .00080 |
| #2 | .00221 | .06816 | .00360 | .00320 | .03995 | .00076 | -.00074 | 1.0722 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00209** | **.00111** | **-.00049** | **.10995** | **.50694** | **.00057** | **.74543** | **.00627** | **.00067** |
| Stddev | .00000 | .00030 | .00020 | .00097 | .03963 | .00168 | .00051 | .00017 | .00014 |
| %RSD | .03032 | 26.759 | 40.300 | .88192 | 7.8184 | 295.89 | .06840 | 2.6635 | 20.115 |
| #1 | .00209 | .00090 | -.00063 | .10927 | .47891 | .00176 | .74579 | .00615 | .00058 |
| #2 | .00209 | .00132 | -.00035 | .11064 | .53497 | -.00062 | .74507 | .00638 | .00077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2670** | **.00161** | **.01805** | **.00355** | **.17047** | **.00034** | **.00368** | **2.3856** | **.00202** |
| Stddev | .0119 | .00043 | .00085 | .00132 | .00074 | .00076 | .00478 | .0084 | .00048 |
| %RSD | .36412 | 26.696 | 4.7030 | 37.082 | .43339 | 223.47 | 129.97 | .35281 | 23.707 |
| #1 | 3.2586 | .00131 | .01865 | .00448 | .16995 | -.00020 | .00030 | 2.3916 | .00236 |
| #2 | 3.2754 | .00192 | .01745 | .00262 | .17099 | .00088 | .00705 | 2.3797 | .00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01812** | **.00463** | **.00148** | **.00083** | **.06963** | **-.00026** | **.04436** | **.00326** |
| Stddev | .00014 | .00381 | .00006 | .00039 | .01212 | .00058 | .00079 | .00066 |
| %RSD | .79691 | 82.274 | 4.1735 | 46.644 | 17.402 | 227.68 | 1.7803 | 20.226 |
| #1 | .01802 | .00732 | .00152 | .00056 | .06106 | .00016 | .04381 | .00373 |
| #2 | .01823 | .00194 | .00144 | .00110 | .07820 | -.00067 | .04492 | .00279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5419.5** | **67007.** | **4026.4** |
| Stddev | 2.7 | 617. | 17.9 |
| %RSD | .05059 | .92112 | .44480 |
| #1 | 5417.6 | 67443. | 4039.1 |
| #2 | 5421.5 | 66570. | 4013.8 |

Sample Name: 280-41837-A-1-F MS  Acquired: 5/16/2013 17:15:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05452** | **1.9809** | **.98943** | **1.0603** | **2.2191** | **.04814** | **2.0176** | **51.543** | **.10284** |
| Stddev | .00037 | .0040 | .00236 | .0018 | .0195 | .00010 | .0022 | .533 | .00000 |
| %RSD | .68434 | .20273 | .23811 | .17144 | .87808 | .21083 | .11136 | 1.0351 | .00294 |
| #1 | .05426 | 1.9781 | .99110 | 1.0590 | 2.2053 | .04821 | 2.0192 | 51.165 | .10284 |
| #2 | .05479 | 1.9837 | .98777 | 1.0616 | 2.2329 | .04807 | 2.0160 | 51.920 | .10284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50831** | **.19531** | **.24077** | **.95953** | **53.805** | **1.0396** | **52.429** | **.51839** | **.95053** |
| Stddev | .00088 | .00040 | .00073 | .00338 | .447 | .0145 | .003 | .00031 | .00144 |
| %RSD | .17226 | .20652 | .30519 | .35245 | .83056 | 1.3925 | .00544 | .06064 | .15105 |
| #1 | .50770 | .19559 | .24025 | .96192 | 53.489 | 1.0293 | 52.427 | .51861 | .95154 |
| #2 | .50893 | .19502 | .24129 | .95714 | 54.121 | 1.0498 | 52.431 | .51816 | .94951 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.527** | **.49061** | **10.457** | **.49940** | **.91705** | **.51004** | **2.1025** | **22.075** | **1.9025** |
| Stddev | .167 | .00026 | .003 | .00054 | .00104 | .00121 | .0008 | .104 | .0003 |
| %RSD | .24402 | .05358 | .02398 | .10787 | .11395 | .23745 | .03676 | .47288 | .01353 |
| #1 | 68.409 | .49079 | 10.455 | .49979 | .91779 | .50918 | 2.1020 | 22.001 | 1.9027 |
| #2 | 68.645 | .49042 | 10.458 | .49902 | .91631 | .51089 | 2.1031 | 22.149 | 1.9023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1238** | **1.0445** | **.99717** | **1.9328** | **2.0570** | **.48785** | **.49619** | **.46702** |
| Stddev | .0120 | .0009 | .00008 | .0010 | .0249 | .00018 | .00029 | .00116 |
| %RSD | 1.0685 | .08225 | .00773 | .05102 | 1.2115 | .03592 | .05897 | .24887 |
| #1 | 1.1153 | 1.0451 | .99722 | 1.9335 | 2.0746 | .48773 | .49598 | .46620 |
| #2 | 1.1323 | 1.0439 | .99711 | 1.9321 | 2.0394 | .48798 | .49640 | .46785 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5262.3** | **65616.** | **3996.8** |
| Stddev | 7.5 | 151. | 28.9 |
| %RSD | .14232 | .23006 | .72425 |
| #1 | 5267.6 | 65509. | 4017.3 |
| #2 | 5257.0 | 65723. | 3976.3 |

Sample Name: 280-41837-A-1-G MSD  Acquired: 5/16/2013 17:17:17  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05430** | **1.9701** | **.98310** | **1.0569** | **2.2049** | **.04795** | **2.0085** | **51.048** | **.10192** |
| Stddev | .00016 | .0069 | .00169 | .0026 | .0058 | .00031 | .0047 | .126 | .00004 |
| %RSD | .29963 | .34986 | .17180 | .24363 | .26207 | .64841 | .23250 | .24715 | .03515 |
| #1 | .05442 | 1.9653 | .98191 | 1.0551 | 2.2008 | .04817 | 2.0052 | 50.959 | .10189 |
| #2 | .05419 | 1.9750 | .98429 | 1.0587 | 2.2090 | .04773 | 2.0118 | 51.137 | .10194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50479** | **.19351** | **.24075** | **.96950** | **53.370** | **1.0359** | **52.095** | **.51576** | **.94425** |
| Stddev | .00084 | .00044 | .00075 | .00475 | .039 | .0021 | .010 | .00019 | .00289 |
| %RSD | .16615 | .22944 | .31268 | .48971 | .07234 | .20203 | .01862 | .03684 | .30597 |
| #1 | .50420 | .19320 | .24128 | .97285 | 53.398 | 1.0344 | 52.102 | .51563 | .94221 |
| #2 | .50538 | .19382 | .24021 | .96614 | 53.343 | 1.0373 | 52.088 | .51590 | .94630 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.179** | **.48718** | **10.406** | **.49535** | **.89762** | **.50826** | **2.0941** | **21.827** | **1.8931** |
| Stddev | .572 | .00107 | .023 | .00053 | .00678 | .00445 | .0047 | .221 | .0065 |
| %RSD | .83863 | .21927 | .22250 | .10632 | .75520 | .87487 | .22646 | 1.0119 | .34531 |
| #1 | 68.583 | .48643 | 10.390 | .49573 | .89283 | .50512 | 2.0974 | 21.983 | 1.8884 |
| #2 | 67.775 | .48794 | 10.422 | .49498 | .90241 | .51140 | 2.0907 | 21.671 | 1.8977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1136** | **1.0376** | **.99534** | **1.9274** | **1.9989** | **.48647** | **.49357** | **.46501** |
| Stddev | .0027 | .0017 | .00137 | .0062 | .0058 | .00076 | .00114 | .00553 |
| %RSD | .24499 | .16483 | .13796 | .31964 | .28834 | .15566 | .23162 | 1.1899 |
| #1 | 1.1116 | 1.0364 | .99437 | 1.9230 | 1.9948 | .48700 | .49277 | .46893 |
| #2 | 1.1155 | 1.0388 | .99631 | 1.9317 | 2.0029 | .48593 | .49438 | .46110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5274.6** | **65953.** | **3998.4** |
| Stddev | 7.4 | 100. | 2.2 |
| %RSD | .14097 | .15137 | .05527 |
| #1 | 5279.8 | 65883. | 3999.9 |
| #2 | 5269.3 | 66024. | 3996.8 |

Sample Name: 280-41883-D-2-C Acquired: 5/16/2013 17:19:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00080** | **.03281** | **.00122** | **.17853** | **.12292** | **-.00002** | **-.00484** | **82.451** | **.00056** |
| Stddev | .00010 | .00028 | .00058 | .00048 | .00082 | .00002 | .00110 | .272 | .00012 |
| %RSD | 12.890 | .86416 | 47.329 | .26750 | .66457 | 92.315 | 22.629 | .32961 | 21.556 |
| #1 | .00087 | .03301 | .00081 | .17819 | .12349 | -.00003 | -.00407 | 82.643 | .00047 |
| #2 | .00073 | .03261 | .00163 | .17887 | .12234 | -.00001 | -.00561 | 82.259 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.01345** | **.00146** | **.09572** | **5.2269** | **-.00038** | **23.432** | **.00284** | **.00440** |
| Stddev | .00026 | .00007 | .00018 | .00467 | .0036 | .00125 | .016 | .00003 | .00027 |
| %RSD | 80.127 | .49782 | 12.599 | 4.8763 | .06937 | 331.18 | .06831 | .96987 | 6.0437 |
| #1 | .00014 | .01340 | .00159 | .09902 | 5.2294 | -.00127 | 23.421 | .00286 | .00459 |
| #2 | .00052 | .01349 | .00133 | .09242 | 5.2243 | .00051 | 23.443 | .00282 | .00421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **39.103** | **.00733** | **.18080** | **.00159** | **15.771** | **-.00045** | **.00043** | **11.034** | **.00045** |
| Stddev | .153 | .00001 | .00006 | .00012 | .042 | .00078 | .00715 | .025 | .00010 |
| %RSD | .39182 | .10689 | .03248 | 7.4257 | .26558 | 173.48 | 1669.1 | .22503 | 21.946 |
| #1 | 39.212 | .00733 | .18084 | .00151 | 15.741 | -.00100 | .00548 | 11.052 | .00038 |
| #2 | 38.995 | .00734 | .18076 | .00167 | 15.800 | .00010 | -.00462 | 11.016 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72025** | **.00400** | **.00299** | **-.00067** | **-.02959** | **.00350** | **.00647** | **.00321** |
| Stddev | .00279 | .00002 | .00008 | .00225 | .00526 | .00052 | .00014 | .00307 |
| %RSD | .38751 | .52193 | 2.7650 | 334.97 | 17.765 | 14.982 | 2.1514 | 95.642 |
| #1 | .72223 | .00398 | .00305 | .00092 | -.02587 | .00313 | .00657 | .00537 |
| #2 | .71828 | .00401 | .00293 | -.00226 | -.03331 | .00387 | .00638 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5306.9** | **66186.** | **4026.3** |
| Stddev | .3 | 125. | 14.7 |
| %RSD | .00511 | .18891 | .36534 |
| #1 | 5306.7 | 66098. | 4015.9 |
| #2 | 5307.1 | 66275. | 4036.7 |

Sample Name: 280-41883-D-3-C Acquired: 5/16/2013 17:21:55 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.01040** | **.01672** | **.12935** | **.08572** | **-.00004** | **-.00139** | **45.896** | **.00032** |
| Stddev | .00049 | .00017 | .00051 | .00152 | .00131 | .00011 | .00327 | .423 | .00025 |
| %RSD | 39.251 | 1.6508 | 3.0605 | 1.1768 | 1.5338 | 294.57 | 234.18 | .92206 | 76.148 |
| #1 | .00160 | .01027 | .01636 | .13043 | .08665 | -.00012 | .00091 | 46.195 | .00050 |
| #2 | .00090 | .01052 | .01709 | .12828 | .08479 | .00004 | -.00370 | 45.597 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.01213** | **.00133** | **3.1905** | **3.6246** | **-.00029** | **13.436** | **3.1300** | **.00540** |
| Stddev | .00007 | .00022 | .00034 | .0291 | .0788 | .00025 | .011 | .0023 | .00002 |
| %RSD | 10.137 | 1.8174 | 25.502 | .91282 | 2.1726 | 87.141 | .08459 | .07226 | .27918 |
| #1 | .00074 | .01228 | .00157 | 3.2111 | 3.6802 | -.00047 | 13.428 | 3.1284 | .00539 |
| #2 | .00064 | .01197 | .00109 | 3.1700 | 3.5689 | -.00011 | 13.444 | 3.1316 | .00541 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.065** | **.00628** | **.44784** | **.00340** | **9.9577** | **-.00355** | **.00045** | **15.516** | **.00035** |
| Stddev | .231 | .00037 | .00042 | .00177 | .0549 | .00338 | .00188 | .083 | .00020 |
| %RSD | .92203 | 5.9190 | .09444 | 51.974 | .55183 | 95.236 | 415.58 | .53276 | 57.976 |
| #1 | 24.901 | .00602 | .44754 | .00215 | 9.9966 | -.00116 | .00178 | 15.574 | .00021 |
| #2 | 25.228 | .00654 | .44813 | .00465 | 9.9188 | -.00595 | -.00088 | 15.457 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42374** | **.00227** | **.00007** | **-.00292** | **-.03216** | **-.00015** | **.00726** | **.00258** |
| Stddev | .00439 | .00032 | .00037 | .00209 | .00531 | .00097 | .00029 | .00110 |
| %RSD | 1.0363 | 14.243 | 560.04 | 71.612 | 16.507 | 639.89 | 3.9489 | 42.557 |
| #1 | .42685 | .00250 | .00033 | -.00144 | -.02840 | .00053 | .00706 | .00336 |
| #2 | .42064 | .00204 | -.00019 | -.00440 | -.03591 | -.00084 | .00746 | .00180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5373.2** | **66615.** | **4083.3** |
| Stddev | 1.9 | 94. | 56.0 |
| %RSD | .03604 | .14092 | 1.3703 |
| #1 | 5371.9 | 66549. | 4043.7 |
| #2 | 5374.6 | 66681. | 4122.8 |

Sample Name: 280-41889-T-1-I Acquired: 5/16/2013 17:24:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174231 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **-.00195** | **.00907** | **.50925** | **.42706** | **-.00008** | **-.00576** | **202.22** | **.00014** |
| Stddev | .00014 | .00016 | .00138 | .00048 | .00009 | .00003 | .00355 | .40 | .00015 |
| %RSD | 25.270 | 8.4021 | 15.168 | .09487 | .02063 | 37.228 | 61.565 | .19586 | 107.72 |
| #1 | .00067 | -.00207 | .00810 | .50959 | .42712 | -.00010 | -.00325 | 201.94 | .00024 |
| #2 | .00047 | -.00184 | .01005 | .50891 | .42699 | -.00006 | -.00827 | 202.50 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **.00070** | **.00033** | **33.221** | **10.093** | **.05381** | **36.585** | **2.1310** | **-.00045** |
| Stddev | .00009 | .00007 | .00026 | .020 | .098 | .00163 | .172 | .0052 | .00002 |
| %RSD | 6.6583 | 9.4825 | 79.073 | .06023 | .96676 | 3.0229 | .47091 | .24564 | 5.2793 |
| #1 | .00128 | .00065 | .00051 | 33.207 | 10.024 | .05496 | 36.707 | 2.1347 | -.00043 |
| #2 | .00141 | .00074 | .00014 | 33.236 | 10.162 | .05266 | 36.463 | 2.1273 | -.00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **85.160** | **.00750** | **1.5265** | **.00349** | **24.563** | **-.00188** | **.00144** | **17.784** | **-.00027** |
| Stddev | .033 | .00035 | .0026 | .00019 | .033 | .00094 | .00389 | .030 | .00024 |
| %RSD | .03924 | 4.7013 | .17137 | 5.5306 | .13286 | 49.914 | 270.22 | .16776 | 87.899 |
| #1 | 85.136 | .00725 | 1.5246 | .00363 | 24.587 | -.00122 | -.00131 | 17.805 | -.00044 |
| #2 | 85.183 | .00775 | 1.5283 | .00336 | 24.540 | -.00254 | .00419 | 17.763 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59518** | **.01101** | **.00155** | **-.00218** | **-.01345** | **.00081** | **.00358** | **.00136** |
| Stddev | .00047 | .00260 | .00029 | .00035 | .00036 | .00012 | .00037 | .00099 |
| %RSD | .07864 | 23.621 | 18.881 | 16.182 | 2.6698 | 15.199 | 10.266 | 72.524 |
| #1 | .59485 | .01285 | .00134 | -.00193 | -.01370 | .00072 | .00332 | .00206 |
| #2 | .59551 | .00917 | .00175 | -.00243 | -.01319 | .00090 | .00384 | .00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5222.5** | **65231.** | **3974.4** |
| Stddev | 25.1 | 7. | 13.0 |
| %RSD | .48109 | .01070 | .32828 |
| #1 | 5204.7 | 65236. | 3983.6 |
| #2 | 5240.2 | 65226. | 3965.2 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 17:26:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **48.987** | **.00021** | **.00201** | **.00019** | **-.00003** | **.98066** | **.00449** | **-.00083** | **.00207** | **-.00011** | **-.00269** | **47.060** |
| Stddev | .00086 | .471 | .00014 | .00012 | .00001 | .00003 | .00355 | .00338 | .00007 | .00015 | .00023 | .00029 | .348 |
| %RSD | 455.63 | .96115 | 64.478 | 5.9813 | 7.2418 | 106.05 | .36160 | 75.257 | 9.0585 | 7.1926 | 208.85 | 10.635 | .73872 |
| #1 | .00080 | 49.320 | .00012 | .00192 | .00018 | -.00006 | .97816 | .00688 | -.00077 | .00218 | .00005 | -.00249 | 47.306 |
| #2 | -.00042 | 48.654 | .00031 | .00209 | .00020 | -.00001 | .98317 | .00210 | -.00088 | .00197 | -.00028 | -.00289 | 46.814 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12253** | **-.00265** | **.01180** | **-.00019** | **-.00195** | **256.67** | **.00125** | **.00993** | **.00071** | **4.9965** | **-.00066** | **.00656** | **.00609** |
| Stddev | .06686 | .00135 | .00348 | .00004 | .00017 | 2.53 | .00026 | .00226 | .00034 | .0060 | .00172 | .00256 | .00468 |
| %RSD | 54.564 | 50.877 | 29.478 | 20.978 | 8.6634 | .98570 | 20.625 | 22.770 | 48.426 | .11963 | 262.52 | 39.031 | 76.778 |
| #1 | .16981 | -.00360 | .00934 | -.00022 | -.00207 | 258.46 | .00106 | .00833 | .00047 | 5.0008 | .00056 | .00475 | .00940 |
| #2 | .07526 | -.00169 | .01426 | -.00016 | -.00183 | 254.88 | .00143 | .01153 | .00095 | 4.9923 | -.00187 | .00837 | .00278 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **.00045** | **5.1246** | **.00404** | **-.00424** | **9.9289** | **-.00141** | **.00305** | **-.06020** |
| Stddev | .00013 | .00038 | .0030 | .00085 | .00055 | .0301 | .00034 | .00004 | .00092 |
| %RSD | 11.749 | 85.225 | .05809 | 21.022 | 13.011 | .30314 | 24.253 | 1.3221 | 1.5332 |
| #1 | .00104 | .00072 | 5.1225 | .00344 | -.00463 | 9.9076 | -.00165 | .00308 | -.06085 |
| #2 | .00123 | .00018 | 5.1267 | .00464 | -.00385 | 9.9502 | -.00117 | .00302 | -.05955 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5303.1** | **65703.** | **4022.0** |
| Stddev | 22.1 | 102. | 45.7 |
| %RSD | .41617 | .15472 | 1.1360 |
| #1 | 5318.7 | 65631. | 3989.7 |
| #2 | 5287.5 | 65775. | 4054.3 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 17:29:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51522** | **.50137** | **.97516** | **.51608** | **.50065** | **.46981** | **.00229** | **4.8799** | **.50034** | **.51128** | **.48381** | **.48085** | **2.3140** |
| Stddev | .00145 | .00083 | .00098 | .00071 | .00015 | .00064 | .00165 | .0061 | .00023 | .00364 | .00032 | .00215 | .0144 |
| %RSD | .28098 | .16569 | .10091 | .13675 | .02981 | .13534 | 71.978 | .12488 | .04541 | .71169 | .06570 | .44640 | .62460 |
| #1 | .51624 | .50078 | .97446 | .51658 | .50075 | .47026 | .00112 | 4.8842 | .50017 | .51386 | .48359 | .48237 | 2.3243 |
| #2 | .51420 | .50196 | .97585 | .51558 | .50054 | .46936 | .00345 | 4.8755 | .50050 | .50871 | .48404 | .47933 | 2.3038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.797** | **1.0442** | **19.539** | **.50266** | **.47592** | **5.0570** | **.49719** | **1.0206** | **1.0094** | **-.03663** | **1.0044** | **1.0342** | **4.7166** |
| Stddev | .266 | .0013 | .032 | .00102 | .00110 | .0187 | .00066 | .0051 | .0038 | .00124 | .0025 | .0002 | .0232 |
| %RSD | .51294 | .12055 | .16559 | .20227 | .23128 | .36909 | .13349 | .50240 | .37658 | 3.3955 | .24718 | .01759 | .49186 |
| #1 | 51.985 | 1.0451 | 19.562 | .50337 | .47670 | 5.0702 | .49766 | 1.0243 | 1.0121 | -.03575 | 1.0062 | 1.0343 | 4.7330 |
| #2 | 51.609 | 1.0433 | 19.516 | .50194 | .47514 | 5.0438 | .49672 | 1.0170 | 1.0067 | -.03751 | 1.0027 | 1.0340 | 4.7002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95097** | **.51881** | **.00083** | **.49853** | **.96334** | **.00214** | **.48372** | **.49493** | **.48076** |
| Stddev | .00507 | .00154 | .00098 | .00032 | .00256 | .02245 | .00129 | .00116 | .00021 |
| %RSD | .53290 | .29609 | 118.29 | .06417 | .26610 | 1049.2 | .26620 | .23495 | .04266 |
| #1 | .95455 | .51990 | .00152 | .49876 | .96515 | -.01373 | .48463 | .49575 | .48061 |
| #2 | .94738 | .51772 | .00014 | .49831 | .96153 | .01801 | .48281 | .49411 | .48090 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5307.3** | **65963.** | **3958.8** |
| Stddev | 2.7 | 269. | 19.2 |
| %RSD | .05157 | .40800 | .48472 |
| #1 | 5309.2 | 65773. | 3945.3 |
| #2 | 5305.3 | 66154. | 3972.4 |

Sample Name: CCB Acquired: 5/16/2013 17:31:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **-.00025** | **.00315** | **.00055** | **-.00016** | **-.00002** | **-.00119** | **-.00302** | **-.00004** | **-.00024** | **-.00006** |
| Stddev | .00013 | .00020 | .00224 | .00104 | .00037 | .00010 | .00119 | .00406 | .00010 | .00012 | .00012 |
| %RSD | 17.768 | 79.244 | 71.207 | 190.32 | 235.62 | 472.61 | 99.883 | 134.64 | 267.56 | 52.226 | 211.95 |
| #1 | .00066 | -.00039 | .00156 | .00128 | -.00042 | -.00009 | -.00203 | -.00589 | -.00011 | -.00032 | -.00014 |
| #2 | .00085 | -.00011 | .00473 | -.00019 | .00011 | .00005 | -.00035 | -.00014 | .00003 | -.00015 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **-.00420** | **.05043** | **-.00260** | **.00024** | **-.00015** | **.00005** | W **.09873** | **-.00023** | **.00141** | **.00256** |
| Stddev | .00005 | .00091 | .07621 | .00114 | .00044 | .00004 | .00037 | .00710 | .00019 | .00079 | .00141 |
| %RSD | 4.2982 | 21.672 | 151.12 | 43.814 | 180.29 | 22.915 | 696.51 | 7.1957 | 82.119 | 55.725 | 55.129 |
| #1 | -.00105 | -.00356 | .10432 | -.00341 | -.00007 | -.00013 | -.00021 | .10375 | -.00037 | .00086 | .00356 |
| #2 | -.00112 | -.00484 | -.00346 | -.00180 | .00056 | -.00018 | .00032 | .09370 | -.00010 | .00197 | .00156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .09160 | | | |
| Low Limit | | | | | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03619** | **-.00212** | **.00026** | **-.00276** | **.00013** | **.00005** | **.00090** | **-.00021** | **-.00208** | **-.03326** | **-.00030** |
| Stddev | .00033 | .00119 | .00341 | .01998 | .00054 | .00009 | .00277 | .00012 | .00035 | .00282 | .00004 |
| %RSD | .89827 | 56.191 | 1290.3 | 722.74 | 420.69 | 166.70 | 305.95 | 55.992 | 16.638 | 8.4838 | 12.929 |
| #1 | -.03642 | -.00296 | -.00215 | .01136 | -.00026 | -.00001 | .00286 | -.00030 | -.00232 | -.03126 | -.00033 |
| #2 | -.03596 | -.00128 | .00267 | -.01689 | .00051 | .00012 | -.00105 | -.00013 | -.00183 | -.03525 | -.00027 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00233** | W **.00292** |
| Stddev | .00042 | .00009 |
| %RSD | 17.966 | 2.9194 |
| #1 | .00262 | .00286 |
| #2 | .00203 | .00298 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5311.2** | **65684.** | **3959.0** |
| Stddev | 6.5 | 329. | 37.8 |
| %RSD | .12211 | .50063 | .95544 |
| #1 | 5315.7 | 65452. | 3932.3 |
| #2 | 5306.6 | 65917. | 3985.7 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 17:33:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01178** | **.10307** | W **.01865** | **.10236** | **.01001** | **.00098** | **.10225** | **.19311** | **.00491** | **.01080** | **.01021** |
| Stddev | .00013 | .00047 | .00001 | .00071 | .00037 | .00007 | .00257 | .00188 | .00007 | .00045 | .00015 |
| %RSD | 1.1361 | .46001 | .06349 | .69588 | 3.6614 | 7.1366 | 2.5159 | .97413 | 1.3626 | 4.1626 | 1.4941 |
| #1 | .01169 | .10273 | .01864 | .10287 | .01027 | .00103 | .10406 | .19444 | .00496 | .01111 | .01010 |
| #2 | .01188 | .10340 | .01866 | .10186 | .00975 | .00093 | .10043 | .19178 | .00487 | .01048 | .01031 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01306** | **.08687** | **3.2599** | **.00927** | **.20623** | **.01020** | **.01848** | **1.1052** | **.04041** | **2.9903** | F **.01228** |
| Stddev | .00009 | .00067 | .0546 | .00165 | .00177 | .00005 | .00017 | .0031 | .00014 | .0105 | .00017 |
| %RSD | .65521 | .77148 | 1.6762 | 17.803 | .85797 | .51208 | .94377 | .28214 | .34784 | .35086 | 1.3930 |
| #1 | .01300 | .08639 | 3.2985 | .01044 | .20498 | .01024 | .01860 | 1.1074 | .04051 | 2.9977 | .01240 |
| #2 | .01312 | .08734 | 3.2213 | .00810 | .20748 | .01017 | .01836 | 1.1030 | .04031 | 2.9829 | .01216 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | | .00900 |
| Range | | | | | | | | | | | 30.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03925** | **.00885** | **.01781** | **.48128** | **.09503** | **.01063** | **.01675** | **.00973** | **.01385** | F **.03513** | **.00874** |
| Stddev | .00318 | .00221 | .00112 | .00843 | .00117 | .00003 | .00038 | .00035 | .00002 | .02721 | .00024 |
| %RSD | 8.0934 | 24.996 | 6.2687 | 1.7506 | 1.2327 | .27409 | 2.2811 | 3.5758 | .16985 | 77.441 | 2.6897 |
| #1 | -.04150 | .00728 | .01702 | .48724 | .09586 | .01061 | .01648 | .00998 | .01383 | .01589 | .00891 |
| #2 | -.03701 | .01041 | .01860 | .47533 | .09420 | .01065 | .01702 | .00948 | .01387 | .05437 | .00857 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02205** | **.01679** |
| Stddev | .00061 | .00196 |
| %RSD | 2.7509 | 11.673 |
| #1 | .02163 | .01818 |
| #2 | .02248 | .01541 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5383.7** | **66739.** | **3998.6** |
| Stddev | 13.8 | 374. | 32.9 |
| %RSD | .25702 | .56109 | .82252 |
| #1 | 5373.9 | 67004. | 4021.9 |
| #2 | 5393.5 | 66474. | 3975.4 |

Sample Name: MB 280-173670/1-A Acquired: 5/16/2013 17:36:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00180** | **.00229** | **.00328** | **-.00032** | **-.00020** | **-.00012** | **-.00042** | **.01017** | **.00005** |
| Stddev | .00004 | .00008 | .00209 | .00045 | .00016 | .00015 | .00122 | .00314 | .00015 |
| %RSD | 2.2551 | 3.3100 | 63.732 | 140.73 | 79.529 | 125.62 | 288.96 | 30.922 | 318.55 |
| #1 | .00183 | .00235 | .00476 | -.00064 | -.00009 | -.00001 | -.00129 | .01239 | .00015 |
| #2 | .00177 | .00224 | .00180 | -.00000 | -.00031 | -.00022 | .00044 | .00794 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00020** | **-.00105** | **.02534** | **.07810** | **-.00454** | **.00355** | **.00007** | **-.00033** |
| Stddev | .00005 | .00018 | .00020 | .00269 | .00371 | .00025 | .00106 | .00001 | .00016 |
| %RSD | 133.40 | 91.276 | 18.732 | 10.605 | 4.7438 | 5.4523 | 29.978 | 21.522 | 47.417 |
| #1 | -.00000 | .00007 | -.00119 | .02344 | .08072 | -.00471 | .00279 | .00006 | -.00022 |
| #2 | -.00007 | .00033 | -.00091 | .02724 | .07548 | -.00436 | .00430 | .00008 | -.00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07314** | **-.00025** | F **.19955** | **.00252** | **-.03984** | **-.00069** | **.00236** | **.04108** | **-.00061** |
| Stddev | .00106 | .00005 | .00140 | .00062 | .00322 | .00101 | .00701 | .01228 | .00054 |
| %RSD | 1.4518 | 19.559 | .70400 | 24.604 | 8.0929 | 146.60 | 296.88 | 29.884 | 88.334 |
| #1 | .07389 | -.00022 | .19856 | .00296 | -.04212 | .00003 | -.00259 | .04976 | -.00023 |
| #2 | .07239 | -.00029 | .20055 | .00208 | -.03756 | -.00140 | .00731 | .03240 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00481** | **-.00075** | **-.00187** | **-.03889** | **-.00052** | **.00254** | **-.00011** |
| Stddev | .00001 | .00086 | .00015 | .00103 | .00967 | .00007 | .00002 | .00483 |
| %RSD | 21.053 | 17.918 | 20.639 | 54.858 | 24.864 | 13.272 | .70037 | 4214.0 |
| #1 | .00005 | .00420 | -.00086 | -.00115 | -.03206 | -.00057 | .00253 | -.00353 |
| #2 | .00006 | .00541 | -.00064 | -.00260 | -.04573 | -.00047 | .00256 | .00330 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5409.5** | **67007.** | **4006.1** |
| Stddev | 10.0 | 383. | 14.3 |
| %RSD | .18499 | .57146 | .35731 |
| #1 | 5402.4 | 66736. | 4016.3 |
| #2 | 5416.5 | 67278. | 3996.0 |

Sample Name: LCS 280-173670/2-A Acquired: 5/16/2013 17:38:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05512** | **1.9808** | **.99507** | **1.0645** | **2.0339** | **.04811** | **2.0180** | **48.546** | **.10317** |
| Stddev | .00053 | .0027 | .00071 | .0008 | .0168 | .00037 | .0000 | .303 | .00002 |
| %RSD | .95680 | .13589 | .07125 | .07737 | .82414 | .76519 | .00161 | .62454 | .02324 |
| #1 | .05475 | 1.9789 | .99457 | 1.0640 | 2.0220 | .04785 | 2.0180 | 48.332 | .10319 |
| #2 | .05549 | 1.9827 | .99558 | 1.0651 | 2.0457 | .04837 | 2.0180 | 48.761 | .10315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50690** | **.19611** | **.24185** | **1.0351** | **52.602** | **1.0497** | **49.460** | **.50647** | **.95913** |
| Stddev | .00026 | .00045 | .00032 | .0028 | .311 | .0062 | .103 | .00062 | .00053 |
| %RSD | .05219 | .22914 | .13266 | .26936 | .59142 | .58593 | .20775 | .12192 | .05563 |
| #1 | .50709 | .19643 | .24208 | 1.0370 | 52.382 | 1.0454 | 49.533 | .50690 | .95950 |
| #2 | .50672 | .19579 | .24163 | 1.0331 | 52.822 | 1.0541 | 49.388 | .50603 | .95875 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.901** | **.48988** | **10.723** | **.50170** | **-.03558** | **.51733** | **2.1285** | **9.6274** | **1.9140** |
| Stddev | .282 | .00044 | .016 | .00110 | .00143 | .00292 | .0063 | .0485 | .0036 |
| %RSD | .52255 | .08976 | .14451 | .21899 | 4.0151 | .56399 | .29538 | .50412 | .18723 |
| #1 | 53.702 | .49019 | 10.734 | .50247 | -.03457 | .51526 | 2.1240 | 9.5931 | 1.9115 |
| #2 | 54.100 | .48956 | 10.712 | .50092 | -.03659 | .51939 | 2.1329 | 9.6617 | 1.9166 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0505** | **1.0519** | **1.0112** | **1.9450** | **2.0289** | **.49173** | **.49691** | **.47879** |
| Stddev | .0049 | .0010 | .0016 | .0057 | .0002 | .00083 | .00114 | .00370 |
| %RSD | .46258 | .09811 | .15784 | .29550 | .00812 | .16894 | .22968 | .77370 |
| #1 | 1.0470 | 1.0512 | 1.0124 | 1.9409 | 2.0290 | .49232 | .49772 | .47617 |
| #2 | 1.0539 | 1.0527 | 1.0101 | 1.9491 | 2.0287 | .49114 | .49610 | .48141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5268.8** | **65020.** | **3971.9** |
| Stddev | 19.3 | 199. | 32.9 |
| %RSD | .36688 | .30548 | .82904 |
| #1 | 5255.1 | 64880. | 3995.2 |
| #2 | 5282.5 | 65161. | 3948.7 |

Sample Name: 280-41886-C-2-I Acquired: 5/16/2013 17:40:55 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **.00430** | **.00075** | **.03615** | **.00004** | **-.00001** | **.00017** | **.19332** | **.00008** |
| Stddev | .00050 | .00040 | .00073 | .00070 | .00009 | .00003 | .00051 | .00033 | .00015 |
| %RSD | 56.532 | 9.2264 | 97.219 | 1.9469 | 224.91 | 395.97 | 293.64 | .17151 | 192.95 |
| #1 | .00123 | .00402 | .00127 | .03664 | .00010 | -.00003 | -.00019 | .19308 | .00018 |
| #2 | .00053 | .00458 | .00023 | .03565 | -.00002 | .00001 | .00053 | .19355 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00026** | **-.00095** | **.03640** | **.12031** | **-.00204** | **.07264** | **.00019** | **-.00018** |
| Stddev | .00010 | .00002 | .00024 | .00112 | .00988 | .00058 | .00490 | .00011 | .00014 |
| %RSD | 70.935 | 8.8397 | 25.133 | 3.0703 | 8.2144 | 28.523 | 6.7491 | 61.013 | 78.626 |
| #1 | .00007 | .00024 | -.00078 | .03719 | .12730 | -.00163 | .07611 | .00027 | -.00027 |
| #2 | .00022 | .00027 | -.00112 | .03561 | .11332 | -.00245 | .06918 | .00011 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41402** | **.00004** | **.20024** | **-.00016** | **-.00039** | **-.00244** | **.00060** | **.14790** | **.00053** |
| Stddev | .00577 | .00024 | .00540 | .00027 | .00334 | .00080 | .00168 | .01977 | .00040 |
| %RSD | 1.3944 | 600.17 | 2.6965 | 167.18 | 862.33 | 32.839 | 277.56 | 13.370 | 75.781 |
| #1 | .41810 | -.00013 | .20406 | -.00035 | .00197 | -.00301 | -.00058 | .16188 | .00024 |
| #2 | .40993 | .00021 | .19642 | .00003 | -.00275 | -.00188 | .00179 | .13392 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **.00321** | **-.00025** | **-.00064** | **-.00991** | **-.00073** | **.00360** | **.00060** |
| Stddev | .00002 | .00020 | .00016 | .00131 | .00060 | .00025 | .00050 | .00100 |
| %RSD | 2.0979 | 6.2205 | 61.458 | 205.86 | 6.0609 | 34.231 | 13.902 | 168.45 |
| #1 | .00098 | .00335 | -.00036 | -.00157 | -.01033 | -.00091 | .00396 | .00131 |
| #2 | .00095 | .00306 | -.00014 | .00029 | -.00948 | -.00055 | .00325 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5468.8** | **68486.** | **4035.5** |
| Stddev | 4.2 | 196. | 35.0 |
| %RSD | .07749 | .28581 | .86800 |
| #1 | 5465.8 | 68348. | 4010.8 |
| #2 | 5471.8 | 68625. | 4060.3 |

Sample Name: sd 280-41886-C-2-I@5 Acquired: 5/16/2013 17:43:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **.00211** | **.00390** | **.00716** | **.00012** | **-.00001** | **.00142** | **.05019** | **-.00010** |
| Stddev | .00034 | .00027 | .00076 | .00016 | .00029 | .00016 | .00262 | .00055 | .00001 |
| %RSD | 24.622 | 12.830 | 19.399 | 2.1904 | 252.30 | 3065.7 | 184.46 | 1.0960 | 10.513 |
| #1 | .00161 | .00192 | .00337 | .00705 | .00032 | -.00012 | .00327 | .04980 | -.00011 |
| #2 | .00113 | .00230 | .00444 | .00727 | -.00009 | .00011 | -.00043 | .05058 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00017** | **-.00070** | **.01027** | **-.00791** | **-.00207** | **.01466** | **.00008** | **-.00018** |
| Stddev | .00004 | .00001 | .00002 | .00170 | .09292 | .00244 | .00056 | .00005 | .00026 |
| %RSD | 31.019 | 6.1608 | 3.3125 | 16.510 | 1174.5 | 117.53 | 3.8111 | 58.001 | 146.47 |
| #1 | .00017 | .00017 | -.00068 | .00907 | .05779 | -.00380 | .01426 | .00012 | -.00036 |
| #2 | .00011 | .00018 | -.00071 | .01147 | -.07362 | -.00035 | .01505 | .00005 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12207** | **-.00002** | **.03994** | **-.00012** | **-.03711** | **-.00157** | **.00585** | **.04257** | **.00046** |
| Stddev | .01289 | .00043 | .00120 | .00108 | .00446 | .00009 | .00110 | .01404 | .00006 |
| %RSD | 10.559 | 2883.2 | 3.0151 | 878.20 | 12.018 | 5.6574 | 18.762 | 32.986 | 12.923 |
| #1 | .13118 | .00029 | .04080 | .00064 | -.04026 | -.00164 | .00507 | .03264 | .00050 |
| #2 | .11295 | -.00032 | .03909 | -.00088 | -.03395 | -.00151 | .00662 | .05249 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00193** | **.00013** | **-.00196** | **-.02364** | **-.00071** | **.00360** | **.00057** |
| Stddev | .00002 | .00226 | .00074 | .00078 | .04975 | .00106 | .00014 | .00094 |
| %RSD | 7.0767 | 117.11 | 554.93 | 39.921 | 210.41 | 149.22 | 3.8770 | 163.70 |
| #1 | .00027 | .00033 | .00065 | -.00251 | .01153 | .00004 | .00370 | .00124 |
| #2 | .00030 | .00352 | -.00039 | -.00140 | -.05882 | -.00147 | .00350 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5445.2** | **67332.** | **3983.9** |
| Stddev | 1.1 | 98. | 6.0 |
| %RSD | .02080 | .14583 | .14976 |
| #1 | 5446.0 | 67263. | 3988.1 |
| #2 | 5444.4 | 67401. | 3979.7 |

Sample Name: 280-41886-C-2-J MS  Acquired: 5/16/2013 17:45:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05434** | **1.9573** | **.98250** | **1.1008** | **2.0119** | **.04726** | **2.0093** | **48.337** | **.10215** |
| Stddev | .00095 | .0026 | .00113 | .0007 | .0086 | .00017 | .0001 | .221 | .00015 |
| %RSD | 1.7413 | .13468 | .11515 | .06251 | .42969 | .35736 | .00384 | .45796 | .14295 |
| #1 | .05367 | 1.9592 | .98170 | 1.1003 | 2.0180 | .04738 | 2.0094 | 48.494 | .10204 |
| #2 | .05501 | 1.9554 | .98330 | 1.1013 | 2.0058 | .04714 | 2.0093 | 48.181 | .10225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50146** | **.19396** | **.24005** | **.92128** | **52.469** | **1.0388** | **48.719** | **.49668** | **.96115** |
| Stddev | .00178 | .00008 | .00038 | .00270 | .246 | .0048 | .014 | .00061 | .00046 |
| %RSD | .35417 | .04194 | .15910 | .29286 | .46910 | .46010 | .02869 | .12250 | .04760 |
| #1 | .50272 | .19390 | .24032 | .92318 | 52.643 | 1.0422 | 48.729 | .49625 | .96083 |
| #2 | .50021 | .19402 | .23978 | .91937 | 52.295 | 1.0355 | 48.710 | .49711 | .96148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.476** | **.48513** | **10.636** | **.49808** | **-.00712** | **.52123** | **2.1012** | **9.7614** | **1.9095** |
| Stddev | .059 | .00081 | .018 | .00256 | .00181 | .00152 | .0092 | .0009 | .0049 |
| %RSD | .11049 | .16609 | .16886 | .51388 | 25.377 | .29216 | .43694 | .00903 | .25561 |
| #1 | 53.434 | .48570 | 10.649 | .49989 | -.00839 | .52015 | 2.1077 | 9.7607 | 1.9130 |
| #2 | 53.517 | .48456 | 10.624 | .49627 | -.00584 | .52231 | 2.0947 | 9.7620 | 1.9061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0428** | **1.0520** | **1.0114** | **1.9239** | **2.0393** | **.48628** | **.49001** | **.47292** |
| Stddev | .0055 | .0045 | .0022 | .0010 | .0130 | .00004 | .00078 | .00261 |
| %RSD | .52991 | .42320 | .22231 | .05123 | .63613 | .00841 | .15874 | .55119 |
| #1 | 1.0467 | 1.0489 | 1.0098 | 1.9246 | 2.0301 | .48625 | .49056 | .47476 |
| #2 | 1.0389 | 1.0552 | 1.0129 | 1.9232 | 2.0485 | .48631 | .48946 | .47108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5335.5** | **66930.** | **4029.5** |
| Stddev | 1.2 | 31. | 48.2 |
| %RSD | .02229 | .04615 | 1.1950 |
| #1 | 5334.6 | 66952. | 3995.4 |
| #2 | 5336.3 | 66908. | 4063.5 |

Sample Name: 280-41886-C-2-K MSD Acquired: 5/16/2013 17:48:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05440** | **1.9708** | **.99103** | **1.0985** | **2.0319** | **.04794** | **2.0222** | **48.538** | **.10289** |
| Stddev | .00008 | .0034 | .00206 | .0001 | .0069 | .00014 | .0006 | .121 | .00008 |
| %RSD | .14605 | .17443 | .20737 | .00893 | .34165 | .29046 | .02872 | .24887 | .07631 |
| #1 | .05435 | 1.9732 | .98958 | 1.0984 | 2.0369 | .04784 | 2.0218 | 48.623 | .10295 |
| #2 | .05446 | 1.9683 | .99248 | 1.0985 | 2.0270 | .04804 | 2.0226 | 48.453 | .10284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50593** | **.19542** | **.24247** | **.93990** | **52.725** | **1.0478** | **49.207** | **.50148** | **.95723** |
| Stddev | .00033 | .00041 | .00076 | .00530 | .084 | .0020 | .154 | .00061 | .00004 |
| %RSD | .06524 | .21063 | .31249 | .56360 | .15958 | .19384 | .31196 | .12155 | .00422 |
| #1 | .50570 | .19571 | .24301 | .94365 | 52.784 | 1.0464 | 49.315 | .50191 | .95726 |
| #2 | .50616 | .19513 | .24194 | .93616 | 52.666 | 1.0492 | 49.098 | .50105 | .95720 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.773** | **.48748** | **10.689** | **.50077** | **-.00508** | **.51688** | **2.1157** | **9.6849** | **1.9069** |
| Stddev | .093 | .00004 | .003 | .00082 | .00449 | .00346 | .0090 | .0598 | .0045 |
| %RSD | .17052 | .00749 | .02387 | .16318 | 88.330 | .66910 | .42636 | .61788 | .23420 |
| #1 | 54.839 | .48746 | 10.687 | .50020 | -.00191 | .51932 | 2.1221 | 9.6426 | 1.9100 |
| #2 | 54.707 | .48751 | 10.690 | .50135 | -.00825 | .51443 | 2.1093 | 9.7273 | 1.9037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0483** | **1.0574** | **1.0072** | **1.9429** | **2.0280** | **.49040** | **.49225** | **.47130** |
| Stddev | .0016 | .0013 | .0004 | .0016 | .0291 | .00091 | .00387 | .00317 |
| %RSD | .15040 | .12682 | .04386 | .08119 | 1.4360 | .18558 | .78662 | .67244 |
| #1 | 1.0494 | 1.0583 | 1.0075 | 1.9441 | 2.0486 | .49105 | .49499 | .47354 |
| #2 | 1.0472 | 1.0564 | 1.0069 | 1.9418 | 2.0074 | .48976 | .48951 | .46906 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5355.1** | **66902.** | **4049.5** |
| Stddev | 17.7 | 224. | 32.9 |
| %RSD | .33061 | .33448 | .81184 |
| #1 | 5342.6 | 66744. | 4026.2 |
| #2 | 5367.6 | 67060. | 4072.7 |

Sample Name: pds 280-41886-C-2-I  Acquired: 5/16/2013 17:50:20  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05210** | **1.0238** | **.19785** | **.14484** | **.10358** | **.04822** | **-.00098** | **19.907** | **.05215** |
| Stddev | .00066 | .0014 | .00017 | .00089 | .00008 | .00005 | .00238 | .170 | .00009 |
| %RSD | 1.2625 | .14043 | .08454 | .61462 | .07858 | .10048 | 241.58 | .85458 | .17371 |
| #1 | .05163 | 1.0227 | .19797 | .14547 | .10364 | .04825 | .00070 | 20.028 | .05209 |
| #2 | .05256 | 1.0248 | .19773 | .14421 | .10353 | .04818 | -.00266 | 19.787 | .05221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05161** | **.04992** | **.04954** | **.98763** | **21.543** | **.10560** | **19.965** | **.05188** | **.04842** |
| Stddev | .00003 | .00006 | .00030 | .00362 | .278 | .00245 | .007 | .00013 | .00006 |
| %RSD | .06559 | .11295 | .61131 | .36702 | 1.2900 | 2.3198 | .03718 | .25578 | .13112 |
| #1 | .05163 | .04996 | .04933 | .99019 | 21.740 | .10733 | 19.970 | .05179 | .04846 |
| #2 | .05159 | .04988 | .04976 | .98506 | 21.347 | .10386 | 19.960 | .05197 | .04838 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.400** | **.05006** | **2.3139** | **.10323** | **.00232** | **.10137** | **.21684** | **4.9929** | **.09847** |
| Stddev | .092 | .00031 | .0005 | .00064 | .00412 | .00174 | .00631 | .0028 | .00042 |
| %RSD | .41239 | .62352 | .02320 | .62393 | 177.91 | 1.7136 | 2.9081 | .05643 | .42282 |
| #1 | 22.335 | .05028 | 2.3135 | .10277 | -.00060 | .10260 | .22130 | 4.9909 | .09818 |
| #2 | 22.466 | .04984 | 2.3143 | .10368 | .00523 | .10015 | .21238 | 4.9949 | .09877 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05582** | **.21582** | **.05157** | **.19813** | **.46056** | **.04900** | **.20677** | **.04778** |
| Stddev | .00045 | .00145 | .00048 | .00017 | .02942 | .00054 | .00169 | .00025 |
| %RSD | .80033 | .67255 | .92579 | .08420 | 6.3877 | 1.0979 | .81573 | .52562 |
| #1 | .05614 | .21479 | .05123 | .19801 | .48136 | .04862 | .20558 | .04761 |
| #2 | .05550 | .21685 | .05191 | .19825 | .43975 | .04938 | .20797 | .04796 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5450.1** | **67757.** | **4059.4** |
| Stddev | 5.3 | 186. | 47.9 |
| %RSD | .09735 | .27389 | 1.1805 |
| #1 | 5453.9 | 67888. | 4025.5 |
| #2 | 5446.4 | 67626. | 4093.3 |

Sample Name: 280-41948-A-2-A  Acquired: 5/16/2013 17:52:41  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00179** | **.00342** | **.00183** | **.01667** | **.00911** | **-.00005** | **-.00346** | **51.726** | **.00007** |
| Stddev | .00076 | .00009 | .00258 | .00090 | .00098 | .00009 | .00131 | .386 | .00020 |
| %RSD | 42.349 | 2.6263 | 141.17 | 5.4271 | 10.784 | 173.83 | 37.967 | .74703 | 269.19 |
| #1 | .00125 | .00348 | .00000 | .01731 | .00842 | -.00011 | -.00253 | 51.453 | .00021 |
| #2 | .00232 | .00335 | .00365 | .01603 | .00980 | .00001 | -.00438 | 52.000 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.00179** | **-.00034** | **.00604** | **1.4074** | **.00101** | **26.887** | **.00133** | **.00178** |
| Stddev | .00007 | .00010 | .00038 | .00099 | .0608 | .00003 | .072 | .00001 | .00007 |
| %RSD | 9.4637 | 5.4941 | 111.46 | 16.302 | 4.3221 | 3.2825 | .26653 | .44234 | 4.1191 |
| #1 | .00084 | .00172 | -.00007 | .00674 | 1.4504 | .00103 | 26.938 | .00133 | .00173 |
| #2 | .00073 | .00186 | -.00060 | .00535 | 1.3644 | .00099 | 26.837 | .00132 | .00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6056** | **.00058** | **.28551** | **.00198** | **3.2341** | **-.00325** | **.00139** | **6.5074** | **-.00008** |
| Stddev | .0098 | .00003 | .00134 | .00121 | .0056 | .00083 | .00211 | .0165 | .00014 |
| %RSD | .37682 | 4.8973 | .47032 | 61.263 | .17302 | 25.355 | 152.34 | .25367 | 172.12 |
| #1 | 2.5986 | .00056 | .28646 | .00283 | 3.2301 | -.00267 | .00288 | 6.4957 | -.00018 |
| #2 | 2.6125 | .00060 | .28456 | .00112 | 3.2380 | -.00384 | -.00011 | 6.5191 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03971** | **.00315** | **-.00042** | **-.00089** | **-.01198** | **-.00092** | **.03155** | **.00267** |
| Stddev | .00009 | .00041 | .00006 | .00005 | .00937 | .00092 | .00005 | .00119 |
| %RSD | .21587 | 12.925 | 14.555 | 5.4544 | 78.163 | 100.34 | .15017 | 44.629 |
| #1 | .03965 | .00287 | -.00046 | -.00085 | -.00536 | -.00027 | .03159 | .00352 |
| #2 | .03977 | .00344 | -.00037 | -.00092 | -.01860 | -.00157 | .03152 | .00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5418.4** | **67146.** | **4066.4** |
| Stddev | 22.3 | 336. | 36.1 |
| %RSD | .41093 | .49987 | .88772 |
| #1 | 5434.2 | 66908. | 4091.9 |
| #2 | 5402.7 | 67383. | 4040.9 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 17:55:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **49.080** | **.00178** | **.00068** | **-.00020** | **-.00009** | **.97498** | **.00204** | **-.00050** | **.00202** | **.00013** | **-.00332** | **46.920** |
| Stddev | .00076 | .326 | .00126 | .00032 | .00020 | .00002 | .00327 | .00139 | .00006 | .00016 | .00020 | .00036 | .227 |
| %RSD | 308.81 | .66492 | 71.005 | 46.764 | 99.065 | 22.575 | .33588 | 68.304 | 13.015 | 7.8888 | 146.86 | 10.709 | .48406 |
| #1 | .00079 | 48.849 | .00267 | .00090 | -.00035 | -.00007 | .97730 | .00106 | -.00045 | .00214 | .00027 | -.00307 | 46.760 |
| #2 | -.00029 | 49.311 | .00089 | .00045 | -.00006 | -.00010 | .97267 | .00303 | -.00054 | .00191 | -.00001 | -.00357 | 47.081 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10510** | **-.00137** | **.00867** | **-.00022** | **-.00204** | **258.14** | **.00107** | **.00807** | **.00067** | **4.9708** | **-.00131** | **.00499** | **.00232** |
| Stddev | .03499 | .00196 | .00236 | .00002 | .00000 | 1.80 | .00014 | .00173 | .00008 | .0040 | .00044 | .00090 | .00081 |
| %RSD | 33.296 | 143.16 | 27.231 | 10.966 | .05964 | .69902 | 13.194 | 21.484 | 11.267 | .08140 | 33.853 | 17.986 | 34.870 |
| #1 | .12984 | .00002 | .00700 | -.00024 | -.00204 | 256.86 | .00097 | .00929 | .00061 | 4.9679 | -.00162 | .00435 | .00289 |
| #2 | .08035 | -.00276 | .01034 | -.00021 | -.00204 | 259.41 | .00117 | .00684 | .00072 | 4.9736 | -.00099 | .00562 | .00174 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00114** | **.00035** | **5.1232** | **.00394** | **-.00311** | **9.8806** | **-.00090** | **.00284** | **-.05979** |
| Stddev | .00001 | .00005 | .0028 | .00087 | .00077 | .0177 | .00033 | .00001 | .00385 |
| %RSD | .76931 | 12.838 | .05410 | 22.125 | 24.637 | .17941 | 36.249 | .52131 | 6.4397 |
| #1 | .00114 | .00038 | 5.1252 | .00456 | -.00257 | 9.8932 | -.00113 | .00283 | -.06251 |
| #2 | .00113 | .00032 | 5.1213 | .00333 | -.00365 | 9.8681 | -.00067 | .00285 | -.05706 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5369.4** | **66181.** | **4009.2** |
| Stddev | 27.3 | 74. | 23.6 |
| %RSD | .50798 | .11196 | .58922 |
| #1 | 5350.1 | 66233. | 4025.9 |
| #2 | 5388.6 | 66129. | 3992.5 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 17:57:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51349** | **.50102** | **.97982** | **.51700** | **.49472** | **.46276** | **.00278** | **4.8258** | **.49912** | **.51068** | **.48283** | **.47936** | **2.2733** |
| Stddev | .00035 | .00170 | .00226 | .00003 | .00400 | .00298 | .00228 | .0062 | .00038 | .00251 | .00084 | .00168 | .0076 |
| %RSD | .06908 | .33854 | .23076 | .00561 | .80945 | .64335 | 82.120 | .12938 | .07655 | .49215 | .17375 | .35023 | .33562 |
| #1 | .51374 | .49982 | .98142 | .51698 | .49189 | .46066 | .00440 | 4.8213 | .49885 | .50890 | .48342 | .47817 | 2.2786 |
| #2 | .51324 | .50222 | .97822 | .51702 | .49755 | .46487 | .00117 | 4.8302 | .49939 | .51246 | .48223 | .48055 | 2.2679 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.495** | **1.0377** | **19.404** | **.49943** | **.47291** | **4.9404** | **.49522** | **1.0197** | **1.0028** | **-.04274** | **1.0073** | **1.0421** | **4.6378** |
| Stddev | .423 | .0066 | .010 | .00045 | .00185 | .0295 | .00171 | .0037 | .0070 | .00321 | .0053 | .0047 | .0346 |
| %RSD | .82236 | .63191 | .05081 | .08935 | .39195 | .59635 | .34582 | .36094 | .69363 | 7.5087 | .52659 | .45596 | .74649 |
| #1 | 51.196 | 1.0330 | 19.397 | .49912 | .47160 | 4.9195 | .49401 | 1.0171 | .99783 | -.04047 | 1.0036 | 1.0388 | 4.6133 |
| #2 | 51.795 | 1.0423 | 19.411 | .49975 | .47423 | 4.9612 | .49643 | 1.0223 | 1.0077 | -.04501 | 1.0111 | 1.0455 | 4.6622 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94252** | **.51583** | **.00256** | **.49705** | **.95540** | **.00233** | **.48084** | **.48901** | **.47578** |
| Stddev | .00397 | .00253 | .00002 | .00059 | .00444 | .02625 | .00040 | .00067 | .00074 |
| %RSD | .42069 | .48968 | .70662 | .11917 | .46517 | 1125.6 | .08415 | .13756 | .15512 |
| #1 | .93971 | .51405 | .00257 | .49663 | .95226 | .02089 | .48113 | .48853 | .47526 |
| #2 | .94532 | .51762 | .00255 | .49746 | .95855 | -.01623 | .48055 | .48948 | .47631 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5420.0** | **67610.** | **4081.4** |
| Stddev | 3.1 | 80. | 30.0 |
| %RSD | .05723 | .11854 | .73578 |
| #1 | 5417.8 | 67553. | 4102.7 |
| #2 | 5422.2 | 67666. | 4060.2 |

Sample Name: CCB Acquired: 5/16/2013 17:59:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00198** | **.00017** | **.00190** | **.00016** | **-.00048** | **-.00004** | **.00060** | **-.00478** | **-.00009** | **.00028** | **.00009** |
| Stddev | .00003 | .00005 | .00155 | .00027 | .00085 | .00004 | .00065 | .00285 | .00019 | .00008 | .00009 |
| %RSD | 1.6143 | 31.657 | 81.267 | 173.76 | 175.99 | 104.37 | 108.29 | 59.698 | 206.53 | 26.933 | 101.29 |
| #1 | .00196 | .00013 | .00081 | -.00004 | .00012 | -.00007 | .00014 | -.00680 | .00004 | .00034 | .00016 |
| #2 | .00200 | .00020 | .00300 | .00035 | -.00108 | -.00001 | .00106 | -.00276 | -.00023 | .00023 | .00003 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | | | | | | | | | |
| Low Limit | -.00180 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00118** | **-.00483** | **.11855** | W **-.00385** | **.00106** | **-.00007** | **-.00016** | **.05004** | **-.00028** | **-.00043** | **.00080** |
| Stddev | .00040 | .00573 | .03746 | .00288 | .00262 | .00004 | .00021 | .01692 | .00009 | .00141 | .00018 |
| %RSD | 34.070 | 118.60 | 31.594 | 74.740 | 246.16 | 59.519 | 131.08 | 33.807 | 31.621 | 327.07 | 22.742 |
| #1 | -.00146 | -.00078 | .14504 | -.00181 | -.00079 | -.00004 | -.00001 | .03808 | -.00034 | .00057 | .00093 |
| #2 | -.00089 | -.00888 | .09207 | -.00588 | .00292 | -.00011 | -.00030 | .06200 | -.00022 | -.00143 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03990** | **.00014** | **.00010** | **-.01124** | **.00043** | **-.00006** | **.00195** | **-.00048** | **-.00163** | **-.00941** | **-.00108** |
| Stddev | .00469 | .00056 | .00001 | .00146 | .00060 | .00003 | .00113 | .00023 | .00088 | .03658 | .00127 |
| %RSD | 11.763 | 385.90 | 6.3694 | 12.993 | 137.50 | 47.127 | 57.891 | 48.923 | 54.123 | 388.87 | 117.28 |
| #1 | -.04322 | .00054 | .00010 | -.01227 | .00001 | -.00009 | .00275 | -.00064 | -.00100 | -.03528 | -.00198 |
| #2 | -.03658 | -.00025 | .00009 | -.01021 | .00086 | -.00004 | .00115 | -.00031 | -.00225 | .01646 | -.00018 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00244** | **.00228** |
| Stddev | .00010 | .00005 |
| %RSD | 4.1414 | 2.0472 |
| #1 | .00251 | .00231 |
| #2 | .00237 | .00224 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5445.0** | **67720.** | **4019.1** |
| Stddev | 6.3 | 161. | 43.6 |
| %RSD | .11615 | .23716 | 1.0839 |
| #1 | 5440.5 | 67606. | 3988.3 |
| #2 | 5449.5 | 67834. | 4049.9 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 18:02:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01183** | **.10219** | **.01653** | **.10289** | **.00974** | **.00093** | **.10030** | **.19197** | **.00523** | **.01066** | **.00981** |
| Stddev | .00086 | .00033 | .00037 | .00021 | .00031 | .00003 | .00329 | .00581 | .00007 | .00038 | .00000 |
| %RSD | 7.2869 | .32763 | 2.2403 | .20799 | 3.1812 | 2.6957 | 3.2786 | 3.0248 | 1.2574 | 3.5304 | .02754 |
| #1 | .01244 | .10196 | .01679 | .10274 | .00952 | .00095 | .09797 | .19608 | .00528 | .01092 | .00981 |
| #2 | .01122 | .10243 | .01626 | .10304 | .00996 | .00091 | .10262 | .18787 | .00519 | .01039 | .00981 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01361** | **.08642** | **3.2190** | W **.00725** | **.19929** | **.01023** | **.01842** | **1.0391** | **.04048** | **2.9836** | **.01011** |
| Stddev | .00001 | .00065 | .0172 | .00067 | .00409 | .00008 | .00050 | .0089 | .00030 | .0104 | .00052 |
| %RSD | .06545 | .74978 | .53501 | 9.2942 | 2.0514 | .76583 | 2.7074 | .85936 | .73254 | .34990 | 5.1453 |
| #1 | .01362 | .08597 | 3.2068 | .00677 | .20218 | .01018 | .01807 | 1.0454 | .04027 | 2.9762 | .01048 |
| #2 | .01361 | .08688 | 3.2311 | .00772 | .19640 | .01029 | .01877 | 1.0328 | .04069 | 2.9909 | .00974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04721** | W **.00720** | **.01550** | **.48179** | **.09467** | **.01034** | **.01625** | **.00977** | **.01352** | W **.07265** | **.00932** |
| Stddev | .00156 | .00112 | .00478 | .04416 | .00004 | .00011 | .00123 | .00016 | .00079 | .02884 | .00003 |
| %RSD | 3.3011 | 15.485 | 30.846 | 9.1652 | .03987 | 1.0172 | 7.5678 | 1.6241 | 5.8507 | 39.696 | .29418 |
| #1 | -.04832 | .00799 | .01888 | .51301 | .09470 | .01027 | .01538 | .00966 | .01296 | .09304 | .00934 |
| #2 | -.04611 | .00642 | .01212 | .45056 | .09464 | .01042 | .01712 | .00989 | .01408 | .05226 | .00930 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -20.000% | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02228** | **.01594** |
| Stddev | .00018 | .00178 |
| %RSD | .79800 | 11.180 |
| #1 | .02241 | .01720 |
| #2 | .02216 | .01468 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5510.7** | **68440.** | **4078.4** |
| Stddev | 4.2 | 78. | 8.6 |
| %RSD | .07532 | .11374 | .21131 |
| #1 | 5513.6 | 68385. | 4084.5 |
| #2 | 5507.7 | 68495. | 4072.3 |

Sample Name: 280-42003-B-4-A Acquired: 5/16/2013 18:04:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **.10843** | **.00595** | **2.9445** | **.03086** | **-.00000** | **.00034** | **15.619** | **.00001** |
| Stddev | .00032 | .00053 | .00086 | .0038 | .00047 | .00008 | .00026 | .101 | .00005 |
| %RSD | 26.090 | .49057 | 14.497 | .13039 | 1.5273 | 2365.8 | 76.403 | .64785 | 451.92 |
| #1 | .00101 | .10880 | .00656 | 2.9418 | .03053 | -.00006 | .00052 | 15.547 | .00005 |
| #2 | .00147 | .10805 | .00534 | 2.9473 | .03119 | .00005 | .00015 | 15.690 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **.00051** | **-.00095** | **.19371** | **6.4944** | **.03611** | **14.775** | **.02397** | **.01129** |
| Stddev | .00021 | .00003 | .00012 | .00257 | .0088 | .00285 | .035 | .00004 | .00007 |
| %RSD | 21.041 | 6.5012 | 12.753 | 1.3255 | .13562 | 7.8806 | .23946 | .14710 | .59228 |
| #1 | .00114 | .00053 | -.00103 | .19189 | 6.4882 | .03409 | 14.750 | .02399 | .01125 |
| #2 | .00084 | .00049 | -.00086 | .19553 | 6.5006 | .03812 | 14.800 | .02394 | .01134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **357.31** | **.00210** | **.24129** | **.00057** | **33.300** | **-.00026** | **.00332** | **4.8054** | **.00088** |
| Stddev | 1.97 | .00014 | .00006 | .00025 | .031 | .00200 | .00337 | .0193 | .00055 |
| %RSD | .55046 | 6.6269 | .02582 | 44.044 | .09400 | 764.53 | 101.49 | .40107 | 62.317 |
| #1 | 355.92 | .00220 | .24134 | .00075 | 33.322 | -.00168 | .00571 | 4.7918 | .00127 |
| #2 | 358.70 | .00200 | .24125 | .00039 | 33.278 | .00115 | .00094 | 4.8191 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0362** | **.00143** | **.00058** | **-.00029** | **-.00146** | **.00053** | **.00448** | **.00303** |
| Stddev | .0065 | .00065 | .00014 | .00050 | .02485 | .00021 | .00042 | .00255 |
| %RSD | .62347 | 45.559 | 24.529 | 170.31 | 1705.0 | 40.434 | 9.3936 | 84.251 |
| #1 | 1.0316 | .00097 | .00048 | -.00065 | -.01903 | .00068 | .00418 | .00483 |
| #2 | 1.0407 | .00189 | .00068 | .00006 | .01612 | .00038 | .00478 | .00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5398.0** | **67366.** | **4053.4** |
| Stddev | 20.9 | 133. | 5.4 |
| %RSD | .38716 | .19742 | .13405 |
| #1 | 5383.3 | 67460. | 4057.2 |
| #2 | 5412.8 | 67272. | 4049.5 |

Sample Name: 280-42003-B-5-A Acquired: 5/16/2013 18:07:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00175** | **.01335** | **.00173** | **.07351** | **.13182** | **-.00001** | **-.00091** | **54.528** | **-.00007** |
| Stddev | .00005 | .00003 | .00004 | .00136 | .00071 | .00005 | .00095 | .222 | .00012 |
| %RSD | 2.9069 | .21443 | 2.1009 | 1.8498 | .53764 | 644.67 | 103.91 | .40756 | 170.15 |
| #1 | .00171 | .01333 | .00175 | .07447 | .13233 | .00003 | -.00158 | 54.685 | -.00016 |
| #2 | .00178 | .01337 | .00170 | .07255 | .13132 | -.00005 | -.00024 | 54.371 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00026** | **-.00031** | **.05951** | **12.267** | **-.00049** | **13.956** | **.06427** | **.00064** |
| Stddev | .00007 | .00001 | .00015 | .00156 | .051 | .00194 | .028 | .00039 | .00048 |
| %RSD | 32.828 | 4.7900 | 48.190 | 2.6140 | .41589 | 394.47 | .19865 | .60084 | 75.569 |
| #1 | .00027 | .00025 | -.00020 | .06061 | 12.303 | .00088 | 13.936 | .06400 | .00098 |
| #2 | .00017 | .00027 | -.00041 | .05841 | 12.231 | -.00186 | 13.976 | .06455 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.829** | **.00051** | **.21443** | **.00156** | **30.964** | **-.00072** | **-.00039** | **.74689** | **.00001** |
| Stddev | .377 | .00015 | .00146 | .00160 | .001 | .00325 | .00327 | .01018 | .00021 |
| %RSD | 2.9381 | 30.214 | .68012 | 102.63 | .00215 | 451.25 | 845.68 | 1.3630 | 2188.3 |
| #1 | 13.096 | .00061 | .21340 | .00269 | 30.965 | .00158 | .00193 | .73969 | .00016 |
| #2 | 12.563 | .00040 | .21546 | .00043 | 30.964 | -.00302 | -.00270 | .75408 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26959** | **.00022** | **.00017** | **-.00106** | **-.01236** | **-.00087** | **.04801** | **.00259** |
| Stddev | .00096 | .00264 | .00014 | .00026 | .02646 | .00020 | .00062 | .00063 |
| %RSD | .35708 | 1200.6 | 81.055 | 24.473 | 214.04 | 22.936 | 1.2870 | 24.469 |
| #1 | .27027 | -.00165 | .00007 | -.00087 | .00635 | -.00073 | .04757 | .00304 |
| #2 | .26891 | .00209 | .00027 | -.00124 | -.03107 | -.00102 | .04845 | .00214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5571.3** | **69465.** | **4204.6** |
| Stddev | 6.3 | 115. | 19.7 |
| %RSD | .11263 | .16547 | .46791 |
| #1 | 5566.9 | 69546. | 4190.7 |
| #2 | 5575.8 | 69384. | 4218.5 |

Sample Name: 280-42003-B-7-A Acquired: 5/16/2013 18:09:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.00632** | **.00099** | **.06366** | **.08040** | **.00001** | **-.00177** | **178.37** | **.00023** |
| Stddev | .00004 | .00044 | .00093 | .00105 | .00029 | .00002 | .00638 | .13 | .00006 |
| %RSD | 3.4995 | 6.8929 | 93.745 | 1.6509 | .36394 | 261.89 | 360.64 | .07059 | 24.539 |
| #1 | .00128 | .00601 | .00165 | .06440 | .08061 | .00002 | -.00628 | 178.28 | .00027 |
| #2 | .00122 | .00662 | .00033 | .06291 | .08020 | -.00001 | .00274 | 178.46 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00037** | **-.00044** | **.04650** | **6.1930** | **-.00207** | **40.952** | **.09788** | **.00133** |
| Stddev | .00011 | .00015 | .00033 | .00239 | .0033 | .00210 | .042 | .00029 | .00018 |
| %RSD | 20.778 | 40.979 | 75.938 | 5.1357 | .05312 | 101.10 | .10137 | .29287 | 13.895 |
| #1 | .00063 | .00026 | -.00068 | .04481 | 6.1953 | -.00356 | 40.982 | .09809 | .00146 |
| #2 | .00047 | .00048 | -.00020 | .04819 | 6.1906 | -.00059 | 40.923 | .09768 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.473** | **.00138** | **.25295** | **.00096** | **169.46** | **-.00058** | **.00036** | **1.2895** | **-.00018** |
| Stddev | .309 | .00042 | .00152 | .00093 | .27 | .00032 | .00005 | .0068 | .00013 |
| %RSD | 1.0869 | 30.265 | .60023 | 97.037 | .16010 | 55.513 | 13.009 | .52947 | 75.460 |
| #1 | 28.692 | .00168 | .25188 | .00162 | 169.27 | -.00081 | .00039 | 1.2943 | -.00027 |
| #2 | 28.254 | .00109 | .25403 | .00030 | 169.65 | -.00035 | .00032 | 1.2846 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.81627** | **.00208** | **.00046** | **.00006** | **-.03956** | **.00009** | **.00520** | **.00191** |
| Stddev | .00111 | .00174 | .00042 | .00160 | .00508 | .00004 | .00048 | .00453 |
| %RSD | .13613 | 83.797 | 90.702 | 2559.7 | 12.839 | 50.723 | 9.2743 | 236.80 |
| #1 | .81548 | .00331 | .00017 | -.00107 | -.04315 | .00012 | .00486 | -.00129 |
| #2 | .81705 | .00085 | .00076 | .00119 | -.03597 | .00006 | .00554 | .00512 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5461.4** | **68984.** | **4254.5** |
| Stddev | 8.2 | 77. | 25.9 |
| %RSD | .15078 | .11109 | .60802 |
| #1 | 5455.6 | 69038. | 4236.2 |
| #2 | 5467.2 | 68929. | 4272.8 |

Sample Name: 280-42003-B-8-A Acquired: 5/16/2013 18:12:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **.01333** | **.00474** | **3.5639** | **.03557** | **-.00006** | **.00045** | **13.771** | **.00011** |
| Stddev | .00039 | .00021 | .00093 | .0004 | .00008 | .00000 | .00281 | .040 | .00007 |
| %RSD | 27.461 | 1.5669 | 19.539 | .01251 | .22824 | 4.8413 | 628.87 | .29180 | 64.039 |
| #1 | .00168 | .01318 | .00408 | 3.5636 | .03562 | -.00006 | .00243 | 13.742 | .00006 |
| #2 | .00113 | .01348 | .00539 | 3.5642 | .03551 | -.00006 | -.00154 | 13.799 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.00034** | **-.00130** | **.01101** | **4.6897** | **.03143** | **11.859** | **.02000** | **.00359** |
| Stddev | .00006 | .00009 | .00051 | .00167 | .0612 | .00036 | .027 | .00011 | .00028 |
| %RSD | 9.0021 | 25.289 | 39.181 | 15.207 | 1.3048 | 1.1422 | .23061 | .56251 | 7.7089 |
| #1 | .00072 | .00028 | -.00094 | .00982 | 4.6464 | .03117 | 11.878 | .02008 | .00339 |
| #2 | .00063 | .00040 | -.00167 | .01219 | 4.7330 | .03168 | 11.840 | .01992 | .00378 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **364.67** | **.00176** | **.25908** | **.00128** | **32.984** | **-.00098** | **.00012** | **4.7442** | **.00075** |
| Stddev | .41 | .00011 | .00022 | .00111 | .043 | .00028 | .00070 | .0272 | .00054 |
| %RSD | .11291 | 6.2476 | .08532 | 86.648 | .13154 | 28.671 | 611.22 | .57318 | 72.029 |
| #1 | 364.38 | .00169 | .25923 | .00050 | 32.953 | -.00078 | .00061 | 4.7250 | .00037 |
| #2 | 364.96 | .00184 | .25892 | .00207 | 33.014 | -.00118 | -.00038 | 4.7635 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0099** | **.00139** | **-.00006** | **.00128** | **-.04737** | **-.00025** | **.00369** | **.00364** |
| Stddev | .0031 | .00305 | .00007 | .00088 | .01898 | .00009 | .00004 | .00011 |
| %RSD | .30329 | 220.15 | 115.93 | 68.991 | 40.071 | 33.427 | 1.2172 | 3.0919 |
| #1 | 1.0078 | -.00077 | -.00011 | .00191 | -.03394 | -.00031 | .00365 | .00372 |
| #2 | 1.0121 | .00354 | -.00001 | .00066 | -.06079 | -.00019 | .00372 | .00356 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5475.9** | **68970.** | **4207.9** |
| Stddev | 12.2 | 217. | 7.5 |
| %RSD | .22323 | .31531 | .17726 |
| #1 | 5467.3 | 68817. | 4202.6 |
| #2 | 5484.6 | 69124. | 4213.2 |

Sample Name: 280-42003-B-9-A Acquired: 5/16/2013 18:14:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00168** | **.05858** | **.00185** | **3.5971** | **.03136** | **-.00009** | **.00037** | **13.171** | **.00010** |
| Stddev | .00064 | .00049 | .00115 | .0001 | .00019 | .00001 | .00146 | .138 | .00010 |
| %RSD | 38.005 | .83010 | 62.285 | .00214 | .61534 | 7.0496 | 399.02 | 1.0441 | 99.208 |
| #1 | .00214 | .05824 | .00103 | 3.5970 | .03150 | -.00008 | .00140 | 13.268 | .00017 |
| #2 | .00123 | .05892 | .00266 | 3.5971 | .03122 | -.00009 | -.00067 | 13.073 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00056** | **-.00049** | **.12735** | **4.9054** | **.03454** | **9.8097** | **.01886** | **.01872** |
| Stddev | .00011 | .00006 | .00010 | .00158 | .0163 | .00111 | .0066 | .00001 | .00009 |
| %RSD | 23.478 | 10.293 | 19.725 | 1.2412 | .33267 | 3.2269 | .06755 | .07073 | .47618 |
| #1 | .00055 | .00052 | -.00042 | .12623 | 4.8939 | .03533 | 9.8143 | .01887 | .01878 |
| #2 | .00039 | .00060 | -.00056 | .12846 | 4.9170 | .03375 | 9.8050 | .01885 | .01865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **380.19** | **.00111** | **.22945** | **-.00028** | **27.402** | **.00092** | **.00128** | **4.5469** | **.00197** |
| Stddev | 2.70 | .00024 | .00166 | .00073 | .011 | .00127 | .00188 | .0112 | .00052 |
| %RSD | .71062 | 21.216 | .72319 | 256.19 | .03866 | 137.70 | 147.63 | .24629 | 26.573 |
| #1 | 382.10 | .00094 | .22827 | .00023 | 27.394 | .00002 | -.00006 | 4.5548 | .00234 |
| #2 | 378.28 | .00128 | .23062 | -.00080 | 27.409 | .00182 | .00261 | 4.5389 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.88197** | **.00075** | **.00075** | **.00032** | **-.01304** | **.00006** | **.00418** | **.00338** |
| Stddev | .00789 | .00188 | .00024 | .00049 | .02536 | .00129 | .00014 | .00254 |
| %RSD | .89500 | 252.45 | 31.478 | 153.29 | 194.49 | 2175.1 | 3.4447 | 75.028 |
| #1 | .88755 | -.00059 | .00091 | -.00003 | -.03097 | -.00085 | .00428 | .00518 |
| #2 | .87639 | .00208 | .00058 | .00067 | .00489 | .00097 | .00408 | .00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5489.5** | **69337.** | **4260.5** |
| Stddev | 2.9 | 193. | 26.3 |
| %RSD | .05245 | .27879 | .61785 |
| #1 | 5491.5 | 69200. | 4241.9 |
| #2 | 5487.4 | 69474. | 4279.1 |

Sample Name: 280-42003-B-10-A  Acquired: 5/16/2013 18:17:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00147** | **.00907** | **.00596** | **2.3480** | **.04525** | **.00005** | **-.00034** | **14.063** | **.00013** |
| Stddev | .00050 | .00031 | .00268 | .0001 | .00016 | .00010 | .00096 | .067 | .00012 |
| %RSD | 34.023 | 3.4581 | 44.948 | .00489 | .35519 | 199.17 | 279.92 | .47747 | 93.401 |
| #1 | .00183 | .00885 | .00406 | 2.3481 | .04514 | .00012 | .00034 | 14.016 | .00022 |
| #2 | .00112 | .00929 | .00785 | 2.3479 | .04536 | -.00002 | -.00102 | 14.111 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00176** | **.00049** | **-.00006** | **.01328** | **3.9861** | **.02685** | **12.321** | **.02583** | **.00300** |
| Stddev | .00014 | .00013 | .00024 | .00193 | .0018 | .00151 | .023 | .00011 | .00022 |
| %RSD | 7.6973 | 26.612 | 399.27 | 14.531 | .04605 | 5.6100 | .18524 | .40670 | 7.3034 |
| #1 | .00167 | .00040 | -.00023 | .01464 | 3.9848 | .02791 | 12.337 | .02591 | .00284 |
| #2 | .00186 | .00059 | .00011 | .01191 | 3.9874 | .02578 | 12.304 | .02576 | .00315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **289.17** | **.00431** | **.20356** | **.00031** | **16.199** | **-.00266** | **.00223** | **4.7833** | **.00100** |
| Stddev | 2.17 | .00047 | .00036 | .00050 | .002 | .00139 | .00009 | .0263 | .00031 |
| %RSD | .75049 | 10.873 | .17543 | 161.28 | .01212 | 52.179 | 3.8201 | .54914 | 30.770 |
| #1 | 287.63 | .00464 | .20382 | -.00004 | 16.201 | -.00364 | .00229 | 4.7647 | .00078 |
| #2 | 290.70 | .00398 | .20331 | .00066 | 16.198 | -.00168 | .00217 | 4.8018 | .00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72472** | **.00055** | **-.00022** | **-.00010** | **-.01769** | **.00015** | **.00480** | **.00106** |
| Stddev | .00492 | .00013 | .00038 | .00180 | .00162 | .00005 | .00027 | .00151 |
| %RSD | .67830 | 23.732 | 171.65 | 1808.9 | 9.1831 | 34.583 | 5.5382 | 143.22 |
| #1 | .72124 | .00064 | .00005 | .00117 | -.01884 | .00011 | .00461 | -.00001 |
| #2 | .72819 | .00045 | -.00049 | -.00137 | -.01654 | .00019 | .00499 | .00213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5465.5** | **68552.** | **4169.5** |
| Stddev | 2.4 | 214. | 19.5 |
| %RSD | .04382 | .31206 | .46671 |
| #1 | 5463.9 | 68401. | 4183.2 |
| #2 | 5467.2 | 68703. | 4155.7 |

Sample Name: 280-42003-B-11-A Acquired: 5/16/2013 18:19:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00176** | **.00672** | **.00142** | **.05392** | **.10527** | **-.00006** | **-.00120** | **75.036** | **.00024** |
| Stddev | .00047 | .00009 | .00114 | .00109 | .00011 | .00002 | .00109 | .439 | .00006 |
| %RSD | 26.435 | 1.2678 | 80.332 | 2.0199 | .10364 | 32.245 | 90.903 | .58451 | 24.169 |
| #1 | .00143 | .00666 | .00061 | .05469 | .10519 | -.00005 | -.00197 | 74.726 | .00028 |
| #2 | .00209 | .00678 | .00222 | .05315 | .10534 | -.00007 | -.00043 | 75.346 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00066** | **.00358** | **.00655** | **7.8322** | **.00339** | **32.047** | **.05043** | **.00152** |
| Stddev | .00002 | .00001 | .00010 | .00167 | .0629 | .00082 | .016 | .00005 | .00001 |
| %RSD | 13.109 | 2.0878 | 2.8657 | 25.471 | .80298 | 24.307 | .05087 | .09376 | .80258 |
| #1 | .00017 | .00065 | .00351 | .00537 | 7.7877 | .00281 | 32.059 | .05040 | .00151 |
| #2 | .00014 | .00067 | .00365 | .00774 | 7.8767 | .00397 | 32.036 | .05047 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.196** | **.00212** | **.22080** | **.00129** | **37.764** | **.00141** | **-.00086** | **3.3040** | **.00007** |
| Stddev | .828 | .00036 | .00180 | .00017 | .018 | .00012 | .00159 | .0038 | .00008 |
| %RSD | 4.0999 | 16.875 | .81697 | 13.231 | .04870 | 8.7968 | 185.63 | .11506 | 110.45 |
| #1 | 19.610 | .00238 | .21953 | .00117 | 37.777 | .00150 | .00027 | 3.3067 | .00002 |
| #2 | 20.781 | .00187 | .22208 | .00141 | 37.751 | .00132 | -.00198 | 3.3014 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56480** | **.00093** | **-.00014** | **-.00223** | **-.03649** | **-.00007** | **.10374** | **.00014** |
| Stddev | .00320 | .00069 | .00059 | .00007 | .02304 | .00070 | .00040 | .00095 |
| %RSD | .56708 | 74.002 | 413.56 | 3.3011 | 63.154 | 1014.4 | .39019 | 692.40 |
| #1 | .56254 | .00141 | .00027 | -.00228 | -.05278 | -.00056 | .10345 | .00080 |
| #2 | .56707 | .00044 | -.00056 | -.00218 | -.02019 | .00042 | .10402 | -.00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5535.5** | **70155.** | **4234.5** |
| Stddev | 11.9 | 71. | 14.1 |
| %RSD | .21500 | .10070 | .33362 |
| #1 | 5527.1 | 70105. | 4244.5 |
| #2 | 5543.9 | 70205. | 4224.6 |

Sample Name: 280-42009-E-4-A Acquired: 5/16/2013 18:21:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173670 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00216** | **.00249** | **.00553** | **.02707** | **.04787** | **.00003** | **-.00165** | **89.390** | **.00032** |
| Stddev | .00014 | .00010 | .00183 | .00059 | .00036 | .00004 | .00075 | .264 | .00025 |
| %RSD | 6.2885 | 3.8445 | 33.198 | 2.1870 | .75048 | 149.62 | 45.692 | .29537 | 76.013 |
| #1 | .00225 | .00255 | .00423 | .02749 | .04761 | .00006 | -.00218 | 89.577 | .00050 |
| #2 | .00206 | .00242 | .00682 | .02665 | .04812 | -.00000 | -.00112 | 89.204 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **.00045** | **-.00091** | **3.0141** | **2.7958** | **.00112** | **50.122** | **.66693** | **.01782** |
| Stddev | .00018 | .00007 | .00008 | .0066 | .0352 | .00079 | .016 | .00085 | .00018 |
| %RSD | 19.043 | 15.772 | 8.2818 | .21773 | 1.2591 | 70.948 | .03099 | .12800 | 1.0132 |
| #1 | .00083 | .00040 | -.00096 | 3.0187 | 2.7709 | .00056 | 50.111 | .66633 | .01769 |
| #2 | .00109 | .00050 | -.00085 | 3.0094 | 2.8207 | .00168 | 50.133 | .66753 | .01794 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.7063** | **.00065** | **.37232** | **.00146** | **.83564** | **-.00192** | **.00187** | **8.3033** | **-.00001** |
| Stddev | .0022 | .00026 | .00010 | .00073 | .00142 | .00183 | .00187 | .0328 | .00046 |
| %RSD | .05818 | 39.294 | .02793 | 50.025 | .17040 | 95.446 | 99.862 | .39511 | 3666.6 |
| #1 | 3.7078 | .00083 | .37240 | .00197 | .83665 | -.00321 | .00319 | 8.3265 | -.00034 |
| #2 | 3.7048 | .00047 | .37225 | .00094 | .83463 | -.00062 | .00055 | 8.2801 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07711** | **-.00080** | **-.00006** | **-.00094** | **-.03128** | **-.00041** | **.00684** | **.00133** |
| Stddev | .00001 | .00193 | .00019 | .00009 | .03023 | .00023 | .00033 | .00028 |
| %RSD | .01035 | 241.49 | 322.82 | 10.066 | 96.671 | 55.346 | 4.8027 | 21.275 |
| #1 | .07711 | .00057 | .00008 | -.00101 | -.00990 | -.00057 | .00707 | .00153 |
| #2 | .07712 | -.00217 | -.00020 | -.00087 | -.05266 | -.00025 | .00660 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5537.3** | **69944.** | **4271.0** |
| Stddev | 5.6 | 154. | 15.7 |
| %RSD | .10036 | .22047 | .36779 |
| #1 | 5533.4 | 70053. | 4259.9 |
| #2 | 5541.2 | 69834. | 4282.1 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 18:24:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **48.375** | **.00080** | **.00485** | **-.00005** | **.00001** | **.97304** | **.00549** | **-.00077** | **.00202** | **.00017** | **-.00319** | **46.642** |
| Stddev | .00012 | .152 | .00045 | .00011 | .00043 | .00000 | .00080 | .00045 | .00004 | .00004 | .00000 | .00007 | .048 |
| %RSD | 21.689 | .31404 | 56.245 | 2.2484 | 834.69 | 34.327 | .08205 | 8.1206 | 4.8641 | 2.0890 | .78498 | 2.3175 | .10371 |
| #1 | .00066 | 48.267 | .00111 | .00493 | -.00036 | .00002 | .97361 | .00517 | -.00079 | .00199 | .00017 | -.00314 | 46.676 |
| #2 | .00048 | 48.482 | .00048 | .00477 | .00025 | .00001 | .97248 | .00580 | -.00074 | .00205 | .00017 | -.00324 | 46.608 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12586** | **.00066** | **.00800** | **-.00015** | **-.00241** | **256.57** | **.00125** | **.01124** | **.00059** | **5.0080** | **-.00262** | **.00532** | **.01481** |
| Stddev | .00293 | .00022 | .00122 | .00002 | .00004 | .76 | .00015 | .00059 | .00167 | .0043 | .00055 | .00007 | .00882 |
| %RSD | 2.3297 | 33.045 | 15.215 | 12.069 | 1.4605 | .29638 | 11.730 | 5.2601 | 285.09 | .08664 | 20.886 | 1.3346 | 59.552 |
| #1 | .12794 | .00081 | .00714 | -.00016 | -.00244 | 256.04 | .00135 | .01166 | .00177 | 5.0111 | -.00300 | .00537 | .00858 |
| #2 | .12379 | .00051 | .00886 | -.00014 | -.00239 | 257.11 | .00114 | .01082 | -.00060 | 5.0050 | -.00223 | .00527 | .02105 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00127** | **.00022** | **5.1193** | **.00414** | **-.00139** | **9.8125** | **-.00215** | **.00433** | **-.06319** |
| Stddev | .00035 | .00025 | .0053 | .00026 | .00064 | .0444 | .00063 | .00004 | .00119 |
| %RSD | 27.212 | 113.11 | .10434 | 6.3837 | 46.292 | .45204 | 29.182 | .83242 | 1.8893 |
| #1 | .00152 | .00040 | 5.1155 | .00395 | -.00185 | 9.7811 | -.00259 | .00431 | -.06235 |
| #2 | .00103 | .00004 | 5.1231 | .00432 | -.00094 | 9.8438 | -.00170 | .00436 | -.06404 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5538.6** | **69219.** | **4243.1** |
| Stddev | 6.5 | 8. | 6.0 |
| %RSD | .11723 | .01173 | .14182 |
| #1 | 5543.2 | 69214. | 4247.4 |
| #2 | 5534.0 | 69225. | 4238.9 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 18:26:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51409** | **.50039** | **.97531** | **.52173** | **.49890** | **.46532** | **.00085** | **4.8110** | **.49880** | **.50887** | **.48343** | **.48189** | **2.2732** |
| Stddev | .00185 | .00028 | .00360 | .00035 | .00203 | .00015 | .00094 | .0078 | .00003 | .00024 | .00009 | .00021 | .0022 |
| %RSD | .35965 | .05597 | .36901 | .06631 | .40705 | .03282 | 110.81 | .16164 | .00622 | .04801 | .01854 | .04304 | .09742 |
| #1 | .51278 | .50059 | .97277 | .52197 | .49746 | .46521 | .00151 | 4.8165 | .49878 | .50869 | .48337 | .48203 | 2.2748 |
| #2 | .51540 | .50020 | .97786 | .52148 | .50034 | .46542 | .00018 | 4.8055 | .49882 | .50904 | .48350 | .48174 | 2.2717 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.552** | **1.0413** | **19.375** | **.50214** | **.47057** | **5.0406** | **.49314** | **1.0205** | **1.0027** | **-.03377** | **1.0057** | **1.0373** | **4.5866** |
| Stddev | .016 | .0037 | .004 | .00136 | .00066 | .0305 | .00106 | .0044 | .0034 | .00270 | .0079 | .0067 | .0054 |
| %RSD | .03157 | .35142 | .01855 | .27133 | .14045 | .60459 | .21522 | .43091 | .34364 | 7.9826 | .78679 | .64592 | .11825 |
| #1 | 51.541 | 1.0387 | 19.378 | .50118 | .47104 | 5.0622 | .49389 | 1.0236 | 1.0051 | -.03187 | 1.0113 | 1.0420 | 4.5905 |
| #2 | 51.564 | 1.0439 | 19.373 | .50311 | .47011 | 5.0191 | .49239 | 1.0174 | 1.0002 | -.03568 | 1.0002 | 1.0325 | 4.5828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94176** | **.51791** | **.00347** | **.49949** | **.95374** | **-.04086** | **.48257** | **.48916** | **.47697** |
| Stddev | .00519 | .00145 | .00095 | .00136 | .00565 | .00711 | .00027 | .00125 | .00007 |
| %RSD | .55079 | .28000 | 27.441 | .27300 | .59240 | 17.412 | .05650 | .25457 | .01502 |
| #1 | .94543 | .51688 | .00280 | .49852 | .95774 | -.03583 | .48238 | .49004 | .47702 |
| #2 | .93810 | .51893 | .00415 | .50045 | .94975 | -.04589 | .48276 | .48828 | .47692 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5596.3** | **69860.** | **4237.8** |
| Stddev | 5.5 | 239. | 8.6 |
| %RSD | .09809 | .34196 | .20352 |
| #1 | 5592.5 | 70029. | 4243.9 |
| #2 | 5600.2 | 69691. | 4231.7 |

Sample Name: CCB Acquired: 5/16/2013 18:28:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00112** | **-.00024** | **.00333** | W **.00312** | **-.00035** | **.00005** | **-.00008** | **-.00340** | **-.00002** | **.00002** | **.00015** |
| Stddev | .00049 | .00043 | .00475 | .00081 | .00012 | .00015 | .00349 | .00409 | .00007 | .00002 | .00012 |
| %RSD | 44.154 | 175.83 | 142.59 | 26.087 | 34.080 | 304.59 | 4464.9 | 120.35 | 468.00 | 88.994 | 76.289 |
| #1 | .00147 | -.00055 | .00668 | .00254 | -.00027 | .00016 | -.00255 | -.00051 | .00004 | .00001 | .00024 |
| #2 | .00077 | .00006 | -.00003 | .00369 | -.00043 | -.00006 | .00239 | -.00629 | -.00007 | .00003 | .00007 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00156 | | | | | | | |
| Low Limit | -.00093 | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00141** | **-.00416** | **.04989** | W **-.00302** | **.00052** | **-.00010** | **-.00008** | **.09157** | **-.00024** | **.00098** | **.00229** |
| Stddev | .00005 | .00282 | .04611 | .00127 | .00109 | .00006 | .00010 | .00830 | .00016 | .00256 | .00168 |
| %RSD | 3.9046 | 67.697 | 92.417 | 41.973 | 209.26 | 61.573 | 136.52 | 9.0595 | 66.071 | 260.35 | 73.385 |
| #1 | -.00137 | -.00217 | .08249 | -.00212 | -.00025 | -.00005 | -.00015 | .09744 | -.00013 | .00280 | .00348 |
| #2 | -.00145 | -.00615 | .01729 | -.00392 | .00129 | -.00014 | -.00000 | .08570 | -.00035 | -.00083 | .00110 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | .00261 | | | | | | | |
| Low Limit | -.00136 | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03663** | **.00005** | **.00057** | **-.00984** | **.00019** | **-.00003** | **.00124** | **-.00053** | **-.00067** | **-.03160** | **-.00093** |
| Stddev | .00021 | .00159 | .00072 | .01197 | .00001 | .00003 | .00058 | .00013 | .00019 | .03615 | .00024 |
| %RSD | .56259 | 3206.1 | 127.84 | 121.72 | 7.2368 | 101.17 | 46.563 | 25.261 | 28.709 | 114.40 | 25.819 |
| #1 | -.03649 | -.00107 | .00108 | -.01830 | .00018 | -.00005 | .00165 | -.00062 | -.00081 | -.05716 | -.00110 |
| #2 | -.03678 | .00117 | .00005 | -.00137 | .00020 | -.00001 | .00083 | -.00043 | -.00054 | -.00604 | -.00076 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00238** | W **.00324** |
| Stddev | .00030 | .00331 |
| %RSD | 12.679 | 102.23 |
| #1 | .00217 | .00558 |
| #2 | .00259 | .00090 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5596.6** | **70257.** | **4216.8** |
| Stddev | 8.7 | 231. | 15.9 |
| %RSD | .15625 | .32935 | .37782 |
| #1 | 5602.8 | 70093. | 4205.5 |
| #2 | 5590.4 | 70420. | 4228.1 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 18:31:26 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01235** | **.10231** | **.01414** | **.10501** | **.00996** | **.00096** | **.10076** | **.19461** | **.00520** | **.01070** | **.01004** |
| Stddev | .00022 | .00015 | .00060 | .00077 | .00020 | .00009 | .00007 | .00004 | .00006 | .00006 | .00025 |
| %RSD | 1.7506 | .14304 | 4.2150 | .73642 | 2.0126 | 9.2676 | .06693 | .01801 | 1.1428 | .59518 | 2.5156 |
| #1 | .01219 | .10220 | .01372 | .10446 | .01011 | .00090 | .10081 | .19458 | .00524 | .01066 | .01022 |
| #2 | .01250 | .10241 | .01456 | .10555 | .00982 | .00102 | .10071 | .19463 | .00515 | .01075 | .00986 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01327** | **.08859** | **3.2410** | **.00944** | **.19981** | **.01012** | **.01812** | **1.0926** | **.04024** | **2.9881** | **.01060** |
| Stddev | .00045 | .00150 | .0188 | .00153 | .00005 | .00001 | .00015 | .0141 | .00014 | .0054 | .00005 |
| %RSD | 3.3920 | 1.6961 | .57904 | 16.172 | .02570 | .07324 | .82561 | 1.2870 | .34254 | .18055 | .50940 |
| #1 | .01295 | .08966 | 3.2543 | .01051 | .19978 | .01012 | .01823 | 1.1026 | .04014 | 2.9843 | .01056 |
| #2 | .01359 | .08753 | 3.2278 | .00836 | .19985 | .01013 | .01802 | 1.0827 | .04033 | 2.9920 | .01063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03732** | **.01023** | **.01791** | **.45367** | **.09357** | **.01066** | W **.01847** | **.00974** | **.01402** | F **.01295** | **.00839** |
| Stddev | .00044 | .00053 | .00219 | .00407 | .00030 | .00017 | .00107 | .00001 | .00071 | .00228 | .00049 |
| %RSD | 1.1669 | 5.1968 | 12.232 | .89715 | .31539 | 1.5585 | 5.8160 | .11973 | 5.0871 | 17.641 | 5.8138 |
| #1 | -.03701 | .01061 | .01636 | .45655 | .09378 | .01054 | .01923 | .00973 | .01352 | .01457 | .00873 |
| #2 | -.03762 | .00986 | .01946 | .45079 | .09336 | .01078 | .01771 | .00975 | .01452 | .01134 | .00804 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | .01500 | | | .06000 | |
| Range | | | | | | | 20.000% | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02252** | W **.01819** |
| Stddev | .00045 | .00088 |
| %RSD | 2.0093 | 4.8237 |
| #1 | .02284 | .01881 |
| #2 | .02220 | .01757 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5635.6** | **70225.** | **4208.2** |
| Stddev | 21.7 | 236. | 47.1 |
| %RSD | .38484 | .33567 | 1.1184 |
| #1 | 5620.3 | 70058. | 4174.9 |
| #2 | 5651.0 | 70392. | 4241.5 |

Sample Name: MB 280-173278/1-A Acquired: 5/16/2013 18:33:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00184** | **.00179** | **.00231** | **.00091** | **-.00041** | **.00011** | **-.00041** | **-.00016** | **.00000** |
| Stddev | .00006 | .00005 | .00355 | .00005 | .00027 | .00018 | .00324 | .00155 | .00003 |
| %RSD | 3.4372 | 2.9480 | 153.74 | 5.5775 | 66.032 | 172.68 | 784.84 | 950.40 | 16021. |
| #1 | .00180 | .00176 | .00482 | .00087 | -.00060 | -.00002 | -.00270 | .00094 | -.00002 |
| #2 | .00189 | .00183 | -.00020 | .00095 | -.00022 | .00023 | .00188 | -.00126 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00014** | **-.00087** | **-.00463** | **-.00030** | **-.00395** | **.00446** | **-.00005** | **-.00042** |
| Stddev | .00001 | .00002 | .00002 | .00255 | .01312 | .00213 | .00061 | .00002 | .00023 |
| %RSD | 77.167 | 11.601 | 2.5302 | 54.965 | 4355.6 | 53.952 | 13.615 | 45.909 | 54.604 |
| #1 | .00001 | .00013 | -.00085 | -.00283 | .00897 | -.00546 | .00403 | -.00006 | -.00026 |
| #2 | .00003 | .00015 | -.00088 | -.00643 | -.00958 | -.00244 | .00489 | -.00003 | -.00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06773** | **-.00011** | F **.14706** | **.00157** | **-.03867** | **-.00049** | **-.00026** | **.01301** | **.00077** |
| Stddev | .00706 | .00025 | .00068 | .00009 | .00356 | .00029 | .00462 | .02262 | .00050 |
| %RSD | 10.427 | 227.65 | .46250 | 5.8462 | 9.2104 | 58.780 | 1743.6 | 173.80 | 64.619 |
| #1 | .07272 | -.00028 | .14658 | .00150 | -.03615 | -.00028 | .00300 | -.00298 | .00112 |
| #2 | .06273 | .00007 | .14754 | .00163 | -.04118 | -.00069 | -.00353 | .02901 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00218** | **.00002** | **-.00272** | **-.03023** | **-.00101** | **.00238** | **.00137** |
| Stddev | .00001 | .00067 | .00019 | .00059 | .07181 | .00051 | .00007 | .00012 |
| %RSD | 27.277 | 30.838 | 763.61 | 21.573 | 237.53 | 50.861 | 3.0664 | 8.4341 |
| #1 | .00006 | .00265 | .00016 | -.00314 | -.08101 | -.00137 | .00243 | .00128 |
| #2 | .00004 | .00170 | -.00011 | -.00231 | .02055 | -.00065 | .00233 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5607.5** | **70269.** | **4190.4** |
| Stddev | 9.9 | 50. | 16.4 |
| %RSD | .17722 | .07108 | .39212 |
| #1 | 5614.6 | 70233. | 4202.0 |
| #2 | 5600.5 | 70304. | 4178.8 |

Sample Name: LCS 280-173278/2-A Acquired: 5/16/2013 18:36:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05415** | **1.9492** | **.98439** | **1.0588** | **2.0167** | **.04729** | **2.0041** | **47.773** | **.10166** |
| Stddev | .00038 | .0012 | .00292 | .0023 | .0099 | .00009 | .0084 | .184 | .00029 |
| %RSD | .69603 | .05898 | .29703 | .21699 | .49067 | .17995 | .41966 | .38430 | .28460 |
| #1 | .05442 | 1.9484 | .98232 | 1.0571 | 2.0097 | .04735 | 1.9981 | 47.643 | .10146 |
| #2 | .05388 | 1.9501 | .98645 | 1.0604 | 2.0237 | .04723 | 2.0100 | 47.902 | .10187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50071** | **.19391** | **.23904** | **.91224** | **52.414** | **1.0408** | **48.289** | **.49445** | **.95078** |
| Stddev | .00011 | .00025 | .00053 | .00029 | .270 | .0047 | .014 | .00048 | .00445 |
| %RSD | .02165 | .13114 | .22055 | .03126 | .51521 | .45099 | .02964 | .09608 | .46813 |
| #1 | .50079 | .19373 | .23867 | .91244 | 52.223 | 1.0375 | 48.299 | .49412 | .94763 |
| #2 | .50064 | .19409 | .23941 | .91204 | 52.605 | 1.0442 | 48.279 | .49479 | .95392 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.910** | **.48386** | **10.579** | **.49447** | **-.04391** | **.51161** | **2.1040** | **9.4955** | **1.8876** |
| Stddev | .147 | .00032 | .037 | .00056 | .00416 | .00049 | .0016 | .0215 | .0040 |
| %RSD | .27188 | .06649 | .35112 | .11284 | 9.4643 | .09612 | .07643 | .22653 | .21339 |
| #1 | 53.807 | .48408 | 10.552 | .49407 | -.04097 | .51196 | 2.1052 | 9.4802 | 1.8848 |
| #2 | 54.014 | .48363 | 10.605 | .49486 | -.04685 | .51126 | 2.1029 | 9.5107 | 1.8905 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0411** | **1.0408** | **.99896** | **1.9226** | **1.9998** | **.48387** | **.48559** | **.46862** |
| Stddev | .0036 | .0049 | .00173 | .0053 | .0449 | .00170 | .00061 | .00064 |
| %RSD | .34776 | .47086 | .17271 | .27578 | 2.2473 | .35164 | .12590 | .13561 |
| #1 | 1.0385 | 1.0373 | .99774 | 1.9189 | 2.0316 | .48267 | .48602 | .46817 |
| #2 | 1.0436 | 1.0443 | 1.0002 | 1.9264 | 1.9681 | .48507 | .48516 | .46907 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5462.1** | **68638.** | **4152.1** |
| Stddev | 4.2 | 115. | 10.2 |
| %RSD | .07655 | .16808 | .24560 |
| #1 | 5465.1 | 68557. | 4159.3 |
| #2 | 5459.2 | 68720. | 4144.9 |

Sample Name: 280-41909-B-6-A  Acquired: 5/16/2013 18:38:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.00346** | **.00232** | **.04125** | **.11548** | **.00003** | **-.00051** | **63.121** | **.00013** |
| Stddev | .00017 | .00013 | .00253 | .00077 | .00063 | .00003 | .00039 | .172 | .00000 |
| %RSD | 13.592 | 3.7422 | 109.46 | 1.8691 | .54939 | 87.468 | 75.199 | .27310 | 2.5076 |
| #1 | .00113 | .00356 | .00052 | .04180 | .11593 | .00006 | -.00024 | 62.999 | .00014 |
| #2 | .00137 | .00337 | .00411 | .04071 | .11503 | .00001 | -.00078 | 63.243 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00044** | **-.00070** | **.43834** | **8.0785** | **.00311** | **23.572** | **.79421** | **.00062** |
| Stddev | .00008 | .00000 | .00001 | .00183 | .0004 | .00083 | .000 | .00042 | .00022 |
| %RSD | 23.913 | 1.1106 | 1.1594 | .41652 | .00439 | 26.514 | .00041 | .05306 | 36.496 |
| #1 | .00027 | .00044 | -.00069 | .43963 | 8.0782 | .00253 | 23.572 | .79451 | .00077 |
| #2 | .00038 | .00044 | -.00070 | .43705 | 8.0787 | .00370 | 23.571 | .79391 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.062** | **.00041** | **.18238** | **.00085** | **25.679** | **-.00100** | **.00393** | **3.2479** | **.00033** |
| Stddev | .072 | .00031 | .00239 | .00179 | .053 | .00031 | .00243 | .0011 | .00017 |
| %RSD | .47679 | 75.553 | 1.3089 | 209.21 | .20480 | 31.298 | 62.017 | .03257 | 50.968 |
| #1 | 15.011 | .00062 | .18069 | -.00041 | 25.642 | -.00122 | .00220 | 3.2486 | .00045 |
| #2 | 15.113 | .00019 | .18406 | .00212 | 25.716 | -.00078 | .00565 | 3.2471 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50976** | **.00317** | **.00005** | **-.00079** | W **-.07570** | **-.00097** | **.00488** | **.00123** |
| Stddev | .00126 | .00015 | .00011 | .00104 | .01123 | .00075 | .00025 | .00011 |
| %RSD | .24810 | 4.7244 | 239.03 | 130.67 | 14.838 | 76.881 | 5.1019 | 8.6539 |
| #1 | .50887 | .00306 | .00012 | -.00153 | -.06776 | -.00044 | .00506 | .00115 |
| #2 | .51066 | .00327 | -.00003 | -.00006 | -.08365 | -.00150 | .00471 | .00130 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5531.8** | **69734.** | **4253.6** |
| Stddev | 6.6 | 104. | 6.3 |
| %RSD | .12005 | .14911 | .14890 |
| #1 | 5527.1 | 69660. | 4249.1 |
| #2 | 5536.5 | 69808. | 4258.1 |

Sample Name: 280-41909-B-7-A Acquired: 5/16/2013 18:41:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **.00850** | **-.00047** | **.07842** | **.14246** | **-.00000** | **-.00492** | **68.937** | **.00024** |
| Stddev | .00002 | .00017 | .00321 | .00007 | .00013 | .00003 | .00166 | .776 | .00006 |
| %RSD | 1.5341 | 1.9807 | 677.81 | .08785 | .08954 | 2567.7 | 33.705 | 1.1264 | 26.082 |
| #1 | .00135 | .00838 | .00179 | .07847 | .14255 | .00002 | -.00375 | 68.388 | .00019 |
| #2 | .00132 | .00862 | -.00274 | .07837 | .14237 | -.00002 | -.00609 | 69.486 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00050** | **.00269** | **.00518** | **14.928** | **.00462** | **36.270** | **.01626** | **.00207** |
| Stddev | .00015 | .00012 | .00036 | .00269 | .119 | .00072 | .123 | .00012 | .00016 |
| %RSD | 68.689 | 23.544 | 13.220 | 52.034 | .79703 | 15.634 | .33867 | .71800 | 7.9491 |
| #1 | .00012 | .00042 | .00294 | .00327 | 14.844 | .00513 | 36.183 | .01618 | .00218 |
| #2 | .00033 | .00058 | .00244 | .00708 | 15.012 | .00411 | 36.357 | .01634 | .00195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.963** | **.00163** | **.24873** | **.00048** | **50.192** | **-.00150** | **.00080** | **3.0607** | **-.00001** |
| Stddev | .229 | .00015 | .00150 | .00037 | .014 | .00116 | .00257 | .0058 | .00055 |
| %RSD | .91697 | 9.3796 | .60298 | 76.879 | .02690 | 77.227 | 321.98 | .19093 | 9693.2 |
| #1 | 25.125 | .00174 | .24767 | .00022 | 50.182 | -.00068 | .00262 | 3.0565 | -.00039 |
| #2 | 24.801 | .00152 | .24980 | .00073 | 50.201 | -.00231 | -.00102 | 3.0648 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56840** | **.00176** | **.00057** | **-.00075** | **-.04476** | **-.00060** | **.07347** | **.00340** |
| Stddev | .00677 | .00112 | .00015 | .00030 | .02640 | .00012 | .00051 | .00065 |
| %RSD | 1.1915 | 63.556 | 26.918 | 39.771 | 58.995 | 20.476 | .69407 | 19.100 |
| #1 | .56361 | .00254 | .00046 | -.00054 | -.06343 | -.00069 | .07311 | .00294 |
| #2 | .57319 | .00097 | .00068 | -.00096 | -.02609 | -.00051 | .07383 | .00386 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5520.4** | **69475.** | **4226.5** |
| Stddev | 2.6 | 211. | 45.4 |
| %RSD | .04656 | .30439 | 1.0746 |
| #1 | 5522.2 | 69625. | 4258.6 |
| #2 | 5518.5 | 69326. | 4194.4 |

Sample Name: 280-41909-B-9-A Acquired: 5/16/2013 18:43:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00119** | **.00243** | **.00045** | **.03878** | **.11314** | **-.00010** | **-.00165** | **61.742** | **-.00005** |
| Stddev | .00074 | .00034 | .00199 | .00038 | .00078 | .00004 | .00036 | .468 | .00008 |
| %RSD | 61.988 | 13.814 | 438.51 | .97182 | .69265 | 34.290 | 21.921 | .75810 | 158.05 |
| #1 | .00067 | .00220 | .00186 | .03852 | .11258 | -.00013 | -.00140 | 61.411 | -.00010 |
| #2 | .00172 | .00267 | -.00095 | .03905 | .11369 | -.00008 | -.00191 | 62.073 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00042** | **-.00104** | **.45374** | **7.8965** | **.00119** | **22.993** | **.77610** | **.00026** |
| Stddev | .00034 | .00006 | .00037 | .00018 | .0301 | .00103 | .001 | .00105 | .00013 |
| %RSD | 118.92 | 13.619 | 35.283 | .04008 | .38143 | 86.943 | .00282 | .13514 | 50.775 |
| #1 | .00005 | .00038 | -.00078 | .45387 | 7.8752 | .00192 | 22.994 | .77536 | .00036 |
| #2 | .00053 | .00046 | -.00130 | .45361 | 7.9178 | .00046 | 22.993 | .77684 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.339** | **.00041** | **.19681** | **.00184** | **25.225** | **-.00054** | **.00477** | **3.1932** | **-.00048** |
| Stddev | .238 | .00040 | .00097 | .00104 | .013 | .00006 | .00028 | .0235 | .00087 |
| %RSD | 1.5545 | 95.792 | .49526 | 56.566 | .05304 | 11.079 | 5.9676 | .73635 | 181.25 |
| #1 | 15.508 | .00069 | .19750 | .00257 | 25.234 | -.00059 | .00457 | 3.1765 | -.00110 |
| #2 | 15.171 | .00013 | .19613 | .00110 | 25.215 | -.00050 | .00497 | 3.2098 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49848** | **.00098** | **-.00038** | **-.00038** | **-.02695** | **-.00062** | **.00475** | **.00110** |
| Stddev | .00361 | .00043 | .00014 | .00085 | .00898 | .00005 | .00029 | .00051 |
| %RSD | .72467 | 43.543 | 38.022 | 226.26 | 33.304 | 7.9742 | 6.1534 | 46.721 |
| #1 | .49592 | .00068 | -.00048 | .00023 | -.03330 | -.00058 | .00454 | .00146 |
| #2 | .50103 | .00129 | -.00028 | -.00098 | -.02060 | -.00065 | .00495 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5502.4** | **69904.** | **4250.3** |
| Stddev | 1.8 | 405. | 40.3 |
| %RSD | .03330 | .57903 | .94929 |
| #1 | 5501.1 | 69618. | 4278.8 |
| #2 | 5503.7 | 70190. | 4221.8 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 18:45:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **49.000** | **.00229** | **.00020** | **.00028** | **-.00001** | **.97665** | **.00108** | **-.00063** | **.00198** | **.00029** | **-.00296** | **46.944** |
| Stddev | .00014 | .288 | .00367 | .00041 | .00010 | .00001 | .00003 | .00032 | .00009 | .00027 | .00011 | .00003 | .135 |
| %RSD | 15.145 | .58808 | 160.13 | 202.98 | 34.811 | 251.56 | .00259 | 29.221 | 14.429 | 13.709 | 36.412 | .98383 | .28816 |
| #1 | .00100 | 49.204 | -.00030 | -.00009 | .00035 | .00000 | .97667 | .00086 | -.00057 | .00217 | .00021 | -.00294 | 47.039 |
| #2 | .00081 | 48.796 | .00488 | .00049 | .00021 | -.00002 | .97663 | .00130 | -.00069 | .00178 | .00036 | -.00298 | 46.848 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06110** | **-.00338** | **.01167** | **-.00021** | **-.00224** | **260.21** | **.00143** | **.00868** | **.00222** | **5.0291** | **-.00268** | **.00666** | **.01095** |
| Stddev | .02625 | .00176 | .00186 | .00006 | .00006 | 1.03 | .00003 | .00124 | .00028 | .0255 | .00035 | .00217 | .00048 |
| %RSD | 42.967 | 51.867 | 15.929 | 30.747 | 2.5629 | .39637 | 1.8463 | 14.287 | 12.533 | .50622 | 13.152 | 32.555 | 4.4216 |
| #1 | .07966 | -.00214 | .01036 | -.00026 | -.00228 | 260.94 | .00141 | .00955 | .00203 | 5.0111 | -.00244 | .00513 | .01129 |
| #2 | .04253 | -.00463 | .01299 | -.00016 | -.00220 | 259.48 | .00145 | .00780 | .00242 | 5.0471 | -.00293 | .00820 | .01061 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00105** | **.00039** | **5.1424** | **.00414** | **-.00215** | **9.9403** | **-.00171** | **.00334** | **-.05730** |
| Stddev | .00017 | .00002 | .0124 | .00000 | .00050 | .0638 | .00011 | .00055 | .00036 |
| %RSD | 16.231 | 4.8180 | .24216 | .04577 | 23.465 | .64212 | 6.2040 | 16.623 | .63211 |
| #1 | .00118 | .00037 | 5.1512 | .00414 | -.00179 | 9.9854 | -.00178 | .00373 | -.05755 |
| #2 | .00093 | .00040 | 5.1336 | .00414 | -.00251 | 9.8951 | -.00163 | .00295 | -.05704 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5460.3** | **68340.** | **4154.5** |
| Stddev | 14.5 | 302. | 11.3 |
| %RSD | .26619 | .44129 | .27183 |
| #1 | 5450.0 | 68126. | 4146.6 |
| #2 | 5470.6 | 68553. | 4162.5 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 18:48:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51768** | **.50530** | **.98672** | **.52206** | **.50010** | **.46583** | **.00419** | **4.8608** | **.50382** | **.51191** | **.48592** | **.47998** | **2.2822** |
| Stddev | .00025 | .00042 | .00109 | .00002 | .00133 | .00127 | .00035 | .0128 | .00002 | .00021 | .00097 | .00059 | .0054 |
| %RSD | .04770 | .08224 | .11000 | .00321 | .26572 | .27272 | 8.2911 | .26289 | .00372 | .04191 | .19871 | .12213 | .23758 |
| #1 | .51786 | .50559 | .98595 | .52205 | .49916 | .46493 | .00395 | 4.8699 | .50380 | .51206 | .48523 | .47957 | 2.2784 |
| #2 | .51751 | .50501 | .98748 | .52207 | .50104 | .46673 | .00444 | 4.8518 | .50383 | .51176 | .48660 | .48040 | 2.2860 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.753** | **1.0428** | **19.408** | **.50177** | **.47599** | **4.9839** | **.49862** | **1.0327** | **1.0090** | **-.03722** | **1.0188** | **1.0511** | **4.6143** |
| Stddev | .283 | .0050 | .014 | .00097 | .00399 | .0044 | .00302 | .0081 | .0038 | .00041 | .0019 | .0014 | .0112 |
| %RSD | .54678 | .47628 | .07169 | .19283 | .83910 | .08804 | .60510 | .78670 | .37272 | 1.1100 | .18600 | .13386 | .24294 |
| #1 | 51.553 | 1.0392 | 19.418 | .50245 | .47317 | 4.9808 | .49649 | 1.0270 | 1.0063 | -.03751 | 1.0201 | 1.0501 | 4.6064 |
| #2 | 51.953 | 1.0463 | 19.398 | .50109 | .47882 | 4.9870 | .50075 | 1.0385 | 1.0117 | -.03693 | 1.0174 | 1.0521 | 4.6222 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94985** | **.52093** | **.00134** | **.49978** | **.96530** | **-.01211** | **.48133** | **.48975** | **.48270** |
| Stddev | .00136 | .00054 | .00337 | .00113 | .00058 | .01354 | .00143 | .00066 | .00039 |
| %RSD | .14280 | .10292 | 250.79 | .22656 | .05981 | 111.75 | .29691 | .13396 | .08062 |
| #1 | .94889 | .52055 | .00372 | .50058 | .96571 | -.02169 | .48234 | .48929 | .48242 |
| #2 | .95081 | .52131 | -.00104 | .49898 | .96490 | -.00254 | .48032 | .49022 | .48297 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5537.9** | **69118.** | **4196.6** |
| Stddev | .7 | 266. | 3.5 |
| %RSD | .01208 | .38447 | .08341 |
| #1 | 5537.4 | 68930. | 4194.1 |
| #2 | 5538.4 | 69306. | 4199.1 |

Sample Name: CCB Acquired: 5/16/2013 18:50:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00108** | **-.00009** | **.00104** | **.00009** | **-.00034** | **-.00004** | **-.00115** | **-.00599** | **.00001** | **.00006** | **.00026** |
| Stddev | .00032 | .00021 | .00102 | .00053 | .00008 | .00007 | .00043 | .00085 | .00020 | .00034 | .00003 |
| %RSD | 29.295 | 229.60 | 97.980 | 565.75 | 22.689 | 162.47 | 37.371 | 14.221 | 2153.0 | 540.01 | 10.372 |
| #1 | .00130 | .00006 | .00032 | -.00028 | -.00040 | -.00009 | -.00084 | -.00660 | .00015 | -.00018 | .00027 |
| #2 | .00085 | -.00024 | .00177 | .00047 | -.00029 | .00001 | -.00145 | -.00539 | -.00013 | .00030 | .00024 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00124** | **-.00155** | **.04866** | W **-.00329** | **-.00023** | **-.00008** | **-.00028** | **.05289** | **.00003** | **.00038** | **.00080** |
| Stddev | .00024 | .00110 | .06510 | .00186 | .00057 | .00010 | .00015 | .00212 | .00028 | .00026 | .00014 |
| %RSD | 19.626 | 71.013 | 133.78 | 56.565 | 248.96 | 116.59 | 53.585 | 4.0116 | 1117.3 | 68.578 | 17.579 |
| #1 | -.00107 | -.00232 | .00263 | -.00460 | .00017 | -.00015 | -.00017 | .05439 | .00023 | .00020 | .00070 |
| #2 | -.00141 | -.00077 | .09469 | -.00197 | -.00063 | -.00001 | -.00039 | .05139 | -.00017 | .00056 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04011** | **-.00192** | **.00248** | **-.00226** | **.00018** | **.00001** | **.00274** | **-.00020** | **-.00098** | **-.03661** | W **-.00137** |
| Stddev | .00321 | .00278 | .00339 | .00382 | .00017 | .00018 | .00055 | .00012 | .00045 | .04404 | .00011 |
| %RSD | 7.9942 | 145.15 | 136.53 | 168.92 | 93.602 | 2876.2 | 20.055 | 62.203 | 46.152 | 120.29 | 7.8634 |
| #1 | -.04238 | .00005 | .00488 | .00044 | .00030 | -.00012 | .00235 | -.00011 | -.00066 | -.00547 | -.00145 |
| #2 | -.03784 | -.00388 | .00009 | -.00496 | .00006 | .00013 | .00313 | -.00029 | -.00130 | -.06775 | -.00129 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00224** | W **.00286** |
| Stddev | .00040 | .00152 |
| %RSD | 17.786 | 53.290 |
| #1 | .00252 | .00178 |
| #2 | .00195 | .00394 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5554.4** | **69903.** | **4167.3** |
| Stddev | .5 | 261. | 31.3 |
| %RSD | .00863 | .37347 | .75094 |
| #1 | 5554.8 | 70087. | 4189.4 |
| #2 | 5554.1 | 69718. | 4145.2 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 18:53:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01198** | **.10193** | **.01578** | **.10279** | **.00952** | **.00098** | **.10248** | **.19573** | **.00508** | **.01062** | **.01015** |
| Stddev | .00009 | .00055 | .00273 | .00005 | .00012 | .00003 | .00040 | .00033 | .00005 | .00031 | .00003 |
| %RSD | .72760 | .53600 | 17.285 | .05057 | 1.2305 | 2.8530 | .39339 | .16881 | 1.0709 | 2.9384 | .32148 |
| #1 | .01204 | .10232 | .01385 | .10276 | .00944 | .00100 | .10277 | .19596 | .00505 | .01040 | .01018 |
| #2 | .01192 | .10154 | .01770 | .10283 | .00961 | .00096 | .10219 | .19550 | .00512 | .01084 | .01013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01375** | **.08701** | **3.2116** | F **.00641** | **.20329** | **.01024** | **.01844** | **1.0503** | **.04055** | **2.9763** | **.00903** |
| Stddev | .00002 | .00301 | .0413 | .00023 | .00136 | .00006 | .00038 | .0040 | .00000 | .0047 | .00001 |
| %RSD | .15387 | 3.4611 | 1.2849 | 3.5775 | .67091 | .55437 | 2.0588 | .38074 | .00027 | .15927 | .05837 |
| #1 | .01377 | .08488 | 3.2408 | .00625 | .20426 | .01028 | .01871 | 1.0532 | .04055 | 2.9729 | .00904 |
| #2 | .01374 | .08914 | 3.1824 | .00657 | .20233 | .01020 | .01817 | 1.0475 | .04055 | 2.9796 | .00903 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03986** | W **.00744** | **.01555** | **.48259** | **.09572** | **.01065** | **.01558** | **.00966** | **.01323** | F **.04161** | **.00804** |
| Stddev | .00108 | .00176 | .00103 | .00908 | .00065 | .00001 | .00079 | .00051 | .00010 | .00668 | .00042 |
| %RSD | 2.7167 | 23.659 | 6.6051 | 1.8817 | .67493 | .06738 | 5.1005 | 5.2271 | .79173 | 16.050 | 5.2496 |
| #1 | -.04063 | .00620 | .01628 | .47617 | .09526 | .01065 | .01502 | .00930 | .01331 | .04634 | .00775 |
| #2 | -.03910 | .00868 | .01483 | .48902 | .09618 | .01064 | .01615 | .01002 | .01316 | .03689 | .00834 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -20.000% | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02241** | **.01748** |
| Stddev | .00008 | .00017 |
| %RSD | .37723 | .95015 |
| #1 | .02235 | .01760 |
| #2 | .02247 | .01736 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5686.6** | **70859.** | **4215.4** |
| Stddev | 3.8 | 76. | 8.4 |
| %RSD | .06597 | .10686 | .19846 |
| #1 | 5684.0 | 70912. | 4209.4 |
| #2 | 5689.3 | 70805. | 4221.3 |

Sample Name: 280-41920-C-1-A  Acquired: 5/16/2013 18:55:25  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00171** | **.00568** | **.00338** | **2.8784** | **.11586** | **-.00018** | **-.00056** | **100.92** | **.00033** |
| Stddev | .00081 | .00031 | .00305 | .0020 | .00079 | .00002 | .00291 | .67 | .00002 |
| %RSD | 47.229 | 5.4425 | 90.146 | .06850 | .68145 | 12.109 | 521.56 | .66698 | 6.1689 |
| #1 | .00114 | .00590 | .00553 | 2.8770 | .11642 | -.00016 | -.00262 | 101.40 | .00034 |
| #2 | .00229 | .00546 | .00122 | 2.8798 | .11531 | -.00019 | .00150 | 100.45 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00349** | **.00060** | **-.00045** | **.08948** | **8.2876** | **.05007** | **62.211** | **.10628** | **.01951** |
| Stddev | .00038 | .00017 | .00000 | .00111 | .0377 | .00074 | .164 | .00045 | .00029 |
| %RSD | 10.960 | 27.528 | .46323 | 1.2356 | .45510 | 1.4787 | .26295 | .42171 | 1.4634 |
| #1 | .00376 | .00072 | -.00045 | .08870 | 8.2609 | .05060 | 62.095 | .10596 | .01971 |
| #2 | .00322 | .00048 | -.00045 | .09026 | 8.3143 | .04955 | 62.326 | .10659 | .01931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **460.87** | **.00238** | **.47271** | **.00226** | **207.68** | **-.00124** | **.00105** | **6.1563** | **.00078** |
| Stddev | 3.30 | .00012 | .00620 | .00107 | .30 | .00237 | .00122 | .0363 | .00028 |
| %RSD | .71670 | 5.0905 | 1.3110 | 47.313 | .14302 | 190.65 | 115.86 | .58908 | 35.385 |
| #1 | 463.21 | .00229 | .47710 | .00301 | 207.89 | -.00292 | .00019 | 6.1820 | .00098 |
| #2 | 458.53 | .00247 | .46833 | .00150 | 207.47 | .00043 | .00192 | 6.1307 | .00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9635** | **.00293** | **-.00021** | **.00082** | W **-.06032** | **.00129** | **.01502** | **.00323** |
| Stddev | .0331 | .00138 | .00016 | .00133 | .02891 | .00012 | .00011 | .00089 |
| %RSD | .33211 | 47.097 | 73.512 | 163.17 | 47.927 | 9.4024 | .74712 | 27.609 |
| #1 | 9.9869 | .00390 | -.00010 | .00176 | -.08076 | .00120 | .01510 | .00260 |
| #2 | 9.9401 | .00195 | -.00032 | -.00013 | -.03988 | .00137 | .01494 | .00386 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5396.1** | **68204.** | **4273.6** |
| Stddev | 1.6 | 378. | 8.9 |
| %RSD | .02913 | .55406 | .20783 |
| #1 | 5395.0 | 68472. | 4279.9 |
| #2 | 5397.2 | 67937. | 4267.3 |

Sample Name: sd 280-41920-C-1-A@5 Acquired: 5/16/2013 18:58:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00136** | **.00129** | **.00385** | **.56774** | **.02208** | **-.00001** | **-.00129** | **19.873** | **-.00004** |
| Stddev | .00046 | .00012 | .00036 | .00188 | .00006 | .00007 | .00119 | .116 | .00005 |
| %RSD | 33.669 | 9.5990 | 9.3380 | .33154 | .25056 | 612.98 | 92.166 | .58443 | 145.74 |
| #1 | .00168 | .00120 | .00360 | .56641 | .02204 | .00004 | -.00045 | 19.955 | -.00007 |
| #2 | .00103 | .00138 | .00411 | .56907 | .02211 | -.00006 | -.00212 | 19.791 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **.00082** | **-.00095** | **.03495** | **1.6976** | **.00795** | **12.329** | **.02111** | **.00348** |
| Stddev | .00010 | .00007 | .00005 | .00517 | .0650 | .00183 | .039 | .00021 | .00013 |
| %RSD | 13.474 | 8.9336 | 5.0310 | 14.783 | 3.8269 | 22.985 | .31244 | .97446 | 3.6262 |
| #1 | .00080 | .00076 | -.00091 | .03860 | 1.7436 | .00925 | 12.357 | .02126 | .00339 |
| #2 | .00066 | .00087 | -.00098 | .03130 | 1.6517 | .00666 | 12.302 | .02097 | .00357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **92.620** | **.00038** | **.09019** | **.00109** | **39.425** | **-.00301** | **.00479** | **1.1632** | **.00073** |
| Stddev | .315 | .00003 | .00055 | .00013 | .017 | .00015 | .00279 | .0046 | .00018 |
| %RSD | .34062 | 7.4608 | .60639 | 11.854 | .04436 | 5.1094 | 58.284 | .39445 | 24.627 |
| #1 | 92.843 | .00036 | .09058 | .00099 | 39.413 | -.00312 | .00677 | 1.1665 | .00060 |
| #2 | 92.397 | .00040 | .08980 | .00118 | 39.438 | -.00290 | .00282 | 1.1600 | .00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9635** | **.00058** | **-.00060** | **-.00033** | **-.00502** | **-.00071** | **.00634** | **.00280** |
| Stddev | .0068 | .00238 | .00019 | .00034 | .02818 | .00003 | .00033 | .00180 |
| %RSD | .34683 | 411.79 | 32.307 | 102.22 | 561.39 | 3.8621 | 5.1801 | 64.111 |
| #1 | 1.9683 | -.00110 | -.00046 | -.00009 | -.02494 | -.00069 | .00611 | .00407 |
| #2 | 1.9587 | .00226 | -.00074 | -.00057 | .01490 | -.00073 | .00657 | .00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5593.8** | **70416.** | **4276.2** |
| Stddev | 6.6 | 270. | 28.4 |
| %RSD | .11727 | .38341 | .66382 |
| #1 | 5589.1 | 70225. | 4256.1 |
| #2 | 5598.4 | 70607. | 4296.2 |

Sample Name: 280-41920-C-1-B MS  Acquired: 5/16/2013 19:00:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05554** | **1.9423** | **1.0469** | **4.0185** | **2.1843** | **.04766** | **2.0807** | **152.41** | **.10617** |
| Stddev | .00010 | .0028 | .0004 | .0105 | .0013 | .00015 | .0053 | .22 | .00002 |
| %RSD | .18067 | .14521 | .03447 | .26147 | .05780 | .32476 | .25215 | .14423 | .01917 |
| #1 | .05561 | 1.9403 | 1.0467 | 4.0110 | 2.1834 | .04755 | 2.0844 | 152.25 | .10616 |
| #2 | .05546 | 1.9443 | 1.0472 | 4.0259 | 2.1852 | .04777 | 2.0770 | 152.57 | .10619 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51283** | **.19813** | **.24931** | **1.0121** | **62.648** | **1.1172** | **111.77** | **.60604** | **1.0020** |
| Stddev | .00067 | .00021 | .00052 | .0093 | .237 | .0018 | .01 | .00069 | .0007 |
| %RSD | .12974 | .10655 | .20861 | .91726 | .37846 | .15912 | .01341 | .11325 | .07062 |
| #1 | .51235 | .19828 | .24894 | 1.0187 | 62.480 | 1.1159 | 111.76 | .60555 | 1.0015 |
| #2 | .51330 | .19798 | .24968 | 1.0055 | 62.816 | 1.1185 | 111.78 | .60653 | 1.0025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **525.69** | **.49295** | **11.633** | **.49673** | **214.24** | **.53285** | **2.1731** | **15.912** | **1.9223** |
| Stddev | .43 | .00038 | .015 | .00093 | .19 | .00027 | .0012 | .054 | .0002 |
| %RSD | .08128 | .07794 | .13068 | .18794 | .08925 | .05128 | .05646 | .33888 | .01266 |
| #1 | 525.39 | .49268 | 11.623 | .49607 | 214.11 | .53304 | 2.1723 | 15.950 | 1.9221 |
| #2 | 526.00 | .49322 | 11.644 | .49739 | 214.38 | .53266 | 2.1740 | 15.874 | 1.9225 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.344** | **1.0622** | **1.0153** | **1.8812** | **2.0628** | **.49715** | **.49593** | **.47882** |
| Stddev | .020 | .0011 | .0019 | .0017 | .0178 | .00049 | .00101 | .00646 |
| %RSD | .17565 | .10169 | .19080 | .09126 | .86227 | .09798 | .20335 | 1.3493 |
| #1 | 11.330 | 1.0615 | 1.0139 | 1.8824 | 2.0754 | .49681 | .49664 | .48339 |
| #2 | 11.358 | 1.0630 | 1.0166 | 1.8799 | 2.0502 | .49749 | .49522 | .47425 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5365.5** | **68384.** | **4239.2** |
| Stddev | 5.7 | 44. | 12.0 |
| %RSD | .10551 | .06506 | .28319 |
| #1 | 5361.5 | 68415. | 4247.7 |
| #2 | 5369.5 | 68353. | 4230.7 |

Sample Name: 280-41920-C-1-C MSD Acquired: 5/16/2013 19:03:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05595** | **1.9120** | **1.0374** | **4.0175** | **2.1589** | **.04743** | **2.0735** | **151.23** | **.10532** |
| Stddev | .00003 | .0022 | .0019 | .0021 | .0095 | .00003 | .0029 | 1.24 | .00017 |
| %RSD | .05804 | .11260 | .18781 | .05162 | .43852 | .05938 | .13788 | .81710 | .16262 |
| #1 | .05597 | 1.9135 | 1.0388 | 4.0190 | 2.1522 | .04741 | 2.0756 | 150.36 | .10520 |
| #2 | .05593 | 1.9105 | 1.0360 | 4.0161 | 2.1656 | .04745 | 2.0715 | 152.10 | .10544 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50735** | **.19540** | **.24845** | **1.0030** | **62.723** | **1.1151** | **111.25** | **.60203** | **.99590** |
| Stddev | .00061 | .00041 | .00079 | .0008 | .514 | .0121 | .35 | .00146 | .00013 |
| %RSD | .11994 | .21185 | .31874 | .08104 | .82004 | 1.0869 | .31886 | .24173 | .01276 |
| #1 | .50778 | .19569 | .24901 | 1.0024 | 62.359 | 1.1065 | 111.50 | .60306 | .99581 |
| #2 | .50692 | .19511 | .24789 | 1.0035 | 63.087 | 1.1236 | 111.00 | .60100 | .99599 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **524.57** | **.48731** | **11.550** | **.49518** | **214.31** | **.53357** | **2.1619** | **15.883** | **1.9130** |
| Stddev | 2.91 | .00001 | .004 | .00073 | .06 | .00077 | .0068 | .052 | .0004 |
| %RSD | .55522 | .00219 | .03153 | .14731 | .02844 | .14474 | .31552 | .32698 | .02114 |
| #1 | 522.51 | .48730 | 11.547 | .49570 | 214.36 | .53411 | 2.1667 | 15.846 | 1.9128 |
| #2 | 526.63 | .48732 | 11.552 | .49467 | 214.27 | .53302 | 2.1571 | 15.919 | 1.9133 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.278** | **1.0507** | **1.0130** | **1.8755** | **2.0582** | **.49518** | **.49286** | **.47187** |
| Stddev | .147 | .0031 | .0012 | .0015 | .0287 | .00338 | .00341 | .00027 |
| %RSD | 1.3017 | .29213 | .11517 | .08035 | 1.3941 | .68199 | .69112 | .05763 |
| #1 | 11.174 | 1.0529 | 1.0138 | 1.8766 | 2.0785 | .49757 | .49526 | .47168 |
| #2 | 11.382 | 1.0486 | 1.0121 | 1.8745 | 2.0379 | .49279 | .49045 | .47206 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5377.4** | **68326.** | **4234.2** |
| Stddev | 7.8 | 340. | 26.4 |
| %RSD | .14491 | .49818 | .62382 |
| #1 | 5382.9 | 68086. | 4252.9 |
| #2 | 5371.9 | 68567. | 4215.5 |

Sample Name: pds 280-41920-C-1-A  Acquired: 5/16/2013 19:06:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05349** | **1.0060** | **.21500** | **2.9575** | **.21654** | **.04832** | **-.00091** | **119.07** | **.05357** |
| Stddev | .00027 | .0015 | .00105 | .0025 | .00045 | .00009 | .00063 | 1.15 | .00023 |
| %RSD | .51016 | .14886 | .48850 | .08476 | .20862 | .18952 | 69.995 | .96597 | .43492 |
| #1 | .05329 | 1.0049 | .21426 | 2.9593 | .21622 | .04838 | -.00046 | 118.25 | .05373 |
| #2 | .05368 | 1.0070 | .21574 | 2.9558 | .21686 | .04825 | -.00135 | 119.88 | .05340 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05569** | **.05081** | **.05097** | **1.0836** | **30.284** | **.15950** | **80.724** | **.15518** | **.06944** |
| Stddev | .00003 | .00050 | .00066 | .0040 | .442 | .00172 | .040 | .00005 | .00020 |
| %RSD | .04588 | .97493 | 1.2864 | .37382 | 1.4599 | 1.0770 | .04969 | .02997 | .29036 |
| #1 | .05567 | .05046 | .05144 | 1.0807 | 29.971 | .15829 | 80.696 | .15521 | .06929 |
| #2 | .05571 | .05116 | .05051 | 1.0865 | 30.597 | .16071 | 80.752 | .15515 | .06958 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **474.11** | **.05250** | **2.7464** | **.10134** | **206.04** | **.10795** | **.21684** | **10.849** | **.09797** |
| Stddev | 4.76 | .00056 | .0040 | .00031 | .15 | .00114 | .00279 | .016 | .00024 |
| %RSD | 1.0040 | 1.0633 | .14529 | .30551 | .07056 | 1.0603 | 1.2885 | .14844 | .24935 |
| #1 | 470.74 | .05210 | 2.7436 | .10112 | 206.14 | .10876 | .21882 | 10.837 | .09814 |
| #2 | 477.48 | .05289 | 2.7492 | .10156 | 205.94 | .10714 | .21487 | 10.860 | .09780 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.8850** | **.21682** | **.05162** | **.19208** | **.49425** | **.05180** | **.21709** | **.05043** |
| Stddev | .0855 | .00149 | .00009 | .00041 | .01304 | .00090 | .00122 | .00024 |
| %RSD | .86453 | .68524 | .17066 | .21214 | 2.6379 | 1.7456 | .56329 | .48563 |
| #1 | 9.8246 | .21787 | .05169 | .19237 | .48503 | .05244 | .21795 | .05061 |
| #2 | 9.9454 | .21577 | .05156 | .19179 | .50347 | .05116 | .21622 | .05026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5435.6** | **68702.** | **4264.0** |
| Stddev | .2 | 214. | 3.6 |
| %RSD | .00321 | .31163 | .08537 |
| #1 | 5435.7 | 68853. | 4266.5 |
| #2 | 5435.5 | 68550. | 4261.4 |

Sample Name: 280-41920-E-3-A Acquired: 5/16/2013 19:08:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.00897** | **.00168** | **.21384** | **.06574** | **-.00001** | **-.00144** | **39.803** | **.00003** |
| Stddev | .00007 | .00011 | .00189 | .00043 | .00064 | .00009 | .00049 | .249 | .00012 |
| %RSD | 4.8790 | 1.2455 | 113.04 | .20323 | .97107 | 974.81 | 33.996 | .62631 | 355.68 |
| #1 | .00143 | .00905 | .00034 | .21353 | .06620 | -.00007 | -.00178 | 39.626 | -.00005 |
| #2 | .00153 | .00890 | .00301 | .21415 | .06529 | .00006 | -.00109 | 39.979 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00032** | **-.00019** | **.00562** | **10.857** | **.00563** | **3.6202** | **.01631** | **.00073** |
| Stddev | .00021 | .00008 | .00030 | .00119 | .020 | .00005 | .0028 | .00015 | .00015 |
| %RSD | 90.415 | 26.281 | 158.96 | 21.189 | .18180 | .94670 | .07628 | .90971 | 20.796 |
| #1 | .00038 | .00026 | -.00040 | .00646 | 10.871 | .00567 | 3.6182 | .01642 | .00084 |
| #2 | .00008 | .00038 | .00002 | .00477 | 10.843 | .00560 | 3.6222 | .01621 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.2450** | **10.448** | **.00071** | **.17324** | **.00240** | **5.6081** | **-.00145** | **.00111** | **1.5643** |
| Stddev | .0274 | .132 | .00028 | .00157 | .00036 | .0143 | .00009 | .00025 | .0263 |
| %RSD | .29678 | 1.2611 | 39.273 | .90614 | 15.208 | .25527 | 6.4041 | 22.220 | 1.6846 |
| #1 | 9.2256 | 10.355 | .00051 | .17213 | .00214 | 5.5980 | -.00138 | .00094 | 1.5829 |
| #2 | 9.2644 | 10.541 | .00091 | .17435 | .00266 | 5.6182 | -.00151 | .00129 | 1.5456 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.31658** | **.00073** | **-.00037** | **-.00188** | **-.03082** | **-.00115** | **.01502** | **.00245** |
| Stddev | .00078 | .00097 | .00067 | .00005 | .00029 | .00531 | .00041 | .00043 | .00285 |
| %RSD | 196.98 | .30623 | 92.480 | 13.442 | 15.137 | 17.219 | 35.422 | 2.8459 | 116.62 |
| #1 | -.00016 | .31589 | .00120 | -.00041 | -.00168 | -.02707 | -.00143 | .01472 | .00043 |
| #2 | .00095 | .31726 | .00025 | -.00034 | -.00208 | -.03457 | -.00086 | .01532 | .00446 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5612.0** | **69711.** | **4216.2** |
| Stddev | 1.0 | 254. | 14.7 |
| %RSD | .01790 | .36452 | .34809 |
| #1 | 5612.7 | 69531. | 4226.6 |
| #2 | 5611.3 | 69891. | 4205.8 |

Sample Name: 280-41920-B-5-A Acquired: 5/16/2013 19:11:19 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00189** | **.01615** | **.00139** | **.09423** | **.04855** | **-.00006** | **-.00186** | **36.900** | **.00020** |
| Stddev | .00030 | .00005 | .00170 | .00072 | .00056 | .00007 | .00023 | .238 | .00015 |
| %RSD | 15.813 | .29093 | 122.00 | .76819 | 1.1457 | 122.37 | 12.604 | .64556 | 74.101 |
| #1 | .00168 | .01618 | .00019 | .09474 | .04894 | -.00011 | -.00202 | 37.069 | .00030 |
| #2 | .00210 | .01611 | .00259 | .09372 | .04816 | -.00001 | -.00169 | 36.732 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00030** | **.00261** | **.00975** | **9.4171** | **.00291** | **2.9817** | **.00313** | **.00404** |
| Stddev | .00006 | .00015 | .00017 | .00271 | .0287 | .00028 | .0115 | .00000 | .00006 |
| %RSD | 14.768 | 48.189 | 6.6608 | 27.795 | .30451 | 9.5381 | .38610 | .11594 | 1.4397 |
| #1 | .00038 | .00020 | .00249 | .00784 | 9.4374 | .00271 | 2.9898 | .00313 | .00409 |
| #2 | .00047 | .00041 | .00273 | .01167 | 9.3969 | .00310 | 2.9736 | .00312 | .00400 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.4422** | **10.391** | **.00080** | **.19234** | **.00132** | **6.2778** | **-.00095** | **.00337** | **2.6589** |
| Stddev | .1043 | .776 | .00005 | .00058 | .00072 | .0210 | .00023 | .00044 | .0288 |
| %RSD | 1.1050 | 7.4710 | 6.0847 | .30069 | 54.870 | .33487 | 24.068 | 12.894 | 1.0833 |
| #1 | 9.5160 | 9.8420 | .00084 | .19275 | .00183 | 6.2927 | -.00112 | .00307 | 2.6792 |
| #2 | 9.3684 | 10.940 | .00077 | .19193 | .00081 | 6.2629 | -.00079 | .00368 | 2.6385 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.41016** | **.00341** | **-.00025** | **-.00174** | **-.04740** | **-.00069** | **.04523** | **.00132** |
| Stddev | .00068 | .00209 | .00164 | .00013 | .00021 | .02081 | .00033 | .00019 | .00086 |
| %RSD | 133.51 | .50892 | 48.175 | 53.309 | 12.200 | 43.891 | 47.637 | .41099 | 65.421 |
| #1 | -.00099 | .41164 | .00458 | -.00015 | -.00159 | -.06211 | -.00046 | .04510 | .00071 |
| #2 | -.00003 | .40869 | .00225 | -.00034 | -.00189 | -.03269 | -.00092 | .04536 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5640.3** | **70349.** | **4190.6** |
| Stddev | 2.1 | 290. | 20.5 |
| %RSD | .03653 | .41189 | .48887 |
| #1 | 5638.8 | 70144. | 4176.1 |
| #2 | 5641.7 | 70554. | 4205.1 |

Sample Name: 280-41920-B-6-A Acquired: 5/16/2013 19:13:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00112** | **.04153** | **.00416** | **.08485** | **.04179** | **-.00011** | **-.00390** | **29.693** | **.00013** |
| Stddev | .00013 | .00006 | .00033 | .00046 | .00004 | .00005 | .00234 | .199 | .00013 |
| %RSD | 11.775 | .14674 | 7.9029 | .54148 | .10155 | 48.533 | 60.070 | .67171 | 95.839 |
| #1 | .00121 | .04148 | .00439 | .08453 | .04182 | -.00014 | -.00555 | 29.552 | .00004 |
| #2 | .00102 | .04157 | .00392 | .08518 | .04176 | -.00007 | -.00224 | 29.834 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00052** | **.00730** | **.04194** | **7.8415** | **.00142** | **1.6215** | **.00482** | **.00499** |
| Stddev | .00003 | .00014 | .00004 | .00079 | .0744 | .00038 | .0032 | .00006 | .00023 |
| %RSD | 23.265 | 26.327 | .59125 | 1.8726 | .94890 | 26.979 | .19948 | 1.2069 | 4.6591 |
| #1 | .00013 | .00042 | .00727 | .04249 | 7.7889 | .00169 | 1.6238 | .00478 | .00515 |
| #2 | .00010 | .00062 | .00733 | .04138 | 7.8941 | .00115 | 1.6192 | .00486 | .00483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.8610** | **.00127** | **.31124** | **.00213** | **6.0565** | **.00004** | **.00023** | **2.6553** | **-.00018** |
| Stddev | .0230 | .00002 | .00394 | .00119 | .0269 | .00028 | .00435 | .0190 | .00043 |
| %RSD | .39247 | 1.6435 | 1.2667 | 55.759 | .44390 | 638.33 | 1920.3 | .71411 | 233.59 |
| #1 | 5.8448 | .00129 | .30846 | .00129 | 6.0375 | .00024 | .00330 | 2.6419 | -.00048 |
| #2 | 5.8773 | .00126 | .31403 | .00297 | 6.0755 | -.00015 | -.00285 | 2.6688 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23118** | **.00212** | **.00030** | **-.00116** | **-.04526** | **-.00008** | **.03164** | **.00234** |
| Stddev | .00179 | .00402 | .00020 | .00142 | .05529 | .00022 | .00002 | .00090 |
| %RSD | .77267 | 189.74 | 67.455 | 122.84 | 122.14 | 267.58 | .06651 | 38.415 |
| #1 | .22992 | -.00072 | .00016 | -.00216 | -.08436 | -.00024 | .03163 | .00170 |
| #2 | .23245 | .00496 | .00044 | -.00015 | -.00617 | .00007 | .03166 | .00297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5674.0** | **71379.** | **4244.4** |
| Stddev | 7.7 | 304. | 18.5 |
| %RSD | .13649 | .42620 | .43564 |
| #1 | 5679.5 | 71164. | 4257.5 |
| #2 | 5668.5 | 71594. | 4231.3 |

Sample Name: 280-41920-B-8-A Acquired: 5/16/2013 19:16:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173278 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **.01049** | **.00354** | **.07959** | **.03935** | **-.00005** | **.00071** | **28.469** | **.00011** |
| Stddev | .00007 | .00033 | .00008 | .00052 | .00019 | .00003 | .00031 | .100 | .00010 |
| %RSD | 3.9323 | 3.1794 | 2.2623 | .65495 | .47529 | 64.941 | 43.272 | .35173 | 88.134 |
| #1 | .00179 | .01025 | .00359 | .07922 | .03948 | -.00003 | .00050 | 28.540 | .00019 |
| #2 | .00169 | .01072 | .00348 | .07995 | .03922 | -.00008 | .00093 | 28.398 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00051** | **.00676** | **.01677** | **7.5655** | **.00036** | **1.5744** | **.00621** | **.00480** |
| Stddev | .00009 | .00008 | .00021 | .00053 | .0876 | .00261 | .0030 | .00006 | .00030 |
| %RSD | 32.721 | 15.328 | 3.1128 | 3.1356 | 1.1576 | 718.35 | .19257 | 1.0065 | 6.1614 |
| #1 | .00021 | .00056 | .00691 | .01640 | 7.6274 | -.00148 | 1.5765 | .00617 | .00459 |
| #2 | .00034 | .00045 | .00661 | .01714 | 7.5036 | .00221 | 1.5722 | .00625 | .00501 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.5754** | **.00152** | **.24461** | **.00127** | **5.8642** | **.00189** | **.00130** | **2.4999** | **.00003** |
| Stddev | .0496 | .00021 | .00341 | .00023 | .0614 | .00215 | .00241 | .0002 | .00049 |
| %RSD | .88887 | 13.650 | 1.3960 | 17.814 | 1.0471 | 113.85 | 184.81 | .00885 | 1567.9 |
| #1 | 5.6105 | .00137 | .24219 | .00143 | 5.8208 | .00037 | .00300 | 2.4997 | .00038 |
| #2 | 5.5404 | .00167 | .24702 | .00111 | 5.9076 | .00341 | -.00040 | 2.5001 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21764** | **.00359** | **-.00014** | **-.00069** | **-.02641** | **-.00013** | **.02670** | **-.00024** |
| Stddev | .00061 | .00185 | .00012 | .00133 | .04701 | .00052 | .00003 | .00199 |
| %RSD | .28258 | 51.545 | 86.931 | 193.09 | 178.03 | 402.57 | .11412 | 834.20 |
| #1 | .21807 | .00490 | -.00005 | .00025 | -.05965 | -.00049 | .02672 | -.00164 |
| #2 | .21720 | .00228 | -.00022 | -.00163 | .00684 | .00024 | .02667 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5688.3** | **71399.** | **4306.3** |
| Stddev | 41.5 | 141. | 16.3 |
| %RSD | .72960 | .19812 | .37867 |
| #1 | 5717.7 | 71499. | 4294.8 |
| #2 | 5659.0 | 71299. | 4317.9 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 19:18:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **49.121** | **-.00041** | **.00380** | **-.00030** | **-.00008** | **.99056** | **-.00241** | **-.00080** | **.00206** | **.00023** | **-.00277** | **46.771** |
| Stddev | .00011 | .034 | .00100 | .00086 | .00072 | .00001 | .00080 | .00040 | .00002 | .00004 | .00006 | .00014 | .381 |
| %RSD | 37.756 | .06881 | 242.95 | 22.691 | 240.95 | 11.097 | .08089 | 16.493 | 2.0283 | 1.8844 | 27.173 | 4.9184 | .81402 |
| #1 | .00037 | 49.097 | .00030 | .00441 | -.00081 | -.00009 | .99112 | -.00269 | -.00082 | .00209 | .00027 | -.00268 | 47.041 |
| #2 | .00022 | 49.144 | -.00112 | .00319 | .00021 | -.00008 | .98999 | -.00213 | -.00079 | .00204 | .00019 | -.00287 | 46.502 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07913** | **-.00082** | **.00770** | **-.00024** | **-.00233** | **263.89** | **.00159** | **.00651** | **.00215** | **5.0962** | **-.00226** | **.00506** | **.01267** |
| Stddev | .06883 | .00169 | .00120 | .00001 | .00017 | .10 | .00011 | .00168 | .00123 | .0066 | .00029 | .00339 | .00008 |
| %RSD | 86.978 | 205.93 | 15.529 | 2.2563 | 7.2521 | .03949 | 7.2008 | 25.774 | 57.340 | .12880 | 12.957 | 67.020 | .60777 |
| #1 | .12780 | -.00202 | .00686 | -.00023 | -.00221 | 263.82 | .00151 | .00533 | .00302 | 5.0915 | -.00246 | .00266 | .01273 |
| #2 | .03046 | .00037 | .00855 | -.00024 | -.00245 | 263.97 | .00167 | .00770 | .00128 | 5.1008 | -.00205 | .00746 | .01262 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.00036** | **5.1710** | **.00318** | **-.00082** | **10.046** | **-.00195** | **.00275** | **-.05701** |
| Stddev | .00038 | .00002 | .0232 | .00034 | .00009 | .034 | .00064 | .00019 | .00266 |
| %RSD | 53.963 | 4.9800 | .44844 | 10.764 | 10.622 | .34171 | 32.972 | 6.7259 | 4.6716 |
| #1 | .00097 | .00037 | 5.1874 | .00342 | -.00076 | 10.070 | -.00150 | .00289 | -.05513 |
| #2 | .00043 | .00035 | 5.1546 | .00294 | -.00088 | 10.022 | -.00241 | .00262 | -.05890 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5509.6** | **69134.** | **4145.5** |
| Stddev | 8.1 | 393. | 9.6 |
| %RSD | .14762 | .56878 | .23188 |
| #1 | 5515.3 | 68856. | 4138.7 |
| #2 | 5503.8 | 69412. | 4152.3 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 19:21:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50742** | **.49700** | **.97717** | **.51637** | **.49606** | **.46261** | **.00463** | **4.8179** | **.49608** | **.50604** | **.48396** | **.47898** | **2.2644** |
| Stddev | .00089 | .00082 | .00134 | .00039 | .00344 | .00277 | .00061 | .0184 | .00004 | .00072 | .00083 | .00113 | .0104 |
| %RSD | .17601 | .16429 | .13662 | .07554 | .69335 | .59862 | 13.106 | .38207 | .00717 | .14223 | .17123 | .23668 | .45815 |
| #1 | .50805 | .49642 | .97623 | .51610 | .49363 | .46065 | .00506 | 4.8049 | .49606 | .50553 | .48338 | .47978 | 2.2571 |
| #2 | .50678 | .49757 | .97811 | .51665 | .49849 | .46457 | .00420 | 4.8309 | .49611 | .50655 | .48455 | .47818 | 2.2718 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.872** | **1.0423** | **19.353** | **.49681** | **.47359** | **5.0651** | **.49417** | **1.0165** | **1.0011** | **-.02231** | **.99914** | **1.0278** | **4.6026** |
| Stddev | .316 | .0012 | .041 | .00030 | .00156 | .0384 | .00138 | .0055 | .0013 | .00097 | .00450 | .0035 | .0382 |
| %RSD | .61012 | .11722 | .21236 | .06052 | .32843 | .75875 | .27846 | .53888 | .13126 | 4.3287 | .45004 | .33660 | .82954 |
| #1 | 51.648 | 1.0414 | 19.382 | .49702 | .47469 | 5.0379 | .49514 | 1.0204 | 1.0021 | -.02299 | 1.0023 | 1.0302 | 4.5756 |
| #2 | 52.096 | 1.0432 | 19.324 | .49659 | .47250 | 5.0922 | .49319 | 1.0127 | 1.0002 | -.02163 | .99596 | 1.0253 | 4.6296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94743** | **.51428** | **.00184** | **.49387** | **.95612** | **-.01546** | **.47874** | **.48820** | **.47530** |
| Stddev | .00563 | .00371 | .00075 | .00023 | .00140 | .01199 | .00303 | .00145 | .00025 |
| %RSD | .59372 | .72105 | 40.866 | .04561 | .14685 | 77.549 | .63348 | .29653 | .05294 |
| #1 | .94345 | .51165 | .00131 | .49403 | .95513 | -.02393 | .48088 | .48922 | .47548 |
| #2 | .95140 | .51690 | .00237 | .49371 | .95711 | -.00698 | .47659 | .48717 | .47512 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5563.4** | **69751.** | **4178.1** |
| Stddev | 4.6 | 111. | 22.4 |
| %RSD | .08202 | .15886 | .53595 |
| #1 | 5566.7 | 69673. | 4193.9 |
| #2 | 5560.2 | 69830. | 4162.3 |

Sample Name: CCB Acquired: 5/16/2013 19:23:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00118** | **-.00013** | W **.00478** | W **.00305** | **.00019** | **.00001** | **-.00340** | **-.00608** | **.00008** | **.00010** | **.00015** |
| Stddev | .00016 | .00009 | .00034 | .00018 | .00030 | .00005 | .00038 | .00205 | .00005 | .00007 | .00004 |
| %RSD | 13.166 | 70.010 | 7.0469 | 5.9825 | 157.09 | 738.13 | 11.197 | 33.672 | 68.374 | 74.190 | 23.939 |
| #1 | .00107 | -.00019 | .00454 | .00292 | .00041 | -.00003 | -.00367 | -.00753 | .00012 | .00005 | .00018 |
| #2 | .00129 | -.00006 | .00502 | .00318 | -.00002 | .00004 | -.00313 | -.00463 | .00004 | .00015 | .00013 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | .00440 | .00156 | | | | | | | |
| Low Limit | -.00093 | | -.00440 | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00182** | **-.00567** | **.13005** | **-.00256** | **-.00171** | **-.00006** | **-.00016** | F **.13348** | **-.00035** | **.00051** | **.00084** |
| Stddev | .00032 | .00109 | .03825 | .00089 | .00132 | .00001 | .00033 | .00068 | .00009 | .00042 | .00004 |
| %RSD | 17.312 | 19.183 | 29.416 | 34.843 | 77.097 | 22.273 | 204.65 | .51040 | 24.727 | 82.260 | 4.3558 |
| #1 | -.00160 | -.00644 | .10300 | -.00193 | -.00078 | -.00008 | -.00039 | .13396 | -.00029 | .00021 | .00086 |
| #2 | -.00204 | -.00490 | .15710 | -.00319 | -.00264 | -.00005 | .00007 | .13300 | -.00041 | .00080 | .00081 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | | | | | .10000 | | | |
| Low Limit | -.00136 | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02659** | **-.00053** | **-.00156** | **-.01156** | **.00053** | **-.00003** | **.00257** | **-.00026** | **-.00224** | **-.00734** | **-.00078** |
| Stddev | .00059 | .00082 | .00222 | .00427 | .00003 | .00000 | .00234 | .00003 | .00029 | .02709 | .00045 |
| %RSD | 2.2007 | 153.36 | 141.78 | 36.965 | 5.6155 | 3.8801 | 90.759 | 10.713 | 12.980 | 368.78 | 57.337 |
| #1 | -.02700 | .00005 | -.00313 | -.01458 | .00051 | -.00003 | .00423 | -.00024 | -.00245 | -.02650 | -.00046 |
| #2 | -.02617 | -.00111 | .00000 | -.00854 | .00055 | -.00003 | .00092 | -.00028 | -.00203 | .01181 | -.00109 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00160** | W **.00388** |
| Stddev | .00026 | .00014 |
| %RSD | 16.425 | 3.5109 |
| #1 | .00141 | .00378 |
| #2 | .00178 | .00398 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5578.9** | **70023.** | **4126.8** |
| Stddev | 7.6 | 177. | 13.5 |
| %RSD | .13558 | .25313 | .32652 |
| #1 | 5584.3 | 69898. | 4117.2 |
| #2 | 5573.6 | 70148. | 4136.3 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 19:25:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01168** | **.10210** | **.01643** | **.10458** | **.00962** | **.00086** | **.10279** | **.19137** | **.00518** | **.01072** | **.00982** |
| Stddev | .00080 | .00010 | .00115 | .00018 | .00029 | .00005 | .00205 | .00119 | .00010 | .00031 | .00007 |
| %RSD | 6.8907 | .09859 | 6.9714 | .17413 | 3.0568 | 5.8002 | 1.9914 | .62289 | 1.8517 | 2.8499 | .69918 |
| #1 | .01225 | .10203 | .01724 | .10470 | .00982 | .00089 | .10424 | .19053 | .00525 | .01094 | .00987 |
| #2 | .01111 | .10218 | .01562 | .10445 | .00941 | .00082 | .10134 | .19221 | .00511 | .01050 | .00977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01343** | **.08618** | **3.2734** | F **.00617** | **.20492** | **.01015** | **.01852** | **1.1139** | **.04046** | **2.9788** | **.00999** |
| Stddev | .00031 | .00455 | .0040 | .00010 | .00359 | .00009 | .00004 | .0047 | .00012 | .0072 | .00143 |
| %RSD | 2.2738 | 5.2851 | .12337 | 1.6650 | 1.7533 | .90273 | .21208 | .42268 | .28531 | .24061 | 14.323 |
| #1 | .01322 | .08296 | 3.2705 | .00610 | .20746 | .01021 | .01855 | 1.1173 | .04054 | 2.9838 | .00898 |
| #2 | .01365 | .08940 | 3.2763 | .00625 | .20238 | .01008 | .01849 | 1.1106 | .04038 | 2.9737 | .01100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02817** | **.00898** | W **.01819** | **.46867** | **.09547** | **.01046** | **.01759** | **.00947** | **.01362** | W **.04644** | **.00897** |
| Stddev | .00179 | .00042 | .00234 | .00394 | .00004 | .00020 | .00247 | .00013 | .00094 | .03084 | .00003 |
| %RSD | 6.3643 | 4.6585 | 12.883 | .84167 | .04321 | 1.9017 | 14.064 | 1.3329 | 6.8907 | 66.405 | .37580 |
| #1 | -.02690 | .00869 | .01985 | .47146 | .09545 | .01060 | .01934 | .00956 | .01428 | .02464 | .00899 |
| #2 | -.02944 | .00928 | .01653 | .46588 | .09550 | .01032 | .01584 | .00939 | .01296 | .06825 | .00894 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | 20.000% | | | | | | | -20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02253** | **.01555** |
| Stddev | .00042 | .00017 |
| %RSD | 1.8809 | 1.0789 |
| #1 | .02283 | .01566 |
| #2 | .02223 | .01543 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5674.5** | **70883.** | **4187.6** |
| Stddev | 7.8 | 34. | 6.6 |
| %RSD | .13671 | .04818 | .15746 |
| #1 | 5680.0 | 70859. | 4192.3 |
| #2 | 5669.0 | 70907. | 4183.0 |

Sample Name: MB 280-173277/1-A Acquired: 5/16/2013 19:28:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00152** | **.00266** | **.00367** | **.00235** | **-.00036** | **.00007** | **-.00252** | **.01092** | **-.00010** |
| Stddev | .00112 | .00011 | .00121 | .00011 | .00045 | .00006 | .00069 | .00190 | .00004 |
| %RSD | 73.447 | 4.0113 | 32.899 | 4.6508 | 123.50 | 87.575 | 27.302 | 17.414 | 37.383 |
| #1 | .00073 | .00273 | .00452 | .00243 | -.00068 | .00003 | -.00300 | .01226 | -.00007 |
| #2 | .00231 | .00258 | .00282 | .00227 | -.00005 | .00011 | -.00203 | .00957 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00010** | **-.00128** | **-.00364** | **-.00123** | **-.00171** | **.00876** | **.00004** | **-.00023** |
| Stddev | .00016 | .00017 | .00010 | .00306 | .01664 | .00169 | .00184 | .00000 | .00009 |
| %RSD | 82.078 | 167.81 | 7.9106 | 84.080 | 1350.8 | 98.714 | 21.027 | 9.3721 | 41.229 |
| #1 | .00008 | -.00002 | -.00120 | -.00148 | -.01300 | -.00052 | .00746 | .00005 | -.00016 |
| #2 | .00030 | .00022 | -.00135 | -.00580 | .01053 | -.00290 | .01006 | .00004 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09803** | **-.00010** | F **.17537** | **.00053** | **-.02570** | **-.00119** | **.00084** | **.01543** | **-.00047** |
| Stddev | .01828 | .00008 | .00116 | .00122 | .00138 | .00182 | .00134 | .00293 | .00006 |
| %RSD | 18.644 | 86.463 | .66255 | 231.85 | 5.3695 | 152.23 | 159.43 | 19.008 | 11.760 |
| #1 | .11095 | -.00016 | .17454 | -.00034 | -.02473 | -.00248 | .00179 | .01751 | -.00043 |
| #2 | .08510 | -.00004 | .17619 | .00139 | -.02668 | .00009 | -.00011 | .01336 | -.00051 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00251** | **-.00050** | **-.00198** | **-.01142** | **-.00101** | **.00244** | **.00260** |
| Stddev | .00002 | .00125 | .00011 | .00081 | .00921 | .00011 | .00008 | .00106 |
| %RSD | 285.04 | 49.583 | 23.021 | 40.835 | 80.662 | 10.898 | 3.2970 | 40.827 |
| #1 | .00001 | .00163 | -.00058 | -.00141 | -.00491 | -.00108 | .00250 | .00335 |
| #2 | -.00002 | .00339 | -.00042 | -.00255 | -.01793 | -.00093 | .00239 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5686.9** | **70897.** | **4235.6** |
| Stddev | 7.9 | 234. | 7.3 |
| %RSD | .13956 | .33064 | .17237 |
| #1 | 5681.3 | 70731. | 4230.5 |
| #2 | 5692.5 | 71062. | 4240.8 |

Sample Name: LCS 280-173277/2-A Acquired: 5/16/2013 19:30:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05261** | **1.9171** | **.98394** | **1.0378** | **2.0022** | **.04694** | **1.9876** | **46.954** | **.10078** |
| Stddev | .00026 | .0049 | .00406 | .0019 | .0038 | .00023 | .0025 | .001 | .00024 |
| %RSD | .49148 | .25302 | .41267 | .17787 | .19111 | .47998 | .12455 | .00281 | .23622 |
| #1 | .05279 | 1.9136 | .98681 | 1.0364 | 1.9995 | .04678 | 1.9859 | 46.953 | .10061 |
| #2 | .05242 | 1.9205 | .98107 | 1.0391 | 2.0049 | .04710 | 1.9894 | 46.955 | .10095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49556** | **.19356** | **.23725** | **.89902** | **51.905** | **1.0321** | **47.913** | **.48867** | **.94985** |
| Stddev | .00045 | .00071 | .00027 | .00154 | .039 | .0008 | .081 | .00151 | .00036 |
| %RSD | .09013 | .36869 | .11558 | .17162 | .07417 | .07834 | .16976 | .30805 | .03774 |
| #1 | .49588 | .19407 | .23706 | .90011 | 51.878 | 1.0326 | 47.856 | .48761 | .94960 |
| #2 | .49524 | .19306 | .23745 | .89793 | 51.932 | 1.0315 | 47.971 | .48974 | .95010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.668** | **.48185** | **10.449** | **.49296** | **-.03424** | **.50586** | **2.0656** | F **9.2465** | **1.8926** |
| Stddev | .124 | .00012 | .012 | .00040 | .00165 | .00301 | .0057 | .0359 | .0090 |
| %RSD | .23028 | .02523 | .11934 | .08082 | 4.8110 | .59577 | .27752 | .38809 | .47319 |
| #1 | 53.580 | .48194 | 10.458 | .49268 | -.03307 | .50799 | 2.0697 | 9.2718 | 1.8990 |
| #2 | 53.755 | .48176 | 10.441 | .49324 | -.03540 | .50373 | 2.0616 | 9.2211 | 1.8863 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 11.500 | |
| Low Limit | | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0207** | **1.0194** | **.98494** | **1.9114** | **2.0054** | **.48116** | **.47961** | **.46241** |
| Stddev | .0018 | .0032 | .00306 | .0026 | .0138 | .00103 | .00066 | .00545 |
| %RSD | .17238 | .31679 | .31103 | .13530 | .68997 | .21464 | .13860 | 1.1795 |
| #1 | 1.0194 | 1.0171 | .98277 | 1.9132 | 2.0152 | .48189 | .47914 | .46627 |
| #2 | 1.0219 | 1.0217 | .98710 | 1.9096 | 1.9956 | .48043 | .48008 | .45855 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5508.0** | **69586.** | **4174.2** |
| Stddev | 8.1 | 41. | 5.4 |
| %RSD | .14648 | .05846 | .12834 |
| #1 | 5502.3 | 69557. | 4178.0 |
| #2 | 5513.7 | 69614. | 4170.4 |

Sample Name: 280-41909-A-6-A  Acquired: 5/16/2013 19:32:56  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00141** | **.00310** | **.00114** | **.04145** | **.11998** | **.00000** | **-.00040** | **62.125** | **.00018** |
| Stddev | .00029 | .00033 | .00251 | .00050 | .00041 | .00011 | .00132 | .039 | .00012 |
| %RSD | 20.258 | 10.642 | 220.01 | 1.2134 | .34062 | 3188.1 | 328.37 | .06204 | 67.858 |
| #1 | .00161 | .00333 | -.00063 | .04180 | .11969 | -.00008 | -.00134 | 62.152 | .00026 |
| #2 | .00121 | .00287 | .00291 | .04109 | .12027 | .00008 | .00053 | 62.098 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00018** | **-.00024** | **2.0336** | **8.0900** | **.00319** | **23.387** | **.79075** | **.00037** |
| Stddev | .00031 | .00024 | .00044 | .0105 | .0615 | .00125 | .062 | .00142 | .00012 |
| %RSD | 279.26 | 131.78 | 185.25 | .51818 | .76006 | 39.181 | .26509 | .17900 | 32.669 |
| #1 | -.00011 | .00001 | .00007 | 2.0410 | 8.1335 | .00407 | 23.431 | .79175 | .00045 |
| #2 | .00033 | .00035 | -.00055 | 2.0261 | 8.0465 | .00231 | 23.344 | .78975 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.019** | **.00046** | **.18269** | **.00287** | **25.293** | **-.00066** | **.00307** | **3.2847** | **.00066** |
| Stddev | .002 | .00047 | .00285 | .00146 | .021 | .00080 | .00112 | .0068 | .00025 |
| %RSD | .01595 | 101.55 | 1.5610 | 50.749 | .08228 | 121.32 | 36.465 | .20798 | 37.371 |
| #1 | 15.021 | .00080 | .18470 | .00390 | 25.307 | -.00122 | .00387 | 3.2799 | .00083 |
| #2 | 15.018 | .00013 | .18067 | .00184 | 25.278 | -.00009 | .00228 | 3.2896 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50260** | **.00022** | **-.00039** | **-.00215** | **-.01114** | **-.00092** | **.05086** | **.00221** |
| Stddev | .00017 | .00176 | .00033 | .00136 | .00992 | .00004 | .00013 | .00161 |
| %RSD | .03476 | 806.19 | 84.494 | 63.355 | 89.055 | 4.4051 | .26145 | 72.749 |
| #1 | .50248 | .00147 | -.00062 | -.00119 | -.01815 | -.00095 | .05077 | .00334 |
| #2 | .50273 | -.00103 | -.00016 | -.00311 | -.00412 | -.00089 | .05096 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5582.8** | **70277.** | **4226.8** |
| Stddev | 27.7 | 145. | 9.9 |
| %RSD | .49589 | .20685 | .23356 |
| #1 | 5563.2 | 70175. | 4219.8 |
| #2 | 5602.4 | 70380. | 4233.8 |

Sample Name: 280-41909-A-7-A Acquired: 5/16/2013 19:35:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **.02834** | **.00262** | **.07686** | **.14258** | **-.00010** | **-.00306** | **67.847** | **.00036** |
| Stddev | .00048 | .00057 | .00260 | .00020 | .00031 | .00007 | .00151 | .220 | .00002 |
| %RSD | 35.785 | 1.9959 | 99.200 | .26316 | .22023 | 73.393 | 49.376 | .32364 | 6.8003 |
| #1 | .00101 | .02874 | .00446 | .07700 | .14281 | -.00005 | -.00413 | 67.692 | .00038 |
| #2 | .00169 | .02794 | .00078 | .07671 | .14236 | -.00015 | -.00199 | 68.002 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00037** | **.00379** | **.09862** | **14.901** | **.00332** | **35.821** | **.06055** | **.00182** |
| Stddev | .00016 | .00008 | .00003 | .00311 | .023 | .00047 | .029 | .00010 | .00003 |
| %RSD | 84.812 | 20.669 | .91404 | 3.1485 | .15243 | 14.044 | .07963 | .15859 | 1.7260 |
| #1 | .00008 | .00031 | .00381 | .09643 | 14.884 | .00365 | 35.841 | .06048 | .00184 |
| #2 | .00031 | .00042 | .00376 | .10082 | 14.917 | .00299 | 35.800 | .06062 | .00180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.152** | **.00157** | **.23268** | **.00194** | **49.099** | **-.00009** | **.00190** | **3.0359** | **.00029** |
| Stddev | .171 | .00006 | .00187 | .00050 | .078 | .00015 | .00156 | .0415 | .00099 |
| %RSD | .68177 | 3.5778 | .80342 | 25.689 | .15959 | 172.80 | 81.956 | 1.3662 | 335.64 |
| #1 | 25.031 | .00161 | .23401 | .00229 | 49.044 | .00002 | .00080 | 3.0066 | .00099 |
| #2 | 25.274 | .00153 | .23136 | .00159 | 49.155 | -.00019 | .00300 | 3.0652 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55874** | **.00334** | **-.00000** | **-.00068** | **-.04136** | **-.00026** | **.09232** | **.00287** |
| Stddev | .00247 | .00040 | .00019 | .00153 | .04219 | .00025 | .00140 | .00087 |
| %RSD | .44171 | 12.103 | 75343. | 225.49 | 102.01 | 95.495 | 1.5164 | 30.320 |
| #1 | .55700 | .00363 | .00013 | -.00176 | -.01153 | -.00044 | .09331 | .00349 |
| #2 | .56049 | .00305 | -.00013 | .00040 | -.07119 | -.00009 | .09133 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5589.5** | **70848.** | **4250.8** |
| Stddev | 4.8 | 11. | 28.0 |
| %RSD | .08668 | .01600 | .65777 |
| #1 | 5586.0 | 70840. | 4270.6 |
| #2 | 5592.9 | 70856. | 4231.1 |

Sample Name: 280-41909-A-9-A Acquired: 5/16/2013 19:37:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00115** | **.00409** | **.00333** | **.03875** | **.11871** | **-.00005** | **-.00007** | **62.082** | **.00002** |
| Stddev | .00105 | .00042 | .00069 | .00025 | .00118 | .00004 | .00215 | .222 | .00010 |
| %RSD | 91.517 | 10.237 | 20.550 | .64686 | .99215 | 89.016 | 3039.8 | .35779 | 598.41 |
| #1 | .00041 | .00439 | .00285 | .03893 | .11788 | -.00002 | .00145 | 61.925 | -.00005 |
| #2 | .00190 | .00379 | .00382 | .03858 | .11955 | -.00008 | -.00159 | 62.239 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00029** | **-.00086** | **1.9903** | **7.9303** | **.00169** | **23.081** | **.77973** | **.00008** |
| Stddev | .00021 | .00020 | .00051 | .0027 | .0195 | .00042 | .072 | .00165 | .00000 |
| %RSD | 62.914 | 69.565 | 59.410 | .13509 | .24596 | 24.797 | .31109 | .21178 | .08161 |
| #1 | .00018 | .00014 | -.00050 | 1.9884 | 7.9165 | .00199 | 23.132 | .78090 | .00008 |
| #2 | .00048 | .00043 | -.00121 | 1.9922 | 7.9441 | .00139 | 23.030 | .77857 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.969** | **.00049** | **.18212** | **.00163** | **24.948** | **.00021** | **.00396** | **3.2494** | **.00079** |
| Stddev | .588 | .00019 | .00451 | .00067 | .024 | .00102 | .00238 | .0033 | .00030 |
| %RSD | 3.9287 | 38.587 | 2.4762 | 40.977 | .09483 | 487.20 | 60.167 | .10095 | 37.343 |
| #1 | 14.554 | .00036 | .17893 | .00116 | 24.965 | -.00051 | .00228 | 3.2518 | .00100 |
| #2 | 15.385 | .00062 | .18531 | .00210 | 24.932 | .00093 | .00565 | 3.2471 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50191** | **.00268** | **.00009** | **-.00136** | **-.03732** | **-.00086** | **.04637** | **-.00124** |
| Stddev | .00072 | .00000 | .00056 | .00004 | .02231 | .00003 | .00007 | .00282 |
| %RSD | .14370 | .12115 | 620.18 | 3.2652 | 59.791 | 3.0009 | .14758 | 227.14 |
| #1 | .50140 | .00268 | .00048 | -.00139 | -.05310 | -.00088 | .04633 | .00075 |
| #2 | .50242 | .00268 | -.00030 | -.00133 | -.02154 | -.00084 | .04642 | -.00324 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5626.6** | **70947.** | **4223.5** |
| Stddev | 5.1 | 74. | 9.5 |
| %RSD | .09120 | .10412 | .22579 |
| #1 | 5623.0 | 70895. | 4230.3 |
| #2 | 5630.2 | 71000. | 4216.8 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 19:40:14 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **48.332** | **.00271** | **.00120** | **-.00020** | **-.00009** | **.99051** | **-.00121** | **-.00068** | **.00197** | **.00019** | **-.00172** | **46.292** |
| Stddev | .00094 | .127 | .00042 | .00023 | .00004 | .00000 | .00586 | .00097 | .00007 | .00024 | .00005 | .00012 | .050 |
| %RSD | 145.49 | .26373 | 15.521 | 19.551 | 20.732 | 2.3897 | .59148 | 79.584 | 11.026 | 12.073 | 29.184 | 7.2299 | .10700 |
| #1 | -.00002 | 48.242 | .00301 | .00103 | -.00022 | -.00009 | .98636 | -.00190 | -.00073 | .00180 | .00015 | -.00181 | 46.257 |
| #2 | .00131 | 48.422 | .00242 | .00136 | -.00017 | -.00010 | .99465 | -.00053 | -.00063 | .00214 | .00023 | -.00163 | 46.327 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07715** | **-.00385** | **.00884** | **-.00008** | **-.00223** | **261.12** | **.00146** | **.00856** | **.00076** | **5.0940** | **-.00238** | **.00508** | **.00630** |
| Stddev | .00318 | .00259 | .00288 | .00004 | .00002 | .32 | .00013 | .00043 | .00102 | .0093 | .00065 | .00119 | .00596 |
| %RSD | 4.1278 | 67.281 | 32.613 | 53.134 | .87678 | .12345 | 8.8326 | 4.9795 | 134.95 | .18300 | 27.251 | 23.389 | 94.597 |
| #1 | .07941 | -.00202 | .01088 | -.00011 | -.00225 | 260.89 | .00155 | .00887 | .00003 | 5.0874 | -.00192 | .00424 | .01051 |
| #2 | .07490 | -.00568 | .00680 | -.00005 | -.00222 | 261.35 | .00137 | .00826 | .00148 | 5.1006 | -.00284 | .00592 | .00209 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **.00034** | **5.1177** | **.00290** | **-.00249** | **10.023** | **-.00192** | **.00336** | **-.05635** |
| Stddev | .00033 | .00005 | .0250 | .00027 | .00004 | .094 | .00061 | .00020 | .00086 |
| %RSD | 34.508 | 14.970 | .48944 | 9.2056 | 1.6350 | .93632 | 31.652 | 5.9640 | 1.5207 |
| #1 | .00118 | .00037 | 5.1354 | .00308 | -.00252 | 10.089 | -.00235 | .00350 | -.05695 |
| #2 | .00072 | .00030 | 5.1000 | .00271 | -.00246 | 9.9568 | -.00149 | .00322 | -.05574 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5533.9** | **69160.** | **4193.4** |
| Stddev | 9.4 | 360. | 23.2 |
| %RSD | .17036 | .52106 | .55279 |
| #1 | 5540.5 | 68906. | 4209.8 |
| #2 | 5527.2 | 69415. | 4177.0 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 19:42:37 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50756** | **.49468** | **.98459** | **.51391** | **.50182** | **.46816** | **.00151** | **4.8097** | **.49667** | **.50545** | **.48664** | **.48150** | **2.2515** |
| Stddev | .00019 | .00123 | .00543 | .00143 | .00352 | .00306 | .00240 | .0040 | .00115 | .00065 | .00067 | .00056 | .0073 |
| %RSD | .03773 | .24860 | .55118 | .27900 | .70145 | .65448 | 158.42 | .08242 | .23115 | .12771 | .13853 | .11709 | .32435 |
| #1 | .50742 | .49555 | .98843 | .51492 | .49933 | .46599 | -.00018 | 4.8125 | .49748 | .50591 | .48712 | .48110 | 2.2566 |
| #2 | .50769 | .49381 | .98075 | .51290 | .50431 | .47033 | .00321 | 4.8069 | .49586 | .50499 | .48616 | .48190 | 2.2463 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.873** | **1.0472** | **19.389** | **.49785** | **.47646** | **5.0337** | **.49544** | **1.0120** | **.99633** | **-.03283** | **.99645** | **1.0196** | **4.6210** |
| Stddev | .400 | .0114 | .005 | .00074 | .00059 | .0509 | .00004 | .0033 | .00081 | .00169 | .00189 | .0001 | .0374 |
| %RSD | .77037 | 1.0913 | .02527 | .14877 | .12456 | 1.0103 | .00888 | .33013 | .08137 | 5.1547 | .18995 | .00686 | .80991 |
| #1 | 51.590 | 1.0391 | 19.392 | .49733 | .47604 | 4.9977 | .49541 | 1.0097 | .99576 | -.03163 | .99512 | 1.0197 | 4.6475 |
| #2 | 52.155 | 1.0553 | 19.385 | .49838 | .47688 | 5.0696 | .49547 | 1.0144 | .99691 | -.03402 | .99779 | 1.0196 | 4.5945 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95115** | **.51351** | **.00211** | **.49407** | **.95518** | **-.02189** | **.48344** | **.48860** | **.47815** |
| Stddev | .00067 | .00510 | .00192 | .00036 | .00103 | .01784 | .00028 | .00003 | .00469 |
| %RSD | .07095 | .99233 | 91.097 | .07239 | .10801 | 81.507 | .05705 | .00690 | .98139 |
| #1 | .95067 | .50990 | .00347 | .49382 | .95445 | -.00927 | .48364 | .48863 | .47483 |
| #2 | .95163 | .51711 | .00075 | .49433 | .95591 | -.03451 | .48325 | .48858 | .48147 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5629.5** | **70395.** | **4205.8** |
| Stddev | 13.8 | 51. | 35.8 |
| %RSD | .24473 | .07233 | .85172 |
| #1 | 5619.8 | 70431. | 4231.2 |
| #2 | 5639.2 | 70359. | 4180.5 |

Sample Name: CCB Acquired: 5/16/2013 19:44:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00146** | **-.00015** | **.00350** | **.00003** | **-.00041** | **-.00009** | **-.00057** | **-.00485** | **-.00001** | **.00010** | **.00018** |
| Stddev | .00059 | .00006 | .00052 | .00001 | .00024 | .00006 | .00002 | .00015 | .00010 | .00012 | .00012 |
| %RSD | 40.535 | 40.687 | 14.781 | 29.844 | 58.113 | 67.896 | 4.2340 | 3.0634 | 1013.4 | 121.03 | 65.310 |
| #1 | .00104 | -.00019 | .00313 | .00004 | -.00024 | -.00005 | -.00055 | -.00495 | .00006 | .00001 | .00010 |
| #2 | .00188 | -.00010 | .00387 | .00003 | -.00058 | -.00013 | -.00059 | -.00474 | -.00008 | .00018 | .00027 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00122** | **-.00366** | **.08108** | W **-.00341** | **.00213** | **-.00008** | **.00021** | **.03539** | **-.00018** | **.00080** | **.00059** |
| Stddev | .00023 | .00233 | .01295 | .00096 | .00080 | .00002 | .00017 | .01403 | .00007 | .00004 | .00059 |
| %RSD | 18.584 | 63.683 | 15.975 | 28.191 | 37.439 | 31.209 | 81.328 | 39.653 | 38.428 | 4.6159 | 99.255 |
| #1 | -.00106 | -.00530 | .09023 | -.00273 | .00269 | -.00009 | .00009 | .04531 | -.00013 | .00077 | .00018 |
| #2 | -.00139 | -.00201 | .07192 | -.00410 | .00156 | -.00006 | .00032 | .02547 | -.00023 | .00082 | .00101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03645** | **-.00070** | **-.00122** | **.00828** | **.00080** | **.00006** | **.00296** | **-.00057** | **-.00130** | **-.04514** | W **-.00112** |
| Stddev | .00167 | .00103 | .00079 | .01028 | .00049 | .00005 | .00239 | .00013 | .00009 | .00928 | .00018 |
| %RSD | 4.5741 | 147.83 | 65.079 | 124.06 | 61.612 | 96.008 | 80.753 | 22.622 | 6.7929 | 20.562 | 16.021 |
| #1 | -.03763 | .00003 | -.00178 | .00102 | .00045 | .00002 | .00127 | -.00048 | -.00124 | -.03858 | -.00125 |
| #2 | -.03527 | -.00143 | -.00066 | .01555 | .00115 | .00009 | .00465 | -.00066 | -.00136 | -.05171 | -.00099 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00211** | **.00210** |
| Stddev | .00019 | .00095 |
| %RSD | 8.8249 | 45.097 |
| #1 | .00198 | .00143 |
| #2 | .00224 | .00278 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5670.0** | **71207.** | **4204.7** |
| Stddev | 6.0 | 124. | 44.2 |
| %RSD | .10639 | .17375 | 1.0504 |
| #1 | 5665.7 | 71120. | 4235.9 |
| #2 | 5674.2 | 71295. | 4173.5 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 19:47:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01070** | **.10146** | **.01792** | **.10416** | **.00972** | **.00090** | **.10340** | **.18575** | **.00493** | **.01052** | **.01011** |
| Stddev | .00002 | .00054 | .00190 | .00006 | .00048 | .00002 | .00310 | .00090 | .00004 | .00022 | .00003 |
| %RSD | .14128 | .53210 | 10.621 | .06096 | 4.9354 | 2.5011 | 2.9968 | .48619 | .72710 | 2.0581 | .25205 |
| #1 | .01071 | .10184 | .01927 | .10411 | .01006 | .00088 | .10121 | .18511 | .00496 | .01037 | .01009 |
| #2 | .01069 | .10108 | .01658 | .10420 | .00938 | .00091 | .10559 | .18639 | .00491 | .01067 | .01013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01366** | **.08688** | **3.2613** | **.00835** | **.20606** | **.01026** | **.01874** | **1.0439** | **.04101** | **3.0120** | **.00994** |
| Stddev | .00014 | .00101 | .0584 | .00016 | .00169 | .00001 | .00005 | .0020 | .00008 | .0011 | .00016 |
| %RSD | 1.0283 | 1.1587 | 1.7895 | 1.8996 | .82178 | .12247 | .28199 | .19164 | .19822 | .03534 | 1.6089 |
| #1 | .01376 | .08616 | 3.3026 | .00847 | .20486 | .01027 | .01870 | 1.0453 | .04095 | 3.0127 | .00983 |
| #2 | .01357 | .08759 | 3.2200 | .00824 | .20726 | .01026 | .01878 | 1.0425 | .04106 | 3.0112 | .01005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03578** | **.00965** | **.01738** | **.45463** | **.09739** | **.01027** | **.01793** | **.00944** | **.01374** | F **.01045** | **.00864** |
| Stddev | .00014 | .00032 | .00173 | .00772 | .00057 | .00001 | .00076 | .00016 | .00096 | .06205 | .00021 |
| %RSD | .37729 | 3.3232 | 9.9782 | 1.6970 | .58954 | .13181 | 4.2254 | 1.6507 | 7.0138 | 593.58 | 2.4486 |
| #1 | -.03569 | .00988 | .01616 | .44917 | .09780 | .01026 | .01739 | .00933 | .01306 | .05433 | .00849 |
| #2 | -.03588 | .00942 | .01861 | .46009 | .09699 | .01028 | .01846 | .00955 | .01442 | -.03342 | .00879 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02250** | W **.01867** |
| Stddev | .00036 | .00181 |
| %RSD | 1.5994 | 9.6970 |
| #1 | .02224 | .01995 |
| #2 | .02275 | .01739 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5705.1** | **71507.** | **4249.2** |
| Stddev | 5.1 | 258. | 34.8 |
| %RSD | .08867 | .36035 | .81884 |
| #1 | 5701.5 | 71325. | 4224.6 |
| #2 | 5708.7 | 71689. | 4273.8 |

Sample Name: 280-41920-B-1-A Acquired: 5/16/2013 19:49:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **.05861** | **.00666** | **2.8329** | **.11614** | **-.00009** | **-.00254** | **101.54** | **.00032** |
| Stddev | .00023 | .00033 | .00421 | .0069 | .00042 | .00002 | .00246 | .18 | .00027 |
| %RSD | 18.572 | .56227 | 63.106 | .24223 | .35936 | 19.492 | 96.787 | .17468 | 82.707 |
| #1 | .00106 | .05838 | .00964 | 2.8281 | .11643 | -.00011 | -.00428 | 101.42 | .00013 |
| #2 | .00138 | .05884 | .00369 | 2.8378 | .11584 | -.00008 | -.00080 | 101.67 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00362** | **.00080** | **-.00008** | **.27706** | **8.3799** | **.05051** | **61.758** | **.10811** | **.01933** |
| Stddev | .00008 | .00010 | .00053 | .00332 | .0401 | .00081 | .039 | .00001 | .00005 |
| %RSD | 2.0795 | 12.018 | 653.01 | 1.1994 | .47797 | 1.5960 | .06312 | .01034 | .26255 |
| #1 | .00367 | .00073 | -.00046 | .27941 | 8.3516 | .05108 | 61.785 | .10812 | .01930 |
| #2 | .00357 | .00087 | .00029 | .27471 | 8.4082 | .04994 | 61.730 | .10810 | .01937 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **467.83** | **.00223** | **.53296** | **.00200** | **206.13** | **.00051** | **-.00191** | **6.1530** | **.00121** |
| Stddev | .34 | .00024 | .00203 | .00084 | .37 | .00061 | .00451 | .0072 | .00023 |
| %RSD | .07294 | 10.962 | .38142 | 42.132 | .17791 | 120.97 | 236.71 | .11762 | 19.408 |
| #1 | 467.59 | .00205 | .53153 | .00141 | 205.87 | .00094 | .00128 | 6.1582 | .00104 |
| #2 | 468.07 | .00240 | .53440 | .00260 | 206.39 | .00007 | -.00509 | 6.1479 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9363** | **.00136** | **.00072** | **.00019** | **-.01548** | **.00080** | **.01610** | **.00300** |
| Stddev | .1164 | .00210 | .00030 | .00096 | .01093 | .00039 | .00039 | .00069 |
| %RSD | 1.1718 | 153.90 | 41.140 | 501.29 | 70.610 | 48.888 | 2.4490 | 23.085 |
| #1 | 9.8540 | .00285 | .00051 | -.00049 | -.02320 | .00052 | .01582 | .00349 |
| #2 | 10.019 | -.00012 | .00093 | .00087 | -.00775 | .00108 | .01638 | .00251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5458.7** | **69393.** | **4252.3** |
| Stddev | 15.4 | 58. | 18.1 |
| %RSD | .28149 | .08394 | .42678 |
| #1 | 5469.6 | 69352. | 4239.5 |
| #2 | 5447.8 | 69434. | 4265.1 |

Sample Name: sd 280-41920-B-1-A@5 Acquired: 5/16/2013 19:52:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.01242** | **.00024** | **.57504** | **.02284** | **-.00008** | **-.00116** | **20.298** | **.00010** |
| Stddev | .00049 | .00021 | .00347 | .00161 | .00025 | .00002 | .00115 | .132 | .00009 |
| %RSD | 38.884 | 1.7256 | 1451.6 | .28030 | 1.1131 | 23.102 | 99.125 | .64957 | 86.393 |
| #1 | .00160 | .01257 | .00269 | .57390 | .02302 | -.00007 | -.00198 | 20.391 | .00016 |
| #2 | .00091 | .01227 | -.00221 | .57618 | .02266 | -.00009 | -.00035 | 20.204 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.00023** | **-.00085** | **.06249** | **1.7764** | **.00780** | **12.638** | **.02202** | **.00340** |
| Stddev | .00013 | .00015 | .00025 | .00241 | .0518 | .00102 | .006 | .00005 | .00002 |
| %RSD | 12.928 | 63.645 | 29.001 | 3.8557 | 2.9176 | 13.085 | .04999 | .21806 | .71964 |
| #1 | .00107 | .00013 | -.00103 | .06419 | 1.7397 | .00708 | 12.633 | .02206 | .00338 |
| #2 | .00089 | .00034 | -.00068 | .06079 | 1.8130 | .00852 | 12.642 | .02199 | .00342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **94.996** | **.00053** | **.10314** | **-.00001** | **40.323** | **-.00212** | **.00130** | **1.2046** | **.00041** |
| Stddev | .245 | .00004 | .00093 | .00021 | .018 | .00104 | .00016 | .0032 | .00061 |
| %RSD | .25792 | 7.5787 | .89947 | 3526.3 | .04548 | 48.895 | 12.247 | .27015 | 150.78 |
| #1 | 94.823 | .00050 | .10248 | -.00016 | 40.310 | -.00286 | .00119 | 1.2023 | .00084 |
| #2 | 95.169 | .00056 | .10379 | .00014 | 40.335 | -.00139 | .00141 | 1.2070 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9975** | **-.00163** | **.00022** | **-.00064** | **.00944** | **-.00069** | **.00547** | **.00199** |
| Stddev | .0146 | .00013 | .00008 | .00004 | .02684 | .00112 | .00001 | .00204 |
| %RSD | .73293 | 8.0278 | 37.286 | 5.5729 | 284.27 | 163.20 | .21274 | 102.47 |
| #1 | 2.0079 | -.00173 | .00016 | -.00066 | .02842 | .00011 | .00546 | .00055 |
| #2 | 1.9872 | -.00154 | .00028 | -.00061 | -.00954 | -.00148 | .00548 | .00343 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5618.2** | **70560.** | **4264.0** |
| Stddev | 1.4 | 9. | 48.0 |
| %RSD | .02562 | .01326 | 1.1250 |
| #1 | 5617.2 | 70554. | 4230.1 |
| #2 | 5619.2 | 70567. | 4298.0 |

Sample Name: 280-41920-B-1-B MS  Acquired: 5/16/2013 19:54:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05466** | **2.0224** | **1.0477** | **3.9194** | **2.2064** | **.04829** | **2.0817** | **150.90** | **.10610** |
| Stddev | .00025 | .0010 | .0012 | .0052 | .0023 | .00002 | .0052 | .23 | .00015 |
| %RSD | .45104 | .04827 | .11735 | .13311 | .10520 | .03423 | .24838 | .15294 | .14289 |
| #1 | .05483 | 2.0217 | 1.0485 | 3.9231 | 2.2081 | .04831 | 2.0853 | 150.73 | .10621 |
| #2 | .05449 | 2.0230 | 1.0468 | 3.9157 | 2.2048 | .04828 | 2.0780 | 151.06 | .10599 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50865** | **.19895** | **.25367** | **1.1396** | **63.222** | **1.1279** | **110.59** | **.60483** | **1.0097** |
| Stddev | .00009 | .00027 | .00012 | .0004 | .294 | .0030 | .24 | .00044 | .0015 |
| %RSD | .01791 | .13520 | .04749 | .03129 | .46475 | .26838 | .21994 | .07266 | .14592 |
| #1 | .50871 | .19914 | .25359 | 1.1399 | 63.015 | 1.1258 | 110.76 | .60514 | 1.0107 |
| #2 | .50858 | .19876 | .25376 | 1.1394 | 63.430 | 1.1301 | 110.42 | .60452 | 1.0087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **525.83** | **.49266** | **11.527** | **.49253** | **209.56** | **.53029** | **2.1332** | **15.843** | **1.9389** |
| Stddev | .41 | .00007 | .013 | .00129 | .44 | .00325 | .0137 | .073 | .0048 |
| %RSD | .07766 | .01355 | .10928 | .26206 | .21207 | .61320 | .64113 | .45786 | .24688 |
| #1 | 525.54 | .49270 | 11.536 | .49344 | 209.88 | .53259 | 2.1428 | 15.792 | 1.9423 |
| #2 | 526.12 | .49261 | 11.518 | .49161 | 209.25 | .52800 | 2.1235 | 15.894 | 1.9355 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.143** | **1.0403** | **1.0096** | **1.8765** | **2.0749** | **.50023** | **.49071** | **.47861** |
| Stddev | .132 | .0019 | .0011 | .0015 | .0371 | .00040 | .00077 | .00278 |
| %RSD | 1.1865 | .18453 | .10863 | .07856 | 1.7869 | .07978 | .15689 | .58044 |
| #1 | 11.237 | 1.0390 | 1.0089 | 1.8755 | 2.1011 | .50051 | .49017 | .48057 |
| #2 | 11.050 | 1.0417 | 1.0104 | 1.8775 | 2.0486 | .49995 | .49126 | .47664 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5402.9** | **69258.** | **4200.2** |
| Stddev | .5 | 284. | 22.8 |
| %RSD | .00959 | .40998 | .54276 |
| #1 | 5402.6 | 69057. | 4184.0 |
| #2 | 5403.3 | 69458. | 4216.3 |

Sample Name: 280-41920-B-1-C MSD  Acquired: 5/16/2013 19:57:46  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05441** | **2.0060** | **1.0275** | **3.8779** | **2.1463** | **.04713** | **2.0353** | **147.48** | **.10375** |
| Stddev | .00022 | .0042 | .0010 | .0017 | .0076 | .00027 | .0009 | .75 | .00003 |
| %RSD | .40076 | .21050 | .10055 | .04440 | .35248 | .56338 | .04579 | .50606 | .02739 |
| #1 | .05425 | 2.0090 | 1.0282 | 3.8791 | 2.1410 | .04732 | 2.0347 | 146.95 | .10377 |
| #2 | .05456 | 2.0030 | 1.0268 | 3.8767 | 2.1517 | .04694 | 2.0360 | 148.00 | .10373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49956** | **.19431** | **.24741** | **1.1198** | **61.663** | **1.1030** | **109.30** | **.59628** | **.98587** |
| Stddev | .00102 | .00021 | .00037 | .0083 | .395 | .0082 | .16 | .00030 | .00006 |
| %RSD | .20409 | .10805 | .14910 | .74501 | .64021 | .74386 | .14417 | .04994 | .00576 |
| #1 | .50028 | .19446 | .24715 | 1.1139 | 61.384 | 1.0972 | 109.41 | .59649 | .98583 |
| #2 | .49884 | .19416 | .24767 | 1.1257 | 61.942 | 1.1088 | 109.19 | .59607 | .98591 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **515.42** | **.48334** | **11.334** | **.48417** | **207.40** | **.52010** | **2.1069** | **15.570** | **1.8955** |
| Stddev | .75 | .00004 | .010 | .00114 | .03 | .00207 | .0028 | .019 | .0011 |
| %RSD | .14578 | .00796 | .09170 | .23586 | .01501 | .39878 | .13336 | .12228 | .05600 |
| #1 | 514.89 | .48336 | 11.327 | .48498 | 207.37 | .52157 | 2.1049 | 15.556 | 1.8963 |
| #2 | 515.95 | .48331 | 11.342 | .48337 | 207.42 | .51864 | 2.1089 | 15.583 | 1.8948 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.992** | **1.0297** | **.99580** | **1.8446** | **2.0291** | **.49160** | **.48702** | **.46594** |
| Stddev | .007 | .0040 | .00047 | .0026 | .0052 | .00016 | .00171 | .00413 |
| %RSD | .06650 | .39229 | .04671 | .13956 | .25564 | .03162 | .35098 | .88579 |
| #1 | 10.987 | 1.0325 | .99613 | 1.8428 | 2.0254 | .49149 | .48823 | .46886 |
| #2 | 10.997 | 1.0268 | .99547 | 1.8465 | 2.0328 | .49171 | .48581 | .46302 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5418.9** | **69451.** | **4236.4** |
| Stddev | .3 | 242. | 2.3 |
| %RSD | .00515 | .34878 | .05472 |
| #1 | 5418.7 | 69279. | 4238.0 |
| #2 | 5419.1 | 69622. | 4234.7 |

Sample Name: pds 280-41920-B-1-A  Acquired: 5/16/2013 20:00:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05275** | **1.0470** | **.21436** | **2.9333** | **.22160** | **.04874** | **-.00267** | **119.90** | **.05390** |
| Stddev | .00049 | .0024 | .00009 | .0007 | .00130 | .00023 | .00132 | 1.25 | .00020 |
| %RSD | .92408 | .23311 | .04407 | .02254 | .58540 | .46816 | 49.563 | 1.0402 | .37288 |
| #1 | .05241 | 1.0453 | .21429 | 2.9329 | .22068 | .04857 | -.00173 | 119.02 | .05376 |
| #2 | .05310 | 1.0487 | .21443 | 2.9338 | .22252 | .04890 | -.00360 | 120.79 | .05404 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05558** | **.05106** | **.05172** | **1.2197** | **30.584** | **.15984** | **81.258** | **.15867** | **.07000** |
| Stddev | .00021 | .00022 | .00027 | .0137 | .366 | .00200 | .007 | .00024 | .00029 |
| %RSD | .37909 | .42466 | .51984 | 1.1259 | 1.1959 | 1.2500 | .00876 | .15033 | .42085 |
| #1 | .05573 | .05091 | .05191 | 1.2100 | 30.325 | .15842 | 81.253 | .15884 | .07020 |
| #2 | .05543 | .05121 | .05153 | 1.2295 | 30.843 | .16125 | 81.263 | .15850 | .06979 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **484.73** | **.05320** | **2.7933** | **.10143** | **205.54** | **.10611** | **.21897** | **10.944** | **.09993** |
| Stddev | 4.50 | .00001 | .0122 | .00064 | .14 | .00166 | .00530 | .134 | .00001 |
| %RSD | .92879 | .01180 | .43658 | .63039 | .06675 | 1.5673 | 2.4196 | 1.2204 | .00680 |
| #1 | 481.54 | .05320 | 2.7847 | .10188 | 205.44 | .10728 | .21522 | 10.849 | .09993 |
| #2 | 487.91 | .05321 | 2.8019 | .10097 | 205.64 | .10493 | .22272 | 11.038 | .09992 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9771** | **.21842** | **.05306** | **.19202** | **.50803** | **.05223** | **.21731** | **.05025** |
| Stddev | .1082 | .00072 | .00012 | .00079 | .04654 | .00032 | .00056 | .00134 |
| %RSD | 1.0842 | .33102 | .21807 | .40887 | 9.1603 | .61625 | .25916 | 2.6577 |
| #1 | 10.054 | .21791 | .05314 | .19146 | .54094 | .05201 | .21771 | .04931 |
| #2 | 9.9006 | .21894 | .05298 | .19257 | .47512 | .05246 | .21691 | .05120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5424.3** | **68540.** | **4180.9** |
| Stddev | 1.0 | 144. | 35.8 |
| %RSD | .01779 | .21063 | .85702 |
| #1 | 5424.9 | 68642. | 4206.2 |
| #2 | 5423.6 | 68437. | 4155.5 |

Sample Name: 280-41920-A-3-A  Acquired: 5/16/2013 20:03:15  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **.01583** | **.00122** | **.20767** | **.06532** | **-.00002** | **-.00016** | **38.888** | **.00012** |
| Stddev | .00031 | .00016 | .00034 | .00154 | .00053 | .00004 | .00115 | .074 | .00012 |
| %RSD | 18.353 | 1.0369 | 28.032 | .74203 | .81406 | 249.79 | 699.95 | .19116 | 101.11 |
| #1 | .00145 | .01594 | .00147 | .20876 | .06570 | .00001 | -.00098 | 38.941 | .00020 |
| #2 | .00189 | .01571 | .00098 | .20658 | .06495 | -.00005 | .00065 | 38.836 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00037** | **-.00020** | **.10190** | **10.664** | **.00551** | **3.5348** | **.01689** | **.00052** |
| Stddev | .00017 | .00012 | .00004 | .00081 | .080 | .00056 | .0261 | .00021 | .00018 |
| %RSD | 127.03 | 32.265 | 19.080 | .79148 | .74904 | 10.195 | .73855 | 1.2218 | 33.999 |
| #1 | .00025 | .00029 | -.00018 | .10247 | 10.721 | .00590 | 3.5163 | .01675 | .00064 |
| #2 | .00001 | .00046 | -.00023 | .10133 | 10.608 | .00511 | 3.5532 | .01704 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.2774** | **10.724** | **.00063** | **.19295** | **.00097** | **5.4589** | **-.00069** | **.00280** | **1.5485** |
| Stddev | .0829 | .396 | .00010 | .00096 | .00108 | .0028 | .00128 | .00098 | .0030 |
| %RSD | .89314 | 3.6916 | 16.282 | .49551 | 112.29 | .05154 | 185.81 | 34.976 | .19108 |
| #1 | 9.3360 | 11.004 | .00055 | .19362 | .00020 | 5.4609 | .00022 | .00350 | 1.5506 |
| #2 | 9.2188 | 10.444 | .00070 | .19227 | .00173 | 5.4569 | -.00160 | .00211 | 1.5464 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.31207** | **.00127** | **.00010** | **-.00172** | **-.01835** | **-.00093** | **.01583** | **.00246** |
| Stddev | .00024 | .00217 | .00194 | .00006 | .00085 | .01532 | .00002 | .00034 | .00140 |
| %RSD | 80.849 | .69575 | 153.39 | 56.989 | 49.568 | 83.483 | 2.6133 | 2.1485 | 56.930 |
| #1 | .00047 | .31360 | -.00011 | .00006 | -.00112 | -.02918 | -.00091 | .01559 | .00345 |
| #2 | .00013 | .31053 | .00264 | .00014 | -.00233 | -.00752 | -.00094 | .01607 | .00147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5647.3** | **71162.** | **4275.3** |
| Stddev | 3.3 | 713. | .7 |
| %RSD | .05757 | 1.0024 | .01620 |
| #1 | 5649.6 | 71667. | 4275.8 |
| #2 | 5645.0 | 70658. | 4274.9 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 20:48:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **49.194** | **.00233** | **.00007** | **-.00068** | **-.00003** | **1.0137** | **-.00095** | **-.00070** | **.00200** | **.00002** | **-.00014** | **47.051** |
| Stddev | .00047 | .220 | .00093 | .00028 | .00006 | .00006 | .0021 | .00061 | .00018 | .00021 | .00020 | .00043 | .047 |
| %RSD | 38.357 | .44787 | 39.975 | 419.16 | 8.6739 | 185.08 | .20574 | 64.405 | 26.097 | 10.658 | 839.64 | 309.23 | .09884 |
| #1 | .00155 | 49.038 | .00167 | .00027 | -.00063 | .00001 | 1.0152 | -.00052 | -.00057 | .00185 | .00016 | -.00044 | 47.018 |
| #2 | .00089 | 49.350 | .00298 | -.00013 | -.00072 | -.00008 | 1.0122 | -.00139 | -.00083 | .00215 | -.00011 | .00016 | 47.084 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04181** | **-.00263** | **.00754** | **-.00002** | **-.00218** | **271.80** | **.00141** | **.00497** | **.00116** | **5.1338** | **-.00115** | **.00562** | **.00751** |
| Stddev | .00902 | .00130 | .00123 | .00008 | .00031 | 1.19 | .00004 | .00064 | .00120 | .0091 | .00260 | .00241 | .00895 |
| %RSD | 21.572 | 49.315 | 16.345 | 375.06 | 14.455 | .43768 | 2.7118 | 12.824 | 103.44 | .17800 | 226.78 | 42.899 | 119.26 |
| #1 | -.03543 | -.00171 | .00667 | .00003 | -.00196 | 270.96 | .00144 | .00452 | .00202 | 5.1402 | .00069 | .00733 | .01384 |
| #2 | -.04819 | -.00355 | .00841 | -.00007 | -.00240 | 272.64 | .00139 | .00543 | .00031 | 5.1273 | -.00298 | .00392 | .00118 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **.00051** | **5.0994** | **.00292** | **-.00240** | **10.188** | **-.00178** | **.00734** | **-.04210** |
| Stddev | .00053 | .00020 | .0209 | .00067 | .00144 | .006 | .00092 | .00060 | .00090 |
| %RSD | 60.020 | 39.751 | .40940 | 22.818 | 59.955 | .06326 | 51.567 | 8.1222 | 2.1409 |
| #1 | .00051 | .00066 | 5.0847 | .00245 | -.00138 | 10.183 | -.00113 | .00776 | -.04274 |
| #2 | .00127 | .00037 | 5.1142 | .00339 | -.00342 | 10.193 | -.00242 | .00692 | -.04146 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5583.2** | **70259.** | **4183.1** |
| Stddev | 17.2 | 136. | 6.3 |
| %RSD | .30782 | .19307 | .15175 |
| #1 | 5571.1 | 70355. | 4178.6 |
| #2 | 5595.4 | 70163. | 4187.6 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 20:50:33 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50015** | **.49833** | **1.0082** | **.51383** | **.50836** | **.47701** | **.00085** | **4.8022** | **.50058** | **.50657** | **.49551** | **.49318** | **2.2685** |
| Stddev | .00098 | .00206 | .0022 | .00022 | .00458 | .00259 | .00064 | .0271 | .00047 | .00045 | .00000 | .00077 | .0124 |
| %RSD | .19659 | .41409 | .21782 | .04236 | .90166 | .54375 | 75.630 | .56511 | .09442 | .08809 | .00055 | .15581 | .54718 |
| #1 | .50084 | .49979 | 1.0098 | .51367 | .50512 | .47518 | .00130 | 4.7830 | .50092 | .50626 | .49550 | .49372 | 2.2597 |
| #2 | .49945 | .49687 | 1.0067 | .51398 | .51161 | .47884 | .00040 | 4.8214 | .50025 | .50689 | .49551 | .49263 | 2.2773 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.465** | **1.0555** | **19.615** | **.49887** | **.48928** | **5.2205** | **.50254** | **1.0130** | **1.0003** | **-.03969** | **1.0021** | **1.0299** | **4.6209** |
| Stddev | .136 | .0069 | .056 | .00092 | .00031 | .0278 | .00028 | .0028 | .0027 | .00031 | .0027 | .0027 | .0397 |
| %RSD | .25889 | .65247 | .28671 | .18431 | .06348 | .53168 | .05581 | .27341 | .27109 | .78434 | .26622 | .26032 | .85821 |
| #1 | 52.369 | 1.0506 | 19.654 | .49952 | .48950 | 5.2009 | .50274 | 1.0110 | .99836 | -.03991 | 1.0003 | 1.0318 | 4.5928 |
| #2 | 52.561 | 1.0603 | 19.575 | .49822 | .48906 | 5.2401 | .50234 | 1.0149 | 1.0022 | -.03947 | 1.0040 | 1.0280 | 4.6489 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97600** | **.50931** | **.00307** | **.49286** | **.97093** | **-.01771** | **.49108** | **.49184** | **.48123** |
| Stddev | .00044 | .00285 | .00129 | .00054 | .00218 | .01935 | .00238 | .00143 | .00417 |
| %RSD | .04511 | .55996 | 41.873 | .10985 | .22458 | 109.28 | .48557 | .28975 | .86572 |
| #1 | .97569 | .50729 | .00399 | .49324 | .96939 | -.03139 | .49277 | .49285 | .47828 |
| #2 | .97631 | .51133 | .00216 | .49247 | .97247 | -.00402 | .48940 | .49084 | .48417 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5673.6** | **71679.** | **4215.5** |
| Stddev | 4.9 | 162. | .9 |
| %RSD | .08654 | .22580 | .02031 |
| #1 | 5677.1 | 71565. | 4214.9 |
| #2 | 5670.2 | 71794. | 4216.1 |

Sample Name: CCB Acquired: 5/16/2013 20:52:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00124** | **.00025** | **.00343** | **-.00117** | W **-.00077** | **.00015** | **.00271** | **-.00353** | **-.00011** | **.00038** | **.00032** |
| Stddev | .00028 | .00019 | .00442 | .00039 | .00055 | .00000 | .00224 | .00127 | .00016 | .00022 | .00002 |
| %RSD | 22.779 | 75.397 | 128.98 | 33.538 | 72.043 | 1.5510 | 82.596 | 35.981 | 146.21 | 59.483 | 7.6792 |
| #1 | .00144 | .00012 | .00030 | -.00144 | -.00116 | .00015 | .00430 | -.00263 | .00000 | .00054 | .00030 |
| #2 | .00104 | .00038 | .00656 | -.00089 | -.00038 | .00015 | .00113 | -.00443 | -.00023 | .00022 | .00033 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | .00058 | | | | | | |
| Low Limit | -.00093 | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **-.00364** | **.03597** | **-.00213** | **.00221** | **-.00006** | **-.00034** | **.00629** | **.00023** | **-.00099** | **.00058** |
| Stddev | .00000 | .00350 | .05364 | .00116 | .00109 | .00001 | .00004 | .01245 | .00004 | .00151 | .00110 |
| %RSD | .11691 | 96.352 | 149.13 | 54.522 | 49.497 | 9.2695 | 11.858 | 197.93 | 15.610 | 153.13 | 190.59 |
| #1 | -.00069 | -.00116 | -.00196 | -.00131 | .00298 | -.00007 | -.00031 | .01510 | .00025 | .00008 | -.00020 |
| #2 | -.00069 | -.00611 | .07389 | -.00295 | .00144 | -.00006 | -.00036 | -.00251 | .00020 | -.00206 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04075** | **-.00122** | **-.00079** | **-.00093** | **-.00011** | **.00018** | **.00314** | **-.00008** | **-.00066** | **-.02798** | **-.00084** |
| Stddev | .00102 | .00029 | .00109 | .01049 | .00076 | .00006 | .00288 | .00006 | .00092 | .01963 | .00006 |
| %RSD | 2.4911 | 23.929 | 137.31 | 1122.5 | 692.89 | 33.320 | 91.700 | 72.617 | 139.88 | 70.160 | 6.9026 |
| #1 | -.04004 | -.00142 | -.00002 | -.00835 | -.00065 | .00014 | .00518 | -.00004 | -.00001 | -.04186 | -.00088 |
| #2 | -.04147 | -.00101 | -.00156 | .00648 | .00043 | .00022 | .00110 | -.00012 | -.00130 | -.01410 | -.00080 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00193** | W **.00265** |
| Stddev | .00003 | .00209 |
| %RSD | 1.2970 | 78.815 |
| #1 | .00195 | .00117 |
| #2 | .00192 | .00413 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5763.1** | **72405.** | **4243.8** |
| Stddev | 24.6 | 54. | 17.4 |
| %RSD | .42610 | .07471 | .41031 |
| #1 | 5780.5 | 72367. | 4256.1 |
| #2 | 5745.7 | 72443. | 4231.5 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 20:55:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01201** | **.10131** | **.01650** | **.10370** | **.00952** | **.00090** | **.10418** | **.18819** | **.00491** | **.01075** | **.01024** |
| Stddev | .00060 | .00070 | .00245 | .00044 | .00027 | .00017 | .00286 | .00299 | .00002 | .00000 | .00003 |
| %RSD | 4.9673 | .69487 | 14.825 | .42274 | 2.8107 | 18.652 | 2.7423 | 1.5876 | .43620 | .01428 | .26593 |
| #1 | .01159 | .10081 | .01477 | .10339 | .00933 | .00078 | .10620 | .19031 | .00493 | .01075 | .01026 |
| #2 | .01243 | .10181 | .01823 | .10401 | .00971 | .00102 | .10216 | .18608 | .00489 | .01075 | .01022 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01340** | **.08909** | **3.2342** | W **.00787** | **.20622** | **.01021** | **.01889** | **1.0225** | **.04081** | **3.0514** | **.00988** |
| Stddev | .00030 | .00214 | .0237 | .00027 | .00181 | .00005 | .00051 | .0009 | .00009 | .0003 | .00007 |
| %RSD | 2.2642 | 2.4062 | .73325 | 3.4622 | .87914 | .46678 | 2.6884 | .08365 | .22711 | .00831 | .73294 |
| #1 | .01319 | .08757 | 3.2510 | .00806 | .20750 | .01024 | .01853 | 1.0231 | .04075 | 3.0516 | .00993 |
| #2 | .01362 | .09060 | 3.2175 | .00768 | .20494 | .01017 | .01925 | 1.0219 | .04088 | 3.0512 | .00983 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04136** | F **.00637** | **.01591** | **.46919** | **.09927** | **.01041** | **.01674** | **.00966** | **.01450** | F **.04153** | **.00832** |
| Stddev | .00210 | .00206 | .00067 | .00828 | .00045 | .00000 | .00109 | .00032 | .00103 | .02091 | .00010 |
| %RSD | 5.0672 | 32.274 | 4.1995 | 1.7639 | .45757 | .01119 | 6.5223 | 3.3565 | 7.0711 | 50.355 | 1.1440 |
| #1 | -.03988 | .00783 | .01638 | .47504 | .09895 | .01041 | .01751 | .00943 | .01522 | .02674 | .00825 |
| #2 | -.04284 | .00492 | .01543 | .46334 | .09959 | .01041 | .01597 | .00989 | .01377 | .05631 | .00838 |
| Check ? | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -30.000% | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02206** | **.01611** |
| Stddev | .00056 | .00065 |
| %RSD | 2.5226 | 4.0595 |
| #1 | .02166 | .01565 |
| #2 | .02245 | .01657 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5840.8** | **73579.** | **4312.7** |
| Stddev | 6.8 | 46. | 3.4 |
| %RSD | .11689 | .06259 | .07901 |
| #1 | 5835.9 | 73612. | 4310.3 |
| #2 | 5845.6 | 73547. | 4315.1 |

Sample Name: 280-41920-B-1-A  Acquired: 5/16/2013 20:57:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00249** | s **.01662** | s **.00375** | s **.60542** | k **-.00206** | k **-.00011** | s **.00121** | **-.00795** | s **.00014** |
| Stddev | .00061 | .00822 | .00305 | .49759 | .00063 | .00006 | .00135 | .00043 | .00002 |
| %RSD | 24.494 | 49.428 | 81.318 | 82.189 | 30.603 | 52.701 | 111.42 | 5.4667 | 16.297 |
| #1 | k .00293 | s .01081 | s .00159 | s .25357 | k -.00162 | k -.00015 | s .00216 | -.00825 | s .00016 |
| #2 | k .00206 | .02243 | k .00590 | .95727 | k -.00251 | k -.00007 | k .00026 | -.00764 | k .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | s **.00101** | s **.00036** | **-.00374** | **-.00588** | **-.02277** | k **-.00634** | ^ ***** | **.00655** | s **.00408** |
| Stddev | .00039 | .00044 | .00048 | .00084 | .00899 | .00014 | ----- | .00904 | .00318 |
| %RSD | 38.906 | 121.18 | 12.751 | 14.213 | 39.478 | 2.1515 | ----- | 137.96 | 78.122 |
| #1 | s .00074 | s .00005 | -.00408 | -.00647 | -.01642 | -.00624 | k .09706 | .00016 | s .00182 |
| #2 | k .00129 | k .00068 | -.00340 | -.00529 | -.02913 | k -.00643 | ^ ----- | .01294 | .00633 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.12700** | s **.00066** | s **.11109** | s **.00231** | ^ ***** | s **.00016** | s **.00388** | k **-.01638** | s **-.00027** |
| Stddev | .01776 | .00071 | .09103 | .00188 | ----- | .00027 | .00181 | .00820 | .00050 |
| %RSD | 13.980 | 107.56 | 81.945 | 81.427 | ----- | 165.87 | 46.657 | 50.081 | 185.03 |
| #1 | -.11445 | s .00016 | s .04672 | s .00364 | s 17.896 | s -.00003 | s .00516 | k -.01058 | s -.00063 |
| #2 | -.13956 | .00117 | .17546 | k .00098 | ^ ----- | k .00036 | k .00260 | k -.02218 | k .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | k **.00117** | k **.00046** | s **.00023** | kW **-.07876** | k **-.00167** | k **.00095** | k **.00559** |
| Stddev | .00006 | .00008 | .00020 | .00141 | .01527 | .00063 | .00116 | .00046 |
| %RSD | 125.03 | 7.1505 | 43.092 | 613.04 | 19.389 | 37.587 | 122.21 | 8.1966 |
| #1 | .00009 | k .00111 | k .00032 | s -.00077 | k -.08955 | k -.00212 | k .00013 | k .00527 |
| #2 | .00001 | k .00123 | k .00060 | k .00123 | k -.06796 | k -.00123 | k .00177 | k .00592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | ^ ***** | **152600.** | **7351.7** |
| Stddev | ----- | 35503. | 1462.9 |
| %RSD | ----- | 23.266 | 19.898 |
| #1 | ^ ----- | 177700. | 6317.3 |
| #2 | 6986.2 | 127490. | 8386.1 |

Sample Name: 280-41920-A-5-A Acquired: 5/16/2013 21:00:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00157** | **.10017** | **.00528** | **.08543** | **.04844** | **-.00013** | **-.00173** | **36.494** | **.00013** |
| Stddev | .00026 | .00118 | .00046 | .00043 | .00007 | .00006 | .00128 | .117 | .00018 |
| %RSD | 16.697 | 1.1751 | 8.6407 | .50522 | .14849 | 47.930 | 74.119 | .32120 | 139.29 |
| #1 | .00139 | .09934 | .00495 | .08512 | .04839 | -.00017 | -.00082 | 36.411 | .00026 |
| #2 | .00176 | .10101 | .00560 | .08573 | .04850 | -.00009 | -.00264 | 36.577 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00040** | **.00372** | **.16976** | **9.1678** | **.00180** | **3.0022** | **.00415** | **.00422** |
| Stddev | .00015 | .00002 | .00050 | .00222 | .0007 | .00098 | .0025 | .00001 | .00009 |
| %RSD | 571.17 | 4.2395 | 13.349 | 1.3055 | .00734 | 54.330 | .08179 | .28393 | 2.0981 |
| #1 | -.00008 | .00038 | .00337 | .16819 | 9.1674 | .00111 | 3.0005 | .00414 | .00415 |
| #2 | .00013 | .00041 | .00407 | .17132 | 9.1683 | .00250 | 3.0040 | .00416 | .00428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.2967** | **10.874** | **.00069** | **.21444** | **.00110** | **6.2047** | **.00060** | **-.00060** | **2.7664** |
| Stddev | .0105 | .226 | .00011 | .00089 | .00038 | .0005 | .00033 | .00196 | .0177 |
| %RSD | .11285 | 2.0779 | 15.456 | .41443 | 34.594 | .00877 | 55.206 | 329.77 | .64032 |
| #1 | 9.2893 | 10.714 | .00077 | .21506 | .00083 | 6.2051 | .00083 | .00079 | 2.7539 |
| #2 | 9.3041 | 11.034 | .00062 | .21381 | .00137 | 6.2043 | .00037 | -.00198 | 2.7789 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.40508** | **.00366** | **.00126** | **-.00222** | **-.04746** | **-.00068** | **.05301** | **.00351** |
| Stddev | .00040 | .00145 | .00115 | .00041 | .00176 | .01625 | .00045 | .00029 | .00006 |
| %RSD | 93.077 | .35713 | 31.406 | 32.826 | 79.393 | 34.240 | 66.263 | .54828 | 1.6363 |
| #1 | .00015 | .40405 | .00285 | .00155 | -.00097 | -.05895 | -.00036 | .05281 | .00355 |
| #2 | .00071 | .40610 | .00447 | .00097 | -.00347 | -.03597 | -.00100 | .05322 | .00347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5679.0** | **72147.** | **4248.6** |
| Stddev | 3.4 | 221. | 14.5 |
| %RSD | .06017 | .30580 | .34192 |
| #1 | 5676.6 | 72303. | 4258.9 |
| #2 | 5681.4 | 71991. | 4238.3 |

Sample Name: 280-41920-A-6-A  Acquired: 5/16/2013 21:02:35  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00106** | **.24181** | **.00181** | **.07701** | **.04556** | **-.00006** | **-.00165** | **29.656** | **.00043** |
| Stddev | .00019 | .00015 | .00024 | .00038 | .00039 | .00002 | .00291 | .066 | .00002 |
| %RSD | 18.347 | .06144 | 13.349 | .48765 | .85013 | 38.338 | 176.43 | .22103 | 4.4976 |
| #1 | .00119 | .24171 | .00164 | .07674 | .04583 | -.00005 | .00041 | 29.610 | .00041 |
| #2 | .00092 | .24192 | .00198 | .07728 | .04529 | -.00008 | -.00370 | 29.703 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00055** | **.00904** | **.26829** | **7.8540** | **.00234** | **1.6810** | **.01049** | **.00501** |
| Stddev | .00003 | .00005 | .00034 | .00629 | .0388 | .00026 | .0007 | .00011 | .00019 |
| %RSD | 8.9444 | 8.3545 | 3.7159 | 2.3458 | .49344 | 11.294 | .04316 | 1.0761 | 3.7721 |
| #1 | .00037 | .00058 | .00928 | .27274 | 7.8814 | .00215 | 1.6815 | .01041 | .00487 |
| #2 | .00032 | .00052 | .00880 | .26384 | 7.8266 | .00252 | 1.6805 | .01057 | .00514 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.7487** | **.00143** | **.29177** | **.00554** | **6.0456** | **.00304** | **-.00089** | **3.0192** | **.00011** |
| Stddev | .0040 | .00004 | .00070 | .00053 | .0056 | .00025 | .00078 | .0045 | .00015 |
| %RSD | .06997 | 2.8442 | .23869 | 9.4971 | .09296 | 8.1189 | 87.358 | .14872 | 133.95 |
| #1 | 5.7515 | .00146 | .29226 | .00517 | 6.0416 | .00321 | -.00034 | 3.0224 | .00021 |
| #2 | 5.7458 | .00141 | .29128 | .00591 | 6.0496 | .00286 | -.00145 | 3.0160 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22987** | **-.00009** | **.00320** | **-.00056** | **-.03295** | **.00057** | **.04780** | **.00211** |
| Stddev | .00063 | .00163 | .00015 | .00065 | .02232 | .00040 | .00022 | .00303 |
| %RSD | .27354 | 1747.8 | 4.7670 | 117.19 | 67.727 | 70.066 | .46103 | 143.73 |
| #1 | .22943 | .00106 | .00330 | -.00010 | -.01717 | .00029 | .04796 | -.00003 |
| #2 | .23032 | -.00125 | .00309 | -.00102 | -.04873 | .00085 | .04765 | .00426 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5693.4** | **71894.** | **4260.3** |
| Stddev | 6.3 | 271. | 12.9 |
| %RSD | .11074 | .37753 | .30376 |
| #1 | 5689.0 | 71702. | 4251.2 |
| #2 | 5697.9 | 72086. | 4269.5 |

Sample Name: 280-41920-A-8-A  Acquired: 5/16/2013 21:05:02  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173277 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.25328** | **.00061** | **.07330** | **.04272** | **-.00004** | **-.00188** | **28.731** | **.00038** |
| Stddev | .00016 | .00084 | .00109 | .00001 | .00012 | .00017 | .00079 | .010 | .00013 |
| %RSD | 20.478 | .33129 | 180.58 | .01589 | .28525 | 387.97 | 42.161 | .03501 | 34.954 |
| #1 | .00068 | .25268 | -.00017 | .07331 | .04280 | -.00017 | -.00244 | 28.723 | .00047 |
| #2 | .00091 | .25387 | .00138 | .07330 | .04263 | .00008 | -.00132 | 28.738 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00055** | **.00871** | **.29859** | **7.5389** | **.00158** | **1.6264** | **.01213** | **.00440** |
| Stddev | .00007 | .00007 | .00039 | .00116 | .0320 | .00115 | .0002 | .00003 | .00021 |
| %RSD | 40.602 | 13.228 | 4.5240 | .38907 | .42422 | 72.824 | .01425 | .27134 | 4.6735 |
| #1 | .00013 | .00060 | .00843 | .29941 | 7.5163 | .00077 | 1.6266 | .01215 | .00425 |
| #2 | .00024 | .00050 | .00899 | .29777 | 7.5615 | .00240 | 1.6262 | .01211 | .00454 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.5188** | **.00151** | **.30425** | **.00364** | **5.8681** | **.00125** | **-.00040** | **2.9539** | **-.00008** |
| Stddev | .0030 | .00002 | .00025 | .00043 | .0035 | .00077 | .00409 | .0180 | .00015 |
| %RSD | .05501 | 1.4043 | .08257 | 11.906 | .06011 | 61.795 | 1021.4 | .60806 | 191.74 |
| #1 | 5.5167 | .00150 | .30408 | .00395 | 5.8656 | .00180 | -.00329 | 2.9412 | -.00019 |
| #2 | 5.5210 | .00153 | .30443 | .00333 | 5.8706 | .00071 | .00249 | 2.9666 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21857** | **-.00004** | **.00336** | **-.00207** | **-.02526** | **.00051** | **.04867** | **.00034** |
| Stddev | .00005 | .00335 | .00006 | .00192 | .01999 | .00086 | .00093 | .00255 |
| %RSD | .02449 | 7770.3 | 1.8011 | 93.068 | 79.145 | 169.58 | 1.9066 | 740.65 |
| #1 | .21853 | -.00241 | .00332 | -.00343 | -.03939 | .00111 | .04933 | -.00146 |
| #2 | .21861 | .00233 | .00341 | -.00071 | -.01112 | -.00010 | .04801 | .00215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5716.3** | **72083.** | **4286.5** |
| Stddev | .9 | 60. | 16.0 |
| %RSD | .01560 | .08282 | .37412 |
| #1 | 5716.9 | 72041. | 4275.2 |
| #2 | 5715.7 | 72125. | 4297.9 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 21:07:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **48.197** | **.00183** | **-.00062** | **-.00061** | **-.00004** | **.99097** | **.00224** | **-.00085** | **.00214** | **.00028** | **-.00106** | **45.959** |
| Stddev | .00040 | .123 | .00181 | .00051 | .00038 | .00001 | .00163 | .00182 | .00006 | .00020 | .00024 | .00043 | .208 |
| %RSD | 56.583 | .25539 | 98.650 | 81.928 | 62.164 | 27.923 | .16474 | 81.294 | 7.2973 | 9.4069 | 86.536 | 40.821 | .45267 |
| #1 | .00043 | 48.284 | .00311 | -.00026 | -.00088 | -.00004 | .98982 | .00353 | -.00080 | .00200 | .00045 | -.00076 | 46.107 |
| #2 | .00099 | 48.110 | .00055 | -.00098 | -.00034 | -.00005 | .99213 | .00095 | -.00089 | .00228 | .00011 | -.00137 | 45.812 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01684** | **-.00251** | **.00795** | **-.00018** | **-.00193** | **265.44** | **.00121** | **.00876** | **.00076** | **5.0818** | **-.00130** | **.01066** | **-.00458** |
| Stddev | .05014 | .00183 | .00236 | .00006 | .00026 | 1.30 | .00006 | .00064 | .00074 | .0065 | .00201 | .00125 | .00211 |
| %RSD | 297.68 | 73.178 | 29.645 | 32.566 | 13.211 | .49151 | 4.8170 | 7.2819 | 96.569 | .12771 | 153.93 | 11.737 | 46.137 |
| #1 | .05229 | -.00380 | .00961 | -.00014 | -.00175 | 266.37 | .00116 | .00921 | .00024 | 5.0772 | .00012 | .01155 | -.00309 |
| #2 | -.01861 | -.00121 | .00628 | -.00023 | -.00211 | 264.52 | .00125 | .00831 | .00128 | 5.0864 | -.00272 | .00978 | -.00608 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **.00038** | **5.0428** | **.00279** | **-.00170** | **9.9487** | **-.00127** | **.00329** | **-.04953** |
| Stddev | .00088 | .00003 | .0182 | .00012 | .00046 | .0182 | .00029 | .00001 | .00043 |
| %RSD | 130.74 | 8.4014 | .36109 | 4.2959 | 26.704 | .18287 | 22.586 | .32474 | .87358 |
| #1 | .00005 | .00040 | 5.0299 | .00270 | -.00203 | 9.9616 | -.00147 | .00328 | -.04984 |
| #2 | .00129 | .00036 | 5.0557 | .00287 | -.00138 | 9.9359 | -.00107 | .00329 | -.04922 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5664.0** | **70679.** | **4226.6** |
| Stddev | 10.0 | 104. | 4.1 |
| %RSD | .17681 | .14654 | .09769 |
| #1 | 5656.9 | 70606. | 4223.6 |
| #2 | 5671.1 | 70752. | 4229.5 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 21:09:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50050** | **.49100** | **.99331** | **.50867** | **.50266** | **.46916** | **.00047** | **4.7988** | **.49649** | **.50524** | **.49186** | **.48736** | **2.2504** |
| Stddev | .00017 | .00079 | .00158 | .00042 | .00393 | .00314 | .00086 | .0106 | .00079 | .00070 | .00002 | .00139 | .0097 |
| %RSD | .03478 | .16116 | .15933 | .08193 | .78134 | .66936 | 185.20 | .22114 | .15858 | .13788 | .00458 | .28467 | .43150 |
| #1 | .50037 | .49156 | .99443 | .50896 | .50544 | .47138 | .00108 | 4.8063 | .49705 | .50573 | .49188 | .48638 | 2.2436 |
| #2 | .50062 | .49044 | .99219 | .50837 | .49988 | .46694 | -.00014 | 4.7913 | .49593 | .50475 | .49185 | .48834 | 2.2573 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.453** | **1.0507** | **19.517** | **.49726** | **.48478** | **5.0222** | **.49909** | **1.0062** | **.99626** | **-.03844** | **.99641** | **1.0122** | **4.5733** |
| Stddev | .195 | .0031 | .016 | .00078 | .00014 | .0318 | .00093 | .0013 | .00015 | .00102 | .00160 | .0050 | .0111 |
| %RSD | .37201 | .29349 | .08276 | .15610 | .02905 | .63284 | .18728 | .12817 | .01456 | 2.6515 | .16066 | .49772 | .24187 |
| #1 | 52.591 | 1.0529 | 19.506 | .49671 | .48468 | 5.0447 | .49975 | 1.0071 | .99636 | -.03916 | .99528 | 1.0086 | 4.5655 |
| #2 | 52.315 | 1.0485 | 19.529 | .49781 | .48488 | 4.9997 | .49842 | 1.0053 | .99616 | -.03772 | .99755 | 1.0158 | 4.5811 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96406** | **.51098** | **.00330** | **.49159** | **.96054** | **-.03743** | **.48714** | **.49170** | **.47847** |
| Stddev | .00210 | .00236 | .00037 | .00168 | .00542 | .02002 | .00127 | .00068 | .00174 |
| %RSD | .21787 | .46251 | 11.187 | .34275 | .56424 | 53.492 | .26036 | .13872 | .36392 |
| #1 | .96554 | .51265 | .00356 | .49040 | .96437 | -.05158 | .48625 | .49121 | .47970 |
| #2 | .96257 | .50931 | .00304 | .49278 | .95671 | -.02327 | .48804 | .49218 | .47724 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5704.3** | **71873.** | **4265.5** |
| Stddev | 8.2 | 117. | 38.3 |
| %RSD | .14380 | .16345 | .89713 |
| #1 | 5710.1 | 71956. | 4238.5 |
| #2 | 5698.5 | 71790. | 4292.6 |

Sample Name: CCB Acquired: 5/16/2013 21:12:07 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **.00002** | **.00181** | **-.00001** | W **-.00094** | **.00000** | **.00019** | **-.00295** | **.00007** | **.00017** | **.00017** |
| Stddev | .00102 | .00020 | .00194 | .00017 | .00025 | .00007 | .00211 | .00239 | .00004 | .00016 | .00007 |
| %RSD | 143.24 | 1312.7 | 107.48 | 1893.1 | 26.868 | 3071.3 | 1110.1 | 80.866 | 65.377 | 95.826 | 40.500 |
| #1 | .00143 | -.00013 | .00318 | .00011 | -.00076 | -.00004 | .00168 | -.00464 | .00004 | .00028 | .00012 |
| #2 | -.00001 | .00016 | .00043 | -.00013 | -.00112 | .00005 | -.00130 | -.00126 | .00010 | .00005 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **-.00573** | **.00964** | W **-.00447** | **.00306** | **-.00009** | **-.00031** | **-.00960** | **.00003** | **.00014** | **.00005** |
| Stddev | .00010 | .00048 | .06474 | .00219 | .00052 | .00002 | .00001 | .00296 | .00012 | .00028 | .00036 |
| %RSD | 14.201 | 8.4449 | 671.56 | 48.879 | 16.956 | 28.311 | 2.3789 | 30.840 | 443.90 | 203.50 | 741.37 |
| #1 | -.00061 | -.00539 | .05542 | -.00293 | .00342 | -.00010 | -.00031 | -.00751 | .00011 | -.00006 | -.00021 |
| #2 | -.00075 | -.00607 | -.03614 | -.00602 | .00269 | -.00007 | -.00030 | -.01170 | -.00006 | .00033 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04275** | **-.00094** | W **.00524** | **.00596** | **.00035** | **.00004** | **-.00047** | **-.00014** | **-.00116** | **.00516** | W **-.00134** |
| Stddev | .00012 | .00166 | .00069 | .01417 | .00038 | .00001 | .00158 | .00008 | .00145 | .02907 | .00070 |
| %RSD | .28449 | 176.18 | 13.142 | 237.88 | 108.59 | 28.573 | 334.83 | 58.950 | 124.93 | 562.86 | 52.237 |
| #1 | -.04283 | -.00211 | .00475 | -.00406 | .00008 | .00003 | .00065 | -.00008 | -.00218 | -.01539 | -.00084 |
| #2 | -.04266 | .00023 | .00572 | .01597 | .00062 | .00004 | -.00159 | -.00020 | -.00014 | .02572 | -.00183 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00486 | | | | | | | | .00111 |
| Low Limit | | | -.00486 | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00238** | W **.00344** |
| Stddev | .00038 | .00197 |
| %RSD | 16.135 | 57.239 |
| #1 | .00211 | .00205 |
| #2 | .00266 | .00483 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5744.2** | **72256.** | **4261.8** |
| Stddev | 10.2 | 217. | 5.8 |
| %RSD | .17833 | .30067 | .13502 |
| #1 | 5751.5 | 72102. | 4265.8 |
| #2 | 5737.0 | 72409. | 4257.7 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 21:14:37 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01147** | **.10045** | **.01784** | **.10100** | **.00949** | **.00092** | **.10316** | **.19196** | **.00499** | **.01053** | **.01025** |
| Stddev | .00018 | .00021 | .00279 | .00048 | .00038 | .00007 | .00029 | .00093 | .00012 | .00012 | .00012 |
| %RSD | 1.5637 | .20954 | 15.628 | .47310 | 4.0128 | 7.3853 | .27645 | .48581 | 2.3522 | 1.1270 | 1.1478 |
| #1 | .01134 | .10060 | .01587 | .10067 | .00976 | .00087 | .10296 | .19261 | .00491 | .01062 | .01033 |
| #2 | .01159 | .10030 | .01982 | .10134 | .00922 | .00096 | .10337 | .19130 | .00507 | .01045 | .01016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01400** | **.08516** | **3.2745** | W **.00769** | **.20330** | **.01017** | **.01921** | **1.0118** | **.04081** | **2.9685** | **.00902** |
| Stddev | .00032 | .00251 | .0102 | .00051 | .00145 | .00007 | .00006 | .0008 | .00018 | .0033 | .00087 |
| %RSD | 2.2987 | 2.9530 | .31194 | 6.5880 | .71564 | .67324 | .32586 | .07696 | .43923 | .11169 | 9.6677 |
| #1 | .01423 | .08338 | 3.2817 | .00805 | .20227 | .01012 | .01926 | 1.0124 | .04093 | 2.9661 | .00841 |
| #2 | .01377 | .08694 | 3.2673 | .00733 | .20433 | .01022 | .01917 | 1.0113 | .04068 | 2.9708 | .00964 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04440** | **.00836** | W **.01822** | **.46099** | **.09743** | **.01027** | W **.01803** | **.00957** | **.01335** | F **.01578** | **.00869** |
| Stddev | .00091 | .00078 | .00159 | .01766 | .00087 | .00020 | .00047 | .00079 | .00083 | .04264 | .00018 |
| %RSD | 2.0423 | 9.3122 | 8.7049 | 3.8301 | .89464 | 1.9345 | 2.6335 | 8.2653 | 6.2483 | 270.14 | 2.0701 |
| #1 | -.04376 | .00781 | .01710 | .47348 | .09805 | .01041 | .01837 | .01013 | .01394 | -.01437 | .00857 |
| #2 | -.04504 | .00891 | .01934 | .44851 | .09681 | .01012 | .01770 | .00901 | .01276 | .04593 | .00882 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | .01500 | | | | .01500 | | | .06000 | |
| Range | | | 20.000% | | | | 20.000% | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02232** | **.01724** |
| Stddev | .00068 | .00086 |
| %RSD | 3.0609 | 4.9652 |
| #1 | .02281 | .01664 |
| #2 | .02184 | .01785 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5810.1** | **72887.** | **4285.6** |
| Stddev | 3.0 | 137. | 30.6 |
| %RSD | .05094 | .18761 | .71515 |
| #1 | 5808.0 | 72790. | 4264.0 |
| #2 | 5812.2 | 72984. | 4307.3 |

Sample Name: MB 280-173309/1-A Acquired: 5/16/2013 21:17:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **.00302** | **.00324** | **-.00084** | **-.00061** | **.00001** | **.00192** | **.00823** | **.00010** |
| Stddev | .00036 | .00011 | .00076 | .00022 | .00039 | .00005 | .00012 | .00217 | .00005 |
| %RSD | 33.096 | 3.6926 | 23.582 | 26.261 | 64.202 | 452.63 | 6.0623 | 26.344 | 49.694 |
| #1 | .00136 | .00310 | .00378 | -.00068 | -.00088 | .00005 | .00201 | .00977 | .00006 |
| #2 | .00084 | .00294 | .00270 | -.00099 | -.00033 | -.00002 | .00184 | .00670 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00012** | **-.00096** | **.00622** | **-.01739** | **-.00244** | **.00610** | **.00008** | **-.00034** |
| Stddev | .00001 | .00008 | .00025 | .00284 | .02076 | .00240 | .00143 | .00011 | .00014 |
| %RSD | 6.1892 | 64.345 | 26.096 | 45.589 | 119.38 | 98.245 | 23.478 | 148.78 | 42.685 |
| #1 | .00016 | .00007 | -.00078 | .00822 | -.03208 | -.00413 | .00712 | -.00000 | -.00024 |
| #2 | .00015 | .00018 | -.00113 | .00421 | -.00271 | -.00074 | .00509 | .00015 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02732** | **.00021** | F **.14699** | **.00113** | **-.03988** | **-.00248** | **.00120** | **.00987** | **.00068** |
| Stddev | .01542 | .00018 | .00167 | .00142 | .00138 | .00121 | .00031 | .00135 | .00078 |
| %RSD | 56.425 | 83.934 | 1.1328 | 125.92 | 3.4628 | 48.866 | 26.169 | 13.647 | 114.94 |
| #1 | -.01642 | .00033 | .14817 | .00012 | -.04086 | -.00334 | .00098 | .00892 | .00123 |
| #2 | -.03823 | .00009 | .14581 | .00213 | -.03890 | -.00162 | .00142 | .01083 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00033** | **-.00020** | **-.00036** | **-.01814** | **-.00141** | **.00277** | **.00008** |
| Stddev | .00000 | .00116 | .00028 | .00056 | .02206 | .00001 | .00016 | .00012 |
| %RSD | 8.2529 | 355.04 | 135.98 | 155.44 | 121.62 | .88813 | 5.7339 | 155.91 |
| #1 | .00005 | -.00049 | -.00040 | .00004 | -.00254 | -.00140 | .00266 | .00016 |
| #2 | .00006 | .00115 | -.00001 | -.00075 | -.03374 | -.00141 | .00288 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5834.1** | **73474.** | **4272.6** |
| Stddev | 8.9 | 94. | 13.5 |
| %RSD | .15266 | .12738 | .31703 |
| #1 | 5840.4 | 73408. | 4282.2 |
| #2 | 5827.8 | 73540. | 4263.0 |

Sample Name: LCS 280-173309/2-A Acquired: 5/16/2013 21:19:31 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05231** | **1.8992** | **1.0071** | **1.0383** | **2.0322** | **.04783** | **2.0258** | **47.043** | **.10175** |
| Stddev | .00032 | .0046 | .0025 | .0036 | .0030 | .00009 | .0022 | .100 | .00037 |
| %RSD | .61914 | .24005 | .25209 | .34683 | .14562 | .19681 | .10631 | .21185 | .36567 |
| #1 | .05254 | 1.8960 | 1.0053 | 1.0358 | 2.0343 | .04790 | 2.0243 | 47.114 | .10149 |
| #2 | .05208 | 1.9024 | 1.0089 | 1.0409 | 2.0301 | .04777 | 2.0273 | 46.973 | .10201 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49653** | **.19778** | **.24518** | **.89276** | **52.761** | **1.0449** | **49.037** | **.49399** | **.97578** |
| Stddev | .00111 | .00052 | .00078 | .00312 | .160 | .0010 | .116 | .00015 | .00133 |
| %RSD | .22424 | .26391 | .31915 | .34927 | .30249 | .09962 | .23601 | .03031 | .13645 |
| #1 | .49575 | .19741 | .24574 | .89497 | 52.874 | 1.0442 | 49.119 | .49409 | .97484 |
| #2 | .49732 | .19815 | .24463 | .89056 | 52.648 | 1.0457 | 48.955 | .49388 | .97672 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.570** | **.49090** | **10.485** | **.49165** | **-.04453** | **.50674** | **2.0666** | F **9.3299** | **1.9388** |
| Stddev | .580 | .00128 | .035 | .00030 | .00140 | .00085 | .0009 | .0166 | .0084 |
| %RSD | 1.0630 | .26095 | .33744 | .06043 | 3.1518 | .16806 | .04548 | .17815 | .43383 |
| #1 | 54.981 | .48999 | 10.460 | .49186 | -.04354 | .50734 | 2.0660 | 9.3182 | 1.9329 |
| #2 | 54.160 | .49180 | 10.510 | .49144 | -.04552 | .50614 | 2.0673 | 9.3417 | 1.9448 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 11.500 | |
| Low Limit | | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0177** | **1.0113** | **.98750** | **1.9352** | **2.0409** | **.49527** | **.48848** | **.46640** |
| Stddev | .0035 | .0024 | .00160 | .0050 | .0359 | .00035 | .00162 | .00222 |
| %RSD | .34528 | .24102 | .16241 | .25979 | 1.7577 | .07082 | .33073 | .47703 |
| #1 | 1.0202 | 1.0131 | .98863 | 1.9317 | 2.0155 | .49551 | .48962 | .46483 |
| #2 | 1.0152 | 1.0096 | .98636 | 1.9388 | 2.0663 | .49502 | .48734 | .46798 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5649.4** | **71207.** | **4243.6** |
| Stddev | 2.0 | 419. | 8.5 |
| %RSD | .03485 | .58809 | .20139 |
| #1 | 5648.0 | 70911. | 4237.6 |
| #2 | 5650.8 | 71503. | 4249.7 |

Sample Name: 280-41886-C-2-D  Acquired: 5/16/2013 21:21:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00119** | **.00758** | **.00260** | **.03513** | **-.00042** | **-.00006** | **-.00016** | **.19186** | **.00012** |
| Stddev | .00005 | .00058 | .00362 | .00019 | .00026 | .00013 | .00222 | .00064 | .00013 |
| %RSD | 4.3305 | 7.7045 | 139.43 | .54652 | 60.873 | 212.79 | 1346.5 | .33281 | 108.10 |
| #1 | .00122 | .00717 | .00004 | .03527 | -.00024 | -.00016 | .00140 | .19141 | .00003 |
| #2 | .00115 | .00800 | .00516 | .03500 | -.00060 | .00003 | -.00173 | .19231 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00020** | **-.00011** | **.01469** | **.04645** | **-.00430** | **.07614** | **.00016** | **-.00013** |
| Stddev | .00007 | .00009 | .00006 | .00237 | .02851 | .00088 | .00202 | .00001 | .00014 |
| %RSD | 971.93 | 43.854 | 60.503 | 16.137 | 61.383 | 20.404 | 2.6581 | 6.7692 | 106.97 |
| #1 | -.00006 | .00026 | -.00015 | .01636 | .06661 | -.00492 | .07757 | .00016 | -.00003 |
| #2 | .00004 | .00014 | -.00006 | .01301 | .02629 | -.00368 | .07471 | .00017 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32980** | **-.00014** | **.15037** | **.00154** | **-.00750** | **-.00115** | **.00163** | **.14522** | **-.00015** |
| Stddev | .01443 | .00006 | .00306 | .00251 | .00190 | .00067 | .00158 | .00718 | .00020 |
| %RSD | 4.3754 | 39.887 | 2.0338 | 162.52 | 25.388 | 57.638 | 96.600 | 4.9414 | 139.40 |
| #1 | .31960 | -.00010 | .15253 | -.00023 | -.00885 | -.00163 | .00275 | .15029 | -.00000 |
| #2 | .34000 | -.00019 | .14821 | .00332 | -.00615 | -.00068 | .00052 | .14014 | -.00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00153** | **-.00010** | **-.00087** | **-.01451** | **-.00038** | **.00296** | **.00468** |
| Stddev | .00007 | .00121 | .00011 | .00191 | .01116 | .00036 | .00002 | .00004 |
| %RSD | 8.7070 | 78.958 | 110.44 | 220.32 | 76.923 | 93.212 | .61064 | .85219 |
| #1 | .00086 | .00238 | -.00017 | -.00222 | -.02240 | -.00063 | .00298 | .00471 |
| #2 | .00076 | .00067 | -.00002 | .00048 | -.00662 | -.00013 | .00295 | .00466 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5813.3** | **73542.** | **4293.1** |
| Stddev | 8.9 | 80. | 8.9 |
| %RSD | .15383 | .10819 | .20681 |
| #1 | 5819.6 | 73486. | 4299.4 |
| #2 | 5807.0 | 73598. | 4286.8 |

Sample Name: sd 280-41886-C-2-D@5 Acquired: 5/16/2013 21:24:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **.00554** | **.00271** | **.00599** | **-.00072** | **-.00008** | **-.00013** | **.04289** | **.00002** |
| Stddev | .00059 | .00027 | .00057 | .00054 | .00020 | .00003 | .00099 | .00093 | .00025 |
| %RSD | 53.905 | 4.9066 | 20.897 | 9.0229 | 27.664 | 36.640 | 788.40 | 2.1589 | 1214.2 |
| #1 | .00150 | .00535 | .00311 | .00637 | -.00058 | -.00006 | -.00082 | .04224 | .00019 |
| #2 | .00067 | .00573 | .00231 | .00560 | -.00086 | -.00010 | .00057 | .04355 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00015** | **-.00052** | **.00790** | **-.06717** | **-.00216** | **.01628** | **.00008** | **-.00036** |
| Stddev | .00007 | .00008 | .00003 | .00177 | .02233 | .00353 | .00278 | .00003 | .00016 |
| %RSD | 23.996 | 50.837 | 4.8113 | 22.443 | 33.242 | 163.22 | 17.062 | 38.718 | 42.932 |
| #1 | .00032 | .00020 | -.00054 | .00664 | -.08296 | -.00466 | .01431 | .00010 | -.00047 |
| #2 | .00023 | .00010 | -.00050 | .00915 | -.05138 | .00033 | .01824 | .00006 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00716** | **-.00005** | **.02910** | **-.00101** | **-.03604** | **-.00261** | **.00308** | **.02733** | **.00016** |
| Stddev | .00945 | .00004 | .00176 | .00162 | .00015 | .00147 | .00231 | .00412 | .00058 |
| %RSD | 131.92 | 84.783 | 6.0652 | 160.82 | .40710 | 56.435 | 75.028 | 15.080 | 368.28 |
| #1 | .00048 | -.00002 | .03034 | -.00216 | -.03594 | -.00157 | .00472 | .02442 | -.00025 |
| #2 | .01384 | -.00008 | .02785 | .00014 | -.03614 | -.00365 | .00145 | .03025 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00235** | **-.00028** | **-.00103** | **-.01466** | **-.00108** | **.00307** | **.00188** |
| Stddev | .00010 | .00043 | .00035 | .00052 | .01894 | .00031 | .00049 | .00077 |
| %RSD | 39.656 | 18.193 | 127.89 | 50.275 | 129.25 | 28.747 | 15.915 | 40.907 |
| #1 | .00031 | .00266 | -.00003 | -.00066 | -.00126 | -.00130 | .00342 | .00133 |
| #2 | .00018 | .00205 | -.00053 | -.00140 | -.02805 | -.00086 | .00273 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5777.5** | **72435.** | **4272.2** |
| Stddev | 12.0 | 228. | 3.1 |
| %RSD | .20723 | .31456 | .07169 |
| #1 | 5769.0 | 72274. | 4270.0 |
| #2 | 5786.0 | 72596. | 4274.3 |

Sample Name: 280-41886-C-2-E MS  Acquired: 5/16/2013 21:26:43  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05303** | **1.9115** | **1.0074** | **1.0838** | **2.0452** | **.04790** | **2.0365** | **47.936** | **.10235** |
| Stddev | .00057 | .0016 | .0083 | .0022 | .0009 | .00016 | .0039 | .022 | .00008 |
| %RSD | 1.0715 | .08258 | .82555 | .20299 | .04284 | .34142 | .19349 | .04580 | .07844 |
| #1 | .05343 | 1.9126 | 1.0015 | 1.0822 | 2.0446 | .04802 | 2.0337 | 47.952 | .10241 |
| #2 | .05263 | 1.9104 | 1.0133 | 1.0853 | 2.0458 | .04779 | 2.0393 | 47.921 | .10230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50058** | **.19881** | **.24535** | **.91436** | **53.676** | **1.0591** | **49.236** | **.49612** | **.98460** |
| Stddev | .00068 | .00016 | .00033 | .00531 | .106 | .0017 | .065 | .00038 | .00038 |
| %RSD | .13649 | .08138 | .13515 | .58088 | .19666 | .16133 | .13295 | .07566 | .03832 |
| #1 | .50106 | .19869 | .24558 | .91811 | 53.751 | 1.0579 | 49.282 | .49585 | .98433 |
| #2 | .50010 | .19892 | .24511 | .91060 | 53.602 | 1.0603 | 49.190 | .49638 | .98487 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.723** | **.49386** | **10.567** | **.49710** | **-.00426** | **.51322** | **2.0849** | **9.5626** | **1.9488** |
| Stddev | .649 | .00025 | .005 | .00024 | .00580 | .00156 | .0067 | .0125 | .0045 |
| %RSD | 1.1651 | .05071 | .05011 | .04823 | 136.05 | .30455 | .32373 | .13027 | .22992 |
| #1 | 56.182 | .49368 | 10.563 | .49693 | -.00016 | .51211 | 2.0897 | 9.5538 | 1.9519 |
| #2 | 55.264 | .49404 | 10.571 | .49727 | -.00836 | .51432 | 2.0802 | 9.5714 | 1.9456 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0344** | **1.0174** | **.99417** | **1.9498** | **2.0125** | **.49498** | **.49061** | **.47167** |
| Stddev | .0001 | .0010 | .00022 | .0003 | .0030 | .00144 | .00075 | .00096 |
| %RSD | .00882 | .09915 | .02219 | .01689 | .15123 | .29079 | .15322 | .20390 |
| #1 | 1.0344 | 1.0181 | .99433 | 1.9500 | 2.0104 | .49600 | .49114 | .47235 |
| #2 | 1.0343 | 1.0167 | .99402 | 1.9496 | 2.0147 | .49397 | .49008 | .47099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5655.0** | **71308.** | **4233.5** |
| Stddev | 1.9 | 106. | 15.1 |
| %RSD | .03408 | .14801 | .35584 |
| #1 | 5653.7 | 71383. | 4222.8 |
| #2 | 5656.4 | 71233. | 4244.1 |

Sample Name: 280-41886-C-2-F MSD Acquired: 5/16/2013 21:28:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05260** | **1.8886** | **.99698** | **1.0750** | **2.0214** | **.04711** | **2.0213** | **47.609** | **.10157** |
| Stddev | .00011 | .0037 | .00124 | .0002 | .0094 | .00014 | .0001 | .167 | .00009 |
| %RSD | .21811 | .19716 | .12422 | .01568 | .46686 | .30640 | .00408 | .35127 | .09003 |
| #1 | .05252 | 1.8860 | .99610 | 1.0749 | 2.0147 | .04701 | 2.0213 | 47.491 | .10150 |
| #2 | .05268 | 1.8912 | .99785 | 1.0751 | 2.0280 | .04722 | 2.0212 | 47.728 | .10163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49487** | **.19647** | **.24165** | **.89992** | **53.579** | **1.0544** | **48.566** | **.48854** | **.97735** |
| Stddev | .00021 | .00013 | .00011 | .00343 | .173 | .0004 | .002 | .00071 | .00249 |
| %RSD | .04318 | .06847 | .04446 | .38161 | .32298 | .04285 | .00391 | .14533 | .25488 |
| #1 | .49502 | .19637 | .24173 | .89750 | 53.456 | 1.0541 | 48.565 | .48804 | .97559 |
| #2 | .49472 | .19656 | .24158 | .90235 | 53.701 | 1.0548 | 48.567 | .48905 | .97911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.845** | **.48856** | **10.460** | **.49161** | **-.00509** | **.50557** | **2.0555** | **9.4831** | **1.9287** |
| Stddev | .144 | .00089 | .015 | .00077 | .00152 | .00005 | .0025 | .0100 | .0085 |
| %RSD | .26193 | .18246 | .14563 | .15640 | 29.857 | .00966 | .12052 | .10506 | .44111 |
| #1 | 54.947 | .48793 | 10.449 | .49107 | -.00401 | .50561 | 2.0572 | 9.4760 | 1.9227 |
| #2 | 54.744 | .48919 | 10.471 | .49216 | -.00616 | .50554 | 2.0537 | 9.4901 | 1.9347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0263** | **1.0068** | **.98149** | **1.9324** | **2.0367** | **.48708** | **.48523** | **.46185** |
| Stddev | .0047 | .0065 | .00243 | .0075 | .0113 | .00007 | .00013 | .00162 |
| %RSD | .45763 | .64471 | .24765 | .39033 | .55533 | .01441 | .02772 | .34985 |
| #1 | 1.0229 | 1.0022 | .97978 | 1.9271 | 2.0287 | .48704 | .48513 | .46071 |
| #2 | 1.0296 | 1.0114 | .98321 | 1.9378 | 2.0447 | .48713 | .48532 | .46300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5659.1** | **71579.** | **4221.8** |
| Stddev | 4.0 | 127. | 9.4 |
| %RSD | .07003 | .17802 | .22244 |
| #1 | 5661.9 | 71489. | 4215.2 |
| #2 | 5656.3 | 71669. | 4228.5 |

Sample Name: pds 280-41886-C-2-D  Acquired: 5/16/2013 21:31:11  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04959** | **.99180** | **.20261** | **.14240** | **.10275** | **.04826** | **-.00464** | **19.578** | **.05160** |
| Stddev | .00014 | .00411 | .00050 | .00029 | .00016 | .00027 | .00033 | .057 | .00023 |
| %RSD | .27269 | .41431 | .24694 | .20052 | .15577 | .55439 | 7.1175 | .28859 | .43809 |
| #1 | .04969 | .98890 | .20296 | .14219 | .10286 | .04844 | -.00441 | 19.538 | .05144 |
| #2 | .04950 | .99471 | .20226 | .14260 | .10264 | .04807 | -.00487 | 19.618 | .05176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05186** | **.05126** | **.04983** | **.95755** | **21.880** | **.10954** | **19.959** | **.05120** | **.04998** |
| Stddev | .00041 | .00004 | .00041 | .00367 | .074 | .00133 | .018 | .00012 | .00033 |
| %RSD | .78725 | .08617 | .82116 | .38312 | .33957 | 1.2135 | .08905 | .23339 | .65424 |
| #1 | .05158 | .05123 | .04954 | .96014 | 21.828 | .11048 | 19.971 | .05111 | .04975 |
| #2 | .05215 | .05129 | .05012 | .95495 | 21.933 | .10860 | 19.946 | .05128 | .05021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.487** | **.05108** | **2.2554** | **.10296** | **-.00041** | **.10225** | **.21019** | **4.8805** | **.09990** |
| Stddev | .225 | .00052 | .0113 | .00055 | .00052 | .00005 | .00013 | .0065 | .00006 |
| %RSD | .95597 | 1.0092 | .49885 | .53728 | 128.00 | .04438 | .06041 | .13364 | .05750 |
| #1 | 23.646 | .05072 | 2.2474 | .10257 | -.00078 | .10228 | .21010 | 4.8851 | .09994 |
| #2 | 23.328 | .05145 | 2.2633 | .10335 | -.00004 | .10221 | .21028 | 4.8759 | .09986 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05488** | **.21205** | **.05079** | **.20117** | **.47814** | **.04937** | **.20592** | **.04905** |
| Stddev | .00015 | .00178 | .00032 | .00016 | .03519 | .00061 | .00016 | .00151 |
| %RSD | .26554 | .83912 | .63527 | .07711 | 7.3606 | 1.2350 | .07816 | 3.0690 |
| #1 | .05498 | .21331 | .05056 | .20128 | .45325 | .04894 | .20603 | .04798 |
| #2 | .05477 | .21079 | .05102 | .20106 | .50302 | .04981 | .20580 | .05011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5748.6** | **72545.** | **4280.0** |
| Stddev | 8.5 | 44. | 12.0 |
| %RSD | .14867 | .06102 | .27955 |
| #1 | 5754.6 | 72513. | 4288.5 |
| #2 | 5742.5 | 72576. | 4271.6 |

Sample Name: 280-41903-A-1-A Acquired: 5/16/2013 21:33:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173309 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **.00325** | **.00778** | **.01346** | **.02580** | **-.00007** | **-.00505** | **64.511** | **.00018** |
| Stddev | .00000 | .00007 | .00040 | .00026 | .00025 | .00002 | .00165 | .696 | .00007 |
| %RSD | .24933 | 2.1923 | 5.1168 | 1.9038 | .95378 | 29.899 | 32.765 | 1.0783 | 40.068 |
| #1 | .00096 | .00330 | .00750 | .01328 | .02563 | -.00005 | -.00388 | 64.019 | .00013 |
| #2 | .00096 | .00320 | .00806 | .01365 | .02598 | -.00008 | -.00622 | 65.003 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00555** | **.00044** | **.00043** | **4.2961** | **1.5986** | **-.00133** | **27.981** | **1.1706** | **.00510** |
| Stddev | .00009 | .00011 | .00008 | .0125 | .0213 | .00204 | .075 | .0025 | .00004 |
| %RSD | 1.6081 | 23.919 | 19.181 | .29055 | 1.3295 | 153.36 | .26735 | .21429 | .82511 |
| #1 | .00549 | .00037 | .00037 | 4.2873 | 1.5836 | -.00278 | 28.034 | 1.1724 | .00513 |
| #2 | .00561 | .00052 | .00049 | 4.3049 | 1.6137 | .00011 | 27.929 | 1.1688 | .00507 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1861** | **.00307** | **.25581** | **.00176** | **.49131** | **-.00073** | **.00127** | **10.449** | **.00033** |
| Stddev | .0325 | .00006 | .00006 | .00054 | .00127 | .00221 | .00696 | .028 | .00054 |
| %RSD | 1.0200 | 2.1129 | .02278 | 30.698 | .25943 | 303.08 | 549.05 | .26417 | 164.31 |
| #1 | 3.1632 | .00312 | .25577 | .00138 | .49041 | -.00229 | .00619 | 10.429 | .00070 |
| #2 | 3.2091 | .00302 | .25585 | .00214 | .49222 | .00083 | -.00366 | 10.468 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05603** | **.00101** | **.00012** | **-.00272** | **-.04700** | **-.00026** | **.01087** | **.00235** |
| Stddev | .00021 | .00164 | .00006 | .00057 | .00904 | .00001 | .00005 | .00095 |
| %RSD | .36855 | 163.59 | 54.069 | 20.901 | 19.231 | 2.2331 | .47324 | 40.677 |
| #1 | .05588 | -.00016 | .00016 | -.00232 | -.04060 | -.00026 | .01083 | .00302 |
| #2 | .05617 | .00217 | .00007 | -.00312 | -.05339 | -.00027 | .01090 | .00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5718.9** | **72299.** | **4286.2** |
| Stddev | 9.9 | 156. | 39.2 |
| %RSD | .17367 | .21521 | .91369 |
| #1 | 5726.0 | 72188. | 4313.9 |
| #2 | 5711.9 | 72409. | 4258.5 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 21:35:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00123** | **48.122** | **.00051** | **.00063** | **-.00055** | **-.00001** | **1.0022** | **.00953** | **-.00077** | **.00181** | **.00016** | **-.00041** | **45.607** |
| Stddev | .00052 | .124 | .00003 | .00002 | .00024 | .00009 | .0024 | .00198 | .00004 | .00011 | .00020 | .00037 | .078 |
| %RSD | 42.283 | .25672 | 6.5205 | 2.6285 | 42.857 | 690.11 | .23467 | 20.741 | 4.6595 | 5.9021 | 127.08 | 88.633 | .17115 |
| #1 | .00159 | 48.035 | .00048 | .00064 | -.00072 | .00005 | 1.0038 | .00813 | -.00075 | .00189 | .00029 | -.00015 | 45.662 |
| #2 | .00086 | 48.210 | .00053 | .00062 | -.00038 | -.00007 | 1.0005 | .01092 | -.00080 | .00174 | .00002 | -.00067 | 45.552 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01556** | **-.00356** | **.01225** | **.00047** | **-.00176** | **267.35** | **.00112** | **.01002** | **-.00002** | **5.1136** | **-.00053** | **.00654** | **.00675** |
| Stddev | .00153 | .00211 | .00472 | .00016 | .00033 | .15 | .00003 | .00014 | .00026 | .0051 | .00102 | .00055 | .01037 |
| %RSD | 9.8298 | 59.323 | 38.576 | 34.359 | 18.992 | .05529 | 3.0730 | 1.3712 | 1670.8 | .09930 | 190.92 | 8.3970 | 153.67 |
| #1 | .01664 | -.00207 | .01559 | .00059 | -.00152 | 267.46 | .00109 | .00992 | .00017 | 5.1100 | -.00125 | .00693 | -.00058 |
| #2 | .01448 | -.00505 | .00890 | .00036 | -.00199 | 267.25 | .00114 | .01012 | -.00020 | 5.1172 | .00019 | .00615 | .01408 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00053** | **5.0083** | **.00232** | **-.00051** | **10.020** | **-.00135** | **.00420** | **-.04177** |
| Stddev | .00049 | .00017 | .0044 | .00004 | .00197 | .004 | .00046 | .00024 | .00004 |
| %RSD | 76.067 | 31.590 | .08792 | 1.8318 | 388.07 | .04203 | 33.947 | 5.7404 | .08907 |
| #1 | .00030 | .00041 | 5.0115 | .00235 | -.00190 | 10.023 | -.00167 | .00437 | -.04180 |
| #2 | .00099 | .00065 | 5.0052 | .00229 | .00089 | 10.017 | -.00102 | .00403 | -.04174 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5664.1** | **71299.** | **4225.7** |
| Stddev | 3.5 | 296. | 15.4 |
| %RSD | .06189 | .41472 | .36534 |
| #1 | 5666.6 | 71090. | 4214.8 |
| #2 | 5661.6 | 71508. | 4236.7 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 21:38:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50233** | **.49132** | **1.0088** | **.51172** | **.50555** | **.47448** | **.00007** | **4.8586** | **.49768** | **.50761** | **.49733** | **.49132** | **2.2726** |
| Stddev | .00198 | .00034 | .0029 | .00144 | .00021 | .00085 | .00113 | .0078 | .00091 | .00104 | .00038 | .00182 | .0052 |
| %RSD | .39383 | .06893 | .29007 | .28073 | .04074 | .17990 | 1654.0 | .16122 | .18320 | .20535 | .07663 | .37031 | .22658 |
| #1 | .50373 | .49108 | 1.0108 | .51273 | .50569 | .47509 | .00087 | 4.8531 | .49832 | .50835 | .49760 | .49261 | 2.2762 |
| #2 | .50093 | .49156 | 1.0067 | .51070 | .50540 | .47388 | -.00073 | 4.8642 | .49703 | .50687 | .49706 | .49004 | 2.2690 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.220** | **1.0627** | **19.639** | **.49909** | **.49208** | **5.0731** | **.50423** | **1.0181** | **.99880** | **-.04565** | **1.0027** | **1.0250** | **4.6537** |
| Stddev | .094 | .0031 | .090 | .00188 | .00091 | .0145 | .00060 | .0013 | .00224 | .00070 | .0010 | .0003 | .0054 |
| %RSD | .17679 | .29442 | .45934 | .37620 | .18592 | .28608 | .11812 | .12865 | .22442 | 1.5310 | .10386 | .03085 | .11574 |
| #1 | 53.287 | 1.0649 | 19.703 | .50042 | .49273 | 5.0834 | .50465 | 1.0190 | 1.0004 | -.04614 | 1.0034 | 1.0248 | 4.6499 |
| #2 | 53.154 | 1.0605 | 19.575 | .49776 | .49144 | 5.0628 | .50381 | 1.0172 | .99721 | -.04516 | 1.0019 | 1.0253 | 4.6575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98093** | **.51450** | **.00085** | **.49363** | **.97640** | **-.01377** | **.49033** | **.49371** | **.47930** |
| Stddev | .00515 | .00062 | .00129 | .00141 | .00904 | .01137 | .00296 | .00226 | .00168 |
| %RSD | .52453 | .12067 | 152.76 | .28570 | .92536 | 82.563 | .60314 | .45774 | .35061 |
| #1 | .98457 | .51493 | -.00007 | .49463 | .98279 | -.02181 | .49242 | .49531 | .48049 |
| #2 | .97729 | .51406 | .00176 | .49264 | .97001 | -.00573 | .48823 | .49211 | .47811 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5735.8** | **72201.** | **4231.9** |
| Stddev | 13.6 | 306. | 1.4 |
| %RSD | .23663 | .42350 | .03343 |
| #1 | 5726.2 | 71985. | 4230.9 |
| #2 | 5745.4 | 72417. | 4232.9 |

Sample Name: CCB Acquired: 5/16/2013 21:40:37 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00093** | **.00019** | **.00355** | **.00000** | W **-.00073** | **-.00005** | **.00064** | **-.00366** | **-.00007** | **.00041** | **.00019** |
| Stddev | .00015 | .00029 | .00026 | .00002 | .00024 | .00005 | .00034 | .00206 | .00005 | .00003 | .00007 |
| %RSD | 16.572 | 157.91 | 7.3292 | 450.86 | 31.987 | 99.672 | 53.055 | 56.329 | 65.306 | 6.1391 | 35.361 |
| #1 | .00082 | .00039 | .00374 | .00002 | -.00057 | -.00002 | .00088 | -.00511 | -.00004 | .00043 | .00014 |
| #2 | .00104 | -.00002 | .00337 | -.00001 | -.00090 | -.00009 | .00040 | -.00220 | -.00011 | .00040 | .00024 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | .00058 | | | | | | |
| Low Limit | -.00093 | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **-.00683** | **.01255** | W **-.00328** | **.00110** | **-.00006** | **-.00022** | **-.03478** | **-.00022** | **-.00078** | **.00120** |
| Stddev | .00001 | .00388 | .06112 | .00037 | .00060 | .00005 | .00008 | .00085 | .00022 | .00030 | .00203 |
| %RSD | 1.6245 | 56.867 | 487.07 | 11.373 | 54.171 | 76.716 | 37.826 | 2.4303 | 97.914 | 39.034 | 169.48 |
| #1 | -.00068 | -.00408 | -.03067 | -.00302 | .00068 | -.00009 | -.00016 | -.03419 | -.00037 | -.00056 | .00263 |
| #2 | -.00070 | -.00958 | .05576 | -.00354 | .00153 | -.00003 | -.00028 | -.03538 | -.00007 | -.00099 | -.00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04787** | **.00130** | **.00281** | **-.00663** | **.00035** | **.00009** | **.00232** | **-.00010** | **-.00189** | **-.01516** | **-.00100** |
| Stddev | .00577 | .00115 | .00193 | .00095 | .00061 | .00028 | .00334 | .00034 | .00188 | .00722 | .00018 |
| %RSD | 12.056 | 88.683 | 68.442 | 14.405 | 173.56 | 317.75 | 143.72 | 346.96 | 99.085 | 47.605 | 17.724 |
| #1 | -.05195 | .00211 | .00145 | -.00595 | -.00008 | -.00011 | .00468 | -.00034 | -.00322 | -.02027 | -.00087 |
| #2 | -.04379 | .00048 | .00417 | -.00730 | .00078 | .00028 | -.00004 | .00014 | -.00057 | -.01006 | -.00112 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00246** | **.00181** |
| Stddev | .00017 | .00194 |
| %RSD | 7.0717 | 107.56 |
| #1 | .00258 | .00318 |
| #2 | .00234 | .00043 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5684.2** | **72190.** | **4220.7** |
| Stddev | .9 | 205. | 3.8 |
| %RSD | .01523 | .28365 | .09026 |
| #1 | 5683.6 | 72045. | 4223.4 |
| #2 | 5684.8 | 72335. | 4218.0 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 21:43:07 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01096** | **.09983** | **.01631** | **.10142** | **.00960** | **.00094** | **.10621** | **.19646** | **.00489** | **.01077** | **.01020** | **.01434** |
| Stddev | .00019 | .00016 | .00096 | .00028 | .00015 | .00004 | .00072 | .00573 | .00009 | .00004 | .00005 | .00004 |
| %RSD | 1.7552 | .16183 | 5.8912 | .28031 | 1.6131 | 3.8310 | .67411 | 2.9179 | 1.9157 | .33088 | .51104 | .28677 |
| #1 | .01110 | .09971 | .01699 | .10122 | .00949 | .00096 | .10672 | .19241 | .00496 | .01074 | .01024 | .01431 |
| #2 | .01083 | .09994 | .01563 | .10162 | .00971 | .00091 | .10571 | .20051 | .00483 | .01079 | .01016 | .01436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08896** | **3.2804** | **.00895** | **.20586** | **.01018** | **.01906** | **1.0058** | **.04096** | **2.9786** | **.01023** | **-.04539** | **.00941** |
| Stddev | .00213 | .0407 | .00130 | .00276 | .00002 | .00015 | .0029 | .00013 | .0107 | .00069 | .00270 | .00204 |
| %RSD | 2.3962 | 1.2409 | 14.520 | 1.3399 | .17975 | .78990 | .28548 | .31584 | .36005 | 6.7861 | 5.9529 | 21.660 |
| #1 | .08745 | 3.3092 | .00987 | .20781 | .01019 | .01895 | 1.0038 | .04087 | 2.9710 | .00974 | -.04730 | .00797 |
| #2 | .09046 | 3.2516 | .00803 | .20391 | .01016 | .01916 | 1.0079 | .04105 | 2.9862 | .01072 | -.04348 | .01085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01707** | **.46390** | **.09795** | **.01053** | **.01732** | **.00984** | **.01387** | F **.02263** | **.00885** | **.02285** | **.01586** |
| Stddev | .00355 | .00669 | .00009 | .00015 | .00211 | .00035 | .00035 | .03473 | .00005 | .00063 | .00050 |
| %RSD | 20.799 | 1.4420 | .08820 | 1.4227 | 12.201 | 3.5945 | 2.5335 | 153.45 | .53094 | 2.7451 | 3.1785 |
| #1 | .01456 | .45917 | .09789 | .01042 | .01881 | .00959 | .01362 | -.00192 | .00881 | .02330 | .01550 |
| #2 | .01958 | .46863 | .09801 | .01063 | .01582 | .01009 | .01411 | .04719 | .00888 | .02241 | .01621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .06000 | | | |
| Range | | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5745.9** | **71930.** | **4175.4** |
| Stddev | 3.7 | 244. | 31.9 |
| %RSD | .06413 | .33905 | .76367 |
| #1 | 5748.5 | 71757. | 4152.8 |
| #2 | 5743.3 | 72102. | 4197.9 |

Sample Name: MB 280-173865/1-A Acquired: 5/16/2013 21:45:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **.00875** | **.00458** | **.00003** | **-.00050** | **-.00003** | **-.00112** | **.09120** | **.00013** |
| Stddev | .00001 | .00010 | .00160 | .00004 | .00009 | .00001 | .00001 | .00140 | .00008 |
| %RSD | .92831 | 1.1353 | 34.891 | 155.49 | 17.876 | 56.650 | .97709 | 1.5311 | 61.380 |
| #1 | .00130 | .00882 | .00345 | .00006 | -.00044 | -.00002 | -.00113 | .09219 | .00008 |
| #2 | .00131 | .00868 | .00571 | -.00000 | -.00057 | -.00004 | -.00112 | .09021 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00046** | **.00092** | **.00832** | **.03899** | **-.00202** | **.01486** | **.00025** | **-.00017** |
| Stddev | .00007 | .00010 | .00019 | .00136 | .03500 | .00223 | .00016 | .00006 | .00011 |
| %RSD | 502.41 | 21.666 | 20.437 | 16.360 | 89.777 | 110.44 | 1.0778 | 25.046 | 66.035 |
| #1 | .00003 | .00039 | .00079 | .00736 | .01424 | -.00359 | .01475 | .00020 | -.00009 |
| #2 | -.00006 | .00053 | .00105 | .00928 | .06374 | -.00044 | .01497 | .00029 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22654** | **-.00003** | F **.09027** | **.00130** | **-.00309** | **-.00166** | **.00204** | **.03084** | **.00988** |
| Stddev | .01098 | .00031 | .00019 | .00091 | .00314 | .00165 | .00284 | .00903 | .00029 |
| %RSD | 4.8489 | 920.52 | .21054 | 70.596 | 101.58 | 99.614 | 138.82 | 29.277 | 2.9655 |
| #1 | .21877 | -.00025 | .09040 | .00065 | -.00531 | -.00049 | .00405 | .02446 | .01008 |
| #2 | .23431 | .00018 | .09014 | .00194 | -.00087 | -.00282 | .00004 | .03723 | .00967 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00006** | **.00047** | **-.00031** | **-.01564** | **-.00073** | **.00369** | **.00210** |
| Stddev | .00007 | .00028 | .00003 | .00098 | .03173 | .00065 | .00014 | .00175 |
| %RSD | 51.150 | 439.76 | 7.0115 | 319.19 | 202.89 | 88.416 | 3.9146 | 83.278 |
| #1 | .00019 | -.00013 | .00050 | -.00100 | .00680 | -.00119 | .00379 | .00333 |
| #2 | .00009 | .00026 | .00045 | .00039 | -.03807 | -.00027 | .00359 | .00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5760.1** | **72883.** | **4245.7** |
| Stddev | 11.5 | 176. | 22.5 |
| %RSD | .20047 | .24149 | .52941 |
| #1 | 5751.9 | 73008. | 4229.8 |
| #2 | 5768.3 | 72759. | 4261.6 |

Sample Name: LCS 280-173865/2-A Acquired: 5/16/2013 21:48:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05171** | **1.8439** | **.97951** | **.99178** | **1.9839** | **.04660** | **1.9796** | **46.362** | **.09924** |
| Stddev | .00016 | .0054 | .00601 | .00243 | .0226 | .00059 | .0035 | .492 | .00003 |
| %RSD | .31745 | .29048 | .61370 | .24463 | 1.1392 | 1.2694 | .17766 | 1.0609 | .02723 |
| #1 | .05183 | 1.8477 | .98376 | .99350 | 1.9999 | .04702 | 1.9821 | 46.709 | .09926 |
| #2 | .05160 | 1.8401 | .97526 | .99007 | 1.9679 | .04619 | 1.9772 | 46.014 | .09923 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48751** | **.19397** | **.24108** | **.88592** | **52.346** | **1.0365** | **47.559** | **.47908** | **.96508** |
| Stddev | .00104 | .00019 | .00202 | .00512 | .501 | .0091 | .053 | .00008 | .00108 |
| %RSD | .21428 | .10024 | .83605 | .57846 | .95655 | .87949 | .11222 | .01744 | .11141 |
| #1 | .48825 | .19383 | .24250 | .88954 | 52.700 | 1.0429 | 47.597 | .47902 | .96584 |
| #2 | .48677 | .19410 | .23965 | .88229 | 51.992 | 1.0300 | 47.521 | .47913 | .96432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.286** | **.48257** | **10.171** | **.47871** | **-.00660** | **.49113** | **1.9796** | F **.99377** | **1.9030** |
| Stddev | .693 | .00023 | .018 | .00192 | .00454 | .00331 | .0011 | .01587 | .0005 |
| %RSD | 1.2774 | .04775 | .17537 | .40058 | 68.822 | .67436 | .05782 | 1.5969 | .02502 |
| #1 | 54.776 | .48240 | 10.184 | .47735 | -.00339 | .49347 | 1.9788 | 1.0050 | 1.9034 |
| #2 | 53.796 | .48273 | 10.159 | .48006 | -.00981 | .48879 | 1.9804 | .98255 | 1.9027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 7.0000 | |
| Low Limit | | | | | | | | 1.0000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99840** | **.98355** | **.96147** | **1.8960** | **1.9586** | **.47880** | **.47442** | **.45718** |
| Stddev | .00812 | .00001 | .00170 | .0003 | .0132 | .00102 | .00100 | .00145 |
| %RSD | .81312 | .00130 | .17630 | .01310 | .67186 | .21334 | .21044 | .31607 |
| #1 | 1.0041 | .98354 | .96267 | 1.8962 | 1.9679 | .47953 | .47371 | .45616 |
| #2 | .99266 | .98356 | .96027 | 1.8958 | 1.9493 | .47808 | .47512 | .45821 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5574.0** | **70691.** | **4177.9** |
| Stddev | 5.2 | 129. | 71.5 |
| %RSD | .09348 | .18312 | 1.7121 |
| #1 | 5570.3 | 70600. | 4127.3 |
| #2 | 5577.7 | 70783. | 4228.5 |

Sample Name: 280-42023-A-1-A  Acquired: 5/16/2013 21:50:17  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **44.768** | **.03898** | **.02565** | **1.3055** | **.00234** | **-.00593** | W **744.50** | **.00048** |
| Stddev | .00007 | .221 | .00326 | .00012 | .0038 | .00016 | .00119 | .29 | .00012 |
| %RSD | 6.9550 | .49434 | 8.3554 | .48613 | .29295 | 6.9812 | 20.103 | .03956 | 24.465 |
| #1 | .00092 | 44.612 | .03668 | .02556 | 1.3028 | .00246 | -.00509 | 744.71 | .00056 |
| #2 | .00102 | 44.925 | .04128 | .02573 | 1.3082 | .00222 | -.00677 | 744.29 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02239** | **.14750** | **.04096** | **32.293** | **11.026** | **.04857** | **23.791** | **1.9272** | **.00435** |
| Stddev | .00001 | .00056 | .00051 | .183 | .098 | .00088 | .032 | .0012 | .00017 |
| %RSD | .06682 | .38082 | 1.2520 | .56531 | .88711 | 1.8174 | .13419 | .06382 | 3.8377 |
| #1 | .02240 | .14710 | .04133 | 32.164 | 10.957 | .04794 | 23.814 | 1.9281 | .00447 |
| #2 | .02238 | .14789 | .04060 | 32.422 | 11.096 | .04919 | 23.768 | 1.9263 | .00423 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.70076** | **.04079** | **2.3104** | **.05555** | **2.8896** | **.00298** | **.01595** | **2.2543** | **.00458** |
| Stddev | .01072 | .00056 | .0121 | .00209 | .0182 | .00054 | .00240 | .0198 | .00137 |
| %RSD | 1.5292 | 1.3810 | .52498 | 3.7583 | .63166 | 18.135 | 15.065 | .87659 | 29.934 |
| #1 | .69318 | .04039 | 2.3018 | .05703 | 2.8767 | .00337 | .01765 | 2.2683 | .00361 |
| #2 | .70834 | .04119 | 2.3189 | .05407 | 2.9025 | .00260 | .01425 | 2.2403 | .00555 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.78040** | **.02658** | **.23140** | **-.00157** | **.49246** | **.64663** | **.12924** | **.02839** |
| Stddev | .00353 | .00222 | .00185 | .00092 | .01842 | .00275 | .00032 | .00076 |
| %RSD | .45179 | 8.3617 | .79909 | 58.798 | 3.7399 | .42547 | .24829 | 2.6645 |
| #1 | .77791 | .02501 | .23009 | -.00092 | .47943 | .64857 | .12947 | .02785 |
| #2 | .78290 | .02815 | .23271 | -.00222 | .50548 | .64468 | .12902 | .02892 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5509.0** | **69701.** | **4285.5** |
| Stddev | 1.4 | 261. | 11.3 |
| %RSD | .02607 | .37408 | .26371 |
| #1 | 5508.0 | 69516. | 4293.5 |
| #2 | 5510.0 | 69885. | 4277.5 |

Sample Name: 280-42023-A-2-B Acquired: 5/16/2013 21:53:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **57.473** | **.02395** | **.03087** | **1.0645** | **.00277** | **-.00357** | **272.65** | **.00124** |
| Stddev | .00014 | .253 | .00133 | .00047 | .0015 | .00000 | .00018 | .96 | .00027 |
| %RSD | 15.861 | .43979 | 5.5551 | 1.5317 | .13885 | .02655 | 4.9525 | .35328 | 21.435 |
| #1 | .00097 | 57.652 | .02489 | .03054 | 1.0656 | .00277 | -.00370 | 273.33 | .00105 |
| #2 | .00078 | 57.294 | .02301 | .03120 | 1.0635 | .00277 | -.00345 | 271.96 | .00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02114** | **.03762** | **.05669** | **46.259** | **21.239** | **.03793** | **19.483** | **2.3059** | **.00251** |
| Stddev | .00004 | .00012 | .00024 | .038 | .110 | .00057 | .002 | .0015 | .00027 |
| %RSD | .18545 | .31615 | .42600 | .08315 | .51651 | 1.5107 | .00912 | .06582 | 10.669 |
| #1 | .02116 | .03753 | .05686 | 46.287 | 21.316 | .03753 | 19.482 | 2.3070 | .00270 |
| #2 | .02111 | .03770 | .05652 | 46.232 | 21.161 | .03834 | 19.484 | 2.3049 | .00232 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49274** | **.03119** | **2.6285** | **.07193** | **1.5185** | **-.00241** | **.01104** | **2.4120** | **.00482** |
| Stddev | .00470 | .00013 | .0003 | .00087 | .0037 | .00028 | .00138 | .0221 | .00059 |
| %RSD | .95292 | .42193 | .00948 | 1.2116 | .24118 | 11.699 | 12.514 | .91466 | 12.193 |
| #1 | .49606 | .03128 | 2.6287 | .07254 | 1.5211 | -.00221 | .01201 | 2.4276 | .00524 |
| #2 | .48942 | .03110 | 2.6283 | .07131 | 1.5159 | -.00261 | .01006 | 2.3964 | .00440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34891** | **.03375** | **.28852** | **-.00222** | W **-.05991** | **.34323** | **.21262** | **.02634** |
| Stddev | .00189 | .00208 | .00076 | .00248 | .00384 | .00061 | .00053 | .00138 |
| %RSD | .54095 | 6.1704 | .26284 | 111.43 | 6.4045 | .17664 | .25113 | 5.2237 |
| #1 | .35025 | .03228 | .28905 | -.00397 | -.05719 | .34366 | .21224 | .02537 |
| #2 | .34758 | .03523 | .28798 | -.00047 | -.06262 | .34280 | .21299 | .02731 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5686.9** | **71409.** | **4368.4** |
| Stddev | .7 | 104. | 17.2 |
| %RSD | .01236 | .14494 | .39363 |
| #1 | 5686.4 | 71482. | 4356.3 |
| #2 | 5687.4 | 71336. | 4380.6 |

Sample Name: 280-42023-A-3-A Acquired: 5/16/2013 21:55:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00080** | **55.014** | k **.01950** | **.04053** | **2.1846** | k **.00255** | kW **-.01285** | W **752.89** | k **.00128** |
| Stddev | .00023 | .096 | .00203 | .00034 | .0063 | .00001 | .00178 | 5.98 | .00004 |
| %RSD | 29.192 | .17371 | 10.390 | .84939 | .28863 | .28828 | 13.888 | .79473 | 3.3623 |
| #1 | k .00063 | 55.081 | k .02093 | .04029 | 2.1890 | k .00255 | k -.01159 | 757.12 | k .00125 |
| #2 | k .00096 | 54.946 | k .01807 | .04077 | 2.1801 | k .00256 | k -.01411 | 748.66 | k .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| High Limit | | | | | | | 3.0000 | 500.00 | |
| Low Limit | | | | | | | -.01000 | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.02307** | **.04220** | k **.08894** | k **41.820** | **21.194** | **.04485** | **25.194** | **2.9225** | **.00391** |
| Stddev | .00023 | .00014 | .00015 | .099 | .063 | .00171 | .038 | .0056 | .00005 |
| %RSD | .99060 | .34328 | .16314 | .23767 | .29638 | 3.8033 | .15130 | .19275 | 1.3546 |
| #1 | k .02291 | .04210 | k .08905 | k 41.750 | 21.238 | .04364 | 25.221 | 2.9265 | .00387 |
| #2 | k .02323 | .04230 | k .08884 | k 41.891 | 21.149 | .04606 | 25.167 | 2.9185 | .00394 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75242** | **.03648** | **3.1091** | k **.08445** | **3.0845** | k **-.00178** | k **.00824** | **2.7373** | k **.00553** |
| Stddev | .02784 | .00029 | .0058 | .00032 | .0124 | .00038 | .00364 | .0583 | .00070 |
| %RSD | 3.6998 | .78708 | .18781 | .37532 | .40181 | 21.181 | 44.244 | 2.1306 | 12.592 |
| #1 | .77210 | .03628 | 3.1050 | k .08467 | 3.0757 | k -.00205 | k .01081 | 2.7785 | k .00602 |
| #2 | .73274 | .03669 | 3.1133 | k .08422 | 3.0932 | k -.00151 | k .00566 | 2.6960 | k .00504 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86414** | k **.06444** | k **.29266** | k **-.00189** | k **-.00608** | k **.42618** | **.32801** | k **.03028** |
| Stddev | .00348 | .00307 | .00246 | .00060 | .01968 | .00026 | .00072 | .00002 |
| %RSD | .40306 | 4.7609 | .83944 | 31.713 | 323.50 | .06145 | .21825 | .05971 |
| #1 | .86661 | k .06661 | k .29093 | k -.00231 | k -.01999 | k .42600 | .32852 | k .03029 |
| #2 | .86168 | k .06227 | k .29440 | k -.00147 | k .00783 | k .42637 | .32751 | k .03027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5505.0** | **69344.** | **4284.8** |
| Stddev | 11.6 | 24. | 18.1 |
| %RSD | .21051 | .03434 | .42256 |
| #1 | 5496.8 | 69327. | 4272.0 |
| #2 | 5513.2 | 69360. | 4297.6 |

Sample Name: 280-42023-A-4-A  Acquired: 5/16/2013 21:58:33  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **42.046** | **.06175** | **.03077** | **1.2231** | **.00220** | **-.00745** | W **1101.5** | **.00029** |
| Stddev | .00054 | .169 | .00108 | .00088 | .0010 | .00016 | .00171 | 14.1 | .00011 |
| %RSD | 76.145 | .40121 | 1.7555 | 2.8746 | .07750 | 7.1966 | 22.910 | 1.2840 | 38.779 |
| #1 | .00108 | 41.927 | .06252 | .03139 | 1.2224 | .00209 | -.00865 | 1091.5 | .00021 |
| #2 | .00033 | 42.165 | .06099 | .03014 | 1.2238 | .00232 | -.00624 | 1111.5 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02570** | **.03113** | **.04882** | **34.380** | **15.354** | **.04612** | **21.297** | **2.8496** | **.00810** |
| Stddev | .00018 | .00039 | .00049 | .130 | .116 | .00068 | .094 | .0132 | .00033 |
| %RSD | .71404 | 1.2647 | .99885 | .37898 | .75353 | 1.4792 | .43974 | .46345 | 4.0149 |
| #1 | .02557 | .03085 | .04917 | 34.288 | 15.273 | .04564 | 21.363 | 2.8590 | .00787 |
| #2 | .02583 | .03141 | .04848 | 34.472 | 15.436 | .04660 | 21.230 | 2.8403 | .00833 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.84206** | **.04348** | **2.5960** | **.10455** | **5.2931** | **.00343** | **.02644** | **2.5351** | **.00889** |
| Stddev | .00574 | .00007 | .0106 | .00095 | .0173 | .00121 | .00202 | .0451 | .00021 |
| %RSD | .68119 | .15197 | .40796 | .90572 | .32676 | 35.286 | 7.6336 | 1.7796 | 2.4010 |
| #1 | .84611 | .04353 | 2.5885 | .10388 | 5.2809 | .00428 | .02501 | 2.5032 | .00904 |
| #2 | .83800 | .04343 | 2.6035 | .10522 | 5.3054 | .00257 | .02787 | 2.5670 | .00874 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.91956** | **.02636** | **.24637** | **.00035** | **.83468** | **.98677** | **.14897** | **.02799** |
| Stddev | .00597 | .00123 | .00238 | .00089 | .00988 | .00690 | .00060 | .00082 |
| %RSD | .64896 | 4.6836 | .96804 | 251.59 | 1.1839 | .69948 | .39983 | 2.9450 |
| #1 | .91534 | .02723 | .24805 | .00098 | .82769 | .99165 | .14939 | .02741 |
| #2 | .92378 | .02549 | .24468 | -.00028 | .84166 | .98189 | .14855 | .02857 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5377.1** | **67873.** | **4210.0** |
| Stddev | 5.1 | 248. | 20.0 |
| %RSD | .09562 | .36472 | .47570 |
| #1 | 5373.4 | 67698. | 4224.2 |
| #2 | 5380.7 | 68048. | 4195.9 |

Sample Name: 280-42023-A-5-A Acquired: 5/16/2013 22:01:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **45.014** | **.02275** | **.02876** | **.79424** | **.00219** | **-.00645** | W **1012.8** | **.00063** |
| Stddev | .00006 | .405 | .00039 | .00049 | .01132 | .00003 | .00001 | 9.5 | .00016 |
| %RSD | 9.9282 | .89989 | 1.7095 | 1.7173 | 1.4255 | 1.3472 | .12726 | .93597 | 25.354 |
| #1 | .00055 | 45.300 | .02302 | .02841 | .80224 | .00221 | -.00644 | 1019.5 | .00074 |
| #2 | .00064 | 44.727 | .02247 | .02911 | .78623 | .00217 | -.00645 | 1006.1 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02672** | **.04300** | **.07125** | **28.441** | **11.222** | **.07005** | **22.723** | **3.0673** | **.00245** |
| Stddev | .00014 | .00002 | .00029 | .316 | .085 | .00132 | .021 | .0034 | .00015 |
| %RSD | .52778 | .05721 | .41217 | 1.1111 | .75991 | 1.8875 | .09050 | .10952 | 6.1518 |
| #1 | .02682 | .04301 | .07104 | 28.665 | 11.282 | .06911 | 22.737 | 3.0697 | .00234 |
| #2 | .02662 | .04298 | .07146 | 28.218 | 11.162 | .07098 | 22.708 | 3.0650 | .00256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86343** | **.04510** | **2.3063** | **.07312** | **2.6715** | **.00343** | **.00782** | **2.2346** | **.00410** |
| Stddev | .01014 | .00038 | .0021 | .00008 | .0041 | .00027 | .00024 | .0246 | .00080 |
| %RSD | 1.1745 | .84657 | .09288 | .11429 | .15182 | 7.9433 | 3.0527 | 1.1019 | 19.592 |
| #1 | .85626 | .04537 | 2.3047 | .07306 | 2.6686 | .00324 | .00798 | 2.2520 | .00354 |
| #2 | .87060 | .04483 | 2.3078 | .07317 | 2.6743 | .00362 | .00765 | 2.2172 | .00467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99843** | **.02270** | **.17611** | **-.00242** | **.36858** | **.61252** | **.10669** | **.02894** |
| Stddev | .01088 | .00043 | .00099 | .00036 | .04731 | .00216 | .00003 | .00229 |
| %RSD | 1.0898 | 1.8749 | .56470 | 14.774 | 12.835 | .35316 | .03259 | 7.9002 |
| #1 | 1.0061 | .02240 | .17682 | -.00217 | .33512 | .61405 | .10671 | .03056 |
| #2 | .99074 | .02300 | .17541 | -.00267 | .40203 | .61099 | .10667 | .02732 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5353.1** | **68314.** | **4174.5** |
| Stddev | .2 | 61. | 62.1 |
| %RSD | .00373 | .08977 | 1.4865 |
| #1 | 5352.9 | 68357. | 4130.6 |
| #2 | 5353.2 | 68270. | 4218.4 |

Sample Name: 280-42023-A-6-B Acquired: 5/16/2013 22:04:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **47.111** | **.02285** | **.03223** | **.84133** | **.00228** | **-.00631** | W **953.58** | **.00045** |
| Stddev | .00012 | .079 | .00152 | .00008 | .00308 | .00009 | .00325 | 6.79 | .00010 |
| %RSD | 24.514 | .16863 | 6.6672 | .25865 | .36599 | 4.0977 | 51.445 | .71215 | 22.573 |
| #1 | .00056 | 47.055 | .02177 | .03228 | .84351 | .00235 | -.00861 | 948.78 | .00038 |
| #2 | .00039 | 47.167 | .02393 | .03217 | .83916 | .00222 | -.00401 | 958.38 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02412** | **.05430** | **.06698** | **31.758** | **12.356** | **.06313** | **22.995** | **3.0481** | **.00171** |
| Stddev | .00005 | .00003 | .00058 | .017 | .021 | .00227 | .049 | .0056 | .00018 |
| %RSD | .20338 | .04990 | .87175 | .05282 | .16966 | 3.6026 | .21303 | .18388 | 10.324 |
| #1 | .02408 | .05428 | .06739 | 31.746 | 12.341 | .06152 | 23.030 | 3.0521 | .00184 |
| #2 | .02415 | .05432 | .06657 | 31.770 | 12.371 | .06474 | 22.960 | 3.0442 | .00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86968** | **.04336** | **2.6514** | **.07144** | **2.6491** | **.00277** | **.01047** | **2.1419** | **.00405** |
| Stddev | .00511 | .00020 | .0003 | .00047 | .0019 | .00106 | .00128 | .0306 | .00050 |
| %RSD | .58789 | .47146 | .01066 | .65490 | .07379 | 38.443 | 12.208 | 1.4278 | 12.328 |
| #1 | .86607 | .04322 | 2.6516 | .07177 | 2.6505 | .00202 | .00957 | 2.1203 | .00440 |
| #2 | .87330 | .04351 | 2.6512 | .07111 | 2.6477 | .00352 | .01137 | 2.1636 | .00369 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0778** | **.02226** | **.21221** | **-.00188** | **.15947** | **.62255** | **.13068** | **.03195** |
| Stddev | .0016 | .00047 | .00008 | .00160 | .00768 | .00190 | .00013 | .00313 |
| %RSD | .15148 | 2.1086 | .03884 | 85.087 | 4.8168 | .30591 | .10219 | 9.7886 |
| #1 | 1.0767 | .02193 | .21215 | -.00302 | .16490 | .62390 | .13078 | .03416 |
| #2 | 1.0790 | .02260 | .21227 | -.00075 | .15404 | .62120 | .13059 | .02974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5420.1** | **68646.** | **4224.0** |
| Stddev | 11.2 | 28. | 5.0 |
| %RSD | .20647 | .04006 | .11875 |
| #1 | 5412.2 | 68626. | 4220.5 |
| #2 | 5428.1 | 68665. | 4227.6 |

Sample Name: 280-42023-A-7-A  Acquired: 5/16/2013 22:07:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **71.567** | **.04832** | **.03620** | **1.2295** | **.00397** | **-.00444** | **464.87** | **.00095** |
| Stddev | .00018 | .129 | .00076 | .00113 | .0017 | .00003 | .00026 | 5.80 | .00001 |
| %RSD | 26.424 | .18089 | 1.5665 | 3.1092 | .13539 | .64766 | 5.7536 | 1.2473 | .79183 |
| #1 | .00082 | 71.659 | .04885 | .03541 | 1.2307 | .00395 | -.00462 | 460.77 | .00096 |
| #2 | .00057 | 71.476 | .04778 | .03700 | 1.2283 | .00399 | -.00426 | 468.97 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02747** | **.04609** | **.07786** | **60.742** | **22.476** | **.05829** | **24.731** | **3.0307** | **.01065** |
| Stddev | .00023 | .00010 | .00022 | .078 | .021 | .00002 | .058 | .0045 | .00001 |
| %RSD | .82873 | .21481 | .27784 | .12769 | .09363 | .03902 | .23345 | .14974 | .08630 |
| #1 | .02731 | .04602 | .07802 | 60.797 | 22.461 | .05830 | 24.772 | 3.0339 | .01064 |
| #2 | .02763 | .04616 | .07771 | 60.687 | 22.491 | .05827 | 24.690 | 3.0275 | .01066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.77302** | **.04228** | **3.2352** | **.17952** | **4.1470** | **.00038** | **.01949** | **2.5369** | **.00609** |
| Stddev | .00316 | .00063 | .0033 | .00114 | .0016 | .00137 | .00275 | .0161 | .00098 |
| %RSD | .40825 | 1.4873 | .10235 | .63663 | .03906 | 362.71 | 14.119 | .63607 | 16.027 |
| #1 | .77079 | .04184 | 3.2375 | .18033 | 4.1459 | -.00059 | .01754 | 2.5483 | .00540 |
| #2 | .77525 | .04273 | 3.2328 | .17871 | 4.1481 | .00135 | .02144 | 2.5255 | .00678 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57559** | **.04787** | **.31877** | **-.00286** | **.65235** | **.45645** | **.21270** | **.04281** |
| Stddev | .00003 | .00139 | .00176 | .00108 | .01847 | .00172 | .00012 | .00149 |
| %RSD | .00553 | 2.8939 | .55095 | 37.797 | 2.8309 | .37672 | .05459 | 3.4697 |
| #1 | .57561 | .04885 | .32001 | -.00363 | .66541 | .45767 | .21278 | .04386 |
| #2 | .57557 | .04689 | .31752 | -.00210 | .63929 | .45524 | .21262 | .04176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5657.8** | **71272.** | **4385.2** |
| Stddev | .0 | 71. | 7.8 |
| %RSD | .00012 | .09985 | .17802 |
| #1 | 5657.8 | 71222. | 4390.8 |
| #2 | 5657.8 | 71322. | 4379.7 |

Sample Name: 280-42023-A-8-A Acquired: 5/16/2013 22:10:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **91.611** | **.05280** | **.02909** | **1.2909** | **.00504** | **-.00477** | **168.02** | **.00096** |
| Stddev | .00060 | 1.088 | .00181 | .00001 | .0140 | .00003 | .00099 | 2.09 | .00019 |
| %RSD | 90.858 | 1.1878 | 3.4255 | .01796 | 1.0836 | .59905 | 20.747 | 1.2469 | 19.668 |
| #1 | .00109 | 92.380 | .05152 | .02909 | 1.3008 | .00502 | -.00407 | 169.50 | .00110 |
| #2 | .00024 | 90.841 | .05408 | .02908 | 1.2810 | .00507 | -.00547 | 166.54 | .00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02620** | **.03783** | **.06190** | **67.394** | **27.958** | **.04836** | **27.138** | **2.7065** | **.00852** |
| Stddev | .00016 | .00030 | .00072 | .187 | .377 | .00094 | .030 | .0044 | .00001 |
| %RSD | .62039 | .80164 | 1.1552 | .27804 | 1.3490 | 1.9344 | .11068 | .16386 | .15499 |
| #1 | .02632 | .03761 | .06241 | 67.526 | 28.225 | .04902 | 27.117 | 2.7033 | .00852 |
| #2 | .02609 | .03804 | .06139 | 67.261 | 27.691 | .04770 | 27.159 | 2.7096 | .00853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61701** | **.03603** | **2.5426** | **.09356** | **2.6600** | **-.00253** | **.01374** | **2.6222** | **.00670** |
| Stddev | .00803 | .00035 | .0140 | .00261 | .0039 | .00174 | .00272 | .0791 | .00098 |
| %RSD | 1.3010 | .97270 | .55038 | 2.7859 | .14711 | 68.766 | 19.819 | 3.0153 | 14.551 |
| #1 | .62269 | .03628 | 2.5525 | .09540 | 2.6628 | -.00377 | .01181 | 2.5663 | .00601 |
| #2 | .61134 | .03579 | 2.5327 | .09172 | 2.6572 | -.00130 | .01566 | 2.6781 | .00739 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39514** | **.05883** | **.27690** | **-.00283** | **.52849** | **.15885** | **.19241** | **.04803** |
| Stddev | .00521 | .00174 | .00095 | .00047 | .00999 | .00043 | .00096 | .00028 |
| %RSD | 1.3192 | 2.9558 | .34308 | 16.559 | 1.8901 | .27273 | .49650 | .59116 |
| #1 | .39882 | .05760 | .27623 | -.00316 | .53555 | .15854 | .19174 | .04783 |
| #2 | .39145 | .06006 | .27757 | -.00250 | .52142 | .15916 | .19309 | .04823 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5880.2** | **73713.** | **4498.8** |
| Stddev | 3.7 | 114. | 72.0 |
| %RSD | .06274 | .15456 | 1.6000 |
| #1 | 5882.8 | 73794. | 4447.9 |
| #2 | 5877.6 | 73632. | 4549.7 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 22:12:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00129** | **48.319** | **.00281** | **-.00142** | **-.00028** | **-.00005** | **1.0137** | **.03610** | **-.00093** | **.00193** | **.00012** | **.00006** | **45.704** |
| Stddev | .00133 | .350 | .00050 | .00030 | .00043 | .00009 | .0030 | .00926 | .00030 | .00001 | .00019 | .00037 | .333 |
| %RSD | 103.25 | .72413 | 17.863 | 21.046 | 152.74 | 167.82 | .29576 | 25.652 | 31.882 | .53059 | 159.91 | 578.19 | .72926 |
| #1 | .00035 | 48.071 | .00245 | -.00164 | -.00059 | .00001 | 1.0115 | .04265 | -.00114 | .00192 | .00026 | -.00020 | 45.469 |
| #2 | .00223 | 48.566 | .00316 | -.00121 | .00002 | -.00012 | 1.0158 | .02955 | -.00072 | .00193 | -.00002 | .00032 | 45.940 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02207** | **-.00486** | **.01012** | **.00017** | **-.00218** | **270.73** | **.00136** | **.00531** | **-.00049** | **5.1666** | **-.00222** | **.00902** | **.02430** |
| Stddev | .04350 | .00118 | .00145 | .00006 | .00018 | 1.73 | .00028 | .00103 | .00298 | .0002 | .00224 | .00032 | .02031 |
| %RSD | 197.10 | 24.202 | 14.346 | 35.900 | 8.3933 | .63752 | 20.822 | 19.445 | 612.76 | .00345 | 100.88 | 3.5625 | 83.574 |
| #1 | .05283 | -.00403 | .00910 | .00021 | -.00231 | 269.51 | .00116 | .00605 | .00162 | 5.1667 | -.00064 | .00925 | .03866 |
| #2 | -.00869 | -.00570 | .01115 | .00012 | -.00205 | 271.95 | .00156 | .00458 | -.00259 | 5.1665 | -.00381 | .00880 | .00994 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **.00058** | **5.0316** | **.00184** | **-.00180** | **10.065** | **-.00141** | **.00258** | **-.04359** |
| Stddev | .00065 | .00010 | .0096 | .00007 | .00164 | .017 | .00050 | .00046 | .00100 |
| %RSD | 83.554 | 17.701 | .19078 | 4.0144 | 90.983 | .16762 | 35.685 | 17.782 | 2.2944 |
| #1 | .00123 | .00050 | 5.0248 | .00189 | -.00296 | 10.077 | -.00177 | .00290 | -.04430 |
| #2 | .00032 | .00065 | 5.0384 | .00179 | -.00064 | 10.053 | -.00106 | .00225 | -.04288 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5575.9** | **70284.** | **4142.6** |
| Stddev | 1.3 | 172. | 35.6 |
| %RSD | .02254 | .24468 | .85847 |
| #1 | 5576.8 | 70405. | 4167.7 |
| #2 | 5575.0 | 70162. | 4117.4 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 22:14:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50198** | **.49085** | **1.0124** | **.51120** | **.50715** | **.47608** | **-.00157** | **4.8438** | **.50056** | **.50875** | **.50284** | **.49483** | **2.2602** |
| Stddev | .00199 | .00193 | .0047 | .00110 | .00092 | .00137 | .00230 | .0077 | .00038 | .00093 | .00054 | .00171 | .0046 |
| %RSD | .39613 | .39267 | .46453 | .21452 | .18164 | .28777 | 146.51 | .15991 | .07504 | .18241 | .10727 | .34613 | .20241 |
| #1 | .50338 | .49221 | 1.0157 | .51198 | .50650 | .47511 | .00006 | 4.8493 | .50082 | .50941 | .50246 | .49604 | 2.2635 |
| #2 | .50057 | .48949 | 1.0091 | .51043 | .50780 | .47705 | -.00320 | 4.8383 | .50029 | .50809 | .50322 | .49362 | 2.2570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.567** | **1.0706** | **19.749** | **.49973** | **.49883** | **5.1130** | **.50991** | **1.0200** | **1.0058** | **-.04583** | **1.0050** | **1.0219** | **4.6313** |
| Stddev | .027 | .0034 | .002 | .00034 | .00188 | .0285 | .00178 | .0019 | .0033 | .00110 | .0022 | .0016 | .0299 |
| %RSD | .04988 | .32156 | .00849 | .06742 | .37614 | .55661 | .34843 | .19068 | .33201 | 2.4113 | .21980 | .15620 | .64498 |
| #1 | 53.586 | 1.0682 | 19.748 | .49996 | .49751 | 5.0929 | .50866 | 1.0186 | 1.0034 | -.04504 | 1.0035 | 1.0230 | 4.6524 |
| #2 | 53.548 | 1.0731 | 19.750 | .49949 | .50016 | 5.1331 | .51117 | 1.0214 | 1.0082 | -.04661 | 1.0066 | 1.0208 | 4.6101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99104** | **.51345** | **.00032** | **.49356** | **.98129** | **-.00792** | **.49382** | **.49611** | **.47884** |
| Stddev | .00370 | .00114 | .00094 | .00068 | .00596 | .01181 | .00008 | .00089 | .00443 |
| %RSD | .37299 | .22158 | 293.68 | .13801 | .60741 | 149.06 | .01573 | .17995 | .92471 |
| #1 | .98843 | .51264 | -.00034 | .49404 | .97707 | -.01628 | .49387 | .49548 | .48197 |
| #2 | .99365 | .51425 | .00098 | .49307 | .98550 | .00043 | .49376 | .49674 | .47571 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5634.3** | **71394.** | **4172.3** |
| Stddev | .0 | 70. | 9.9 |
| %RSD | .00045 | .09857 | .23624 |
| #1 | 5634.3 | 71443. | 4179.3 |
| #2 | 5634.3 | 71344. | 4165.4 |

Sample Name: CCB Acquired: 5/16/2013 22:16:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00224** | **.00342** | **-.00115** | W **-.00095** | **.00001** | **.00167** | **.00423** | **.00005** | **-.00001** | **.00011** |
| Stddev | .00041 | .00019 | .00036 | .00044 | .00004 | .00009 | .00234 | .00249 | .00005 | .00009 | .00021 |
| %RSD | 50.508 | 8.5182 | 10.457 | 38.077 | 4.5045 | 1250.3 | 140.23 | 58.857 | 95.359 | 813.12 | 183.83 |
| #1 | .00110 | .00238 | .00317 | -.00084 | -.00092 | .00007 | .00332 | .00599 | .00002 | -.00007 | -.00003 |
| #2 | .00052 | .00211 | .00367 | -.00145 | -.00098 | -.00006 | .00001 | .00247 | .00008 | .00005 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **-.00214** | **.02605** | W **-.00337** | **.00254** | **-.00008** | **-.00005** | **-.02285** | **-.00015** | **.00006** | **-.00010** |
| Stddev | .00052 | .00098 | .04549 | .00082 | .00316 | .00000 | .00005 | .01184 | .00014 | .00168 | .00140 |
| %RSD | 218.31 | 45.612 | 174.61 | 24.441 | 124.53 | 1.9685 | 86.369 | 51.807 | 97.488 | 2614.9 | 1391.9 |
| #1 | .00013 | -.00283 | -.00611 | -.00279 | .00478 | -.00008 | -.00008 | -.01448 | -.00025 | .00125 | -.00109 |
| #2 | -.00060 | -.00145 | .05821 | -.00395 | .00030 | -.00008 | -.00002 | -.03123 | -.00005 | -.00112 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04354** | **-.00037** | **.00072** | **.00641** | **.00025** | **.00001** | **.00146** | **.00000** | **-.00077** | **-.01177** | W **-.00128** |
| Stddev | .00029 | .00239 | .00499 | .03304 | .00011 | .00023 | .00146 | .00022 | .00163 | .01367 | .00003 |
| %RSD | .65644 | 642.65 | 694.04 | 515.28 | 45.223 | 1769.6 | 100.02 | 9802.9 | 211.68 | 116.08 | 2.4496 |
| #1 | -.04375 | -.00206 | -.00281 | -.01695 | .00033 | -.00015 | .00249 | .00015 | -.00192 | -.00211 | -.00126 |
| #2 | -.04334 | .00132 | .00425 | .02978 | .00017 | .00018 | .00043 | -.00015 | .00038 | -.02144 | -.00130 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | **.00112** |
| Stddev | .00002 | .00047 |
| %RSD | .89723 | 42.234 |
| #1 | .00260 | .00145 |
| #2 | .00257 | .00078 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5670.2** | **71573.** | **4141.1** |
| Stddev | 15.3 | 552. | 32.4 |
| %RSD | .27014 | .77121 | .78152 |
| #1 | 5659.3 | 71182. | 4118.2 |
| #2 | 5681.0 | 71963. | 4163.9 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 22:19:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01135** | **.10142** | **.01628** | **.10080** | **.00982** | **.00093** | **.10319** | **.19796** | **.00514** | **.01080** | **.01044** | **.01467** |
| Stddev | .00001 | .00027 | .00097 | .00084 | .00036 | .00001 | .00138 | .00124 | .00016 | .00009 | .00006 | .00027 |
| %RSD | .06130 | .26986 | 5.9794 | .82999 | 3.6806 | 1.3392 | 1.3390 | .62450 | 3.1893 | .83342 | .56544 | 1.8147 |
| #1 | .01135 | .10123 | .01559 | .10021 | .01008 | .00092 | .10417 | .19708 | .00502 | .01086 | .01040 | .01486 |
| #2 | .01134 | .10161 | .01696 | .10139 | .00957 | .00094 | .10221 | .19883 | .00525 | .01073 | .01048 | .01448 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08938** | **3.2668** | F **.00693** | **.20877** | **.01034** | **.01962** | **1.0384** | **.04155** | **3.0111** | **.00924** | **-.04318** | **.00846** |
| Stddev | .00534 | .0431 | .00192 | .00110 | .00002 | .00012 | .0037 | .00024 | .0101 | .00176 | .00193 | .00012 |
| %RSD | 5.9765 | 1.3196 | 27.708 | .52613 | .14596 | .60678 | .36020 | .57472 | .33581 | 19.046 | 4.4800 | 1.4249 |
| #1 | .09316 | 3.2363 | .00557 | .20955 | .01033 | .01954 | 1.0411 | .04138 | 3.0039 | .00800 | -.04181 | .00854 |
| #2 | .08560 | 3.2973 | .00829 | .20799 | .01035 | .01971 | 1.0358 | .04171 | 3.0182 | .01049 | -.04455 | .00837 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .01000 | | | | | | | | | |
| Range | | | -30.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.01965** | **.46485** | **.10044** | **.01063** | **.01572** | **.00970** | **.01364** | F **.03452** | **.00947** | **.02322** | **.01654** |
| Stddev | .00060 | .00484 | .00010 | .00001 | .00200 | .00017 | .00006 | .00138 | .00026 | .00009 | .00045 |
| %RSD | 3.0533 | 1.0422 | .09663 | .08656 | 12.729 | 1.8027 | .44619 | 4.0066 | 2.6938 | .38369 | 2.7443 |
| #1 | .02008 | .46142 | .10037 | .01062 | .01430 | .00982 | .01369 | .03355 | .00929 | .02316 | .01686 |
| #2 | .01923 | .46828 | .10051 | .01063 | .01713 | .00957 | .01360 | .03550 | .00965 | .02329 | .01622 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | .01500 | | | | | | | .06000 | | | |
| Range | 30.000% | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5737.8** | **72466.** | **4172.3** |
| Stddev | 2.3 | 42. | 12.6 |
| %RSD | .03976 | .05759 | .30294 |
| #1 | 5736.2 | 72437. | 4181.2 |
| #2 | 5739.4 | 72496. | 4163.4 |

Sample Name: 280-42023-A-9-A Acquired: 5/16/2013 22:21:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **122.28** | **.03505** | **.04497** | **1.5062** | **.00552** | **-.00148** | **171.76** | **.00282** |
| Stddev | .00013 | .88 | .00205 | .00013 | .0109 | .00006 | .00123 | 1.09 | .00003 |
| %RSD | 21.016 | .72367 | 5.8602 | .27965 | .72562 | 1.0427 | 83.190 | .63507 | 1.2346 |
| #1 | .00052 | 121.65 | .03360 | .04506 | 1.4985 | .00556 | -.00236 | 170.98 | .00279 |
| #2 | .00070 | 122.90 | .03651 | .04488 | 1.5139 | .00548 | -.00061 | 172.53 | .00284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04155** | **.08347** | **.14443** | **92.368** | **32.832** | **.08643** | **34.275** | **3.4248** | **.00424** |
| Stddev | .00009 | .00048 | .00054 | .415 | .133 | .00109 | .177 | .0191 | .00007 |
| %RSD | .22436 | .57163 | .37544 | .44951 | .40645 | 1.2613 | .51511 | .55757 | 1.5932 |
| #1 | .04148 | .08313 | .14405 | 92.074 | 32.738 | .08566 | 34.151 | 3.4113 | .00419 |
| #2 | .04162 | .08381 | .14482 | 92.661 | 32.927 | .08720 | 34.400 | 3.4383 | .00429 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64277** | **.06825** | **4.9632** | **.20047** | **2.3703** | **-.00375** | **.01083** | **2.3366** | **.01014** |
| Stddev | .01513 | .00039 | .0146 | .00150 | .0114 | .00003 | .00012 | .0032 | .00020 |
| %RSD | 2.3533 | .56428 | .29368 | .74787 | .48216 | .82083 | 1.1476 | .13634 | 1.9938 |
| #1 | .65346 | .06798 | 4.9529 | .19941 | 2.3622 | -.00372 | .01074 | 2.3389 | .01028 |
| #2 | .63207 | .06852 | 4.9735 | .20153 | 2.3784 | -.00377 | .01092 | 2.3344 | .00999 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40627** | **.06170** | **.51361** | **-.00435** | **.04473** | **.33285** | **.51084** | **.05523** |
| Stddev | .00271 | .00092 | .00020 | .00039 | .00680 | .00093 | .00204 | .00115 |
| %RSD | .66826 | 1.4859 | .03971 | 8.8674 | 15.206 | .27819 | .39974 | 2.0832 |
| #1 | .40435 | .06105 | .51347 | -.00408 | .04954 | .33219 | .50940 | .05442 |
| #2 | .40819 | .06234 | .51376 | -.00462 | .03992 | .33350 | .51229 | .05604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5905.1** | **73785.** | **4504.8** |
| Stddev | 6.8 | 345. | 12.3 |
| %RSD | .11456 | .46714 | .27220 |
| #1 | 5909.9 | 74029. | 4513.5 |
| #2 | 5900.3 | 73542. | 4496.2 |

Sample Name: 280-42023-A-10-A  Acquired: 5/16/2013 22:24:15  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **80.323** | **.05068** | **.06314** | **1.1224** | **.00385** | **-.00462** | W **643.77** | **.00181** |
| Stddev | .00092 | .157 | .00041 | .00018 | .0024 | .00002 | .00027 | 2.60 | .00021 |
| %RSD | 65.795 | .19569 | .80838 | .28941 | .21045 | .39337 | 5.8515 | .40407 | 11.348 |
| #1 | .00205 | 80.211 | .05097 | .06301 | 1.1240 | .00384 | -.00443 | 645.61 | .00167 |
| #2 | .00075 | 80.434 | .05039 | .06327 | 1.1207 | .00386 | -.00481 | 641.93 | .00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03335** | **.08859** | **.08360** | **59.040** | **31.178** | **.09732** | **29.361** | **3.2228** | **.00269** |
| Stddev | .00015 | .00003 | .00037 | .113 | .089 | .00320 | .023 | .0022 | .00006 |
| %RSD | .45022 | .03052 | .43694 | .19169 | .28466 | 3.2869 | .07776 | .06926 | 2.1108 |
| #1 | .03324 | .08861 | .08334 | 59.120 | 31.115 | .09958 | 29.345 | 3.2212 | .00273 |
| #2 | .03345 | .08857 | .08386 | 58.960 | 31.241 | .09506 | 29.377 | 3.2243 | .00265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1423** | **.06187** | **4.1731** | **.17652** | **3.1620** | **-.00105** | **.02012** | **2.2205** | **.00630** |
| Stddev | .0039 | .00005 | .0035 | .00034 | .0025 | .00042 | .00478 | .0125 | .00076 |
| %RSD | .34159 | .08566 | .08343 | .19259 | .07870 | 40.033 | 23.771 | .56433 | 12.130 |
| #1 | 1.1396 | .06191 | 4.1706 | .17676 | 3.1603 | -.00075 | .01674 | 2.2294 | .00684 |
| #2 | 1.1451 | .06184 | 4.1755 | .17628 | 3.1638 | -.00134 | .02351 | 2.2116 | .00576 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99670** | **.03821** | **.34965** | **-.00348** | **.51608** | **.93755** | **.24263** | **.04408** |
| Stddev | .00261 | .00104 | .00070 | .00053 | .01114 | .00013 | .00045 | .00178 |
| %RSD | .26151 | 2.7306 | .20074 | 15.230 | 2.1580 | .01364 | .18668 | 4.0273 |
| #1 | .99485 | .03895 | .35015 | -.00310 | .52396 | .93765 | .24231 | .04533 |
| #2 | .99854 | .03747 | .34916 | -.00385 | .50821 | .93746 | .24295 | .04282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5580.3** | **70724.** | **4414.9** |
| Stddev | 7.3 | 62. | .8 |
| %RSD | .13045 | .08729 | .01700 |
| #1 | 5585.5 | 70680. | 4414.4 |
| #2 | 5575.2 | 70767. | 4415.4 |

Sample Name: 280-42023-A-11-A  Acquired: 5/16/2013 22:27:13  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **53.798** | **.03909** | **.04434** | **1.0096** | **.00317** | **-.00959** | W **1166.9** | **.00025** |
| Stddev | .00061 | .415 | .00104 | .00078 | .0061 | .00001 | .00044 | 11.9 | .00017 |
| %RSD | 66.301 | .77143 | 2.6694 | 1.7614 | .60434 | .38096 | 4.6368 | 1.0176 | 70.146 |
| #1 | .00049 | 53.504 | .03983 | .04379 | 1.0053 | .00318 | -.00991 | 1158.5 | .00037 |
| #2 | .00136 | 54.091 | .03836 | .04489 | 1.0139 | .00316 | -.00928 | 1175.3 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02253** | **.03812** | **.06104** | **38.378** | **17.720** | **.06782** | **20.136** | **3.7678** | **.01300** |
| Stddev | .00012 | .00020 | .00013 | .372 | .123 | .00107 | .048 | .0127 | .00026 |
| %RSD | .55012 | .53556 | .20742 | .96842 | .69402 | 1.5777 | .23683 | .33736 | 1.9755 |
| #1 | .02262 | .03798 | .06113 | 38.115 | 17.633 | .06706 | 20.102 | 3.7588 | .01282 |
| #2 | .02244 | .03827 | .06095 | 38.640 | 17.807 | .06857 | 20.169 | 3.7768 | .01318 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.82235** | **.03541** | **2.7073** | **.19103** | **3.0788** | **.00492** | **.02989** | **1.7489** | **.00471** |
| Stddev | .00007 | .00038 | .0097 | .00114 | .0093 | .00086 | .00132 | .0050 | .00007 |
| %RSD | .00862 | 1.0698 | .35712 | .59742 | .30154 | 17.440 | 4.4163 | .28641 | 1.5618 |
| #1 | .82230 | .03514 | 2.7004 | .19183 | 3.0722 | .00552 | .02896 | 1.7454 | .00466 |
| #2 | .82240 | .03568 | 2.7141 | .19022 | 3.0853 | .00431 | .03083 | 1.7524 | .00476 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.87795** | **.03016** | **.18851** | **-.00315** | **3.4135** | **1.7189** | **.15182** | **.03633** |
| Stddev | .00818 | .00000 | .00015 | .00088 | .0074 | .0043 | .00095 | .00009 |
| %RSD | .93173 | .01107 | .07727 | 27.971 | .21687 | .24787 | .62788 | .23486 |
| #1 | .87216 | .03016 | .18840 | -.00378 | 3.4188 | 1.7159 | .15249 | .03627 |
| #2 | .88373 | .03017 | .18861 | -.00253 | 3.4083 | 1.7220 | .15114 | .03639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5483.5** | **70010.** | **4310.9** |
| Stddev | 11.9 | 43. | 23.8 |
| %RSD | .21626 | .06170 | .55133 |
| #1 | 5491.9 | 70040. | 4327.7 |
| #2 | 5475.1 | 69979. | 4294.1 |

Sample Name: 280-42023-A-12-A  Acquired: 5/16/2013 22:30:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **78.311** | **.03705** | **.02856** | **1.1095** | **.00486** | **-.00314** | **223.18** | **.00093** |
| Stddev | .00049 | .060 | .00082 | .00022 | .0014 | .00004 | .00086 | .30 | .00000 |
| %RSD | 64.073 | .07615 | 2.2107 | .77712 | .12487 | .85702 | 27.448 | .13452 | .29847 |
| #1 | .00112 | 78.353 | .03763 | .02871 | 1.1105 | .00483 | -.00375 | 223.40 | .00093 |
| #2 | .00042 | 78.269 | .03647 | .02840 | 1.1085 | .00489 | -.00253 | 222.97 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03344** | **.06019** | **.05468** | **81.558** | **27.505** | **.04711** | **32.587** | **2.9303** | **.01003** |
| Stddev | .00040 | .00038 | .00009 | .216 | .061 | .00021 | .016 | .0037 | .00001 |
| %RSD | 1.2086 | .63209 | .16560 | .26531 | .22069 | .45582 | .04949 | .12519 | .08722 |
| #1 | .03316 | .05992 | .05461 | 81.405 | 27.548 | .04727 | 32.576 | 2.9277 | .01002 |
| #2 | .03373 | .06046 | .05474 | 81.711 | 27.462 | .04696 | 32.598 | 2.9329 | .01003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86096** | **.06586** | **2.7252** | **.09428** | **1.8400** | **-.00374** | **.01966** | **2.0118** | **.00724** |
| Stddev | .00649 | .00029 | .0096 | .00132 | .0110 | .00047 | .00300 | .0261 | .00022 |
| %RSD | .75385 | .44702 | .35347 | 1.4035 | .59999 | 12.559 | 15.242 | 1.2961 | 3.0753 |
| #1 | .86555 | .06565 | 2.7184 | .09335 | 1.8322 | -.00340 | .01754 | 2.0303 | .00709 |
| #2 | .85637 | .06607 | 2.7320 | .09522 | 1.8478 | -.00407 | .02178 | 1.9934 | .00740 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56201** | **.05724** | **.27052** | **-.00346** | **-.03910** | **.23384** | **.19355** | **.04186** |
| Stddev | .00068 | .00053 | .00020 | .00001 | .01614 | .00019 | .00087 | .00284 |
| %RSD | .12106 | .92412 | .07409 | .22574 | 41.274 | .08118 | .44715 | 6.7906 |
| #1 | .56249 | .05762 | .27066 | -.00347 | -.02769 | .23371 | .19294 | .04387 |
| #2 | .56153 | .05687 | .27037 | -.00346 | -.05051 | .23398 | .19416 | .03985 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5926.6** | **74175.** | **4533.7** |
| Stddev | 14.1 | 101. | 9.8 |
| %RSD | .23830 | .13650 | .21538 |
| #1 | 5936.6 | 74103. | 4526.8 |
| #2 | 5916.6 | 74246. | 4540.6 |

Sample Name: 280-42023-A-13-A  Acquired: 5/16/2013 22:32:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **63.175** | **.03119** | **.03029** | **.97038** | **.00374** | **-.00347** | **406.09** | **.00100** |
| Stddev | .00061 | .111 | .00131 | .00046 | .00024 | .00001 | .00022 | 1.53 | .00005 |
| %RSD | 80.004 | .17592 | 4.2140 | 1.5061 | .02452 | .29077 | 6.2191 | .37693 | 5.3021 |
| #1 | .00119 | 63.097 | .03026 | .02997 | .97021 | .00375 | -.00362 | 405.00 | .00096 |
| #2 | .00033 | 63.254 | .03212 | .03061 | .97054 | .00373 | -.00331 | 407.17 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02137** | **.03038** | **.05106** | **51.668** | **23.352** | **.04320** | **21.295** | **2.7045** | **.00951** |
| Stddev | .00011 | .00017 | .00001 | .142 | .040 | .00009 | .019 | .0006 | .00033 |
| %RSD | .51065 | .55059 | .01865 | .27459 | .16945 | .21417 | .08746 | .02279 | 3.4872 |
| #1 | .02129 | .03050 | .05106 | 51.568 | 23.324 | .04313 | 21.308 | 2.7040 | .00927 |
| #2 | .02145 | .03026 | .05105 | 51.769 | 23.380 | .04326 | 21.282 | 2.7049 | .00974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67682** | **.02673** | **2.5563** | **.08740** | **2.0104** | **-.00044** | **.02007** | **2.1720** | **.00541** |
| Stddev | .01448 | .00046 | .0160 | .00283 | .0108 | .00031 | .00229 | .0101 | .00024 |
| %RSD | 2.1390 | 1.7290 | .62524 | 3.2330 | .53690 | 71.314 | 11.389 | .46322 | 4.4588 |
| #1 | .66658 | .02706 | 2.5676 | .08940 | 2.0180 | -.00066 | .02169 | 2.1649 | .00558 |
| #2 | .68706 | .02641 | 2.5450 | .08540 | 2.0028 | -.00022 | .01846 | 2.1791 | .00524 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52854** | **.04410** | **.23075** | **-.00293** | **.33538** | **.37333** | **.15373** | **.04007** |
| Stddev | .00185 | .00264 | .00181 | .00063 | .02781 | .00011 | .00108 | .00186 |
| %RSD | .35036 | 5.9878 | .78339 | 21.524 | 8.2925 | .03062 | .70512 | 4.6451 |
| #1 | .52723 | .04596 | .23203 | -.00249 | .31571 | .37324 | .15296 | .04138 |
| #2 | .52984 | .04223 | .22947 | -.00338 | .35505 | .37341 | .15450 | .03875 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5757.1** | **72186.** | **4407.8** |
| Stddev | 9.6 | 156. | 2.9 |
| %RSD | .16590 | .21599 | .06636 |
| #1 | 5750.4 | 72076. | 4405.7 |
| #2 | 5763.9 | 72297. | 4409.8 |

Sample Name: 280-42023-A-14-D Acquired: 5/16/2013 22:34:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **58.068** | **.05091** | **.02448** | **1.0698** | **.00407** | **-.00351** | **215.16** | **.00088** |
| Stddev | .00053 | .541 | .00113 | .00023 | .0095 | .00001 | .00058 | 2.26 | .00006 |
| %RSD | 78.709 | .93207 | 2.2254 | .95426 | .88447 | .20642 | 16.437 | 1.0519 | 6.2561 |
| #1 | .00030 | 58.451 | .05171 | .02431 | 1.0764 | .00408 | -.00310 | 216.76 | .00084 |
| #2 | .00105 | 57.686 | .05011 | .02464 | 1.0631 | .00406 | -.00392 | 213.56 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02137** | **.03011** | **.04817** | **61.618** | **19.615** | **.03657** | **18.924** | **2.6852** | **.03304** |
| Stddev | .00019 | .00001 | .00018 | .261 | .224 | .00230 | .002 | .0025 | .00009 |
| %RSD | .89415 | .04841 | .37601 | .42284 | 1.1437 | 6.2837 | .01227 | .09286 | .26885 |
| #1 | .02151 | .03013 | .04830 | 61.802 | 19.774 | .03819 | 18.922 | 2.6835 | .03310 |
| #2 | .02124 | .03010 | .04804 | 61.434 | 19.456 | .03494 | 18.925 | 2.6870 | .03297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64254** | **.02610** | **2.7746** | **.10770** | **12.828** | **-.00122** | **.04651** | **2.4317** | **.00693** |
| Stddev | .01245 | .00001 | .0100 | .00138 | .037 | .00080 | .00119 | .0115 | .00110 |
| %RSD | 1.9377 | .04924 | .36048 | 1.2858 | .28598 | 65.233 | 2.5544 | .47437 | 15.834 |
| #1 | .65134 | .02611 | 2.7817 | .10868 | 12.854 | -.00066 | .04735 | 2.4398 | .00616 |
| #2 | .63373 | .02610 | 2.7675 | .10672 | 12.803 | -.00179 | .04567 | 2.4235 | .00771 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46247** | **.05131** | **.25337** | **-.00401** | **.50073** | **.31503** | **.15568** | **.04700** |
| Stddev | .00446 | .00092 | .00209 | .00009 | .03098 | .00072 | .00075 | .00135 |
| %RSD | .96402 | 1.7891 | .82518 | 2.1634 | 6.1862 | .22739 | .48212 | 2.8717 |
| #1 | .46562 | .05066 | .25485 | -.00395 | .52263 | .31453 | .15621 | .04795 |
| #2 | .45932 | .05195 | .25190 | -.00407 | .47882 | .31554 | .15515 | .04604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5935.8** | **74319.** | **4517.0** |
| Stddev | 4.1 | 37. | 61.2 |
| %RSD | .06967 | .04911 | 1.3543 |
| #1 | 5932.8 | 74293. | 4473.7 |
| #2 | 5938.7 | 74345. | 4560.2 |

Sample Name: sd 42023-A-14-D@5 Acquired: 5/16/2013 22:37:19 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **12.745** | **.01501** | **.00371** | **.23398** | **.00085** | **-.00009** | **46.777** | **-.00006** |
| Stddev | .00010 | .122 | .00005 | .00064 | .00171 | .00008 | .00202 | .393 | .00021 |
| %RSD | 10.884 | .95918 | .33919 | 17.351 | .73293 | 9.7302 | 2217.6 | .84079 | 331.17 |
| #1 | .00103 | 12.831 | .01504 | .00325 | .23519 | .00080 | -.00152 | 47.055 | .00008 |
| #2 | .00089 | 12.658 | .01497 | .00416 | .23277 | .00091 | .00134 | 46.499 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00497** | **.00671** | **.01037** | **13.028** | **4.2455** | **.00647** | **4.1672** | **.58576** | **.00685** |
| Stddev | .00015 | .00018 | .00008 | .122 | .0116 | .00265 | .0042 | .00153 | .00001 |
| %RSD | 2.9611 | 2.7532 | .79384 | .93407 | .27285 | 40.972 | .10149 | .26043 | .12183 |
| #1 | .00507 | .00658 | .01043 | 13.114 | 4.2537 | .00834 | 4.1642 | .58469 | .00686 |
| #2 | .00486 | .00684 | .01031 | 12.942 | 4.2373 | .00459 | 4.1702 | .58684 | .00685 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08967** | **.00589** | **.59556** | **.02328** | **2.6813** | **-.00232** | **.01121** | **.53804** | **.00134** |
| Stddev | .00274 | .00031 | .00118 | .00076 | .0020 | .00015 | .00027 | .01804 | .00071 |
| %RSD | 3.0544 | 5.1974 | .19887 | 3.2766 | .07597 | 6.3161 | 2.4380 | 3.3527 | 52.529 |
| #1 | .08773 | .00611 | .59472 | .02382 | 2.6799 | -.00222 | .01140 | .52528 | .00184 |
| #2 | .09161 | .00567 | .59640 | .02274 | 2.6827 | -.00243 | .01102 | .55079 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10160** | **.01310** | **.05421** | **-.00105** | **.10563** | **.06681** | **.03729** | **.01426** |
| Stddev | .00031 | .00187 | .00010 | .00029 | .00192 | .00028 | .00066 | .00040 |
| %RSD | .30386 | 14.306 | .18462 | 27.383 | 1.8165 | .41939 | 1.7777 | 2.8106 |
| #1 | .10182 | .01178 | .05428 | -.00125 | .10427 | .06661 | .03776 | .01455 |
| #2 | .10138 | .01443 | .05414 | -.00085 | .10698 | .06701 | .03682 | .01398 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5796.6** | **73070.** | **4323.5** |
| Stddev | 4.9 | 144. | 28.0 |
| %RSD | .08389 | .19686 | .64868 |
| #1 | 5793.1 | 73172. | 4303.7 |
| #2 | 5800.0 | 72969. | 4343.4 |

Sample Name: 280-42023-A-14-E MS Acquired: 5/16/2013 22:39:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05020** | **149.08** | **.98493** | **.96307** | **3.0162** | **.04936** | **1.8958** | **248.29** | **.09529** |
| Stddev | .00018 | .11 | .00352 | .00065 | .0075 | .00008 | .0035 | .17 | .00012 |
| %RSD | .34921 | .07435 | .35711 | .06775 | .24710 | .15766 | .18474 | .06748 | .12385 |
| #1 | .05008 | 149.00 | .98742 | .96261 | 3.0110 | .04930 | 1.8933 | 248.18 | .09521 |
| #2 | .05032 | 149.16 | .98245 | .96354 | 3.0215 | .04941 | 1.8982 | 248.41 | .09538 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47521** | **.24372** | **.28917** | **90.900** | **88.944** | **1.0478** | **81.241** | **3.0132** | **.91808** |
| Stddev | .00045 | .00022 | .00163 | .571 | .008 | .0036 | .135 | .0038 | .00054 |
| %RSD | .09369 | .09124 | .56406 | .62808 | .00855 | .33968 | .16669 | .12642 | .05861 |
| #1 | .47489 | .24388 | .29032 | 90.497 | 88.949 | 1.0452 | 81.337 | 3.0158 | .91769 |
| #2 | .47552 | .24357 | .28801 | 91.304 | 88.938 | 1.0503 | 81.145 | 3.0105 | .91846 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.858** | **.47731** | **13.131** | **.54106** | **13.927** | **.22670** | **1.9114** | **4.5872** | **1.7197** |
| Stddev | .119 | .00025 | .024 | .00204 | .004 | .00350 | .0002 | .0204 | .0026 |
| %RSD | .22975 | .05243 | .18254 | .37668 | .03090 | 1.5443 | .01165 | .44490 | .15163 |
| #1 | 51.942 | .47749 | 13.114 | .53962 | 13.930 | .22422 | 1.9116 | 4.5728 | 1.7216 |
| #2 | 51.774 | .47714 | 13.148 | .54250 | 13.924 | .22917 | 1.9112 | 4.6017 | 1.7179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4293** | **.97401** | **2.0440** | **1.7173** | **2.5253** | **1.1340** | **.66478** | **.51733** |
| Stddev | .0013 | .00015 | .0004 | .0001 | .0143 | .0040 | .00214 | .00166 |
| %RSD | .08773 | .01546 | .02150 | .00883 | .56675 | .35737 | .32162 | .32001 |
| #1 | 1.4284 | .97412 | 2.0444 | 1.7174 | 2.5355 | 1.1369 | .66629 | .51850 |
| #2 | 1.4302 | .97391 | 2.0437 | 1.7172 | 2.5152 | 1.1311 | .66327 | .51616 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5805.3** | **73124.** | **4455.8** |
| Stddev | 10.5 | 204. | .2 |
| %RSD | .18002 | .27940 | .00396 |
| #1 | 5812.6 | 72980. | 4455.9 |
| #2 | 5797.9 | 73269. | 4455.7 |

Sample Name: 280-42023-A-14-F MSD  Acquired: 5/16/2013 22:41:55  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05006** | **135.62** | **.99961** | **.97213** | **2.9108** | **.04886** | **1.8995** | **235.85** | **.09529** |
| Stddev | .00014 | .44 | .00199 | .00013 | .0078 | .00016 | .0007 | .55 | .00011 |
| %RSD | .28351 | .32688 | .19858 | .01312 | .26850 | .31856 | .03793 | .23506 | .11656 |
| #1 | .04996 | 135.31 | .99820 | .97222 | 2.9053 | .04875 | 1.8990 | 235.46 | .09537 |
| #2 | .05016 | 135.93 | 1.0010 | .97204 | 2.9163 | .04897 | 1.9001 | 236.24 | .09522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47099** | **.23676** | **.28394** | **78.698** | **85.400** | **1.0460** | **75.852** | **2.8444** | **1.0165** |
| Stddev | .00053 | .00017 | .00004 | .437 | .163 | .0008 | .028 | .0035 | .0012 |
| %RSD | .11178 | .07019 | .01530 | .55577 | .19128 | .07471 | .03650 | .12379 | .11576 |
| #1 | .47136 | .23664 | .28397 | 78.389 | 85.285 | 1.0454 | 75.872 | 2.8419 | 1.0173 |
| #2 | .47062 | .23688 | .28391 | 79.007 | 85.516 | 1.0466 | 75.833 | 2.8469 | 1.0157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.775** | **.47406** | **11.853** | **4.6369** | **14.263** | **.45532** | **1.9278** | **4.7340** | **1.7622** |
| Stddev | .175 | .00019 | .002 | .0012 | .011 | .00077 | .0037 | .0086 | .0025 |
| %RSD | .33723 | .03928 | .01575 | .02671 | .07588 | .16961 | .18933 | .18213 | .14163 |
| #1 | 51.898 | .47419 | 11.854 | 4.6377 | 14.271 | .45478 | 1.9253 | 4.7279 | 1.7640 |
| #2 | 51.651 | .47393 | 11.851 | 4.6360 | 14.256 | .45587 | 1.9304 | 4.7401 | 1.7605 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3747** | **.96667** | **1.7586** | **1.7256** | **2.5393** | **1.1406** | **.63186** | **.50516** |
| Stddev | .0055 | .00101 | .0000 | .0005 | .0333 | .0026 | .00278 | .00011 |
| %RSD | .39713 | .10434 | .00117 | .02694 | 1.3106 | .22878 | .43947 | .02252 |
| #1 | 1.3708 | .96596 | 1.7585 | 1.7259 | 2.5628 | 1.1387 | .63382 | .50524 |
| #2 | 1.3786 | .96739 | 1.7586 | 1.7253 | 2.5158 | 1.1424 | .62990 | .50508 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5771.5** | **72427.** | **4407.0** |
| Stddev | 6.6 | 196. | 14.4 |
| %RSD | .11479 | .27062 | .32620 |
| #1 | 5766.8 | 72289. | 4417.1 |
| #2 | 5776.2 | 72566. | 4396.8 |

Sample Name: 280-42023-A-15-B Acquired: 5/16/2013 22:44:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173865 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **49.411** | **.06069** | **.02736** | **.78314** | **.00381** | **-.00529** | **183.77** | **.00091** |
| Stddev | .00001 | .001 | .00089 | .00080 | .00199 | .00001 | .00023 | .12 | .00018 |
| %RSD | .99513 | .00125 | 1.4623 | 2.9255 | .25428 | .36407 | 4.4415 | .06480 | 19.722 |
| #1 | .00101 | 49.410 | .06132 | .02792 | .78173 | .00382 | -.00545 | 183.86 | .00078 |
| #2 | .00102 | 49.411 | .06007 | .02679 | .78455 | .00380 | -.00512 | 183.69 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01988** | **.02785** | **.04581** | **67.507** | **17.842** | **.03214** | **16.400** | **2.1210** | **.03946** |
| Stddev | .00002 | .00022 | .00079 | .079 | .004 | .00227 | .013 | .0014 | .00009 |
| %RSD | .09318 | .80026 | 1.7324 | .11639 | .02070 | 7.0704 | .07755 | .06749 | .22341 |
| #1 | .01986 | .02769 | .04524 | 67.452 | 17.845 | .03375 | 16.391 | 2.1200 | .03952 |
| #2 | .01989 | .02801 | .04637 | 67.563 | 17.840 | .03054 | 16.409 | 2.1220 | .03940 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56647** | **.02379** | **2.7904** | **.09813** | **29.314** | **-.00052** | **.06675** | **2.6211** | **.00691** |
| Stddev | .00274 | .00010 | .0159 | .00000 | .011 | .00193 | .00408 | .0396 | .00099 |
| %RSD | .48331 | .41995 | .56945 | .00403 | .03692 | 370.99 | 6.1121 | 1.5094 | 14.385 |
| #1 | .56453 | .02387 | 2.7791 | .09812 | 29.307 | .00085 | .06964 | 2.5931 | .00621 |
| #2 | .56840 | .02372 | 2.8016 | .09813 | 29.322 | -.00189 | .06387 | 2.6491 | .00762 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42717** | **.04932** | **.24895** | **-.00177** | **.90946** | **.31969** | **.15393** | **.05345** |
| Stddev | .00022 | .00051 | .00033 | .00023 | .02202 | .00028 | .00018 | .00299 |
| %RSD | .05077 | 1.0334 | .13172 | 13.216 | 2.4216 | .08834 | .11907 | 5.5881 |
| #1 | .42732 | .04896 | .24872 | -.00193 | .89389 | .31989 | .15380 | .05556 |
| #2 | .42702 | .04968 | .24918 | -.00160 | .92503 | .31950 | .15405 | .05133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5950.4** | **74551.** | **4506.4** |
| Stddev | .1 | 97. | 21.3 |
| %RSD | .00204 | .13013 | .47176 |
| #1 | 5950.3 | 74619. | 4491.4 |
| #2 | 5950.5 | 74482. | 4521.4 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 22:46:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00155** | **48.111** | **.00212** | **-.00018** | **-.00025** | **-.00006** | **1.0124** | **.01507** | **-.00074** | **.00224** | **.00007** | **.00075** | **45.434** |
| Stddev | .00081 | .259 | .00334 | .00030 | .00013 | .00009 | .0110 | .00813 | .00001 | .00010 | .00006 | .00003 | .100 |
| %RSD | 52.089 | .53748 | 157.51 | 164.18 | 52.317 | 151.26 | 1.0834 | 53.936 | 1.4574 | 4.5537 | 85.900 | 4.0188 | .22050 |
| #1 | .00212 | 47.929 | -.00024 | .00003 | -.00035 | .00000 | 1.0046 | .02081 | -.00074 | .00231 | .00003 | .00077 | 45.364 |
| #2 | .00098 | 48.294 | .00448 | -.00040 | -.00016 | -.00013 | 1.0201 | .00932 | -.00075 | .00217 | .00012 | .00073 | 45.505 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03472** | **-.00202** | **.00815** | **.00035** | **-.00216** | **272.44** | **.00131** | **.00555** | **.00164** | **5.1874** | **-.00044** | **.00467** | **.02674** |
| Stddev | .02760 | .00071 | .00190 | .00000 | .00026 | .93 | .00027 | .00277 | .00045 | .0280 | .00090 | .00072 | .01221 |
| %RSD | 79.499 | 34.976 | 23.287 | 1.2019 | 11.966 | .34179 | 20.747 | 49.934 | 27.486 | .53990 | 206.35 | 15.348 | 45.679 |
| #1 | .05423 | -.00253 | .00949 | .00035 | -.00198 | 271.78 | .00150 | .00359 | .00132 | 5.1676 | .00020 | .00416 | .03537 |
| #2 | .01520 | -.00152 | .00681 | .00036 | -.00235 | 273.10 | .00111 | .00751 | .00196 | 5.2072 | -.00107 | .00517 | .01810 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **.00035** | **4.9991** | **.00241** | **-.00197** | **10.097** | **-.00119** | **.00375** | **-.03834** |
| Stddev | .00018 | .00026 | .0056 | .00001 | .00015 | .064 | .00064 | .00040 | .00022 |
| %RSD | 16.697 | 73.923 | .11177 | .48217 | 7.5090 | .63521 | 53.607 | 10.561 | .56916 |
| #1 | .00120 | .00053 | 4.9951 | .00241 | -.00187 | 10.142 | -.00074 | .00403 | -.03849 |
| #2 | .00095 | .00017 | 5.0030 | .00242 | -.00207 | 10.052 | -.00164 | .00347 | -.03819 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5623.5** | **71500.** | **4152.6** |
| Stddev | 1.7 | 408. | 24.8 |
| %RSD | .02955 | .57051 | .59626 |
| #1 | 5622.3 | 71212. | 4170.1 |
| #2 | 5624.7 | 71788. | 4135.1 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 22:48:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49824** | **.48526** | **1.0154** | **.51220** | **.50449** | **.47190** | **-.00130** | **4.7957** | **.49945** | **.50725** | **.50195** | **.49376** | **2.2650** |
| Stddev | .00112 | .00143 | .0084 | .00002 | .00077 | .00134 | .00240 | .0044 | .00032 | .00007 | .00098 | .00090 | .0015 |
| %RSD | .22508 | .29553 | .82551 | .00399 | .15329 | .28412 | 184.40 | .09106 | .06469 | .01306 | .19536 | .18200 | .06772 |
| #1 | .49745 | .48425 | 1.0095 | .51221 | .50504 | .47285 | -.00300 | 4.7926 | .49922 | .50720 | .50126 | .49312 | 2.2639 |
| #2 | .49904 | .48627 | 1.0214 | .51218 | .50394 | .47095 | .00040 | 4.7988 | .49968 | .50729 | .50265 | .49440 | 2.2661 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.470** | **1.0691** | **19.736** | **.49857** | **.49849** | **5.0941** | **.50831** | **1.0138** | **.99999** | **-.04044** | **1.0044** | **1.0174** | **4.6052** |
| Stddev | .158 | .0033 | .030 | .00074 | .00028 | .0294 | .00046 | .0046 | .00162 | .00001 | .0008 | .0062 | .0236 |
| %RSD | .29556 | .31059 | .15098 | .14884 | .05583 | .57771 | .09022 | .45397 | .16232 | .01682 | .08062 | .60943 | .51155 |
| #1 | 53.581 | 1.0715 | 19.715 | .49804 | .49829 | 5.1149 | .50864 | 1.0171 | .99884 | -.04045 | 1.0038 | 1.0130 | 4.5885 |
| #2 | 53.358 | 1.0668 | 19.757 | .49909 | .49869 | 5.0733 | .50799 | 1.0106 | 1.0011 | -.04044 | 1.0050 | 1.0218 | 4.6218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98915** | **.50890** | **.00097** | **.49231** | **.97660** | **-.03577** | **.49374** | **.49544** | **.47741** |
| Stddev | .00024 | .00138 | .00155 | .00205 | .00131 | .03034 | .00089 | .00281 | .00155 |
| %RSD | .02395 | .27131 | 160.11 | .41570 | .13388 | 84.806 | .18067 | .56782 | .32409 |
| #1 | .98899 | .50988 | .00207 | .49087 | .97752 | -.01432 | .49310 | .49345 | .47850 |
| #2 | .98932 | .50793 | -.00013 | .49376 | .97567 | -.05723 | .49437 | .49743 | .47631 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5643.1** | **71480.** | **4190.5** |
| Stddev | 7.6 | 101. | 19.9 |
| %RSD | .13547 | .14097 | .47425 |
| #1 | 5648.5 | 71551. | 4176.5 |
| #2 | 5637.7 | 71409. | 4204.6 |

Sample Name: CCB Acquired: 5/16/2013 22:51:03 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00132** | **-.00042** | **.00365** | **-.00056** | W **-.00085** | **-.00006** | **-.00142** | **.00090** | **-.00005** | **.00033** | **.00004** |
| Stddev | .00034 | .00005 | .00268 | .00011 | .00020 | .00003 | .00237 | .00057 | .00008 | .00027 | .00002 |
| %RSD | 25.828 | 11.436 | 73.448 | 20.188 | 23.832 | 48.734 | 166.36 | 63.332 | 163.77 | 79.986 | 46.015 |
| #1 | .00108 | -.00046 | .00554 | -.00048 | -.00070 | -.00008 | .00025 | .00130 | .00001 | .00052 | .00003 |
| #2 | .00156 | -.00039 | .00175 | -.00064 | -.00099 | -.00004 | -.00310 | .00050 | -.00011 | .00014 | .00006 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | .00058 | | | | | | |
| Low Limit | -.00093 | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **-.00347** | **.03704** | W **-.00378** | **-.00012** | **-.00004** | **-.00025** | **-.03432** | **-.00015** | **-.00047** | **.00142** |
| Stddev | .00048 | .00326 | .00959 | .00190 | .00184 | .00001 | .00033 | .01156 | .00000 | .00345 | .00119 |
| %RSD | 124.16 | 94.048 | 25.888 | 50.223 | 1573.4 | 17.696 | 129.61 | 33.689 | .07792 | 732.46 | 84.098 |
| #1 | -.00005 | -.00578 | .03026 | -.00244 | -.00142 | -.00005 | -.00002 | -.04250 | -.00015 | -.00291 | .00226 |
| #2 | -.00073 | -.00116 | .04382 | -.00512 | .00119 | -.00004 | -.00048 | -.02615 | -.00015 | .00197 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04289** | **-.00079** | **.00033** | **-.00423** | **.00024** | **-.00003** | **-.00170** | **-.00004** | **-.00007** | **-.03040** | W **-.00131** |
| Stddev | .00364 | .00257 | .00170 | .01320 | .00061 | .00005 | .00107 | .00026 | .00044 | .03079 | .00044 |
| %RSD | 8.4761 | 325.40 | 521.03 | 312.35 | 255.00 | 162.48 | 63.080 | 609.94 | 591.07 | 101.29 | 33.387 |
| #1 | -.04032 | .00103 | -.00088 | .00511 | -.00019 | -.00007 | -.00246 | -.00022 | -.00038 | -.05217 | -.00100 |
| #2 | -.04546 | -.00261 | .00153 | -.01356 | .00067 | .00000 | -.00094 | .00014 | .00024 | -.00863 | -.00162 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00299** | W **.00323** |
| Stddev | .00008 | .00103 |
| %RSD | 2.7721 | 31.925 |
| #1 | .00305 | .00396 |
| #2 | .00293 | .00250 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5660.4** | **71542.** | **4126.5** |
| Stddev | 1.0 | 222. | 22.1 |
| %RSD | .01849 | .31025 | .53517 |
| #1 | 5659.7 | 71699. | 4110.9 |
| #2 | 5661.2 | 71385. | 4142.1 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 22:53:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01089** | **.10199** | W **.01886** | **.10421** | **.00957** | **.00097** | **.10753** | **.19936** | **.00527** | **.01081** | **.01062** |
| Stddev | .00021 | .00006 | .00119 | .00068 | .00012 | .00012 | .00041 | .00131 | .00008 | .00022 | .00000 |
| %RSD | 1.9078 | .05693 | 6.3250 | .64903 | 1.2756 | 12.153 | .37908 | .65802 | 1.5264 | 2.0484 | .04701 |
| #1 | .01074 | .10195 | .01970 | .10469 | .00948 | .00106 | .10725 | .19844 | .00522 | .01065 | .01061 |
| #2 | .01103 | .10203 | .01801 | .10373 | .00965 | .00089 | .10782 | .20029 | .00533 | .01097 | .01062 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01423** | **.09111** | **3.3788** | **.00882** | **.21205** | **.01036** | **.01981** | **1.0343** | **.04257** | **3.0683** | **.00989** |
| Stddev | .00021 | .00095 | .0283 | .00025 | .00534 | .00005 | .00020 | .0023 | .00016 | .0005 | .00237 |
| %RSD | 1.4805 | 1.0382 | .83804 | 2.8319 | 2.5167 | .51843 | 1.0216 | .22625 | .36512 | .01711 | 23.957 |
| #1 | .01438 | .09044 | 3.3989 | .00899 | .21582 | .01040 | .01966 | 1.0326 | .04268 | 3.0686 | .00822 |
| #2 | .01408 | .09178 | 3.3588 | .00864 | .20828 | .01033 | .01995 | 1.0360 | .04246 | 3.0679 | .01157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04242** | **.00835** | **.01487** | **.46993** | **.10276** | **.01072** | **.01604** | **.00995** | **.01427** | W **.04510** | **.00862** |
| Stddev | .00143 | .00054 | .00163 | .00314 | .00060 | .00006 | .00146 | .00024 | .00034 | .03300 | .00057 |
| %RSD | 3.3620 | 6.4274 | 10.940 | .66869 | .58704 | .52018 | 9.0795 | 2.4023 | 2.3782 | 73.174 | 6.6425 |
| #1 | -.04142 | .00797 | .01602 | .47215 | .10233 | .01076 | .01501 | .01012 | .01403 | .06844 | .00903 |
| #2 | -.04343 | .00873 | .01372 | .46771 | .10318 | .01068 | .01707 | .00978 | .01451 | .02177 | .00822 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02274** | F **.01979** |
| Stddev | .00065 | .00230 |
| %RSD | 2.8411 | 11.626 |
| #1 | .02320 | .01817 |
| #2 | .02228 | .02142 |
| Check ? | Chk Pass | Chk Fail |
| Value | | .01500 |
| Range | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5704.6** | **72254.** | **4169.9** |
| Stddev | 9.5 | 125. | 9.9 |
| %RSD | .16720 | .17242 | .23825 |
| #1 | 5697.8 | 72166. | 4176.9 |
| #2 | 5711.3 | 72342. | 4162.8 |

Sample Name: 280-42019-B-12-A  Acquired: 5/16/2013 22:56:00  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **25.522** | **.03423** | **.01559** | **1.4185** | **.00157** | **-.00313** | **133.92** | **.00039** |
| Stddev | .00031 | .126 | .00052 | .00031 | .0105 | .00011 | .00065 | .97 | .00007 |
| %RSD | 78.088 | .49337 | 1.5308 | 2.0038 | .74116 | 7.1149 | 20.666 | .72352 | 17.050 |
| #1 | .00062 | 25.433 | .03386 | .01581 | 1.4111 | .00149 | -.00359 | 133.23 | .00034 |
| #2 | .00018 | 25.611 | .03460 | .01537 | 1.4259 | .00165 | -.00267 | 134.60 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01750** | **.01688** | **.02101** | **39.581** | **8.1687** | **.01652** | **10.911** | **1.0027** | **.00403** |
| Stddev | .00037 | .00036 | .00035 | .258 | .0399 | .00057 | .015 | .0005 | .00037 |
| %RSD | 2.1073 | 2.1055 | 1.6699 | .65185 | .48881 | 3.4628 | .13959 | .05045 | 9.2422 |
| #1 | .01777 | .01713 | .02076 | 39.398 | 8.1405 | .01612 | 10.921 | 1.0030 | .00429 |
| #2 | .01724 | .01662 | .02126 | 39.763 | 8.1970 | .01693 | 10.900 | 1.0023 | .00376 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40382** | **.01506** | **1.1275** | **.03269** | **.58065** | **-.00130** | **.02618** | **1.9831** | **.00190** |
| Stddev | .01029 | .00010 | .0034 | .00043 | .00207 | .00048 | .00099 | .0314 | .00066 |
| %RSD | 2.5476 | .65635 | .30281 | 1.3012 | .35587 | 37.424 | 3.7824 | 1.5857 | 34.839 |
| #1 | .41110 | .01499 | 1.1251 | .03299 | .57919 | -.00164 | .02548 | 2.0053 | .00237 |
| #2 | .39655 | .01513 | 1.1300 | .03239 | .58211 | -.00095 | .02688 | 1.9609 | .00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21498** | **.02690** | **.21037** | **-.00214** | **-.02013** | **.24264** | **.11949** | **.01820** |
| Stddev | .00135 | .00004 | .00048 | .00128 | .01516 | .00024 | .00019 | .00093 |
| %RSD | .62895 | .13833 | .22857 | 59.845 | 75.306 | .10052 | .15568 | 5.0927 |
| #1 | .21402 | .02693 | .21003 | -.00304 | -.00941 | .24282 | .11936 | .01755 |
| #2 | .21593 | .02688 | .21071 | -.00123 | -.03085 | .24247 | .11962 | .01886 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5691.0** | **71550.** | **4244.4** |
| Stddev | 1.4 | 55. | 28.2 |
| %RSD | .02524 | .07710 | .66391 |
| #1 | 5690.0 | 71511. | 4264.3 |
| #2 | 5692.0 | 71589. | 4224.5 |

Sample Name: sd 42019-B-12-A@5 Acquired: 5/16/2013 22:58:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **5.5231** | **.00926** | **.00240** | **.29809** | **.00036** | **-.00111** | **28.188** | **.00007** |
| Stddev | .00068 | .0162 | .00257 | .00057 | .00141 | .00002 | .00362 | .104 | .00009 |
| %RSD | 65.970 | .29375 | 27.784 | 23.633 | .47416 | 4.8739 | 325.10 | .36948 | 114.72 |
| #1 | .00055 | 5.5116 | .01108 | .00280 | .29909 | .00038 | .00145 | 28.262 | .00014 |
| #2 | .00150 | 5.5345 | .00744 | .00200 | .29710 | .00035 | -.00368 | 28.114 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00406** | **.00392** | **.00435** | **8.4771** | **1.7260** | **.00084** | **2.3241** | **.21148** | **.00061** |
| Stddev | .00016 | .00017 | .00030 | .0211 | .0252 | .00362 | .0022 | .00033 | .00012 |
| %RSD | 4.0112 | 4.2615 | 6.8215 | .24898 | 1.4622 | 428.97 | .09632 | .15471 | 20.472 |
| #1 | .00394 | .00380 | .00456 | 8.4920 | 1.7081 | .00340 | 2.3257 | .21125 | .00052 |
| #2 | .00417 | .00403 | .00414 | 8.4622 | 1.7438 | -.00172 | 2.3226 | .21171 | .00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01496** | **.00309** | **.23439** | **.00956** | **.08408** | **-.00213** | **.00543** | **.44476** | **.00068** |
| Stddev | .00093 | .00006 | .00068 | .00030 | .00257 | .00098 | .00132 | .00825 | .00001 |
| %RSD | 6.1936 | 1.8051 | .28953 | 3.1475 | 3.0526 | 46.031 | 24.273 | 1.8544 | 1.3302 |
| #1 | .01561 | .00305 | .23487 | .00977 | .08226 | -.00282 | .00450 | .45059 | .00069 |
| #2 | .01430 | .00313 | .23391 | .00935 | .08589 | -.00144 | .00636 | .43893 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04552** | **.00637** | **.04450** | **-.00232** | **-.03875** | **.04971** | **.02874** | **.00401** |
| Stddev | .00027 | .00035 | .00131 | .00023 | .02394 | .00044 | .00008 | .00023 |
| %RSD | .59671 | 5.4449 | 2.9418 | 10.039 | 61.779 | .88618 | .27516 | 5.7879 |
| #1 | .04532 | .00662 | .04542 | -.00248 | -.02183 | .04940 | .02868 | .00384 |
| #2 | .04571 | .00613 | .04357 | -.00215 | -.05568 | .05002 | .02879 | .00417 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5680.9** | **71754.** | **4167.2** |
| Stddev | 3.8 | 260. | 22.6 |
| %RSD | .06709 | .36288 | .54285 |
| #1 | 5678.2 | 71570. | 4151.2 |
| #2 | 5683.6 | 71938. | 4183.2 |

Sample Name: 280-42019-B-12-B MS Acquired: 5/16/2013 23:00:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05265** | **58.198** | **1.0114** | **1.0185** | **3.5351** | **.04753** | **2.0068** | **160.12** | **.10003** |
| Stddev | .00075 | .548 | .0020 | .0013 | .0369 | .00069 | .0018 | 1.38 | .00002 |
| %RSD | 1.4260 | .94171 | .20189 | .12418 | 1.0441 | 1.4593 | .09092 | .86233 | .01532 |
| #1 | .05212 | 58.586 | 1.0129 | 1.0176 | 3.5613 | .04802 | 2.0080 | 161.10 | .10002 |
| #2 | .05318 | 57.811 | 1.0100 | 1.0194 | 3.5090 | .04704 | 2.0055 | 159.14 | .10004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49088** | **.22376** | **.26225** | **38.418** | **69.088** | **1.0667** | **63.263** | **1.4290** | **.95071** |
| Stddev | .00075 | .00032 | .00112 | .389 | .575 | .0117 | .026 | .0006 | .00026 |
| %RSD | .15285 | .14149 | .42737 | 1.0118 | .83173 | 1.0960 | .04171 | .04505 | .02752 |
| #1 | .49141 | .22354 | .26146 | 38.693 | 69.495 | 1.0749 | 63.244 | 1.4286 | .95090 |
| #2 | .49035 | .22398 | .26304 | 38.143 | 68.682 | 1.0584 | 63.282 | 1.4295 | .95053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.188** | **.49218** | **11.084** | **.50201** | **.64449** | **.38686** | **1.9903** | **4.1060** | **1.8656** |
| Stddev | .398 | .00040 | .020 | .00106 | .00014 | .00092 | .0010 | .0232 | .0014 |
| %RSD | .73501 | .08151 | .17745 | .21105 | .02219 | .23835 | .05177 | .56513 | .07593 |
| #1 | 54.470 | .49246 | 11.098 | .50276 | .64439 | .38751 | 1.9895 | 4.0896 | 1.8646 |
| #2 | 53.907 | .49189 | 11.070 | .50126 | .64460 | .38620 | 1.9910 | 4.1224 | 1.8666 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1941** | **1.0040** | **1.5225** | **1.8651** | **1.9797** | **.69872** | **.56364** | **.46702** |
| Stddev | .0098 | .0011 | .0024 | .0001 | .0035 | .00016 | .00089 | .00084 |
| %RSD | .82128 | .11187 | .16088 | .00437 | .17849 | .02225 | .15789 | .18087 |
| #1 | 1.2011 | 1.0048 | 1.5208 | 1.8651 | 1.9772 | .69861 | .56301 | .46643 |
| #2 | 1.1872 | 1.0032 | 1.5243 | 1.8652 | 1.9822 | .69883 | .56427 | .46762 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5559.2** | **69901.** | **4207.6** |
| Stddev | 5.5 | 302. | 49.9 |
| %RSD | .09961 | .43141 | 1.1862 |
| #1 | 5555.3 | 69688. | 4172.3 |
| #2 | 5563.2 | 70114. | 4242.9 |

Sample Name: 280-42019-B-12-C MSD Acquired: 5/16/2013 23:02:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05171** | **49.059** | **1.0028** | **1.0046** | **3.3608** | **.04695** | **1.9834** | **149.02** | **.09933** |
| Stddev | .00031 | .265 | .0046 | .0014 | .0254 | .00040 | .0034 | 1.42 | .00022 |
| %RSD | .60634 | .53945 | .45790 | .13625 | .75609 | .84143 | .17092 | .95338 | .22606 |
| #1 | .05149 | 49.246 | .99958 | 1.0055 | 3.3788 | .04722 | 1.9810 | 150.03 | .09949 |
| #2 | .05193 | 48.872 | 1.0061 | 1.0036 | 3.3428 | .04667 | 1.9858 | 148.02 | .09917 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48570** | **.21598** | **.25951** | **36.423** | **65.624** | **1.0470** | **59.380** | **1.3292** | **.94033** |
| Stddev | .00055 | .00007 | .00070 | .370 | .576 | .0138 | .053 | .0007 | .00063 |
| %RSD | .11286 | .03217 | .27076 | 1.0167 | .87717 | 1.3167 | .08867 | .05590 | .06696 |
| #1 | .48609 | .21602 | .26001 | 36.685 | 66.031 | 1.0568 | 59.418 | 1.3287 | .93988 |
| #2 | .48531 | .21593 | .25902 | 36.161 | 65.217 | 1.0373 | 59.343 | 1.3297 | .94077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.058** | **.48644** | **10.763** | **.49749** | **.54603** | **.39711** | **1.9603** | **3.8010** | **1.8448** |
| Stddev | 1.081 | .00008 | .013 | .00246 | .00070 | .00120 | .0070 | .0031 | .0003 |
| %RSD | 1.9989 | .01683 | .12198 | .49475 | .12853 | .30257 | .35707 | .08208 | .01354 |
| #1 | 54.822 | .48639 | 10.772 | .49923 | .54554 | .39796 | 1.9554 | 3.8032 | 1.8446 |
| #2 | 53.294 | .48650 | 10.753 | .49575 | .54653 | .39626 | 1.9653 | 3.7988 | 1.8449 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1579** | **.98777** | **1.4066** | **1.8396** | **1.9436** | **.65268** | **.54787** | **.46526** |
| Stddev | .0091 | .00072 | .0005 | .0031 | .0203 | .00031 | .00074 | .00250 |
| %RSD | .78887 | .07271 | .03326 | .16987 | 1.0429 | .04753 | .13459 | .53801 |
| #1 | 1.1643 | .98726 | 1.4069 | 1.8418 | 1.9580 | .65246 | .54839 | .46703 |
| #2 | 1.1514 | .98828 | 1.4062 | 1.8374 | 1.9293 | .65290 | .54735 | .46349 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5560.8** | **70169.** | **4196.0** |
| Stddev | 6.4 | 137. | 40.3 |
| %RSD | .11575 | .19567 | .96150 |
| #1 | 5556.2 | 70072. | 4167.5 |
| #2 | 5565.3 | 70266. | 4224.5 |

Sample Name: 280-42019-B-13-A Acquired: 5/16/2013 23:05:11 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **25.844** | **.02215** | **.01619** | **.53245** | **.00140** | **-.00272** | **142.12** | **.00032** |
| Stddev | .00055 | .160 | .00389 | .00043 | .00388 | .00003 | .00179 | 1.17 | .00001 |
| %RSD | 186.51 | .62058 | 17.549 | 2.6572 | .72827 | 2.3456 | 65.713 | .82295 | 4.5271 |
| #1 | -.00009 | 25.957 | .02490 | .01650 | .53520 | .00137 | -.00146 | 142.95 | .00033 |
| #2 | .00069 | 25.731 | .01940 | .01589 | .52971 | .00142 | -.00399 | 141.30 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00939** | **.01422** | **.01552** | **24.813** | **8.8730** | **.01370** | **9.0865** | **1.2687** | **.00185** |
| Stddev | .00013 | .00000 | .00041 | .216 | .0789 | .00036 | .0028 | .0004 | .00016 |
| %RSD | 1.4069 | .03005 | 2.6315 | .86955 | .88952 | 2.6430 | .03060 | .03162 | 8.8171 |
| #1 | .00949 | .01422 | .01581 | 24.965 | 8.9288 | .01344 | 9.0884 | 1.2684 | .00173 |
| #2 | .00930 | .01421 | .01523 | 24.660 | 8.8172 | .01396 | 9.0845 | 1.2689 | .00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31380** | **.01189** | **.96064** | **.02316** | **.38728** | **-.00327** | **.00591** | **1.5981** | **.00118** |
| Stddev | .00119 | .00019 | .00136 | .00079 | .00282 | .00074 | .00187 | .0237 | .00004 |
| %RSD | .37921 | 1.6077 | .14134 | 3.4285 | .72844 | 22.714 | 31.656 | 1.4855 | 3.5858 |
| #1 | .31296 | .01203 | .95968 | .02372 | .38927 | -.00380 | .00459 | 1.6149 | .00115 |
| #2 | .31464 | .01176 | .96160 | .02260 | .38528 | -.00275 | .00724 | 1.5813 | .00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24043** | **.02445** | **.15559** | **-.00189** | W **-.06467** | **.09952** | **.06058** | **.01567** |
| Stddev | .00173 | .00097 | .00109 | .00190 | .00347 | .00013 | .00028 | .00049 |
| %RSD | .72059 | 3.9636 | .69815 | 100.31 | 5.3732 | .13028 | .46771 | 3.1403 |
| #1 | .24165 | .02514 | .15636 | -.00055 | -.06221 | .09961 | .06078 | .01532 |
| #2 | .23920 | .02376 | .15482 | -.00324 | -.06713 | .09942 | .06038 | .01602 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5732.5** | **71961.** | **4334.0** |
| Stddev | 2.0 | 87. | 43.1 |
| %RSD | .03538 | .12126 | .99437 |
| #1 | 5734.0 | 71899. | 4303.5 |
| #2 | 5731.1 | 72023. | 4364.4 |

Sample Name: 280-42019-B-14-A  Acquired: 5/16/2013 23:07:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **42.106** | **.03148** | **.02311** | **1.0284** | **.00269** | **-.00466** | **154.92** | **.00046** |
| Stddev | .00007 | .437 | .00443 | .00009 | .0121 | .00004 | .00030 | 1.57 | .00014 |
| %RSD | 6.2887 | 1.0387 | 14.059 | .39034 | 1.1762 | 1.6176 | 6.4275 | 1.0127 | 31.117 |
| #1 | .00109 | 41.797 | .03461 | .02305 | 1.0198 | .00266 | -.00488 | 153.81 | .00036 |
| #2 | .00099 | 42.416 | .02835 | .02318 | 1.0369 | .00272 | -.00445 | 156.03 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01540** | **.01901** | **.02627** | **45.894** | **12.264** | **.02681** | **12.273** | **1.6066** | **.01609** |
| Stddev | .00001 | .00021 | .00015 | .089 | .079 | .00083 | .041 | .0050 | .00013 |
| %RSD | .07822 | 1.1063 | .56088 | .19490 | .64164 | 3.1082 | .33723 | .31222 | .81676 |
| #1 | .01539 | .01886 | .02637 | 45.957 | 12.208 | .02622 | 12.302 | 1.6101 | .01618 |
| #2 | .01541 | .01916 | .02617 | 45.830 | 12.319 | .02739 | 12.244 | 1.6030 | .01600 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.69931** | **.01900** | **1.5550** | **.04237** | **1.3415** | **-.00028** | **.01115** | **1.8192** | **.00284** |
| Stddev | .00306 | .00010 | .0004 | .00268 | .0014 | .00065 | .00165 | .0218 | .00083 |
| %RSD | .43818 | .53235 | .02572 | 6.3197 | .10187 | 230.65 | 14.771 | 1.1985 | 29.365 |
| #1 | .69714 | .01893 | 1.5553 | .04426 | 1.3425 | .00018 | .01231 | 1.8038 | .00225 |
| #2 | .70148 | .01907 | 1.5547 | .04048 | 1.3405 | -.00075 | .00998 | 1.8346 | .00343 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37888** | **.03449** | **.19485** | **-.00205** | W **-.05810** | **.15648** | **.09291** | **.02206** |
| Stddev | .00392 | .00021 | .00046 | .00016 | .02457 | .00003 | .00034 | .00186 |
| %RSD | 1.0336 | .61707 | .23608 | 7.8545 | 42.293 | .01691 | .37066 | 8.4541 |
| #1 | .37611 | .03434 | .19452 | -.00194 | -.04072 | .15650 | .09315 | .02074 |
| #2 | .38165 | .03464 | .19517 | -.00216 | -.07547 | .15646 | .09266 | .02338 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5754.0** | **72187.** | **4342.8** |
| Stddev | 12.7 | 363. | 22.9 |
| %RSD | .22127 | .50260 | .52631 |
| #1 | 5744.9 | 71930. | 4359.0 |
| #2 | 5763.0 | 72443. | 4326.7 |

Sample Name: 280-42019-B-15-A Acquired: 5/16/2013 23:09:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **59.017** | **.01999** | **.02048** | **.78852** | **.00275** | **-.00099** | **39.834** | **.00095** |
| Stddev | .00003 | .056 | .00290 | .00076 | .00046 | .00004 | .00293 | .100 | .00005 |
| %RSD | 2.5885 | .09564 | 14.498 | 3.7294 | .05776 | 1.3588 | 294.37 | .25208 | 5.0935 |
| #1 | .00096 | 59.057 | .01794 | .01994 | .78884 | .00273 | -.00307 | 39.905 | .00099 |
| #2 | .00100 | 58.977 | .02203 | .02102 | .78820 | .00278 | .00108 | 39.763 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02696** | **.04109** | **.04065** | **52.794** | **15.194** | **.03677** | **14.263** | **2.4743** | **.00220** |
| Stddev | .00012 | .00011 | .00023 | .248 | .016 | .00215 | .002 | .0008 | .00015 |
| %RSD | .44357 | .25888 | .57035 | .46964 | .10248 | 5.8596 | .01380 | .03425 | 6.8845 |
| #1 | .02687 | .04102 | .04049 | 52.619 | 15.205 | .03830 | 14.262 | 2.4749 | .00209 |
| #2 | .02704 | .04117 | .04081 | 52.970 | 15.183 | .03525 | 14.265 | 2.4737 | .00231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42813** | **.03491** | **1.7815** | **.05370** | **.50396** | **-.00406** | **.00358** | **3.0358** | **.00335** |
| Stddev | .00544 | .00004 | .0065 | .00078 | .00096 | .00119 | .00371 | .0034 | .00036 |
| %RSD | 1.2695 | .12118 | .36462 | 1.4565 | .19121 | 29.252 | 103.72 | .11301 | 10.787 |
| #1 | .43197 | .03488 | 1.7770 | .05314 | .50464 | -.00490 | .00095 | 3.0383 | .00309 |
| #2 | .42428 | .03494 | 1.7861 | .05425 | .50328 | -.00322 | .00620 | 3.0334 | .00360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12624** | **.04157** | **.59811** | **-.00392** | F **-.10182** | **.11841** | **.15216** | **.03867** |
| Stddev | .00040 | .00003 | .00001 | .00174 | .00282 | .00132 | .00019 | .00259 |
| %RSD | .31923 | .08008 | .00132 | 44.412 | 2.7694 | 1.1171 | .12206 | 6.6881 |
| #1 | .12653 | .04160 | .59812 | -.00269 | -.10382 | .11934 | .15203 | .04050 |
| #2 | .12596 | .04155 | .59811 | -.00515 | -.09983 | .11747 | .15230 | .03684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5898.0** | **74071.** | **4404.3** |
| Stddev | 3.6 | 6. | 11.0 |
| %RSD | .06132 | .00866 | .24898 |
| #1 | 5900.5 | 74075. | 4396.6 |
| #2 | 5895.4 | 74066. | 4412.1 |

Sample Name: 280-42019-B-16-A Acquired: 5/16/2013 23:12:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **22.146** | **.02288** | **.01240** | **.87478** | **.00129** | **-.00329** | **133.76** | **.00025** |
| Stddev | .00017 | .204 | .00015 | .00016 | .00739 | .00006 | .00110 | 1.40 | .00005 |
| %RSD | 29.830 | .91958 | .67600 | 1.2636 | .84531 | 4.5586 | 33.472 | 1.0467 | 20.317 |
| #1 | .00045 | 22.002 | .02277 | .01251 | .86955 | .00133 | -.00407 | 132.77 | .00022 |
| #2 | .00069 | 22.290 | .02299 | .01229 | .88000 | .00125 | -.00251 | 134.75 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00980** | **.01429** | **.01484** | **25.730** | **7.3078** | **.01350** | **10.176** | **1.1399** | **.00064** |
| Stddev | .00038 | .00036 | .00015 | .257 | .1127 | .00214 | .008 | .0011 | .00027 |
| %RSD | 3.8782 | 2.5279 | 1.0042 | 1.0007 | 1.5423 | 15.818 | .07734 | .09555 | 41.560 |
| #1 | .01007 | .01455 | .01473 | 25.548 | 7.3875 | .01199 | 10.182 | 1.1406 | .00083 |
| #2 | .00953 | .01404 | .01495 | 25.912 | 7.2281 | .01501 | 10.171 | 1.1391 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33476** | **.01295** | **.97240** | **.03011** | **.44670** | **-.00186** | **.00318** | **1.4413** | **.00084** |
| Stddev | .00804 | .00006 | .00112 | .00058 | .00568 | .00097 | .00419 | .0065 | .00049 |
| %RSD | 2.4026 | .45024 | .11514 | 1.9328 | 1.2711 | 51.908 | 131.82 | .45348 | 57.847 |
| #1 | .34044 | .01299 | .97161 | .03052 | .45071 | -.00255 | .00615 | 1.4459 | .00118 |
| #2 | .32907 | .01291 | .97319 | .02970 | .44268 | -.00118 | .00022 | 1.4367 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20196** | **.02229** | **.17097** | **-.00246** | **-.03815** | **.10814** | **.09491** | **.01602** |
| Stddev | .00160 | .00219 | .00185 | .00077 | .03024 | .00030 | .00085 | .00085 |
| %RSD | .79054 | 9.8324 | 1.0814 | 31.306 | 79.259 | .27754 | .89221 | 5.3244 |
| #1 | .20083 | .02074 | .17228 | -.00192 | -.05953 | .10793 | .09431 | .01662 |
| #2 | .20309 | .02384 | .16966 | -.00301 | -.01677 | .10836 | .09551 | .01541 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5733.6** | **72305.** | **4285.4** |
| Stddev | 8.1 | 34. | 49.7 |
| %RSD | .14168 | .04703 | 1.1597 |
| #1 | 5739.4 | 72329. | 4320.5 |
| #2 | 5727.9 | 72281. | 4250.3 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 23:14:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **47.818** | **.00165** | **-.00107** | **-.00052** | **-.00003** | **1.0146** | **.00020** | **-.00067** | **.00206** | **.00021** | **-.00016** | **45.753** |
| Stddev | .00025 | .191 | .00199 | .00055 | .00027 | .00010 | .0055 | .00202 | .00004 | .00004 | .00004 | .00012 | .338 |
| %RSD | 28.341 | .39904 | 120.81 | 51.141 | 52.465 | 289.26 | .53720 | 1019.8 | 6.5959 | 2.1586 | 17.205 | 73.988 | .73921 |
| #1 | .00108 | 47.953 | .00306 | -.00068 | -.00071 | -.00010 | 1.0107 | -.00123 | -.00064 | .00203 | .00019 | -.00024 | 45.993 |
| #2 | .00072 | 47.683 | .00024 | -.00145 | -.00032 | .00003 | 1.0184 | .00162 | -.00070 | .00209 | .00024 | -.00007 | 45.514 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04058** | **-.00395** | **.00683** | **-.00004** | **-.00181** | **272.13** | **.00127** | **.00490** | **-.00012** | **5.1672** | **-.00127** | **.00775** | **.01356** |
| Stddev | .04644 | .00090 | .00209 | .00005 | .00013 | .06 | .00028 | .00130 | .00174 | .0168 | .00253 | .00713 | .01916 |
| %RSD | 114.44 | 22.697 | 30.592 | 127.69 | 7.1785 | .02182 | 21.767 | 26.590 | 1481.6 | .32536 | 199.24 | 91.985 | 141.31 |
| #1 | -.07343 | -.00458 | .00535 | -.00000 | -.00190 | 272.09 | .00146 | .00398 | -.00135 | 5.1554 | .00052 | .01278 | .02710 |
| #2 | -.00774 | -.00331 | .00831 | -.00008 | -.00172 | 272.17 | .00107 | .00582 | .00111 | 5.1791 | -.00306 | .00271 | .00001 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00042** | **5.0329** | **.00294** | **-.00153** | **10.055** | **-.00072** | **.00295** | **-.04140** |
| Stddev | .00042 | .00008 | .0019 | .00018 | .00100 | .029 | .00001 | .00020 | .00130 |
| %RSD | 204.05 | 17.909 | .03857 | 6.2691 | 65.322 | .28858 | 1.6366 | 6.7214 | 3.1323 |
| #1 | -.00009 | .00037 | 5.0343 | .00307 | -.00082 | 10.075 | -.00073 | .00309 | -.04048 |
| #2 | .00051 | .00047 | 5.0315 | .00281 | -.00224 | 10.034 | -.00072 | .00281 | -.04232 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5541.2** | **70178.** | **4137.6** |
| Stddev | 6.3 | 183. | 12.3 |
| %RSD | .11345 | .26076 | .29815 |
| #1 | 5545.7 | 70049. | 4128.9 |
| #2 | 5536.8 | 70308. | 4146.4 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 23:17:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50268** | **.48812** | **1.0098** | **.51307** | **.50715** | **.46983** | **.00091** | **4.7909** | **.50026** | **.50770** | **.49846** | **.49347** |
| Stddev | .00114 | .00009 | .0014 | .00079 | .00394 | .00490 | .00194 | .0084 | .00023 | .00054 | .00030 | .00074 |
| %RSD | .22620 | .01884 | .13455 | .15462 | .77626 | 1.0430 | 212.63 | .17527 | .04546 | .10558 | .06098 | .15021 |
| #1 | .50188 | .48805 | 1.0107 | .51250 | .50993 | .47330 | .00229 | 4.7969 | .50042 | .50808 | .49867 | .49294 |
| #2 | .50349 | .48818 | 1.0088 | .51363 | .50437 | .46637 | -.00046 | 4.7850 | .50010 | .50732 | .49824 | .49399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2243** | **53.490** | **1.0723** | **19.694** | **.50017** | **.49450** | **5.0464** | **.50698** | **1.0159** | **1.0015** | **-.04680** | **1.0068** |
| Stddev | .0108 | .353 | .0123 | .029 | .00001 | .00130 | .0571 | .00105 | .0039 | .0001 | .00158 | .0039 |
| %RSD | .48405 | .66005 | 1.1498 | .14652 | .00280 | .26310 | 1.1314 | .20649 | .38171 | .00871 | 3.3772 | .38660 |
| #1 | 2.2320 | 53.740 | 1.0810 | 19.715 | .50016 | .49542 | 5.0867 | .50772 | 1.0132 | 1.0015 | -.04568 | 1.0096 |
| #2 | 2.2167 | 53.240 | 1.0636 | 19.674 | .50018 | .49358 | 5.0060 | .50624 | 1.0187 | 1.0016 | -.04792 | 1.0041 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0261** | **4.5941** | **.98082** | **.51127** | **-.00085** | **.49501** | **.97268** | **.04012** | **.49247** | **.49536** | **.47742** |
| Stddev | .0015 | .0527 | .00011 | .00372 | .00079 | .00133 | .00122 | .00145 | .00125 | .00013 | .00125 |
| %RSD | .14276 | 1.1462 | .01170 | .72773 | 92.637 | .26908 | .12552 | 3.6180 | .25340 | .02702 | .26235 |
| #1 | 1.0250 | 4.6314 | .98074 | .51390 | -.00029 | .49407 | .97354 | .04114 | .49335 | .49526 | .47831 |
| #2 | 1.0271 | 4.5569 | .98090 | .50864 | -.00141 | .49596 | .97181 | .03909 | .49159 | .49545 | .47654 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5617.8** | **70874.** | **4149.2** |
| Stddev | 3.2 | 61. | 27.0 |
| %RSD | .05691 | .08561 | .65023 |
| #1 | 5620.1 | 70831. | 4130.1 |
| #2 | 5615.6 | 70917. | 4168.2 |

Sample Name: CCB Acquired: 5/16/2013 23:19:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00127** | **-.00019** | **.00403** | **-.00061** | W **-.00096** | **-.00013** | **-.00168** | **-.00304** | **-.00010** | **.00015** | **.00005** |
| Stddev | .00082 | .00012 | .00081 | .00001 | .00007 | .00001 | .00101 | .00194 | .00003 | .00011 | .00008 |
| %RSD | 64.661 | 62.965 | 20.157 | 1.8573 | 7.2752 | 11.382 | 59.814 | 63.609 | 30.810 | 73.344 | 150.83 |
| #1 | .00185 | -.00028 | .00345 | -.00062 | -.00091 | -.00012 | -.00097 | -.00441 | -.00012 | .00007 | -.00000 |
| #2 | .00069 | -.00011 | .00460 | -.00061 | -.00101 | -.00014 | -.00239 | -.00167 | -.00008 | .00022 | .00011 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | .00058 | | | | | | |
| Low Limit | -.00093 | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **-.00202** | **.00899** | W **-.00270** | **-.00013** | **-.00010** | **-.00027** | **-.05424** | **.00013** | **-.00096** | **.00139** |
| Stddev | .00006 | .00221 | .04564 | .00099 | .00055 | .00002 | .00013 | .00759 | .00038 | .00022 | .00087 |
| %RSD | 23.816 | 109.13 | 507.69 | 36.794 | 424.98 | 23.278 | 46.782 | 13.994 | 297.11 | 23.288 | 62.107 |
| #1 | -.00021 | -.00046 | -.02328 | -.00200 | .00026 | -.00008 | -.00036 | -.04887 | -.00014 | -.00081 | .00201 |
| #2 | -.00030 | -.00358 | .04126 | -.00340 | -.00052 | -.00012 | -.00018 | -.05960 | .00039 | -.00112 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04748** | **-.00203** | **.00242** | **.01340** | **.00064** | **.00004** | **.00212** | **-.00048** | **-.00217** | F **-.07571** | W **-.00117** |
| Stddev | .00043 | .00139 | .00347 | .00339 | .00090 | .00016 | .00081 | .00035 | .00097 | .01393 | .00065 |
| %RSD | .90914 | 68.329 | 143.58 | 25.260 | 140.97 | 390.76 | 37.966 | 73.064 | 44.868 | 18.394 | 55.692 |
| #1 | -.04778 | -.00301 | .00487 | .01101 | .00000 | .00015 | .00269 | -.00073 | -.00148 | -.06587 | -.00071 |
| #2 | -.04717 | -.00105 | -.00004 | .01580 | .00128 | -.00007 | .00155 | -.00023 | -.00286 | -.08556 | -.00162 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn |
| High Limit | | | | | | | | | | .05000 | .00111 |
| Low Limit | | | | | | | | | | -.05000 | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00267** | W **.00251** |
| Stddev | .00033 | .00019 |
| %RSD | 12.439 | 7.4832 |
| #1 | .00291 | .00265 |
| #2 | .00244 | .00238 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5625.3** | **71331.** | **4105.3** |
| Stddev | 1.4 | 139. | 11.6 |
| %RSD | .02413 | .19541 | .28237 |
| #1 | 5626.3 | 71429. | 4113.5 |
| #2 | 5624.3 | 71232. | 4097.1 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 23:21:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01118** | **.10091** | **.01659** | **.10335** | **.00935** | **.00099** | **.10372** | **.19801** | **.00529** | **.01108** | **.01039** |
| Stddev | .00044 | .00050 | .00074 | .00028 | .00040 | .00011 | .00291 | .00061 | .00001 | .00022 | .00002 |
| %RSD | 3.9446 | .49159 | 4.4824 | .27322 | 4.2288 | 11.552 | 2.8029 | .31005 | .14949 | 1.9465 | .18273 |
| #1 | .01087 | .10126 | .01712 | .10315 | .00907 | .00091 | .10166 | .19757 | .00529 | .01124 | .01038 |
| #2 | .01149 | .10055 | .01607 | .10355 | .00963 | .00107 | .10577 | .19844 | .00528 | .01093 | .01041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01460** | **.09576** | **3.3543** | W **.00765** | **.20613** | **.01035** | **.01952** | **1.0031** | **.04209** | **3.0416** | **.00993** |
| Stddev | .00044 | .00027 | .0185 | .00077 | .00112 | .00005 | .00035 | .0150 | .00023 | .0141 | .00066 |
| %RSD | 2.9991 | .27904 | .55050 | 10.017 | .54178 | .50695 | 1.7876 | 1.4966 | .53906 | .46532 | 6.6928 |
| #1 | .01491 | .09595 | 3.3412 | .00820 | .20534 | .01038 | .01927 | .99253 | .04225 | 3.0316 | .01040 |
| #2 | .01429 | .09558 | 3.3673 | .00711 | .20692 | .01031 | .01976 | 1.0138 | .04193 | 3.0516 | .00946 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04714** | **.00931** | W **.01947** | **.47025** | **.09997** | **.01044** | **.01550** | **.00924** | **.01464** | F **.04172** | **.00861** |
| Stddev | .00127 | .00058 | .00358 | .02242 | .00102 | .00011 | .00136 | .00041 | .00008 | .02737 | .00048 |
| %RSD | 2.6941 | 6.1941 | 18.407 | 4.7667 | 1.0204 | 1.0458 | 8.8078 | 4.4602 | .52980 | 65.611 | 5.6129 |
| #1 | -.04624 | .00971 | .02200 | .48610 | .10070 | .01036 | .01453 | .00895 | .01469 | .06107 | .00895 |
| #2 | -.04804 | .00890 | .01694 | .45440 | .09925 | .01051 | .01646 | .00953 | .01458 | .02236 | .00827 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | 20.000% | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02293** | **.01678** |
| Stddev | .00012 | .00099 |
| %RSD | .52363 | 5.9003 |
| #1 | .02302 | .01608 |
| #2 | .02285 | .01748 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5700.4** | **72386.** | **4196.5** |
| Stddev | 11.1 | 158. | 9.3 |
| %RSD | .19387 | .21781 | .22137 |
| #1 | 5692.6 | 72274. | 4189.9 |
| #2 | 5708.2 | 72497. | 4203.1 |

Sample Name: LB2 280-174226/1-B Acquired: 5/16/2013 23:24:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174602 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00132** | **.00629** | W **.00606** | F **.03352** | **.00121** | **-.00007** | **-.00034** | F **.45786** | **.00002** |
| Stddev | .00035 | .00015 | .00145 | .00017 | .00001 | .00005 | .00143 | .00312 | .00006 |
| %RSD | 26.807 | 2.4089 | 23.867 | .52079 | 1.0760 | 63.649 | 423.35 | .68055 | 373.49 |
| #1 | .00107 | .00619 | .00708 | .03364 | .00120 | -.00004 | -.00135 | .46007 | .00006 |
| #2 | .00157 | .00640 | .00503 | .03340 | .00122 | -.00010 | .00067 | .45566 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | .00500 | .01000 | | | | .20000 | |
| Low Limit | | | -.00500 | -.01000 | | | | -.20000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00035** | **.00247** | W **.05682** | **.04113** | **-.00236** | W **.06507** | **.00073** | **-.00046** |
| Stddev | .00024 | .00002 | .00063 | .00083 | .06224 | .00282 | .00098 | .00002 | .00014 |
| %RSD | 148.33 | 6.4625 | 25.460 | 1.4614 | 151.32 | 119.69 | 1.5121 | 2.4856 | 30.822 |
| #1 | .00033 | .00036 | .00292 | .05741 | .08513 | -.00435 | .06576 | .00072 | -.00056 |
| #2 | -.00001 | .00033 | .00203 | .05623 | -.00288 | -.00036 | .06437 | .00074 | -.00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | .05000 | | |
| Low Limit | | | | -.05000 | | | -.05000 | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.6604** | **.00058** | F **.17726** | **.00116** | **-.03684** | **-.00157** | W **.00766** | **.01841** | **.00079** |
| Stddev | .0007 | .00013 | .00172 | .00081 | .00141 | .00234 | .00329 | .00067 | .00020 |
| %RSD | .04195 | 21.640 | .97012 | 69.737 | 3.8300 | 149.03 | 42.983 | 3.6145 | 25.998 |
| #1 | 1.6599 | .00049 | .17605 | .00059 | -.03584 | -.00323 | .00533 | .01794 | .00064 |
| #2 | 1.6609 | .00067 | .17848 | .00173 | -.03784 | .00008 | .00998 | .01888 | .00093 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 1.0000 | | .01000 | | | | .00500 | | |
| Low Limit | -1.0000 | | -.01000 | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **.00121** | **-.00004** | **-.00189** | **-.02821** | **-.00088** | **.00476** | **.00488** |
| Stddev | .00002 | .00057 | .00021 | .00110 | .01711 | .00016 | .00046 | .00172 |
| %RSD | 2.0336 | 46.961 | 590.29 | 58.196 | 60.638 | 18.481 | 9.6365 | 35.231 |
| #1 | .00097 | .00081 | .00012 | -.00267 | -.01612 | -.00077 | .00444 | .00610 |
| #2 | .00100 | .00161 | -.00019 | -.00111 | -.04031 | -.00100 | .00509 | .00367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5731.5** | **72530.** | **4211.2** |
| Stddev | 14.1 | 54. | 29.2 |
| %RSD | .24585 | .07405 | .69378 |
| #1 | 5741.5 | 72492. | 4231.9 |
| #2 | 5721.6 | 72568. | 4190.6 |

Sample Name: LCS 280-174226/2-B Acquired: 5/16/2013 23:26:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174602 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20539** | **.37989** | **.77045** | **.22528** | **2.3822** | **.00887** | **.38573** | **9.4698** | **.21396** |
| Stddev | .00019 | .00040 | .00296 | .00017 | .0005 | .00001 | .00144 | .0208 | .00015 |
| %RSD | .09446 | .10656 | .38444 | .07670 | .01947 | .15303 | .37308 | .21956 | .06931 |
| #1 | .20526 | .38018 | .77254 | .22516 | 2.3826 | .00888 | .38471 | 9.4550 | .21385 |
| #2 | .20553 | .37961 | .76835 | .22540 | 2.3819 | .00886 | .38674 | 9.4845 | .21406 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09692** | **1.0004** | **.42831** | **.22997** | **10.340** | **.20358** | **9.3138** | **.09542** | **.18765** |
| Stddev | .00037 | .0004 | .00002 | .00224 | .013 | .00031 | .0296 | .00010 | .00002 |
| %RSD | .37916 | .04319 | .00444 | .97244 | .12392 | .15376 | .31812 | .10499 | .01128 |
| #1 | .09666 | 1.0007 | .42833 | .22839 | 10.331 | .20380 | 9.3347 | .09535 | .18766 |
| #2 | .09718 | 1.0001 | .42830 | .23155 | 10.349 | .20335 | 9.2928 | .09549 | .18763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **12.831** | **.09563** | **2.0886** | **1.0658** | **-.03615** | **.09434** | **.58208** | F **1.7788** | **.37063** |
| Stddev | .190 | .00009 | .0023 | .0014 | .00163 | .00161 | .00236 | .0166 | .00126 |
| %RSD | 1.4798 | .09270 | .10945 | .13199 | 4.5026 | 1.7103 | .40499 | .93253 | .34003 |
| #1 | 12.965 | .09569 | 2.0869 | 1.0649 | -.03730 | .09548 | .58375 | 1.7906 | .36974 |
| #2 | 12.697 | .09556 | 2.0902 | 1.0668 | -.03500 | .09319 | .58041 | 1.7671 | .37153 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 12.000 | | | | | | | .48000 | |
| Low Limit | 8.0000 | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19702** | **.19144** | **.18758** | **.36902** | **.36456** | **.09308** | **.47319** | **.08763** |
| Stddev | .00004 | .00300 | .00071 | .00130 | .03068 | .00036 | .00135 | .00361 |
| %RSD | .02192 | 1.5669 | .37844 | .35095 | 8.4167 | .38748 | .28515 | 4.1165 |
| #1 | .19699 | .19356 | .18808 | .36810 | .34286 | .09334 | .47414 | .08508 |
| #2 | .19705 | .18931 | .18708 | .36993 | .38626 | .09283 | .47223 | .09018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5646.5** | **72063.** | **4177.7** |
| Stddev | 9.8 | 185. | 9.0 |
| %RSD | .17357 | .25709 | .21523 |
| #1 | 5639.6 | 71932. | 4171.3 |
| #2 | 5653.5 | 72194. | 4184.0 |

Sample Name: 280-42134-A-3-I Acquired: 5/16/2013 23:29:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174602 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00702** | **-.00303** | **.01395** | **.05797** | **-.00026** | **-.00233** | W **562.49** | **-.00020** |
| Stddev | .00073 | .00197 | .00230 | .00047 | .00002 | .00003 | .00151 | 4.36 | .00007 |
| %RSD | 123.58 | 27.987 | 75.764 | 3.3388 | .02990 | 12.255 | 64.623 | .77596 | 35.465 |
| #1 | .00007 | .00841 | -.00466 | .01428 | .05795 | -.00024 | -.00127 | 559.41 | -.00025 |
| #2 | .00110 | .00563 | -.00141 | .01362 | .05798 | -.00028 | -.00340 | 565.58 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00056** | **.00147** | **.14085** | **24.178** | **.01037** | **.06467** | **.00128** | **.00522** |
| Stddev | .00010 | .00012 | .00014 | .00421 | .297 | .00008 | .00142 | .00001 | .00023 |
| %RSD | 22.206 | 20.779 | 9.5339 | 2.9899 | 1.2297 | .72642 | 2.1893 | .55275 | 4.3273 |
| #1 | .00052 | .00064 | .00157 | .13787 | 23.968 | .01042 | .06367 | .00128 | .00538 |
| #2 | .00038 | .00048 | .00137 | .14383 | 24.388 | .01032 | .06567 | .00127 | .00506 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.5866** | W **9.6396** | **.00067** | **.04891** | **.00154** | **185.85** | **-.00045** | **.00317** | **.37019** |
| Stddev | .0664 | .0167 | .00008 | .00216 | .00031 | .19 | .00040 | .00215 | .02906 |
| %RSD | .77294 | .17353 | 12.413 | 4.4118 | 20.372 | .10456 | 87.717 | 67.789 | 7.8487 |
| #1 | 8.5396 | 9.6278 | .00072 | .04738 | .00176 | 185.72 | -.00017 | .00165 | .34965 |
| #2 | 8.6335 | 9.6514 | .00061 | .05043 | .00132 | 185.99 | -.00073 | .00468 | .39074 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 10.000 | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.51671** | **.00404** | **.00284** | **-.00197** | W **-.08107** | **-.00023** | **.02328** | **.00186** |
| Stddev | .00024 | .00579 | .00054 | .00017 | .00080 | .01408 | .00076 | .00045 | .00125 |
| %RSD | 53.858 | 1.1208 | 13.377 | 6.1459 | 40.508 | 17.371 | 324.13 | 1.9282 | 67.088 |
| #1 | -.00028 | .51262 | .00443 | .00271 | -.00141 | -.07111 | .00030 | .02296 | .00098 |
| #2 | -.00063 | .52081 | .00366 | .00296 | -.00254 | -.09103 | -.00077 | .02359 | .00275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 45.000 | | | |
| Low Limit | | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5386.0** | **69687.** | **4104.8** |
| Stddev | 12.4 | 223. | 30.0 |
| %RSD | .23049 | .32064 | .73163 |
| #1 | 5377.2 | 69529. | 4126.1 |
| #2 | 5394.8 | 69845. | 4083.6 |

Sample Name: sd 280-42134-A-3-I@5 Acquired: 5/16/2013 23:32:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174602 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **.00122** | **.00070** | **.00186** | **.01116** | **-.00011** | **-.00196** | **116.60** | **-.00003** |
| Stddev | .00024 | .00049 | .00268 | .00069 | .00040 | .00020 | .00254 | .31 | .00015 |
| %RSD | 19.925 | 39.722 | 383.09 | 37.166 | 3.6013 | 177.71 | 129.49 | .26451 | 534.00 |
| #1 | .00105 | .00156 | -.00120 | .00137 | .01087 | .00003 | -.00376 | 116.38 | .00008 |
| #2 | .00139 | .00088 | .00260 | .00235 | .01144 | -.00025 | -.00017 | 116.82 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00035** | **-.00023** | **.00930** | **4.8788** | **-.00103** | **.01346** | **.00010** | **.00090** |
| Stddev | .00020 | .00000 | .00042 | .00383 | .0034 | .00118 | .00361 | .00002 | .00014 |
| %RSD | 92.492 | .76640 | 179.20 | 41.158 | .06915 | 114.52 | 26.824 | 19.621 | 15.238 |
| #1 | .00036 | .00035 | -.00053 | .00659 | 4.8812 | -.00186 | .01601 | .00012 | .00100 |
| #2 | .00008 | .00036 | .00006 | .01201 | 4.8764 | -.00020 | .01090 | .00009 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6829** | **.00006** | **.00973** | **.00129** | **36.987** | **.00034** | **.00343** | **.06669** | **-.00010** |
| Stddev | .0128 | .00024 | .00107 | .00310 | .020 | .00102 | .00153 | .00377 | .00040 |
| %RSD | .76166 | 417.60 | 10.955 | 241.41 | .05529 | 300.71 | 44.644 | 5.6538 | 390.23 |
| #1 | 1.6739 | -.00011 | .00898 | -.00091 | 37.001 | .00106 | .00235 | .06936 | .00018 |
| #2 | 1.6920 | .00022 | .01048 | .00348 | 36.972 | -.00038 | .00451 | .06403 | -.00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10710** | **.00135** | **.00036** | **-.00088** | **-.04094** | **-.00106** | **.00754** | **.00264** |
| Stddev | .00084 | .00019 | .00027 | .00134 | .04159 | .00040 | .00034 | .00169 |
| %RSD | .78866 | 14.079 | 75.168 | 152.45 | 101.60 | 37.726 | 4.4638 | 63.954 |
| #1 | .10650 | .00148 | .00055 | .00007 | -.01153 | -.00078 | .00730 | .00144 |
| #2 | .10770 | .00121 | .00017 | -.00183 | -.07035 | -.00134 | .00777 | .00383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5671.9** | **72177.** | **4243.2** |
| Stddev | 15.9 | 55. | 17.7 |
| %RSD | .27954 | .07627 | .41722 |
| #1 | 5660.7 | 72216. | 4230.7 |
| #2 | 5683.1 | 72138. | 4255.8 |

Sample Name: 280-42134-A-3-J MS  Acquired: 5/16/2013 23:34:35  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174602 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.21631** | **.40055** | **.84181** | **.23130** | **2.6222** | **.00921** | **.43465** | W **565.88** | **.23671** |
| Stddev | .00033 | .00054 | .00058 | .00018 | .0005 | .00006 | .00106 | .58 | .00026 |
| %RSD | .15368 | .13603 | .06939 | .07876 | .01871 | .67973 | .24359 | .10305 | .10843 |
| #1 | .21608 | .40093 | .84140 | .23143 | 2.6218 | .00925 | .43390 | 566.29 | .23653 |
| #2 | .21655 | .40016 | .84223 | .23118 | 2.6225 | .00916 | .43540 | 565.47 | .23689 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .10000 | | | | | | | 500.00 | |
| Low Limit | -.01000 | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10394** | **1.0490** | **.47073** | **.19245** | **35.598** | **.23863** | **9.6280** | **.10072** | **.20977** |
| Stddev | .00040 | .0017 | .00028 | .00108 | .122 | .00023 | .0213 | .00004 | .00043 |
| %RSD | .38151 | .16396 | .05909 | .56269 | .34277 | .09469 | .22079 | .04424 | .20722 |
| #1 | .10366 | 1.0478 | .47092 | .19321 | 35.684 | .23879 | 9.6430 | .10069 | .20946 |
| #2 | .10422 | 1.0502 | .47053 | .19168 | 35.512 | .23847 | 9.6130 | .10076 | .21008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.683** | **.10176** | **2.2246** | **1.1266** | **200.28** | **.10981** | **.07250** | **2.2499** | **.40253** |
| Stddev | .129 | .00029 | .0066 | .0006 | .22 | .00106 | .00122 | .0140 | .00149 |
| %RSD | .59718 | .28687 | .29795 | .05770 | .11199 | .96727 | 1.6766 | .62356 | .37124 |
| #1 | 21.774 | .10156 | 2.2200 | 1.1271 | 200.12 | .10906 | .07164 | 2.2598 | .40147 |
| #2 | 21.591 | .10197 | 2.2293 | 1.1261 | 200.44 | .11057 | .07335 | 2.2400 | .40359 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.73097** | **.20897** | **.20749** | **.40389** | **.35098** | **.10143** | **.49710** | **.09833** |
| Stddev | .00259 | .00048 | .00052 | .00086 | .01888 | .00000 | .00049 | .00125 |
| %RSD | .35441 | .23185 | .25158 | .21169 | 5.3779 | .00061 | .09875 | 1.2682 |
| #1 | .73280 | .20931 | .20712 | .40449 | .33763 | .10143 | .49744 | .09745 |
| #2 | .72914 | .20862 | .20786 | .40328 | .36433 | .10143 | .49675 | .09921 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5443.1** | **70954.** | **4177.5** |
| Stddev | 15.0 | 180. | 2.1 |
| %RSD | .27640 | .25322 | .05025 |
| #1 | 5453.8 | 70827. | 4176.0 |
| #2 | 5432.5 | 71081. | 4179.0 |

Sample Name: 280-42134-A-3-K MSD Acquired: 5/16/2013 23:37:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174602 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.20593** | **.40230** | **.82692** | **.23354** | **2.6114** | **.00937** | **.41413** | W **570.07** | **.23122** |
| Stddev | .00042 | .00011 | .00692 | .00128 | .0181 | .00021 | .00534 | 4.50 | .00078 |
| %RSD | .20455 | .02824 | .83712 | .54885 | .69314 | 2.1913 | 1.2906 | .78970 | .33570 |
| #1 | .20563 | .40222 | .82202 | .23264 | 2.5986 | .00923 | .41035 | 566.89 | .23067 |
| #2 | .20623 | .40238 | .83181 | .23445 | 2.6242 | .00952 | .41791 | 573.25 | .23177 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .10000 | | | | | | | 500.00 | |
| Low Limit | -.01000 | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09978** | **1.0511** | **.44655** | **.19420** | **35.497** | **.24127** | **9.6228** | **.10059** | **.20468** |
| Stddev | .00039 | .0024 | .00056 | .00299 | .340 | .00278 | .0160 | .00021 | .00052 |
| %RSD | .38695 | .23342 | .12625 | 1.5381 | .95743 | 1.1521 | .16584 | .21051 | .25549 |
| #1 | .09951 | 1.0494 | .44615 | .19209 | 35.257 | .23930 | 9.6115 | .10044 | .20431 |
| #2 | .10006 | 1.0528 | .44695 | .19631 | 35.737 | .24324 | 9.6341 | .10074 | .20505 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.913** | **.09997** | **2.2185** | **1.0701** | **199.97** | **.10739** | **.05244** | **2.2655** | **.38770** |
| Stddev | .353 | .00036 | .0020 | .0008 | .51 | .00090 | .00071 | .0152 | .00122 |
| %RSD | 1.6118 | .36172 | .08815 | .07350 | .25557 | .83711 | 1.3473 | .66868 | .31361 |
| #1 | 21.663 | .09972 | 2.2171 | 1.0707 | 199.61 | .10676 | .05294 | 2.2548 | .38684 |
| #2 | 22.163 | .10023 | 2.2198 | 1.0696 | 200.34 | .10803 | .05194 | 2.2762 | .38856 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.73018** | **.20797** | **.20744** | **.38418** | **.36414** | **.09950** | **.49613** | **.09901** |
| Stddev | .00640 | .00201 | .00068 | .00531 | .02440 | .00002 | .00084 | .00031 |
| %RSD | .87651 | .96599 | .32829 | 1.3809 | 6.7002 | .02500 | .16991 | .31137 |
| #1 | .72565 | .20655 | .20696 | .38043 | .34689 | .09952 | .49673 | .09923 |
| #2 | .73470 | .20939 | .20792 | .38793 | .38140 | .09948 | .49554 | .09879 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5478.5** | **71293.** | **4223.0** |
| Stddev | 23.6 | 186. | 12.2 |
| %RSD | .43126 | .26126 | .28984 |
| #1 | 5495.2 | 71161. | 4231.6 |
| #2 | 5461.8 | 71425. | 4214.3 |

Sample Name: CCVH-2050355 Acquired: 5/16/2013 23:40:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **49.041** | **.00399** | **-.00077** | **-.00035** | **.00005** | **1.0230** | **.00070** | **-.00079** | **.00218** | **.00011** | **.00006** |
| Stddev | .00051 | .092 | .00023 | .00015 | .00019 | .00000 | .0100 | .00073 | .00015 | .00003 | .00017 | .00024 |
| %RSD | 53.162 | .18834 | 5.8674 | 18.964 | 54.033 | 4.1259 | .97353 | 104.77 | 19.530 | 1.5621 | 154.70 | 426.69 |
| #1 | .00059 | 49.106 | .00383 | -.00088 | -.00049 | .00005 | 1.0160 | .00018 | -.00090 | .00220 | -.00001 | .00022 |
| #2 | .00131 | 48.976 | .00416 | -.00067 | -.00022 | .00005 | 1.0301 | .00121 | -.00068 | .00215 | .00023 | -.00011 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.355** | **.04192** | **-.00330** | **.00838** | **-.00009** | **-.00223** | F **277.99** | **.00144** | **.00446** | **-.00056** | **5.2808** | **-.00007** |
| Stddev | .067 | .07200 | .00008 | .00057 | .00000 | .00005 | .27 | .00007 | .00115 | .00114 | .0659 | .00083 |
| %RSD | .14478 | 171.73 | 2.4107 | 6.7640 | 1.7338 | 2.2019 | .09765 | 4.7128 | 25.784 | 202.66 | 1.2476 | 1231.5 |
| #1 | 46.403 | -.00899 | -.00336 | .00878 | -.00009 | -.00227 | 278.18 | .00148 | .00365 | .00024 | 5.2342 | .00052 |
| #2 | 46.308 | .09283 | -.00324 | .00798 | -.00009 | -.00220 | 277.80 | .00139 | .00528 | -.00137 | 5.3274 | -.00065 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00577** | **.01045** | **.00110** | **.00053** | **5.1285** | **.00309** | **-.00202** | **10.192** | **-.00101** | **.00290** | **-.04801** |
| Stddev | .00570 | .00910 | .00053 | .00002 | .0169 | .00013 | .00019 | .047 | .00054 | .00004 | .00127 |
| %RSD | 98.820 | 87.110 | 48.500 | 3.2170 | .32937 | 4.1942 | 9.1539 | .46376 | 53.420 | 1.2581 | 2.6494 |
| #1 | .00174 | .00401 | .00072 | .00054 | 5.1404 | .00300 | -.00215 | 10.226 | -.00063 | .00293 | -.04711 |
| #2 | .00980 | .01688 | .00147 | .00051 | 5.1165 | .00319 | -.00189 | 10.159 | -.00140 | .00287 | -.04891 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5590.7** | **70557.** | **4122.8** |
| Stddev | 34.8 | 287. | 4.9 |
| %RSD | .62249 | .40728 | .11867 |
| #1 | 5615.3 | 70353. | 4119.3 |
| #2 | 5566.1 | 70760. | 4126.2 |

Sample Name: CCV-2050339 Acquired: 5/16/2013 23:42:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50952** | **.49245** | **1.0117** | **.51765** | **.51789** | **.47798** | **.00003** | **4.8564** | **.50356** | **.51081** | **.49903** | **.49903** | **2.2566** |
| Stddev | .00123 | .00002 | .0065 | .00048 | .00037 | .00150 | .00214 | .0145 | .00074 | .00090 | .00073 | .00049 | .0154 |
| %RSD | .24207 | .00461 | .64348 | .09239 | .07075 | .31373 | 7089.8 | .29944 | .14732 | .17568 | .14668 | .09832 | .68276 |
| #1 | .50865 | .49243 | 1.0163 | .51731 | .51815 | .47904 | .00154 | 4.8667 | .50408 | .51144 | .49955 | .49869 | 2.2675 |
| #2 | .51040 | .49247 | 1.0071 | .51799 | .51763 | .47692 | -.00148 | 4.8462 | .50304 | .51017 | .49852 | .49938 | 2.2457 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.418** | **1.0925** | **19.808** | **.50596** | **.49297** | **5.1966** | **.50605** | **1.0211** | **1.0066** | **-.00880** | **1.0161** | **1.0346** | **4.6294** |
| Stddev | .358 | .0017 | .065 | .00152 | .00163 | .0432 | .00126 | .0032 | .0024 | .00204 | .0025 | .0032 | .0406 |
| %RSD | .65713 | .15482 | .32807 | .30100 | .32991 | .83190 | .24902 | .31508 | .24273 | 23.143 | .24581 | .31455 | .87764 |
| #1 | 54.671 | 1.0937 | 19.762 | .50489 | .49412 | 5.2272 | .50694 | 1.0233 | 1.0083 | -.00736 | 1.0143 | 1.0323 | 4.6581 |
| #2 | 54.165 | 1.0913 | 19.854 | .50704 | .49182 | 5.1660 | .50516 | 1.0188 | 1.0048 | -.01024 | 1.0179 | 1.0369 | 4.6007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98383** | **.52372** | **.00374** | **.50089** | **.97733** | **-.02490** | **.49781** | **.49651** | **.48590** |
| Stddev | .00201 | .00060 | .00049 | .00235 | .00530 | .01105 | .00138 | .00043 | .00254 |
| %RSD | .20469 | .11481 | 13.001 | .46998 | .54228 | 44.385 | .27740 | .08755 | .52285 |
| #1 | .98241 | .52415 | .00340 | .49923 | .97358 | -.03272 | .49683 | .49682 | .48769 |
| #2 | .98526 | .52330 | .00409 | .50256 | .98108 | -.01709 | .49878 | .49620 | .48410 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5697.9** | **71667.** | **4172.9** |
| Stddev | 19.7 | 135. | 20.9 |
| %RSD | .34493 | .18776 | .50191 |
| #1 | 5684.1 | 71762. | 4158.1 |
| #2 | 5711.8 | 71572. | 4187.8 |

Sample Name: CCB Acquired: 5/16/2013 23:45:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00218** | **-.00003** | W **.00505** | **-.00083** | **-.00046** | **.00002** | **-.00124** | **-.00296** | **-.00000** | **.00018** | **.00007** |
| Stddev | .00010 | .00008 | .00145 | .00046 | .00027 | .00000 | .00162 | .00065 | .00000 | .00001 | .00001 |
| %RSD | 4.5959 | 225.71 | 28.619 | 55.226 | 58.554 | 12.776 | 130.90 | 22.019 | 37.044 | 8.0184 | 8.1770 |
| #1 | .00211 | -.00009 | .00608 | -.00115 | -.00065 | .00003 | -.00239 | -.00342 | -.00000 | .00017 | .00006 |
| #2 | .00225 | .00002 | .00403 | -.00050 | -.00027 | .00002 | -.00009 | -.00250 | -.00000 | .00020 | .00007 |
| Check ? | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | .00440 | | | | | | | | |
| Low Limit | -.00180 | | -.00440 | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **-.00476** | **.03404** | **-.00164** | **.00309** | **-.00005** | **-.00009** | **-.04986** | **-.00024** | **-.00125** | **.00064** |
| Stddev | .00006 | .00070 | .07876 | .00138 | .00128 | .00000 | .00027 | .01323 | .00019 | .00124 | .00186 |
| %RSD | 14.737 | 14.614 | 231.37 | 84.312 | 41.348 | 9.4274 | 287.55 | 26.530 | 78.905 | 99.740 | 288.37 |
| #1 | -.00035 | -.00427 | .08973 | -.00261 | .00399 | -.00004 | .00010 | -.04051 | -.00010 | -.00037 | -.00067 |
| #2 | -.00043 | -.00525 | -.02165 | -.00066 | .00219 | -.00005 | -.00029 | -.05922 | -.00037 | -.00213 | .00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01800** | **-.00117** | **.00082** | **-.00836** | **.00029** | **.00004** | **.00144** | **-.00005** | **-.00156** | **-.01934** | **-.00108** |
| Stddev | .00150 | .00079 | .00214 | .00373 | .00028 | .00006 | .00142 | .00022 | .00178 | .04666 | .00014 |
| %RSD | 8.3214 | 67.564 | 261.81 | 44.565 | 97.926 | 131.84 | 98.446 | 413.45 | 114.05 | 241.28 | 12.684 |
| #1 | -.01906 | -.00172 | -.00069 | -.00573 | .00049 | .00008 | .00044 | -.00021 | -.00030 | .01365 | -.00117 |
| #2 | -.01694 | -.00061 | .00233 | -.01100 | .00009 | .00000 | .00244 | .00010 | -.00282 | -.05233 | -.00098 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00255** | W **.00393** |
| Stddev | .00049 | .00248 |
| %RSD | 19.266 | 62.933 |
| #1 | .00290 | .00568 |
| #2 | .00220 | .00218 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5738.5** | **72738.** | **4186.3** |
| Stddev | 9.8 | 254. | 28.1 |
| %RSD | .17040 | .34883 | .67151 |
| #1 | 5745.4 | 72559. | 4166.5 |
| #2 | 5731.5 | 72917. | 4206.2 |

Sample Name: CCVL2055043 Acquired: 5/16/2013 23:47:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01117** | **.10113** | W **.01833** | **.10199** | **.00988** | **.00094** | **.10642** | **.19194** | **.00527** | **.01073** | **.01040** |
| Stddev | .00090 | .00091 | .00001 | .00057 | .00001 | .00017 | .00058 | .00663 | .00004 | .00021 | .00012 |
| %RSD | 8.0675 | .89947 | .04049 | .56024 | .05234 | 18.116 | .54470 | 3.4526 | .80708 | 1.9175 | 1.1221 |
| #1 | .01054 | .10049 | .01834 | .10158 | .00988 | .00082 | .10601 | .19662 | .00530 | .01059 | .01049 |
| #2 | .01181 | .10178 | .01833 | .10239 | .00988 | .00106 | .10683 | .18725 | .00524 | .01088 | .01032 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01402** | **.08739** | **3.3210** | W **.00755** | **.20383** | **.01032** | **.01920** | **1.0084** | **.04120** | **3.0172** | **.00829** |
| Stddev | .00028 | .00202 | .0186 | .00203 | .00237 | .00010 | .00008 | .0015 | .00020 | .0113 | .00070 |
| %RSD | 1.9826 | 2.3171 | .56086 | 26.915 | 1.1634 | .94868 | .41758 | .14978 | .49598 | .37280 | 8.4787 |
| #1 | .01383 | .08596 | 3.3342 | .00611 | .20215 | .01025 | .01926 | 1.0095 | .04105 | 3.0092 | .00779 |
| #2 | .01422 | .08882 | 3.3078 | .00899 | .20551 | .01039 | .01914 | 1.0074 | .04134 | 3.0251 | .00878 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02332** | **.00862** | **.01780** | **.45335** | **.09865** | **.01060** | **.01654** | **.00944** | **.01292** | F **.04184** | **.00903** |
| Stddev | .00116 | .00180 | .00276 | .02093 | .00039 | .00010 | .00022 | .00034 | .00020 | .02921 | .00008 |
| %RSD | 4.9940 | 20.841 | 15.522 | 4.6174 | .39703 | .92127 | 1.3326 | 3.5943 | 1.5429 | 69.816 | .88259 |
| #1 | -.02250 | .00735 | .01585 | .46815 | .09837 | .01053 | .01638 | .00968 | .01306 | .06249 | .00909 |
| #2 | -.02415 | .00989 | .01975 | .43855 | .09892 | .01067 | .01670 | .00920 | .01278 | .02118 | .00897 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02233** | **.01530** |
| Stddev | .00062 | .00017 |
| %RSD | 2.7688 | 1.1337 |
| #1 | .02277 | .01517 |
| #2 | .02189 | .01542 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5786.7** | **73136.** | **4236.8** |
| Stddev | 24.8 | 109. | 20.5 |
| %RSD | .42860 | .14873 | .48306 |
| #1 | 5804.3 | 73213. | 4251.2 |
| #2 | 5769.2 | 73059. | 4222.3 |

Sample Name: MB 280-174344/1-A Acquired: 5/16/2013 23:50:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00178** | **.00084** | **.00114** | **-.00122** | **-.00087** | **-.00007** | **.00097** | **.00026** | **-.00004** |
| Stddev | .00006 | .00001 | .00191 | .00048 | .00013 | .00001 | .00091 | .00144 | .00006 |
| %RSD | 3.2628 | .91383 | 166.52 | 39.164 | 15.065 | 20.714 | 94.349 | 557.46 | 137.46 |
| #1 | .00182 | .00084 | -.00020 | -.00155 | -.00097 | -.00006 | .00162 | .00127 | -.00008 |
| #2 | .00174 | .00085 | .00249 | -.00088 | -.00078 | -.00008 | .00032 | -.00076 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00018** | **-.00034** | **.01828** | **-.04535** | **-.00325** | **.00688** | **.00013** | **-.00011** |
| Stddev | .00010 | .00002 | .00007 | .00164 | .00103 | .00143 | .00176 | .00001 | .00012 |
| %RSD | 57.462 | 13.925 | 21.025 | 8.9778 | 2.2622 | 44.078 | 25.561 | 6.0710 | 111.09 |
| #1 | .00010 | .00019 | -.00039 | .01944 | -.04608 | -.00224 | .00563 | .00012 | -.00002 |
| #2 | .00024 | .00016 | -.00029 | .01712 | -.04463 | -.00427 | .00812 | .00013 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07531** | **-.00011** | F **.17249** | **.00098** | **-.02332** | **-.00096** | **-.00085** | **.01661** | **-.00033** |
| Stddev | .00264 | .00007 | .00152 | .00027 | .00015 | .00177 | .00141 | .03066 | .00026 |
| %RSD | 3.5014 | 59.769 | .88027 | 27.075 | .64702 | 184.68 | 165.33 | 184.56 | 77.782 |
| #1 | -.07345 | -.00007 | .17141 | .00117 | -.02343 | .00029 | -.00185 | .03829 | -.00015 |
| #2 | -.07718 | -.00016 | .17356 | .00080 | -.02321 | -.00221 | .00014 | -.00507 | -.00052 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00085** | **-.00019** | **-.00097** | **-.02823** | **-.00149** | **.00219** | **.00427** |
| Stddev | .00008 | .00000 | .00034 | .00115 | .02494 | .00010 | .00021 | .00124 |
| %RSD | 181.04 | .54782 | 182.06 | 118.29 | 88.356 | 6.9091 | 9.6930 | 29.112 |
| #1 | -.00010 | .00085 | -.00043 | -.00016 | -.01059 | -.00157 | .00234 | .00339 |
| #2 | .00001 | .00085 | .00005 | -.00179 | -.04586 | -.00142 | .00204 | .00515 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5777.6** | **73331.** | **4237.5** |
| Stddev | 1.0 | 103. | 19.8 |
| %RSD | .01713 | .14011 | .46744 |
| #1 | 5776.9 | 73258. | 4251.5 |
| #2 | 5778.3 | 73404. | 4223.5 |

Sample Name: LCS 280-174344/2-A Acquired: 5/16/2013 23:52:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05358** | **1.9219** | **1.0288** | **1.0622** | **2.0873** | **.04834** | **2.0721** | **47.402** | **.10407** |
| Stddev | .00039 | .0014 | .0021 | .0010 | .0175 | .00001 | .0044 | .481 | .00001 |
| %RSD | .72193 | .07487 | .20043 | .09334 | .84052 | .02752 | .21443 | 1.0146 | .00773 |
| #1 | .05331 | 1.9229 | 1.0273 | 1.0615 | 2.0997 | .04835 | 2.0752 | 47.742 | .10406 |
| #2 | .05385 | 1.9209 | 1.0302 | 1.0629 | 2.0749 | .04833 | 2.0690 | 47.062 | .10408 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50709** | **.20178** | **.24940** | **.89439** | **54.434** | **1.0817** | **49.612** | **.50230** | **1.0005** |
| Stddev | .00016 | .00036 | .00026 | .00250 | .492 | .0120 | .051 | .00076 | .0003 |
| %RSD | .03102 | .18033 | .10617 | .27991 | .90373 | 1.1076 | .10215 | .15048 | .02796 |
| #1 | .50698 | .20152 | .24921 | .89616 | 54.782 | 1.0901 | 49.576 | .50176 | 1.0007 |
| #2 | .50720 | .20204 | .24958 | .89262 | 54.086 | 1.0732 | 49.648 | .50283 | 1.0003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **56.729** | **.50067** | **10.711** | **.50205** | **-.03263** | **.51794** | **2.1092** | F **9.3584** | **1.9867** |
| Stddev | .285 | .00026 | .008 | .00116 | .00088 | .00189 | .0062 | .0619 | .0070 |
| %RSD | .50162 | .05168 | .07417 | .23110 | 2.7002 | .36490 | .29162 | .66145 | .35461 |
| #1 | 56.528 | .50049 | 10.705 | .50287 | -.03201 | .51660 | 2.1048 | 9.4022 | 1.9818 |
| #2 | 56.931 | .50086 | 10.716 | .50123 | -.03325 | .51927 | 2.1135 | 9.3147 | 1.9917 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0377** | **1.0277** | **1.0079** | **1.9748** | **2.0678** | **.50522** | **.49395** | **.47754** |
| Stddev | .0089 | .0007 | .0019 | .0076 | .0192 | .00043 | .00002 | .00211 |
| %RSD | .86229 | .07104 | .18909 | .38331 | .92832 | .08563 | .00351 | .44245 |
| #1 | 1.0441 | 1.0282 | 1.0066 | 1.9695 | 2.0814 | .50553 | .49396 | .47903 |
| #2 | 1.0314 | 1.0271 | 1.0093 | 1.9802 | 2.0542 | .50492 | .49394 | .47604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5604.1** | **71204.** | **4196.6** |
| Stddev | 5.6 | 141. | 39.3 |
| %RSD | .10003 | .19845 | .93553 |
| #1 | 5600.1 | 71304. | 4168.8 |
| #2 | 5608.0 | 71104. | 4224.3 |

Sample Name: 280-42191-A-61-A  Acquired: 5/16/2013 23:54:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00194** | **.00179** | **.00478** | **10.606** | **.02261** | **-.00008** | **.00400** | **46.155** | **.00040** |
| Stddev | .00047 | .00022 | .00137 | .003 | .00010 | .00010 | .00018 | .059 | .00003 |
| %RSD | 24.043 | 12.393 | 28.619 | .03190 | .43578 | 123.28 | 4.4106 | .12803 | 8.4856 |
| #1 | .00161 | .00195 | .00381 | 10.603 | .02268 | -.00001 | .00387 | 46.113 | .00042 |
| #2 | .00226 | .00163 | .00574 | 10.608 | .02254 | -.00015 | .00412 | 46.197 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **-.00144** | **.04549** | **.00126** | **63.947** | **.21195** | **13.001** | **.01389** | **.24106** |
| Stddev | .00007 | .00020 | .00012 | .00259 | .107 | .00052 | .007 | .00007 | .00093 |
| %RSD | 8.4063 | 13.855 | .26241 | 205.82 | .16694 | .24747 | .05359 | .49197 | .38659 |
| #1 | .00085 | -.00130 | .04540 | -.00057 | 63.872 | .21158 | 13.006 | .01394 | .24172 |
| #2 | .00076 | -.00158 | .04557 | .00309 | 64.023 | .21232 | 12.996 | .01384 | .24040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **144.00** | **.02686** | **.13622** | **.00196** | **404.79** | **.01026** | **.00762** | **.31268** | **.00373** |
| Stddev | .60 | .00022 | .00260 | .00001 | .16 | .00161 | .00098 | .01659 | .00008 |
| %RSD | .41389 | .81565 | 1.9068 | .52643 | .03920 | 15.733 | 12.909 | 5.3056 | 2.1845 |
| #1 | 143.58 | .02671 | .13805 | .00197 | 404.68 | .00912 | .00832 | .32441 | .00368 |
| #2 | 144.43 | .02702 | .13438 | .00195 | 404.90 | .01140 | .00693 | .30095 | .00379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53190** | **.00311** | **-.00055** | **-.00060** | W **-.05790** | **-.00102** | F **234.46** | **.00266** |
| Stddev | .00131 | .00051 | .00015 | .00094 | .02690 | .00028 | .86 | .00041 |
| %RSD | .24707 | 16.470 | 26.873 | 156.99 | 46.469 | 27.409 | .36473 | 15.476 |
| #1 | .53098 | .00275 | -.00066 | .00007 | -.03887 | -.00122 | 235.07 | .00296 |
| #2 | .53283 | .00347 | -.00045 | -.00127 | -.07692 | -.00082 | 233.86 | .00237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | 45.000 | | 50.000 | |
| Low Limit | | | | | -.05000 | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5561.9** | **70382.** | **4210.9** |
| Stddev | 4.7 | 105. | 16.5 |
| %RSD | .08446 | .14964 | .39213 |
| #1 | 5565.2 | 70307. | 4222.6 |
| #2 | 5558.6 | 70456. | 4199.2 |

Sample Name: 280-42191-A-62-A  Acquired: 5/16/2013 23:57:10  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00559** | **.00476** | **.01076** | **6.5982** | **.02672** | **-.00007** | **.00352** | **64.386** | **.00389** |
| Stddev | .00002 | .00008 | .00028 | .0107 | .00029 | .00004 | .00053 | .357 | .00009 |
| %RSD | .42857 | 1.6210 | 2.5994 | .16279 | 1.0854 | 51.348 | 15.151 | .55392 | 2.4145 |
| #1 | .00557 | .00482 | .01096 | 6.5906 | .02693 | -.00005 | .00314 | 64.638 | .00382 |
| #2 | .00560 | .00471 | .01057 | 6.6058 | .02652 | -.00010 | .00390 | 64.134 | .00396 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00325** | **-.00054** | **2.6407** | **.01855** | W **119.25** | **.20290** | **13.402** | **.02974** | **.36668** |
| Stddev | .00009 | .00016 | .0061 | .00012 | .43 | .00162 | .046 | .00003 | .00170 |
| %RSD | 2.6851 | 28.992 | .23140 | .64336 | .36280 | .79732 | .34200 | .11342 | .46341 |
| #1 | .00331 | -.00043 | 2.6450 | .01863 | 119.55 | .20404 | 13.370 | .02977 | .36548 |
| #2 | .00318 | -.00065 | 2.6363 | .01846 | 118.94 | .20175 | 13.434 | .02972 | .36789 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **177.07** | **.22984** | **.18365** | **.00329** | **872.07** | **.12035** | **.02841** | **.40179** | **.00626** |
| Stddev | 1.94 | .00100 | .00262 | .00069 | .75 | .00122 | .00439 | .00358 | .00025 |
| %RSD | 1.0938 | .43701 | 1.4291 | 20.892 | .08571 | 1.0129 | 15.445 | .89002 | 3.9313 |
| #1 | 178.44 | .22913 | .18180 | .00280 | 871.54 | .11949 | .03151 | .40432 | .00609 |
| #2 | 175.71 | .23055 | .18551 | .00377 | 872.60 | .12121 | .02530 | .39927 | .00644 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.73902** | **.00482** | **-.00079** | **.00414** | W **-.07084** | **-.00097** | F **371.82** | **.00211** |
| Stddev | .00337 | .00104 | .00025 | .00004 | .01542 | .00001 | 4.69 | .00069 |
| %RSD | .45614 | 21.676 | 31.355 | 1.0064 | 21.768 | .63805 | 1.2625 | 32.862 |
| #1 | .74141 | .00556 | -.00096 | .00411 | -.05994 | -.00098 | 368.50 | .00162 |
| #2 | .73664 | .00408 | -.00061 | .00417 | -.08175 | -.00097 | 375.14 | .00260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | 45.000 | | 50.000 | |
| Low Limit | | | | | -.05000 | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5425.8** | **69857.** | **4151.3** |
| Stddev | 10.6 | 685. | 12.9 |
| %RSD | .19524 | .98084 | .31104 |
| #1 | 5433.3 | 70341. | 4142.1 |
| #2 | 5418.3 | 69372. | 4160.4 |

Sample Name: 280-42191-A-63-A  Acquired: 5/16/2013 23:59:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00261** | **.00568** | **2.2349** | **.04318** | **-.00016** | **-.00213** | **209.03** | **.00537** |
| Stddev | .00016 | .00004 | .00023 | .0032 | .00060 | .00002 | .00199 | .63 | .00028 |
| %RSD | 19.227 | 1.3759 | 4.0363 | .14230 | 1.3799 | 10.534 | 93.623 | .30225 | 5.1564 |
| #1 | .00071 | .00264 | .00552 | 2.2372 | .04276 | -.00018 | -.00072 | 209.48 | .00557 |
| #2 | .00093 | .00259 | .00584 | 2.2327 | .04361 | -.00015 | -.00353 | 208.58 | .00518 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02295** | **.00196** | **.07007** | **.17445** | **82.585** | **.08460** | **75.105** | **.10290** | **.44467** |
| Stddev | .00026 | .00015 | .00014 | .00070 | .403 | .00037 | .287 | .00020 | .00036 |
| %RSD | 1.1409 | 7.5301 | .19899 | .39945 | .48769 | .43779 | .38211 | .19547 | .07985 |
| #1 | .02277 | .00186 | .07017 | .17396 | 82.870 | .08486 | 75.308 | .10304 | .44492 |
| #2 | .02314 | .00206 | .06997 | .17494 | 82.300 | .08434 | 74.902 | .10276 | .44441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **135.82** | **.07231** | **.15231** | **.00132** | **463.02** | **.00057** | **.00494** | **2.3905** | **.00112** |
| Stddev | 1.25 | .00025 | .00021 | .00300 | .11 | .00334 | .00122 | .0086 | .00039 |
| %RSD | .91714 | .35129 | .13709 | 226.76 | .02389 | 583.97 | 24.729 | .35961 | 34.454 |
| #1 | 136.70 | .07249 | .15216 | .00344 | 463.10 | -.00179 | .00580 | 2.3966 | .00139 |
| #2 | 134.94 | .07213 | .15246 | -.00080 | 462.94 | .00293 | .00407 | 2.3844 | .00085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0994** | **.00234** | **.00103** | **.00243** | **.00409** | **-.00045** | F **63.835** | **.00254** |
| Stddev | .0047 | .00019 | .00011 | .00054 | .00047 | .00068 | .312 | .00087 |
| %RSD | .42983 | 8.0923 | 10.714 | 22.115 | 11.412 | 150.58 | .48803 | 34.199 |
| #1 | 1.1027 | .00247 | .00111 | .00205 | .00442 | -.00093 | 64.056 | .00193 |
| #2 | 1.0960 | .00220 | .00095 | .00281 | .00376 | .00003 | 63.615 | .00316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5442.4** | **69510.** | **4144.9** |
| Stddev | 15.6 | 307. | 26.1 |
| %RSD | .28584 | .44133 | .63005 |
| #1 | 5431.4 | 69294. | 4126.4 |
| #2 | 5453.4 | 69727. | 4163.3 |

Sample Name: 280-42191-A-64-A  Acquired: 5/17/2013 0:02:05  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00126** | **.00054** | **.00286** | **4.1238** | **.02969** | **-.00016** | **-.00148** | **314.68** | **.00087** |
| Stddev | .00009 | .00001 | .00094 | .0032 | .00009 | .00010 | .00124 | 1.85 | .00035 |
| %RSD | 7.3311 | 1.1385 | 32.914 | .07840 | .30022 | 60.230 | 83.540 | .58682 | 40.002 |
| #1 | .00133 | .00055 | .00352 | 4.1215 | .02976 | -.00023 | -.00236 | 313.37 | .00111 |
| #2 | .00120 | .00054 | .00219 | 4.1261 | .02963 | -.00009 | -.00061 | 315.98 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00624** | **.00051** | **.01333** | **.00527** | **18.269** | **.51090** | **70.366** | **1.6154** | **.00151** |
| Stddev | .00000 | .00009 | .00010 | .00110 | .139 | .00311 | .198 | .0015 | .00000 |
| %RSD | .04683 | 18.522 | .74138 | 20.813 | .76085 | .60853 | .28109 | .09489 | .14346 |
| #1 | .00624 | .00057 | .01340 | .00449 | 18.171 | .50870 | 70.506 | 1.6165 | .00151 |
| #2 | .00624 | .00044 | .01326 | .00604 | 18.367 | .51310 | 70.226 | 1.6144 | .00151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.760** | **.03099** | **.19527** | **.00085** | **250.89** | **-.00017** | **.00142** | **6.0975** | **.00214** |
| Stddev | .160 | .00003 | .00223 | .00058 | .21 | .00078 | .00009 | .0022 | .00099 |
| %RSD | .42483 | .10030 | 1.1418 | 67.287 | .08336 | 463.48 | 6.6554 | .03667 | 45.989 |
| #1 | 37.646 | .03097 | .19685 | .00045 | 250.74 | .00038 | .00149 | 6.0959 | .00284 |
| #2 | 37.873 | .03101 | .19370 | .00126 | 251.04 | -.00072 | .00136 | 6.0991 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4070** | **.00013** | **.00136** | **-.00148** | W **-.05204** | **-.00055** | **5.5722** | **.00216** |
| Stddev | .0116 | .00425 | .00006 | .00003 | .01595 | .00044 | .0165 | .00226 |
| %RSD | .82639 | 3240.0 | 4.1801 | 1.8884 | 30.656 | 79.594 | .29545 | 104.67 |
| #1 | 1.3988 | -.00287 | .00132 | -.00146 | -.06332 | -.00024 | 5.5839 | .00056 |
| #2 | 1.4152 | .00314 | .00140 | -.00150 | -.04076 | -.00086 | 5.5606 | .00376 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5550.3** | **71544.** | **4216.7** |
| Stddev | 13.9 | 60. | 8.2 |
| %RSD | .24965 | .08317 | .19449 |
| #1 | 5540.5 | 71586. | 4222.5 |
| #2 | 5560.1 | 71501. | 4210.9 |

Sample Name: 280-42191-A-65-A  Acquired: 5/17/2013 0:04:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00128** | **.00156** | **.00343** | **5.0286** | **.05205** | **-.00013** | **-.00248** | **338.26** | **.00037** |
| Stddev | .00001 | .00009 | .00125 | .0006 | .00021 | .00014 | .00276 | 2.76 | .00011 |
| %RSD | 1.0326 | 5.5384 | 36.298 | .01121 | .40529 | 106.35 | 111.57 | .81569 | 29.777 |
| #1 | .00127 | .00162 | .00255 | 5.0290 | .05219 | -.00024 | -.00443 | 340.21 | .00029 |
| #2 | .00129 | .00150 | .00431 | 5.0282 | .05190 | -.00003 | -.00052 | 336.31 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00061** | **.00326** | **.05377** | **22.683** | **1.5147** | **161.68** | **.10779** | **.00284** |
| Stddev | .00021 | .00006 | .00001 | .00033 | .119 | .0064 | .19 | .00010 | .00012 |
| %RSD | 40.964 | 9.6477 | .15986 | .60973 | .52293 | .42529 | .11958 | .09723 | 4.0733 |
| #1 | .00036 | .00057 | .00326 | .05401 | 22.599 | 1.5101 | 161.55 | .10787 | .00276 |
| #2 | .00066 | .00065 | .00327 | .05354 | 22.767 | 1.5192 | 161.82 | .10772 | .00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.739** | **.00913** | **.20567** | **.00180** | **398.10** | **.00075** | **.01797** | **7.1540** | **.00012** |
| Stddev | .230 | .00025 | .00051 | .00042 | .29 | .00039 | .00110 | .0233 | .00031 |
| %RSD | .46276 | 2.7667 | .24624 | 23.193 | .07301 | 51.726 | 6.1232 | .32626 | 265.30 |
| #1 | 49.902 | .00930 | .20603 | .00151 | 398.31 | .00048 | .01875 | 7.1375 | -.00010 |
| #2 | 49.576 | .00895 | .20531 | .00210 | 397.89 | .00103 | .01719 | 7.1705 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7205** | **.00007** | **.00091** | **.00027** | **-.04604** | **-.00060** | **2.2055** | **.00437** |
| Stddev | .0073 | .00027 | .00041 | .00052 | .01615 | .00009 | .0043 | .00133 |
| %RSD | .26706 | 388.10 | 44.584 | 196.81 | 35.083 | 15.616 | .19326 | 30.430 |
| #1 | 2.7154 | -.00012 | .00062 | .00064 | -.03462 | -.00067 | 2.2085 | .00343 |
| #2 | 2.7257 | .00027 | .00120 | -.00010 | -.05746 | -.00054 | 2.2025 | .00531 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5539.2** | **72319.** | **4310.6** |
| Stddev | 3.8 | 67. | 8.3 |
| %RSD | .06890 | .09245 | .19364 |
| #1 | 5541.9 | 72366. | 4316.5 |
| #2 | 5536.5 | 72272. | 4304.7 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 0:07:03 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01182** | **47.365** | k **.00020** | **.01873** | k **-.00045** | k **-.00014** | k **.96731** | k **.02598** | k **-.00073** | k **.00220** | k **.00056** | k **.01023** |
| Stddev | .00035 | .233 | .00046 | .00147 | .00033 | .00014 | .00406 | .02258 | .00003 | .00010 | .00036 | .00018 |
| %RSD | 2.9808 | .49118 | 226.17 | 7.8514 | 74.733 | 100.59 | .41964 | 86.922 | 3.6510 | 4.7434 | 63.616 | 1.7587 |
| #1 | k .01157 | 47.200 | k -.00012 | .01977 | k -.00068 | k -.00004 | k .96444 | k .04195 | k -.00071 | k .00212 | k .00031 | k .01036 |
| #2 | k .01207 | 47.529 | k .00053 | .01769 | k -.00021 | k -.00024 | k .97018 | k .01001 | k -.00075 | k .00227 | k .00081 | k .01011 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.822** | **.11638** | k **-.00262** | k **-.19088** | **-.00002** | **-.00219** | **269.42** | **.00136** | **.00642** | k **.00825** | **5.2956** | k **-.02221** |
| Stddev | .083 | .01304 | .00049 | .00149 | .00003 | .00012 | 1.36 | .00022 | .00005 | .00045 | .0126 | .00138 |
| %RSD | .18451 | 11.206 | 18.600 | .77811 | 143.58 | 5.2746 | .50546 | 15.863 | .85229 | 5.4726 | .23827 | 6.1998 |
| #1 | k 44.880 | .10716 | k -.00228 | k -.18983 | -.00004 | -.00211 | 268.46 | .00121 | .00645 | k .00793 | 5.2867 | k -.02123 |
| #2 | k 44.764 | .12560 | k -.00297 | k -.19193 | .00000 | -.00227 | 270.38 | .00152 | .00638 | k .00857 | 5.3045 | k -.02318 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01368** | k **.01656** | k **.00102** | **.00071** | k **5.2515** | k **.01481** | k **-.00541** | k **9.9001** | k **-.00016** | k **.00392** | k **.20730** |
| Stddev | .00091 | .00668 | .00004 | .00000 | .0050 | .00001 | .00134 | .0544 | .00006 | .00019 | .00222 |
| %RSD | 6.6280 | 40.320 | 3.5051 | .50875 | .09492 | .08285 | 24.852 | .54947 | 38.705 | 4.8708 | 1.0724 |
| #1 | k -.01433 | k .01184 | k .00099 | .00072 | k 5.2480 | k .01482 | k -.00636 | k 9.8617 | k -.00012 | .00379 | k .20887 |
| #2 | k -.01304 | k .02128 | k .00104 | .00071 | k 5.2550 | k .01480 | k -.00446 | k 9.9386 | k -.00020 | k .00406 | k .20573 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5678.3** | **72194.** | **4259.0** |
| Stddev | 4.1 | 179. | 5.1 |
| %RSD | .07295 | .24727 | .11942 |
| #1 | 5681.3 | 72320. | 4262.6 |
| #2 | 5675.4 | 72068. | 4255.4 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 0:09:26 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50269** | **.48794** | **1.0089** | **.52390** | **.50421** | **.46709** | **.00023** | **4.7486** | **.49714** | **.50543** | **.49479** | **.49214** |
| Stddev | .00141 | .00018 | .0018 | .00195 | .00431 | .00461 | .00386 | .0054 | .00098 | .00023 | .00016 | .00188 |
| %RSD | .28026 | .03747 | .18224 | .37151 | .85487 | .98740 | 1648.4 | .11380 | .19643 | .04503 | .03217 | .38179 |
| #1 | .50369 | .48807 | 1.0076 | .52253 | .50726 | .47036 | .00296 | 4.7448 | .49645 | .50527 | .49468 | .49347 |
| #2 | .50170 | .48781 | 1.0102 | .52528 | .50117 | .46383 | -.00249 | 4.7525 | .49783 | .50559 | .49490 | .49081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2106** | **53.143** | **1.0623** | **19.616** | **.49884** | **.48898** | **5.1705** | **.50271** | **1.0184** | **.99736** | **.07393** | **.99902** |
| Stddev | .0034 | .350 | .0122 | .067 | .00186 | .00019 | .0704 | .00053 | .0011 | .00137 | .00243 | .00262 |
| %RSD | .15576 | .65875 | 1.1522 | .33978 | .37260 | .03896 | 1.3610 | .10548 | .10919 | .13740 | 3.2925 | .26227 |
| #1 | 2.2130 | 53.391 | 1.0709 | 19.663 | .50016 | .48912 | 5.2203 | .50309 | 1.0192 | .99833 | .07566 | 1.0009 |
| #2 | 2.2081 | 52.896 | 1.0536 | 19.569 | .49753 | .48885 | 5.1207 | .50234 | 1.0176 | .99639 | .07221 | .99717 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0246** | **4.5316** | **.97443** | **.50963** | **.00076** | **.49399** | **.96087** | **-.00029** | **.49240** | **.49213** | **.47669** |
| Stddev | .0011 | .0285 | .00074 | .00373 | .00040 | .00256 | .00087 | .03826 | .00289 | .00159 | .00043 |
| %RSD | .10993 | .62886 | .07575 | .73287 | 52.138 | .51791 | .09051 | 13350. | .58674 | .32268 | .09002 |
| #1 | 1.0254 | 4.5115 | .97495 | .51227 | .00048 | .49580 | .96149 | -.02734 | .49445 | .49325 | .47699 |
| #2 | 1.0238 | 4.5518 | .97390 | .50699 | .00104 | .49218 | .96026 | .02677 | .49036 | .49101 | .47639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5733.1** | **72689.** | **4225.2** |
| Stddev | 10.2 | 185. | 40.8 |
| %RSD | .17830 | .25459 | .96528 |
| #1 | 5725.9 | 72558. | 4196.4 |
| #2 | 5740.4 | 72820. | 4254.1 |

Sample Name: CCB Acquired: 5/17/2013 0:11:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **-.00026** | **.00048** | F **.00879** | W **-.00059** | **.00002** | **.00215** | **-.00037** | **-.00005** | **.00045** | **.00012** |
| Stddev | .00021 | .00027 | .00026 | .00088 | .00011 | .00005 | .00493 | .00498 | .00014 | .00015 | .00017 |
| %RSD | 35.901 | 102.59 | 54.292 | 10.026 | 18.358 | 269.00 | 229.44 | 1337.0 | 288.78 | 33.264 | 142.94 |
| #1 | .00073 | -.00007 | .00067 | .00942 | -.00051 | .00005 | .00564 | -.00389 | -.00015 | .00056 | -.00000 |
| #2 | .00043 | -.00045 | .00030 | .00817 | -.00066 | -.00002 | -.00134 | .00315 | .00005 | .00035 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **-.00417** | **.05944** | W **-.00307** | **.00210** | **-.00017** | **-.00019** | **.00815** | **.00020** | **.00044** | **-.00072** |
| Stddev | .00022 | .00082 | .01434 | .00328 | .00106 | .00002 | .00026 | .00228 | .00005 | .00009 | .00013 |
| %RSD | 34.492 | 19.534 | 24.120 | 106.95 | 50.362 | 9.3276 | 135.11 | 27.943 | 22.545 | 19.244 | 18.621 |
| #1 | -.00078 | -.00360 | .06958 | -.00538 | .00135 | -.00015 | -.00037 | .00977 | .00017 | .00051 | -.00062 |
| #2 | -.00047 | -.00475 | .04930 | -.00075 | .00284 | -.00018 | -.00001 | .00654 | .00023 | .00038 | -.00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06307** | **-.00149** | **.00318** | **-.00420** | **.00040** | **.00012** | **.00050** | **-.00037** | **-.00097** | **-.00172** | W **-.00125** |
| Stddev | .00450 | .00078 | .00285 | .00548 | .00019 | .00005 | .00093 | .00042 | .00089 | .01223 | .00042 |
| %RSD | 7.1330 | 52.059 | 89.526 | 130.59 | 46.500 | 39.357 | 188.38 | 113.69 | 92.149 | 710.30 | 33.651 |
| #1 | .06625 | -.00204 | .00117 | -.00032 | .00054 | .00015 | .00115 | -.00007 | -.00034 | -.01037 | -.00155 |
| #2 | .05989 | -.00094 | .00520 | -.00808 | .00027 | .00008 | -.00016 | -.00066 | -.00160 | .00693 | -.00095 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00322** | **.00153** |
| Stddev | .00008 | .00044 |
| %RSD | 2.5316 | 29.083 |
| #1 | .00328 | .00184 |
| #2 | .00316 | .00121 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5816.6** | **73780.** | **4245.6** |
| Stddev | 8.0 | 239. | 2.4 |
| %RSD | .13750 | .32332 | .05767 |
| #1 | 5822.3 | 73611. | 4243.8 |
| #2 | 5811.0 | 73949. | 4247.3 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 0:14:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01122** | **.10278** | W **.01801** | **.11086** | **.00933** | **.00091** | **.10614** | **.19307** | **.00495** | **.01078** | **.01027** |
| Stddev | .00089 | .00017 | .00151 | .00013 | .00025 | .00013 | .00030 | .00349 | .00011 | .00012 | .00006 |
| %RSD | 7.9166 | .16890 | 8.3586 | .11745 | 2.6428 | 14.786 | .28289 | 1.8054 | 2.1608 | 1.1394 | .60633 |
| #1 | .01060 | .10291 | .01907 | .11095 | .00915 | .00101 | .10593 | .19060 | .00503 | .01069 | .01022 |
| #2 | .01185 | .10266 | .01694 | .11077 | .00950 | .00082 | .10635 | .19553 | .00487 | .01086 | .01031 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01398** | **.09061** | **3.3370** | **.00958** | **.20444** | **.01014** | **.01917** | **1.0805** | **.04114** | **3.0293** | **.00839** |
| Stddev | .00046 | .00490 | .0333 | .00111 | .00198 | .00001 | .00014 | .0071 | .00024 | .0118 | .00068 |
| %RSD | 3.2596 | 5.4066 | .99933 | 11.588 | .96953 | .14105 | .70882 | .65621 | .57882 | .38927 | 8.1591 |
| #1 | .01366 | .09407 | 3.3605 | .01036 | .20304 | .01015 | .01926 | 1.0755 | .04097 | 3.0376 | .00888 |
| #2 | .01430 | .08714 | 3.3134 | .00879 | .20584 | .01013 | .01907 | 1.0856 | .04131 | 3.0210 | .00791 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04845** | W **.00733** | F **.02015** | **.46908** | **.09884** | **.01036** | **.01626** | **.00965** | **.01355** | F **.03016** | **.00866** |
| Stddev | .00325 | .00016 | .00276 | .00749 | .00056 | .00005 | .00328 | .00039 | .00013 | .02858 | .00009 |
| %RSD | 6.7093 | 2.1384 | 13.712 | 1.5961 | .56979 | .44239 | 20.152 | 4.0406 | .97271 | 94.761 | .98726 |
| #1 | .05075 | .00745 | .02210 | .47437 | .09844 | .01033 | .01394 | .00993 | .01346 | .00995 | .00860 |
| #2 | .04615 | .00722 | .01820 | .46378 | .09924 | .01040 | .01857 | .00938 | .01365 | .05036 | .00872 |
| Check ? | None | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | .01500 | | | | | | | .06000 | |
| Range | | -20.000% | 30.000% | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02512** | **.01682** |
| Stddev | .00000 | .00084 |
| %RSD | .01864 | 5.0053 |
| #1 | .02512 | .01742 |
| #2 | .02512 | .01623 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5848.4** | **73939.** | **4254.2** |
| Stddev | 7.0 | 39. | 5.5 |
| %RSD | .11979 | .05213 | .13006 |
| #1 | 5853.4 | 73911. | 4250.3 |
| #2 | 5843.4 | 73966. | 4258.1 |

Sample Name: 280-42191-A-66-A  Acquired: 5/17/2013 0:16:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00949** | **.00705** | **.00697** | **1.5164** | **.02191** | **.00005** | **.07202** | **61.018** | **.00552** |
| Stddev | .00045 | .00009 | .00336 | .0034 | .00018 | .00007 | .00355 | .074 | .00008 |
| %RSD | 4.7233 | 1.3301 | 48.190 | .22250 | .83835 | 137.50 | 4.9322 | .12093 | 1.4701 |
| #1 | .00980 | .00712 | .00934 | 1.5188 | .02204 | .00010 | .06951 | 60.966 | .00546 |
| #2 | .00917 | .00699 | .00459 | 1.5140 | .02178 | .00000 | .07453 | 61.070 | .00557 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00327** | **.00016** | **.72023** | **.10152** | **14.983** | **.11096** | **9.5422** | **.03925** | **.06632** |
| Stddev | .00003 | .00000 | .00047 | .00297 | .062 | .00302 | .0068 | .00006 | .00035 |
| %RSD | 1.0644 | 1.4836 | .06465 | 2.9272 | .41454 | 2.7251 | .07087 | .14866 | .53255 |
| #1 | .00325 | .00016 | .71990 | .09942 | 14.939 | .10883 | 9.5470 | .03921 | .06657 |
| #2 | .00330 | .00016 | .72056 | .10362 | 15.027 | .11310 | 9.5374 | .03929 | .06607 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **336.26** | **.02210** | **.19782** | **2.7297** | **341.42** | **.01569** | **.00711** | **.17520** | **.87039** |
| Stddev | .32 | .00050 | .00003 | .0029 | .23 | .00415 | .00157 | .00482 | .00194 |
| %RSD | .09491 | 2.2396 | .01366 | .10614 | .06723 | 26.467 | 22.048 | 2.7522 | .22275 |
| #1 | 336.49 | .02175 | .19784 | 2.7318 | 341.58 | .01275 | .00822 | .17861 | .87176 |
| #2 | 336.04 | .02245 | .19780 | 2.7277 | 341.25 | .01863 | .00600 | .17179 | .86902 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43617** | **.00060** | **.00008** | **.00121** | **.00215** | **.00012** | F **70.099** | **.00280** |
| Stddev | .00032 | .00105 | .00034 | .00008 | .03155 | .00001 | .036 | .00000 |
| %RSD | .07430 | 174.24 | 443.63 | 6.9688 | 1470.2 | 7.6436 | .05199 | .16337 |
| #1 | .43640 | .00135 | -.00016 | .00115 | -.02016 | .00011 | 70.125 | .00279 |
| #2 | .43594 | -.00014 | .00032 | .00127 | .02446 | .00013 | 70.074 | .00280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5585.0** | **71332.** | **4222.2** |
| Stddev | 8.7 | 2. | 21.2 |
| %RSD | .15551 | .00260 | .50309 |
| #1 | 5578.8 | 71331. | 4237.2 |
| #2 | 5591.1 | 71333. | 4207.2 |

Sample Name: 280-42191-A-67-A  Acquired: 5/17/2013 0:19:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **.01659** | **.00134** | **2.6474** | **.07999** | **-.00014** | **-.00381** | **164.15** | **.00184** |
| Stddev | .00020 | .00048 | .00232 | .0012 | .00106 | .00014 | .00220 | .26 | .00016 |
| %RSD | 22.315 | 2.9029 | 173.18 | .04361 | 1.3270 | 94.896 | 57.680 | .15914 | 8.8895 |
| #1 | .00104 | .01693 | .00298 | 2.6466 | .08074 | -.00024 | -.00226 | 164.33 | .00173 |
| #2 | .00076 | .01625 | -.00030 | 2.6482 | .07923 | -.00005 | -.00536 | 163.96 | .00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00191** | **.00097** | **.01570** | **.11655** | **15.070** | **.09806** | **34.926** | **.52058** | **.01461** |
| Stddev | .00048 | .00001 | .00005 | .00266 | .031 | .00020 | .026 | .00010 | .00005 |
| %RSD | 25.167 | .98478 | .32337 | 2.2857 | .20552 | .20610 | .07460 | .01914 | .34047 |
| #1 | .00225 | .00097 | .01574 | .11467 | 15.092 | .09821 | 34.944 | .52065 | .01465 |
| #2 | .00157 | .00096 | .01567 | .11843 | 15.048 | .09792 | 34.907 | .52051 | .01458 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.591** | **.00995** | **.17501** | **.00529** | **101.85** | **-.00078** | **.00327** | **8.2945** | **.00201** |
| Stddev | .313 | .00019 | .00096 | .00048 | .01 | .00064 | .00239 | .0049 | .00046 |
| %RSD | 1.0593 | 1.8603 | .54948 | 9.1440 | .00968 | 81.720 | 73.174 | .05888 | 22.786 |
| #1 | 29.369 | .01008 | .17433 | .00564 | 101.86 | -.00033 | .00496 | 8.2911 | .00233 |
| #2 | 29.812 | .00982 | .17569 | .00495 | 101.84 | -.00123 | .00158 | 8.2980 | .00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.66184** | **-.00079** | **.00085** | **-.00080** | **-.03979** | **.00039** | **4.1451** | **.00144** |
| Stddev | .00102 | .00223 | .00003 | .00046 | .00253 | .00053 | .0052 | .00126 |
| %RSD | .15387 | 283.18 | 3.5702 | 58.050 | 6.3656 | 134.18 | .12507 | 87.617 |
| #1 | .66256 | -.00236 | .00083 | -.00047 | -.03800 | .00077 | 4.1488 | .00055 |
| #2 | .66112 | .00079 | .00087 | -.00113 | -.04158 | .00002 | 4.1415 | .00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5612.0** | **71894.** | **4223.7** |
| Stddev | 1.3 | 83. | 18.0 |
| %RSD | .02260 | .11604 | .42500 |
| #1 | 5611.1 | 71835. | 4211.1 |
| #2 | 5612.9 | 71953. | 4236.4 |

Sample Name: 280-42191-A-68-A  Acquired: 5/17/2013 0:21:27  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.02720** | **.00230** | **2.5952** | **.07712** | **-.00019** | **-.00061** | **158.84** | **.00171** |
| Stddev | .00054 | .00023 | .00336 | .0015 | .00008 | .00012 | .00269 | .17 | .00024 |
| %RSD | 36.717 | .85801 | 145.87 | .05670 | .10259 | 64.213 | 438.64 | .10554 | 14.223 |
| #1 | .00110 | .02704 | -.00007 | 2.5962 | .07717 | -.00010 | .00129 | 158.96 | .00189 |
| #2 | .00186 | .02737 | .00468 | 2.5941 | .07706 | -.00027 | -.00251 | 158.72 | .00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **.00104** | **.01538** | **.11692** | **14.607** | **.09450** | **34.262** | **.51081** | **.01429** |
| Stddev | .00007 | .00010 | .00031 | .00068 | .079 | .00159 | .047 | .00030 | .00013 |
| %RSD | 5.0962 | 9.8580 | 1.9902 | .58181 | .53847 | 1.6823 | .13655 | .05862 | .89098 |
| #1 | .00143 | .00097 | .01517 | .11740 | 14.663 | .09338 | 34.295 | .51102 | .01438 |
| #2 | .00133 | .00111 | .01560 | .11644 | 14.552 | .09563 | 34.229 | .51060 | .01420 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.113** | **.00961** | **.19105** | **.00371** | **99.697** | **-.00197** | **.00271** | **8.0959** | **.00004** |
| Stddev | .225 | .00035 | .00357 | .00088 | .024 | .00286 | .00161 | .0125 | .00024 |
| %RSD | .77244 | 3.6429 | 1.8684 | 23.815 | .02375 | 145.21 | 59.381 | .15392 | 616.97 |
| #1 | 29.272 | .00985 | .18852 | .00308 | 99.713 | .00005 | .00385 | 8.1047 | -.00013 |
| #2 | 28.954 | .00936 | .19357 | .00433 | 99.680 | -.00399 | .00157 | 8.0870 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64030** | **.00082** | **.00093** | **-.00006** | **-.02794** | **-.00031** | **4.0720** | **.00436** |
| Stddev | .00016 | .00032 | .00003 | .00070 | .03158 | .00066 | .0078 | .00109 |
| %RSD | .02532 | 38.971 | 3.3399 | 1088.8 | 113.04 | 212.84 | .19151 | 24.917 |
| #1 | .64018 | .00104 | .00095 | .00043 | -.00561 | -.00078 | 4.0775 | .00512 |
| #2 | .64041 | .00059 | .00091 | -.00056 | -.05027 | .00016 | 4.0665 | .00359 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5616.7** | **71933.** | **4249.0** |
| Stddev | 3.8 | 285. | 7.2 |
| %RSD | .06705 | .39655 | .16829 |
| #1 | 5614.1 | 71732. | 4243.9 |
| #2 | 5619.4 | 72135. | 4254.0 |

Sample Name: 280-42191-A-69-A  Acquired: 5/17/2013 0:23:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **.03850** | **.00225** | **1.9073** | **.02723** | **-.00011** | **-.00077** | **167.01** | **.00976** |
| Stddev | .00016 | .00058 | .00026 | .0014 | .00005 | .00005 | .00187 | .10 | .00004 |
| %RSD | 11.960 | 1.5058 | 11.579 | .07490 | .16611 | 46.279 | 243.76 | .06144 | .39139 |
| #1 | .00141 | .03891 | .00243 | 1.9083 | .02720 | -.00015 | .00055 | 166.93 | .00973 |
| #2 | .00119 | .03809 | .00206 | 1.9063 | .02727 | -.00008 | -.00209 | 167.08 | .00978 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00152** | **.00046** | **1.1186** | **.17454** | **24.317** | **.11979** | **11.120** | **.20628** | **.06391** |
| Stddev | .00008 | .00011 | .0041 | .00195 | .044 | .00002 | .045 | .00090 | .00033 |
| %RSD | 5.2260 | 24.404 | .36363 | 1.1157 | .18015 | .01386 | .40739 | .43404 | .52178 |
| #1 | .00147 | .00038 | 1.1157 | .17592 | 24.348 | .11980 | 11.088 | .20565 | .06367 |
| #2 | .00158 | .00054 | 1.1215 | .17316 | 24.286 | .11978 | 11.152 | .20691 | .06414 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **123.85** | **.00574** | **.19727** | **.02140** | **246.65** | **-.00152** | **.00511** | **5.9410** | **.00468** |
| Stddev | .29 | .00025 | .00288 | .00183 | .00 | .00003 | .00083 | .0227 | .00088 |
| %RSD | .23441 | 4.3088 | 1.4577 | 8.5655 | .00127 | 2.0280 | 16.325 | .38189 | 18.810 |
| #1 | 124.05 | .00592 | .19523 | .02270 | 246.65 | -.00150 | .00570 | 5.9571 | .00530 |
| #2 | 123.64 | .00557 | .19930 | .02010 | 246.65 | -.00154 | .00452 | 5.9250 | .00405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76014** | **.00175** | **.00251** | **-.00024** | **-.04824** | **-.00026** | W **48.620** | **.00151** |
| Stddev | .00024 | .00140 | .00049 | .00166 | .00276 | .00041 | .190 | .00301 |
| %RSD | .03219 | 79.969 | 19.668 | 703.81 | 5.7226 | 154.65 | .39123 | 199.22 |
| #1 | .75996 | .00274 | .00216 | .00094 | -.05019 | .00002 | 48.485 | -.00062 |
| #2 | .76031 | .00076 | .00286 | -.00141 | -.04628 | -.00055 | 48.754 | .00364 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5618.2** | **72439.** | **4264.9** |
| Stddev | 5.4 | 316. | 18.4 |
| %RSD | .09539 | .43578 | .43101 |
| #1 | 5622.0 | 72663. | 4251.9 |
| #2 | 5614.4 | 72216. | 4277.9 |

Sample Name: 280-42191-A-70-A  Acquired: 5/17/2013 0:26:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **.05697** | **.02179** | **1.8308** | **.04693** | **-.00008** | **-.00396** | **207.36** | **.00180** |
| Stddev | .00066 | .00019 | .00131 | .0025 | .00019 | .00005 | .00168 | .84 | .00009 |
| %RSD | 61.072 | .32715 | 6.0027 | .13463 | .40371 | 62.644 | 42.316 | .40559 | 5.0440 |
| #1 | .00155 | .05710 | .02272 | 1.8291 | .04706 | -.00011 | -.00515 | 206.77 | .00174 |
| #2 | .00062 | .05684 | .02087 | 1.8326 | .04679 | -.00004 | -.00278 | 207.96 | .00187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **.00049** | **.01994** | **4.8836** | **79.406** | **.08077** | **76.553** | **.10500** | **.39203** |
| Stddev | .00027 | .00004 | .00073 | .0018 | .421 | .00154 | .214 | .00033 | .00038 |
| %RSD | 13.389 | 9.0584 | 3.6531 | .03691 | .52986 | 1.9059 | .27904 | .31824 | .09570 |
| #1 | .00218 | .00046 | .01942 | 4.8849 | 79.108 | .08185 | 76.704 | .10524 | .39176 |
| #2 | .00181 | .00052 | .02045 | 4.8823 | 79.703 | .07968 | 76.402 | .10477 | .39229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **132.47** | **.05460** | **.16112** | **.00273** | **404.42** | **.00081** | **.00327** | **2.9974** | **.00026** |
| Stddev | .52 | .00017 | .00098 | .00037 | .28 | .00114 | .00081 | .0016 | .00037 |
| %RSD | .39533 | .31806 | .60639 | 13.728 | .06865 | 140.92 | 24.883 | .05401 | 140.46 |
| #1 | 132.10 | .05448 | .16181 | .00247 | 404.23 | .00162 | .00269 | 2.9962 | .00052 |
| #2 | 132.84 | .05472 | .16042 | .00300 | 404.62 | .00000 | .00384 | 2.9985 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0971** | **.00246** | **.00174** | **-.00013** | **-.03092** | **-.00054** | W **15.426** | **.00438** |
| Stddev | .0044 | .00105 | .00009 | .00206 | .02306 | .00085 | .046 | .00189 |
| %RSD | .39783 | 42.880 | 4.8899 | 1546.0 | 74.593 | 156.92 | .30051 | 43.199 |
| #1 | 1.0940 | .00171 | .00168 | .00132 | -.04723 | -.00114 | 15.458 | .00304 |
| #2 | 1.1002 | .00320 | .00180 | -.00159 | -.01461 | .00006 | 15.393 | .00572 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5505.3** | **70689.** | **4187.8** |
| Stddev | 8.9 | 144. | 4.7 |
| %RSD | .16182 | .20354 | .11273 |
| #1 | 5511.6 | 70587. | 4184.4 |
| #2 | 5499.0 | 70790. | 4191.1 |

Sample Name: 280-42191-A-71-A Acquired: 5/17/2013 0:28:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **.00102** | **.00526** | **2.4478** | **.04588** | **-.00011** | **-.00250** | **290.45** | **.00036** |
| Stddev | .00008 | .00016 | .00292 | .0027 | .00001 | .00003 | .00051 | 1.36 | .00001 |
| %RSD | 9.6718 | 15.917 | 55.464 | .10993 | .01181 | 25.425 | 20.359 | .46688 | 2.0101 |
| #1 | .00093 | .00114 | .00733 | 2.4459 | .04588 | -.00009 | -.00286 | 289.50 | .00036 |
| #2 | .00081 | .00091 | .00320 | 2.4497 | .04588 | -.00013 | -.00214 | 291.41 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00509** | **.00768** | **.08186** | **1.4733** | **55.202** | **.07293** | **93.182** | **.32072** | **.12366** |
| Stddev | .00025 | .00001 | .00019 | .0032 | .239 | .00094 | .153 | .00092 | .00026 |
| %RSD | 4.8445 | .18836 | .23628 | .21603 | .43234 | 1.2951 | .16385 | .28786 | .21101 |
| #1 | .00527 | .00769 | .08172 | 1.4710 | 55.033 | .07360 | 93.074 | .32007 | .12384 |
| #2 | .00492 | .00767 | .08200 | 1.4755 | 55.371 | .07226 | 93.290 | .32137 | .12347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **102.47** | **.05281** | **.15936** | **.02095** | **289.66** | **-.00050** | **.00242** | **3.4152** | **.00657** |
| Stddev | .27 | .00022 | .00106 | .00089 | .31 | .00086 | .00318 | .0101 | .00040 |
| %RSD | .26278 | .41655 | .66231 | 4.2264 | .10561 | 172.78 | 131.41 | .29577 | 6.1374 |
| #1 | 102.28 | .05266 | .15861 | .02032 | 289.44 | -.00111 | .00017 | 3.4224 | .00686 |
| #2 | 102.66 | .05297 | .16010 | .02158 | 289.87 | .00011 | .00467 | 3.4081 | .00629 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0322** | **.00095** | **.00104** | **.00165** | **-.04839** | **-.00016** | **.95319** | **.00263** |
| Stddev | .0051 | .00284 | .00025 | .00078 | .07030 | .00003 | .00594 | .00167 |
| %RSD | .49068 | 299.87 | 24.036 | 47.080 | 145.26 | 16.981 | .62338 | 63.691 |
| #1 | 1.0286 | -.00106 | .00122 | .00220 | .00132 | -.00018 | .94898 | .00144 |
| #2 | 1.0358 | .00296 | .00087 | .00110 | -.09810 | -.00014 | .95739 | .00381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5473.2** | **70651.** | **4155.9** |
| Stddev | 6.1 | 234. | 26.4 |
| %RSD | .11127 | .33072 | .63533 |
| #1 | 5477.6 | 70816. | 4174.6 |
| #2 | 5468.9 | 70486. | 4137.2 |

Sample Name: 280-42191-A-72-A  Acquired: 5/17/2013 0:30:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00126** | **.20578** | **.00121** | **3.6975** | **.05319** | **-.00011** | **-.00520** | **285.67** | **.01399** |
| Stddev | .00043 | .00021 | .00121 | .0065 | .00008 | .00004 | .00089 | .91 | .00005 |
| %RSD | 33.972 | .10201 | 99.653 | .17479 | .14761 | 36.995 | 17.078 | .31885 | .35360 |
| #1 | .00096 | .20592 | .00206 | 3.6929 | .05313 | -.00014 | -.00457 | 286.31 | .01396 |
| #2 | .00156 | .20563 | .00036 | 3.7020 | .05324 | -.00008 | -.00582 | 285.02 | .01403 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00206** | **.00208** | **.02767** | **.51508** | **23.201** | **.55388** | **64.908** | **.50399** | **.00640** |
| Stddev | .00019 | .00014 | .00021 | .00005 | .002 | .00097 | .025 | .00052 | .00002 |
| %RSD | 9.4758 | 6.8096 | .76396 | .00915 | .00759 | .17532 | .03823 | .10233 | .29498 |
| #1 | .00219 | .00198 | .02752 | .51505 | 23.200 | .55320 | 64.891 | .50436 | .00642 |
| #2 | .00192 | .00218 | .02781 | .51512 | 23.203 | .55457 | 64.926 | .50363 | .00639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **36.617** | **.01981** | **.22191** | **.05678** | **231.33** | **.00072** | **.00344** | **9.6703** | **.00014** |
| Stddev | .375 | .00006 | .00078 | .00201 | .25 | .00061 | .00351 | .0149 | .00065 |
| %RSD | 1.0230 | .31926 | .34981 | 3.5397 | .10941 | 84.912 | 101.92 | .15407 | 477.53 |
| #1 | 36.882 | .01977 | .22136 | .05820 | 231.16 | .00115 | .00593 | 9.6597 | -.00032 |
| #2 | 36.352 | .01986 | .22246 | .05536 | 231.51 | .00029 | .00096 | 9.6808 | .00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7395** | **.00342** | **.00762** | **-.00207** | W **-.09530** | **.00043** | W **10.853** | **.00352** |
| Stddev | .0013 | .00273 | .00021 | .00052 | .05089 | .00037 | .022 | .00307 |
| %RSD | .07194 | 79.935 | 2.8067 | 25.269 | 53.401 | 85.068 | .20702 | 87.185 |
| #1 | 1.7404 | .00149 | .00747 | -.00170 | -.05931 | .00017 | 10.869 | .00135 |
| #2 | 1.7386 | .00535 | .00777 | -.00244 | -.13128 | .00069 | 10.837 | .00570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 45.000 | | 10.000 | |
| Low Limit | | | | | -.05000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5603.8** | **72765.** | **4279.9** |
| Stddev | 6.2 | 183. | 25.9 |
| %RSD | .11078 | .25110 | .60469 |
| #1 | 5599.4 | 72636. | 4261.6 |
| #2 | 5608.2 | 72894. | 4298.2 |

Sample Name: 280-42191-A-73-A  Acquired: 5/17/2013 0:33:20  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00157** | **.35227** | **.01222** | **1.8322** | **.08934** | **.00005** | **-.00592** | **188.43** | **.00922** |
| Stddev | .00010 | .00178 | .00157 | .0043 | .00072 | .00004 | .00125 | .70 | .00015 |
| %RSD | 6.2365 | .50561 | 12.835 | .23348 | .80039 | 75.030 | 21.066 | .37337 | 1.6599 |
| #1 | .00150 | .35353 | .01111 | 1.8353 | .08883 | .00007 | -.00681 | 187.94 | .00911 |
| #2 | .00164 | .35101 | .01332 | 1.8292 | .08984 | .00002 | -.00504 | 188.93 | .00932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00127** | **.00397** | **.04749** | **19.651** | **15.115** | **.11390** | **39.173** | **.31849** | **.00312** |
| Stddev | .00008 | .00047 | .00014 | .061 | .009 | .00219 | .136 | .00143 | .00009 |
| %RSD | 6.6458 | 11.863 | .29636 | .30909 | .05676 | 1.9268 | .34758 | .44980 | 3.0275 |
| #1 | .00132 | .00431 | .04739 | 19.608 | 15.109 | .11546 | 39.077 | .31748 | .00306 |
| #2 | .00121 | .00364 | .04759 | 19.694 | 15.121 | .11235 | 39.269 | .31950 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.220** | **.01017** | **.51487** | **4.4732** | **118.79** | **-.00082** | **.00358** | **12.177** | **.00048** |
| Stddev | .215 | .00001 | .00408 | .0166 | .30 | .00232 | .00442 | .006 | .00049 |
| %RSD | 1.0608 | .05924 | .79299 | .37090 | .24955 | 284.59 | 123.61 | .04534 | 102.54 |
| #1 | 20.372 | .01017 | .51775 | 4.4849 | 119.00 | .00083 | .00045 | 12.173 | .00083 |
| #2 | 20.068 | .01017 | .51198 | 4.4614 | 118.58 | -.00246 | .00671 | 12.181 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2552** | **.00804** | **.00955** | **-.00097** | W **-.05658** | **.00605** | **6.9122** | **.00302** |
| Stddev | .0055 | .00067 | .00097 | .00098 | .02167 | .00040 | .0234 | .00076 |
| %RSD | .44080 | 8.3820 | 10.142 | 100.92 | 38.295 | 6.5901 | .33795 | 24.970 |
| #1 | 1.2513 | .00756 | .00887 | -.00166 | -.07189 | .00577 | 6.8957 | .00249 |
| #2 | 1.2591 | .00852 | .01024 | -.00028 | -.04126 | .00633 | 6.9288 | .00356 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5709.3** | **73310.** | **4312.6** |
| Stddev | 25.9 | 93. | 5.5 |
| %RSD | .45284 | .12746 | .12730 |
| #1 | 5691.0 | 73376. | 4308.7 |
| #2 | 5727.6 | 73244. | 4316.4 |

Sample Name: 280-42191-A-74-A  Acquired: 5/17/2013 0:35:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.00253** | **.00009** | **2.8788** | **.04425** | **-.00006** | **-.00143** | **175.33** | **.00167** |
| Stddev | .00055 | .00006 | .00166 | .0019 | .00006 | .00010 | .00116 | .73 | .00005 |
| %RSD | 43.836 | 2.3381 | 1950.5 | .06500 | .13709 | 169.07 | 80.917 | .41645 | 2.8084 |
| #1 | .00164 | .00257 | .00126 | 2.8775 | .04429 | -.00013 | -.00061 | 174.81 | .00163 |
| #2 | .00086 | .00249 | -.00109 | 2.8801 | .04420 | .00001 | -.00225 | 175.85 | .00170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00169** | **.00035** | **.03003** | **.07538** | **10.715** | **.11750** | **37.955** | **.41668** | **.00192** |
| Stddev | .00009 | .00015 | .00022 | .00394 | .054 | .00072 | .123 | .00066 | .00008 |
| %RSD | 5.4905 | 42.688 | .72524 | 5.2278 | .50588 | .60912 | .32450 | .15764 | 4.3604 |
| #1 | .00176 | .00046 | .02988 | .07259 | 10.676 | .11700 | 38.042 | .41714 | .00198 |
| #2 | .00163 | .00025 | .03019 | .07817 | 10.753 | .11801 | 37.868 | .41621 | .00186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.239** | **.01897** | **.20629** | **.00467** | **111.35** | **.00036** | **-.00116** | **8.0546** | **-.00017** |
| Stddev | .136 | .00003 | .00138 | .00160 | .05 | .00125 | .00091 | .0226 | .00055 |
| %RSD | .67226 | .18298 | .67132 | 34.214 | .04932 | 350.64 | 78.237 | .28013 | 329.73 |
| #1 | 20.143 | .01900 | .20727 | .00580 | 111.39 | -.00053 | -.00052 | 8.0706 | -.00056 |
| #2 | 20.335 | .01895 | .20532 | .00354 | 111.31 | .00124 | -.00181 | 8.0387 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.84810** | **-.00052** | **.00068** | **-.00070** | W **-.05896** | **-.00055** | **.43393** | **.00418** |
| Stddev | .00436 | .00211 | .00021 | .00024 | .00841 | .00033 | .00035 | .00145 |
| %RSD | .51351 | 405.35 | 30.248 | 34.601 | 14.266 | 60.088 | .08014 | 34.724 |
| #1 | .84503 | .00097 | .00054 | -.00053 | -.06491 | -.00078 | .43417 | .00315 |
| #2 | .85118 | -.00202 | .00083 | -.00087 | -.05301 | -.00031 | .43368 | .00520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5597.5** | **72680.** | **4236.4** |
| Stddev | 4.3 | 412. | 25.2 |
| %RSD | .07709 | .56624 | .59470 |
| #1 | 5600.5 | 72389. | 4254.2 |
| #2 | 5594.4 | 72971. | 4218.6 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 0:38:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00676** | **47.459** | k **-.00168** | **.01354** | k **.00005** | k **-.00004** | k **.98577** | k **-.00344** | k **-.00073** | k **.00216** | k **.00022** | k **.00478** |
| Stddev | .00760 | .025 | .00105 | .00102 | .00014 | .00002 | .03097 | .01150 | .00024 | .00004 | .00025 | .00773 |
| %RSD | 112.55 | .05345 | 62.499 | 7.5133 | 297.05 | 57.763 | 3.1415 | 334.73 | 33.455 | 1.9220 | 118.14 | 161.67 |
| #1 | .00138 | 47.441 | -.00242 | .01426 | -.00005 | -.00006 | 1.0077 | .00470 | -.00090 | .00213 | .00004 | -.00068 |
| #2 | k .01213 | 47.477 | k -.00094 | .01282 | k .00015 | k -.00002 | k .96387 | k -.01157 | k -.00055 | k .00219 | k .00040 | k .01025 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.936** | **.08586** | k **-.00244** | k **-.09188** | **-.00010** | **-.00190** | **268.77** | **.00129** | **.00733** | k **.00406** | **5.2122** | k **-.01208** |
| Stddev | .403 | .01260 | .00325 | .14470 | .00006 | .00026 | .47 | .00001 | .00082 | .00627 | .0005 | .01480 |
| %RSD | .89749 | 14.676 | 133.15 | 157.49 | 67.216 | 13.619 | .17313 | 1.1557 | 11.136 | 154.43 | .01026 | 122.45 |
| #1 | 45.221 | .07695 | -.00014 | .01044 | -.00014 | -.00172 | 269.09 | .00127 | .00791 | -.00037 | 5.2125 | -.00162 |
| #2 | k 44.651 | .09477 | k -.00474 | k -.19420 | -.00005 | -.00208 | 268.44 | .00130 | .00675 | k .00849 | 5.2118 | k -.02255 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00357** | k **.01543** | k **.00090** | **.00038** | k **5.1659** | k **.00841** | k **-.00311** | k **10.054** | k **-.00062** | **.00257** | k **.07924** |
| Stddev | .01676 | .00418 | .00012 | .00003 | .2056 | .00855 | .00196 | .033 | .00114 | .00009 | .17891 |
| %RSD | 469.09 | 27.067 | 13.287 | 6.8717 | 3.9806 | 101.66 | 63.128 | .32862 | 183.23 | 3.6416 | 225.77 |
| #1 | .00828 | .01247 | .00099 | .00040 | 5.0205 | .00236 | -.00172 | 10.030 | -.00143 | .00250 | -.04726 |
| #2 | k -.01542 | k .01838 | k .00082 | .00036 | k 5.3113 | k .01445 | k -.00450 | k 10.077 | k .00018 | .00263 | k .20575 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5687.3** | **71942.** | **4251.9** |
| Stddev | 3.0 | 54. | .8 |
| %RSD | .05348 | .07479 | .01916 |
| #1 | 5689.5 | 71980. | 4251.3 |
| #2 | 5685.2 | 71904. | 4252.5 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 0:40:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49970** | **.48717** | **1.0033** | **.52263** | **.51220** | **.47149** | **.00036** | **4.7903** | **.49929** | **.50778** | **.49852** | **.49129** |
| Stddev | .00170 | .00047 | .0022 | .00010 | .00241 | .00125 | .00225 | .0180 | .00141 | .00027 | .00143 | .00073 |
| %RSD | .34037 | .09642 | .21708 | .01856 | .47047 | .26538 | 621.76 | .37656 | .28328 | .05318 | .28656 | .14883 |
| #1 | .50090 | .48750 | 1.0018 | .52256 | .51390 | .47237 | .00195 | 4.8030 | .49829 | .50759 | .49751 | .49181 |
| #2 | .49849 | .48684 | 1.0049 | .52269 | .51050 | .47060 | -.00123 | 4.7775 | .50029 | .50797 | .49953 | .49078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2246** | **53.727** | **1.0703** | **19.512** | **.49731** | **.49466** | **5.2076** | **.50632** | **1.0115** | **1.0059** | **.04704** | **1.0046** |
| Stddev | .0192 | .193 | .0029 | .028 | .00081 | .00309 | .0139 | .00319 | .0015 | .0062 | .00074 | .0036 |
| %RSD | .86498 | .35939 | .27112 | .14229 | .16213 | .62544 | .26701 | .62950 | .14545 | .61397 | 1.5810 | .35340 |
| #1 | 2.2382 | 53.864 | 1.0723 | 19.531 | .49789 | .49247 | 5.2175 | .50407 | 1.0105 | 1.0015 | .04651 | 1.0021 |
| #2 | 2.2110 | 53.590 | 1.0682 | 19.492 | .49674 | .49685 | 5.1978 | .50857 | 1.0126 | 1.0102 | .04756 | 1.0071 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0181** | **4.5622** | **.98347** | **.51650** | **.00239** | **.49269** | **.97568** | **-.03226** | **.49060** | **.48680** | **.47737** |
| Stddev | .0017 | .0037 | .00408 | .00144 | .00065 | .00038 | .00632 | .03729 | .00106 | .00118 | .00175 |
| %RSD | .16521 | .08008 | .41472 | .27900 | 27.127 | .07672 | .64766 | 115.59 | .21590 | .24158 | .36753 |
| #1 | 1.0169 | 4.5648 | .98059 | .51752 | .00193 | .49296 | .97121 | -.00589 | .49135 | .48763 | .47861 |
| #2 | 1.0193 | 4.5596 | .98635 | .51548 | .00285 | .49242 | .98015 | -.05863 | .48985 | .48597 | .47613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5765.1** | **73452.** | **4219.6** |
| Stddev | 2.6 | 120. | 13.0 |
| %RSD | .04549 | .16269 | .30855 |
| #1 | 5763.2 | 73368. | 4210.4 |
| #2 | 5766.9 | 73537. | 4228.8 |

Sample Name: CCB Acquired: 5/17/2013 0:42:42 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00098** | **-.00043** | **.00183** | F **.00705** | W **-.00113** | **-.00007** | **.00219** | **-.00834** | **-.00001** | **.00036** | **.00040** |
| Stddev | .00006 | .00033 | .00110 | .00007 | .00026 | .00000 | .00021 | .00208 | .00025 | .00012 | .00012 |
| %RSD | 6.5075 | 75.690 | 60.252 | 1.0290 | 23.037 | 4.6589 | 9.4246 | 24.951 | 4342.8 | 34.532 | 30.207 |
| #1 | .00102 | -.00020 | .00105 | .00710 | -.00131 | -.00007 | .00204 | -.00981 | -.00018 | .00044 | .00048 |
| #2 | .00093 | -.00066 | .00261 | .00700 | -.00095 | -.00008 | .00233 | -.00687 | .00017 | .00027 | .00031 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00053** | **-.00564** | **.05067** | W **-.00459** | **.00194** | **-.00010** | **-.00023** | **.03936** | **.00002** | **-.00020** | **.00014** |
| Stddev | .00042 | .00126 | .01610 | .00112 | .00124 | .00003 | .00026 | .01491 | .00012 | .00058 | .00170 |
| %RSD | 78.315 | 22.371 | 31.768 | 24.308 | 63.933 | 33.499 | 113.69 | 37.879 | 765.68 | 294.61 | 1234.3 |
| #1 | -.00024 | -.00475 | .06205 | -.00380 | .00106 | -.00012 | -.00041 | .02882 | -.00007 | .00021 | .00134 |
| #2 | -.00083 | -.00653 | .03929 | -.00538 | .00281 | -.00007 | -.00004 | .04991 | .00010 | -.00061 | -.00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04197** | **-.00154** | **.00238** | **-.01006** | **.00083** | **-.00008** | **.00194** | **-.00024** | **.00034** | **-.00455** | W **-.00128** |
| Stddev | .00035 | .00157 | .00036 | .00535 | .00044 | .00013 | .00203 | .00015 | .00085 | .03692 | .00014 |
| %RSD | .83920 | 102.01 | 15.196 | 53.147 | 52.662 | 158.98 | 104.47 | 61.229 | 251.17 | 811.11 | 11.201 |
| #1 | .04172 | -.00043 | .00264 | -.01384 | .00114 | .00001 | .00051 | -.00034 | .00094 | -.03066 | -.00118 |
| #2 | .04222 | -.00265 | .00212 | -.00628 | .00052 | -.00018 | .00338 | -.00013 | -.00026 | .02156 | -.00138 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00281** | **.00199** |
| Stddev | .00011 | .00255 |
| %RSD | 3.9041 | 128.43 |
| #1 | .00273 | .00018 |
| #2 | .00289 | .00379 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5812.6** | **74360.** | **4266.1** |
| Stddev | 1.7 | 102. | 2.2 |
| %RSD | .02888 | .13773 | .05190 |
| #1 | 5813.8 | 74287. | 4264.5 |
| #2 | 5811.4 | 74432. | 4267.7 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 0:45:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01147** | **.10411** | **.01715** | **.11051** | **.00959** | **.00102** | **.10426** | **.19968** | **.00532** | **.01069** | **.01049** |
| Stddev | .00073 | .00042 | .00269 | .00033 | .00011 | .00006 | .00165 | .00812 | .00014 | .00008 | .00010 |
| %RSD | 6.4033 | .40378 | 15.703 | .30216 | 1.1233 | 5.5740 | 1.5846 | 4.0678 | 2.6415 | .77955 | .95579 |
| #1 | .01095 | .10441 | .01525 | .11074 | .00967 | .00098 | .10543 | .19394 | .00522 | .01063 | .01056 |
| #2 | .01199 | .10382 | .01906 | .11027 | .00951 | .00106 | .10309 | .20542 | .00542 | .01075 | .01042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01393** | **.09360** | **3.3827** | W **.00783** | **.20956** | **.01028** | **.01957** | **1.1012** | **.04197** | **3.0340** | **.00961** |
| Stddev | .00042 | .00013 | .0023 | .00306 | .00154 | .00006 | .00042 | .0075 | .00012 | .0196 | .00000 |
| %RSD | 3.0495 | .13393 | .06858 | 39.110 | .73442 | .55455 | 2.1486 | .68078 | .27566 | .64545 | .02873 |
| #1 | .01363 | .09351 | 3.3811 | .00567 | .20847 | .01032 | .01987 | 1.1065 | .04206 | 3.0479 | .00961 |
| #2 | .01423 | .09369 | 3.3844 | .01000 | .21065 | .01024 | .01927 | 1.0959 | .04189 | 3.0202 | .00961 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03447** | **.00881** | **.01499** | **.46950** | **.10084** | **.01071** | W **.01829** | **.00950** | **.01505** | W **.04277** | **.00921** |
| Stddev | .00025 | .00035 | .00017 | .01283 | .00105 | .00019 | .00142 | .00031 | .00075 | .03862 | .00024 |
| %RSD | .72797 | 3.9392 | 1.1513 | 2.7336 | 1.0446 | 1.7855 | 7.7718 | 3.2963 | 5.0159 | 90.302 | 2.5676 |
| #1 | .03429 | .00905 | .01487 | .46042 | .10009 | .01058 | .01728 | .00972 | .01451 | .07007 | .00938 |
| #2 | .03465 | .00856 | .01511 | .47857 | .10158 | .01085 | .01929 | .00928 | .01558 | .01546 | .00905 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | .01500 | | | .06000 | |
| Range | | | | | | | 20.000% | | | -20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02535** | **.01593** |
| Stddev | .00020 | .00025 |
| %RSD | .80464 | 1.5814 |
| #1 | .02521 | .01610 |
| #2 | .02550 | .01575 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5812.2** | **73777.** | **4249.3** |
| Stddev | 6.6 | 48. | 5.9 |
| %RSD | .11320 | .06450 | .13833 |
| #1 | 5807.5 | 73743. | 4253.4 |
| #2 | 5816.9 | 73810. | 4245.1 |

Sample Name: 280-42191-A-75-A  Acquired: 5/17/2013 0:47:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.19422** | **.03085** | **4.8453** | **.05859** | **.00000** | **-.00214** | **217.24** | **.01080** |
| Stddev | .00041 | .00254 | .00156 | .0021 | .00015 | .00007 | .00216 | .90 | .00002 |
| %RSD | 27.319 | 1.3053 | 5.0531 | .04311 | .25865 | 65499. | 100.84 | .41481 | .17245 |
| #1 | .00120 | .19243 | .03195 | 4.8438 | .05870 | -.00005 | -.00061 | 217.87 | .01082 |
| #2 | .00177 | .19601 | .02975 | 4.8468 | .05848 | .00005 | -.00366 | 216.60 | .01079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.00126** | **.00978** | **8.3469** | **20.090** | **.05736** | **25.077** | **.75871** | **.01337** |
| Stddev | .00010 | .00007 | .00002 | .0555 | .082 | .00222 | .030 | .00045 | .00002 |
| %RSD | 5.4966 | 5.7979 | .20528 | .66490 | .40653 | 3.8711 | .12074 | .05886 | .13913 |
| #1 | .00180 | .00121 | .00980 | 8.3862 | 20.148 | .05579 | 25.098 | .75903 | .01339 |
| #2 | .00195 | .00131 | .00977 | 8.3077 | 20.032 | .05893 | 25.055 | .75840 | .01336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **57.682** | **.02574** | **.27472** | **.24413** | **78.023** | **.00030** | **.00004** | **12.807** | **.00082** |
| Stddev | .534 | .00034 | .00061 | .00102 | .025 | .00209 | .00229 | .064 | .00025 |
| %RSD | .92634 | 1.3339 | .22179 | .41906 | .03252 | 702.69 | 5359.5 | .50357 | 30.519 |
| #1 | 58.059 | .02598 | .27429 | .24340 | 78.041 | .00177 | .00166 | 12.852 | .00065 |
| #2 | 57.304 | .02550 | .27516 | .24485 | 78.005 | -.00118 | -.00157 | 12.761 | .00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.82120** | **.00279** | **.00762** | **-.00079** | **-.04950** | **.00077** | W **21.251** | **.00327** |
| Stddev | .00148 | .00236 | .00032 | .00096 | .00008 | .00028 | .046 | .00012 |
| %RSD | .17994 | 84.348 | 4.2662 | 122.58 | .16016 | 36.172 | .21850 | 3.7237 |
| #1 | .82224 | .00446 | .00739 | -.00147 | -.04956 | .00096 | 21.284 | .00336 |
| #2 | .82015 | .00113 | .00785 | -.00010 | -.04944 | .00057 | 21.218 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5583.1** | **72103.** | **4249.1** |
| Stddev | 6.7 | 308. | 26.5 |
| %RSD | .12012 | .42780 | .62376 |
| #1 | 5587.9 | 71885. | 4230.4 |
| #2 | 5578.4 | 72321. | 4267.9 |

Sample Name: 280-42191-A-76-A  Acquired: 5/17/2013 0:49:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **.05975** | **-.00076** | **3.7374** | **.05839** | **-.00011** | **-.00254** | **110.77** | **.00084** |
| Stddev | .00029 | .00001 | .00053 | .0019 | .00043 | .00009 | .00153 | .05 | .00015 |
| %RSD | 24.122 | .01796 | 70.378 | .05073 | .72821 | 82.991 | 60.046 | .04384 | 18.033 |
| #1 | .00141 | .05976 | -.00038 | 3.7387 | .05809 | -.00018 | -.00362 | 110.80 | .00074 |
| #2 | .00100 | .05975 | -.00113 | 3.7360 | .05869 | -.00005 | -.00146 | 110.73 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00198** | **.01116** | **.03032** | **.41954** | **13.048** | **.06121** | **18.137** | **.25503** | **.22640** |
| Stddev | .00008 | .00005 | .00019 | .00419 | .124 | .00023 | .037 | .00078 | .00132 |
| %RSD | 4.0567 | .44409 | .63086 | .99854 | .94667 | .36997 | .20365 | .30743 | .58433 |
| #1 | .00204 | .01112 | .03019 | .41658 | 13.136 | .06137 | 18.163 | .25559 | .22546 |
| #2 | .00192 | .01119 | .03046 | .42251 | 12.961 | .06105 | 18.111 | .25448 | .22734 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **34.114** | **.02600** | **.20045** | **.04445** | **66.557** | **-.00148** | **.00059** | **6.9676** | **.00103** |
| Stddev | .027 | .00012 | .00224 | .00075 | .021 | .00077 | .00214 | .0322 | .00042 |
| %RSD | .07942 | .45623 | 1.1170 | 1.6956 | .03115 | 51.821 | 363.78 | .46157 | 40.281 |
| #1 | 34.133 | .02608 | .20203 | .04392 | 66.572 | -.00094 | -.00092 | 6.9903 | .00133 |
| #2 | 34.094 | .02591 | .19886 | .04498 | 66.543 | -.00202 | .00210 | 6.9449 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45239** | **.00080** | **.00211** | **.00071** | **-.04996** | **-.00044** | **3.6250** | **.00068** |
| Stddev | .00026 | .00012 | .00012 | .00129 | .01187 | .00028 | .0163 | .00188 |
| %RSD | .05801 | 14.759 | 5.5635 | 182.13 | 23.755 | 64.452 | .44870 | 277.79 |
| #1 | .45257 | .00071 | .00203 | .00162 | -.05835 | -.00064 | 3.6366 | .00200 |
| #2 | .45220 | .00088 | .00220 | -.00020 | -.04157 | -.00024 | 3.6135 | -.00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5655.4** | **72444.** | **4205.4** |
| Stddev | 1.1 | 299. | 7.5 |
| %RSD | .01879 | .41310 | .17848 |
| #1 | 5654.7 | 72232. | 4200.1 |
| #2 | 5656.2 | 72655. | 4210.7 |

Sample Name: 280-42191-A-77-A Acquired: 5/17/2013 0:52:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **.03694** | **.00602** | **4.9018** | **.06183** | **.00000** | **-.00160** | **49.538** | **.00037** |
| Stddev | .00025 | .00038 | .00099 | .0041 | .00004 | .00003 | .00304 | .308 | .00008 |
| %RSD | 14.450 | 1.0172 | 16.504 | .08374 | .05944 | 8974.3 | 189.46 | .62113 | 22.847 |
| #1 | .00156 | .03667 | .00532 | 4.8989 | .06180 | .00002 | .00054 | 49.756 | .00043 |
| #2 | .00192 | .03720 | .00672 | 4.9047 | .06185 | -.00002 | -.00375 | 49.321 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00168** | **.00190** | **.02413** | **1.0957** | **14.416** | **.01342** | **27.173** | **.34808** | **.03535** |
| Stddev | .00019 | .00014 | .00011 | .0009 | .059 | .00123 | .034 | .00036 | .00025 |
| %RSD | 11.156 | 7.4325 | .43572 | .08457 | .41179 | 9.1372 | .12582 | .10389 | .69898 |
| #1 | .00181 | .00200 | .02406 | 1.0964 | 14.458 | .01255 | 27.197 | .34834 | .03518 |
| #2 | .00154 | .00180 | .02421 | 1.0951 | 14.374 | .01429 | 27.149 | .34783 | .03553 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.981** | **.00351** | **.21390** | **.02460** | **18.240** | **.00445** | **.00127** | **5.1982** | **.00108** |
| Stddev | .273 | .00020 | .00001 | .00037 | .039 | .00038 | .00279 | .0175 | .00017 |
| %RSD | .91183 | 5.7155 | .00520 | 1.5049 | .21369 | 8.5964 | 219.64 | .33749 | 16.259 |
| #1 | 29.787 | .00337 | .21389 | .02434 | 18.213 | .00418 | .00324 | 5.2106 | .00120 |
| #2 | 30.174 | .00365 | .21391 | .02486 | 18.268 | .00473 | -.00070 | 5.1858 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23795** | **.00042** | **.00142** | **.00094** | **-.02615** | **.00031** | **1.7021** | **.00188** |
| Stddev | .00096 | .00234 | .00028 | .00138 | .01806 | .00076 | .0006 | .00057 |
| %RSD | .40253 | 561.95 | 19.383 | 146.82 | 69.064 | 245.95 | .03810 | 30.368 |
| #1 | .23863 | .00207 | .00123 | .00191 | -.01338 | .00084 | 1.7017 | .00148 |
| #2 | .23727 | -.00124 | .00162 | -.00004 | -.03892 | -.00023 | 1.7026 | .00229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5720.8** | **73345.** | **4273.8** |
| Stddev | 6.8 | 268. | 42.0 |
| %RSD | .11864 | .36600 | .98364 |
| #1 | 5725.6 | 73155. | 4244.1 |
| #2 | 5716.0 | 73534. | 4303.6 |

Sample Name: sd 42191-A-77-A@5 Acquired: 5/17/2013 0:54:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00115** | **.01028** | **.00364** | **1.0302** | **.01288** | **-.00007** | **.00021** | **10.461** | **.00023** |
| Stddev | .00023 | .00000 | .00031 | .0011 | .00009 | .00001 | .00068 | .037 | .00001 |
| %RSD | 19.842 | .00585 | 8.5787 | .11098 | .73371 | 9.3405 | 326.59 | .35000 | 4.4348 |
| #1 | .00132 | .01028 | .00342 | 1.0311 | .01294 | -.00006 | .00069 | 10.487 | .00022 |
| #2 | .00099 | .01028 | .00386 | 1.0294 | .01281 | -.00007 | -.00027 | 10.435 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.00062** | **.00431** | **.24682** | **3.0447** | **-.00033** | **5.7586** | **.07398** | **.00706** |
| Stddev | .00011 | .00004 | .00046 | .00207 | .0699 | .00053 | .0154 | .00009 | .00029 |
| %RSD | 21.264 | 5.9846 | 10.638 | .84067 | 2.2944 | 160.92 | .26746 | .11798 | 4.1640 |
| #1 | .00045 | .00064 | .00463 | .24535 | 3.0941 | -.00070 | 5.7477 | .07392 | .00685 |
| #2 | .00061 | .00059 | .00398 | .24829 | 2.9953 | .00005 | 5.7695 | .07404 | .00727 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.6288** | **.00099** | **.04571** | **.00622** | **3.7593** | **-.00226** | **.00036** | **1.0875** | **.00050** |
| Stddev | .0175 | .00022 | .00025 | .00060 | .0049 | .00082 | .00576 | .0145 | .00005 |
| %RSD | .31085 | 22.556 | .54597 | 9.6535 | .12956 | 36.417 | 1622.5 | 1.3306 | 10.991 |
| #1 | 5.6412 | .00084 | .04588 | .00579 | 3.7627 | -.00168 | .00443 | 1.0977 | .00054 |
| #2 | 5.6165 | .00115 | .04553 | .00664 | 3.7558 | -.00284 | -.00372 | 1.0772 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05024** | **.00054** | **.00013** | **-.00158** | **-.00212** | **-.00140** | **.36353** | **.00365** |
| Stddev | .00005 | .00116 | .00019 | .00019 | .01516 | .00021 | .00124 | .00041 |
| %RSD | .09958 | 216.12 | 148.10 | 11.756 | 715.27 | 14.823 | .34237 | 11.265 |
| #1 | .05021 | -.00028 | -.00001 | -.00144 | .00860 | -.00154 | .36441 | .00394 |
| #2 | .05028 | .00136 | .00026 | -.00171 | -.01284 | -.00125 | .36265 | .00336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5846.9** | **74562.** | **4253.6** |
| Stddev | 7.6 | 113. | 18.5 |
| %RSD | .12919 | .15107 | .43543 |
| #1 | 5841.5 | 74642. | 4240.5 |
| #2 | 5852.2 | 74483. | 4266.7 |

Sample Name: 280-42191-A-77-B MS Acquired: 5/17/2013 0:57:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05360** | **1.9516** | **1.0244** | **6.0363** | **2.1262** | **.04800** | **2.0548** | **96.463** | **.10385** |
| Stddev | .00005 | .0010 | .0002 | .0033 | .0023 | .00007 | .0017 | .009 | .00010 |
| %RSD | .09617 | .05387 | .02351 | .05436 | .10774 | .14529 | .08415 | .00891 | .09664 |
| #1 | .05364 | 1.9524 | 1.0243 | 6.0386 | 2.1278 | .04805 | 2.0535 | 96.457 | .10378 |
| #2 | .05356 | 1.9509 | 1.0246 | 6.0340 | 2.1246 | .04795 | 2.0560 | 96.469 | .10392 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50140** | **.20182** | **.27337** | **2.0018** | **68.329** | **1.0808** | **76.342** | **.87636** | **1.0316** |
| Stddev | .00041 | .00009 | .00008 | .0118 | .163 | .0012 | .106 | .00132 | .0022 |
| %RSD | .08099 | .04424 | .02841 | .58754 | .23903 | .11448 | .13881 | .15112 | .21593 |
| #1 | .50169 | .20189 | .27343 | 2.0101 | 68.445 | 1.0799 | 76.417 | .87730 | 1.0332 |
| #2 | .50112 | .20176 | .27332 | 1.9935 | 68.214 | 1.0817 | 76.267 | .87542 | 1.0300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **84.883** | **.49635** | **10.712** | **.51955** | **18.772** | **.52143** | **2.0785** | **14.606** | **1.9625** |
| Stddev | .509 | .00093 | .005 | .00147 | .021 | .00040 | .0065 | .038 | .0023 |
| %RSD | .59976 | .18757 | .04779 | .28326 | .11354 | .07715 | .31030 | .25712 | .11562 |
| #1 | 84.523 | .49701 | 10.716 | .52059 | 18.787 | .52115 | 2.0831 | 14.579 | 1.9641 |
| #2 | 85.243 | .49569 | 10.709 | .51851 | 18.757 | .52172 | 2.0739 | 14.632 | 1.9609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2636** | **1.0226** | **.99935** | **1.9450** | **2.0529** | **.49948** | **2.1836** | **.47145** |
| Stddev | .0012 | .0035 | .00122 | .0003 | .0045 | .00037 | .0040 | .00006 |
| %RSD | .09600 | .34433 | .12229 | .01557 | .22137 | .07442 | .18235 | .01217 |
| #1 | 1.2628 | 1.0251 | 1.0002 | 1.9448 | 2.0561 | .49922 | 2.1864 | .47149 |
| #2 | 1.2645 | 1.0201 | .99849 | 1.9452 | 2.0497 | .49975 | 2.1808 | .47141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5587.5** | **71508.** | **4257.7** |
| Stddev | 11.8 | 203. | 16.5 |
| %RSD | .21065 | .28393 | .38703 |
| #1 | 5579.2 | 71364. | 4246.0 |
| #2 | 5595.8 | 71652. | 4269.3 |

Sample Name: 280-42191-A-77-C MSD Acquired: 5/17/2013 0:59:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05336** | **1.9540** | **1.0284** | **5.9927** | **2.1287** | **.04765** | **2.0586** | **96.231** | **.10381** |
| Stddev | .00066 | .0001 | .0054 | .0032 | .0079 | .00016 | .0030 | .302 | .00024 |
| %RSD | 1.2439 | .00671 | .52525 | .05276 | .37134 | .33549 | .14789 | .31413 | .23244 |
| #1 | .05289 | 1.9540 | 1.0322 | 5.9905 | 2.1231 | .04777 | 2.0564 | 96.017 | .10398 |
| #2 | .05383 | 1.9541 | 1.0245 | 5.9950 | 2.1343 | .04754 | 2.0608 | 96.445 | .10364 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50101** | **.20196** | **.27453** | **2.0007** | **68.384** | **1.0834** | **76.161** | **.87038** | **1.0351** |
| Stddev | .00049 | .00010 | .00053 | .0032 | .209 | .0047 | .071 | .00088 | .0009 |
| %RSD | .09737 | .05143 | .19307 | .15783 | .30616 | .43804 | .09310 | .10086 | .09047 |
| #1 | .50066 | .20189 | .27490 | 1.9985 | 68.236 | 1.0801 | 76.211 | .86976 | 1.0344 |
| #2 | .50135 | .20203 | .27415 | 2.0030 | 68.532 | 1.0868 | 76.111 | .87100 | 1.0357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **84.107** | **.49627** | **10.680** | **.51917** | **18.550** | **.52025** | **2.0705** | **14.577** | **1.9704** |
| Stddev | .408 | .00010 | .014 | .00170 | .007 | .00097 | .0001 | .054 | .0043 |
| %RSD | .48514 | .02048 | .12927 | .32681 | .03546 | .18689 | .00421 | .36771 | .21722 |
| #1 | 84.396 | .49619 | 10.670 | .52037 | 18.545 | .52094 | 2.0705 | 14.615 | 1.9673 |
| #2 | 83.819 | .49634 | 10.690 | .51797 | 18.555 | .51957 | 2.0706 | 14.539 | 1.9734 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2673** | **1.0247** | **1.0024** | **1.9426** | **2.0636** | **.49946** | **2.1684** | **.47545** |
| Stddev | .0051 | .0016 | .0020 | .0010 | .0073 | .00040 | .0036 | .00115 |
| %RSD | .40516 | .15264 | .19995 | .05349 | .35614 | .07977 | .16419 | .24276 |
| #1 | 1.2636 | 1.0258 | 1.0010 | 1.9433 | 2.0688 | .49975 | 2.1709 | .47627 |
| #2 | 1.2709 | 1.0236 | 1.0038 | 1.9418 | 2.0584 | .49918 | 2.1659 | .47464 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5584.0** | **71384.** | **4218.8** |
| Stddev | 8.1 | 148. | 5.6 |
| %RSD | .14559 | .20775 | .13336 |
| #1 | 5589.7 | 71279. | 4214.8 |
| #2 | 5578.2 | 71489. | 4222.8 |

Sample Name: 280-42191-A-78-A  Acquired: 5/17/2013 1:01:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00160** | **.09784** | **.00577** | **2.0260** | **.04076** | **-.00008** | **-.00145** | **63.771** | **.00049** |
| Stddev | .00028 | .00183 | .00048 | .0025 | .00053 | .00009 | .00118 | .056 | .00002 |
| %RSD | 17.439 | 1.8732 | 8.2976 | .12285 | 1.2894 | 110.16 | 81.675 | .08762 | 3.7756 |
| #1 | .00180 | .09913 | .00543 | 2.0278 | .04114 | -.00002 | -.00061 | 63.811 | .00050 |
| #2 | .00141 | .09654 | .00610 | 2.0242 | .04039 | -.00014 | -.00229 | 63.732 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00785** | **.16090** | **.05249** | **12.044** | **22.408** | **.04876** | **27.315** | **.03833** | **.29634** |
| Stddev | .00019 | .00007 | .00020 | .007 | .009 | .00456 | .017 | .00005 | .00100 |
| %RSD | 2.4119 | .04493 | .39038 | .06057 | .04179 | 9.3472 | .06315 | .13046 | .33701 |
| #1 | .00798 | .16085 | .05264 | 12.039 | 22.401 | .04553 | 27.302 | .03836 | .29705 |
| #2 | .00771 | .16095 | .05235 | 12.049 | 22.414 | .05198 | 27.327 | .03829 | .29564 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **41.112** | **.12345** | **.21722** | **.01007** | **129.47** | **-.00028** | **.00702** | **2.8876** | **.00086** |
| Stddev | .410 | .00030 | .00019 | .00148 | .04 | .00099 | .00138 | .0180 | .00084 |
| %RSD | .99650 | .23937 | .08591 | 14.692 | .03060 | 350.84 | 19.609 | .62355 | 97.898 |
| #1 | 41.402 | .12324 | .21708 | .01112 | 129.44 | -.00098 | .00799 | 2.9003 | .00145 |
| #2 | 40.822 | .12366 | .21735 | .00902 | 129.49 | .00042 | .00604 | 2.8748 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26540** | **.00513** | **.01381** | **.00089** | **-.03915** | **.00047** | W **12.125** | **.00242** |
| Stddev | .00047 | .00068 | .00024 | .00114 | .04976 | .00006 | .005 | .00283 |
| %RSD | .17721 | 13.215 | 1.7530 | 128.59 | 127.09 | 13.064 | .04470 | 116.95 |
| #1 | .26506 | .00465 | .01398 | .00169 | -.00397 | .00043 | 12.129 | .00442 |
| #2 | .26573 | .00561 | .01364 | .00008 | -.07434 | .00052 | 12.121 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5721.8** | **73695.** | **4271.8** |
| Stddev | 12.5 | 157. | 1.9 |
| %RSD | .21765 | .21252 | .04338 |
| #1 | 5730.6 | 73584. | 4270.5 |
| #2 | 5712.9 | 73805. | 4273.1 |

Sample Name: 280-42191-A-79-A  Acquired: 5/17/2013 1:03:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.37335** | **.00287** | **2.8717** | **.08336** | **-.00001** | **-.00265** | **111.82** | **.00191** |
| Stddev | .00038 | .00151 | .00053 | .0042 | .00032 | .00004 | .00170 | .75 | .00002 |
| %RSD | 54.011 | .40424 | 18.554 | .14665 | .38604 | 319.22 | 64.421 | .67459 | 1.0505 |
| #1 | .00097 | .37442 | .00249 | 2.8687 | .08314 | -.00004 | -.00144 | 112.36 | .00190 |
| #2 | .00043 | .37228 | .00325 | 2.8747 | .08359 | .00002 | -.00385 | 111.29 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **.00434** | **.05586** | **1.3000** | **11.846** | **.04653** | **16.431** | **.37958** | **.01149** |
| Stddev | .00013 | .00005 | .00015 | .0036 | .083 | .00076 | .015 | .00089 | .00010 |
| %RSD | 7.9392 | 1.2161 | .26583 | .27439 | .70183 | 1.6360 | .09203 | .23322 | .86037 |
| #1 | .00158 | .00438 | .05596 | 1.3025 | 11.904 | .04707 | 16.442 | .37896 | .01142 |
| #2 | .00177 | .00430 | .05575 | 1.2974 | 11.787 | .04599 | 16.420 | .38021 | .01156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.107** | **.01093** | **.26299** | **.27591** | **47.888** | **-.00028** | **-.00001** | **7.8157** | **.00284** |
| Stddev | .414 | .00013 | .00111 | .00183 | .029 | .00022 | .00180 | .0203 | .00052 |
| %RSD | 1.4217 | 1.1922 | .42118 | .66272 | .06045 | 79.901 | 14970. | .25937 | 18.230 |
| #1 | 29.400 | .01102 | .26221 | .27720 | 47.867 | -.00012 | .00126 | 7.8300 | .00321 |
| #2 | 28.815 | .01083 | .26377 | .27461 | 47.908 | -.00044 | -.00129 | 7.8014 | .00248 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41132** | **.00225** | **.01729** | **-.00092** | W **-.05791** | **.00065** | **2.8587** | **.00244** |
| Stddev | .00253 | .00046 | .00025 | .00051 | .04782 | .00036 | .0035 | .00317 |
| %RSD | .61401 | 20.260 | 1.4670 | 55.594 | 82.574 | 55.811 | .12232 | 130.00 |
| #1 | .41311 | .00258 | .01711 | -.00128 | -.02410 | .00091 | 2.8563 | .00468 |
| #2 | .40953 | .00193 | .01747 | -.00056 | -.09172 | .00040 | 2.8612 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5679.8** | **72994.** | **4222.7** |
| Stddev | 9.2 | 174. | 34.7 |
| %RSD | .16228 | .23814 | .82286 |
| #1 | 5673.2 | 72871. | 4198.1 |
| #2 | 5686.3 | 73117. | 4247.2 |

Sample Name: 280-42191-A-80-A  Acquired: 5/17/2013 1:06:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **.33305** | **.00226** | **1.8325** | **.08148** | **.00004** | **-.00317** | **124.17** | **.00787** |
| Stddev | .00011 | .00159 | .00065 | .0051 | .00020 | .00005 | .00002 | .95 | .00006 |
| %RSD | 8.7648 | .47855 | 28.927 | .27611 | .24493 | 114.22 | .62738 | .76148 | .70403 |
| #1 | .00131 | .33418 | .00273 | 1.8361 | .08162 | .00001 | -.00318 | 124.83 | .00790 |
| #2 | .00116 | .33192 | .00180 | 1.8290 | .08134 | .00008 | -.00315 | 123.50 | .00783 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.00354** | **.07901** | **1.2242** | **11.662** | **.04832** | **15.475** | **.17511** | **.00404** |
| Stddev | .00018 | .00009 | .00041 | .0080 | .005 | .00354 | .022 | .00040 | .00001 |
| %RSD | 18.053 | 2.4634 | .52349 | .65390 | .04558 | 7.3321 | .13933 | .23049 | .17059 |
| #1 | .00111 | .00360 | .07872 | 1.2185 | 11.666 | .05082 | 15.460 | .17483 | .00405 |
| #2 | .00086 | .00348 | .07930 | 1.2298 | 11.658 | .04581 | 15.491 | .17540 | .00404 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.787** | **.00943** | **.23832** | **.35173** | **41.651** | **.00064** | **.00117** | **10.619** | **.00287** |
| Stddev | .295 | .00025 | .00172 | .00147 | .050 | .00047 | .00064 | .042 | .00029 |
| %RSD | 1.6585 | 2.6283 | .72263 | .41789 | .11955 | 72.403 | 54.596 | .39492 | 10.154 |
| #1 | 17.579 | .00961 | .23954 | .35277 | 41.686 | .00031 | .00072 | 10.590 | .00267 |
| #2 | 17.996 | .00926 | .23711 | .35069 | 41.616 | .00097 | .00162 | 10.649 | .00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44328** | **.00190** | **.01384** | **-.00018** | W **-.08350** | **.00044** | **3.9193** | **.00343** |
| Stddev | .00281 | .00151 | .00075 | .00161 | .02425 | .00068 | .0053 | .00182 |
| %RSD | .63448 | 79.719 | 5.4292 | 906.79 | 29.039 | 156.53 | .13488 | 53.222 |
| #1 | .44527 | .00297 | .01437 | -.00132 | -.10065 | -.00005 | 3.9156 | .00472 |
| #2 | .44129 | .00083 | .01331 | .00096 | -.06635 | .00092 | 3.9230 | .00214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5678.7** | **73141.** | **4267.5** |
| Stddev | 6.0 | 90. | 28.8 |
| %RSD | .10546 | .12333 | .67546 |
| #1 | 5682.9 | 73205. | 4247.1 |
| #2 | 5674.4 | 73077. | 4287.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 1:08:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **47.318** | **.00273** | **.01635** | **-.00064** | **-.00007** | **1.0055** | **-.00046** | **-.00078** | **.00222** | **-.00010** | **-.00051** | **45.240** |
| Stddev | .00010 | .162 | .00165 | .00016 | .00025 | .00001 | .0042 | .00166 | .00010 | .00016 | .00011 | .00006 | .220 |
| %RSD | 10.174 | .34313 | 60.535 | 1.0068 | 38.546 | 19.062 | .41857 | 362.26 | 12.908 | 7.3296 | 119.40 | 11.709 | .48720 |
| #1 | .00107 | 47.433 | .00390 | .01646 | -.00046 | -.00006 | 1.0084 | -.00163 | -.00071 | .00234 | -.00001 | -.00047 | 45.084 |
| #2 | .00093 | 47.203 | .00156 | .01623 | -.00081 | -.00008 | 1.0025 | .00072 | -.00086 | .00211 | -.00018 | -.00056 | 45.396 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04993** | **-.00225** | **.00627** | **-.00011** | **-.00227** | **268.50** | **.00136** | **.00798** | **.00199** | **5.1596** | **-.00058** | **.00660** | **-.00630** |
| Stddev | .04129 | .00040 | .00350 | .00004 | .00011 | .46 | .00010 | .00080 | .00070 | .0148 | .00075 | .00135 | .00616 |
| %RSD | 82.682 | 17.734 | 55.909 | 39.950 | 4.8351 | .17087 | 7.3586 | 10.018 | 35.086 | .28600 | 128.88 | 20.406 | 97.748 |
| #1 | .02074 | -.00253 | .00874 | -.00008 | -.00219 | 268.83 | .00143 | .00742 | .00150 | 5.1492 | -.00005 | .00755 | -.00194 |
| #2 | .07913 | -.00197 | .00379 | -.00014 | -.00235 | 268.18 | .00129 | .00855 | .00248 | 5.1701 | -.00112 | .00565 | -.01065 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **.00029** | **5.0360** | **.00298** | **-.00182** | **9.9805** | **-.00143** | **.00314** | **-.04549** |
| Stddev | .00029 | .00002 | .0121 | .00028 | .00044 | .0266 | .00036 | .00001 | .00377 |
| %RSD | 33.946 | 5.9659 | .24062 | 9.2856 | 24.359 | .26667 | 25.173 | .26599 | 8.2938 |
| #1 | .00066 | .00030 | 5.0274 | .00278 | -.00151 | 9.9617 | -.00118 | .00313 | -.04282 |
| #2 | .00107 | .00028 | 5.0446 | .00317 | -.00213 | 9.9994 | -.00169 | .00315 | -.04816 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5724.9** | **72739.** | **4276.3** |
| Stddev | 3.9 | 89. | 21.5 |
| %RSD | .06798 | .12185 | .50385 |
| #1 | 5722.1 | 72676. | 4261.1 |
| #2 | 5727.6 | 72801. | 4291.5 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 1:11:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50114** | **.50205** | **1.0041** | **.52478** | **.51202** | **.47103** | **.00115** | **4.7677** | **.49891** | **.50806** | **.49795** | **.49103** |
| Stddev | .00021 | .00096 | .0065 | .00039 | .00195 | .00094 | .00267 | .0297 | .00003 | .00090 | .00027 | .00026 |
| %RSD | .04256 | .19177 | .65048 | .07368 | .38059 | .19897 | 232.37 | .62273 | .00636 | .17663 | .05419 | .05247 |
| #1 | .50099 | .50273 | 1.0087 | .52506 | .51064 | .47037 | .00304 | 4.7887 | .49889 | .50870 | .49814 | .49121 |
| #2 | .50130 | .50137 | .99945 | .52451 | .51340 | .47170 | -.00074 | 4.7467 | .49893 | .50743 | .49776 | .49084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2434** | **53.341** | **1.0699** | **19.491** | **.49817** | **.49226** | **5.1668** | **.50488** | **1.0123** | **1.0029** | **.00630** | **1.0010** |
| Stddev | .0088 | .108 | .0013 | .023 | .00001 | .00032 | .0113 | .00047 | .0042 | .0003 | .00078 | .0016 |
| %RSD | .39012 | .20258 | .12278 | .12012 | .00251 | .06519 | .21917 | .09306 | .41796 | .03146 | 12.402 | .16244 |
| #1 | 2.2496 | 53.265 | 1.0690 | 19.508 | .49818 | .49203 | 5.1588 | .50455 | 1.0093 | 1.0031 | .00686 | .99983 |
| #2 | 2.2372 | 53.418 | 1.0708 | 19.474 | .49816 | .49249 | 5.1749 | .50521 | 1.0153 | 1.0026 | .00575 | 1.0021 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0183** | **4.5312** | **.98071** | **.51534** | **.00315** | **.49444** | **.97639** | **-.02885** | **.48991** | **.48720** | **.47842** |
| Stddev | .0030 | .0067 | .00125 | .00037 | .00037 | .00041 | .00287 | .02470 | .00085 | .00139 | .00048 |
| %RSD | .29850 | .14707 | .12753 | .07103 | 11.830 | .08323 | .29350 | 85.601 | .17437 | .28514 | .09994 |
| #1 | 1.0205 | 4.5359 | .97982 | .51508 | .00342 | .49473 | .97436 | -.04632 | .49051 | .48621 | .47876 |
| #2 | 1.0162 | 4.5264 | .98159 | .51560 | .00289 | .49415 | .97842 | -.01139 | .48931 | .48818 | .47809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5760.0** | **73213.** | **4237.5** |
| Stddev | 12.4 | 34. | 8.8 |
| %RSD | .21499 | .04663 | .20669 |
| #1 | 5751.3 | 73189. | 4243.7 |
| #2 | 5768.8 | 73237. | 4231.3 |

Sample Name: CCB Acquired: 5/17/2013 1:13:20 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00138** | **-.00018** | W **.00465** | F **.00978** | W **-.00092** | **.00011** | **.00206** | **-.00224** | **-.00006** | **.00052** | **.00021** |
| Stddev | .00043 | .00018 | .00122 | .00012 | .00014 | .00015 | .00004 | .00148 | .00002 | .00024 | .00013 |
| %RSD | 31.119 | 99.441 | 26.192 | 1.2390 | 15.444 | 131.78 | 2.0258 | 66.133 | 28.540 | 45.679 | 63.095 |
| #1 | .00168 | -.00005 | .00552 | .00986 | -.00102 | .00022 | .00203 | -.00119 | -.00007 | .00069 | .00012 |
| #2 | .00108 | -.00030 | .00379 | .00969 | -.00082 | .00001 | .00209 | -.00328 | -.00005 | .00035 | .00031 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | .00440 | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | -.00440 | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00074** | **-.00157** | **.09793** | **-.00234** | **-.00044** | **-.00006** | **-.00034** | **-.01332** | **.00021** | **-.00065** | **.00103** |
| Stddev | .00027 | .00281 | .01025 | .00124 | .00227 | .00005 | .00003 | .00475 | .00002 | .00081 | .00075 |
| %RSD | 35.686 | 179.22 | 10.464 | 53.232 | 512.47 | 82.612 | 9.1570 | 35.680 | 11.183 | 124.12 | 73.211 |
| #1 | -.00056 | .00042 | .10517 | -.00146 | -.00204 | -.00002 | -.00032 | -.00996 | .00022 | -.00008 | .00156 |
| #2 | -.00093 | -.00355 | .09068 | -.00322 | .00116 | -.00009 | -.00036 | -.01668 | .00019 | -.00122 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **-.00268** | **.00009** | **.00131** | **-.00020** | **.00004** | **.00028** | **-.00022** | **.00043** | **-.01506** | W **-.00144** |
| Stddev | .00360 | .00139 | .00302 | .03222 | .00019 | .00007 | .00005 | .00030 | .00090 | .00700 | .00026 |
| %RSD | 182.26 | 51.888 | 3198.9 | 2453.6 | 94.387 | 161.84 | 18.750 | 133.21 | 210.67 | 46.464 | 17.993 |
| #1 | -.00057 | -.00169 | -.00204 | .02409 | -.00033 | .00010 | .00024 | -.00001 | .00107 | -.01011 | -.00125 |
| #2 | .00452 | -.00366 | .00223 | -.02147 | -.00007 | -.00001 | .00031 | -.00043 | -.00021 | -.02001 | -.00162 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00206** | W **.00267** |
| Stddev | .00033 | .00125 |
| %RSD | 16.026 | 46.746 |
| #1 | .00183 | .00355 |
| #2 | .00229 | .00179 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5833.7** | **74156.** | **4260.6** |
| Stddev | 2.0 | 219. | 4.0 |
| %RSD | .03405 | .29514 | .09304 |
| #1 | 5835.1 | 74001. | 4257.8 |
| #2 | 5832.3 | 74311. | 4263.4 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 1:15:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01127** | **.10364** | **.01630** | **.11335** | **.00951** | **.00099** | **.10556** | **.19067** | **.00509** | **.01081** | **.01056** |
| Stddev | .00073 | .00028 | .00013 | .00039 | .00000 | .00005 | .00215 | .00278 | .00005 | .00005 | .00000 |
| %RSD | 6.4550 | .26967 | .77237 | .34264 | .00886 | 4.9806 | 2.0332 | 1.4590 | 1.0514 | .46079 | .03412 |
| #1 | .01075 | .10384 | .01621 | .11362 | .00951 | .00095 | .10404 | .18870 | .00505 | .01085 | .01057 |
| #2 | .01178 | .10344 | .01639 | .11307 | .00951 | .00102 | .10707 | .19264 | .00513 | .01078 | .01056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01414** | **.09267** | **3.3539** | **.00817** | **.20924** | **.01030** | **.01966** | **1.0671** | **.04211** | **3.0500** | **.01042** |
| Stddev | .00036 | .00083 | .0106 | .00231 | .00436 | .00002 | .00022 | .0004 | .00018 | .0058 | .00082 |
| %RSD | 2.5712 | .89703 | .31514 | 28.281 | 2.0839 | .23533 | 1.0966 | .03834 | .42065 | .18958 | 7.8538 |
| #1 | .01440 | .09208 | 3.3464 | .00654 | .20616 | .01032 | .01981 | 1.0668 | .04199 | 3.0541 | .01099 |
| #2 | .01388 | .09326 | 3.3614 | .00981 | .21232 | .01029 | .01951 | 1.0674 | .04224 | 3.0459 | .00984 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00160** | **.00874** | **.01588** | **.46441** | **.10134** | **.01044** | **.01481** | **.00967** | **.01385** | **.06904** | **.00881** |
| Stddev | .00056 | .00028 | .00365 | .00458 | .00057 | .00001 | .00164 | .00049 | .00059 | .02684 | .00039 |
| %RSD | 35.094 | 3.2201 | 23.010 | .98633 | .56096 | .05207 | 11.041 | 5.0949 | 4.2930 | 38.880 | 4.4653 |
| #1 | .00200 | .00855 | .01329 | .46765 | .10174 | .01044 | .01597 | .01002 | .01427 | .05006 | .00908 |
| #2 | .00121 | .00894 | .01846 | .46117 | .10094 | .01043 | .01366 | .00933 | .01343 | .08802 | .00853 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02582** | W **.01928** |
| Stddev | .00020 | .00241 |
| %RSD | .75748 | 12.512 |
| #1 | .02596 | .01758 |
| #2 | .02568 | .02099 |
| Check ? | Chk Warn | Chk Warn |
| Value | .02000 | .01500 |
| Range | 20.000% | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5805.2** | **73654.** | **4281.9** |
| Stddev | 15.4 | 136. | 24.3 |
| %RSD | .26523 | .18424 | .56787 |
| #1 | 5794.3 | 73558. | 4264.7 |
| #2 | 5816.1 | 73750. | 4299.1 |

Sample Name: MB 280-174343/1-A Acquired: 5/17/2013 1:18:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00145** | **.00239** | **.00436** | W **.00731** | **-.00093** | **-.00010** | **-.00309** | **.00420** | **-.00010** |
| Stddev | .00009 | .00027 | .00020 | .00041 | .00053 | .00006 | .00238 | .00091 | .00013 |
| %RSD | 6.0278 | 11.364 | 4.4973 | 5.5686 | 56.869 | 56.875 | 77.043 | 21.617 | 126.41 |
| #1 | .00152 | .00259 | .00450 | .00760 | -.00055 | -.00006 | -.00141 | .00356 | -.00001 |
| #2 | .00139 | .00220 | .00422 | .00702 | -.00130 | -.00015 | -.00477 | .00484 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00028** | **-.00023** | **.00929** | **.04092** | **-.00131** | **.00168** | **.00008** | **-.00011** |
| Stddev | .00010 | .00010 | .00062 | .00068 | .04161 | .00096 | .00115 | .00000 | .00013 |
| %RSD | 83.457 | 37.206 | 264.99 | 7.2714 | 101.70 | 73.377 | 68.041 | 3.9161 | 117.33 |
| #1 | .00005 | .00035 | .00020 | .00977 | .01149 | -.00063 | .00087 | .00009 | -.00002 |
| #2 | .00019 | .00021 | -.00067 | .00882 | .07034 | -.00199 | .00250 | .00008 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02516** | **.00007** | F **.15643** | **.00049** | **.00257** | **-.00109** | **.00119** | **-.00604** | **.00039** |
| Stddev | .01164 | .00006 | .00197 | .00026 | .00297 | .00035 | .00066 | .00728 | .00022 |
| %RSD | 46.268 | 96.695 | 1.2563 | 52.342 | 115.54 | 32.468 | 55.324 | 120.52 | 56.259 |
| #1 | -.03340 | .00011 | .15504 | .00031 | .00047 | -.00084 | .00073 | -.01120 | .00055 |
| #2 | -.01693 | .00002 | .15782 | .00068 | .00467 | -.00134 | .00166 | -.00089 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **-.00008** | **-.00001** | **-.00126** | **-.03617** | **-.00124** | **.00320** | **.00262** |
| Stddev | .00009 | .00303 | .00044 | .00090 | .01864 | .00012 | .00011 | .00247 |
| %RSD | 122.21 | 3719.3 | 3715.8 | 71.790 | 51.545 | 9.2721 | 3.3260 | 94.154 |
| #1 | -.00001 | -.00223 | .00030 | -.00190 | -.02298 | -.00116 | .00312 | .00088 |
| #2 | -.00014 | .00206 | -.00032 | -.00062 | -.04935 | -.00132 | .00327 | .00437 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5831.5** | **74072.** | **4253.6** |
| Stddev | .8 | 366. | 47.0 |
| %RSD | .01342 | .49363 | 1.1060 |
| #1 | 5830.9 | 73814. | 4220.3 |
| #2 | 5832.0 | 74331. | 4286.9 |

Sample Name: LCS 280-174343/2-A Acquired: 5/17/2013 1:20:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05381** | **1.9287** | **1.0217** | **1.0660** | **2.0936** | **.04797** | **2.0701** | **47.455** | **.10415** |
| Stddev | .00056 | .0006 | .0013 | .0016 | .0249 | .00008 | .0114 | .653 | .00029 |
| %RSD | 1.0339 | .03140 | .12362 | .15250 | 1.1893 | .17675 | .55096 | 1.3755 | .28262 |
| #1 | .05341 | 1.9291 | 1.0208 | 1.0671 | 2.1112 | .04791 | 2.0782 | 47.917 | .10436 |
| #2 | .05420 | 1.9282 | 1.0226 | 1.0648 | 2.0760 | .04803 | 2.0621 | 46.994 | .10394 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50732** | **.20187** | **.25011** | **.89560** | **54.390** | **1.0752** | **49.420** | **.50129** | **1.0045** |
| Stddev | .00052 | .00022 | .00123 | .00361 | .853 | .0153 | .056 | .00069 | .0009 |
| %RSD | .10287 | .10652 | .49240 | .40285 | 1.5677 | 1.4200 | .11361 | .13827 | .09297 |
| #1 | .50769 | .20202 | .24924 | .89816 | 54.993 | 1.0860 | 49.380 | .50080 | 1.0051 |
| #2 | .50695 | .20172 | .25098 | .89305 | 53.787 | 1.0644 | 49.459 | .50178 | 1.0038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **56.288** | **.50141** | **10.627** | **.50235** | **-.00888** | **.51656** | **2.0895** | F **9.3459** | **1.9893** |
| Stddev | .555 | .00094 | .019 | .00046 | .00091 | .00309 | .0008 | .0637 | .0056 |
| %RSD | .98559 | .18715 | .17800 | .09141 | 10.269 | .59794 | .03919 | .68185 | .28041 |
| #1 | 56.680 | .50207 | 10.614 | .50268 | -.00953 | .51438 | 2.0890 | 9.3910 | 1.9933 |
| #2 | 55.896 | .50074 | 10.641 | .50203 | -.00824 | .51875 | 2.0901 | 9.3009 | 1.9854 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0404** | **1.0347** | **1.0081** | **1.9818** | **2.0591** | **.50287** | **.49002** | **.47950** |
| Stddev | .0154 | .0006 | .0003 | .0044 | .0117 | .00035 | .00089 | .00182 |
| %RSD | 1.4826 | .05829 | .03021 | .22110 | .56991 | .06910 | .18168 | .38057 |
| #1 | 1.0513 | 1.0343 | 1.0083 | 1.9849 | 2.0508 | .50263 | .48939 | .48079 |
| #2 | 1.0294 | 1.0351 | 1.0079 | 1.9787 | 2.0674 | .50312 | .49065 | .47821 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5666.4** | **72356.** | **4251.7** |
| Stddev | 10.3 | 91. | 63.9 |
| %RSD | .18162 | .12532 | 1.5029 |
| #1 | 5659.1 | 72292. | 4206.5 |
| #2 | 5673.7 | 72420. | 4296.9 |

Sample Name: 280-42191-A-41-A  Acquired: 5/17/2013 1:22:57  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00171** | **.01523** | **13.184** | **.06330** | **-.00008** | **-.00127** | **92.544** | **.00004** |
| Stddev | .00019 | .00019 | .00169 | .002 | .00018 | .00002 | .00239 | .086 | .00012 |
| %RSD | 23.314 | 10.910 | 11.108 | .01786 | .28268 | 20.847 | 188.87 | .09341 | 291.24 |
| #1 | .00068 | .00158 | .01642 | 13.186 | .06317 | -.00009 | -.00296 | 92.605 | -.00004 |
| #2 | .00095 | .00184 | .01403 | 13.183 | .06343 | -.00007 | .00042 | 92.483 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02546** | **.00044** | **1.1322** | **.51140** | **5.8081** | **.01042** | **31.641** | **.03730** | **.02184** |
| Stddev | .00024 | .00014 | .0035 | .00529 | .0308 | .00044 | .113 | .00006 | .00010 |
| %RSD | .93681 | 31.958 | .30801 | 1.0353 | .53029 | 4.2367 | .35711 | .16239 | .46024 |
| #1 | .02563 | .00055 | 1.1346 | .51514 | 5.8299 | .01010 | 31.721 | .03726 | .02191 |
| #2 | .02529 | .00034 | 1.1297 | .50765 | 5.7863 | .01073 | 31.561 | .03735 | .02177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **58.484** | **.03455** | **.17905** | **.00131** | **37.491** | **.00043** | **.00363** | **5.5413** | **.00025** |
| Stddev | .405 | .00038 | .00431 | .00120 | .024 | .00192 | .00052 | .0207 | .00086 |
| %RSD | .69330 | 1.1014 | 2.4048 | 91.848 | .06369 | 452.36 | 14.223 | .37343 | 338.48 |
| #1 | 58.771 | .03429 | .18209 | .00215 | 37.508 | -.00094 | .00400 | 5.5560 | .00086 |
| #2 | 58.197 | .03482 | .17600 | .00046 | 37.474 | .00179 | .00327 | 5.5267 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3562** | **.00197** | **.00022** | **.00158** | W **-.05022** | **-.00053** | **.01851** | **.00438** |
| Stddev | .0016 | .00189 | .00015 | .00118 | .04891 | .00010 | .00030 | .00038 |
| %RSD | .11966 | 95.551 | 66.804 | 74.478 | 97.400 | 19.346 | 1.5958 | 8.7284 |
| #1 | 1.3573 | .00331 | .00012 | .00241 | -.08481 | -.00046 | .01872 | .00411 |
| #2 | 1.3550 | .00064 | .00033 | .00075 | -.01563 | -.00060 | .01830 | .00465 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5660.4** | **73278.** | **4245.3** |
| Stddev | 6.5 | 389. | 28.9 |
| %RSD | .11522 | .53133 | .68016 |
| #1 | 5655.8 | 73003. | 4224.9 |
| #2 | 5665.0 | 73553. | 4265.7 |

Sample Name: 280-42191-A-42-A  Acquired: 5/17/2013 1:25:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00173** | **.00118** | **.02075** | **7.8599** | **.09891** | **-.00016** | **-.00402** | **196.45** | **.00015** |
| Stddev | .00066 | .00022 | .00103 | .0016 | .00006 | .00005 | .00020 | 1.13 | .00016 |
| %RSD | 38.314 | 18.326 | 4.9423 | .02019 | .05602 | 27.475 | 5.0111 | .57577 | 103.32 |
| #1 | .00126 | .00103 | .02147 | 7.8611 | .09894 | -.00013 | -.00388 | 195.65 | .00027 |
| #2 | .00220 | .00133 | .02002 | 7.8588 | .09887 | -.00020 | -.00416 | 197.25 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01849** | **.00043** | **.60833** | **.33934** | **4.7632** | **.01382** | **64.701** | **.01602** | **.01372** |
| Stddev | .00015 | .00007 | .00143 | .00225 | .0175 | .00042 | .181 | .00001 | .00009 |
| %RSD | .79663 | 16.359 | .23518 | .66392 | .36689 | 3.0658 | .28050 | .07223 | .64514 |
| #1 | .01838 | .00048 | .60731 | .34094 | 4.7509 | .01412 | 64.573 | .01601 | .01365 |
| #2 | .01859 | .00038 | .60934 | .33775 | 4.7756 | .01352 | 64.829 | .01603 | .01378 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **41.979** | **.03933** | **.20041** | **.00100** | **48.158** | **-.00011** | **.00280** | **6.3587** | **-.00006** |
| Stddev | .019 | .00022 | .00024 | .00216 | .015 | .00164 | .00154 | .0090 | .00064 |
| %RSD | .04493 | .55149 | .11980 | 215.73 | .03066 | 1539.0 | 54.992 | .14129 | 1037.7 |
| #1 | 41.966 | .03918 | .20058 | .00252 | 48.147 | -.00127 | .00171 | 6.3523 | -.00052 |
| #2 | 41.992 | .03949 | .20024 | -.00053 | 48.168 | .00105 | .00389 | 6.3650 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3734** | **.00279** | **.00060** | **.00011** | W **-.06120** | **-.00082** | **.01148** | **.00266** |
| Stddev | .0216 | .00270 | .00023 | .00091 | .02268 | .00034 | .00031 | .00076 |
| %RSD | .63985 | 96.608 | 38.621 | 845.08 | 37.058 | 41.666 | 2.6907 | 28.716 |
| #1 | 3.3581 | .00470 | .00076 | .00075 | -.04516 | -.00107 | .01126 | .00212 |
| #2 | 3.3886 | .00088 | .00043 | -.00054 | -.07724 | -.00058 | .01170 | .00320 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5605.0** | **72388.** | **4246.9** |
| Stddev | 1.8 | 233. | 6.4 |
| %RSD | .03291 | .32238 | .15158 |
| #1 | 5603.7 | 72553. | 4251.4 |
| #2 | 5606.3 | 72223. | 4242.3 |

Sample Name: 280-42191-A-43-A  Acquired: 5/17/2013 1:27:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **.13348** | **.00236** | **.56077** | **.06309** | **-.00015** | **-.00328** | **129.61** | **.00022** |
| Stddev | .00027 | .00206 | .00287 | .00251 | .00034 | .00005 | .00069 | .58 | .00006 |
| %RSD | 19.856 | 1.5439 | 121.40 | .44743 | .54107 | 29.331 | 20.881 | .44434 | 26.001 |
| #1 | .00157 | .13494 | .00033 | .56254 | .06285 | -.00012 | -.00377 | 129.20 | .00018 |
| #2 | .00118 | .13203 | .00439 | .55900 | .06333 | -.00019 | -.00280 | 130.02 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00966** | **.00081** | **.00242** | **.49405** | **2.3531** | **.01064** | **43.354** | **.04998** | **.00541** |
| Stddev | .00027 | .00008 | .00005 | .00064 | .0049 | .00137 | .034 | .00006 | .00035 |
| %RSD | 2.7831 | 9.6723 | 2.0374 | .13018 | .20891 | 12.901 | .07744 | .12191 | 6.3923 |
| #1 | .00985 | .00087 | .00245 | .49360 | 2.3496 | .01161 | 43.330 | .04993 | .00517 |
| #2 | .00947 | .00076 | .00238 | .49451 | 2.3566 | .00967 | 43.378 | .05002 | .00565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **31.018** | **.00097** | **.21195** | **.00387** | **33.934** | **-.00144** | **.00841** | **6.1340** | **-.00023** |
| Stddev | .686 | .00019 | .00322 | .00027 | .014 | .00098 | .00554 | .0181 | .00001 |
| %RSD | 2.2109 | 19.431 | 1.5202 | 6.8560 | .04062 | 68.054 | 65.842 | .29553 | 4.8752 |
| #1 | 31.503 | .00084 | .20967 | .00368 | 33.924 | -.00213 | .00450 | 6.1212 | -.00022 |
| #2 | 30.533 | .00111 | .21423 | .00405 | 33.944 | -.00075 | .01233 | 6.1468 | -.00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90163** | **-.00053** | **.00341** | **-.00132** | **-.03732** | **-.00033** | **.01919** | **.00270** |
| Stddev | .00442 | .00020 | .00058 | .00025 | .01717 | .00029 | .00013 | .00190 |
| %RSD | .49044 | 37.169 | 17.035 | 18.799 | 46.005 | 90.548 | .66065 | 70.480 |
| #1 | .89851 | -.00039 | .00383 | -.00150 | -.04946 | -.00012 | .01910 | .00404 |
| #2 | .90476 | -.00067 | .00300 | -.00115 | -.02518 | -.00053 | .01928 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5665.8** | **72948.** | **4258.2** |
| Stddev | .2 | 19. | 18.6 |
| %RSD | .00355 | .02592 | .43791 |
| #1 | 5665.9 | 72935. | 4271.4 |
| #2 | 5665.6 | 72962. | 4245.0 |

Sample Name: 280-42191-A-44-A  Acquired: 5/17/2013 1:30:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00152** | **.04902** | **.07362** | **3.4530** | **.04474** | **-.00000** | **-.00244** | **24.706** | **.00008** |
| Stddev | .00023 | .00006 | .00155 | .0003 | .00021 | .00009 | .00086 | .039 | .00001 |
| %RSD | 14.893 | .12320 | 2.1024 | .00903 | .48034 | 10281. | 35.379 | .15650 | 14.498 |
| #1 | .00136 | .04897 | .07253 | 3.4532 | .04459 | -.00006 | -.00183 | 24.733 | .00007 |
| #2 | .00168 | .04906 | .07472 | 3.4528 | .04489 | .00006 | -.00305 | 24.679 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00852** | **.00064** | **2.7244** | **.38030** | **1.8658** | **.00742** | **7.9111** | **.05638** | **.03740** |
| Stddev | .00008 | .00026 | .0003 | .00208 | .0516 | .00019 | .0041 | .00012 | .00009 |
| %RSD | .94389 | 41.180 | .01109 | .54575 | 2.7665 | 2.5747 | .05180 | .21568 | .23411 |
| #1 | .00858 | .00045 | 2.7242 | .37883 | 1.8293 | .00756 | 7.9082 | .05647 | .03734 |
| #2 | .00847 | .00082 | 2.7246 | .38177 | 1.9023 | .00729 | 7.9140 | .05630 | .03747 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **185.49** | **.02614** | **.19891** | **.00292** | **16.360** | **-.00050** | **.00310** | **5.4049** | **.00069** |
| Stddev | .46 | .00012 | .00144 | .00174 | .029 | .00028 | .00031 | .0010 | .00018 |
| %RSD | .24650 | .45141 | .72484 | 59.483 | .17833 | 56.326 | 9.9929 | .01815 | 25.533 |
| #1 | 185.82 | .02622 | .19993 | .00169 | 16.381 | -.00030 | .00288 | 5.4042 | .00081 |
| #2 | 185.17 | .02605 | .19789 | .00414 | 16.339 | -.00070 | .00331 | 5.4056 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24229** | **.00089** | **.00053** | **-.00014** | **.00183** | **-.00070** | **.02769** | **.00344** |
| Stddev | .00021 | .00163 | .00046 | .00013 | .00721 | .00034 | .00009 | .00012 |
| %RSD | .08623 | 184.31 | 87.736 | 97.658 | 393.83 | 49.060 | .30743 | 3.5507 |
| #1 | .24244 | -.00027 | .00020 | -.00004 | .00693 | -.00095 | .02775 | .00353 |
| #2 | .24214 | .00204 | .00086 | -.00023 | -.00327 | -.00046 | .02763 | .00336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5745.7** | **73185.** | **4303.5** |
| Stddev | 7.2 | 90. | 2.8 |
| %RSD | .12572 | .12271 | .06447 |
| #1 | 5740.6 | 73122. | 4305.5 |
| #2 | 5750.8 | 73249. | 4301.6 |

Sample Name: 280-42191-A-45-A  Acquired: 5/17/2013 1:32:35  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **2.1631** | **.01106** | **.12252** | **.05451** | **.00002** | **-.00148** | **30.920** | **.00031** |
| Stddev | .00017 | .0031 | .00180 | .00142 | .00037 | .00009 | .00058 | .170 | .00027 |
| %RSD | 14.136 | .14465 | 16.280 | 1.1614 | .68317 | 446.62 | 38.848 | .55127 | 88.221 |
| #1 | .00133 | 2.1609 | .01233 | .12352 | .05477 | .00008 | -.00108 | 31.041 | .00012 |
| #2 | .00109 | 2.1653 | .00979 | .12151 | .05425 | -.00004 | -.00189 | 30.799 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **.00342** | **.06636** | **2.5407** | **13.141** | **.02408** | **7.5273** | **.06785** | **.00707** |
| Stddev | .00001 | .00019 | .00005 | .0111 | .036 | .00055 | .0160 | .00016 | .00013 |
| %RSD | .62293 | 5.4125 | .07989 | .43801 | .27749 | 2.2756 | .21325 | .24060 | 1.8310 |
| #1 | .00135 | .00329 | .06640 | 2.5485 | 13.167 | .02369 | 7.5387 | .06774 | .00716 |
| #2 | .00133 | .00355 | .06632 | 2.5328 | 13.116 | .02447 | 7.5160 | .06797 | .00697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.3145** | **.00489** | **.26356** | **.02713** | **2.5284** | **-.00167** | **.00068** | **8.2419** | **.00243** |
| Stddev | .0391 | .00008 | .00130 | .00069 | .0083 | .00055 | .00018 | .0221 | .00071 |
| %RSD | .73609 | 1.6406 | .49448 | 2.5361 | .33034 | 32.862 | 26.971 | .26784 | 29.117 |
| #1 | 5.3421 | .00483 | .26448 | .02761 | 2.5343 | -.00206 | .00081 | 8.2263 | .00293 |
| #2 | 5.2868 | .00495 | .26264 | .02664 | 2.5225 | -.00128 | .00055 | 8.2575 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19736** | **.00267** | **.06552** | **-.00054** | **-.03010** | **.00375** | **.17255** | **.00571** |
| Stddev | .00048 | .00406 | .00157 | .00004 | .00776 | .00008 | .00106 | .00157 |
| %RSD | .24153 | 152.12 | 2.3904 | 8.2552 | 25.779 | 1.9976 | .61519 | 27.556 |
| #1 | .19770 | .00553 | .06441 | -.00051 | -.03559 | .00381 | .17330 | .00459 |
| #2 | .19702 | -.00020 | .06663 | -.00057 | -.02462 | .00370 | .17180 | .00682 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5860.4** | **74512.** | **4397.5** |
| Stddev | 9.8 | 92. | 50.4 |
| %RSD | .16662 | .12341 | 1.1465 |
| #1 | 5853.5 | 74447. | 4361.9 |
| #2 | 5867.3 | 74577. | 4433.2 |

Sample Name: 280-42191-A-46-A  Acquired: 5/17/2013 1:34:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **.08017** | **.03603** | **49.722** | **.10409** | **-.00011** | **.00035** | **91.587** | **-.00029** |
| Stddev | .00020 | .00007 | .00116 | .091 | .00030 | .00006 | .00182 | .666 | .00022 |
| %RSD | 19.159 | .08251 | 3.2222 | .18206 | .29232 | 56.750 | 524.29 | .72697 | 75.995 |
| #1 | .00090 | .08012 | .03521 | 49.658 | .10388 | -.00006 | -.00094 | 91.116 | -.00045 |
| #2 | .00118 | .08022 | .03686 | 49.786 | .10431 | -.00015 | .00163 | 92.058 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03672** | **.00048** | **.08412** | **5.2896** | **3.9391** | **.01638** | **35.599** | **.10200** | **.02248** |
| Stddev | .00025 | .00017 | .00015 | .0066 | .0142 | .00326 | .108 | .00013 | .00048 |
| %RSD | .68874 | 35.779 | .17791 | .12528 | .35964 | 19.891 | .30396 | .12811 | 2.1522 |
| #1 | .03690 | .00036 | .08423 | 5.2849 | 3.9291 | .01407 | 35.675 | .10209 | .02214 |
| #2 | .03654 | .00061 | .08402 | 5.2943 | 3.9492 | .01868 | 35.522 | .10191 | .02283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **83.023** | **.00349** | **.23113** | **.00200** | **38.200** | **-.00319** | **-.00126** | **6.6662** | **.00012** |
| Stddev | .929 | .00030 | .00114 | .00018 | .027 | .00318 | .00076 | .0021 | .00037 |
| %RSD | 1.1191 | 8.6487 | .49391 | 9.0232 | .07130 | 99.552 | 60.211 | .03129 | 303.74 |
| #1 | 83.680 | .00328 | .23194 | .00213 | 38.181 | -.00544 | -.00072 | 6.6647 | .00038 |
| #2 | 82.366 | .00370 | .23032 | .00187 | 38.220 | -.00095 | -.00180 | 6.6677 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46705** | **.00983** | **-.00014** | **-.00039** | **-.02920** | **-.00053** | **.01785** | **.00297** |
| Stddev | .00405 | .00123 | .00007 | .00045 | .01557 | .00000 | .00001 | .00156 |
| %RSD | .86639 | 12.541 | 51.051 | 116.78 | 53.309 | .42661 | .03835 | 52.684 |
| #1 | .46419 | .01070 | -.00020 | -.00007 | -.04021 | -.00053 | .01784 | .00186 |
| #2 | .46991 | .00896 | -.00009 | -.00070 | -.01820 | -.00052 | .01785 | .00407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5676.3** | **72702.** | **4259.2** |
| Stddev | 6.0 | 372. | 30.0 |
| %RSD | .10641 | .51100 | .70501 |
| #1 | 5680.6 | 72440. | 4280.4 |
| #2 | 5672.1 | 72965. | 4237.9 |

Sample Name: 280-42191-A-47-A  Acquired: 5/17/2013 1:37:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00128** | **.00308** | **.00135** | **3.8732** | **.04849** | **-.00012** | **-.00151** | **126.26** | **.00223** |
| Stddev | .00003 | .00009 | .00170 | .0023 | .00041 | .00014 | .00064 | .57 | .00003 |
| %RSD | 2.6905 | 2.9715 | 125.89 | .05993 | .84633 | 118.99 | 42.787 | .45200 | 1.2868 |
| #1 | .00130 | .00302 | .00255 | 3.8749 | .04820 | -.00002 | -.00196 | 126.67 | .00221 |
| #2 | .00125 | .00315 | .00015 | 3.8716 | .04878 | -.00022 | -.00105 | 125.86 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00348** | **.00115** | **.01592** | **.65227** | **4.9230** | **.01987** | **29.476** | **.26115** | **.00626** |
| Stddev | .00009 | .00009 | .00001 | .01210 | .0674 | .00109 | .051 | .00069 | .00008 |
| %RSD | 2.4407 | 7.6630 | .04561 | 1.8547 | 1.3692 | 5.4622 | .17240 | .26331 | 1.2050 |
| #1 | .00342 | .00109 | .01593 | .66083 | 4.8753 | .02064 | 29.440 | .26066 | .00631 |
| #2 | .00354 | .00121 | .01592 | .64372 | 4.9706 | .01910 | 29.511 | .26163 | .00620 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.326** | **.03247** | **.18707** | **.00201** | **48.177** | **.00124** | **.00237** | **3.0313** | **.00054** |
| Stddev | .081 | .00006 | .00088 | .00160 | .009 | .00045 | .00245 | .0120 | .00067 |
| %RSD | .53079 | .19950 | .47136 | 79.491 | .01779 | 36.185 | 103.51 | .39668 | 123.56 |
| #1 | 15.383 | .03242 | .18770 | .00315 | 48.171 | .00092 | .00063 | 3.0398 | .00007 |
| #2 | 15.268 | .03252 | .18645 | .00088 | 48.183 | .00156 | .00410 | 3.0228 | .00101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36621** | **.00035** | **.00056** | **.00173** | **-.04805** | **-.00080** | **7.6960** | **.00269** |
| Stddev | .00123 | .00118 | .00019 | .00050 | .04160 | .00000 | .0190 | .00084 |
| %RSD | .33676 | 341.32 | 34.059 | 29.025 | 86.582 | .40521 | .24737 | 31.276 |
| #1 | .36708 | .00118 | .00069 | .00138 | -.07747 | -.00080 | 7.6825 | .00209 |
| #2 | .36534 | -.00049 | .00042 | .00209 | -.01863 | -.00080 | 7.7094 | .00328 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5654.3** | **73134.** | **4291.8** |
| Stddev | 8.1 | 20. | 15.8 |
| %RSD | .14336 | .02695 | .36834 |
| #1 | 5660.0 | 73148. | 4280.6 |
| #2 | 5648.6 | 73120. | 4302.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 1:39:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **47.625** | **.00065** | **.05833** | **-.00082** | **-.00006** | **1.0047** | **.00610** | **-.00067** | **.00211** | **.00022** | **-.00105** | **45.297** |
| Stddev | .00011 | .172 | .00083 | .00367 | .00004 | .00002 | .0019 | .00224 | .00014 | .00016 | .00002 | .00021 | .031 |
| %RSD | 12.397 | .36218 | 126.57 | 6.2938 | 5.0432 | 38.548 | .18378 | 36.775 | 21.103 | 7.6760 | 6.9365 | 20.070 | .06790 |
| #1 | .00094 | 47.747 | .00124 | .06093 | -.00085 | -.00008 | 1.0034 | .00769 | -.00077 | .00199 | .00023 | -.00090 | 45.275 |
| #2 | .00079 | 47.503 | .00007 | .05574 | -.00079 | -.00005 | 1.0060 | .00452 | -.00057 | .00222 | .00021 | -.00120 | 45.318 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07562** | **-.00430** | **.00852** | **-.00014** | **-.00199** | **270.92** | **.00141** | **.00716** | **.00079** | **5.1519** | **-.00017** | **.00499** | **.00289** |
| Stddev | .01278 | .00303 | .00008 | .00002 | .00017 | 1.99 | .00013 | .00280 | .00119 | .0148 | .00178 | .00266 | .00951 |
| %RSD | 16.902 | 70.499 | .97228 | 10.776 | 8.6210 | .73299 | 9.4109 | 39.133 | 150.82 | .28791 | 1050.5 | 53.262 | 329.15 |
| #1 | .06658 | -.00644 | .00858 | -.00015 | -.00212 | 272.32 | .00151 | .00914 | .00164 | 5.1414 | .00109 | .00688 | .00961 |
| #2 | .08465 | -.00215 | .00846 | -.00013 | -.00187 | 269.51 | .00132 | .00518 | -.00005 | 5.1624 | -.00143 | .00311 | -.00383 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **.00038** | **5.0762** | **.00256** | **-.00148** | **10.099** | **-.00169** | **.00278** | **-.04543** |
| Stddev | .00006 | .00002 | .0005 | .00006 | .00014 | .060 | .00061 | .00004 | .00106 |
| %RSD | 4.6857 | 4.9328 | .01035 | 2.4269 | 9.3428 | .59588 | 35.996 | 1.5024 | 2.3289 |
| #1 | .00126 | .00040 | 5.0765 | .00252 | -.00158 | 10.142 | -.00212 | .00281 | -.04618 |
| #2 | .00118 | .00037 | 5.0758 | .00260 | -.00138 | 10.057 | -.00126 | .00275 | -.04469 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5745.1** | **72682.** | **4308.6** |
| Stddev | 9.1 | 267. | 10.7 |
| %RSD | .15874 | .36696 | .24792 |
| #1 | 5738.7 | 72494. | 4301.0 |
| #2 | 5751.6 | 72871. | 4316.1 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 1:42:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50413** | **.49200** | **1.0092** | F **.55724** | **.50951** | **.46544** | **.00269** | **4.7861** | **.50124** | **.51154** | **.49890** | **.49344** |
| Stddev | .00075 | .00111 | .0008 | .00150 | .00142 | .00196 | .00083 | .0073 | .00057 | .00009 | .00066 | .00077 |
| %RSD | .14941 | .22495 | .08292 | .26981 | .27904 | .42175 | 30.819 | .15200 | .11316 | .01857 | .13162 | .15607 |
| #1 | .50466 | .49122 | 1.0098 | .55831 | .51052 | .46683 | .00327 | 4.7912 | .50164 | .51161 | .49936 | .49399 |
| #2 | .50360 | .49278 | 1.0086 | .55618 | .50851 | .46405 | .00210 | 4.7809 | .50084 | .51147 | .49844 | .49290 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .50000 | | | | | | | | |
| Range | | | | 10.000% | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2147** | **53.227** | **1.0645** | **19.594** | **.50133** | **.49613** | **5.1199** | **.50901** | **1.0237** | **1.0102** | **-.01479** | **1.0144** |
| Stddev | .0077 | .357 | .0028 | .049 | .00001 | .00128 | .0264 | .00093 | .0030 | .0019 | .00004 | .0007 |
| %RSD | .34873 | .67144 | .25895 | .25247 | .00122 | .25891 | .51501 | .18247 | .29531 | .19052 | .28871 | .06575 |
| #1 | 2.2202 | 53.479 | 1.0665 | 19.629 | .50133 | .49522 | 5.1385 | .50835 | 1.0216 | 1.0088 | -.01476 | 1.0139 |
| #2 | 2.2093 | 52.974 | 1.0626 | 19.559 | .50133 | .49704 | 5.1012 | .50966 | 1.0259 | 1.0116 | -.01482 | 1.0148 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0348** | **4.5569** | **.98328** | **.51366** | **.00191** | **.49676** | **.98105** | **-.02098** | **.49194** | **.49046** | **.48144** |
| Stddev | .0017 | .0346 | .00052 | .00295 | .00333 | .00112 | .00009 | .00427 | .00025 | .00088 | .00437 |
| %RSD | .16782 | .75969 | .05320 | .57394 | 174.81 | .22594 | .00898 | 20.374 | .05123 | .17991 | .90723 |
| #1 | 1.0360 | 4.5324 | .98365 | .51574 | -.00045 | .49597 | .98099 | -.01796 | .49212 | .48984 | .48453 |
| #2 | 1.0335 | 4.5813 | .98291 | .51157 | .00426 | .49756 | .98111 | -.02400 | .49176 | .49108 | .47835 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5794.5** | **73560.** | **4300.5** |
| Stddev | 4.7 | 328. | 10.9 |
| %RSD | .08164 | .44545 | .25422 |
| #1 | 5791.2 | 73328. | 4292.8 |
| #2 | 5797.9 | 73792. | 4308.2 |

Sample Name: CCB Acquired: 5/17/2013 1:44:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00122** | **-.00014** | **.00260** | F **.02969** | W **-.00097** | **-.00006** | **.00208** | **-.00524** | **-.00015** | **.00008** | **.00032** |
| Stddev | .00052 | .00013 | .00230 | .00182 | .00014 | .00002 | .00070 | .00211 | .00010 | .00024 | .00002 |
| %RSD | 42.989 | 92.382 | 88.685 | 6.1387 | 14.986 | 29.011 | 33.909 | 40.153 | 67.955 | 311.79 | 6.7215 |
| #1 | .00085 | -.00005 | .00097 | .03098 | -.00086 | -.00007 | .00158 | -.00673 | -.00022 | -.00009 | .00031 |
| #2 | .00159 | -.00022 | .00423 | .02840 | -.00107 | -.00005 | .00258 | -.00375 | -.00008 | .00024 | .00034 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00075** | **-.00403** | **.06253** | W **-.00409** | **.00150** | **-.00011** | **-.00026** | **-.00122** | **.00011** | **-.00005** | **-.00041** |
| Stddev | .00036 | .00184 | .02726 | .00022 | .00169 | .00001 | .00010 | .01463 | .00067 | .00099 | .00028 |
| %RSD | 47.539 | 45.674 | 43.602 | 5.4399 | 112.68 | 11.765 | 38.702 | 1198.8 | 616.10 | 2073.3 | 67.827 |
| #1 | -.00100 | -.00534 | .08181 | -.00393 | .00031 | -.00011 | -.00033 | -.01156 | .00059 | -.00075 | -.00061 |
| #2 | -.00050 | -.00273 | .04325 | -.00425 | .00270 | -.00010 | -.00019 | .00912 | -.00037 | .00065 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01529** | **-.00120** | **.00212** | **-.00821** | **-.00026** | **.00007** | **.00212** | **-.00007** | **.00030** | **-.01526** | **-.00081** |
| Stddev | .00062 | .00026 | .00106 | .02160 | .00024 | .00007 | .00179 | .00002 | .00020 | .00832 | .00077 |
| %RSD | 4.0771 | 21.353 | 50.117 | 262.99 | 92.455 | 92.271 | 84.392 | 30.604 | 66.362 | 54.514 | 94.836 |
| #1 | -.01573 | -.00102 | .00287 | .00706 | -.00009 | .00012 | .00086 | -.00006 | .00044 | -.00938 | -.00135 |
| #2 | -.01484 | -.00138 | .00137 | -.02348 | -.00043 | .00002 | .00339 | -.00009 | .00016 | -.02114 | -.00027 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00209** | **.00175** |
| Stddev | .00029 | .00137 |
| %RSD | 13.741 | 78.605 |
| #1 | .00188 | .00078 |
| #2 | .00229 | .00272 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5873.4** | **74406.** | **4287.9** |
| Stddev | 2.3 | 279. | .1 |
| %RSD | .03916 | .37495 | .00247 |
| #1 | 5875.0 | 74603. | 4287.9 |
| #2 | 5871.8 | 74208. | 4287.8 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 1:46:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01180** | **.10325** | **.01573** | W **.12952** | **.00993** | **.00088** | **.10323** | **.19127** | **.00521** | **.01073** | **.01030** |
| Stddev | .00035 | .00001 | .00318 | .00059 | .00022 | .00001 | .00432 | .00069 | .00017 | .00027 | .00003 |
| %RSD | 2.9494 | .01388 | 20.232 | .45572 | 2.2589 | 1.4677 | 4.1882 | .36208 | 3.1789 | 2.4842 | .33858 |
| #1 | .01155 | .10324 | .01348 | .12994 | .00977 | .00089 | .10629 | .19078 | .00533 | .01092 | .01032 |
| #2 | .01205 | .10326 | .01798 | .12910 | .01009 | .00087 | .10018 | .19176 | .00509 | .01054 | .01027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .10000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01380** | **.08731** | **3.3198** | **.00814** | **.20444** | **.01025** | **.01970** | **1.0601** | **.04146** | **3.0162** | **.00844** |
| Stddev | .00017 | .00258 | .0074 | .00102 | .00515 | .00002 | .00018 | .0182 | .00014 | .0023 | .00011 |
| %RSD | 1.2047 | 2.9519 | .22173 | 12.570 | 2.5210 | .17360 | .90283 | 1.7200 | .34766 | .07696 | 1.2696 |
| #1 | .01368 | .08914 | 3.3250 | .00886 | .20808 | .01024 | .01983 | 1.0472 | .04156 | 3.0145 | .00836 |
| #2 | .01392 | .08549 | 3.3146 | .00742 | .20079 | .01026 | .01958 | 1.0730 | .04135 | 3.0178 | .00851 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01696** | **.01015** | **.01423** | **.46871** | **.09992** | **.01059** | **.01790** | **.00977** | **.01360** | F **.03432** | **.00896** |
| Stddev | .00246 | .00274 | .00222 | .01414 | .00064 | .00005 | .00258 | .00042 | .00049 | .03474 | .00055 |
| %RSD | 14.515 | 27.021 | 15.580 | 3.0166 | .64186 | .47863 | 14.386 | 4.2678 | 3.5975 | 101.24 | 6.1286 |
| #1 | -.01870 | .00821 | .01580 | .47871 | .09947 | .01063 | .01608 | .01006 | .01326 | .00975 | .00857 |
| #2 | -.01522 | .01209 | .01266 | .45872 | .10037 | .01056 | .01972 | .00947 | .01395 | .05889 | .00935 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02567** | **.01771** |
| Stddev | .00002 | .00090 |
| %RSD | .06256 | 5.0614 |
| #1 | .02566 | .01834 |
| #2 | .02568 | .01707 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5864.0** | **74085.** | **4294.2** |
| Stddev | 2.1 | 88. | 22.6 |
| %RSD | .03581 | .11911 | .52539 |
| #1 | 5865.5 | 74147. | 4278.2 |
| #2 | 5862.5 | 74022. | 4310.1 |

Sample Name: 280-42191-A-48-A  Acquired: 5/17/2013 1:49:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.01755** | **.00124** | **1.7323** | **.07027** | **-.00007** | **-.00078** | **140.19** | **.00114** |
| Stddev | .00024 | .00037 | .00144 | .0016 | .00015 | .00002 | .00372 | 1.09 | .00001 |
| %RSD | 51.214 | 2.0994 | 116.33 | .09148 | .21593 | 23.482 | 478.63 | .77482 | 1.1418 |
| #1 | .00030 | .01729 | .00225 | 1.7311 | .07017 | -.00008 | .00185 | 140.96 | .00113 |
| #2 | .00064 | .01781 | .00022 | 1.7334 | .07038 | -.00006 | -.00341 | 139.42 | .00115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00054** | **.00436** | **.03631** | **1.4640** | **.00218** | **31.981** | **.03118** | **.00380** |
| Stddev | .00009 | .00002 | .00055 | .00100 | .0038 | .00072 | .054 | .00000 | .00012 |
| %RSD | 17.835 | 3.7208 | 12.526 | 2.7677 | .25928 | 33.047 | .16854 | .00822 | 3.1453 |
| #1 | .00044 | .00052 | .00397 | .03560 | 1.4613 | .00269 | 32.019 | .03117 | .00389 |
| #2 | .00057 | .00055 | .00475 | .03702 | 1.4667 | .00167 | 31.943 | .03118 | .00372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.454** | **.00748** | **.18731** | **.00140** | **17.617** | **-.00008** | **.00132** | **5.5437** | **-.00015** |
| Stddev | .298 | .00024 | .00004 | .00061 | .014 | .00001 | .00047 | .0144 | .00047 |
| %RSD | 2.3960 | 3.1962 | .02297 | 43.925 | .07881 | 8.7498 | 35.626 | .26036 | 312.42 |
| #1 | 12.243 | .00731 | .18734 | .00096 | 17.607 | -.00008 | .00166 | 5.5540 | .00018 |
| #2 | 12.665 | .00765 | .18728 | .00183 | 17.627 | -.00009 | .00099 | 5.5335 | -.00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20058** | **-.00145** | **.00075** | **-.00041** | **-.03715** | **-.00043** | **7.1385** | **.00142** |
| Stddev | .00172 | .00108 | .00027 | .00057 | .01574 | .00011 | .0206 | .00132 |
| %RSD | .85677 | 74.298 | 35.552 | 140.50 | 42.361 | 26.356 | .28842 | 92.502 |
| #1 | .20179 | -.00069 | .00093 | -.00082 | -.04828 | -.00035 | 7.1531 | .00236 |
| #2 | .19936 | -.00222 | .00056 | -.00000 | -.02602 | -.00051 | 7.1240 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5662.2** | **72397.** | **4261.7** |
| Stddev | 5.3 | 353. | 29.0 |
| %RSD | .09318 | .48718 | .68145 |
| #1 | 5658.5 | 72148. | 4241.2 |
| #2 | 5665.9 | 72647. | 4282.3 |

Sample Name: sd 42191-A-48-A@5 Acquired: 5/17/2013 1:51:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00141** | **.00389** | **.00372** | **.35950** | **.01365** | **-.00003** | **-.00012** | **28.217** | **.00015** |
| Stddev | .00056 | .00010 | .00021 | .00095 | .00032 | .00011 | .00041 | .127 | .00003 |
| %RSD | 39.402 | 2.5938 | 5.7047 | .26335 | 2.3090 | 333.61 | 351.14 | .45073 | 21.377 |
| #1 | .00102 | .00396 | .00357 | .36017 | .01387 | .00004 | .00018 | 28.307 | .00013 |
| #2 | .00180 | .00381 | .00387 | .35883 | .01343 | -.00011 | -.00041 | 28.127 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00022** | **.00013** | **.01995** | **.23744** | **-.00340** | **6.4942** | **.00635** | **.00062** |
| Stddev | .00002 | .00021 | .00016 | .00333 | .03484 | .00267 | .0209 | .00002 | .00001 |
| %RSD | 6.5429 | 91.679 | 122.94 | 16.696 | 14.675 | 78.496 | .32227 | .35850 | .99660 |
| #1 | .00035 | .00008 | .00025 | .01759 | .21280 | -.00151 | 6.5090 | .00636 | .00061 |
| #2 | .00039 | .00037 | .00002 | .02231 | .26208 | -.00528 | 6.4794 | .00633 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2172** | **.00202** | **.03712** | **.00189** | **3.4454** | **-.00146** | **-.00183** | **1.0983** | **-.00049** |
| Stddev | .0217 | .00025 | .00039 | .00095 | .0100 | .00079 | .00444 | .0110 | .00048 |
| %RSD | .97905 | 12.268 | 1.0555 | 50.553 | .29015 | 53.902 | 243.16 | 1.0022 | 99.818 |
| #1 | 2.2326 | .00184 | .03684 | .00121 | 3.4525 | -.00202 | -.00497 | 1.0905 | -.00014 |
| #2 | 2.2019 | .00219 | .03740 | .00256 | 3.4383 | -.00090 | .00131 | 1.1061 | -.00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04057** | **.00057** | **-.00007** | **-.00095** | W **-.05053** | **-.00120** | **1.4834** | **.00196** |
| Stddev | .00004 | .00007 | .00026 | .00035 | .02871 | .00026 | .0130 | .00253 |
| %RSD | .09191 | 12.812 | 376.80 | 36.653 | 56.816 | 21.369 | .87870 | 128.85 |
| #1 | .04054 | .00062 | -.00025 | -.00070 | -.07083 | -.00138 | 1.4926 | .00017 |
| #2 | .04059 | .00052 | .00011 | -.00119 | -.03023 | -.00102 | 1.4742 | .00375 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5825.5** | **73873.** | **4270.4** |
| Stddev | 1.5 | 383. | 29.3 |
| %RSD | .02640 | .51805 | .68719 |
| #1 | 5824.4 | 73603. | 4249.7 |
| #2 | 5826.6 | 74144. | 4291.2 |

Sample Name: 280-42191-A-48-B MS Acquired: 5/17/2013 1:54:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05380** | **1.8932** | **1.0148** | **2.7717** | **2.1418** | **.04732** | **2.0436** | **184.24** | **.10392** |
| Stddev | .00009 | .0012 | .0076 | .0001 | .0102 | .00018 | .0007 | .29 | .00042 |
| %RSD | .16873 | .06461 | .74359 | .00278 | .47455 | .38971 | .03535 | .15918 | .40223 |
| #1 | .05373 | 1.8923 | 1.0095 | 2.7717 | 2.1346 | .04745 | 2.0441 | 184.04 | .10422 |
| #2 | .05386 | 1.8940 | 1.0202 | 2.7716 | 2.1490 | .04719 | 2.0431 | 184.45 | .10363 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49312** | **.19788** | **.25212** | **.90072** | **55.706** | **1.0790** | **79.614** | **.52010** | **.98854** |
| Stddev | .00042 | .00010 | .00022 | .00082 | .022 | .0019 | .037 | .00004 | .00020 |
| %RSD | .08438 | .05061 | .08759 | .09049 | .03975 | .17689 | .04621 | .00679 | .02005 |
| #1 | .49341 | .19781 | .25196 | .90015 | 55.690 | 1.0777 | 79.588 | .52008 | .98840 |
| #2 | .49282 | .19795 | .25228 | .90130 | 55.722 | 1.0804 | 79.640 | .52013 | .98868 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **67.999** | **.49218** | **10.654** | **.49161** | **17.723** | **.51350** | **2.0680** | **14.635** | **1.9335** |
| Stddev | .691 | .00051 | .016 | .00084 | .016 | .00035 | .0062 | .000 | .0004 |
| %RSD | 1.0169 | .10308 | .15024 | .17015 | .08944 | .06752 | .29876 | .00277 | .02152 |
| #1 | 68.488 | .49254 | 10.665 | .49220 | 17.735 | .51325 | 2.0724 | 14.635 | 1.9332 |
| #2 | 67.510 | .49182 | 10.643 | .49102 | 17.712 | .51374 | 2.0636 | 14.635 | 1.9337 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2258** | **1.0171** | **.99559** | **1.9096** | **2.0149** | **.49536** | **7.4494** | **.47071** |
| Stddev | .0020 | .0032 | .00181 | .0014 | .0368 | .00066 | .0031 | .00016 |
| %RSD | .15952 | .30992 | .18154 | .07494 | 1.8285 | .13381 | .04165 | .03293 |
| #1 | 1.2244 | 1.0193 | .99431 | 1.9086 | 2.0410 | .49489 | 7.4472 | .47060 |
| #2 | 1.2272 | 1.0148 | .99687 | 1.9106 | 1.9889 | .49583 | 7.4516 | .47082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5566.4** | **71360.** | **4209.4** |
| Stddev | 12.4 | 166. | 5.5 |
| %RSD | .22360 | .23327 | .13082 |
| #1 | 5557.6 | 71478. | 4205.5 |
| #2 | 5575.2 | 71243. | 4213.3 |

Sample Name: 280-42191-A-48-C MSD Acquired: 5/17/2013 1:56:19 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05380** | **1.8970** | **1.0181** | **2.7770** | **2.1317** | **.04703** | **2.0509** | **184.38** | **.10409** |
| Stddev | .00045 | .0036 | .0054 | .0016 | .0184 | .00014 | .0025 | 1.06 | .00033 |
| %RSD | .83957 | .19111 | .53450 | .05720 | .86275 | .30391 | .12096 | .57379 | .31619 |
| #1 | .05348 | 1.8944 | 1.0142 | 2.7758 | 2.1187 | .04693 | 2.0527 | 183.63 | .10386 |
| #2 | .05412 | 1.8996 | 1.0219 | 2.7781 | 2.1447 | .04714 | 2.0492 | 185.13 | .10432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49449** | **.19813** | **.25124** | **.90680** | **55.909** | **1.0805** | **79.512** | **.52012** | **.99281** |
| Stddev | .00163 | .00011 | .00033 | .01144 | .257 | .0046 | .007 | .00059 | .00182 |
| %RSD | .33046 | .05324 | .13103 | 1.2613 | .46048 | .42581 | .00823 | .11312 | .18299 |
| #1 | .49333 | .19821 | .25101 | .89871 | 55.727 | 1.0772 | 79.517 | .52053 | .99153 |
| #2 | .49564 | .19806 | .25147 | .91489 | 56.091 | 1.0837 | 79.508 | .51970 | .99410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **67.871** | **.49284** | **10.696** | **.49098** | **17.746** | **.51382** | **2.0691** | **14.757** | **1.9370** |
| Stddev | .015 | .00002 | .006 | .00443 | .009 | .00087 | .0014 | .040 | .0032 |
| %RSD | .02256 | .00501 | .05244 | .90290 | .05332 | .16991 | .06859 | .27425 | .16624 |
| #1 | 67.882 | .49286 | 10.692 | .49411 | 17.739 | .51321 | 2.0681 | 14.729 | 1.9347 |
| #2 | 67.860 | .49282 | 10.700 | .48784 | 17.753 | .51444 | 2.0701 | 14.786 | 1.9393 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2277** | **1.0214** | **.99704** | **1.9128** | **2.0158** | **.49469** | **7.4388** | **.46902** |
| Stddev | .0078 | .0055 | .00007 | .0032 | .0004 | .00038 | .0157 | .00289 |
| %RSD | .63820 | .53831 | .00658 | .16652 | .02069 | .07691 | .21104 | .61640 |
| #1 | 1.2222 | 1.0253 | .99700 | 1.9106 | 2.0155 | .49496 | 7.4499 | .46697 |
| #2 | 1.2333 | 1.0175 | .99709 | 1.9151 | 2.0161 | .49442 | 7.4277 | .47106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5568.1** | **71228.** | **4211.3** |
| Stddev | 3.2 | 218. | 17.4 |
| %RSD | .05722 | .30638 | .41356 |
| #1 | 5570.4 | 71073. | 4223.6 |
| #2 | 5565.9 | 71382. | 4199.0 |

Sample Name: 280-42191-A-49-A Acquired: 5/17/2013 1:58:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00157** | **.00240** | **.00388** | **.02038** | **-.00062** | **-.00010** | **-.00120** | **.01995** | **-.00011** |
| Stddev | .00052 | .00008 | .00276 | .00112 | .00020 | .00007 | .00024 | .00482 | .00012 |
| %RSD | 33.295 | 3.1547 | 71.151 | 5.4824 | 32.291 | 69.201 | 19.716 | 24.178 | 108.43 |
| #1 | .00194 | .00246 | .00193 | .02117 | -.00076 | -.00015 | -.00137 | .01654 | -.00003 |
| #2 | .00120 | .00235 | .00584 | .01959 | -.00047 | -.00005 | -.00103 | .02337 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00017** | **.00388** | **.00389** | **.10469** | **-.00348** | **.00692** | **.00007** | **-.00012** |
| Stddev | .00005 | .00023 | .00046 | .00115 | .05254 | .00024 | .00238 | .00002 | .00002 |
| %RSD | 186.92 | 134.44 | 11.925 | 29.669 | 50.182 | 7.0368 | 34.338 | 29.514 | 12.111 |
| #1 | .00007 | .00034 | .00356 | .00470 | .14184 | -.00330 | .00861 | .00006 | -.00014 |
| #2 | -.00001 | .00001 | .00421 | .00307 | .06754 | -.00365 | .00524 | .00009 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01931** | **.00040** | **.19022** | **-.00020** | **-.01561** | **.00101** | **-.00000** | **.01954** | **-.00006** |
| Stddev | .01081 | .00024 | .00059 | .00136 | .00357 | .00127 | .00232 | .01751 | .00027 |
| %RSD | 55.994 | 60.183 | .31008 | 685.47 | 22.838 | 126.01 | 49577. | 89.584 | 450.60 |
| #1 | .01166 | .00057 | .18980 | -.00116 | -.01813 | .00190 | .00164 | .03192 | .00013 |
| #2 | .02696 | .00023 | .19063 | .00076 | -.01309 | .00011 | -.00165 | .00716 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00084** | **-.00044** | **-.00116** | **.00516** | **-.00096** | **.00684** | **.00367** |
| Stddev | .00001 | .00046 | .00002 | .00107 | .03472 | .00057 | .00038 | .00206 |
| %RSD | 4.1583 | 54.679 | 3.7647 | 92.234 | 672.67 | 59.197 | 5.5463 | 56.224 |
| #1 | .00013 | .00052 | -.00045 | -.00040 | .02971 | -.00056 | .00711 | .00513 |
| #2 | .00014 | .00117 | -.00043 | -.00192 | -.01939 | -.00136 | .00657 | .00221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5866.3** | **74536.** | **4325.4** |
| Stddev | 1.7 | 379. | 31.8 |
| %RSD | .02857 | .50897 | .73523 |
| #1 | 5867.4 | 74267. | 4347.9 |
| #2 | 5865.1 | 74804. | 4303.0 |

Sample Name: 280-42191-A-50-A  Acquired: 5/17/2013 2:01:03  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **.00808** | **.01679** | **.08417** | **.18046** | **-.00010** | **-.00317** | **110.77** | **.00035** |
| Stddev | .00068 | .00023 | .00276 | .00070 | .00064 | .00009 | .00019 | .29 | .00013 |
| %RSD | 75.914 | 2.7914 | 16.437 | .83202 | .35254 | 93.196 | 5.8824 | .26090 | 38.321 |
| #1 | .00137 | .00824 | .01484 | .08466 | .18001 | -.00003 | -.00304 | 110.98 | .00025 |
| #2 | .00041 | .00792 | .01874 | .08367 | .18091 | -.00016 | -.00330 | 110.57 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **.00045** | **.00048** | **3.0012** | **1.7762** | **.00692** | **41.457** | **.05578** | **.00753** |
| Stddev | .00014 | .00006 | .00057 | .0125 | .0680 | .00076 | .082 | .00009 | .00035 |
| %RSD | 15.102 | 13.284 | 119.68 | .41736 | 3.8271 | 10.976 | .19686 | .16683 | 4.7161 |
| #1 | .00082 | .00041 | .00088 | 3.0101 | 1.8243 | .00638 | 41.514 | .05584 | .00778 |
| #2 | .00101 | .00050 | .00007 | 2.9923 | 1.7281 | .00746 | 41.399 | .05571 | .00728 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.926** | **.00105** | **.20870** | **.00217** | **27.734** | **.00006** | **.00265** | **7.7242** | **.00029** |
| Stddev | .228 | .00012 | .00168 | .00160 | .009 | .00263 | .00047 | .0400 | .00072 |
| %RSD | 1.7660 | 11.891 | .80650 | 73.718 | .03196 | 4654.1 | 17.742 | .51778 | 247.69 |
| #1 | 13.087 | .00096 | .20989 | .00104 | 27.741 | .00192 | .00298 | 7.7524 | .00080 |
| #2 | 12.764 | .00114 | .20751 | .00330 | 27.728 | -.00180 | .00232 | 7.6959 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7890** | **.00357** | **.00015** | **.00005** | **-.04062** | **-.00119** | **.01396** | **.00490** |
| Stddev | .0056 | .00134 | .00011 | .00084 | .03431 | .00012 | .00022 | .00206 |
| %RSD | .20012 | 37.549 | 77.718 | 1743.9 | 84.465 | 10.000 | 1.5968 | 42.015 |
| #1 | 2.7929 | .00452 | .00023 | -.00055 | -.01636 | -.00110 | .01380 | .00636 |
| #2 | 2.7850 | .00262 | .00007 | .00064 | -.06488 | -.00127 | .01412 | .00345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5653.2** | **72372.** | **4250.6** |
| Stddev | 6.0 | 194. | 15.1 |
| %RSD | .10595 | .26742 | .35554 |
| #1 | 5648.9 | 72235. | 4239.9 |
| #2 | 5657.4 | 72509. | 4261.3 |

Sample Name: 280-42191-A-50-B MS Acquired: 5/17/2013 2:03:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05396** | **1.9022** | **1.0478** | **1.1432** | **2.2642** | **.04760** | **2.0742** | **156.83** | **.10442** |
| Stddev | .00105 | .0053 | .0013 | .0021 | .0057 | .00000 | .0024 | .58 | .00014 |
| %RSD | 1.9379 | .27617 | .12041 | .18445 | .25097 | .01015 | .11327 | .36818 | .13619 |
| #1 | .05322 | 1.9059 | 1.0469 | 1.1447 | 2.2602 | .04760 | 2.0759 | 156.43 | .10453 |
| #2 | .05470 | 1.8985 | 1.0487 | 1.1417 | 2.2682 | .04761 | 2.0726 | 157.24 | .10432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50171** | **.20164** | **.24985** | **3.8301** | **56.407** | **1.0902** | **89.852** | **.54988** | **1.0078** |
| Stddev | .00104 | .00013 | .00120 | .0046 | .104 | .0022 | .022 | .00007 | .0002 |
| %RSD | .20661 | .06231 | .47850 | .12000 | .18359 | .19929 | .02431 | .01199 | .02394 |
| #1 | .50244 | .20155 | .24901 | 3.8334 | 56.334 | 1.0887 | 89.836 | .54983 | 1.0080 |
| #2 | .50097 | .20173 | .25070 | 3.8269 | 56.481 | 1.0917 | 89.867 | .54993 | 1.0077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.701** | **.49426** | **10.800** | **.49833** | **28.066** | **.51887** | **2.0971** | **16.892** | **1.9666** |
| Stddev | .218 | .00010 | .017 | .00033 | .024 | .00181 | .0058 | .029 | .0004 |
| %RSD | .31768 | .02027 | .15349 | .06678 | .08513 | .34924 | .27618 | .17111 | .01974 |
| #1 | 68.547 | .49434 | 10.812 | .49856 | 28.083 | .52016 | 2.1012 | 16.871 | 1.9663 |
| #2 | 68.856 | .49419 | 10.788 | .49809 | 28.049 | .51759 | 2.0930 | 16.912 | 1.9668 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8129** | **1.0252** | **.99985** | **1.9408** | **2.0147** | **.49901** | **.48790** | **.47592** |
| Stddev | .0169 | .0010 | .00111 | .0034 | .0553 | .00063 | .00166 | .00256 |
| %RSD | .44288 | .09719 | .11127 | .17303 | 2.7430 | .12665 | .34101 | .53745 |
| #1 | 3.8010 | 1.0259 | .99906 | 1.9432 | 1.9757 | .49857 | .48908 | .47773 |
| #2 | 3.8249 | 1.0245 | 1.0006 | 1.9384 | 2.0538 | .49946 | .48672 | .47411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5550.4** | **71249.** | **4192.1** |
| Stddev | 2.7 | 274. | 9.7 |
| %RSD | .04918 | .38431 | .23172 |
| #1 | 5548.5 | 71055. | 4199.0 |
| #2 | 5552.3 | 71442. | 4185.3 |

Sample Name: 280-42191-A-50-C MSD Acquired: 5/17/2013 2:05:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05319** | **1.8907** | **1.0400** | **1.1335** | **2.2598** | **.04758** | **2.0549** | **156.71** | **.10338** |
| Stddev | .00034 | .0004 | .0018 | .0010 | .0165 | .00002 | .0072 | 1.30 | .00032 |
| %RSD | .63806 | .02121 | .17091 | .09124 | .72963 | .03473 | .34901 | .82994 | .30799 |
| #1 | .05295 | 1.8910 | 1.0388 | 1.1342 | 2.2481 | .04757 | 2.0499 | 155.79 | .10361 |
| #2 | .05343 | 1.8904 | 1.0413 | 1.1327 | 2.2714 | .04759 | 2.0600 | 157.63 | .10315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49671** | **.19994** | **.25027** | **3.8295** | **55.973** | **1.0829** | **90.238** | **.54956** | **.99614** |
| Stddev | .00045 | .00002 | .00077 | .0023 | .524 | .0082 | .059 | .00048 | .00054 |
| %RSD | .09085 | .01127 | .30951 | .06072 | .93647 | .75425 | .06568 | .08718 | .05394 |
| #1 | .49703 | .19995 | .24972 | 3.8279 | 55.602 | 1.0771 | 90.197 | .54922 | .99652 |
| #2 | .49639 | .19992 | .25081 | 3.8312 | 56.343 | 1.0887 | 90.280 | .54990 | .99576 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.527** | **.48940** | **10.714** | **.49492** | **28.106** | **.51629** | **2.0721** | **16.804** | **1.9480** |
| Stddev | .047 | .00020 | .008 | .00190 | .005 | .00102 | .0037 | .009 | .0038 |
| %RSD | .06917 | .04119 | .07056 | .38324 | .01749 | .19698 | .18062 | .05541 | .19540 |
| #1 | 68.560 | .48955 | 10.719 | .49357 | 28.109 | .51701 | 2.0694 | 16.797 | 1.9507 |
| #2 | 68.493 | .48926 | 10.708 | .49626 | 28.102 | .51557 | 2.0747 | 16.810 | 1.9453 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8142** | **1.0167** | **.99737** | **1.9216** | **2.0264** | **.49895** | **.49058** | **.47047** |
| Stddev | .0344 | .0001 | .00064 | .0008 | .0163 | .00014 | .00137 | .00206 |
| %RSD | .90221 | .01265 | .06398 | .03980 | .80367 | .02795 | .27978 | .43890 |
| #1 | 3.7899 | 1.0166 | .99782 | 1.9210 | 2.0379 | .49905 | .49155 | .46901 |
| #2 | 3.8385 | 1.0168 | .99692 | 1.9221 | 2.0149 | .49885 | .48961 | .47193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5577.1** | **71018.** | **4222.6** |
| Stddev | 13.2 | 102. | 23.9 |
| %RSD | .23632 | .14396 | .56576 |
| #1 | 5567.7 | 70946. | 4239.5 |
| #2 | 5586.4 | 71090. | 4205.7 |

Sample Name: 280-42191-A-51-A  Acquired: 5/17/2013 2:07:52  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **.01404** | **.00646** | **4.8480** | **.04850** | **-.00009** | **-.00236** | **96.009** | **.00036** |
| Stddev | .00061 | .00012 | .00211 | .0018 | .00021 | .00000 | .00038 | .506 | .00006 |
| %RSD | 49.894 | .88315 | 32.579 | .03685 | .43013 | 3.2965 | 15.886 | .52664 | 16.704 |
| #1 | .00164 | .01412 | .00795 | 4.8492 | .04864 | -.00009 | -.00263 | 95.651 | .00032 |
| #2 | .00079 | .01395 | .00497 | 4.8467 | .04835 | -.00009 | -.00210 | 96.366 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02062** | **.00060** | **.01099** | **.10709** | **6.8941** | **.03904** | **37.009** | **.06325** | **.02013** |
| Stddev | .00008 | .00009 | .00075 | .00023 | .0630 | .00222 | .029 | .00006 | .00016 |
| %RSD | .38563 | 15.275 | 6.8000 | .21601 | .91326 | 5.6946 | .07905 | .09393 | .81911 |
| #1 | .02056 | .00054 | .01152 | .10692 | 6.9386 | .03746 | 37.030 | .06330 | .02025 |
| #2 | .02068 | .00067 | .01046 | .10725 | 6.8496 | .04061 | 36.988 | .06321 | .02001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **57.078** | **.00405** | **.19108** | **.00211** | **54.729** | **-.00043** | **-.00091** | **5.7507** | **.00057** |
| Stddev | .024 | .00024 | .00063 | .00028 | .009 | .00015 | .00190 | .0126 | .00176 |
| %RSD | .04157 | 5.9330 | .32870 | 13.081 | .01729 | 34.396 | 209.11 | .21857 | 308.25 |
| #1 | 57.061 | .00388 | .19153 | .00192 | 54.722 | -.00053 | .00044 | 5.7595 | .00182 |
| #2 | 57.095 | .00422 | .19064 | .00231 | 54.736 | -.00032 | -.00226 | 5.7418 | -.00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29878** | **-.00047** | **.00045** | **.00016** | **-.04221** | **-.00063** | **.53706** | **.00349** |
| Stddev | .00147 | .00086 | .00010 | .00033 | .04170 | .00029 | .00393 | .00078 |
| %RSD | .49105 | 183.74 | 23.007 | 207.25 | 98.782 | 45.590 | .73238 | 22.352 |
| #1 | .29774 | -.00108 | .00038 | -.00007 | -.01273 | -.00043 | .53428 | .00294 |
| #2 | .29981 | .00014 | .00052 | .00039 | -.07169 | -.00083 | .53984 | .00404 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5695.1** | **72915.** | **4256.2** |
| Stddev | 2.5 | 39. | 8.8 |
| %RSD | .04405 | .05352 | .20635 |
| #1 | 5693.3 | 72942. | 4262.4 |
| #2 | 5696.9 | 72887. | 4250.0 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 2:10:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **48.362** | **.00156** | **.02052** | **-.00060** | **-.00003** | **1.0191** | **.00578** | **-.00080** | **.00218** | **.00011** | **-.00089** |
| Stddev | .00058 | .328 | .00070 | .00110 | .00036 | .00004 | .0063 | .00118 | .00008 | .00001 | .00024 | .00050 |
| %RSD | 51.015 | .67736 | 45.072 | 5.3768 | 59.588 | 135.84 | .61940 | 20.344 | 10.194 | .51030 | 214.86 | 56.050 |
| #1 | .00072 | 48.593 | .00106 | .02130 | -.00035 | -.00000 | 1.0235 | .00661 | -.00075 | .00217 | .00028 | -.00054 |
| #2 | .00154 | 48.130 | .00205 | .01974 | -.00086 | -.00006 | 1.0146 | .00495 | -.00086 | .00219 | -.00006 | -.00125 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.752** | **.08520** | **-.00216** | **.01070** | **-.00012** | **-.00230** | F **277.20** | **.00155** | **.00817** | **.00085** | **5.2248** | **-.00268** |
| Stddev | .040 | .03186 | .00016 | .00141 | .00005 | .00049 | 1.75 | .00028 | .00322 | .00035 | .0160 | .00067 |
| %RSD | .08649 | 37.388 | 7.2634 | 13.184 | 46.668 | 21.285 | .63161 | 18.031 | 39.440 | 41.660 | .30606 | 25.064 |
| #1 | 45.780 | .06268 | -.00205 | .00970 | -.00008 | -.00265 | 278.44 | .00174 | .00589 | .00060 | 5.2361 | -.00221 |
| #2 | 45.724 | .10773 | -.00227 | .01170 | -.00016 | -.00195 | 275.96 | .00135 | .01044 | .00110 | 5.2135 | -.00316 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00518** | **.00269** | **.00112** | **.00042** | **5.1278** | **.00298** | **-.00286** | **10.171** | **-.00141** | **.00275** | **-.04693** |
| Stddev | .00049 | .01709 | .00115 | .00003 | .0019 | .00000 | .00037 | .002 | .00012 | .00031 | .00069 |
| %RSD | 9.4593 | 634.26 | 102.96 | 7.5578 | .03703 | .13701 | 12.768 | .02366 | 8.7901 | 11.364 | 1.4691 |
| #1 | .00483 | -.00939 | .00030 | .00044 | 5.1292 | .00298 | -.00260 | 10.169 | -.00150 | .00297 | -.04742 |
| #2 | .00552 | .01478 | .00193 | .00039 | 5.1265 | .00298 | -.00312 | 10.173 | -.00132 | .00253 | -.04645 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5698.3** | **72252.** | **4230.8** |
| Stddev | 9.4 | 343. | 30.0 |
| %RSD | .16464 | .47476 | .70814 |
| #1 | 5704.9 | 72494. | 4209.7 |
| #2 | 5691.7 | 72009. | 4252.0 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 2:12:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51399** | **.50062** | **1.0207** | **.53721** | **.52327** | **.47783** | **-.00088** | **4.8719** | **.50882** | **.51909** | **.50684** | **.50241** | **2.2543** |
| Stddev | .00128 | .00135 | .0002 | .00108 | .00253 | .00188 | .00061 | .0021 | .00058 | .00053 | .00041 | .00043 | .0037 |
| %RSD | .24851 | .27022 | .01645 | .20073 | .48259 | .39429 | 69.563 | .04354 | .11431 | .10247 | .08166 | .08641 | .16612 |
| #1 | .51490 | .50158 | 1.0206 | .53797 | .52148 | .47650 | -.00045 | 4.8704 | .50924 | .51871 | .50713 | .50211 | 2.2516 |
| #2 | .51309 | .49966 | 1.0209 | .53645 | .52505 | .47916 | -.00132 | 4.8734 | .50841 | .51946 | .50655 | .50272 | 2.2569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.590** | **1.0954** | **19.963** | **.51091** | **.50079** | **5.2730** | **.51415** | **1.0385** | **1.0301** | **-.02286** | **1.0254** | **1.0482** | **4.6287** |
| Stddev | .453 | .0055 | .029 | .00001 | .00179 | .0017 | .00106 | .0042 | .0039 | .00219 | .0024 | .0021 | .0018 |
| %RSD | .83059 | .50176 | .14284 | .00116 | .35750 | .03271 | .20679 | .40347 | .37505 | 9.5825 | .23551 | .20038 | .03832 |
| #1 | 54.269 | 1.0915 | 19.943 | .51091 | .50205 | 5.2742 | .51491 | 1.0355 | 1.0274 | -.02441 | 1.0237 | 1.0467 | 4.6275 |
| #2 | 54.910 | 1.0992 | 19.983 | .51092 | .49952 | 5.2718 | .51340 | 1.0414 | 1.0329 | -.02131 | 1.0272 | 1.0497 | 4.6300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99870** | **.52628** | **.00378** | **.50783** | **.99468** | **-.03247** | **.50171** | **.50113** | **.48935** |
| Stddev | .00159 | .00310 | .00005 | .00052 | .00002 | .01706 | .00112 | .00275 | .00190 |
| %RSD | .15921 | .58834 | 1.3732 | .10320 | .00226 | 52.556 | .22372 | .54784 | .38844 |
| #1 | .99758 | .52409 | .00382 | .50820 | .99470 | -.02040 | .50091 | .49919 | .48801 |
| #2 | .99983 | .52847 | .00374 | .50746 | .99467 | -.04453 | .50250 | .50307 | .49069 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5771.3** | **72713.** | **4229.4** |
| Stddev | 3.2 | 9. | 28.1 |
| %RSD | .05617 | .01284 | .66473 |
| #1 | 5769.0 | 72706. | 4249.2 |
| #2 | 5773.6 | 72720. | 4209.5 |

Sample Name: CCB Acquired: 5/17/2013 2:14:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00135** | **-.00035** | **.00353** | F **.01247** | W **-.00085** | **-.00008** | **.00261** | **-.00528** | **-.00010** | **.00043** | **.00037** |
| Stddev | .00139 | .00024 | .00077 | .00027 | .00002 | .00011 | .00062 | .00294 | .00016 | .00046 | .00006 |
| %RSD | 103.15 | 68.065 | 21.908 | 2.1829 | 1.8638 | 140.14 | 23.688 | 55.646 | 158.77 | 106.37 | 14.887 |
| #1 | .00037 | -.00052 | .00298 | .01266 | -.00084 | -.00000 | .00218 | -.00736 | .00001 | .00075 | .00041 |
| #2 | .00234 | -.00018 | .00407 | .01227 | -.00086 | -.00016 | .00305 | -.00320 | -.00021 | .00011 | .00034 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **-.00497** | **.08202** | W **-.00424** | **.00120** | **-.00009** | **-.00022** | **-.02607** | **.00011** | **-.00129** | **-.00099** |
| Stddev | .00048 | .00184 | .04002 | .00156 | .00115 | .00002 | .00030 | .00058 | .00023 | .00112 | .00005 |
| %RSD | 76.408 | 37.078 | 48.790 | 36.875 | 95.862 | 21.710 | 133.96 | 2.2250 | 208.76 | 87.194 | 5.1339 |
| #1 | -.00097 | -.00367 | .05372 | -.00534 | .00201 | -.00008 | -.00001 | -.02648 | .00027 | -.00208 | -.00102 |
| #2 | -.00029 | -.00627 | .11031 | -.00313 | .00039 | -.00010 | -.00043 | -.02566 | -.00005 | -.00049 | -.00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01721** | **-.00060** | **.00015** | **.00636** | **.00017** | **-.00001** | **.00029** | **-.00011** | **-.00026** | **.00277** | **-.00101** |
| Stddev | .00236 | .00191 | .00120 | .01908 | .00077 | .00002 | .00076 | .00002 | .00084 | .02441 | .00052 |
| %RSD | 13.725 | 317.69 | 783.88 | 300.07 | 447.33 | 144.54 | 261.88 | 20.443 | 328.00 | 879.91 | 52.040 |
| #1 | -.01554 | -.00195 | .00100 | .01985 | .00071 | .00000 | -.00025 | -.00012 | -.00085 | .02003 | -.00138 |
| #2 | -.01888 | .00075 | -.00069 | -.00713 | -.00037 | -.00002 | .00083 | -.00009 | .00034 | -.01449 | -.00064 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00245** | W **.00265** |
| Stddev | .00025 | .00253 |
| %RSD | 10.081 | 95.352 |
| #1 | .00227 | .00086 |
| #2 | .00262 | .00444 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5836.3** | **74182.** | **4217.5** |
| Stddev | 3.0 | 259. | 8.8 |
| %RSD | .05070 | .34850 | .20937 |
| #1 | 5834.2 | 74365. | 4211.2 |
| #2 | 5838.4 | 73999. | 4223.7 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 2:17:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01104** | **.10387** | **.01700** | **.11506** | F **.01488** | **.00087** | **.10468** | **.19495** | **.00514** | **.01076** | **.01030** |
| Stddev | .00049 | .00036 | .00151 | .00071 | .00025 | .00012 | .00436 | .00249 | .00012 | .00010 | .00008 |
| %RSD | 4.4579 | .34722 | 8.8768 | .61620 | 1.6631 | 13.807 | 4.1611 | 1.2794 | 2.3478 | .93706 | .76741 |
| #1 | .01139 | .10362 | .01594 | .11556 | .01505 | .00095 | .10160 | .19672 | .00506 | .01069 | .01024 |
| #2 | .01070 | .10413 | .01807 | .11455 | .01470 | .00078 | .10776 | .19319 | .00523 | .01083 | .01035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | | | | | | |
| Range | | | | | 30.000% | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01370** | F **.17812** | **3.3503** | W **.00747** | **.20567** | **.01083** | **.01958** | **1.0480** | **.04165** | **3.0143** | W **.01104** |
| Stddev | .00057 | .01556 | .0076 | .00163 | .00255 | .00004 | .00048 | .0014 | .00007 | .0070 | .00098 |
| %RSD | 4.1852 | 8.7368 | .22524 | 21.890 | 1.2384 | .33049 | 2.4554 | .13695 | .16150 | .23212 | 8.8383 |
| #1 | .01411 | .18912 | 3.3449 | .00862 | .20387 | .01085 | .01924 | 1.0470 | .04160 | 3.0192 | .01173 |
| #2 | .01330 | .16711 | 3.3556 | .00631 | .20747 | .01080 | .01992 | 1.0490 | .04170 | 3.0093 | .01035 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | .10000 | | .01000 | | | | | | | .00900 |
| Range | | 30.000% | | -20.000% | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02022** | W **.00791** | W **.01801** | **.46323** | **.09914** | **.01085** | **.01580** | **.01024** | **.01363** | F **.07897** | **.00899** |
| Stddev | .00213 | .00033 | .00144 | .00957 | .00036 | .00009 | .00203 | .00007 | .00015 | .02456 | .00041 |
| %RSD | 10.533 | 4.2086 | 7.9919 | 2.0662 | .35910 | .80184 | 12.849 | .67847 | 1.1347 | 31.094 | 4.5088 |
| #1 | -.02173 | .00815 | .01699 | .45646 | .09889 | .01079 | .01723 | .01020 | .01352 | .06161 | .00928 |
| #2 | -.01871 | .00768 | .01902 | .47000 | .09939 | .01091 | .01436 | .01029 | .01374 | .09634 | .00871 |
| Check ? | None | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | .01500 | | | | | | | .06000 | |
| Range | | -20.000% | 20.000% | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02596** | W **.01891** |
| Stddev | .00007 | .00176 |
| %RSD | .26819 | 9.3043 |
| #1 | .02591 | .02015 |
| #2 | .02601 | .01766 |
| Check ? | Chk Warn | Chk Warn |
| Value | .02000 | .01500 |
| Range | 20.000% | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5837.9** | **74505.** | **4240.5** |
| Stddev | .4 | 290. | 1.0 |
| %RSD | .00627 | .38936 | .02345 |
| #1 | 5837.7 | 74300. | 4239.8 |
| #2 | 5838.2 | 74710. | 4241.2 |

Sample Name: 280-42191-A-52-A  Acquired: 5/17/2013 2:19:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00938** | **.00461** | **.01041** | **1.2884** | **.03521** | **.00006** | W **-.01019** | **69.385** | **.10151** |
| Stddev | .00006 | .00030 | .00291 | .0004 | .00030 | .00003 | .00209 | .835 | .00004 |
| %RSD | .60956 | 6.4140 | 27.966 | .02960 | .84591 | 47.209 | 20.513 | 1.2032 | .03596 |
| #1 | .00934 | .00440 | .00835 | 1.2886 | .03542 | .00004 | -.00871 | 69.975 | .10154 |
| #2 | .00942 | .00482 | .01247 | 1.2881 | .03500 | .00008 | -.01166 | 68.795 | .10148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01571** | **-.00478** | **.20344** | **.01246** | **99.417** | **.38196** | **7.9606** | **.02262** | **.29025** |
| Stddev | .00017 | .00036 | .00059 | .00253 | 1.172 | .00268 | .0126 | .00000 | .00089 |
| %RSD | 1.0705 | 7.5821 | .29235 | 20.320 | 1.1787 | .70212 | .15792 | .00296 | .30494 |
| #1 | .01559 | -.00452 | .20386 | .01425 | 100.25 | .38385 | 7.9695 | .02262 | .29088 |
| #2 | .01582 | -.00503 | .20302 | .01067 | 98.588 | .38006 | 7.9517 | .02262 | .28963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **408.64** | **.84218** | **.30615** | **.00438** | **1142.5** | **.23930** | **.19886** | **.81848** | **.00018** |
| Stddev | 4.28 | .00003 | .00068 | .00155 | .4 | .00264 | .00132 | .00775 | .00179 |
| %RSD | 1.0485 | .00370 | .22096 | 35.430 | .03165 | 1.1044 | .66348 | .94627 | 985.92 |
| #1 | 411.67 | .84220 | .30663 | .00328 | 1142.7 | .24117 | .19979 | .82396 | -.00108 |
| #2 | 405.61 | .84216 | .30567 | .00548 | 1142.2 | .23743 | .19793 | .81301 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.77941** | **.00081** | **-.00224** | **.02436** | **-.03624** | **-.00123** | F **396.21** | **.00187** |
| Stddev | .00915 | .00132 | .00001 | .00007 | .05013 | .00090 | 1.05 | .00148 |
| %RSD | 1.1746 | 162.35 | .45461 | .27277 | 138.34 | 73.249 | .26529 | 78.911 |
| #1 | .78588 | -.00012 | -.00225 | .02441 | -.00079 | -.00059 | 395.47 | .00083 |
| #2 | .77294 | .00175 | -.00223 | .02431 | -.07169 | -.00187 | 396.95 | .00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5408.0** | **69773.** | **4103.8** |
| Stddev | 9.9 | 121. | 84.6 |
| %RSD | .18300 | .17402 | 2.0608 |
| #1 | 5401.0 | 69687. | 4044.0 |
| #2 | 5415.0 | 69859. | 4163.7 |

Sample Name: 280-42191-A-53-A  Acquired: 5/17/2013 2:22:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00842** | **.04173** | **.01011** | **1.4271** | **.02350** | **.00005** | **-.00652** | **54.632** | **.14186** |
| Stddev | .00017 | .00052 | .00011 | .0034 | .00014 | .00007 | .00203 | .242 | .00046 |
| %RSD | 2.0743 | 1.2352 | 1.0701 | .23570 | .57471 | 159.19 | 31.112 | .44318 | .32680 |
| #1 | .00830 | .04137 | .01004 | 1.4247 | .02341 | .00010 | -.00508 | 54.804 | .14153 |
| #2 | .00854 | .04209 | .01019 | 1.4295 | .02360 | -.00001 | -.00795 | 54.461 | .14219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01304** | **-.00409** | **.13744** | **.08133** | **83.638** | **.46764** | **6.0806** | **.02329** | **.21102** |
| Stddev | .00004 | .00021 | .00017 | .00173 | .531 | .00311 | .0214 | .00007 | .00007 |
| %RSD | .27110 | 5.0174 | .12634 | 2.1275 | .63524 | .66406 | .35117 | .30787 | .03236 |
| #1 | .01306 | -.00395 | .13732 | .08256 | 84.014 | .46544 | 6.0655 | .02324 | .21098 |
| #2 | .01301 | -.00424 | .13756 | .08011 | 83.263 | .46984 | 6.0957 | .02334 | .21107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **160.34** | **.68265** | **.21309** | **.00272** | **977.80** | **.20101** | **.15852** | **.47926** | **.00025** |
| Stddev | .52 | .00199 | .00365 | .00033 | 2.46 | .00442 | .00270 | .00910 | .00089 |
| %RSD | .32290 | .29189 | 1.7145 | 12.085 | .25123 | 2.1965 | 1.7002 | 1.8986 | 351.81 |
| #1 | 160.71 | .68124 | .21050 | .00295 | 976.06 | .20413 | .16043 | .47283 | .00088 |
| #2 | 159.97 | .68406 | .21567 | .00249 | 979.54 | .19788 | .15662 | .48570 | -.00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64436** | **.00265** | **-.00093** | **.02715** | W **-.05656** | **-.00061** | F **378.25** | **.00260** |
| Stddev | .00271 | .00021 | .00006 | .00281 | .00957 | .00062 | 3.74 | .00005 |
| %RSD | .42006 | 8.0377 | 6.9467 | 10.352 | 16.915 | 101.31 | .98854 | 1.7847 |
| #1 | .64628 | .00250 | -.00098 | .02516 | -.06332 | -.00104 | 375.60 | .00257 |
| #2 | .64245 | .00280 | -.00089 | .02913 | -.04979 | -.00017 | 380.89 | .00263 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | 45.000 | | 50.000 | |
| Low Limit | | | | | -.05000 | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5534.3** | **72022.** | **4232.6** |
| Stddev | 2.5 | 496. | 72.0 |
| %RSD | .04456 | .68811 | 1.7004 |
| #1 | 5536.1 | 72372. | 4181.7 |
| #2 | 5532.6 | 71672. | 4283.5 |

Sample Name: 280-42191-A-54-A  Acquired: 5/17/2013 2:24:57  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **.00248** | **.00600** | **.86726** | **.03626** | **-.00008** | **-.00065** | **73.038** | **.00027** |
| Stddev | .00085 | .00009 | .00055 | .00031 | .00019 | .00010 | .00105 | .476 | .00006 |
| %RSD | 96.866 | 3.5921 | 9.1175 | .03607 | .51092 | 122.94 | 161.95 | .65121 | 23.942 |
| #1 | .00028 | .00254 | .00639 | .86748 | .03639 | -.00015 | .00009 | 72.701 | .00022 |
| #2 | .00148 | .00242 | .00562 | .86703 | .03613 | -.00001 | -.00140 | 73.374 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00294** | **.00565** | **.76217** | **.05261** | **60.994** | **.03462** | **23.627** | **.01646** | **.38042** |
| Stddev | .00024 | .00006 | .00042 | .00096 | .188 | .00140 | .024 | .00001 | .00053 |
| %RSD | 8.1887 | 1.0049 | .05504 | 1.8215 | .30895 | 4.0335 | .10359 | .04819 | .13972 |
| #1 | .00277 | .00569 | .76246 | .05194 | 60.861 | .03560 | 23.610 | .01645 | .38079 |
| #2 | .00311 | .00561 | .76187 | .05329 | 61.127 | .03363 | 23.645 | .01646 | .38004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **86.775** | **.01326** | **.13966** | **.01231** | **302.45** | **-.00107** | **-.00028** | **1.7872** | **.02195** |
| Stddev | .276 | .00021 | .00057 | .00065 | .13 | .00041 | .00379 | .0175 | .00031 |
| %RSD | .31810 | 1.5854 | .40582 | 5.2605 | .04320 | 38.841 | 1350.6 | .97992 | 1.3985 |
| #1 | 86.970 | .01340 | .13926 | .01277 | 302.36 | -.00077 | -.00296 | 1.7996 | .02173 |
| #2 | 86.580 | .01311 | .14006 | .01186 | 302.54 | -.00136 | .00240 | 1.7749 | .02217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57782** | **.00085** | **-.00002** | **-.00053** | **-.02297** | **-.00068** | **.24301** | **.00316** |
| Stddev | .00400 | .00180 | .00027 | .00077 | .02512 | .00056 | .01100 | .00198 |
| %RSD | .69263 | 212.35 | 1194.0 | 144.07 | 109.39 | 82.282 | 4.5280 | 62.684 |
| #1 | .57499 | -.00043 | .00017 | .00001 | -.00520 | -.00108 | .25079 | .00456 |
| #2 | .58065 | .00213 | -.00021 | -.00107 | -.04073 | -.00028 | .23523 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5616.7** | **71545.** | **4246.6** |
| Stddev | .3 | 105. | 7.7 |
| %RSD | .00470 | .14624 | .18031 |
| #1 | 5616.9 | 71619. | 4252.1 |
| #2 | 5616.5 | 71471. | 4241.2 |

Sample Name: 280-42191-A-55-A  Acquired: 5/17/2013 2:27:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00126** | **.00519** | **-.00027** | **1.1132** | **.12922** | **-.00015** | **-.00400** | **181.69** | **.00031** |
| Stddev | .00049 | .00012 | .00075 | .0018 | .00020 | .00012 | .00001 | .11 | .00011 |
| %RSD | 38.995 | 2.2369 | 278.85 | .16062 | .15601 | 77.630 | .26959 | .06151 | 35.266 |
| #1 | .00160 | .00510 | -.00080 | 1.1120 | .12908 | -.00007 | -.00401 | 181.77 | .00023 |
| #2 | .00091 | .00527 | .00026 | 1.1145 | .12937 | -.00024 | -.00399 | 181.61 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00106** | **.00025** | **.02130** | **.04418** | **11.221** | **.07876** | **57.702** | **.22970** | **.01683** |
| Stddev | .00008 | .00016 | .00038 | .00484 | .074 | .00134 | .002 | .00019 | .00000 |
| %RSD | 7.3451 | 66.488 | 1.7664 | 10.963 | .66142 | 1.7024 | .00314 | .08127 | .01571 |
| #1 | .00100 | .00036 | .02157 | .04076 | 11.168 | .07781 | 57.704 | .22957 | .01683 |
| #2 | .00111 | .00013 | .02103 | .04761 | 11.273 | .07971 | 57.701 | .22983 | .01683 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.768** | **.00559** | **.13845** | **.00406** | **101.09** | **.00005** | **-.00194** | **4.5194** | **.00062** |
| Stddev | .426 | .00018 | .00184 | .00102 | .22 | .00034 | .00201 | .0185 | .00012 |
| %RSD | 1.5929 | 3.2831 | 1.3321 | 25.209 | .22162 | 624.30 | 103.71 | .40968 | 18.835 |
| #1 | 26.467 | .00546 | .13715 | .00478 | 100.94 | .00030 | -.00052 | 4.5325 | .00054 |
| #2 | 27.070 | .00572 | .13976 | .00334 | 101.25 | -.00019 | -.00336 | 4.5063 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.81604** | **-.00024** | **.00068** | **-.00053** | W **-.05688** | **-.00063** | **9.0664** | **.00421** |
| Stddev | .00089 | .00077 | .00028 | .00097 | .00880 | .00020 | .0059 | .00020 |
| %RSD | .10849 | 325.00 | 41.571 | 184.30 | 15.477 | 31.398 | .06491 | 4.7388 |
| #1 | .81541 | -.00078 | .00048 | .00016 | -.05065 | -.00077 | 9.0705 | .00406 |
| #2 | .81667 | .00031 | .00088 | -.00122 | -.06310 | -.00049 | 9.0622 | .00435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5553.3** | **72145.** | **4176.3** |
| Stddev | 1.7 | 103. | 12.6 |
| %RSD | .03105 | .14331 | .30271 |
| #1 | 5554.5 | 72072. | 4185.3 |
| #2 | 5552.0 | 72218. | 4167.4 |

Sample Name: 280-42191-A-56-A  Acquired: 5/17/2013 2:29:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **.02161** | **.11136** | **2.0856** | **.05584** | **-.00004** | **-.00123** | **168.87** | **.00011** |
| Stddev | .00055 | .00043 | .00142 | .0031 | .00034 | .00006 | .00324 | .08 | .00011 |
| %RSD | 50.389 | 1.9775 | 1.2742 | .14954 | .61282 | 128.72 | 262.34 | .04677 | 97.676 |
| #1 | .00071 | .02131 | .11237 | 2.0834 | .05559 | -.00000 | .00106 | 168.81 | .00003 |
| #2 | .00149 | .02192 | .11036 | 2.0878 | .05608 | -.00009 | -.00352 | 168.93 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01110** | **.00049** | **.01298** | **.89048** | **42.651** | **.03863** | **53.231** | **.01328** | **.28480** |
| Stddev | .00010 | .00015 | .00035 | .00102 | .180 | .00032 | .049 | .00001 | .00033 |
| %RSD | .87257 | 31.355 | 2.6736 | .11492 | .42124 | .83271 | .09220 | .10232 | .11564 |
| #1 | .01103 | .00060 | .01323 | .88976 | 42.778 | .03840 | 53.196 | .01329 | .28503 |
| #2 | .01117 | .00038 | .01274 | .89120 | 42.524 | .03886 | 53.265 | .01327 | .28457 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **94.494** | **.00215** | **.14255** | **.00229** | **169.62** | **.00079** | **.00339** | **3.7257** | **.00009** |
| Stddev | .110 | .00010 | .00001 | .00024 | .06 | .00020 | .00159 | .0231 | .00079 |
| %RSD | .11616 | 4.4446 | .00908 | 10.677 | .03483 | 25.116 | 46.854 | .62005 | 894.94 |
| #1 | 94.572 | .00208 | .14256 | .00212 | 169.58 | .00065 | .00451 | 3.7420 | .00065 |
| #2 | 94.417 | .00222 | .14254 | .00247 | 169.67 | .00093 | .00226 | 3.7094 | -.00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58838** | **.00073** | **.00122** | **-.00037** | **-.02714** | **-.00118** | **9.2119** | **.00167** |
| Stddev | .00042 | .00040 | .00039 | .00069 | .00656 | .00009 | .0041 | .00010 |
| %RSD | .07160 | 55.252 | 31.603 | 187.77 | 24.162 | 7.5609 | .04427 | 6.0067 |
| #1 | .58867 | .00044 | .00149 | .00012 | -.02251 | -.00124 | 9.2090 | .00160 |
| #2 | .58808 | .00101 | .00095 | -.00086 | -.03178 | -.00112 | 9.2148 | .00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5571.0** | **71849.** | **4209.1** |
| Stddev | 8.1 | 81. | 1.8 |
| %RSD | .14488 | .11306 | .04380 |
| #1 | 5576.7 | 71792. | 4207.8 |
| #2 | 5565.3 | 71907. | 4210.4 |

Sample Name: 280-42191-A-57-A  Acquired: 5/17/2013 2:32:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00297** | **.00213** | **.00193** | **2.5498** | **.06581** | **-.00022** | **.00625** | **465.15** | **.00038** |
| Stddev | .00040 | .00003 | .00089 | .0055 | .00057 | .00001 | .00217 | 2.78 | .00011 |
| %RSD | 13.339 | 1.2453 | 46.016 | .21475 | .85971 | 4.0959 | 34.672 | .59775 | 28.394 |
| #1 | .00325 | .00215 | .00130 | 2.5537 | .06541 | -.00022 | .00778 | 467.11 | .00045 |
| #2 | .00269 | .00211 | .00256 | 2.5460 | .06621 | -.00021 | .00472 | 463.18 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00211** | **-.00160** | **.10581** | **.01981** | W **111.98** | **.18496** | **184.55** | **.09716** | **.44162** |
| Stddev | .00007 | .00013 | .00075 | .00010 | .62 | .00051 | .19 | .00021 | .00175 |
| %RSD | 3.2880 | 8.3418 | .70445 | .51526 | .55339 | .27645 | .10446 | .21493 | .39663 |
| #1 | .00206 | -.00151 | .10529 | .01974 | 112.42 | .18460 | 184.41 | .09731 | .44038 |
| #2 | .00216 | -.00170 | .10634 | .01988 | 111.54 | .18532 | 184.69 | .09701 | .44286 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **153.31** | **.10808** | **.11595** | **.00977** | **484.62** | **.04557** | **.00207** | **.30844** | **.00558** |
| Stddev | 1.04 | .00054 | .00039 | .00028 | 1.07 | .00084 | .00550 | .00328 | .00092 |
| %RSD | .67931 | .50194 | .33339 | 2.8521 | .22066 | 1.8323 | 265.65 | 1.0636 | 16.559 |
| #1 | 154.04 | .10769 | .11567 | .00957 | 485.38 | .04498 | -.00182 | .31076 | .00492 |
| #2 | 152.57 | .10846 | .11622 | .00997 | 483.87 | .04616 | .00596 | .30612 | .00623 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6673** | **.00201** | **.00121** | **-.00066** | **-.04110** | **-.00043** | F **322.84** | **.00282** |
| Stddev | .0112 | .00304 | .00027 | .00120 | .00843 | .00012 | 1.59 | .00090 |
| %RSD | .66947 | 151.49 | 22.217 | 181.67 | 20.498 | 27.276 | .49381 | 31.902 |
| #1 | 1.6752 | .00415 | .00139 | .00019 | -.04706 | -.00035 | 323.97 | .00346 |
| #2 | 1.6594 | -.00014 | .00102 | -.00150 | -.03515 | -.00051 | 321.71 | .00218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5299.6** | **69583.** | **4172.5** |
| Stddev | 3.8 | 56. | 13.8 |
| %RSD | .07129 | .08103 | .33128 |
| #1 | 5296.9 | 69543. | 4162.7 |
| #2 | 5302.3 | 69623. | 4182.3 |

Sample Name: 280-42191-A-58-A  Acquired: 5/17/2013 2:34:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00709** | **.01155** | **.02774** | **1.0568** | **.02732** | **-.00001** | **.00148** | **39.330** | **.01836** |
| Stddev | .00042 | .00006 | .00525 | .0028 | .00020 | .00000 | .00214 | .334 | .00003 |
| %RSD | 5.8976 | .50121 | 18.914 | .26346 | .73456 | .23039 | 144.61 | .84995 | .16396 |
| #1 | .00739 | .01151 | .02403 | 1.0588 | .02718 | -.00001 | .00300 | 39.093 | .01834 |
| #2 | .00680 | .01159 | .03145 | 1.0549 | .02746 | -.00001 | -.00003 | 39.566 | .01838 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01388** | **-.00349** | **.87201** | **.00762** | W **178.13** | **.08235** | **14.015** | **.03483** | **.58245** |
| Stddev | .00031 | .00002 | .00415 | .00187 | 1.34 | .00015 | .001 | .00001 | .00021 |
| %RSD | 2.2610 | .68613 | .47632 | 24.569 | .75339 | .17762 | .00807 | .01745 | .03553 |
| #1 | .01410 | -.00351 | .86907 | .00895 | 177.18 | .08245 | 14.014 | .03484 | .58231 |
| #2 | .01366 | -.00348 | .87494 | .00630 | 179.08 | .08225 | 14.016 | .03483 | .58260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **192.72** | **.24210** | **.17250** | **.00725** | **1335.2** | **.14511** | **.05377** | **1.0365** | **.00474** |
| Stddev | 1.11 | .00036 | .00181 | .00181 | 3.1 | .00363 | .00285 | .0203 | .00099 |
| %RSD | .57627 | .14786 | 1.0500 | 24.927 | .23226 | 2.4987 | 5.2918 | 1.9574 | 20.814 |
| #1 | 191.93 | .24235 | .17122 | .00597 | 1337.3 | .14254 | .05578 | 1.0221 | .00544 |
| #2 | 193.50 | .24185 | .17378 | .00853 | 1333.0 | .14767 | .05176 | 1.0508 | .00405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52728** | **.00141** | **-.00165** | **-.00086** | W **-.05388** | **.00194** | F **366.74** | **.00243** |
| Stddev | .00394 | .00085 | .00014 | .00065 | .00690 | .00026 | 2.23 | .00037 |
| %RSD | .74715 | 60.386 | 8.6192 | 75.631 | 12.805 | 13.200 | .60869 | 15.095 |
| #1 | .52449 | .00201 | -.00175 | -.00131 | -.05875 | .00176 | 368.32 | .00269 |
| #2 | .53006 | .00081 | -.00155 | -.00040 | -.04900 | .00212 | 365.16 | .00217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | 45.000 | | 50.000 | |
| Low Limit | | | | | -.05000 | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5587.5** | **71947.** | **4289.9** |
| Stddev | 13.6 | 361. | 1.6 |
| %RSD | .24284 | .50164 | .03809 |
| #1 | 5597.1 | 71691. | 4288.8 |
| #2 | 5577.9 | 72202. | 4291.1 |

Sample Name: 280-42191-A-59-A  Acquired: 5/17/2013 2:37:16  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **.08001** | **.00322** | **7.4278** | **.03061** | **-.00013** | **-.00515** | **294.83** | **.00237** |
| Stddev | .00036 | .00029 | .00126 | .0101 | .00024 | .00002 | .00195 | 1.30 | .00005 |
| %RSD | 21.784 | .36464 | 39.114 | .13641 | .78390 | 18.276 | 37.873 | .44030 | 2.1552 |
| #1 | .00193 | .08022 | .00411 | 7.4206 | .03044 | -.00015 | -.00653 | 295.74 | .00233 |
| #2 | .00141 | .07981 | .00233 | 7.4349 | .03078 | -.00011 | -.00377 | 293.91 | .00240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01491** | **.00115** | **.01104** | **.07513** | **40.156** | **.20645** | **64.461** | **1.2635** | **.05572** |
| Stddev | .00001 | .00022 | .00010 | .00195 | .345 | .00140 | .098 | .0018 | .00031 |
| %RSD | .05471 | 19.014 | .91938 | 2.5907 | .85922 | .67741 | .15189 | .14596 | .55586 |
| #1 | .01491 | .00131 | .01096 | .07651 | 40.400 | .20744 | 64.530 | 1.2648 | .05550 |
| #2 | .01492 | .00100 | .01111 | .07376 | 39.912 | .20546 | 64.392 | 1.2622 | .05594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **84.037** | **.09952** | **.15237** | **.00326** | **278.63** | **.00184** | **.00135** | **5.6777** | **.00069** |
| Stddev | .620 | .00042 | .00391 | .00002 | .28 | .00155 | .00189 | .0017 | .00047 |
| %RSD | .73728 | .42115 | 2.5670 | .62842 | .09989 | 84.460 | 139.54 | .02929 | 69.055 |
| #1 | 84.476 | .09922 | .15513 | .00328 | 278.44 | .00074 | .00269 | 5.6765 | .00035 |
| #2 | 83.599 | .09982 | .14960 | .00325 | 278.83 | .00293 | .00002 | 5.6788 | .00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0845** | **.00096** | **.00414** | **.00049** | **-.02507** | **-.00068** | F **66.122** | **.00432** |
| Stddev | .0058 | .00049 | .00036 | .00130 | .03372 | .00061 | .177 | .00027 |
| %RSD | .53446 | 50.972 | 8.5977 | 264.85 | 134.52 | 88.779 | .26709 | 6.3541 |
| #1 | 1.0886 | .00131 | .00389 | -.00043 | -.04891 | -.00111 | 66.247 | .00451 |
| #2 | 1.0804 | .00061 | .00439 | .00141 | -.00122 | -.00025 | 65.997 | .00413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5583.8** | **72588.** | **4314.4** |
| Stddev | 6.8 | 147. | 27.5 |
| %RSD | .12197 | .20289 | .63749 |
| #1 | 5579.0 | 72484. | 4294.9 |
| #2 | 5588.7 | 72692. | 4333.8 |

Sample Name: 280-42191-A-60-A  Acquired: 5/17/2013 2:39:38  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **.00267** | **.00376** | **10.254** | **.02159** | **-.00013** | **.00197** | **44.887** | **.00056** |
| Stddev | .00106 | .00038 | .00082 | .003 | .00018 | .00009 | .00387 | .087 | .00016 |
| %RSD | 61.067 | 14.142 | 21.736 | .03074 | .81084 | 69.626 | 195.73 | .19326 | 29.470 |
| #1 | .00099 | .00293 | .00434 | 10.252 | .02172 | -.00007 | -.00076 | 44.948 | .00044 |
| #2 | .00249 | .00240 | .00318 | 10.256 | .02147 | -.00020 | .00471 | 44.826 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **-.00129** | **.04322** | **.00529** | **62.421** | **.20249** | **12.485** | **.01341** | **.23487** |
| Stddev | .00008 | .00005 | .00058 | .00468 | .263 | .00114 | .005 | .00003 | .00059 |
| %RSD | 10.822 | 4.1018 | 1.3487 | 88.482 | .42199 | .56251 | .04066 | .20305 | .25257 |
| #1 | .00070 | -.00125 | .04363 | .00859 | 62.607 | .20330 | 12.481 | .01343 | .23445 |
| #2 | .00082 | -.00132 | .04281 | .00198 | 62.235 | .20168 | 12.489 | .01339 | .23529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **140.46** | **.02646** | **.12160** | **.00298** | **389.62** | **.00864** | **.00364** | **.29647** | **.00407** |
| Stddev | .34 | .00005 | .00097 | .00009 | .13 | .00160 | .00442 | .01882 | .00079 |
| %RSD | .23869 | .20171 | .79405 | 2.8942 | .03218 | 18.477 | 121.28 | 6.3497 | 19.516 |
| #1 | 140.70 | .02643 | .12091 | .00305 | 389.71 | .00977 | .00676 | .28315 | .00463 |
| #2 | 140.22 | .02650 | .12228 | .00292 | 389.53 | .00751 | .00052 | .30978 | .00350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52156** | **.00228** | **-.00040** | **.00010** | **-.04389** | **-.00092** | F **227.73** | **.00469** |
| Stddev | .00186 | .00082 | .00002 | .00035 | .00930 | .00019 | .06 | .00020 |
| %RSD | .35716 | 36.120 | 4.5972 | 360.07 | 21.186 | 20.206 | .02582 | 4.2904 |
| #1 | .52287 | .00286 | -.00041 | .00035 | -.05046 | -.00079 | 227.78 | .00454 |
| #2 | .52024 | .00169 | -.00038 | -.00015 | -.03731 | -.00105 | 227.69 | .00483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5688.3** | **72629.** | **4324.2** |
| Stddev | 2.7 | 113. | 9.7 |
| %RSD | .04723 | .15514 | .22547 |
| #1 | 5690.2 | 72549. | 4317.3 |
| #2 | 5686.4 | 72708. | 4331.1 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 2:42:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00143** | **47.604** | **.00216** | **.02528** | **-.00076** | **-.00000** | **1.0021** | **.00202** | **-.00073** | **.00241** | **.00017** | **-.00094** | **45.157** |
| Stddev | .00011 | .082 | .00198 | .00263 | .00046 | .00003 | .0003 | .00213 | .00002 | .00025 | .00011 | .00032 | .044 |
| %RSD | 7.6795 | .17262 | 91.855 | 10.425 | 60.217 | 2755.5 | .02832 | 105.75 | 3.0192 | 10.296 | 65.712 | 33.695 | .09759 |
| #1 | .00136 | 47.662 | .00356 | .02714 | -.00044 | .00002 | 1.0019 | .00051 | -.00074 | .00258 | .00025 | -.00072 | 45.126 |
| #2 | .00151 | 47.546 | .00076 | .02341 | -.00109 | -.00002 | 1.0023 | .00352 | -.00071 | .00223 | .00009 | -.00116 | 45.188 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19522** | **-.00383** | **.01029** | **-.00005** | **-.00215** | **271.98** | **.00128** | **.00406** | **.00090** | **5.3155** | **-.00055** | **.00702** | **-.00035** |
| Stddev | .00256 | .00143 | .00186 | .00000 | .00002 | 1.47 | .00036 | .00135 | .00000 | .0302 | .00489 | .00317 | .00086 |
| %RSD | 1.3127 | 37.401 | 18.069 | 9.8476 | 1.1460 | .53940 | 28.331 | 33.190 | .14323 | .56880 | 895.71 | 45.215 | 242.68 |
| #1 | .19703 | -.00484 | .01161 | -.00005 | -.00213 | 273.01 | .00103 | .00501 | .00090 | 5.3369 | .00291 | .00477 | .00025 |
| #2 | .19341 | -.00282 | .00898 | -.00005 | -.00217 | 270.94 | .00154 | .00311 | .00090 | 5.2941 | -.00400 | .00926 | -.00096 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00039** | **5.0680** | **.00273** | **-.00222** | **10.071** | **-.00216** | **.01765** | **-.04630** |
| Stddev | .00089 | .00009 | .0016 | .00023 | .00041 | .058 | .00011 | .00166 | .00218 |
| %RSD | 143.96 | 23.366 | .03080 | 8.2810 | 18.272 | .57224 | 4.9360 | 9.3927 | 4.7008 |
| #1 | -.00001 | .00033 | 5.0691 | .00289 | -.00251 | 10.112 | -.00224 | .01883 | -.04784 |
| #2 | .00124 | .00046 | 5.0669 | .00257 | -.00194 | 10.031 | -.00209 | .01648 | -.04476 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5747.3** | **72848.** | **4252.4** |
| Stddev | 4.6 | 258. | 23.0 |
| %RSD | .07950 | .35402 | .54042 |
| #1 | 5744.0 | 72666. | 4236.1 |
| #2 | 5750.5 | 73031. | 4268.6 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 2:44:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50555** | **.49334** | **1.0024** | **.53243** | **.51283** | **.46743** | **.00147** | **4.7748** | **.50050** | **.51033** | **.49727** | **.49327** |
| Stddev | .00007 | .00098 | .0048 | .00049 | .00271 | .00225 | .00395 | .0153 | .00022 | .00036 | .00063 | .00093 |
| %RSD | .01475 | .19943 | .48119 | .09130 | .52786 | .48071 | 268.35 | .31945 | .04352 | .07106 | .12716 | .18817 |
| #1 | .50560 | .49404 | 1.0058 | .53277 | .51092 | .46584 | .00426 | 4.7855 | .50065 | .51059 | .49772 | .49392 |
| #2 | .50550 | .49265 | .99895 | .53209 | .51475 | .46902 | -.00132 | 4.7640 | .50034 | .51008 | .49682 | .49261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2008** | **53.651** | **1.0707** | **19.559** | **.50149** | **.49093** | **5.2388** | **.50559** | **1.0159** | **1.0074** | **.12919** | **1.0073** |
| Stddev | .0136 | .203 | .0021 | .023 | .00094 | .00181 | .0284 | .00140 | .0020 | .0013 | .00682 | .0023 |
| %RSD | .61546 | .37802 | .19593 | .11759 | .18715 | .36813 | .54158 | .27596 | .19390 | .13310 | 5.2824 | .22857 |
| #1 | 2.2104 | 53.508 | 1.0692 | 19.575 | .50083 | .49220 | 5.2187 | .50658 | 1.0173 | 1.0083 | .13401 | 1.0090 |
| #2 | 2.1912 | 53.795 | 1.0722 | 19.542 | .50215 | .48965 | 5.2588 | .50460 | 1.0146 | 1.0065 | .12436 | 1.0057 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0241** | F **4.4998** | **.97581** | **.51686** | **.00218** | **.49816** | **.97326** | **-.03415** | **.49150** | **.49242** | **.48267** |
| Stddev | .0024 | .0150 | .00157 | .00221 | .00007 | .00043 | .00066 | .00534 | .00043 | .00115 | .00191 |
| %RSD | .23958 | .33297 | .16069 | .42796 | 3.1492 | .08635 | .06756 | 15.628 | .08819 | .23414 | .39587 |
| #1 | 1.0258 | 4.5104 | .97692 | .51530 | .00223 | .49786 | .97279 | -.03038 | .49181 | .49160 | .48132 |
| #2 | 1.0223 | 4.4892 | .97470 | .51843 | .00213 | .49847 | .97372 | -.03792 | .49120 | .49323 | .48402 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5814.0** | **73973.** | **4284.3** |
| Stddev | 13.4 | 101. | 8.0 |
| %RSD | .23055 | .13590 | .18556 |
| #1 | 5823.4 | 73902. | 4290.0 |
| #2 | 5804.5 | 74044. | 4278.7 |

Sample Name: CCB Acquired: 5/17/2013 2:46:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **-.00031** | **.00396** | F **.01221** | W **-.00083** | **-.00011** | **.00136** | **-.00085** | **-.00016** | **.00025** | **.00046** |
| Stddev | .00067 | .00011 | .00170 | .00126 | .00023 | .00008 | .00034 | .00071 | .00016 | .00009 | .00015 |
| %RSD | 75.520 | 35.313 | 42.979 | 10.337 | 28.118 | 69.287 | 24.983 | 82.961 | 101.72 | 36.697 | 33.580 |
| #1 | .00041 | -.00023 | .00516 | .01311 | -.00066 | -.00006 | .00160 | -.00135 | -.00004 | .00031 | .00057 |
| #2 | .00135 | -.00039 | .00276 | .01132 | -.00099 | -.00017 | .00112 | -.00035 | -.00027 | .00018 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00087** | **-.00115** | **.17580** | W **-.00461** | **.00088** | **-.00008** | **-.00019** | **.04804** | **.00017** | **.00069** | **.00108** |
| Stddev | .00029 | .00141 | .05824 | .00279 | .00677 | .00002 | .00001 | .00200 | .00009 | .00035 | .00035 |
| %RSD | 33.102 | 122.40 | 33.129 | 60.567 | 770.42 | 25.819 | 4.7617 | 4.1734 | 54.246 | 51.210 | 32.839 |
| #1 | -.00108 | -.00015 | .13462 | -.00659 | -.00391 | -.00009 | -.00020 | .04945 | .00011 | .00044 | .00133 |
| #2 | -.00067 | -.00215 | .21698 | -.00264 | .00567 | -.00006 | -.00018 | .04662 | .00024 | .00094 | .00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11564** | **-.00224** | **.00345** | **.00043** | **.00016** | **.00009** | **.00096** | **-.00004** | **.00061** | **-.00052** | **-.00099** |
| Stddev | .00160 | .00058 | .00195 | .02063 | .00050 | .00002 | .00084 | .00003 | .00028 | .01930 | .00018 |
| %RSD | 1.3845 | 25.969 | 56.512 | 4797.8 | 311.35 | 25.987 | 87.600 | 76.174 | 45.349 | 3720.3 | 17.885 |
| #1 | .11677 | -.00265 | .00483 | -.01416 | -.00019 | .00011 | .00037 | -.00006 | .00080 | -.01416 | -.00111 |
| #2 | .11451 | -.00183 | .00207 | .01502 | .00052 | .00007 | .00156 | -.00002 | .00041 | .01313 | -.00086 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.00640** | W **.00356** |
| Stddev | .00054 | .00251 |
| %RSD | 8.4381 | 70.553 |
| #1 | .00679 | .00533 |
| #2 | .00602 | .00178 |
| Check ? | Chk Warn | Chk Warn |
| High Limit | .00453 | .00238 |
| Low Limit | -.00453 | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5863.0** | **74398.** | **4269.7** |
| Stddev | 25.1 | 84. | 8.0 |
| %RSD | .42733 | .11226 | .18848 |
| #1 | 5845.3 | 74339. | 4264.1 |
| #2 | 5880.7 | 74457. | 4275.4 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 2:49:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01221** | **.10343** | **.01717** | **.11395** | **.00981** | **.00085** | **.10571** | **.19593** | **.00528** | **.01061** | **.01045** |
| Stddev | .00001 | .00009 | .00120 | .00043 | .00013 | .00002 | .00296 | .00008 | .00003 | .00016 | .00015 |
| %RSD | .12144 | .08803 | 6.9600 | .37361 | 1.3496 | 2.6265 | 2.7998 | .04267 | .51067 | 1.4909 | 1.4387 |
| #1 | .01220 | .10337 | .01802 | .11425 | .00990 | .00084 | .10780 | .19587 | .00526 | .01049 | .01034 |
| #2 | .01222 | .10350 | .01633 | .11364 | .00971 | .00087 | .10362 | .19599 | .00530 | .01072 | .01055 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01428** | **.09194** | **3.4542** | W **.00748** | **.20442** | **.01024** | **.01966** | **1.0913** | **.04130** | **3.0079** | **.00973** |
| Stddev | .00023 | .00058 | .0239 | .00127 | .00242 | .00007 | .00041 | .0085 | .00001 | .0012 | .00102 |
| %RSD | 1.5815 | .62716 | .69304 | 16.936 | 1.1823 | .67766 | 2.0608 | .77674 | .03423 | .03966 | 10.499 |
| #1 | .01444 | .09153 | 3.4372 | .00658 | .20613 | .01019 | .01938 | 1.0853 | .04129 | 3.0070 | .01045 |
| #2 | .01412 | .09234 | 3.4711 | .00838 | .20271 | .01029 | .01995 | 1.0973 | .04131 | 3.0087 | .00900 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09834** | **.00869** | **.01461** | **.46565** | **.09881** | **.01054** | **.01624** | **.00976** | **.01551** | F **.02710** | **.00843** |
| Stddev | .00096 | .00057 | .00207 | .00113 | .00051 | .00011 | .00092 | .00019 | .00031 | .02980 | .00041 |
| %RSD | .97378 | 6.5402 | 14.190 | .24291 | .51776 | .99620 | 5.6856 | 1.9859 | 1.9946 | 109.94 | 4.8180 |
| #1 | .09901 | .00909 | .01608 | .46485 | .09844 | .01047 | .01689 | .00962 | .01529 | .04817 | .00815 |
| #2 | .09766 | .00828 | .01314 | .46645 | .09917 | .01062 | .01558 | .00990 | .01573 | .00603 | .00872 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02789** | W **.01876** |
| Stddev | .00007 | .00061 |
| %RSD | .26255 | 3.2621 |
| #1 | .02784 | .01919 |
| #2 | .02795 | .01832 |
| Check ? | Chk Fail | Chk Warn |
| Value | .02000 | .01500 |
| Range | 30.000% | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5894.6** | **74459.** | **4272.5** |
| Stddev | 3.6 | 261. | 16.4 |
| %RSD | .06062 | .35109 | .38314 |
| #1 | 5892.0 | 74644. | 4260.9 |
| #2 | 5897.1 | 74274. | 4284.1 |

Sample Name: MB 280-174342/1-A Acquired: 5/17/2013 2:51:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00144** | **.00171** | **.00191** | W **.00885** | **-.00071** | **-.00012** | **-.00096** | **.00624** | **-.00001** |
| Stddev | .00015 | .00013 | .00020 | .00032 | .00076 | .00004 | .00047 | .00168 | .00005 |
| %RSD | 10.541 | 7.6675 | 10.345 | 3.6508 | 107.65 | 35.601 | 49.194 | 26.908 | 478.87 |
| #1 | .00155 | .00180 | .00177 | .00862 | -.00125 | -.00015 | -.00063 | .00505 | -.00004 |
| #2 | .00133 | .00162 | .00205 | .00907 | -.00017 | -.00009 | -.00130 | .00742 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00027** | **-.00030** | **-.00120** | **.07358** | **-.00373** | **.00399** | **-.00001** | **-.00016** |
| Stddev | .00006 | .00025 | .00002 | .00369 | .06973 | .00124 | .00259 | .00002 | .00006 |
| %RSD | 29.417 | 93.968 | 8.2188 | 307.05 | 94.760 | 33.217 | 64.917 | 207.55 | 37.172 |
| #1 | .00025 | .00009 | -.00028 | .00141 | .02428 | -.00286 | .00581 | .00000 | -.00020 |
| #2 | .00016 | .00045 | -.00031 | -.00381 | .12289 | -.00461 | .00216 | -.00002 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03020** | **.00005** | F **.16849** | **-.00030** | **.09595** | **-.00074** | **.00218** | **.01662** | **.00016** |
| Stddev | .01197 | .00011 | .00048 | .00111 | .00061 | .00064 | .00075 | .02427 | .00017 |
| %RSD | 39.636 | 206.79 | .28599 | 365.06 | .63801 | 87.398 | 34.493 | 146.03 | 105.00 |
| #1 | .03866 | .00013 | .16815 | .00048 | .09551 | -.00028 | .00165 | -.00054 | .00004 |
| #2 | .02174 | -.00002 | .16883 | -.00109 | .09638 | -.00119 | .00271 | .03379 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00165** | **-.00027** | **-.00056** | **-.01707** | **-.00105** | **.00398** | **.00413** |
| Stddev | .00014 | .00115 | .00029 | .00105 | .02368 | .00029 | .00012 | .00149 |
| %RSD | 173.66 | 69.515 | 107.68 | 186.26 | 138.73 | 27.110 | 3.0574 | 36.118 |
| #1 | .00017 | .00084 | -.00048 | -.00130 | -.03381 | -.00126 | .00407 | .00307 |
| #2 | -.00002 | .00246 | -.00006 | .00018 | -.00032 | -.00085 | .00390 | .00518 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5879.6** | **74485.** | **4288.0** |
| Stddev | 2.8 | 6. | 29.1 |
| %RSD | .04710 | .00858 | .67940 |
| #1 | 5881.6 | 74489. | 4267.4 |
| #2 | 5877.7 | 74480. | 4308.6 |

Sample Name: LCS 280-174342/2-A Acquired: 5/17/2013 2:54:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05489** | **1.9253** | **1.0219** | **1.0699** | **2.1091** | **.04795** | **2.0657** | **47.680** | **.10422** |
| Stddev | .00000 | .0036 | .0053 | .0003 | .0053 | .00038 | .0013 | .048 | .00010 |
| %RSD | .00403 | .18872 | .52304 | .03100 | .25283 | .79446 | .06312 | .10129 | .09481 |
| #1 | .05489 | 1.9227 | 1.0257 | 1.0696 | 2.1129 | .04822 | 2.0648 | 47.646 | .10415 |
| #2 | .05489 | 1.9278 | 1.0182 | 1.0701 | 2.1053 | .04768 | 2.0667 | 47.714 | .10429 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50905** | **.20208** | **.25028** | **.88833** | **55.043** | **1.0863** | **49.570** | **.50426** | **1.0054** |
| Stddev | .00009 | .00032 | .00060 | .00135 | .012 | .0010 | .119 | .00123 | .0007 |
| %RSD | .01753 | .15636 | .24045 | .15144 | .02231 | .09126 | .24016 | .24376 | .06627 |
| #1 | .50899 | .20231 | .24985 | .88738 | 55.034 | 1.0870 | 49.486 | .50339 | 1.0059 |
| #2 | .50912 | .20186 | .25070 | .88928 | 55.051 | 1.0856 | 49.654 | .50513 | 1.0050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **56.637** | **.50159** | **10.677** | **.50420** | **.07100** | **.51853** | **2.0959** | F **9.2941** | **1.9828** |
| Stddev | .156 | .00061 | .000 | .00158 | .00059 | .00235 | .0042 | .0214 | .0036 |
| %RSD | .27461 | .12106 | .00051 | .31316 | .83258 | .45342 | .20245 | .23069 | .18216 |
| #1 | 56.527 | .50202 | 10.677 | .50308 | .07142 | .52019 | 2.0989 | 9.2789 | 1.9854 |
| #2 | 56.747 | .50116 | 10.677 | .50531 | .07058 | .51687 | 2.0929 | 9.3092 | 1.9803 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0524** | **1.0404** | **1.0172** | **1.9705** | **2.0658** | **.50307** | **.49332** | **.47952** |
| Stddev | .0018 | .0001 | .0018 | .0026 | .0025 | .00265 | .00189 | .00301 |
| %RSD | .16822 | .01017 | .17525 | .13146 | .12176 | .52685 | .38357 | .62795 |
| #1 | 1.0511 | 1.0404 | 1.0159 | 1.9724 | 2.0640 | .50119 | .49199 | .48165 |
| #2 | 1.0536 | 1.0403 | 1.0184 | 1.9687 | 2.0676 | .50494 | .49466 | .47739 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5683.6** | **71976.** | **4218.6** |
| Stddev | 3.0 | 175. | 10.3 |
| %RSD | .05347 | .24330 | .24474 |
| #1 | 5681.5 | 72100. | 4211.3 |
| #2 | 5685.8 | 71853. | 4225.9 |

Sample Name: 280-42191-A-21-A  Acquired: 5/17/2013 2:56:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00191** | **.00426** | **.00298** | **9.1623** | **.03270** | **-.00014** | **-.00360** | **118.22** | **.00002** |
| Stddev | .00081 | .00033 | .00130 | .0067 | .00058 | .00002 | .00070 | .53 | .00000 |
| %RSD | 42.293 | 7.8590 | 43.730 | .07357 | 1.7691 | 12.623 | 19.420 | .44836 | 12.571 |
| #1 | .00248 | .00449 | .00206 | 9.1671 | .03229 | -.00015 | -.00409 | 118.59 | .00002 |
| #2 | .00134 | .00402 | .00390 | 9.1575 | .03311 | -.00013 | -.00310 | 117.85 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01841** | **.00039** | **.00046** | **.02853** | **2.1323** | **.04549** | **43.046** | **.00705** | **.04689** |
| Stddev | .00028 | .00019 | .00023 | .00126 | .0120 | .00110 | .032 | .00004 | .00040 |
| %RSD | 1.5438 | 48.848 | 50.572 | 4.4014 | .56266 | 2.4254 | .07373 | .53284 | .84363 |
| #1 | .01861 | .00052 | .00029 | .02764 | 2.1238 | .04627 | 43.068 | .00702 | .04661 |
| #2 | .01821 | .00025 | .00062 | .02942 | 2.1408 | .04471 | 43.023 | .00708 | .04717 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **101.13** | **.00333** | **.20387** | **-.00003** | **79.296** | **-.00078** | **.00227** | **6.1509** | **.00092** |
| Stddev | .54 | .00027 | .00272 | .00033 | .001 | .00212 | .00186 | .0219 | .00010 |
| %RSD | .53497 | 8.0892 | 1.3348 | 968.50 | .00098 | 271.76 | 81.916 | .35668 | 11.155 |
| #1 | 100.75 | .00314 | .20195 | -.00027 | 79.295 | -.00228 | .00358 | 6.1354 | .00085 |
| #2 | 101.52 | .00352 | .20580 | .00020 | 79.296 | .00072 | .00095 | 6.1664 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96940** | **.00184** | **.00013** | **.00102** | **-.03374** | **-.00079** | **.00985** | **.00401** |
| Stddev | .00217 | .00093 | .00017 | .00089 | .02033 | .00018 | .00016 | .00062 |
| %RSD | .22372 | 50.588 | 133.66 | 86.861 | 60.250 | 23.244 | 1.6602 | 15.348 |
| #1 | .97094 | .00250 | .00001 | .00040 | -.01937 | -.00091 | .00996 | .00445 |
| #2 | .96787 | .00118 | .00025 | .00165 | -.04811 | -.00066 | .00973 | .00358 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5653.3** | **72573.** | **4237.2** |
| Stddev | 15.6 | 75. | 24.4 |
| %RSD | .27561 | .10380 | .57577 |
| #1 | 5642.3 | 72626. | 4220.0 |
| #2 | 5664.3 | 72519. | 4254.5 |

Sample Name: 280-42191-A-22-A  Acquired: 5/17/2013 2:58:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **.90967** | **.01602** | **5.3058** | **.06756** | **.00018** | **-.00089** | **70.678** | **.00022** |
| Stddev | .00030 | .00292 | .00178 | .0075 | .00034 | .00013 | .00024 | .416 | .00007 |
| %RSD | 21.629 | .32131 | 11.133 | .14152 | .50311 | 74.356 | 26.438 | .58805 | 31.941 |
| #1 | .00160 | .91173 | .01476 | 5.3111 | .06732 | .00008 | -.00073 | 70.972 | .00017 |
| #2 | .00117 | .90760 | .01728 | 5.3004 | .06780 | .00027 | -.00106 | 70.384 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01904** | **.00190** | **1.3675** | **5.9600** | **4.2937** | **.01163** | **34.354** | **.09755** | **.01777** |
| Stddev | .00002 | .00013 | .0010 | .0081 | .0210 | .00101 | .024 | .00017 | .00020 |
| %RSD | .10746 | 7.0666 | .06914 | .13605 | .48926 | 8.7247 | .06875 | .17054 | 1.1123 |
| #1 | .01903 | .00199 | 1.3682 | 5.9658 | 4.2789 | .01234 | 34.337 | .09743 | .01791 |
| #2 | .01906 | .00180 | 1.3668 | 5.9543 | 4.3086 | .01091 | 34.370 | .09766 | .01763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **39.339** | **.00549** | **.26241** | **.00470** | **31.967** | **-.00251** | **.00452** | **7.6545** | **.00049** |
| Stddev | .241 | .00036 | .00050 | .00050 | .015 | .00056 | .00152 | .0210 | .00022 |
| %RSD | .61240 | 6.6164 | .19237 | 10.707 | .04574 | 22.344 | 33.553 | .27379 | 45.219 |
| #1 | 39.169 | .00523 | .26276 | .00435 | 31.956 | -.00212 | .00345 | 7.6693 | .00065 |
| #2 | 39.510 | .00574 | .26205 | .00506 | 31.977 | -.00291 | .00559 | 7.6396 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21795** | **.00390** | **.00684** | **-.00002** | W **-.05923** | **.00003** | **.22177** | **.00501** |
| Stddev | .00044 | .00074 | .00012 | .00088 | .04028 | .00019 | .00025 | .00014 |
| %RSD | .20057 | 18.834 | 1.8102 | 5084.5 | 68.000 | 593.54 | .11131 | 2.7327 |
| #1 | .21826 | .00442 | .00675 | .00061 | -.03075 | -.00010 | .22160 | .00491 |
| #2 | .21765 | .00338 | .00692 | -.00064 | -.08771 | .00016 | .22195 | .00511 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5762.9** | **73938.** | **4335.3** |
| Stddev | 2.5 | 120. | 2.6 |
| %RSD | .04367 | .16234 | .06086 |
| #1 | 5764.7 | 74023. | 4333.5 |
| #2 | 5761.1 | 73853. | 4337.2 |

Sample Name: 280-42191-A-23-A  Acquired: 5/17/2013 3:01:08  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00153** | **.00718** | **.00001** | **1.2535** | **.11402** | **-.00021** | **-.00102** | **129.86** | **.00024** |
| Stddev | .00002 | .00041 | .00116 | .0056 | .00056 | .00013 | .00158 | .59 | .00019 |
| %RSD | 1.3180 | 5.7736 | 20561. | .44544 | .48923 | 59.520 | 154.79 | .45538 | 78.721 |
| #1 | .00154 | .00689 | .00083 | 1.2575 | .11362 | -.00012 | .00010 | 129.44 | .00010 |
| #2 | .00152 | .00747 | -.00082 | 1.2496 | .11441 | -.00030 | -.00214 | 130.28 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | **.00041** | **.00345** | **.01899** | **1.5037** | **.00057** | **37.918** | **.13781** | **.00173** |
| Stddev | .00033 | .00017 | .00057 | .00164 | .0563 | .00175 | .057 | .00034 | .00004 |
| %RSD | 29.708 | 41.409 | 16.568 | 8.6172 | 3.7419 | 306.97 | .14982 | .24336 | 2.4083 |
| #1 | .00135 | .00053 | .00385 | .02015 | 1.4639 | -.00067 | 37.958 | .13805 | .00170 |
| #2 | .00088 | .00029 | .00304 | .01783 | 1.5435 | .00181 | 37.878 | .13757 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.3576** | **10.402** | **.00132** | **.18874** | **.00265** | **13.618** | **-.00078** | **.00575** | **6.3389** |
| Stddev | .0273 | .213 | .00028 | .00092 | .00134 | .045 | .00134 | .00116 | .0196 |
| %RSD | .29120 | 2.0469 | 21.436 | .48920 | 50.453 | .32881 | 170.34 | 20.228 | .30971 |
| #1 | 9.3384 | 10.251 | .00152 | .18809 | .00170 | 13.650 | .00016 | .00493 | 6.3527 |
| #2 | 9.3769 | 10.553 | .00112 | .18940 | .00359 | 13.587 | -.00173 | .00658 | 6.3250 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.38394** | **.00050** | **.00022** | **-.00028** | **-.04216** | **-.00072** | **.00753** | **.00431** |
| Stddev | .00078 | .00205 | .00072 | .00040 | .00113 | .00067 | .00021 | .00037 | .00419 |
| %RSD | 121.05 | .53275 | 145.66 | 176.40 | 398.99 | 1.5949 | 29.474 | 4.9451 | 97.186 |
| #1 | .00120 | .38250 | -.00001 | .00050 | -.00108 | -.04168 | -.00057 | .00726 | .00135 |
| #2 | .00009 | .38539 | .00101 | -.00006 | .00052 | -.04263 | -.00087 | .00779 | .00727 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5703.0** | **72918.** | **4313.1** |
| Stddev | 1.8 | 159. | 23.5 |
| %RSD | .03211 | .21855 | .54458 |
| #1 | 5704.3 | 72805. | 4329.8 |
| #2 | 5701.7 | 73030. | 4296.5 |

Sample Name: 280-42191-A-24-A  Acquired: 5/17/2013 3:03:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **.01287** | **.01263** | **36.725** | **.01871** | **-.00003** | **-.00177** | **24.979** | **-.00020** |
| Stddev | .00012 | .00012 | .00015 | .070 | .00001 | .00011 | .00173 | .201 | .00011 |
| %RSD | 9.3895 | .90720 | 1.2161 | .19019 | .02788 | 396.30 | 97.938 | .80526 | 56.923 |
| #1 | .00122 | .01278 | .01252 | 36.676 | .01871 | .00005 | -.00299 | 24.837 | -.00028 |
| #2 | .00139 | .01295 | .01274 | 36.775 | .01871 | -.00011 | -.00054 | 25.122 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00915** | **.00035** | **.18173** | **.01806** | **17.196** | **.02343** | **14.163** | **.02035** | **1.0289** |
| Stddev | .00008 | .00026 | .00062 | .00104 | .097 | .00078 | .022 | .00002 | .0017 |
| %RSD | .88828 | 73.120 | .33925 | 5.7824 | .56630 | 3.3172 | .15656 | .11383 | .16209 |
| #1 | .00921 | .00053 | .18217 | .01879 | 17.127 | .02288 | 14.179 | .02037 | 1.0301 |
| #2 | .00909 | .00017 | .18130 | .01732 | 17.265 | .02398 | 14.148 | .02034 | 1.0277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.069** | **.01419** | **.21572** | **.00006** | **158.71** | **-.00207** | **-.00058** | **1.9007** | **.00055** |
| Stddev | .350 | .00037 | .00260 | .00054 | .17 | .00060 | .00018 | .0162 | .00027 |
| %RSD | .74267 | 2.5926 | 1.2032 | 882.58 | .10701 | 29.273 | 32.011 | .85113 | 49.445 |
| #1 | 46.822 | .01445 | .21755 | -.00032 | 158.59 | -.00249 | -.00045 | 1.8893 | .00075 |
| #2 | 47.316 | .01393 | .21388 | .00045 | 158.83 | -.00164 | -.00071 | 1.9122 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25080** | **.00130** | **.00022** | **.00329** | **.23325** | **-.00128** | **.06372** | **.00235** |
| Stddev | .00199 | .00108 | .00060 | .00008 | .02473 | .00024 | .00079 | .00036 |
| %RSD | .79488 | 83.567 | 270.21 | 2.4632 | 10.603 | 18.744 | 1.2408 | 15.088 |
| #1 | .24939 | .00053 | -.00020 | .00324 | .21576 | -.00111 | .06316 | .00261 |
| #2 | .25221 | .00207 | .00065 | .00335 | .25074 | -.00145 | .06428 | .00210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5822.8** | **74284.** | **4307.7** |
| Stddev | 2.4 | 228. | 18.8 |
| %RSD | .04147 | .30652 | .43592 |
| #1 | 5821.1 | 74123. | 4321.0 |
| #2 | 5824.5 | 74445. | 4294.5 |

Sample Name: 280-42191-A-25-A  Acquired: 5/17/2013 3:05:56  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **.00823** | **.00045** | **6.7226** | **.10526** | **-.00008** | **-.00146** | **107.45** | **.00024** |
| Stddev | .00044 | .00008 | .00087 | .0234 | .00105 | .00007 | .00059 | .41 | .00009 |
| %RSD | 31.862 | .95611 | 191.86 | .34815 | .99346 | 85.299 | 40.230 | .38368 | 36.118 |
| #1 | .00168 | .00818 | -.00016 | 6.7061 | .10600 | -.00013 | -.00187 | 107.75 | .00018 |
| #2 | .00106 | .00829 | .00106 | 6.7392 | .10452 | -.00003 | -.00104 | 107.16 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12928** | **.00045** | **.00435** | **.02342** | **5.6487** | **.01021** | **47.890** | **.01872** | **.00320** |
| Stddev | .00023 | .00012 | .00028 | .00080 | .0212 | .00027 | .037 | .00005 | .00000 |
| %RSD | .18119 | 26.796 | 6.4643 | 3.4330 | .37457 | 2.6803 | .07808 | .25974 | .03541 |
| #1 | .12911 | .00054 | .00455 | .02285 | 5.6637 | .01040 | 47.916 | .01869 | .00320 |
| #2 | .12944 | .00037 | .00415 | .02398 | 5.6338 | .01002 | 47.863 | .01876 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **73.090** | **.00171** | **.20713** | **.00214** | **37.342** | **.00002** | **-.00028** | **5.4817** | **.00042** |
| Stddev | .639 | .00018 | .00275 | .00072 | .152 | .00097 | .00389 | .0185 | .00058 |
| %RSD | .87437 | 10.753 | 1.3292 | 33.836 | .40584 | 4730.4 | 1410.2 | .33716 | 137.27 |
| #1 | 73.542 | .00158 | .20908 | .00265 | 37.235 | -.00067 | -.00303 | 5.4948 | .00001 |
| #2 | 72.638 | .00184 | .20519 | .00162 | 37.449 | .00071 | .00248 | 5.4686 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0352** | **.00311** | **-.00004** | **-.00037** | **-.04811** | **-.00062** | **.01410** | **.00410** |
| Stddev | .0037 | .00134 | .00076 | .00013 | .00260 | .00028 | .00035 | .00139 |
| %RSD | .35824 | 42.913 | 2088.3 | 36.189 | 5.4032 | 45.329 | 2.4732 | 33.926 |
| #1 | 1.0378 | .00406 | .00050 | -.00028 | -.04995 | -.00081 | .01434 | .00312 |
| #2 | 1.0325 | .00217 | -.00058 | -.00046 | -.04627 | -.00042 | .01385 | .00509 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5702.6** | **72973.** | **4297.6** |
| Stddev | 14.7 | 103. | 40.2 |
| %RSD | .25784 | .14183 | .93550 |
| #1 | 5713.0 | 72900. | 4269.2 |
| #2 | 5692.2 | 73046. | 4326.1 |

Sample Name: 280-42191-A-26-A Acquired: 5/17/2013 3:08:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00105** | **.17052** | **.00247** | **1.3259** | **.07086** | **-.00008** | **.00054** | **116.06** | **-.00000** |
| Stddev | .00057 | .00260 | .00140 | .0059 | .00003 | .00011 | .00188 | .32 | .00002 |
| %RSD | 54.321 | 1.5260 | 56.675 | .44288 | .04660 | 147.36 | 347.61 | .27709 | 1664.4 |
| #1 | .00145 | .17236 | .00346 | 1.3301 | .07084 | -.00016 | -.00079 | 116.29 | -.00002 |
| #2 | .00065 | .16868 | .00148 | 1.3218 | .07089 | .00000 | .00187 | 115.84 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00139** | **.00079** | **.00731** | **.32456** | **2.3594** | **.00749** | **30.142** | **.12177** | **.01578** |
| Stddev | .00014 | .00026 | .00028 | .00099 | .0544 | .00160 | .029 | .00018 | .00004 |
| %RSD | 10.052 | 32.171 | 3.7923 | .30442 | 2.3035 | 21.350 | .09745 | .15010 | .24530 |
| #1 | .00149 | .00061 | .00712 | .32526 | 2.3978 | .00862 | 30.163 | .12190 | .01581 |
| #2 | .00129 | .00097 | .00751 | .32386 | 2.3210 | .00636 | 30.122 | .12164 | .01575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.6795** | W **9.8272** | **.00814** | **.20059** | **.00189** | **21.519** | **-.00211** | **.00391** | **5.0989** |
| Stddev | .0074 | .1113 | .00024 | .00010 | .00011 | .016 | .00172 | .00155 | .0003 |
| %RSD | .08566 | 1.1325 | 2.9595 | .05060 | 6.0084 | .07203 | 81.329 | 39.545 | .00569 |
| #1 | 8.6848 | 9.7485 | .00797 | .20052 | .00181 | 21.530 | -.00090 | .00500 | 5.0991 |
| #2 | 8.6743 | 9.9059 | .00831 | .20066 | .00197 | 21.508 | -.00333 | .00282 | 5.0987 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 10.000 | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.25975** | **.00021** | **.00621** | **-.00004** | **-.03731** | **-.00061** | **5.2022** | **.00382** |
| Stddev | .00068 | .00132 | .00134 | .00060 | .00147 | .01382 | .00003 | .0127 | .00232 |
| %RSD | 151.30 | .50839 | 652.84 | 9.6939 | 3432.7 | 37.044 | 4.3596 | .24493 | 60.841 |
| #1 | -.00003 | .26068 | .00115 | .00579 | .00100 | -.04708 | -.00059 | 5.2112 | .00546 |
| #2 | .00093 | .25882 | -.00074 | .00664 | -.00108 | -.02753 | -.00063 | 5.1932 | .00218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5724.9** | **73554.** | **4310.3** |
| Stddev | 4.6 | 180. | 15.2 |
| %RSD | .08023 | .24458 | .35218 |
| #1 | 5728.2 | 73427. | 4299.6 |
| #2 | 5721.7 | 73681. | 4321.0 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 3:10:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00639** | **47.687** | k **.00010** | **.03738** | k **-.00056** | k **-.00005** | k **.99312** | k **-.00054** | k **-.00065** | k **.00219** | k **.00046** | k **.00431** |
| Stddev | .00770 | .280 | .00213 | .00165 | .00015 | .00002 | .02625 | .01239 | .00022 | .00011 | .00053 | .00815 |
| %RSD | 120.43 | .58630 | 2230.7 | 4.4093 | 26.722 | 46.603 | 2.6432 | 2282.8 | 33.450 | 4.9717 | 115.35 | 189.09 |
| #1 | k .01184 | 47.489 | k .00161 | .03855 | k -.00046 | k -.00003 | k .97456 | k -.00930 | k -.00050 | k .00211 | k .00084 | k .01008 |
| #2 | .00095 | 47.885 | -.00141 | .03622 | -.00067 | -.00006 | 1.0117 | .00822 | -.00080 | .00226 | .00008 | -.00145 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **45.074** | **.08374** | k **-.00349** | k **-.09340** | **-.00011** | **-.00221** | **272.05** | **.00127** | **.00850** | k **.00400** | **5.2236** | k **-.01305** |
| Stddev | .181 | .08361 | .00212 | .14709 | .00000 | .00008 | 1.48 | .00017 | .00247 | .00506 | .0143 | .01460 |
| %RSD | .40083 | 99.836 | 60.890 | 157.48 | 1.3320 | 3.6416 | .54373 | 13.443 | 29.071 | 126.42 | .27381 | 111.86 |
| #1 | k 44.946 | .02463 | k -.00499 | k -.19741 | -.00011 | -.00215 | 271.00 | .00115 | .00675 | k .00758 | 5.2135 | k -.02337 |
| #2 | 45.202 | .14286 | -.00199 | .01061 | -.00011 | -.00227 | 273.09 | .00139 | .01025 | .00042 | 5.2338 | -.00273 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00118** | k **-.00409** | k **.00036** | **.00050** | k **5.2460** | k **.00882** | k **-.00418** | k **10.084** | k **-.00083** | k **.00347** | k **.07648** |
| Stddev | .01190 | .00292 | .00010 | .00017 | .1856 | .00849 | .00007 | .014 | .00014 | .00004 | .18313 |
| %RSD | 1005.9 | 71.365 | 27.469 | 34.644 | 3.5375 | 96.270 | 1.6138 | .13892 | 16.886 | 1.0661 | 239.45 |
| #1 | k -.00960 | k -.00615 | k .00043 | .00062 | k 5.3772 | k .01483 | k -.00422 | k 10.094 | k -.00073 | k .00344 | k .20597 |
| #2 | .00723 | -.00203 | .00029 | .00038 | 5.1147 | .00282 | -.00413 | 10.074 | -.00092 | .00350 | -.05301 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5755.2** | **73285.** | **4312.0** |
| Stddev | 7.3 | 92. | 29.2 |
| %RSD | .12697 | .12544 | .67705 |
| #1 | 5760.3 | 73220. | 4332.6 |
| #2 | 5750.0 | 73350. | 4291.3 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 3:13:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50192** | **.48967** | **.99859** | **.54337** | **.50802** | **.46061** | **.00036** | **4.6976** | **.49924** | **.50765** | **.49438** | **.49013** |
| Stddev | .00045 | .00159 | .00198 | .00189 | .00105 | .00153 | .00105 | .0127 | .00066 | .00060 | .00096 | .00118 |
| %RSD | .08937 | .32478 | .19832 | .34757 | .20622 | .33264 | 289.61 | .27051 | .13310 | .11907 | .19340 | .24114 |
| #1 | .50224 | .49080 | .99999 | .54470 | .50876 | .46169 | .00110 | 4.6887 | .49971 | .50808 | .49506 | .49096 |
| #2 | .50160 | .48855 | .99719 | .54203 | .50728 | .45953 | -.00038 | 4.7066 | .49877 | .50722 | .49371 | .48929 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1678** | **52.753** | **1.0592** | **19.400** | **.49750** | **.48658** | **5.1013** | **.50050** | **1.0079** | **.99911** | **.02819** | **1.0051** |
| Stddev | .0026 | .068 | .0023 | .009 | .00040 | .00153 | .0204 | .00076 | .0056 | .00261 | .00122 | .0035 |
| %RSD | .12007 | .12949 | .21855 | .04847 | .08065 | .31399 | .40073 | .15204 | .55932 | .26111 | 4.3277 | .34839 |
| #1 | 2.1696 | 52.801 | 1.0608 | 19.407 | .49722 | .48766 | 5.1158 | .50104 | 1.0119 | 1.0010 | .02733 | 1.0026 |
| #2 | 2.1659 | 52.704 | 1.0576 | 19.393 | .49779 | .48550 | 5.0869 | .49997 | 1.0039 | .99726 | .02906 | 1.0076 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0240** | F **4.4135** | **.97274** | **.51087** | **.00324** | **.49501** | **.96772** | **-.00865** | **.48765** | **.48318** | **.47461** |
| Stddev | .0015 | .0240 | .00215 | .00017 | .00063 | .00046 | .00054 | .00280 | .00121 | .00365 | .00194 |
| %RSD | .14221 | .54469 | .22057 | .03419 | 19.406 | .09237 | .05623 | 32.310 | .24796 | .75517 | .40921 |
| #1 | 1.0230 | 4.3965 | .97426 | .51074 | .00280 | .49468 | .96811 | -.01063 | .48851 | .48060 | .47598 |
| #2 | 1.0250 | 4.4305 | .97123 | .51099 | .00369 | .49533 | .96734 | -.00668 | .48680 | .48576 | .47324 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5827.3** | **74044.** | **4340.9** |
| Stddev | 13.0 | 94. | 1.7 |
| %RSD | .22365 | .12651 | .03967 |
| #1 | 5818.1 | 74111. | 4342.1 |
| #2 | 5836.5 | 73978. | 4339.7 |

Sample Name: CCB Acquired: 5/17/2013 3:15:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00165** | **.00011** | **.00092** | F **.02252** | W **-.00080** | **-.00001** | **.00083** | **-.00282** | **-.00002** | **.00043** | **.00013** |
| Stddev | .00050 | .00034 | .00099 | .00061 | .00028 | .00000 | .00108 | .00218 | .00010 | .00017 | .00017 |
| %RSD | 30.417 | 299.71 | 107.44 | 2.7187 | 35.635 | 12.442 | 130.40 | 77.534 | 416.25 | 39.131 | 136.22 |
| #1 | .00200 | -.00013 | .00162 | .02295 | -.00060 | -.00001 | .00159 | -.00436 | -.00009 | .00055 | .00025 |
| #2 | .00129 | .00035 | .00022 | .02208 | -.00100 | -.00001 | .00006 | -.00127 | .00004 | .00031 | .00000 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00111** | **-.00566** | **.02450** | W **-.00354** | **.00010** | **-.00007** | **-.00037** | **-.01718** | **.00033** | **.00067** | **-.00060** |
| Stddev | .00043 | .00014 | .00714 | .00241 | .00182 | .00002 | .00031 | .00646 | .00027 | .00024 | .00004 |
| %RSD | 38.763 | 2.5177 | 29.139 | 67.990 | 1901.6 | 31.914 | 84.591 | 37.611 | 82.486 | 35.671 | 6.6401 |
| #1 | -.00081 | -.00576 | .02955 | -.00184 | .00138 | -.00006 | -.00058 | -.01261 | .00014 | .00050 | -.00063 |
| #2 | -.00142 | -.00556 | .01945 | -.00524 | -.00119 | -.00009 | -.00015 | -.02175 | .00052 | .00083 | -.00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03024** | **-.00118** | **.00122** | **.00072** | **.00030** | **.00014** | **.00080** | **.00003** | **.00014** | **-.02150** | W **-.00125** |
| Stddev | .00251 | .00160 | .00095 | .02494 | .00050 | .00009 | .00116 | .00002 | .00089 | .01546 | .00015 |
| %RSD | 8.3036 | 135.96 | 78.063 | 3481.9 | 165.67 | 63.469 | 145.88 | 71.778 | 638.20 | 71.907 | 12.158 |
| #1 | .03201 | -.00005 | .00190 | -.01692 | -.00005 | .00021 | -.00003 | .00004 | .00077 | -.01057 | -.00114 |
| #2 | .02846 | -.00231 | .00055 | .01835 | .00065 | .00008 | .00162 | .00001 | -.00049 | -.03243 | -.00136 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00299** | W **.00253** |
| Stddev | .00011 | .00054 |
| %RSD | 3.8273 | 21.398 |
| #1 | .00308 | .00292 |
| #2 | .00291 | .00215 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5923.0** | **74983.** | **4322.1** |
| Stddev | 1.0 | 11. | 6.8 |
| %RSD | .01637 | .01495 | .15655 |
| #1 | 5922.3 | 74976. | 4317.4 |
| #2 | 5923.7 | 74991. | 4326.9 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 3:17:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | sF **.14186** | sF **-.02139** | sF **.05253** | sF **-.12763** | kF **-.00245** | kF **-.00009** | sF **.04503** | kF **-.00652** | sF **-.00218** | sF **.00402** | sF **.00596** |
| Stddev | .19845 | .03387 | .07267 | .21624 | .00017 | .00000 | .06405 | .00135 | .00335 | .00560 | .00836 |
| %RSD | 139.88 | 158.36 | 138.36 | 169.43 | 7.0145 | 2.1702 | 142.23 | 20.745 | 153.29 | 139.40 | 140.24 |
| #1 | k .00154 | s -.04533 | s .10391 | s -.28053 | k -.00232 | k -.00009 | s .09032 | k -.00556 | s -.00455 | s .00797 | s .01187 |
| #2 | s .28219 | s .00256 | s .00114 | s .02528 | k -.00257 | k -.00009 | s -.00026 | k -.00747 | s .00018 | s .00006 | s .00005 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail |
| Value | .01000 | .10000 | .01500 | .10000 | .01000 | .00100 | .10000 | .20000 | .00500 | .01000 | .01000 |
| Range | 30.000% | -30.000% | 30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | sF **-.05388** | F **-.00555** | F **-.06289** | kF **-.00643** | sF **.04034** | sF **.00149** | sF **-.00130** | F **-.14620** | sF **.00869** | sF **-.00629** | sF **-.03165** |
| Stddev | .07020 | .00032 | .03750 | .00043 | .04972 | .00220 | .00128 | .00910 | .01231 | .00888 | .04958 |
| %RSD | 130.29 | 5.7992 | 59.619 | 6.7279 | 123.27 | 147.00 | 98.302 | 6.2212 | 141.61 | 141.15 | 156.66 |
| #1 | k -.00424 | -.00532 | -.08941 | -.00613 | k .00518 | -.00006 | s -.00221 | -.15263 | s .01740 | s -.01257 | s -.06671 |
| #2 | s -.10351 | -.00577 | -.03638 | k -.00674 | s .07550 | s .00305 | s -.00040 | -.13977 | s -.00001 | s -.00001 | s .00341 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail |
| Value | .01500 | .10000 | 3.0000 | .01000 | .20000 | .01000 | .02000 | 1.0000 | .04000 | 3.0000 | .00900 |
| Range | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | s **-.16455** | sF **.01831** | sF **.00188** | kF **-.01274** | sF **.00146** | F **-.00002** | sF **-.01639** | s **.00854** | sF **.02742** | sF **-.84020** | sF **-.02016** |
| Stddev | .20865 | .02701 | .00379 | .00096 | .00090 | .00001 | .02622 | .01086 | .03963 | 1.1102 | .02647 |
| %RSD | 126.80 | 147.51 | 201.91 | 7.5110 | 61.693 | 62.259 | 159.95 | 127.24 | 144.50 | 132.14 | 131.27 |
| #1 | s -.31208 | s .03741 | s -.00080 | k -.01342 | s .00210 | -.00003 | k .00215 | k .00086 | s .05544 | k -.05516 | k -.00145 |
| #2 | s -.01701 | s -.00079 | s .00456 | k -.01206 | s .00082 | -.00001 | s -.03494 | s .01622 | s -.00060 | s -1.6252 | s -.03888 |
| Check ? | None | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Fail | Chk Fail |
| Value | | .01000 | .01500 | .50000 | .10000 | .01000 | .01500 | | .01500 | .06000 | .01000 |
| Range | | 30.000% | -30.000% | -30.000% | -30.000% | -30.000% | -30.000% | | 30.000% | -30.000% | -30.000% |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | sF **-.01844** | kF **.00740** |
| Stddev | .02599 | .00217 |
| %RSD | 140.93 | 29.381 |
| #1 | k -.00006 | k .00586 |
| #2 | s -.03682 | k .00893 |
| Check ? | Chk Fail | Chk Fail |
| Value | .02000 | .01500 |
| Range | -30.000% | -30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | ^ ***** | ^ ***** | **8509.7** |
| Stddev | ----- | ----- | 730.9 |
| %RSD | ----- | ----- | 8.5892 |
| #1 | ^ ----- | 111460. | 7992.8 |
| #2 | ^ ----- | ^ ----- | 9026.5 |

Sample Name: 280-42191-A-27-A  Acquired: 5/17/2013 3:20:20  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **.71031** | **.01375** | **1.5312** | **.06031** | **-.00005** | **-.00226** | **71.847** | **.00042** |
| Stddev | .00017 | .00176 | .00007 | .0008 | .00076 | .00013 | .00017 | .031 | .00002 |
| %RSD | 13.416 | .24807 | .50371 | .05006 | 1.2592 | 267.21 | 7.4038 | .04366 | 5.5960 |
| #1 | .00136 | .71155 | .01370 | 1.5307 | .06085 | .00004 | -.00237 | 71.869 | .00043 |
| #2 | .00112 | .70906 | .01380 | 1.5318 | .05977 | -.00014 | -.00214 | 71.825 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **.00157** | **.02067** | **.60687** | **3.7188** | **.01024** | **23.728** | **.02004** | **.00290** |
| Stddev | .00033 | .00014 | .00027 | .00490 | .0423 | .00005 | .017 | .00000 | .00007 |
| %RSD | 31.116 | 9.1476 | 1.3265 | .80692 | 1.1376 | .46274 | .07292 | .00168 | 2.3702 |
| #1 | .00083 | .00146 | .02086 | .61033 | 3.7487 | .01028 | 23.740 | .02004 | .00295 |
| #2 | .00130 | .00167 | .02047 | .60340 | 3.6889 | .01021 | 23.715 | .02004 | .00285 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.584** | **.00249** | **.28476** | **.00621** | **30.504** | **.00058** | **.00174** | **5.4015** | **.00051** |
| Stddev | .486 | .00014 | .00214 | .00020 | .009 | .00194 | .00238 | .0629 | .00007 |
| %RSD | 1.7606 | 5.6428 | .75154 | 3.1972 | .02888 | 333.01 | 136.72 | 1.1649 | 13.038 |
| #1 | 27.928 | .00239 | .28324 | .00607 | 30.510 | -.00079 | .00342 | 5.4460 | .00046 |
| #2 | 27.241 | .00258 | .28627 | .00635 | 30.497 | .00196 | .00006 | 5.3570 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16463** | **.00259** | **.02045** | **.00017** | **-.04011** | **.00102** | **.07926** | **.00423** |
| Stddev | .00019 | .00261 | .00262 | .00075 | .04128 | .00015 | .00015 | .00124 |
| %RSD | .11562 | 100.89 | 12.789 | 450.09 | 102.91 | 14.737 | .19025 | 29.337 |
| #1 | .16450 | .00444 | .01860 | -.00036 | -.06930 | .00091 | .07937 | .00336 |
| #2 | .16477 | .00074 | .02230 | .00070 | -.01092 | .00112 | .07915 | .00511 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5639.3** | **71836.** | **4158.4** |
| Stddev | 3.7 | 196. | 17.4 |
| %RSD | .06601 | .27266 | .41868 |
| #1 | 5636.7 | 71697. | 4170.7 |
| #2 | 5642.0 | 71974. | 4146.0 |

Sample Name: sd 42191-A-27-A@5 Acquired: 5/17/2013 3:22:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00152** | **.16981** | **.00692** | **.32591** | **.01157** | **-.00004** | **.00043** | **14.622** | **.00005** |
| Stddev | .00075 | .00117 | .00320 | .00041 | .00010 | .00006 | .00069 | .049 | .00013 |
| %RSD | 49.257 | .68899 | 46.203 | .12624 | .86903 | 146.47 | 160.92 | .33237 | 250.61 |
| #1 | .00099 | .17064 | .00918 | .32620 | .01164 | -.00008 | .00091 | 14.656 | -.00004 |
| #2 | .00205 | .16899 | .00466 | .32562 | .01150 | .00000 | -.00006 | 14.588 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00061** | **.00334** | **.14535** | **.79843** | **-.00026** | **4.9116** | **.00428** | **.00034** |
| Stddev | .00023 | .00016 | .00025 | .00030 | .05969 | .00137 | .0162 | .00003 | .00004 |
| %RSD | 48.635 | 25.472 | 7.6219 | .20361 | 7.4755 | 520.14 | .33007 | .75106 | 12.415 |
| #1 | .00063 | .00050 | .00316 | .14514 | .84063 | -.00123 | 4.9230 | .00425 | .00031 |
| #2 | .00031 | .00073 | .00352 | .14556 | .75622 | .00070 | 4.9001 | .00430 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.0392** | **.00071** | **.05962** | **.00171** | **6.2499** | **-.00184** | **-.00015** | **1.1439** | **.00011** |
| Stddev | .0236 | .00016 | .00154 | .00142 | .0052 | .00021 | .00245 | .0137 | .00020 |
| %RSD | .46776 | 21.831 | 2.5840 | 83.372 | .08388 | 11.406 | 1603.3 | 1.1961 | 173.62 |
| #1 | 5.0558 | .00060 | .06071 | .00272 | 6.2536 | -.00199 | -.00188 | 1.1342 | -.00003 |
| #2 | 5.0225 | .00082 | .05853 | .00070 | 6.2462 | -.00169 | .00158 | 1.1535 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03382** | **.00159** | **.00472** | **-.00048** | **-.03843** | **-.00083** | **.01931** | **.00418** |
| Stddev | .00002 | .00161 | .00094 | .00094 | .02466 | .00034 | .00025 | .00008 |
| %RSD | .06577 | 101.29 | 19.871 | 196.60 | 64.170 | 41.113 | 1.3122 | 1.9122 |
| #1 | .03381 | .00272 | .00538 | -.00114 | -.05587 | -.00107 | .01913 | .00424 |
| #2 | .03384 | .00045 | .00405 | .00019 | -.02099 | -.00059 | .01949 | .00413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5812.5** | **74098.** | **4280.6** |
| Stddev | 16.5 | 417. | 12.2 |
| %RSD | .28310 | .56300 | .28554 |
| #1 | 5824.1 | 73803. | 4272.0 |
| #2 | 5800.8 | 74393. | 4289.3 |

Sample Name: 280-42191-A-27-B MS  Acquired: 5/17/2013 3:25:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05479** | W **2.7698** | F **2.9524** | **1.0409** | **2.5989** | **2.1554** | **.04752** | **2.0695** | **117.76** |
| Stddev | .00057 | .0018 | .0111 | .0011 | .0011 | .0189 | .00044 | .0020 | 1.27 |
| %RSD | 1.0332 | .06449 | .37572 | .10249 | .04366 | .87875 | .92513 | .09577 | 1.0812 |
| #1 | .05439 | 2.7685 | 2.9603 | 1.0416 | 2.5981 | 2.1688 | .04783 | 2.0709 | 118.66 |
| #2 | .05519 | 2.7710 | 2.9446 | 1.0401 | 2.5997 | 2.1420 | .04721 | 2.0681 | 116.86 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.7000 | 1000.0 | | | | | | |
| Low Limit | | -.05000 | 3.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10472** | **.50692** | **.20260** | **.27396** | **1.4930** | **58.304** | **1.0957** | **72.907** | **.52225** |
| Stddev | .00015 | .00085 | .00009 | .00109 | .0055 | .682 | .0128 | .093 | .00059 |
| %RSD | .14682 | .16710 | .04409 | .39629 | .36555 | 1.1699 | 1.1682 | .12707 | .11348 |
| #1 | .10461 | .50633 | .20266 | .27319 | 1.4969 | 58.786 | 1.1048 | 72.842 | .52183 |
| #2 | .10483 | .50752 | .20253 | .27473 | 1.4891 | 57.822 | 1.0867 | 72.973 | .52267 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0022** | **83.372** | **.49775** | **10.920** | **.50690** | **31.114** | **.52486** | **2.1115** | **14.903** |
| Stddev | .0003 | .380 | .00025 | .006 | .00130 | .020 | .00345 | .0096 | .130 |
| %RSD | .03269 | .45561 | .05117 | .05474 | .25744 | .06455 | .65710 | .45296 | .86987 |
| #1 | 1.0024 | 83.640 | .49757 | 10.924 | .50782 | 31.128 | .52730 | 2.1183 | 14.995 |
| #2 | 1.0020 | 83.103 | .49793 | 10.916 | .50598 | 31.100 | .52243 | 2.1048 | 14.812 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9644** | **1.2084** | **1.0374** | **1.0350** | **1.9485** | **2.0573** | **.50561** | **.55880** | **.47523** |
| Stddev | .0022 | .0135 | .0015 | .0054 | .0009 | .0363 | .00153 | .00224 | .00499 |
| %RSD | .11203 | 1.1195 | .14558 | .52265 | .04702 | 1.7629 | .30335 | .40032 | 1.0499 |
| #1 | 1.9659 | 1.2180 | 1.0385 | 1.0311 | 1.9479 | 2.0829 | .50453 | .55722 | .47876 |
| #2 | 1.9628 | 1.1989 | 1.0363 | 1.0388 | 1.9492 | 2.0317 | .50670 | .56038 | .47170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5586.3** | **71132.** | **4240.8** |
| Stddev | 7.2 | 113. | 52.4 |
| %RSD | .12882 | .15844 | 1.2365 |
| #1 | 5591.4 | 71212. | 4203.7 |
| #2 | 5581.2 | 71053. | 4277.9 |

Sample Name: 280-42191-A-27-C MSD Acquired: 5/17/2013 3:27:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05477** | W **2.7556** | F **2.9719** | **1.0479** | **2.6039** | **2.1646** | **.04762** | **2.0916** | **117.87** |
| Stddev | .00003 | .0003 | .0241 | .0030 | .0004 | .0242 | .00049 | .0044 | 1.50 |
| %RSD | .05762 | .01148 | .81210 | .28955 | .01545 | 1.1190 | 1.0242 | .20828 | 1.2688 |
| #1 | .05479 | 2.7553 | 2.9548 | 1.0457 | 2.6042 | 2.1475 | .04727 | 2.0885 | 116.81 |
| #2 | .05475 | 2.7558 | 2.9890 | 1.0500 | 2.6036 | 2.1817 | .04796 | 2.0947 | 118.93 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.7000 | 1000.0 | | | | | | |
| Low Limit | | -.05000 | 3.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10565** | **.50962** | **.20390** | **.27533** | **1.4938** | **58.977** | **1.1042** | **72.608** | **.52226** |
| Stddev | .00004 | .00002 | .00024 | .00034 | .0100 | .692 | .0145 | .016 | .00019 |
| %RSD | .03567 | .00449 | .11933 | .12346 | .66592 | 1.1726 | 1.3091 | .02257 | .03639 |
| #1 | .10568 | .50961 | .20373 | .27509 | 1.4868 | 58.488 | 1.0940 | 72.620 | .52213 |
| #2 | .10562 | .50964 | .20407 | .27557 | 1.5008 | 59.466 | 1.1144 | 72.597 | .52240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0086** | **83.814** | **.49982** | **10.968** | **.51001** | **31.008** | **.52980** | **2.1248** | **15.034** |
| Stddev | .0017 | .207 | .00015 | .010 | .00109 | .032 | .00253 | .0043 | .111 |
| %RSD | .16685 | .24706 | .02960 | .08913 | .21448 | .10217 | .47847 | .20178 | .73667 |
| #1 | 1.0074 | 83.668 | .49971 | 10.961 | .50923 | 30.985 | .53160 | 2.1218 | 14.955 |
| #2 | 1.0098 | 83.960 | .49992 | 10.975 | .51078 | 31.030 | .52801 | 2.1278 | 15.112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9811** | **1.2208** | **1.0513** | **1.0414** | **1.9656** | **2.0633** | **.50470** | **.55820** | **.48067** |
| Stddev | .0008 | .0180 | .0030 | .0012 | .0019 | .0305 | .00025 | .00024 | .00303 |
| %RSD | .04102 | 1.4710 | .28514 | .11325 | .09405 | 1.4769 | .04915 | .04305 | .63106 |
| #1 | 1.9816 | 1.2081 | 1.0491 | 1.0422 | 1.9643 | 2.0418 | .50452 | .55803 | .48282 |
| #2 | 1.9805 | 1.2335 | 1.0534 | 1.0405 | 1.9669 | 2.0849 | .50487 | .55837 | .47853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5623.5** | **71993.** | **4264.1** |
| Stddev | .3 | 167. | 34.1 |
| %RSD | .00608 | .23257 | .79924 |
| #1 | 5623.7 | 71874. | 4288.2 |
| #2 | 5623.2 | 72111. | 4240.0 |

Sample Name: 280-42191-A-28-A  Acquired: 5/17/2013 3:29:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **.03545** | **.00137** | **1.4241** | **.09583** | **-.00012** | **-.00138** | **127.07** | **.00095** |
| Stddev | .00002 | .00163 | .00227 | .0010 | .00001 | .00007 | .00127 | .08 | .00003 |
| %RSD | 1.8987 | 4.5941 | 165.50 | .06895 | .00916 | 61.678 | 91.997 | .06548 | 2.9232 |
| #1 | .00123 | .03430 | -.00023 | 1.4234 | .09584 | -.00007 | -.00048 | 127.01 | .00097 |
| #2 | .00120 | .03660 | .00297 | 1.4248 | .09583 | -.00017 | -.00227 | 127.13 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00208** | **.00032** | **.00408** | **.03752** | **7.1521** | **.00978** | **46.399** | **.09575** | **.01862** |
| Stddev | .00006 | .00003 | .00014 | .00288 | .0310 | .00148 | .228 | .00037 | .00004 |
| %RSD | 2.7841 | 8.2241 | 3.3642 | 7.6879 | .43365 | 15.159 | .49152 | .39068 | .22334 |
| #1 | .00204 | .00030 | .00398 | .03548 | 7.1302 | .01083 | 46.238 | .09549 | .01859 |
| #2 | .00213 | .00033 | .00417 | .03956 | 7.1740 | .00873 | 46.560 | .09602 | .01865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.153** | **.00647** | **.14952** | **.00177** | **54.198** | **.00026** | **.00035** | **4.1859** | **.00113** |
| Stddev | .165 | .00001 | .00006 | .00077 | .021 | .00373 | .00099 | .0012 | .00020 |
| %RSD | .77947 | .19364 | .03993 | 43.700 | .03855 | 1456.1 | 284.08 | .02845 | 17.436 |
| #1 | 21.036 | .00647 | .14956 | .00231 | 54.183 | .00290 | .00104 | 4.1851 | .00099 |
| #2 | 21.270 | .00646 | .14947 | .00122 | 54.213 | -.00238 | -.00035 | 4.1867 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0949** | **.00330** | **.00060** | **.00269** | W **-.06675** | **-.00128** | **5.1010** | **.00364** |
| Stddev | .0014 | .00070 | .00029 | .00072 | .02905 | .00079 | .0203 | .00043 |
| %RSD | .13186 | 21.260 | 48.332 | 26.748 | 43.519 | 61.879 | .39770 | 11.740 |
| #1 | 1.0939 | .00280 | .00080 | .00320 | -.04621 | -.00072 | 5.0867 | .00395 |
| #2 | 1.0959 | .00380 | .00039 | .00218 | -.08729 | -.00184 | 5.1154 | .00334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5664.0** | **73075.** | **4245.3** |
| Stddev | 11.9 | 88. | 7.5 |
| %RSD | .20926 | .12059 | .17737 |
| #1 | 5655.6 | 73137. | 4240.0 |
| #2 | 5672.4 | 73013. | 4250.6 |

Sample Name: 280-42191-A-29-A  Acquired: 5/17/2013 3:31:56  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00161** | **.18696** | **.00559** | **.03589** | **.01554** | **.00002** | **-.00114** | **21.289** | **.00024** |
| Stddev | .00026 | .00026 | .00076 | .00026 | .00046 | .00010 | .00132 | .022 | .00018 |
| %RSD | 16.142 | .13827 | 13.542 | .72792 | 2.9910 | 615.19 | 116.36 | .10239 | 76.057 |
| #1 | .00180 | .18714 | .00505 | .03607 | .01521 | -.00006 | -.00207 | 21.305 | .00037 |
| #2 | .00143 | .18678 | .00612 | .03570 | .01587 | .00009 | -.00020 | 21.274 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00294** | **.00353** | **.96015** | **.85167** | **-.00299** | **2.3526** | **.10117** | **.00181** |
| Stddev | .00002 | .00007 | .00056 | .00666 | .03495 | .00001 | .0080 | .00029 | .00013 |
| %RSD | 5.9499 | 2.4463 | 15.887 | .69319 | 4.1040 | .31770 | .34165 | .28916 | 7.2783 |
| #1 | .00038 | .00289 | .00392 | .96486 | .87638 | -.00300 | 2.3469 | .10097 | .00171 |
| #2 | .00042 | .00299 | .00313 | .95545 | .82695 | -.00298 | 2.3583 | .10138 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **36.850** | **.00105** | **.24353** | **.01271** | **7.3426** | **-.00123** | **.00306** | **2.2020** | **.00110** |
| Stddev | .032 | .00015 | .00372 | .00185 | .0226 | .00168 | .00173 | .0054 | .00012 |
| %RSD | .08559 | 13.840 | 1.5272 | 14.539 | .30736 | 136.33 | 56.383 | .24600 | 11.242 |
| #1 | 36.872 | .00095 | .24616 | .01402 | 7.3586 | -.00242 | .00184 | 2.2058 | .00118 |
| #2 | 36.827 | .00115 | .24090 | .01140 | 7.3266 | -.00004 | .00429 | 2.1981 | .00101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08444** | **.00195** | **.00470** | **-.00066** | W **-.06969** | **.00014** | **.04332** | **.00185** |
| Stddev | .00029 | .00194 | .00039 | .00040 | .00945 | .00045 | .00080 | .00058 |
| %RSD | .34388 | 99.503 | 8.2854 | 59.804 | 13.564 | 318.98 | 1.8372 | 31.306 |
| #1 | .08464 | .00333 | .00443 | -.00038 | -.07637 | -.00018 | .04388 | .00144 |
| #2 | .08423 | .00058 | .00498 | -.00095 | -.06301 | .00046 | .04276 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5867.8** | **74372.** | **4363.0** |
| Stddev | 2.8 | 70. | 8.3 |
| %RSD | .04735 | .09476 | .19068 |
| #1 | 5865.9 | 74422. | 4357.1 |
| #2 | 5869.8 | 74322. | 4368.8 |

Sample Name: 280-42191-A-30-A  Acquired: 5/17/2013 3:34:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **.39194** | **.00365** | **.81319** | **.13465** | **-.00013** | **-.00121** | **194.96** | **.00019** |
| Stddev | .00004 | .00247 | .00295 | .00192 | .00041 | .00011 | .00114 | 1.03 | .00003 |
| %RSD | 3.4683 | .63114 | 80.808 | .23607 | .30624 | 82.971 | 94.755 | .52895 | 14.641 |
| #1 | .00121 | .39019 | .00574 | .81455 | .13494 | -.00005 | -.00040 | 195.69 | .00021 |
| #2 | .00127 | .39369 | .00157 | .81183 | .13436 | -.00021 | -.00202 | 194.23 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **.00698** | **.00668** | **3.8810** | **4.5228** | **.00902** | **38.696** | **.33959** | **.00027** |
| Stddev | .00004 | .00006 | .00043 | .0041 | .0477 | .00087 | .015 | .00059 | .00017 |
| %RSD | 4.8316 | .84720 | 6.4667 | .10541 | 1.0549 | 9.6786 | .03973 | .17449 | 63.768 |
| #1 | .00093 | .00694 | .00637 | 3.8839 | 4.5565 | .00964 | 38.685 | .34001 | .00039 |
| #2 | .00087 | .00702 | .00698 | 3.8781 | 4.4891 | .00840 | 38.707 | .33918 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **316.60** | **.00495** | **.79648** | **.02986** | **92.061** | **.00004** | **.00259** | **9.3479** | **.00032** |
| Stddev | 1.23 | .00014 | .00310 | .00114 | .001 | .00154 | .00749 | .0211 | .00059 |
| %RSD | .38815 | 2.8825 | .38926 | 3.8068 | .00129 | 4335.7 | 289.12 | .22557 | 183.50 |
| #1 | 317.47 | .00505 | .79867 | .02906 | 92.062 | .00113 | .00789 | 9.3628 | -.00010 |
| #2 | 315.73 | .00485 | .79428 | .03066 | 92.061 | -.00105 | -.00271 | 9.3330 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.69922** | **.00277** | **.01342** | **.00207** | **-.02606** | **.00152** | **.07777** | **.00445** |
| Stddev | .00435 | .00397 | .00063 | .00171 | .01122 | .00027 | .00010 | .00055 |
| %RSD | .62266 | 143.23 | 4.6812 | 82.975 | 43.053 | 18.024 | .12687 | 12.263 |
| #1 | .70230 | .00558 | .01386 | .00328 | -.03400 | .00172 | .07770 | .00484 |
| #2 | .69614 | -.00004 | .01298 | .00085 | -.01813 | .00133 | .07784 | .00406 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5610.6** | **72403.** | **4318.4** |
| Stddev | 33.3 | 59. | 30.5 |
| %RSD | .59400 | .08090 | .70738 |
| #1 | 5634.2 | 72444. | 4296.8 |
| #2 | 5587.1 | 72362. | 4340.0 |

Sample Name: 280-42191-A-31-A Acquired: 5/17/2013 3:36:49 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00183** | **.00162** | **.00276** | **.01274** | **-.00068** | **-.00007** | **-.00161** | **.03736** | **-.00008** |
| Stddev | .00023 | .00022 | .00067 | .00034 | .00022 | .00007 | .00006 | .00127 | .00003 |
| %RSD | 12.762 | 13.341 | 24.248 | 2.7062 | 32.330 | 101.00 | 3.5671 | 3.4009 | 34.473 |
| #1 | .00166 | .00177 | .00323 | .01299 | -.00052 | -.00002 | -.00157 | .03826 | -.00009 |
| #2 | .00199 | .00147 | .00228 | .01250 | -.00083 | -.00012 | -.00165 | .03646 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00037** | **.00375** | **.00206** | **.14600** | **-.00269** | **.00743** | **.00008** | **-.00005** |
| Stddev | .00009 | .00010 | .00035 | .00138 | .06680 | .00037 | .00187 | .00003 | .00010 |
| %RSD | 52.745 | 25.717 | 9.4509 | 67.178 | 45.755 | 13.795 | 25.153 | 30.795 | 187.84 |
| #1 | .00023 | .00044 | .00350 | .00108 | .19324 | -.00296 | .00611 | .00007 | .00002 |
| #2 | .00010 | .00030 | .00400 | .00304 | .09877 | -.00243 | .00875 | .00010 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08252** | **.00025** | **.17950** | **.00130** | **.02437** | **-.00266** | **.00479** | **.03514** | **.00024** |
| Stddev | .00168 | .00000 | .00030 | .00049 | .00023 | .00016 | .00114 | .00105 | .00040 |
| %RSD | 2.0340 | 1.0100 | .16990 | 37.238 | .95094 | 6.0328 | 23.825 | 2.9889 | 169.87 |
| #1 | .08371 | .00025 | .17928 | .00096 | .02421 | -.00277 | .00560 | .03588 | .00052 |
| #2 | .08133 | .00025 | .17971 | .00165 | .02453 | -.00254 | .00399 | .03440 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00201** | **-.00011** | **-.00114** | **-.00124** | **-.00093** | **.00582** | **.00403** |
| Stddev | .00000 | .00041 | .00025 | .00041 | .02492 | .00020 | .00007 | .00019 |
| %RSD | .85306 | 20.584 | 226.58 | 35.523 | 2017.7 | 21.233 | 1.2318 | 4.6333 |
| #1 | .00016 | .00171 | -.00029 | -.00086 | .01639 | -.00079 | .00588 | .00416 |
| #2 | .00016 | .00230 | .00007 | -.00143 | -.01886 | -.00107 | .00577 | .00390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5853.0** | **74288.** | **4288.1** |
| Stddev | 10.0 | 209. | 20.6 |
| %RSD | .17134 | .28081 | .48027 |
| #1 | 5845.9 | 74435. | 4302.7 |
| #2 | 5860.1 | 74140. | 4273.6 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 3:39:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00133** | **47.829** | **.00226** | **.01166** | **-.00046** | **-.00012** | **1.0126** | **-.00028** | **-.00087** | **.00217** | **.00013** | **-.00168** | **45.623** |
| Stddev | .00017 | .116 | .00224 | .00057 | .00079 | .00003 | .0042 | .00102 | .00008 | .00008 | .00015 | .00035 | .350 |
| %RSD | 12.687 | .24304 | 99.272 | 4.9126 | 173.86 | 21.274 | .41595 | 366.34 | 9.6682 | 3.7577 | 119.07 | 20.872 | .76664 |
| #1 | .00121 | 47.911 | .00384 | .01207 | .00010 | -.00010 | 1.0096 | .00044 | -.00093 | .00211 | .00024 | -.00193 | 45.870 |
| #2 | .00144 | 47.747 | .00067 | .01126 | -.00102 | -.00014 | 1.0155 | -.00100 | -.00081 | .00223 | .00002 | -.00143 | 45.376 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03127** | **-.00296** | **.00968** | **-.00010** | **-.00200** | **273.41** | **.00111** | **.00750** | **.00071** | **5.2407** | **.00082** | **.00693** | **.01062** |
| Stddev | .03575 | .00109 | .00017 | .00007 | .00008 | 1.83 | .00008 | .00260 | .00094 | .0196 | .00257 | .00292 | .01804 |
| %RSD | 114.32 | 36.916 | 1.7316 | 71.045 | 3.9682 | .66880 | 7.0156 | 34.679 | 131.55 | .37445 | 315.31 | 42.155 | 169.80 |
| #1 | .00599 | -.00374 | .00980 | -.00015 | -.00205 | 274.70 | .00116 | .00566 | .00138 | 5.2268 | -.00100 | .00899 | -.00213 |
| #2 | .05654 | -.00219 | .00956 | -.00005 | -.00194 | 272.12 | .00105 | .00934 | .00005 | 5.2545 | .00263 | .00486 | .02338 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **.00039** | **5.1826** | **.00313** | **-.00177** | **10.168** | **-.00192** | **.00333** | **-.05077** |
| Stddev | .00056 | .00006 | .0038 | .00027 | .00019 | .035 | .00020 | .00030 | .00063 |
| %RSD | 55.779 | 15.842 | .07385 | 8.5336 | 10.693 | .34903 | 10.177 | 8.8569 | 1.2398 |
| #1 | .00061 | .00043 | 5.1799 | .00294 | -.00164 | 10.143 | -.00206 | .00354 | -.05122 |
| #2 | .00140 | .00034 | 5.1853 | .00331 | -.00191 | 10.193 | -.00178 | .00312 | -.05033 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5742.2** | **72065.** | **4283.2** |
| Stddev | 27.4 | 135. | 20.5 |
| %RSD | .47768 | .18737 | .47887 |
| #1 | 5722.8 | 71969. | 4268.7 |
| #2 | 5761.6 | 72160. | 4297.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 3:41:42 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50980** | **.49761** | **1.0030** | **.52935** | **.51859** | **.46705** | **.00277** | **4.7841** | **.50408** | **.51447** | **.49884** | **.49284** |
| Stddev | .00087 | .00178 | .0013 | .00169 | .00300 | .00319 | .00388 | .0168 | .00036 | .00021 | .00036 | .00273 |
| %RSD | .17024 | .35768 | .12524 | .31917 | .57803 | .68315 | 140.16 | .35090 | .07204 | .04161 | .07193 | .55464 |
| #1 | .51041 | .49635 | 1.0039 | .52815 | .52071 | .46931 | .00551 | 4.7960 | .50434 | .51432 | .49910 | .49478 |
| #2 | .50918 | .49887 | 1.0021 | .53054 | .51648 | .46480 | .00002 | 4.7723 | .50383 | .51463 | .49859 | .49091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2019** | **54.037** | **1.0797** | **19.542** | **.50507** | **.49174** | **5.1805** | **.50630** | **1.0239** | **1.0126** | **.00087** | **1.0146** |
| Stddev | .0117 | .336 | .0095 | .059 | .00033 | .00199 | .0272 | .00082 | .0053 | .0039 | .00040 | .0015 |
| %RSD | .52930 | .62192 | .87819 | .30348 | .06609 | .40571 | .52527 | .16258 | .51429 | .38808 | 45.998 | .14857 |
| #1 | 2.2102 | 54.275 | 1.0864 | 19.584 | .50531 | .49315 | 5.1998 | .50688 | 1.0277 | 1.0154 | .00058 | 1.0157 |
| #2 | 2.1937 | 53.800 | 1.0730 | 19.500 | .50484 | .49033 | 5.1613 | .50572 | 1.0202 | 1.0098 | .00115 | 1.0135 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0313** | F **4.4828** | **.97908** | **.52527** | **.00163** | **.50177** | **.97635** | **-.00197** | **.49200** | **.48976** | **.48267** |
| Stddev | .0020 | .0309 | .00255 | .00261 | .00071 | .00000 | .00051 | .01052 | .00034 | .00001 | .00490 |
| %RSD | .19241 | .68903 | .25994 | .49637 | 43.862 | .00044 | .05232 | 534.50 | .07009 | .00140 | 1.0150 |
| #1 | 1.0327 | 4.5046 | .98088 | .52712 | .00112 | .50177 | .97599 | -.00941 | .49225 | .48977 | .48614 |
| #2 | 1.0299 | 4.4609 | .97728 | .52343 | .00213 | .50177 | .97671 | .00547 | .49176 | .48976 | .47921 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5810.0** | **73742.** | **4291.7** |
| Stddev | .8 | 313. | 10.7 |
| %RSD | .01325 | .42451 | .24896 |
| #1 | 5810.5 | 73520. | 4284.2 |
| #2 | 5809.4 | 73963. | 4299.3 |

Sample Name: CCB Acquired: 5/17/2013 3:43:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00123** | **-.00042** | W **.00480** | F **.00901** | W **-.00084** | **-.00000** | **.00250** | **-.00545** | **-.00004** | **.00009** | **.00023** |
| Stddev | .00018 | .00005 | .00136 | .00050 | .00001 | .00003 | .00077 | .00294 | .00016 | .00009 | .00023 |
| %RSD | 14.623 | 12.520 | 28.350 | 5.5435 | .96246 | 1038.9 | 30.969 | 53.823 | 381.86 | 99.605 | 102.59 |
| #1 | .00110 | -.00039 | .00384 | .00866 | -.00083 | -.00003 | .00195 | -.00338 | -.00016 | .00003 | .00039 |
| #2 | .00135 | -.00046 | .00577 | .00937 | -.00084 | .00002 | .00304 | -.00753 | .00007 | .00016 | .00006 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | .00440 | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | -.00440 | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00066** | **.00102** | **.05709** | W **-.00421** | **.00115** | **-.00006** | **-.00018** | **-.00662** | **.00001** | **.00176** | **-.00021** |
| Stddev | .00012 | .00261 | .01189 | .00227 | .00202 | .00004 | .00031 | .00113 | .00018 | .00058 | .00111 |
| %RSD | 18.441 | 255.79 | 20.832 | 54.005 | 175.70 | 64.120 | 172.68 | 17.113 | 2733.2 | 33.190 | 518.30 |
| #1 | -.00057 | -.00082 | .04868 | -.00582 | .00258 | -.00003 | .00004 | -.00582 | -.00012 | .00217 | .00057 |
| #2 | -.00074 | .00286 | .06550 | -.00260 | -.00028 | -.00009 | -.00040 | -.00742 | .00013 | .00134 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00525** | **-.00184** | **-.00059** | **.01002** | **-.00021** | **.00020** | **.00168** | **.00001** | **-.00081** | **-.02480** | W **-.00121** |
| Stddev | .00051 | .00161 | .00086 | .00454 | .00040 | .00003 | .00057 | .00034 | .00056 | .03022 | .00039 |
| %RSD | 9.7335 | 87.711 | 145.07 | 45.333 | 193.48 | 16.713 | 34.195 | 2385.9 | 69.104 | 121.85 | 32.061 |
| #1 | .00562 | -.00070 | -.00120 | .00681 | -.00049 | .00018 | .00209 | .00025 | -.00120 | -.04617 | -.00093 |
| #2 | .00489 | -.00298 | .00002 | .01323 | .00008 | .00022 | .00127 | -.00022 | -.00041 | -.00343 | -.00148 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00295** | F **.00550** |
| Stddev | .00049 | .00177 |
| %RSD | 16.659 | 32.141 |
| #1 | .00261 | .00674 |
| #2 | .00330 | .00425 |
| Check ? | Chk Pass | Chk Fail |
| High Limit | | .00476 |
| Low Limit | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5887.9** | **74592.** | **4317.4** |
| Stddev | 4.2 | 79. | 24.7 |
| %RSD | .07071 | .10636 | .57232 |
| #1 | 5885.0 | 74648. | 4299.9 |
| #2 | 5890.9 | 74536. | 4334.8 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 3:46:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01180** | **.10234** | W **.01871** | **.11300** | **.01021** | **.00084** | **.10614** | **.18884** | **.00515** | **.01090** | **.01055** |
| Stddev | .00075 | .00045 | .00084 | .00059 | .00012 | .00010 | .00029 | .00424 | .00008 | .00006 | .00018 |
| %RSD | 6.3928 | .44075 | 4.4684 | .51933 | 1.1426 | 11.981 | .27154 | 2.2439 | 1.5375 | .50993 | 1.6919 |
| #1 | .01127 | .10266 | .01930 | .11258 | .01012 | .00077 | .10635 | .19184 | .00521 | .01086 | .01068 |
| #2 | .01233 | .10202 | .01812 | .11341 | .01029 | .00092 | .10594 | .18584 | .00510 | .01094 | .01043 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01390** | **.08332** | **3.4216** | **.00876** | **.20589** | **.01040** | **.01914** | **1.0608** | **.04157** | **3.0343** | **.00853** |
| Stddev | .00041 | .00089 | .0149 | .00053 | .00084 | .00007 | .00011 | .0120 | .00003 | .0109 | .00046 |
| %RSD | 2.9209 | 1.0637 | .43493 | 6.0871 | .40852 | .70373 | .59650 | 1.1299 | .07013 | .35913 | 5.4524 |
| #1 | .01362 | .08395 | 3.4322 | .00838 | .20530 | .01035 | .01922 | 1.0693 | .04155 | 3.0266 | .00820 |
| #2 | .01419 | .08269 | 3.4111 | .00914 | .20649 | .01045 | .01906 | 1.0523 | .04159 | 3.0420 | .00885 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **.00832** | **.01636** | **.45245** | **.09898** | **.01077** | **.01740** | **.00975** | **.01565** | F **.01959** | **.00842** |
| Stddev | .00324 | .00130 | .00084 | .00409 | .00081 | .00010 | .00174 | .00023 | .00149 | .01703 | .00013 |
| %RSD | 464.74 | 15.596 | 5.1082 | .90331 | .82023 | .96745 | 9.9993 | 2.3423 | 9.5257 | 86.922 | 1.5902 |
| #1 | .00159 | .00740 | .01695 | .44956 | .09841 | .01085 | .01863 | .00959 | .01670 | .00755 | .00852 |
| #2 | -.00299 | .00924 | .01576 | .45534 | .09956 | .01070 | .01617 | .00991 | .01459 | .03163 | .00833 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02266** | **.01739** |
| Stddev | .00015 | .00136 |
| %RSD | .65123 | 7.8378 |
| #1 | .02276 | .01835 |
| #2 | .02255 | .01642 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5902.8** | **74801.** | **4325.7** |
| Stddev | 5.1 | 257. | 30.6 |
| %RSD | .08585 | .34384 | .70852 |
| #1 | 5899.3 | 74619. | 4304.0 |
| #2 | 5906.4 | 74983. | 4347.4 |

Sample Name: 280-42191-A-32-A  Acquired: 5/17/2013 3:48:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.00056** | **.00314** | **.28996** | **.04744** | **-.00010** | **-.00395** | **258.53** | **.00018** |
| Stddev | .00064 | .00043 | .00133 | .00072 | .00002 | .00006 | .00352 | 1.75 | .00007 |
| %RSD | 65.184 | 76.177 | 42.261 | .24984 | .03822 | 61.172 | 89.147 | .67678 | 38.168 |
| #1 | .00053 | .00026 | .00408 | .29047 | .04743 | -.00006 | -.00644 | 259.76 | .00023 |
| #2 | .00144 | .00086 | .00220 | .28945 | .04745 | -.00015 | -.00146 | 257.29 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01089** | **.00057** | **-.00004** | **.35489** | **27.893** | **.03874** | **63.252** | **.41776** | **.00161** |
| Stddev | .00016 | .00018 | .00004 | .00374 | .195 | .00047 | .052 | .00070 | .00015 |
| %RSD | 1.4392 | 31.497 | 105.56 | 1.0544 | .69775 | 1.2206 | .08150 | .16763 | 9.0603 |
| #1 | .01100 | .00044 | -.00001 | .35754 | 28.030 | .03841 | 63.215 | .41726 | .00150 |
| #2 | .01078 | .00069 | -.00007 | .35224 | 27.755 | .03908 | 63.288 | .41825 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **92.954** | **.00674** | **.21777** | **.00140** | **145.50** | **.00089** | **.00055** | **4.3126** | **-.00011** |
| Stddev | .401 | .00001 | .00073 | .00134 | .16 | .00092 | .00394 | .0216 | .00064 |
| %RSD | .43095 | .14428 | .33386 | 95.819 | .10885 | 103.23 | 717.04 | .50206 | 560.16 |
| #1 | 93.237 | .00675 | .21828 | .00045 | 145.38 | .00155 | .00333 | 4.3279 | -.00057 |
| #2 | 92.671 | .00674 | .21726 | .00234 | 145.61 | .00024 | -.00224 | 4.2972 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.69896** | **.00258** | **.00059** | **.00003** | **-.03094** | **-.00027** | **.01025** | **.00306** |
| Stddev | .00334 | .00353 | .00019 | .00029 | .06462 | .00010 | .00017 | .00120 |
| %RSD | .47783 | 136.83 | 32.593 | 910.54 | 208.88 | 36.636 | 1.6800 | 39.342 |
| #1 | .70132 | .00508 | .00045 | .00024 | -.07663 | -.00034 | .01013 | .00221 |
| #2 | .69659 | .00008 | .00072 | -.00018 | .01476 | -.00020 | .01037 | .00391 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5524.3** | **71614.** | **4205.0** |
| Stddev | 7.4 | 75. | 43.7 |
| %RSD | .13446 | .10536 | 1.0402 |
| #1 | 5529.6 | 71561. | 4174.1 |
| #2 | 5519.1 | 71667. | 4235.9 |

Sample Name: 280-42191-A-33-A  Acquired: 5/17/2013 3:51:13  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00173** | **.00143** | **.00041** | **.28218** | **.04590** | **-.00003** | **-.00355** | **253.59** | **.00039** |
| Stddev | .00003 | .00033 | .00144 | .00101 | .00013 | .00001 | .00151 | 1.18 | .00007 |
| %RSD | 1.9665 | 23.025 | 352.19 | .35667 | .28186 | 25.619 | 42.374 | .46362 | 17.041 |
| #1 | .00175 | .00166 | -.00061 | .28146 | .04581 | -.00004 | -.00462 | 252.76 | .00044 |
| #2 | .00171 | .00120 | .00143 | .28289 | .04599 | -.00003 | -.00249 | 254.42 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01053** | **.00036** | **-.00061** | **.33057** | **27.463** | **.03817** | **61.562** | **.40724** | **.00153** |
| Stddev | .00003 | .00014 | .00014 | .00127 | .030 | .00345 | .196 | .00069 | .00019 |
| %RSD | .29790 | 37.473 | 23.344 | .38269 | .10832 | 9.0387 | .31849 | .17001 | 12.306 |
| #1 | .01051 | .00046 | -.00051 | .32968 | 27.442 | .03573 | 61.701 | .40773 | .00140 |
| #2 | .01055 | .00027 | -.00071 | .33146 | 27.484 | .04061 | 61.424 | .40675 | .00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **90.121** | **.00634** | **.19045** | **.00145** | **142.34** | **.00004** | **-.00075** | **4.1864** | **-.00012** |
| Stddev | .535 | .00007 | .00201 | .00057 | .24 | .00006 | .00193 | .0162 | .00027 |
| %RSD | .59354 | 1.0402 | 1.0541 | 39.440 | .16768 | 147.46 | 255.47 | .38674 | 226.76 |
| #1 | 89.743 | .00629 | .19187 | .00105 | 142.17 | .00008 | -.00212 | 4.1750 | -.00031 |
| #2 | 90.499 | .00638 | .18903 | .00186 | 142.51 | -.00000 | .00061 | 4.1979 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68683** | **.00028** | **.00142** | **.00063** | **-.03361** | **-.00093** | **.00967** | **.00397** |
| Stddev | .00268 | .00048 | .00008 | .00086 | .03936 | .00038 | .00025 | .00012 |
| %RSD | .39036 | 174.10 | 5.9474 | 136.60 | 117.10 | 41.421 | 2.5631 | 3.0072 |
| #1 | .68493 | .00062 | .00136 | .00002 | -.06145 | -.00066 | .00985 | .00389 |
| #2 | .68872 | -.00006 | .00148 | .00124 | -.00578 | -.00120 | .00950 | .00406 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5560.5** | **72096.** | **4232.1** |
| Stddev | 1.7 | 375. | 17.9 |
| %RSD | .03026 | .51986 | .42283 |
| #1 | 5559.3 | 71831. | 4244.8 |
| #2 | 5561.7 | 72361. | 4219.5 |

Sample Name: 280-42191-A-34-A  Acquired: 5/17/2013 3:53:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **.06458** | **.00522** | **39.884** | **.04927** | **-.00004** | **-.00140** | **99.154** | **-.00009** |
| Stddev | .00011 | .00046 | .00006 | .019 | .00018 | .00001 | .00021 | .168 | .00003 |
| %RSD | 8.1299 | .70461 | 1.2329 | .04738 | .36292 | 21.303 | 15.266 | .16965 | 29.686 |
| #1 | .00139 | .06490 | .00518 | 39.897 | .04914 | -.00005 | -.00155 | 99.035 | -.00010 |
| #2 | .00124 | .06426 | .00527 | 39.870 | .04939 | -.00003 | -.00125 | 99.273 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01779** | **.00038** | **.00015** | **.94083** | **4.6760** | **.03709** | **33.474** | **.16835** | **.14649** |
| Stddev | .00032 | .00015 | .00025 | .00346 | .0062 | .00185 | .008 | .00011 | .00010 |
| %RSD | 1.8114 | 40.970 | 174.55 | .36738 | .13300 | 4.9790 | .02393 | .06695 | .06633 |
| #1 | .01802 | .00048 | -.00003 | .94328 | 4.6804 | .03578 | 33.468 | .16827 | .14642 |
| #2 | .01756 | .00027 | .00033 | .93839 | 4.6716 | .03839 | 33.479 | .16843 | .14655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **145.74** | **.00415** | **.22449** | **.00291** | **53.305** | **-.00267** | **-.00052** | **6.8614** | **.00085** |
| Stddev | .30 | .00020 | .00076 | .00048 | .036 | .00037 | .00016 | .0265 | .00016 |
| %RSD | .20865 | 4.8279 | .34008 | 16.384 | .06729 | 13.819 | 30.333 | .38630 | 18.961 |
| #1 | 145.52 | .00429 | .22503 | .00324 | 53.280 | -.00241 | -.00063 | 6.8427 | .00096 |
| #2 | 145.95 | .00401 | .22395 | .00257 | 53.330 | -.00293 | -.00041 | 6.8802 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74868** | **.00186** | **.00030** | **.00011** | W **-.06139** | **-.00091** | **.01003** | **.00520** |
| Stddev | .00097 | .00091 | .00051 | .00027 | .01507 | .00079 | .00021 | .00247 |
| %RSD | .13003 | 48.655 | 173.00 | 244.26 | 24.547 | 87.297 | 2.1430 | 47.586 |
| #1 | .74799 | .00250 | -.00007 | .00030 | -.07205 | -.00035 | .00988 | .00694 |
| #2 | .74936 | .00122 | .00066 | -.00008 | -.05074 | -.00147 | .01018 | .00345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5713.5** | **73809.** | **4285.9** |
| Stddev | 5.5 | 300. | 15.3 |
| %RSD | .09684 | .40710 | .35643 |
| #1 | 5717.5 | 73597. | 4296.7 |
| #2 | 5709.6 | 74022. | 4275.1 |

Sample Name: 280-42191-A-35-A  Acquired: 5/17/2013 3:55:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00163** | **.03763** | **.00940** | **1.9988** | **.15653** | **-.00001** | **-.00144** | **65.023** | **.00014** |
| Stddev | .00078 | .00036 | .00054 | .0108 | .00042 | .00011 | .00229 | .533 | .00014 |
| %RSD | 47.694 | .95275 | 5.6952 | .54099 | .26913 | 833.68 | 158.22 | .81951 | 94.819 |
| #1 | .00218 | .03738 | .00902 | 2.0065 | .15623 | -.00009 | -.00306 | 64.647 | .00005 |
| #2 | .00108 | .03789 | .00978 | 1.9912 | .15683 | .00006 | .00017 | 65.400 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00250** | **.00043** | **.03222** | **.18973** | **2.7295** | **.00220** | **20.853** | **.48147** | **.00719** |
| Stddev | .00004 | .00026 | .00050 | .00241 | .0499 | .00098 | .018 | .00041 | .00007 |
| %RSD | 1.6079 | 60.081 | 1.5417 | 1.2702 | 1.8291 | 44.509 | .08815 | .08619 | .96139 |
| #1 | .00247 | .00061 | .03257 | .19143 | 2.7648 | .00289 | 20.866 | .48117 | .00714 |
| #2 | .00253 | .00025 | .03186 | .18802 | 2.6942 | .00151 | 20.840 | .48176 | .00724 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.3911** | **10.756** | **.00136** | **.22190** | **.00253** | **17.362** | **-.00169** | **.00240** | **3.3652** |
| Stddev | .0856 | .105 | .00009 | .00249 | .00088 | .016 | .00166 | .00185 | .0267 |
| %RSD | .91103 | .97589 | 6.4045 | 1.1205 | 34.949 | .09037 | 98.302 | 77.292 | .79294 |
| #1 | 9.3306 | 10.830 | .00130 | .22014 | .00316 | 17.374 | -.00052 | .00371 | 3.3463 |
| #2 | 9.4516 | 10.682 | .00142 | .22366 | .00191 | 17.351 | -.00286 | .00109 | 3.3841 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.14100** | **-.00089** | **.00076** | **-.00050** | **-.03308** | **-.00022** | **.03571** | **.00411** |
| Stddev | .00036 | .00099 | .00150 | .00004 | .00081 | .01394 | .00044 | .00019 | .00208 |
| %RSD | 75.243 | .69914 | 168.47 | 4.6676 | 161.74 | 42.134 | 200.65 | .51903 | 50.648 |
| #1 | .00073 | .14031 | .00017 | .00073 | -.00107 | -.02323 | -.00053 | .03558 | .00558 |
| #2 | .00022 | .14170 | -.00195 | .00078 | .00007 | -.04294 | .00009 | .03584 | .00264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5831.1** | **74815.** | **4402.5** |
| Stddev | 2.0 | 79. | 28.6 |
| %RSD | .03460 | .10531 | .64985 |
| #1 | 5829.7 | 74871. | 4422.7 |
| #2 | 5832.5 | 74760. | 4382.2 |

Sample Name: 280-42191-A-36-A Acquired: 5/17/2013 3:58:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **.01154** | **.00435** | **.12265** | **.03185** | **.00002** | **-.00042** | **96.279** | **.00020** |
| Stddev | .00014 | .00029 | .00152 | .00304 | .00070 | .00003 | .00111 | .809 | .00004 |
| %RSD | 9.4795 | 2.4830 | 34.887 | 2.4761 | 2.1874 | 126.80 | 262.14 | .83997 | 21.277 |
| #1 | .00133 | .01134 | .00328 | .12479 | .03234 | .00000 | .00036 | 96.851 | .00017 |
| #2 | .00152 | .01174 | .00543 | .12050 | .03135 | .00004 | -.00121 | 95.707 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **.00023** | **.00150** | **.03242** | **14.106** | **.02436** | **50.862** | **.02439** | **.02040** |
| Stddev | .00008 | .00006 | .00019 | .00167 | .056 | .00167 | .051 | .00000 | .00001 |
| %RSD | 11.757 | 25.092 | 12.838 | 5.1522 | .39599 | 6.8510 | .10045 | .01860 | .02794 |
| #1 | .00061 | .00019 | .00164 | .03360 | 14.146 | .02554 | 50.826 | .02439 | .02040 |
| #2 | .00072 | .00027 | .00137 | .03124 | 14.067 | .02318 | 50.898 | .02439 | .02041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.854** | **.00240** | **.22494** | **.00335** | **132.90** | **.00004** | **.00214** | **3.5819** | **.00053** |
| Stddev | .048 | .00001 | .00285 | .00021 | .21 | .00143 | .00009 | .0278 | .00005 |
| %RSD | .21170 | .23625 | 1.2676 | 6.2910 | .16068 | 3304.9 | 4.2288 | .77585 | 8.6742 |
| #1 | 22.889 | .00240 | .22292 | .00350 | 132.75 | .00106 | .00221 | 3.6015 | .00050 |
| #2 | 22.820 | .00241 | .22695 | .00320 | 133.05 | -.00097 | .00208 | 3.5622 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34791** | **.00096** | **.00038** | **-.00029** | **-.02283** | **-.00061** | **.27217** | **.00206** |
| Stddev | .00272 | .00246 | .00052 | .00018 | .01215 | .00048 | .00064 | .00234 |
| %RSD | .78263 | 257.78 | 138.33 | 62.566 | 53.229 | 78.694 | .23450 | 113.47 |
| #1 | .34983 | -.00079 | .00001 | -.00016 | -.01424 | -.00027 | .27172 | .00041 |
| #2 | .34598 | .00270 | .00075 | -.00042 | -.03142 | -.00094 | .27262 | .00372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5764.3** | **74164.** | **4363.0** |
| Stddev | 1.3 | 38. | 41.3 |
| %RSD | .02280 | .05087 | .94643 |
| #1 | 5765.3 | 74190. | 4333.8 |
| #2 | 5763.4 | 74137. | 4392.2 |

Sample Name: 280-42191-A-37-A  Acquired: 5/17/2013 4:00:49  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00129** | **.01203** | **.03566** | **1.8210** | **.03556** | **-.00029** | **-.00405** | **335.49** | **.00037** |
| Stddev | .00030 | .00038 | .00254 | .0008 | .00042 | .00001 | .00182 | .31 | .00003 |
| %RSD | 22.949 | 3.1654 | 7.1281 | .04194 | 1.1721 | 5.0120 | 44.970 | .09262 | 8.0315 |
| #1 | .00108 | .01230 | .03387 | 1.8215 | .03527 | -.00030 | -.00276 | 335.27 | .00035 |
| #2 | .00150 | .01176 | .03746 | 1.8204 | .03586 | -.00028 | -.00534 | 335.71 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.00068** | **.00082** | **2.7744** | **24.552** | **.06483** | **91.270** | **.09435** | **.03032** |
| Stddev | .00006 | .00013 | .00027 | .0004 | .032 | .00052 | .033 | .00007 | .00030 |
| %RSD | 6.9866 | 19.037 | 32.675 | .01537 | .12904 | .80235 | .03583 | .07077 | .99124 |
| #1 | .00080 | .00059 | .00101 | 2.7741 | 24.575 | .06520 | 91.293 | .09431 | .03011 |
| #2 | .00088 | .00077 | .00063 | 2.7747 | 24.530 | .06446 | 91.247 | .09440 | .03053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **69.861** | **.03356** | **.21402** | **.00258** | **132.42** | **.00083** | **.00135** | **4.6146** | **-.00046** |
| Stddev | .244 | .00005 | .00377 | .00026 | .14 | .00024 | .00031 | .0114 | .00002 |
| %RSD | .34873 | .16099 | 1.7621 | 10.026 | .10714 | 28.358 | 22.628 | .24619 | 5.0189 |
| #1 | 69.689 | .03360 | .21668 | .00240 | 132.52 | .00100 | .00157 | 4.6066 | -.00047 |
| #2 | 70.033 | .03353 | .21135 | .00277 | 132.32 | .00067 | .00114 | 4.6227 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74244** | **.00316** | **.00162** | **-.00073** | **-.03396** | **-.00021** | **.24564** | **.00298** |
| Stddev | .00054 | .00009 | .00005 | .00052 | .04065 | .00053 | .00196 | .00010 |
| %RSD | .07299 | 2.7398 | 3.1237 | 71.158 | 119.70 | 250.90 | .79650 | 3.2783 |
| #1 | .74206 | .00310 | .00159 | -.00110 | -.00522 | -.00059 | .24425 | .00305 |
| #2 | .74282 | .00322 | .00166 | -.00036 | -.06271 | .00017 | .24702 | .00291 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5480.5** | **71145.** | **4206.2** |
| Stddev | .3 | 33. | 7.7 |
| %RSD | .00607 | .04676 | .18282 |
| #1 | 5480.3 | 71121. | 4211.6 |
| #2 | 5480.8 | 71168. | 4200.7 |

Sample Name: 280-42191-A-38-A Acquired: 5/17/2013 4:03:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00106** | **.02303** | **.03971** | **1.8271** | **.03662** | **-.00019** | **-.00322** | **335.00** | **.00027** |
| Stddev | .00112 | .00034 | .00155 | .0011 | .00011 | .00003 | .00203 | 2.54 | .00014 |
| %RSD | 105.65 | 1.4779 | 3.8937 | .06193 | .28939 | 15.253 | 62.881 | .75965 | 50.591 |
| #1 | .00027 | .02327 | .03862 | 1.8263 | .03670 | -.00021 | -.00466 | 336.80 | .00018 |
| #2 | .00186 | .02279 | .04081 | 1.8279 | .03655 | -.00017 | -.00179 | 333.20 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **.00060** | **.00051** | **2.8911** | **24.540** | **.06395** | **91.752** | **.09509** | **.03093** |
| Stddev | .00035 | .00003 | .00049 | .0117 | .240 | .00022 | .018 | .00009 | .00045 |
| %RSD | 35.047 | 5.7215 | 94.974 | .40490 | .97896 | .33742 | .02004 | .09409 | 1.4602 |
| #1 | .00074 | .00058 | .00017 | 2.8994 | 24.710 | .06410 | 91.765 | .09516 | .03061 |
| #2 | .00123 | .00062 | .00086 | 2.8828 | 24.370 | .06380 | 91.739 | .09503 | .03125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **70.090** | **.03410** | **.21773** | **.00053** | **132.90** | **-.00265** | **.00093** | **4.6968** | **.00002** |
| Stddev | .415 | .00012 | .00209 | .00005 | .09 | .00220 | .00564 | .0017 | .00061 |
| %RSD | .59252 | .34382 | .95845 | 8.5580 | .06787 | 82.989 | 606.41 | .03682 | 3399.6 |
| #1 | 70.383 | .03402 | .21625 | .00050 | 132.96 | -.00109 | -.00306 | 4.6980 | .00045 |
| #2 | 69.796 | .03419 | .21920 | .00056 | 132.84 | -.00420 | .00492 | 4.6956 | -.00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74241** | **.00093** | **.00235** | **.00092** | **-.04440** | **-.00044** | **.24865** | **.00352** |
| Stddev | .00616 | .00035 | .00019 | .00191 | .00492 | .00041 | .00111 | .00182 |
| %RSD | .82943 | 37.689 | 7.9987 | 207.66 | 11.081 | 93.160 | .44473 | 51.819 |
| #1 | .74677 | .00068 | .00221 | -.00043 | -.04092 | -.00015 | .24787 | .00223 |
| #2 | .73806 | .00117 | .00248 | .00226 | -.04788 | -.00073 | .24944 | .00481 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5445.4** | **70798.** | **4168.4** |
| Stddev | 7.9 | 11. | 29.2 |
| %RSD | .14420 | .01556 | .69944 |
| #1 | 5439.9 | 70790. | 4147.8 |
| #2 | 5451.0 | 70806. | 4189.0 |

Sample Name: 280-42191-A-39-A Acquired: 5/17/2013 4:05:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **.08274** | **.00309** | **.63979** | **.03368** | **.00005** | **-.00184** | **72.652** | **.00049** |
| Stddev | .00009 | .00505 | .00149 | .03201 | .00045 | .00005 | .00139 | .643 | .00018 |
| %RSD | 7.6463 | 6.1015 | 48.327 | 5.0037 | 1.3255 | 92.952 | 75.579 | .88566 | 36.072 |
| #1 | .00111 | .07917 | .00203 | .61716 | .03336 | .00009 | -.00086 | 72.197 | .00037 |
| #2 | .00123 | .08631 | .00414 | .66243 | .03399 | .00002 | -.00283 | 73.107 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.00094** | **.15838** | **.26048** | **1.9883** | **.00252** | **17.129** | **.02298** | **.00368** |
| Stddev | .00008 | .00007 | .00068 | .00100 | .0221 | .00195 | .054 | .00003 | .00049 |
| %RSD | 9.2123 | 7.0175 | .43185 | .38343 | 1.1130 | 77.483 | .31356 | .14005 | 13.290 |
| #1 | .00081 | .00099 | .15790 | .26119 | 2.0039 | .00390 | 17.091 | .02296 | .00333 |
| #2 | .00092 | .00089 | .15887 | .25978 | 1.9726 | .00114 | 17.167 | .02300 | .00402 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4549** | **.00826** | **.23166** | **.00232** | **8.8779** | **-.00134** | **-.00116** | **4.5856** | **.00021** |
| Stddev | .0059 | .00076 | .01239 | .00006 | .4419 | .00013 | .00072 | .0276 | .00030 |
| %RSD | .24066 | 9.2260 | 5.3505 | 2.7164 | 4.9771 | 10.069 | 62.404 | .60122 | 148.16 |
| #1 | 2.4591 | .00772 | .22290 | .00227 | 8.5655 | -.00124 | -.00065 | 4.5661 | .00042 |
| #2 | 2.4507 | .00880 | .24043 | .00236 | 9.1904 | -.00144 | -.00167 | 4.6051 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17701** | **.00050** | **.00160** | **-.00106** | **-.01478** | **-.00079** | **1.6906** | **.00405** |
| Stddev | .00178 | .00329 | .00003 | .00072 | .04400 | .00008 | .0141 | .00015 |
| %RSD | 1.0046 | 658.09 | 1.7361 | 67.533 | 297.75 | 10.046 | .83696 | 3.7920 |
| #1 | .17575 | -.00182 | .00162 | -.00157 | .01634 | -.00074 | 1.6806 | .00395 |
| #2 | .17826 | .00282 | .00158 | -.00055 | -.04589 | -.00085 | 1.7006 | .00416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5524.9** | **72770.** | **4269.3** |
| Stddev | 268.8 | 212. | 28.9 |
| %RSD | 4.8644 | .29113 | .67677 |
| #1 | 5715.0 | 72919. | 4289.7 |
| #2 | 5334.9 | 72620. | 4248.9 |

Sample Name: 280-42191-A-40-A Acquired: 5/17/2013 4:07:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174342 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **.07878** | **.00282** | **.61949** | **.03364** | **-.00008** | **-.00280** | **73.418** | **.00055** |
| Stddev | .00022 | .00049 | .00228 | .00029 | .00006 | .00006 | .00160 | .230 | .00009 |
| %RSD | 26.127 | .62177 | 80.806 | .04715 | .18108 | 72.907 | 57.022 | .31391 | 16.780 |
| #1 | .00068 | .07843 | .00121 | .61970 | .03368 | -.00004 | -.00167 | 73.255 | .00048 |
| #2 | .00099 | .07912 | .00444 | .61928 | .03360 | -.00012 | -.00393 | 73.581 | .00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **.00072** | **.15994** | **.19341** | **1.9550** | **.00356** | **17.324** | **.02299** | **.00323** |
| Stddev | .00000 | .00001 | .00004 | .00139 | .0014 | .00194 | .013 | .00004 | .00021 |
| %RSD | .54784 | 1.4222 | .02697 | .72072 | .07416 | 54.435 | .07444 | .18362 | 6.4755 |
| #1 | .00091 | .00073 | .15991 | .19242 | 1.9540 | .00492 | 17.334 | .02302 | .00309 |
| #2 | .00092 | .00071 | .15997 | .19439 | 1.9560 | .00219 | 17.315 | .02296 | .00338 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4288** | **.00678** | **.22080** | **.00194** | **8.6580** | **-.00063** | **-.00111** | **4.6251** | **.00002** |
| Stddev | .0122 | .00033 | .00139 | .00034 | .0298 | .00018 | .00206 | .0141 | .00009 |
| %RSD | .50285 | 4.8717 | .63147 | 17.331 | .34450 | 29.257 | 185.68 | .30554 | 423.95 |
| #1 | 2.4374 | .00655 | .22178 | .00218 | 8.6370 | -.00076 | -.00257 | 4.6351 | -.00004 |
| #2 | 2.4201 | .00702 | .21981 | .00170 | 8.6791 | -.00050 | .00035 | 4.6151 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17823** | **.00335** | **.00141** | **-.00119** | W **-.07414** | **-.00061** | **1.7136** | **.00138** |
| Stddev | .00076 | .00032 | .00029 | .00055 | .02485 | .00058 | .0032 | .00035 |
| %RSD | .42422 | 9.4203 | 20.950 | 46.108 | 33.520 | 94.225 | .18882 | 25.151 |
| #1 | .17769 | .00312 | .00120 | -.00080 | -.09172 | -.00020 | 1.7159 | .00113 |
| #2 | .17876 | .00357 | .00161 | -.00157 | -.05657 | -.00102 | 1.7113 | .00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5716.7** | **72528.** | **4248.9** |
| Stddev | 4.5 | 31. | 4.1 |
| %RSD | .07887 | .04272 | .09626 |
| #1 | 5719.9 | 72506. | 4251.8 |
| #2 | 5713.5 | 72550. | 4246.0 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 4:10:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00591** | **47.615** | k **-.00116** | **.01694** | k **-.00046** | k **-.00014** | k **.98804** | k **.00033** | k **-.00081** | k **.00212** | k **.00040** | k **.00360** |
| Stddev | .00739 | .351 | .00188 | .00012 | .00009 | .00001 | .01804 | .00829 | .00010 | .00020 | .00018 | .00755 |
| %RSD | 124.98 | .73709 | 161.83 | .68850 | 19.677 | 8.9098 | 1.8258 | 2499.0 | 11.829 | 9.2403 | 45.705 | 209.77 |
| #1 | .00069 | 47.863 | -.00249 | .01702 | -.00039 | -.00013 | 1.0008 | .00620 | -.00087 | .00198 | .00027 | -.00174 |
| #2 | k .01114 | 47.366 | k .00017 | .01686 | k -.00052 | k -.00015 | k .97529 | k -.00553 | k -.00074 | k .00226 | k .00054 | k .00894 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **45.031** | **.06611** | k **-.00365** | k **-.09449** | **-.00014** | **-.00227** | **272.63** | **.00130** | **.00726** | k **.00382** | **5.1753** | k **-.01387** |
| Stddev | .145 | .03239 | .00208 | .14759 | .00007 | .00011 | 3.09 | .00035 | .00013 | .00509 | .0056 | .01676 |
| %RSD | .32209 | 49.001 | 56.943 | 156.20 | 49.870 | 4.6359 | 1.1351 | 26.885 | 1.7856 | 133.46 | .10836 | 120.86 |
| #1 | 45.133 | .08901 | -.00218 | .00987 | -.00009 | -.00220 | 274.82 | .00105 | .00735 | .00021 | 5.1713 | -.00202 |
| #2 | k 44.928 | .04320 | k -.00512 | k -.19885 | -.00019 | -.00235 | 270.45 | .00155 | .00717 | k .00742 | 5.1792 | k -.02572 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00270** | k **.00449** | k **.00034** | **.00055** | k **5.2478** | k **.00935** | k **-.00346** | k **10.021** | k **-.00087** | k **.00232** | k **.07877** |
| Stddev | .01411 | .02767 | .00061 | .00001 | .1861 | .00944 | .00340 | .008 | .00243 | .00037 | .18220 |
| %RSD | 522.93 | 616.80 | 178.17 | 2.2104 | 3.5464 | 100.91 | 98.192 | .07642 | 277.17 | 15.905 | 231.31 |
| #1 | .00728 | -.01508 | -.00009 | .00055 | 5.1162 | .00268 | -.00106 | 10.026 | -.00259 | .00259 | -.05007 |
| #2 | k -.01268 | k .02405 | k .00077 | .00054 | k 5.3794 | k .01602 | k -.00587 | k 10.015 | k .00084 | k .00206 | k .20760 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5705.8** | **72178.** | **4207.1** |
| Stddev | 1.0 | 46. | 45.7 |
| %RSD | .01764 | .06396 | 1.0864 |
| #1 | 5705.1 | 72146. | 4174.7 |
| #2 | 5706.5 | 72211. | 4239.4 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 4:12:45 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51539** | **.50248** | **1.0097** | **.53884** | **.52317** | **.47034** | **-.00020** | **4.8133** | **.50872** | **.51819** | **.50010** | **.49489** |
| Stddev | .00047 | .00023 | .0002 | .00025 | .00142 | .00197 | .00027 | .0053 | .00037 | .00025 | .00096 | .00232 |
| %RSD | .09057 | .04521 | .02325 | .04686 | .27206 | .41892 | 132.83 | .10902 | .07289 | .04802 | .19121 | .46953 |
| #1 | .51572 | .50265 | 1.0099 | .53902 | .52417 | .47173 | -.00040 | 4.8170 | .50846 | .51801 | .49942 | .49325 |
| #2 | .51506 | .50232 | 1.0096 | .53866 | .52216 | .46894 | -.00001 | 4.8096 | .50898 | .51836 | .50077 | .49653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1994** | **54.409** | **1.0913** | **19.709** | **.50916** | **.49211** | **5.1975** | **.50801** | **1.0311** | **1.0200** | **-.00062** | **1.0231** |
| Stddev | .0055 | .177 | .0033 | .003 | .00103 | .00062 | .0249 | .00022 | .0013 | .0021 | .00252 | .0002 |
| %RSD | .25087 | .32602 | .30163 | .01449 | .20296 | .12505 | .47915 | .04423 | .12690 | .20481 | 407.02 | .01897 |
| #1 | 2.1955 | 54.534 | 1.0936 | 19.711 | .50843 | .49167 | 5.2151 | .50785 | 1.0302 | 1.0185 | .00116 | 1.0232 |
| #2 | 2.2033 | 54.283 | 1.0890 | 19.707 | .50989 | .49254 | 5.1799 | .50817 | 1.0320 | 1.0214 | -.00240 | 1.0229 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0456** | **4.5062** | **.97715** | **.52915** | **.00181** | **.50692** | **.98103** | **-.01868** | **.49528** | **.49531** | **.48584** |
| Stddev | .0006 | .0009 | .00379 | .00113 | .00012 | .00122 | .00221 | .00191 | .00108 | .00103 | .00144 |
| %RSD | .05262 | .02039 | .38788 | .21270 | 6.6841 | .24023 | .22543 | 10.215 | .21758 | .20812 | .29615 |
| #1 | 1.0452 | 4.5055 | .97447 | .52995 | .00189 | .50606 | .97947 | -.01733 | .49452 | .49459 | .48686 |
| #2 | 1.0460 | 4.5068 | .97983 | .52835 | .00172 | .50778 | .98259 | -.02003 | .49605 | .49604 | .48482 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5771.0** | **72792.** | **4218.3** |
| Stddev | 5.2 | 153. | 26.6 |
| %RSD | .08998 | .20991 | .63164 |
| #1 | 5774.7 | 72684. | 4199.5 |
| #2 | 5767.3 | 72900. | 4237.2 |

Sample Name: CCB Acquired: 5/17/2013 4:14:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00147** | **-.00047** | **.00176** | F **.01261** | W **-.00065** | **-.00001** | **-.00083** | **.00013** | **-.00004** | **.00012** | **.00032** |
| Stddev | .00071 | .00026 | .00045 | .00007 | .00011 | .00004 | .00010 | .00662 | .00004 | .00020 | .00002 |
| %RSD | 48.285 | 55.570 | 25.336 | .54178 | 16.327 | 377.23 | 12.557 | 5040.4 | 100.32 | 172.46 | 6.0475 |
| #1 | .00097 | -.00029 | .00144 | .01256 | -.00072 | -.00004 | -.00090 | .00481 | -.00006 | .00026 | .00030 |
| #2 | .00197 | -.00066 | .00207 | .01265 | -.00057 | .00002 | -.00075 | -.00455 | -.00001 | -.00003 | .00033 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00112** | **-.00282** | **.06664** | **-.00231** | **.00357** | **-.00010** | **-.00038** | **-.02673** | **.00030** | **.00088** | **.00110** |
| Stddev | .00012 | .00405 | .05069 | .00259 | .00229 | .00001 | .00022 | .02052 | .00004 | .00012 | .00024 |
| %RSD | 11.019 | 143.48 | 76.070 | 112.26 | 64.132 | 12.484 | 56.925 | 76.757 | 12.779 | 13.386 | 22.104 |
| #1 | -.00120 | -.00568 | .03079 | -.00414 | .00195 | -.00011 | -.00053 | -.01222 | .00033 | .00080 | .00093 |
| #2 | -.00103 | .00004 | .10248 | -.00048 | .00518 | -.00009 | -.00023 | -.04125 | .00027 | .00096 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00133** | **-.00139** | **-.00017** | **-.01416** | **.00028** | **.00007** | **.00188** | **-.00034** | **-.00086** | **-.04939** | **-.00091** |
| Stddev | .00311 | .00034 | .00037 | .00756 | .00027 | .00018 | .00140 | .00003 | .00015 | .02090 | .00026 |
| %RSD | 233.87 | 24.113 | 220.52 | 53.402 | 98.562 | 245.13 | 74.122 | 8.2812 | 17.734 | 42.311 | 28.374 |
| #1 | -.00087 | -.00163 | -.00043 | -.00881 | .00008 | .00020 | .00287 | -.00032 | -.00075 | -.06416 | -.00073 |
| #2 | .00353 | -.00116 | .00009 | -.01950 | .00047 | -.00005 | .00090 | -.00036 | -.00097 | -.03461 | -.00110 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | W **.00368** |
| Stddev | .00021 | .00030 |
| %RSD | 8.2721 | 8.2621 |
| #1 | .00244 | .00347 |
| #2 | .00274 | .00390 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5808.8** | **73096.** | **4210.3** |
| Stddev | 2.9 | 227. | 9.6 |
| %RSD | .04914 | .31096 | .22799 |
| #1 | 5810.8 | 72936. | 4203.5 |
| #2 | 5806.8 | 73257. | 4217.0 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 4:17:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01239** | **.10467** | W **.01838** | **.11846** | **.01028** | **.00096** | **.10657** | **.19954** | **.00528** | **.01120** | **.01070** |
| Stddev | .00003 | .00018 | .00164 | .00060 | .00015 | .00003 | .00256 | .00203 | .00007 | .00005 | .00016 |
| %RSD | .27801 | .17073 | 8.9040 | .51008 | 1.4606 | 2.6539 | 2.4016 | 1.0186 | 1.2327 | .43380 | 1.5002 |
| #1 | .01237 | .10454 | .01722 | .11889 | .01038 | .00098 | .10476 | .19811 | .00533 | .01116 | .01058 |
| #2 | .01242 | .10479 | .01954 | .11804 | .01017 | .00094 | .10838 | .20098 | .00523 | .01123 | .01081 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | .01500 | | | | | | | | |
| Range | 20.000% | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01477** | F **.41688** | **3.4184** | **.00824** | **.21257** | F **.01318** | **.01937** | **1.0709** | **.04223** | **3.0954** | **.01004** |
| Stddev | .00024 | .00123 | .0296 | .00080 | .00375 | .00009 | .00003 | .0127 | .00007 | .0016 | .00170 |
| %RSD | 1.6371 | .29509 | .86718 | 9.6669 | 1.7629 | .66723 | .13766 | 1.1888 | .15661 | .05081 | 16.918 |
| #1 | .01460 | .41601 | 3.4394 | .00880 | .20992 | .01324 | .01935 | 1.0619 | .04227 | 3.0942 | .01125 |
| #2 | .01494 | .41775 | 3.3974 | .00767 | .21522 | .01312 | .01939 | 1.0799 | .04218 | 3.0965 | .00884 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | .01000 | | | | | |
| Range | | 30.000% | | | | 30.000% | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00091** | **.00876** | **.01612** | **.46574** | **.10034** | **.01086** | **.01795** | **.00976** | **.01564** | F **.02943** | **.00884** |
| Stddev | .00241 | .00069 | .00061 | .00541 | .00053 | .00001 | .00080 | .00020 | .00119 | .01229 | .00015 |
| %RSD | 263.48 | 7.8158 | 3.7664 | 1.1625 | .52373 | .06886 | 4.4812 | 2.0625 | 7.6186 | 41.750 | 1.6856 |
| #1 | .00079 | .00828 | .01569 | .46191 | .09996 | .01085 | .01852 | .00990 | .01479 | .03812 | .00874 |
| #2 | -.00262 | .00925 | .01655 | .46957 | .10071 | .01086 | .01738 | .00961 | .01648 | .02074 | .00895 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02449** | **.01563** |
| Stddev | .00001 | .00107 |
| %RSD | .03559 | 6.8266 |
| #1 | .02450 | .01488 |
| #2 | .02448 | .01639 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5820.4** | **73668.** | **4222.8** |
| Stddev | 11.4 | 279. | 24.2 |
| %RSD | .19544 | .37919 | .57383 |
| #1 | 5812.3 | 73865. | 4239.9 |
| #2 | 5828.4 | 73470. | 4205.6 |

Sample Name: MB 280-174341/1-A Acquired: 5/17/2013 4:19:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00114** | **.00122** | **.00344** | F **.01052** | **-.00089** | **-.00004** | **.00035** | **-.00005** | **.00000** |
| Stddev | .00008 | .00019 | .00114 | .00088 | .00059 | .00005 | .00099 | .00617 | .00003 |
| %RSD | 6.7736 | 15.735 | 33.263 | 8.4071 | 66.560 | 119.93 | 284.03 | 11570. | 1138.3 |
| #1 | .00119 | .00136 | .00425 | .01114 | -.00131 | -.00001 | -.00035 | -.00441 | -.00002 |
| #2 | .00108 | .00109 | .00263 | .00989 | -.00047 | -.00008 | .00105 | .00431 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00024** | **-.00080** | **-.00126** | **.04968** | **-.00327** | **.00302** | **-.00006** | **-.00012** |
| Stddev | .00007 | .00010 | .00034 | .00671 | .01039 | .00006 | .00230 | .00001 | .00012 |
| %RSD | 126.86 | 40.060 | 41.727 | 532.39 | 20.916 | 1.7614 | 76.078 | 17.953 | 100.09 |
| #1 | -.00010 | .00017 | -.00057 | .00348 | .05703 | -.00331 | .00139 | -.00005 | -.00021 |
| #2 | -.00001 | .00031 | -.00104 | -.00600 | .04233 | -.00323 | .00464 | -.00007 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02405** | **-.00003** | F **.15680** | **.00077** | **-.00421** | **-.00219** | **-.00014** | **.01455** | **.00086** |
| Stddev | .00942 | .00017 | .00028 | .00044 | .00252 | .00183 | .00480 | .01496 | .00017 |
| %RSD | 39.161 | 534.19 | .18026 | 56.944 | 59.914 | 83.480 | 3480.2 | 102.86 | 20.255 |
| #1 | -.01739 | .00009 | .15660 | .00107 | -.00599 | -.00090 | -.00353 | .02513 | .00099 |
| #2 | -.03071 | -.00016 | .15700 | .00046 | -.00243 | -.00349 | .00325 | .00397 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **.00125** | **-.00063** | **-.00140** | **.00001** | **-.00072** | **.00266** | **.00382** |
| Stddev | .00004 | .00014 | .00003 | .00048 | .01871 | .00007 | .00018 | .00022 |
| %RSD | 159.14 | 10.793 | 5.1384 | 34.216 | 202570. | 10.089 | 6.7861 | 5.7800 |
| #1 | .00000 | .00116 | -.00066 | -.00174 | -.01322 | -.00077 | .00279 | .00366 |
| #2 | -.00005 | .00135 | -.00061 | -.00106 | .01324 | -.00067 | .00254 | .00397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5826.5** | **73980.** | **4257.6** |
| Stddev | 3.8 | 200. | 77.0 |
| %RSD | .06478 | .27075 | 1.8090 |
| #1 | 5823.9 | 73838. | 4203.1 |
| #2 | 5829.2 | 74121. | 4312.1 |

Sample Name: LCS 280-174341/2-A Acquired: 5/17/2013 4:22:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05465** | **1.9520** | **1.0134** | **1.0775** | **2.1104** | **.04751** | **2.0648** | **47.384** | **.10397** |
| Stddev | .00003 | .0048 | .0029 | .0025 | .0087 | .00019 | .0034 | .186 | .00004 |
| %RSD | .06026 | .24697 | .28365 | .23079 | .41019 | .39373 | .16357 | .39234 | .03722 |
| #1 | .05463 | 1.9554 | 1.0155 | 1.0792 | 2.1042 | .04764 | 2.0672 | 47.252 | .10394 |
| #2 | .05468 | 1.9486 | 1.0114 | 1.0757 | 2.1165 | .04738 | 2.0624 | 47.515 | .10400 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51134** | **.20067** | **.24779** | F **.87755** | **54.816** | **1.0870** | **49.285** | **.50559** | **.98633** |
| Stddev | .00140 | .00033 | .00047 | .00687 | .244 | .0038 | .030 | .00033 | .00058 |
| %RSD | .27302 | .16266 | .18838 | .78242 | .44573 | .34666 | .06022 | .06451 | .05864 |
| #1 | .51232 | .20090 | .24812 | .88240 | 54.643 | 1.0843 | 49.306 | .50536 | .98592 |
| #2 | .51035 | .20044 | .24746 | .87269 | 54.989 | 1.0897 | 49.264 | .50582 | .98674 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **57.135** | **.49717** | **10.696** | **.50375** | **-.01221** | **.52063** | **2.1192** | F **9.1645** | **1.9469** |
| Stddev | .354 | .00037 | .025 | .00249 | .00041 | .00228 | .0013 | .0166 | .0072 |
| %RSD | .61920 | .07386 | .23834 | .49346 | 3.3530 | .43870 | .06162 | .18144 | .36701 |
| #1 | 56.885 | .49743 | 10.714 | .50551 | -.01250 | .51902 | 2.1183 | 9.1763 | 1.9418 |
| #2 | 57.385 | .49691 | 10.678 | .50199 | -.01192 | .52225 | 2.1201 | 9.1528 | 1.9519 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0617** | **1.0505** | **1.0178** | **1.9686** | **2.0920** | **.49960** | **.48979** | **.47676** |
| Stddev | .0070 | .0028 | .0007 | .0032 | .0365 | .00043 | .00044 | .00160 |
| %RSD | .65803 | .26485 | .06659 | .16502 | 1.7432 | .08556 | .09035 | .33619 |
| #1 | 1.0567 | 1.0485 | 1.0183 | 1.9663 | 2.1178 | .49929 | .48948 | .47790 |
| #2 | 1.0666 | 1.0525 | 1.0173 | 1.9709 | 2.0662 | .49990 | .49010 | .47563 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5667.8** | **71657.** | **4218.9** |
| Stddev | 11.4 | 171. | 4.6 |
| %RSD | .20120 | .23841 | .10870 |
| #1 | 5659.8 | 71536. | 4222.2 |
| #2 | 5675.9 | 71777. | 4215.7 |

Sample Name: 280-42191-A-1-A Acquired: 5/17/2013 4:24:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.00250** | **.00366** | **4.2182** | **.05603** | **-.00007** | **-.00067** | **102.44** | **.00014** |
| Stddev | .00044 | .00008 | .00056 | .0059 | .00058 | .00010 | .00250 | .31 | .00007 |
| %RSD | 34.717 | 3.1826 | 15.313 | .14059 | 1.0321 | 128.99 | 374.67 | .30439 | 54.212 |
| #1 | .00156 | .00244 | .00326 | 4.2140 | .05644 | -.00014 | .00110 | 102.66 | .00019 |
| #2 | .00095 | .00255 | .00405 | 4.2224 | .05562 | -.00001 | -.00244 | 102.22 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01282** | **.00029** | **.00246** | **.01764** | **2.9782** | **.00613** | **39.456** | **.01402** | **.00278** |
| Stddev | .00024 | .00017 | .00035 | .00100 | .0413 | .00118 | .059 | .00007 | .00061 |
| %RSD | 1.8795 | 58.034 | 14.146 | 5.6738 | 1.3849 | 19.287 | .14922 | .49139 | 22.045 |
| #1 | .01299 | .00017 | .00270 | .01835 | 2.9491 | .00529 | 39.497 | .01407 | .00321 |
| #2 | .01265 | .00041 | .00221 | .01693 | 3.0074 | .00696 | 39.414 | .01398 | .00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **43.630** | **.00359** | **.16597** | **.00099** | **23.754** | **-.00032** | **.01080** | **5.6467** | **-.00018** |
| Stddev | .339 | .00015 | .00091 | .00041 | .036 | .00159 | .00042 | .0664 | .00018 |
| %RSD | .77628 | 4.2556 | .54858 | 41.700 | .15078 | 503.74 | 3.8900 | 1.1765 | 97.134 |
| #1 | 43.870 | .00348 | .16533 | .00070 | 23.729 | -.00144 | .01110 | 5.5997 | -.00031 |
| #2 | 43.391 | .00370 | .16662 | .00128 | 23.780 | .00081 | .01050 | 5.6937 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24743** | **.00151** | **.00019** | **.00131** | **-.02108** | **-.00101** | **.01188** | **.00206** |
| Stddev | .00077 | .00189 | .00009 | .00056 | .02538 | .00028 | .00012 | .00165 |
| %RSD | .31211 | 124.98 | 46.807 | 42.503 | 120.39 | 28.158 | 1.0112 | 79.961 |
| #1 | .24798 | .00018 | .00025 | .00092 | -.00314 | -.00081 | .01180 | .00089 |
| #2 | .24688 | .00284 | .00012 | .00170 | -.03903 | -.00121 | .01197 | .00322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5659.0** | **71740.** | **4198.5** |
| Stddev | 6.4 | 85. | 12.8 |
| %RSD | .11396 | .11875 | .30567 |
| #1 | 5663.5 | 71680. | 4189.5 |
| #2 | 5654.4 | 71800. | 4207.6 |

Sample Name: 280-42191-A-2-A Acquired: 5/17/2013 4:26:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00155** | **.05700** | **-.00081** | **.30692** | **.08365** | **-.00011** | **-.00090** | **89.809** | **.00022** |
| Stddev | .00053 | .00011 | .00350 | .00183 | .00022 | .00004 | .00075 | .720 | .00009 |
| %RSD | 34.141 | .18605 | 430.89 | .59538 | .26422 | 40.469 | 83.060 | .80135 | 38.838 |
| #1 | .00193 | .05692 | -.00328 | .30822 | .08380 | -.00014 | -.00037 | 90.318 | .00028 |
| #2 | .00118 | .05707 | .00166 | .30563 | .08349 | -.00008 | -.00143 | 89.301 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00168** | **.00339** | **.05879** | **3.7095** | **-.00229** | **21.815** | **.00089** | **.00545** |
| Stddev | .00018 | .00025 | .00000 | .00384 | .0131 | .00028 | .051 | .00009 | .00034 |
| %RSD | 55.523 | 15.104 | .09632 | 6.5260 | .35320 | 12.426 | .23499 | 10.103 | 6.2198 |
| #1 | .00020 | .00150 | .00339 | .06150 | 3.7002 | -.00249 | 21.779 | .00082 | .00521 |
| #2 | .00045 | .00186 | .00339 | .05607 | 3.7187 | -.00209 | 21.852 | .00095 | .00568 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **203.91** | **.00136** | **.20163** | **.00192** | **14.499** | **-.00042** | **-.00156** | **3.5355** | **.00074** |
| Stddev | 1.65 | .00002 | .00017 | .00146 | .046 | .00012 | .00431 | .0178 | .00046 |
| %RSD | .80942 | 1.4993 | .08439 | 75.760 | .31472 | 30.080 | 275.99 | .50301 | 62.317 |
| #1 | 205.08 | .00135 | .20175 | .00089 | 14.532 | -.00050 | -.00461 | 3.5481 | .00107 |
| #2 | 202.74 | .00138 | .20151 | .00295 | 14.467 | -.00033 | .00149 | 3.5229 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29210** | **.00215** | **.00087** | **.00077** | W **-.05528** | **-.00057** | **.01072** | **.00497** |
| Stddev | .00258 | .00029 | .00018 | .00017 | .00649 | .00031 | .00043 | .00058 |
| %RSD | .88302 | 13.650 | 20.873 | 21.965 | 11.743 | 54.487 | 4.0253 | 11.574 |
| #1 | .29393 | .00235 | .00074 | .00089 | -.05987 | -.00035 | .01102 | .00538 |
| #2 | .29028 | .00194 | .00100 | .00065 | -.05069 | -.00079 | .01041 | .00456 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5635.2** | **72004.** | **4236.0** |
| Stddev | 5.0 | 86. | 41.3 |
| %RSD | .08851 | .11960 | .97451 |
| #1 | 5638.7 | 72065. | 4206.8 |
| #2 | 5631.7 | 71943. | 4265.2 |

Sample Name: 280-42191-A-3-A Acquired: 5/17/2013 4:29:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **.00442** | **-.00026** | **.32892** | **.08797** | **-.00011** | **-.00126** | **138.04** | **.00028** |
| Stddev | .00005 | .00014 | .00055 | .00089 | .00101 | .00000 | .00154 | 1.30 | .00006 |
| %RSD | 4.0981 | 3.1034 | 208.92 | .27149 | 1.1439 | 2.2464 | 121.93 | .94002 | 22.261 |
| #1 | .00127 | .00451 | -.00066 | .32956 | .08726 | -.00011 | -.00017 | 137.12 | .00023 |
| #2 | .00134 | .00432 | .00013 | .32829 | .08868 | -.00011 | -.00235 | 138.96 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03213** | **.00043** | **.00003** | **.02814** | **4.1808** | **.00767** | **47.319** | **.01314** | **.00468** |
| Stddev | .00003 | .00007 | .00029 | .00261 | .0506 | .00026 | .072 | .00007 | .00017 |
| %RSD | .09643 | 16.342 | 1027.6 | 9.2741 | 1.2108 | 3.4365 | .15129 | .56072 | 3.7142 |
| #1 | .03211 | .00038 | -.00017 | .02629 | 4.2166 | .00786 | 47.269 | .01319 | .00456 |
| #2 | .03215 | .00048 | .00023 | .02999 | 4.1450 | .00749 | 47.370 | .01308 | .00480 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.712** | **.00097** | **.20531** | **.00245** | **44.690** | **-.00082** | **.00140** | **6.1745** | **-.00060** |
| Stddev | .477 | .00034 | .00237 | .00043 | .017 | .00056 | .00446 | .0647 | .00040 |
| %RSD | .84110 | 35.322 | 1.1549 | 17.566 | .03692 | 68.727 | 319.37 | 1.0474 | 67.351 |
| #1 | 56.375 | .00073 | .20364 | .00215 | 44.702 | -.00122 | .00455 | 6.1288 | -.00088 |
| #2 | 57.050 | .00121 | .20699 | .00276 | 44.678 | -.00042 | -.00176 | 6.2203 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7311** | **.00161** | **.00050** | **-.00025** | **-.04605** | **-.00115** | **.01921** | **.00336** |
| Stddev | .0171 | .00203 | .00025 | .00082 | .00297 | .00009 | .00027 | .00062 |
| %RSD | .98637 | 126.11 | 49.825 | 322.96 | 6.4598 | 8.1926 | 1.3974 | 18.418 |
| #1 | 1.7190 | .00017 | .00067 | .00033 | -.04816 | -.00121 | .01940 | .00293 |
| #2 | 1.7432 | .00305 | .00032 | -.00083 | -.04395 | -.00108 | .01902 | .00380 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5643.6** | **71934.** | **4241.6** |
| Stddev | .7 | 58. | 56.2 |
| %RSD | .01272 | .08116 | 1.3245 |
| #1 | 5643.1 | 71893. | 4281.4 |
| #2 | 5644.1 | 71976. | 4201.9 |

Sample Name: 280-42191-A-4-A Acquired: 5/17/2013 4:31:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00179** | **.01010** | **.00209** | **1.0534** | **.09991** | **-.00014** | **-.00081** | **143.58** | **.00017** |
| Stddev | .00031 | .00021 | .00221 | .0017 | .00013 | .00006 | .00173 | .03 | .00001 |
| %RSD | 17.348 | 2.0464 | 105.83 | .15998 | .13197 | 38.569 | 215.23 | .02335 | 7.3007 |
| #1 | .00201 | .01024 | .00366 | 1.0522 | .09982 | -.00018 | .00042 | 143.60 | .00016 |
| #2 | .00157 | .00995 | .00053 | 1.0546 | .10001 | -.00010 | -.00203 | 143.56 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00055** | **.00249** | **.02462** | **3.4721** | **.00240** | **41.250** | **.00937** | **.00572** |
| Stddev | .00000 | .00011 | .00005 | .00393 | .0473 | .00033 | .104 | .00005 | .00017 |
| %RSD | .06342 | 19.661 | 2.1749 | 15.970 | 1.3616 | 13.610 | .25154 | .54099 | 2.8973 |
| #1 | .00055 | .00063 | .00245 | .02184 | 3.4387 | .00217 | 41.324 | .00940 | .00561 |
| #2 | .00055 | .00048 | .00253 | .02740 | 3.5056 | .00264 | 41.177 | .00933 | .00584 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **127.83** | **.00175** | **.19195** | **.00159** | **17.761** | **-.00213** | **-.00160** | **4.7688** | **-.00028** |
| Stddev | .56 | .00024 | .00028 | .00166 | .011 | .00115 | .00004 | .0035 | .00032 |
| %RSD | .44062 | 13.453 | .14402 | 104.32 | .06056 | 53.764 | 2.7284 | .07288 | 114.38 |
| #1 | 128.23 | .00158 | .19214 | .00276 | 17.769 | -.00132 | -.00163 | 4.7663 | -.00051 |
| #2 | 127.43 | .00192 | .19175 | .00042 | 17.754 | -.00294 | -.00156 | 4.7712 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30198** | **.00017** | **.00050** | **-.00002** | W **-.06248** | **-.00042** | **.04214** | **.00413** |
| Stddev | .00001 | .00086 | .00000 | .00164 | .04151 | .00034 | .00002 | .00238 |
| %RSD | .00455 | 510.65 | .98728 | 10526. | 66.432 | 80.202 | .04701 | 57.657 |
| #1 | .30197 | -.00044 | .00049 | .00114 | -.03313 | -.00066 | .04213 | .00245 |
| #2 | .30199 | .00078 | .00050 | -.00117 | -.09183 | -.00018 | .04216 | .00582 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5644.9** | **72197.** | **4243.4** |
| Stddev | 9.3 | 205. | 24.9 |
| %RSD | .16465 | .28379 | .58601 |
| #1 | 5638.3 | 72052. | 4225.8 |
| #2 | 5651.4 | 72342. | 4261.0 |

Sample Name: 280-42191-A-5-A Acquired: 5/17/2013 4:34:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00119** | **.01092** | **-.00082** | **.50159** | **.03317** | **-.00017** | **-.00226** | **197.23** | **.00051** |
| Stddev | .00095 | .00050 | .00023 | .00088 | .00051 | .00010 | .00077 | .63 | .00018 |
| %RSD | 80.510 | 4.5534 | 27.805 | .17463 | 1.5496 | 55.424 | 34.033 | .31878 | 35.976 |
| #1 | .00186 | .01056 | -.00066 | .50097 | .03281 | -.00011 | -.00172 | 197.67 | .00038 |
| #2 | .00051 | .01127 | -.00098 | .50221 | .03353 | -.00024 | -.00281 | 196.78 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00360** | **.00049** | **.00122** | **.48473** | **5.8489** | **.01732** | **56.083** | **.22983** | **.00017** |
| Stddev | .00004 | .00025 | .00011 | .00345 | .0621 | .00188 | .123 | .00045 | .00004 |
| %RSD | 1.2494 | 51.237 | 8.7842 | .71125 | 1.0624 | 10.834 | .21926 | .19432 | 24.349 |
| #1 | .00363 | .00067 | .00114 | .48717 | 5.8928 | .01864 | 55.996 | .22951 | .00020 |
| #2 | .00357 | .00031 | .00129 | .48230 | 5.8049 | .01599 | 56.170 | .23014 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.092** | **.00624** | **.17203** | **.00327** | **107.56** | **-.00096** | **-.00007** | **5.0024** | **.00038** |
| Stddev | .407 | .00025 | .00116 | .00098 | .15 | .00167 | .00249 | .0034 | .00036 |
| %RSD | 1.5610 | 3.9421 | .67657 | 29.957 | .13666 | 173.33 | 3427.2 | .06818 | 96.664 |
| #1 | 25.804 | .00606 | .17120 | .00258 | 107.66 | -.00215 | -.00183 | 5.0048 | .00063 |
| #2 | 26.380 | .00641 | .17285 | .00396 | 107.46 | .00022 | .00169 | 5.0000 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65143** | **.00175** | **.00085** | **.00049** | W **-.06417** | **-.00069** | **.04362** | **.00027** |
| Stddev | .00191 | .00125 | .00038 | .00107 | .04663 | .00012 | .00112 | .00191 |
| %RSD | .29358 | 71.406 | 44.539 | 216.70 | 72.673 | 17.833 | 2.5779 | 699.28 |
| #1 | .65278 | .00263 | .00058 | -.00026 | -.09714 | -.00060 | .04283 | -.00108 |
| #2 | .65008 | .00087 | .00111 | .00125 | -.03119 | -.00077 | .04442 | .00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5654.9** | **72581.** | **4258.8** |
| Stddev | 1.3 | 121. | 43.0 |
| %RSD | .02302 | .16722 | 1.0107 |
| #1 | 5655.8 | 72667. | 4228.4 |
| #2 | 5654.0 | 72495. | 4289.2 |

Sample Name: 280-42191-A-6-A Acquired: 5/17/2013 4:36:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00170** | **.00322** | **.00293** | **.39624** | **.08083** | **-.00006** | **-.00125** | **138.22** | **.00017** |
| Stddev | .00033 | .00010 | .00276 | .00071 | .00004 | .00002 | .00056 | .91 | .00010 |
| %RSD | 19.163 | 2.9554 | 93.949 | .18004 | .04365 | 29.832 | 45.193 | .65770 | 61.373 |
| #1 | .00193 | .00315 | .00488 | .39675 | .08081 | -.00007 | -.00165 | 137.58 | .00010 |
| #2 | .00147 | .00328 | .00098 | .39574 | .08086 | -.00004 | -.00085 | 138.86 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00025** | **.00003** | **.00285** | **1.5471** | **.00918** | **37.907** | **.04890** | **.00189** |
| Stddev | .00021 | .00015 | .00038 | .00120 | .1052 | .00081 | .122 | .00015 | .00010 |
| %RSD | 59.681 | 57.839 | 1421.7 | 42.061 | 6.8010 | 8.8381 | .32090 | .31171 | 5.3069 |
| #1 | .00050 | .00015 | .00029 | .00200 | 1.6215 | .00860 | 37.993 | .04901 | .00196 |
| #2 | .00020 | .00036 | -.00024 | .00370 | 1.4727 | .00975 | 37.821 | .04880 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **39.591** | **.00247** | **.17817** | **.00216** | **34.852** | **.00003** | **.00885** | **4.3560** | **.00018** |
| Stddev | .041 | .00003 | .00236 | .00029 | .084 | .00044 | .00088 | .0127 | .00030 |
| %RSD | .10398 | 1.0430 | 1.3262 | 13.329 | .24061 | 1538.8 | 9.9736 | .29185 | 167.71 |
| #1 | 39.562 | .00245 | .17984 | .00236 | 34.793 | .00034 | .00822 | 4.3650 | .00038 |
| #2 | 39.621 | .00248 | .17650 | .00195 | 34.911 | -.00028 | .00947 | 4.3470 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40880** | **.00074** | **.00035** | **-.00072** | **-.04751** | **-.00043** | **.01229** | **.00407** |
| Stddev | .00290 | .00153 | .00011 | .00090 | .02040 | .00008 | .00112 | .00021 |
| %RSD | .71032 | 206.18 | 31.426 | 123.67 | 42.943 | 19.710 | 9.1444 | 5.2367 |
| #1 | .40675 | .00182 | .00027 | -.00136 | -.06193 | -.00049 | .01309 | .00392 |
| #2 | .41085 | -.00034 | .00043 | -.00009 | -.03308 | -.00037 | .01150 | .00422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5698.1** | **72653.** | **4253.2** |
| Stddev | 17.1 | 475. | 14.5 |
| %RSD | .29978 | .65336 | .34031 |
| #1 | 5686.0 | 72318. | 4263.4 |
| #2 | 5710.2 | 72989. | 4243.0 |

Sample Name: 280-42191-A-7-A Acquired: 5/17/2013 4:39:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00116** | **.00075** | **.00261** | **.38714** | **.07890** | **-.00009** | **-.00117** | **135.89** | **.00002** |
| Stddev | .00006 | .00023 | .00020 | .00017 | .00027 | .00012 | .00226 | .17 | .00018 |
| %RSD | 5.1282 | 31.466 | 7.6964 | .04319 | .34836 | 131.33 | 193.61 | .12671 | 1113.2 |
| #1 | .00112 | .00058 | .00275 | .38725 | .07910 | -.00001 | .00043 | 136.01 | -.00011 |
| #2 | .00121 | .00091 | .00247 | .38702 | .07871 | -.00018 | -.00276 | 135.76 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00038** | **.00027** | **.01359** | **1.5281** | **.00951** | **37.323** | **.04834** | **.00184** |
| Stddev | .00009 | .00005 | .00013 | .00016 | .0105 | .00134 | .141 | .00021 | .00003 |
| %RSD | 17.630 | 12.157 | 48.449 | 1.1791 | .68630 | 14.075 | .37854 | .44461 | 1.8258 |
| #1 | .00044 | .00041 | .00037 | .01348 | 1.5207 | .01045 | 37.423 | .04849 | .00186 |
| #2 | .00056 | .00035 | .00018 | .01371 | 1.5355 | .00856 | 37.223 | .04819 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **38.700** | **.00231** | **.16126** | **.00361** | **34.330** | **.00040** | **.00926** | **4.2815** | **-.00060** |
| Stddev | .048 | .00024 | .00176 | .00080 | .005 | .00024 | .00057 | .0367 | .00019 |
| %RSD | .12305 | 10.423 | 1.0898 | 22.198 | .01514 | 59.159 | 6.1697 | .85721 | 31.893 |
| #1 | 38.734 | .00248 | .16001 | .00304 | 34.326 | .00023 | .00967 | 4.3074 | -.00074 |
| #2 | 38.667 | .00214 | .16250 | .00417 | 34.333 | .00057 | .00886 | 4.2555 | -.00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40274** | **.00124** | **.00068** | **-.00038** | **-.03070** | **-.00101** | **.00792** | **.00426** |
| Stddev | .00033 | .00222 | .00035 | .00189 | .00950 | .00056 | .00013 | .00093 |
| %RSD | .08245 | 179.47 | 52.005 | 489.79 | 30.934 | 55.627 | 1.6727 | 21.699 |
| #1 | .40298 | -.00033 | .00093 | -.00172 | -.02399 | -.00141 | .00802 | .00492 |
| #2 | .40251 | .00281 | .00043 | .00095 | -.03742 | -.00061 | .00783 | .00361 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5707.4** | **73138.** | **4288.5** |
| Stddev | 2.9 | 479. | .5 |
| %RSD | .05155 | .65554 | .01065 |
| #1 | 5705.4 | 72799. | 4288.8 |
| #2 | 5709.5 | 73477. | 4288.1 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 4:41:27 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01198** | **47.397** | k **-.00055** | **.00827** | k **-.00050** | k **-.00001** | k **.95967** | k **.00035** | k **-.00064** | k **.00188** | k **.00055** | k **.00898** |
| Stddev | .00011 | .233 | .00169 | .00024 | .00010 | .00009 | .00253 | .00058 | .00002 | .00015 | .00005 | .00041 |
| %RSD | .95769 | .49254 | 305.99 | 2.9276 | 19.255 | 836.15 | .26393 | 164.43 | 2.4458 | 8.0599 | 8.5139 | 4.5427 |
| #1 | k .01190 | 47.232 | k .00064 | .00810 | k -.00044 | k -.00008 | k .95788 | k .00076 | k -.00065 | k .00178 | k .00058 | k .00927 |
| #2 | k .01206 | 47.562 | k -.00174 | .00844 | k -.00057 | k .00006 | k .96146 | k -.00006 | k -.00063 | k .00199 | k .00051 | k .00869 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.719** | **.04797** | k **-.00173** | k **-.19448** | **-.00016** | **-.00205** | **270.90** | **.00111** | **.00482** | k **.00805** | **5.1099** | k **-.02386** |
| Stddev | .073 | .05197 | .00224 | .00028 | .00006 | .00027 | .01 | .00009 | .00057 | .00069 | .0086 | .00023 |
| %RSD | .16408 | 108.34 | 129.45 | .14290 | 37.162 | 13.091 | .00359 | 7.7467 | 11.827 | 8.5291 | .16880 | .94609 |
| #1 | k 44.771 | .01122 | k -.00015 | k -.19468 | -.00012 | -.00186 | 270.89 | .00117 | .00522 | k .00854 | 5.1160 | k -.02370 |
| #2 | k 44.667 | .08472 | k -.00332 | k -.19429 | -.00020 | -.00223 | 270.91 | .00104 | .00442 | k .00757 | 5.1038 | k -.02401 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01486** | k **.01428** | k **.00117** | **.00045** | k **5.4053** | k **.01588** | k **-.00501** | k **9.9271** | k **-.00070** | k **.00270** | k **.20368** |
| Stddev | .00211 | .01195 | .00003 | .00001 | .0177 | .00026 | .00005 | .0350 | .00004 | .00003 | .00013 |
| %RSD | 14.176 | 83.702 | 2.3025 | 1.2419 | .32779 | 1.6636 | .91709 | .35247 | 5.4605 | .95913 | .06436 |
| #1 | k -.01337 | k .00583 | k .00115 | .00045 | k 5.4178 | k .01606 | k -.00505 | k 9.9024 | k -.00073 | k .00268 | k .20358 |
| #2 | k -.01635 | k .02273 | k .00119 | .00045 | k 5.3928 | k .01569 | k -.00498 | k 9.9519 | k -.00068 | k .00272 | k .20377 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5763.8** | **72020.** | **4268.7** |
| Stddev | 18.8 | 209. | 16.4 |
| %RSD | .32609 | .29007 | .38468 |
| #1 | 5777.1 | 71872. | 4280.3 |
| #2 | 5750.5 | 72167. | 4257.1 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 4:43:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50982** | **.49533** | **.98898** | **.52509** | **.51213** | **.45782** | **.00199** | **4.6985** | **.50076** | **.51008** | **.49008** | **.48757** |
| Stddev | .00122 | .00103 | .00269 | .00016 | .00053 | .00257 | .00142 | .0044 | .00019 | .00113 | .00104 | .00023 |
| %RSD | .24024 | .20790 | .27160 | .03112 | .10419 | .56116 | 71.245 | .09329 | .03786 | .22153 | .21148 | .04778 |
| #1 | .51069 | .49460 | .99088 | .52520 | .51251 | .45963 | .00099 | 4.6954 | .50089 | .51088 | .49081 | .48740 |
| #2 | .50895 | .49606 | .98708 | .52497 | .51175 | .45600 | .00300 | 4.7016 | .50062 | .50928 | .48935 | .48773 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1541** | **53.127** | **1.0683** | **19.351** | **.50095** | **.48069** | **5.0751** | **.49874** | **1.0141** | **1.0053** | **-.01379** | **1.0100** |
| Stddev | .0007 | .237 | .0062 | .032 | .00035 | .00236 | .0410 | .00229 | .0023 | .0035 | .00074 | .0015 |
| %RSD | .03173 | .44574 | .58223 | .16420 | .07002 | .49134 | .80804 | .45949 | .22488 | .34428 | 5.3802 | .14769 |
| #1 | 2.1546 | 53.294 | 1.0727 | 19.374 | .50070 | .48236 | 5.1041 | .50036 | 1.0157 | 1.0077 | -.01327 | 1.0090 |
| #2 | 2.1537 | 52.959 | 1.0639 | 19.329 | .50120 | .47902 | 5.0461 | .49712 | 1.0125 | 1.0028 | -.01432 | 1.0111 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0345** | F **4.3995** | **.95922** | **.51894** | **.00192** | **.49911** | **.96543** | **-.03994** | **.48619** | **.48438** | **.48085** |
| Stddev | .0008 | .0302 | .00480 | .00110 | .00046 | .00001 | .00456 | .04787 | .00037 | .00032 | .00204 |
| %RSD | .07990 | .68621 | .50023 | .21221 | 23.799 | .00160 | .47238 | 119.85 | .07549 | .06530 | .42425 |
| #1 | 1.0339 | 4.3781 | .96261 | .51972 | .00160 | .49912 | .96865 | -.07379 | .48645 | .48461 | .48229 |
| #2 | 1.0350 | 4.4208 | .95582 | .51816 | .00225 | .49911 | .96220 | -.00609 | .48593 | .48416 | .47941 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5824.9** | **73403.** | **4290.1** |
| Stddev | 1.6 | 116. | 5.6 |
| %RSD | .02731 | .15817 | .13013 |
| #1 | 5823.8 | 73485. | 4294.0 |
| #2 | 5826.1 | 73321. | 4286.1 |

Sample Name: CCB Acquired: 5/17/2013 4:46:04 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00195** | **-.00037** | **.00149** | F **.00620** | W **-.00095** | **.00005** | **.00281** | **-.00596** | **-.00004** | **.00026** | **.00023** |
| Stddev | .00015 | .00052 | .00125 | .00031 | .00024 | .00003 | .00169 | .00187 | .00014 | .00004 | .00008 |
| %RSD | 7.6527 | 139.21 | 83.818 | 4.9620 | 25.322 | 65.024 | 60.010 | 31.430 | 321.73 | 14.807 | 35.817 |
| #1 | .00185 | -.00074 | .00061 | .00599 | -.00078 | .00003 | .00400 | -.00728 | .00005 | .00029 | .00028 |
| #2 | .00206 | -.00001 | .00237 | .00642 | -.00112 | .00007 | .00162 | -.00463 | -.00014 | .00023 | .00017 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00180 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00121** | **-.00396** | **.02005** | W **-.00305** | **.00323** | **-.00012** | **-.00030** | **-.02937** | **.00033** | **.00063** | **-.00080** |
| Stddev | .00000 | .00105 | .02267 | .00113 | .00205 | .00000 | .00004 | .01273 | .00028 | .00196 | .00089 |
| %RSD | .39095 | 26.433 | 113.05 | 36.915 | 63.512 | 1.2647 | 14.198 | 43.331 | 85.204 | 311.39 | 110.67 |
| #1 | -.00121 | -.00469 | .00402 | -.00226 | .00467 | -.00012 | -.00027 | -.03837 | .00013 | -.00076 | -.00017 |
| #2 | -.00120 | -.00322 | .03608 | -.00385 | .00178 | -.00012 | -.00033 | -.02037 | .00053 | .00202 | -.00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01121** | **-.00119** | **.00220** | **-.00516** | **.00053** | **.00020** | **.00046** | **-.00036** | **.00030** | **-.01137** | W **-.00147** |
| Stddev | .00046 | .00035 | .00019 | .00244 | .00056 | .00003 | .00100 | .00040 | .00021 | .01566 | .00041 |
| %RSD | 4.1146 | 29.114 | 8.6330 | 47.308 | 104.85 | 14.673 | 217.50 | 111.01 | 69.383 | 137.68 | 27.688 |
| #1 | -.01088 | -.00095 | .00206 | -.00343 | .00014 | .00022 | -.00025 | -.00008 | .00015 | -.00030 | -.00175 |
| #2 | -.01153 | -.00144 | .00233 | -.00689 | .00093 | .00018 | .00117 | -.00065 | .00045 | -.02245 | -.00118 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00234** | W **.00262** |
| Stddev | .00026 | .00389 |
| %RSD | 11.069 | 148.37 |
| #1 | .00252 | .00537 |
| #2 | .00215 | -.00013 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5884.5** | **74359.** | **4270.7** |
| Stddev | 2.2 | 73. | 55.5 |
| %RSD | .03675 | .09764 | 1.3004 |
| #1 | 5886.0 | 74307. | 4231.5 |
| #2 | 5882.9 | 74410. | 4310.0 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 4:48:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01154** | **.10126** | **.01776** | **.10964** | **.00973** | **.00088** | **.10474** | **.18411** | **.00504** | **.01086** | **.01014** |
| Stddev | .00035 | .00067 | .00292 | .00001 | .00015 | .00003 | .00188 | .00209 | .00004 | .00007 | .00013 |
| %RSD | 3.0747 | .66623 | 16.448 | .01330 | 1.5373 | 3.1730 | 1.7969 | 1.1364 | .78087 | .61840 | 1.2563 |
| #1 | .01129 | .10078 | .01569 | .10965 | .00962 | .00089 | .10341 | .18264 | .00507 | .01091 | .01005 |
| #2 | .01179 | .10174 | .01983 | .10963 | .00983 | .00086 | .10607 | .18559 | .00501 | .01081 | .01023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01340** | **.08358** | **3.2977** | F **.00690** | **.20078** | **.01010** | **.01856** | **1.0052** | **.04071** | **3.0176** | **.00945** |
| Stddev | .00016 | .00019 | .0791 | .00147 | .00143 | .00004 | .00012 | .0079 | .00003 | .0005 | .00090 |
| %RSD | 1.1767 | .23009 | 2.3997 | 21.260 | .71050 | .39488 | .63934 | .78671 | .06994 | .01747 | 9.5297 |
| #1 | .01329 | .08344 | 3.2417 | .00586 | .19977 | .01013 | .01848 | 1.0108 | .04073 | 3.0173 | .00881 |
| #2 | .01351 | .08371 | 3.3536 | .00794 | .20179 | .01007 | .01865 | .99959 | .04068 | 3.0180 | .01008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01295** | W **.00748** | **.01665** | **.44793** | **.09686** | **.01063** | **.01661** | **.00970** | **.01472** | F **.02773** | **.00881** |
| Stddev | .00067 | .00082 | .00266 | .00296 | .00022 | .00005 | .00153 | .00019 | .00089 | .00866 | .00033 |
| %RSD | 5.1455 | 10.945 | 15.961 | .66123 | .22720 | .49366 | 9.1843 | 2.0034 | 6.0453 | 31.234 | 3.7102 |
| #1 | -.01248 | .00805 | .01477 | .45003 | .09701 | .01067 | .01553 | .00984 | .01409 | .02161 | .00904 |
| #2 | -.01342 | .00690 | .01853 | .44584 | .09670 | .01059 | .01769 | .00957 | .01535 | .03385 | .00858 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -20.000% | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02270** | **.01686** |
| Stddev | .00022 | .00140 |
| %RSD | .98357 | 8.2821 |
| #1 | .02286 | .01588 |
| #2 | .02254 | .01785 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5968.3** | **75229.** | **4326.2** |
| Stddev | 5.6 | 82. | 9.0 |
| %RSD | .09416 | .10864 | .20758 |
| #1 | 5972.3 | 75287. | 4319.9 |
| #2 | 5964.4 | 75171. | 4332.6 |

Sample Name: 280-42191-A-8-A Acquired: 5/17/2013 4:50:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00166** | **.05954** | **.00306** | **.11972** | **.05073** | **-.00012** | **-.00027** | **73.025** | **.00060** |
| Stddev | .00042 | .00027 | .00041 | .00090 | .00017 | .00013 | .00020 | .324 | .00012 |
| %RSD | 25.255 | .45625 | 13.369 | .75049 | .32868 | 108.98 | 73.591 | .44376 | 19.361 |
| #1 | .00196 | .05973 | .00277 | .11909 | .05085 | -.00003 | -.00013 | 72.796 | .00068 |
| #2 | .00136 | .05935 | .00335 | .12036 | .05062 | -.00021 | -.00042 | 73.254 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00037** | **.00352** | **.23731** | **.79456** | **-.00238** | **21.492** | **.02037** | **.00265** |
| Stddev | .00002 | .00019 | .00021 | .00093 | .00139 | .00166 | .023 | .00003 | .00015 |
| %RSD | 38.079 | 49.885 | 5.8481 | .39399 | .17552 | 69.656 | .10842 | .16768 | 5.8213 |
| #1 | .00008 | .00050 | .00337 | .23797 | .79555 | -.00121 | 21.476 | .02040 | .00254 |
| #2 | .00004 | .00024 | .00366 | .23665 | .79358 | -.00355 | 21.509 | .02035 | .00276 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0438** | **.00192** | **.17345** | **.00517** | **5.1341** | **-.00275** | **.00161** | **4.9406** | **.00093** |
| Stddev | .0056 | .00022 | .00071 | .00118 | .0365 | .00111 | .00063 | .0023 | .00040 |
| %RSD | .18345 | 11.697 | .40678 | 22.762 | .71080 | 40.437 | 38.974 | .04709 | 42.565 |
| #1 | 3.0399 | .00207 | .17295 | .00434 | 5.1082 | -.00196 | .00116 | 4.9390 | .00065 |
| #2 | 3.0478 | .00176 | .17395 | .00600 | 5.1599 | -.00354 | .00205 | 4.9423 | .00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35908** | **.00170** | **.00073** | **-.00139** | **-.02097** | **-.00109** | **.02539** | **.00331** |
| Stddev | .00199 | .00285 | .00025 | .00023 | .01088 | .00006 | .00017 | .00205 |
| %RSD | .55402 | 167.51 | 34.204 | 16.149 | 51.856 | 5.9561 | .65866 | 61.893 |
| #1 | .35767 | .00372 | .00090 | -.00124 | -.02866 | -.00113 | .02527 | .00186 |
| #2 | .36048 | -.00031 | .00055 | -.00155 | -.01328 | -.00104 | .02551 | .00476 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5782.3** | **72989.** | **4305.2** |
| Stddev | 8.8 | 222. | 14.4 |
| %RSD | .15256 | .30454 | .33396 |
| #1 | 5776.0 | 72832. | 4295.0 |
| #2 | 5788.5 | 73147. | 4315.4 |

Sample Name: 280-42191-A-9-A Acquired: 5/17/2013 4:53:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **.00316** | **.00560** | **3.9937** | **.13656** | **-.00008** | **-.00230** | **121.44** | **.00018** |
| Stddev | .00036 | .00026 | .00159 | .0077 | .00099 | .00007 | .00020 | .82 | .00004 |
| %RSD | 26.893 | 8.2042 | 28.487 | .19204 | .72685 | 87.148 | 8.8405 | .67591 | 20.055 |
| #1 | .00160 | .00334 | .00447 | 3.9991 | .13586 | -.00014 | -.00245 | 120.86 | .00015 |
| #2 | .00109 | .00297 | .00672 | 3.9883 | .13726 | -.00003 | -.00216 | 122.02 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00999** | **.00050** | **.00020** | **2.9114** | **3.3353** | **.03219** | **39.175** | **.28368** | **.00180** |
| Stddev | .00021 | .00019 | .00025 | .0030 | .0126 | .00178 | .087 | .00064 | .00002 |
| %RSD | 2.1197 | 38.595 | 123.77 | .10173 | .37805 | 5.5321 | .22150 | .22734 | 1.1615 |
| #1 | .00984 | .00064 | .00003 | 2.9093 | 3.3442 | .03345 | 39.236 | .28413 | .00178 |
| #2 | .01014 | .00036 | .00038 | 2.9135 | 3.3264 | .03093 | 39.114 | .28322 | .00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **128.61** | **.00063** | **.18629** | **.00303** | **43.308** | **-.00057** | **.00141** | **5.3325** | **.00024** |
| Stddev | .64 | .00038 | .00282 | .00008 | .080 | .00109 | .00126 | .0001 | .00102 |
| %RSD | .49745 | 59.298 | 1.5117 | 2.6556 | .18421 | 191.27 | 89.667 | .00106 | 420.82 |
| #1 | 128.16 | .00090 | .18828 | .00297 | 43.364 | -.00134 | .00052 | 5.3325 | -.00048 |
| #2 | 129.06 | .00037 | .18430 | .00309 | 43.251 | .00020 | .00230 | 5.3324 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58904** | **.00213** | **.00036** | **-.00043** | W **-.05340** | **-.00090** | **.01577** | **.00401** |
| Stddev | .00395 | .00270 | .00012 | .00073 | .02611 | .00141 | .00036 | .00224 |
| %RSD | .66979 | 126.97 | 32.338 | 169.81 | 48.894 | 157.41 | 2.2855 | 55.851 |
| #1 | .58625 | .00404 | .00028 | .00009 | -.07186 | -.00190 | .01603 | .00242 |
| #2 | .59183 | .00022 | .00045 | -.00095 | -.03494 | .00010 | .01552 | .00559 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5671.4** | **72079.** | **4250.0** |
| Stddev | 24.4 | 406. | 15.2 |
| %RSD | .43038 | .56344 | .35755 |
| #1 | 5654.1 | 71792. | 4260.7 |
| #2 | 5688.6 | 72366. | 4239.2 |

Sample Name: 280-42191-A-10-A  Acquired: 5/17/2013 4:55:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00218** | **.16817** | **.00221** | **.48281** | **.20235** | **-.00005** | **-.00597** | **123.00** | **.00023** |
| Stddev | .00004 | .00099 | .00173 | .00183 | .00113 | .00001 | .00001 | .23 | .00000 |
| %RSD | 1.6338 | .58930 | 78.186 | .37934 | .55768 | 20.090 | .08846 | .18906 | .54864 |
| #1 | .00216 | .16747 | .00099 | .48411 | .20315 | -.00005 | -.00596 | 123.16 | .00023 |
| #2 | .00221 | .16887 | .00343 | .48152 | .20155 | -.00004 | -.00597 | 122.84 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00165** | **.00098** | **-.00027** | **.47214** | **2.3795** | **.00493** | **43.304** | **.16027** | **.00677** |
| Stddev | .00024 | .00015 | .00027 | .00844 | .0623 | .00040 | .092 | .00013 | .00017 |
| %RSD | 14.559 | 15.146 | 100.31 | 1.7885 | 2.6182 | 8.2128 | .21320 | .08076 | 2.4581 |
| #1 | .00148 | .00087 | -.00008 | .47811 | 2.3355 | .00521 | 43.369 | .16036 | .00665 |
| #2 | .00182 | .00108 | -.00046 | .46617 | 2.4236 | .00464 | 43.238 | .16018 | .00689 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.1218** | **10.731** | **.00122** | **.19944** | **.00266** | **18.555** | **.00009** | **.00104** | **6.0830** |
| Stddev | .0204 | .148 | .00013 | .00277 | .00262 | .010 | .00038 | .00952 | .0212 |
| %RSD | .22324 | 1.3795 | 10.437 | 1.3908 | 98.517 | .05308 | 405.82 | 911.33 | .34919 |
| #1 | 9.1362 | 10.835 | .00131 | .20140 | .00451 | 18.562 | .00036 | .00778 | 6.0980 |
| #2 | 9.1074 | 10.626 | .00113 | .19748 | .00081 | 18.548 | -.00018 | -.00569 | 6.0680 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.60608** | **.00198** | **.00585** | **-.00004** | W **-.05019** | **-.00072** | **.00572** | **.00245** |
| Stddev | .00042 | .00138 | .00106 | .00048 | .00147 | .01573 | .00051 | .00026 | .00110 |
| %RSD | 122.49 | .22709 | 53.687 | 8.1753 | 3703.4 | 31.334 | 70.973 | 4.6140 | 45.094 |
| #1 | .00063 | .60706 | .00123 | .00619 | -.00108 | -.03907 | -.00036 | .00554 | .00323 |
| #2 | .00005 | .60511 | .00272 | .00551 | .00100 | -.06132 | -.00108 | .00591 | .00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 45.000 | | | |
| Low Limit | | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5710.1** | **72896.** | **4299.7** |
| Stddev | 11.0 | 157. | 6.8 |
| %RSD | .19322 | .21592 | .15811 |
| #1 | 5717.9 | 72785. | 4294.8 |
| #2 | 5702.3 | 73008. | 4304.5 |

Sample Name: 280-42191-A-11-A  Acquired: 5/17/2013 4:58:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00160** | **.00307** | **.00437** | **.32533** | **.03814** | **-.00012** | **-.00284** | **114.88** | **.00029** |
| Stddev | .00005 | .00041 | .00229 | .00024 | .00009 | .00003 | .00116 | .11 | .00006 |
| %RSD | 3.4135 | 13.353 | 52.356 | .07374 | .22954 | 28.229 | 40.827 | .09475 | 21.023 |
| #1 | .00163 | .00278 | .00599 | .32516 | .03821 | -.00014 | -.00202 | 114.96 | .00033 |
| #2 | .00156 | .00336 | .00275 | .32550 | .03808 | -.00009 | -.00366 | 114.80 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **.00042** | **-.00036** | **1.1968** | **2.1452** | **.00760** | **37.532** | **.11482** | **.00949** |
| Stddev | .00021 | .00013 | .00015 | .0011 | .0197 | .00017 | .041 | .00040 | .00028 |
| %RSD | 25.866 | 31.061 | 43.632 | .09302 | .91941 | 2.2009 | .10924 | .34468 | 2.9240 |
| #1 | .00098 | .00051 | -.00025 | 1.1976 | 2.1313 | .00772 | 37.561 | .11510 | .00969 |
| #2 | .00068 | .00032 | -.00046 | 1.1960 | 2.1592 | .00748 | 37.503 | .11454 | .00930 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.1055** | **10.951** | **.00140** | **.22239** | **.00071** | **42.955** | **-.00131** | **.00089** | **6.1740** |
| Stddev | .0017 | .019 | .00014 | .00059 | .00023 | .007 | .00061 | .00400 | .0010 |
| %RSD | .01838 | .17007 | 10.059 | .26676 | 32.480 | .01563 | 47.033 | 448.28 | .01670 |
| #1 | 9.1067 | 10.938 | .00130 | .22281 | .00088 | 42.951 | -.00174 | .00372 | 6.1733 |
| #2 | 9.1043 | 10.965 | .00150 | .22197 | .00055 | 42.960 | -.00087 | -.00194 | 6.1748 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.31633** | **.00249** | **.00043** | **-.00061** | W **-.05100** | **-.00108** | **.00604** | **.00201** |
| Stddev | .00005 | .00033 | .00080 | .00006 | .00038 | .00346 | .00067 | .00036 | .00171 |
| %RSD | 929.35 | .10588 | 32.018 | 13.384 | 61.919 | 6.7876 | 62.440 | 5.9469 | 84.934 |
| #1 | -.00004 | .31609 | .00193 | .00047 | -.00088 | -.04855 | -.00060 | .00629 | .00080 |
| #2 | .00003 | .31656 | .00306 | .00039 | -.00035 | -.05345 | -.00156 | .00578 | .00322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 45.000 | | | |
| Low Limit | | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5826.8** | **73980.** | **4300.9** |
| Stddev | 16.2 | 272. | 9.8 |
| %RSD | .27853 | .36766 | .22735 |
| #1 | 5815.3 | 73788. | 4294.0 |
| #2 | 5838.3 | 74172. | 4307.8 |

Sample Name: 280-42191-A-12-A  Acquired: 5/17/2013 5:00:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **.00219** | **.00082** | **.00584** | **-.00094** | **-.00010** | **-.00014** | **.03995** | **.00014** |
| Stddev | .00017 | .00028 | .00008 | .00053 | .00032 | .00005 | .00248 | .00021 | .00005 |
| %RSD | 8.4252 | 12.925 | 9.8809 | 9.1386 | 34.380 | 44.075 | 1815.7 | .52603 | 35.838 |
| #1 | .00209 | .00239 | .00076 | .00622 | -.00071 | -.00007 | -.00189 | .04010 | .00018 |
| #2 | .00186 | .00199 | .00087 | .00547 | -.00117 | -.00014 | .00162 | .03980 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00027** | **.00202** | **.00632** | **.04297** | **-.00396** | **.00705** | **.00007** | **-.00010** |
| Stddev | .00021 | .00008 | .00016 | .00021 | .02974 | .00055 | .00013 | .00000 | .00012 |
| %RSD | 65.983 | 28.445 | 7.9623 | 3.3159 | 69.211 | 13.799 | 1.9033 | 4.0632 | 117.10 |
| #1 | .00017 | .00033 | .00191 | .00618 | .06401 | -.00434 | .00696 | .00007 | -.00018 |
| #2 | .00048 | .00022 | .00214 | .00647 | .02194 | -.00357 | .00715 | .00007 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03225** | **.00033** | **.14597** | **-.00005** | **-.00533** | **-.00177** | **.00241** | **.01258** | **.00010** |
| Stddev | .00023 | .00022 | .00076 | .00094 | .00223 | .00288 | .00004 | .00208 | .00051 |
| %RSD | .71840 | 65.294 | .51937 | 1732.8 | 41.810 | 162.74 | 1.7133 | 16.502 | 534.18 |
| #1 | -.03208 | .00048 | .14544 | -.00072 | -.00375 | -.00381 | .00238 | .01111 | .00046 |
| #2 | -.03241 | .00018 | .14651 | .00061 | -.00691 | .00027 | .00244 | .01405 | -.00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00340** | **-.00018** | **-.00192** | **-.04760** | **-.00119** | **.00501** | **.00184** |
| Stddev | .00003 | .00063 | .00001 | .00022 | .01226 | .00048 | .00040 | .00017 |
| %RSD | 48.448 | 18.585 | 6.6483 | 11.311 | 25.752 | 40.657 | 7.9467 | 9.1823 |
| #1 | .00004 | .00295 | -.00019 | -.00177 | -.03893 | -.00153 | .00473 | .00196 |
| #2 | .00009 | .00385 | -.00017 | -.00208 | -.05626 | -.00085 | .00529 | .00172 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6038.1** | **76668.** | **4426.5** |
| Stddev | 6.7 | 154. | 8.2 |
| %RSD | .11082 | .20110 | .18610 |
| #1 | 6042.8 | 76777. | 4432.3 |
| #2 | 6033.3 | 76559. | 4420.7 |

Sample Name: 280-42191-A-13-A Acquired: 5/17/2013 5:03:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00231** | **.00131** | **.00119** | **.00432** | **-.00057** | **-.00005** | **.00015** | **.00320** | **.00012** |
| Stddev | .00024 | .00036 | .00017 | .00035 | .00061 | .00003 | .00080 | .00231 | .00006 |
| %RSD | 10.235 | 27.265 | 14.311 | 8.1842 | 107.19 | 60.478 | 523.70 | 72.149 | 51.270 |
| #1 | .00214 | .00156 | .00131 | .00407 | -.00101 | -.00003 | -.00041 | .00483 | .00008 |
| #2 | .00248 | .00106 | .00107 | .00457 | -.00014 | -.00007 | .00072 | .00157 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00044** | **-.00057** | **.00538** | **.01908** | **-.00355** | **.00471** | **.00009** | **-.00024** |
| Stddev | .00008 | .00002 | .00011 | .00245 | .02597 | .00140 | .00111 | .00002 | .00012 |
| %RSD | 1108.2 | 3.6205 | 19.187 | 45.594 | 136.11 | 39.259 | 23.560 | 18.679 | 49.143 |
| #1 | .00005 | .00043 | -.00049 | .00365 | .00072 | -.00257 | .00549 | .00008 | -.00016 |
| #2 | -.00006 | .00046 | -.00065 | .00711 | .03744 | -.00454 | .00392 | .00011 | -.00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04159** | **.00001** | **.16875** | **.00107** | **-.00998** | **-.00262** | **.00266** | **.01006** | **-.00002** |
| Stddev | .00997 | .00014 | .00125 | .00146 | .00428 | .00013 | .00424 | .00511 | .00041 |
| %RSD | 23.978 | 1702.2 | .74212 | 137.31 | 42.835 | 4.9206 | 159.26 | 50.762 | 2049.6 |
| #1 | -.04864 | -.00009 | .16787 | .00210 | -.00696 | -.00271 | -.00034 | .01367 | .00027 |
| #2 | -.03454 | .00010 | .16964 | .00003 | -.01300 | -.00253 | .00565 | .00645 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00211** | **-.00029** | **-.00041** | **-.01088** | **-.00107** | **.00352** | **.00335** |
| Stddev | .00013 | .00266 | .00006 | .00033 | .04479 | .00047 | .00018 | .00107 |
| %RSD | 657.87 | 126.57 | 22.128 | 79.763 | 411.65 | 44.128 | 5.1548 | 31.942 |
| #1 | -.00007 | .00399 | -.00034 | -.00065 | .02079 | -.00074 | .00364 | .00260 |
| #2 | .00011 | .00022 | -.00024 | -.00018 | -.04255 | -.00141 | .00339 | .00411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6039.9** | **76722.** | **4430.3** |
| Stddev | 2.4 | 46. | 19.2 |
| %RSD | .03971 | .06010 | .43433 |
| #1 | 6038.2 | 76754. | 4416.7 |
| #2 | 6041.6 | 76689. | 4443.9 |

Sample Name: 280-42191-A-14-A  Acquired: 5/17/2013 5:05:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **.00436** | **.00171** | **.65491** | **.07955** | **-.00006** | **-.00122** | **145.59** | **.00020** |
| Stddev | .00039 | .00019 | .00117 | .00023 | .00042 | .00006 | .00365 | 1.21 | .00000 |
| %RSD | 29.443 | 4.2563 | 68.189 | .03539 | .52634 | 94.245 | 300.18 | .83066 | 2.3937 |
| #1 | .00161 | .00423 | .00254 | .65475 | .07984 | -.00002 | .00137 | 146.45 | .00020 |
| #2 | .00106 | .00449 | .00089 | .65508 | .07925 | -.00010 | -.00380 | 144.74 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **.00053** | **-.00022** | **.72713** | **8.5837** | **.00873** | **51.600** | **.19623** | **.00772** |
| Stddev | .00013 | .00012 | .00005 | .00820 | .0646 | .00339 | .081 | .00004 | .00004 |
| %RSD | 11.746 | 23.208 | 20.343 | 1.1272 | .75224 | 38.870 | .15629 | .01883 | .45595 |
| #1 | .00103 | .00044 | -.00019 | .73292 | 8.6294 | .00633 | 51.657 | .19625 | .00775 |
| #2 | .00122 | .00062 | -.00025 | .72133 | 8.5381 | .01113 | 51.543 | .19620 | .00770 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.956** | **.00244** | **.18031** | **.00284** | **43.362** | **-.00004** | **.00047** | **5.7866** | **.00014** |
| Stddev | .140 | .00001 | .00053 | .00070 | .033 | .00002 | .00328 | .0286 | .00006 |
| %RSD | .60956 | .41553 | .29199 | 24.832 | .07549 | 36.528 | 695.29 | .49425 | 40.394 |
| #1 | 22.857 | .00243 | .17994 | .00334 | 43.385 | -.00003 | .00279 | 5.8068 | .00010 |
| #2 | 23.055 | .00245 | .18068 | .00234 | 43.339 | -.00006 | -.00185 | 5.7663 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6238** | **.00258** | **.00006** | **.00013** | **-.04958** | **-.00100** | **.01886** | **.00335** |
| Stddev | .0241 | .00276 | .00038 | .00111 | .00002 | .00005 | .00002 | .00028 |
| %RSD | .91714 | 107.07 | 613.60 | 832.28 | .04271 | 4.8307 | .10135 | 8.3734 |
| #1 | 2.6408 | .00063 | -.00020 | -.00065 | -.04959 | -.00097 | .01887 | .00355 |
| #2 | 2.6067 | .00453 | .00033 | .00091 | -.04956 | -.00104 | .01885 | .00316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5801.5** | **74687.** | **4370.1** |
| Stddev | 11.5 | 72. | 33.6 |
| %RSD | .19740 | .09601 | .76845 |
| #1 | 5793.4 | 74636. | 4346.3 |
| #2 | 5809.6 | 74738. | 4393.8 |

Sample Name: 280-42191-A-15-A  Acquired: 5/17/2013 5:08:00  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00195** | **.01992** | **.00323** | **.14597** | **.10303** | **-.00015** | **-.00072** | **112.73** | **.00040** |
| Stddev | .00009 | .00001 | .00319 | .00007 | .00029 | .00014 | .00273 | .20 | .00008 |
| %RSD | 4.6211 | .04637 | 98.840 | .04822 | .28120 | 91.297 | 379.34 | .17642 | 19.146 |
| #1 | .00201 | .01991 | .00549 | .14602 | .10283 | -.00024 | .00121 | 112.87 | .00046 |
| #2 | .00189 | .01993 | .00097 | .14592 | .10324 | -.00005 | -.00265 | 112.59 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00214** | **.00052** | **.00262** | **.22279** | **1.4729** | **.00171** | **27.678** | **.77573** | **.00054** |
| Stddev | .00022 | .00019 | .00020 | .00018 | .0750 | .00173 | .054 | .00064 | .00012 |
| %RSD | 10.057 | 36.297 | 7.6796 | .08014 | 5.0888 | 101.57 | .19651 | .08295 | 22.700 |
| #1 | .00199 | .00039 | .00276 | .22266 | 1.5259 | .00048 | 27.717 | .77619 | .00045 |
| #2 | .00229 | .00066 | .00248 | .22292 | 1.4199 | .00293 | 27.640 | .77528 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **251.15** | **.00721** | **.17588** | **.00149** | **10.057** | **-.00221** | **.00295** | **4.1113** | **.00000** |
| Stddev | .93 | .00021 | .00010 | .00109 | .033 | .00036 | .00109 | .0053 | .00060 |
| %RSD | .37025 | 2.9232 | .05638 | 72.985 | .33218 | 16.148 | 37.007 | .12932 | 34442. |
| #1 | 251.80 | .00736 | .17581 | .00226 | 10.080 | -.00246 | .00372 | 4.1150 | .00042 |
| #2 | 250.49 | .00706 | .17595 | .00072 | 10.033 | -.00195 | .00218 | 4.1075 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30460** | **.00146** | **.00045** | **-.00003** | **-.02213** | **-.00067** | **.01956** | **.00353** |
| Stddev | .00080 | .00108 | .00027 | .00219 | .01582 | .00050 | .00023 | .00133 |
| %RSD | .26405 | 73.819 | 60.201 | 6459.0 | 71.525 | 74.037 | 1.1785 | 37.605 |
| #1 | .30517 | .00070 | .00026 | .00152 | -.01094 | -.00032 | .01973 | .00259 |
| #2 | .30403 | .00222 | .00064 | -.00159 | -.03331 | -.00103 | .01940 | .00447 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5777.2** | **73964.** | **4385.1** |
| Stddev | .0 | 266. | 3.0 |
| %RSD | .00027 | .36018 | .06943 |
| #1 | 5777.2 | 73775. | 4383.0 |
| #2 | 5777.2 | 74152. | 4387.3 |

Sample Name: 280-42191-A-16-A  Acquired: 5/17/2013 5:10:24  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00159** | **.00293** | **.00778** | **.14863** | **.08270** | **.00005** | **-.00365** | **102.49** | **.00030** |
| Stddev | .00004 | .00001 | .00318 | .00040 | .00033 | .00006 | .00159 | .38 | .00006 |
| %RSD | 2.6246 | .50257 | 40.871 | .26916 | .40360 | 116.33 | 43.639 | .37119 | 18.913 |
| #1 | .00162 | .00292 | .00553 | .14891 | .08246 | .00001 | -.00252 | 102.22 | .00026 |
| #2 | .00156 | .00294 | .01003 | .14835 | .08294 | .00009 | -.00477 | 102.76 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00031** | **-.00140** | **.59157** | **1.4257** | **.00681** | **37.375** | **.01290** | **.01240** |
| Stddev | .00015 | .00000 | .00045 | .00387 | .0429 | .00108 | .179 | .00003 | .00014 |
| %RSD | 27.532 | 1.3474 | 32.171 | .65417 | 3.0074 | 15.876 | .47910 | .23591 | 1.0949 |
| #1 | .00066 | .00031 | -.00108 | .59431 | 1.3954 | .00604 | 37.502 | .01292 | .01250 |
| #2 | .00044 | .00031 | -.00172 | .58884 | 1.4560 | .00757 | 37.249 | .01287 | .01231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.221** | **.00018** | **.19466** | **.00025** | **28.589** | **-.00053** | **-.00278** | **7.0975** | **.00010** |
| Stddev | .204 | .00016 | .00063 | .00043 | .038 | .00073 | .00070 | .0031 | .00025 |
| %RSD | 1.4367 | 84.114 | .32364 | 171.05 | .13161 | 138.74 | 25.257 | .04306 | 245.74 |
| #1 | 14.076 | .00007 | .19422 | .00056 | 28.616 | -.00001 | -.00228 | 7.0953 | .00028 |
| #2 | 14.365 | .00029 | .19511 | -.00005 | 28.563 | -.00104 | -.00328 | 7.0997 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3339** | **.00362** | **.00035** | **.00034** | W **-.07276** | **-.00106** | **.00959** | **.00239** |
| Stddev | .0100 | .00137 | .00010 | .00080 | .04183 | .00003 | .00042 | .00157 |
| %RSD | .42676 | 37.694 | 29.574 | 234.68 | 57.491 | 3.0634 | 4.3311 | 65.806 |
| #1 | 2.3268 | .00266 | .00042 | -.00022 | -.04318 | -.00108 | .00988 | .00128 |
| #2 | 2.3409 | .00459 | .00028 | .00090 | -.10233 | -.00104 | .00929 | .00350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5796.8** | **74673.** | **4348.8** |
| Stddev | 6.8 | 344. | 1.3 |
| %RSD | .11716 | .46051 | .02935 |
| #1 | 5792.0 | 74430. | 4349.7 |
| #2 | 5801.6 | 74916. | 4347.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 5:12:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01106** | **46.858** | k **-.00006** | **.00411** | k **-.00030** | k **-.00010** | k **.95550** | k **-.00934** | k **-.00060** | k **.00230** | k **.00066** | k **.00802** |
| Stddev | .00006 | .130 | .00056 | .00034 | .00020 | .00002 | .00099 | .00393 | .00005 | .00011 | .00003 | .00005 |
| %RSD | .53813 | .27645 | 904.98 | 8.1646 | 68.714 | 18.861 | .10320 | 42.064 | 8.0713 | 4.8612 | 4.9548 | .62999 |
| #1 | k .01102 | 46.767 | k -.00046 | .00387 | k -.00044 | k -.00008 | k .95481 | k -.00657 | k -.00056 | k .00238 | k .00068 | k .00798 |
| #2 | k .01110 | 46.950 | k .00033 | .00435 | k -.00015 | k -.00011 | k .95620 | k -.01212 | k -.00063 | k .00222 | k .00064 | k .00805 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.362** | **.04693** | k **-.00357** | k **-.19108** | **-.00009** | **-.00230** | **268.01** | **.00113** | **.00734** | k **.00754** | **5.0446** | k **-.02266** |
| Stddev | .025 | .03261 | .00256 | .00132 | .00009 | .00015 | .59 | .00012 | .00129 | .00087 | .0292 | .00002 |
| %RSD | .05628 | 69.486 | 71.720 | .69159 | 106.57 | 6.3615 | .21886 | 10.317 | 17.572 | 11.567 | .57931 | .06745 |
| #1 | k 44.344 | .06999 | k -.00176 | k -.19015 | -.00015 | -.00240 | 267.60 | .00105 | .00643 | k .00693 | 5.0239 | k -.02267 |
| #2 | k 44.379 | .02387 | k -.00538 | k -.19202 | -.00002 | -.00220 | 268.43 | .00121 | .00826 | k .00816 | 5.0652 | k -.02264 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01431** | k **.01225** | k **.00090** | **.00049** | k **5.3436** | k **.01631** | k **-.00383** | k **9.7991** | k **-.00052** | k **.00300** | k **.19712** |
| Stddev | .00189 | .00910 | .00028 | .00006 | .0047 | .00032 | .00078 | .0097 | .00019 | .00069 | .00084 |
| %RSD | 13.205 | 74.243 | 31.500 | 12.329 | .08758 | 1.9683 | 20.263 | .09919 | 36.065 | 22.845 | .42702 |
| #1 | k -.01297 | k .00582 | k .00070 | .00045 | k 5.3469 | k .01608 | k -.00328 | k 9.7922 | k -.00065 | k .00252 | k .19772 |
| #2 | k -.01565 | k .01869 | k .00110 | .00054 | k 5.3403 | k .01653 | k -.00438 | k 9.8060 | k -.00039 | k .00349 | k .19653 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5806.1** | **74301.** | **4333.1** |
| Stddev | 26.5 | 28. | .6 |
| %RSD | .45621 | .03722 | .01300 |
| #1 | 5824.8 | 74320. | 4333.5 |
| #2 | 5787.3 | 74281. | 4332.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 5:15:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50880** | **.49976** | **.98282** | **.51965** | **.51721** | **.45901** | **.00009** | **4.7091** | **.50055** | **.51201** | **.48978** | **.48381** |
| Stddev | .00093 | .00040 | .00229 | .00041 | .00193 | .00062 | .00169 | .0046 | .00039 | .00005 | .00037 | .00151 |
| %RSD | .18355 | .08025 | .23312 | .07901 | .37396 | .13463 | 1827.2 | .09683 | .07873 | .00922 | .07514 | .31269 |
| #1 | .50814 | .50004 | .98444 | .51994 | .51584 | .45857 | .00129 | 4.7123 | .50083 | .51204 | .49004 | .48488 |
| #2 | .50946 | .49947 | .98120 | .51936 | .51857 | .45945 | -.00110 | 4.7058 | .50027 | .51198 | .48952 | .48274 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1456** | **53.452** | **1.0690** | **19.178** | **.50018** | **.48000** | **5.0639** | **.49746** | **1.0095** | **1.0063** | **-.02268** | **1.0086** |
| Stddev | .0000 | .143 | .0020 | .025 | .00042 | .00036 | .0036 | .00025 | .0018 | .0015 | .00033 | .0021 |
| %RSD | .00135 | .26790 | .19059 | .13126 | .08422 | .07601 | .07122 | .04935 | .17633 | .15420 | 1.4413 | .20683 |
| #1 | 2.1455 | 53.351 | 1.0676 | 19.196 | .49988 | .48026 | 5.0614 | .49764 | 1.0108 | 1.0074 | -.02291 | 1.0071 |
| #2 | 2.1456 | 53.554 | 1.0705 | 19.160 | .50047 | .47974 | 5.0665 | .49729 | 1.0082 | 1.0052 | -.02245 | 1.0101 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0345** | F **4.3774** | **.95989** | **.52642** | **.00302** | **.49964** | **.96863** | **-.04813** | **.48316** | **.48142** | **.48013** |
| Stddev | .0030 | .0323 | .00356 | .00187 | .00047 | .00141 | .00319 | .02070 | .00053 | .00191 | .00102 |
| %RSD | .29157 | .73899 | .37139 | .35519 | 15.609 | .28274 | .32970 | 43.005 | .10873 | .39670 | .21284 |
| #1 | 1.0324 | 4.4003 | .95737 | .52510 | .00268 | .49864 | .96637 | -.03349 | .48279 | .48277 | .48085 |
| #2 | 1.0366 | 4.3545 | .96241 | .52774 | .00335 | .50064 | .97088 | -.06276 | .48353 | .48007 | .47940 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5890.1** | **74684.** | **4308.9** |
| Stddev | 3.3 | 84. | 19.3 |
| %RSD | .05585 | .11260 | .44876 |
| #1 | 5892.4 | 74625. | 4322.6 |
| #2 | 5887.8 | 74744. | 4295.2 |

Sample Name: CCB Acquired: 5/17/2013 5:17:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00138** | **-.00037** | **.00379** | W **.00273** | W **-.00085** | **-.00005** | **.00346** | **-.00431** | **-.00005** | **.00027** | **.00038** |
| Stddev | .00060 | .00003 | .00135 | .00017 | .00021 | .00002 | .00182 | .00360 | .00002 | .00047 | .00010 |
| %RSD | 43.450 | 8.9819 | 35.755 | 6.3357 | 24.188 | 45.393 | 52.690 | 83.555 | 40.444 | 173.61 | 25.769 |
| #1 | .00181 | -.00035 | .00283 | .00285 | -.00070 | -.00003 | .00217 | -.00176 | -.00003 | .00060 | .00045 |
| #2 | .00096 | -.00040 | .00475 | .00261 | -.00099 | -.00006 | .00475 | -.00685 | -.00006 | -.00006 | .00031 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00156 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00156 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00151** | **-.00302** | **.06596** | W **-.00329** | **.00304** | **-.00008** | **-.00034** | **-.02626** | **.00045** | **.00155** | **.00021** |
| Stddev | .00029 | .00070 | .00348 | .00033 | .00033 | .00002 | .00014 | .01049 | .00005 | .00088 | .00045 |
| %RSD | 19.479 | 23.338 | 5.2774 | 10.004 | 10.990 | 22.165 | 41.764 | 39.937 | 11.336 | 56.852 | 212.20 |
| #1 | -.00130 | -.00352 | .06350 | -.00306 | .00280 | -.00010 | -.00024 | -.03367 | .00049 | .00217 | -.00011 |
| #2 | -.00172 | -.00252 | .06842 | -.00352 | .00328 | -.00007 | -.00044 | -.01884 | .00041 | .00093 | .00053 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | .00261 | | | | | | | |
| Low Limit | -.00136 | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02262** | **-.00199** | **-.00007** | **.02052** | **-.00010** | **.00003** | **.00145** | **-.00006** | **.00045** | **.01214** | W **-.00128** |
| Stddev | .00245 | .00136 | .00017 | .01536 | .00024 | .00003 | .00010 | .00019 | .00098 | .00385 | .00018 |
| %RSD | 10.817 | 68.504 | 242.06 | 74.852 | 238.51 | 100.50 | 6.6932 | 300.31 | 216.90 | 31.736 | 14.170 |
| #1 | -.02089 | -.00103 | .00005 | .00966 | -.00027 | .00005 | .00152 | .00007 | .00115 | .01486 | -.00115 |
| #2 | -.02435 | -.00295 | -.00019 | .03139 | .00007 | .00001 | .00138 | -.00020 | -.00024 | .00941 | -.00141 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00275** | **.00143** |
| Stddev | .00013 | .00095 |
| %RSD | 4.7969 | 66.596 |
| #1 | .00285 | .00211 |
| #2 | .00266 | .00076 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5976.1** | **75793.** | **4355.2** |
| Stddev | 13.5 | 105. | 34.0 |
| %RSD | .22508 | .13793 | .78115 |
| #1 | 5985.6 | 75867. | 4379.3 |
| #2 | 5966.6 | 75719. | 4331.2 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 5:19:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01191** | **.10104** | F **.01969** | **.10663** | **.00945** | **.00094** | **.10547** | **.18319** | **.00496** | **.01089** | **.01028** | **.01267** |
| Stddev | .00076 | .00015 | .00021 | .00062 | .00011 | .00007 | .00221 | .00012 | .00022 | .00015 | .00008 | .00004 |
| %RSD | 6.3955 | .14919 | 1.0504 | .58604 | 1.1430 | 7.2401 | 2.0976 | .06441 | 4.4187 | 1.3583 | .82099 | .32359 |
| #1 | .01137 | .10093 | .01983 | .10619 | .00952 | .00098 | .10704 | .18311 | .00481 | .01079 | .01022 | .01270 |
| #2 | .01245 | .10115 | .01954 | .10708 | .00937 | .00089 | .10391 | .18327 | .00512 | .01099 | .01034 | .01264 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | | |
| Range | | | 30.000% | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08181** | **3.2528** | F **.00675** | **.20093** | **.01023** | **.01872** | **.99769** | **.04084** | **3.0121** | **.00890** | **-.02163** | **.00942** |
| Stddev | .00209 | .0440 | .00271 | .00026 | .00001 | .00019 | .00154 | .00032 | .0067 | .00072 | .00153 | .00080 |
| %RSD | 2.5562 | 1.3530 | 40.202 | .12919 | .10637 | .99005 | .15450 | .78114 | .22400 | 8.0456 | 7.0568 | 8.5084 |
| #1 | .08329 | 3.2217 | .00867 | .20111 | .01022 | .01859 | .99660 | .04107 | 3.0073 | .00940 | -.02270 | .00885 |
| #2 | .08033 | 3.2839 | .00483 | .20075 | .01024 | .01885 | .99878 | .04062 | 3.0169 | .00839 | -.02055 | .00998 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .01000 | | | | | | | | | |
| Range | | | -30.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01600** | **.44724** | **.09647** | **.01042** | **.01771** | **.00987** | **.01562** | F **.04062** | **.00867** | **.02247** | **.01568** |
| Stddev | .00289 | .00127 | .00012 | .00027 | .00080 | .00011 | .00131 | .01308 | .00023 | .00022 | .00289 |
| %RSD | 18.046 | .28393 | .12223 | 2.5698 | 4.5423 | 1.1456 | 8.4123 | 32.201 | 2.7057 | .97834 | 18.445 |
| #1 | .01396 | .44634 | .09638 | .01061 | .01714 | .00995 | .01469 | .03137 | .00851 | .02262 | .01363 |
| #2 | .01805 | .44813 | .09655 | .01023 | .01828 | .00979 | .01655 | .04986 | .00884 | .02231 | .01772 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .06000 | | | |
| Range | | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6020.0** | **76298.** | **4388.6** |
| Stddev | 3.9 | 115. | 30.4 |
| %RSD | .06485 | .15007 | .69374 |
| #1 | 6022.8 | 76217. | 4367.1 |
| #2 | 6017.2 | 76379. | 4410.1 |

Sample Name: 280-42191-A-17-A  Acquired: 5/17/2013 5:22:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00213** | **.00589** | **.00235** | **.09236** | **.04802** | **-.00012** | **-.00180** | **78.672** | **.00010** |
| Stddev | .00038 | .00006 | .00279 | .00040 | .00035 | .00010 | .00079 | .275 | .00013 |
| %RSD | 17.687 | .97487 | 118.91 | .43257 | .72591 | 81.220 | 43.724 | .34903 | 135.54 |
| #1 | .00240 | .00585 | .00432 | .09208 | .04827 | -.00019 | -.00235 | 78.866 | .00000 |
| #2 | .00186 | .00593 | .00037 | .09264 | .04777 | -.00005 | -.00124 | 78.478 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00061** | **.00076** | **.01411** | **1.3632** | **-.00052** | **30.183** | **.01341** | **.00044** |
| Stddev | .00000 | .00006 | .00032 | .00108 | .0132 | .00082 | .018 | .00007 | .00027 |
| %RSD | .42942 | 9.2221 | 41.383 | 7.6334 | .96824 | 157.28 | .05800 | .50634 | 62.263 |
| #1 | .00050 | .00064 | .00054 | .01335 | 1.3725 | -.00110 | 30.195 | .01337 | .00063 |
| #2 | .00049 | .00057 | .00098 | .01487 | 1.3538 | .00006 | 30.171 | .01346 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.8150** | **.00106** | **.17471** | **.00232** | **7.6559** | **-.00170** | **.00058** | **3.8237** | **.00041** |
| Stddev | .0272 | .00012 | .00118 | .00085 | .0383 | .00008 | .00103 | .0027 | .00038 |
| %RSD | .39941 | 11.485 | .67326 | 36.889 | .50079 | 4.8799 | 178.42 | .07202 | 90.717 |
| #1 | 6.8343 | .00098 | .17554 | .00171 | 7.6288 | -.00165 | -.00015 | 3.8256 | .00015 |
| #2 | 6.7958 | .00115 | .17387 | .00292 | 7.6830 | -.00176 | .00130 | 3.8217 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19649** | **.00203** | **-.00001** | **.00038** | W **-.08046** | **-.00096** | **.02175** | **.00547** |
| Stddev | .00066 | .00057 | .00021 | .00091 | .01764 | .00016 | .00017 | .00151 |
| %RSD | .33359 | 28.176 | 1955.5 | 239.10 | 21.922 | 17.214 | .78878 | 27.716 |
| #1 | .19695 | .00163 | .00013 | .00102 | -.09293 | -.00107 | .02163 | .00654 |
| #2 | .19603 | .00243 | -.00016 | -.00026 | -.06799 | -.00084 | .02187 | .00439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5821.2** | **74186.** | **4344.2** |
| Stddev | 1.1 | 55. | 16.8 |
| %RSD | .01886 | .07346 | .38726 |
| #1 | 5820.5 | 74224. | 4332.3 |
| #2 | 5822.0 | 74147. | 4356.0 |

Sample Name: sd 42191-A-17-A@5 Acquired: 5/17/2013 5:24:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.00317** | **.00296** | **.02002** | **.00888** | **-.00009** | **.00006** | **16.019** | **.00010** |
| Stddev | .00036 | .00030 | .00103 | .00032 | .00010 | .00007 | .00108 | .051 | .00005 |
| %RSD | 19.405 | 9.4109 | 34.630 | 1.5905 | 1.1398 | 85.428 | 1872.0 | .31678 | 45.460 |
| #1 | .00162 | .00296 | .00224 | .02024 | .00881 | -.00014 | -.00070 | 16.054 | .00014 |
| #2 | .00214 | .00338 | .00369 | .01979 | .00896 | -.00003 | .00082 | 15.983 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00035** | **-.00128** | **.00772** | **.23680** | **-.00464** | **6.1577** | **.00278** | **-.00030** |
| Stddev | .00016 | .00009 | .00047 | .00011 | .00014 | .00173 | .0068 | .00002 | .00007 |
| %RSD | 140.50 | 26.251 | 37.124 | 1.3740 | .06019 | 37.310 | .10986 | .75720 | 23.734 |
| #1 | .00023 | .00041 | -.00094 | .00765 | .23670 | -.00342 | 6.1625 | .00277 | -.00025 |
| #2 | .00000 | .00028 | -.00161 | .00780 | .23690 | -.00587 | 6.1529 | .00280 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3307** | **.00041** | **.03629** | **.00141** | **1.5050** | **-.00018** | **-.00021** | **.75040** | **.00002** |
| Stddev | .0165 | .00009 | .00162 | .00027 | .0032 | .00078 | .00056 | .00794 | .00024 |
| %RSD | 1.2376 | 22.907 | 4.4610 | 19.241 | .21400 | 430.21 | 269.88 | 1.0580 | 1498.4 |
| #1 | 1.3423 | .00048 | .03514 | .00122 | 1.5073 | .00037 | -.00060 | .74478 | .00018 |
| #2 | 1.3190 | .00034 | .03743 | .00160 | 1.5027 | -.00074 | .00019 | .75601 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04029** | **.00019** | **-.00028** | **-.00011** | **-.03403** | **-.00087** | **.00847** | **.00401** |
| Stddev | .00006 | .00158 | .00030 | .00014 | .00178 | .00005 | .00018 | .00040 |
| %RSD | .14658 | 824.45 | 108.86 | 124.58 | 5.2175 | 6.0908 | 2.1659 | 9.8722 |
| #1 | .04025 | .00131 | -.00006 | -.00001 | -.03277 | -.00091 | .00860 | .00429 |
| #2 | .04033 | -.00093 | -.00049 | -.00021 | -.03528 | -.00084 | .00835 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5948.7** | **75347.** | **4374.9** |
| Stddev | 9.7 | 17. | 30.7 |
| %RSD | .16297 | .02197 | .70213 |
| #1 | 5955.6 | 75336. | 4353.1 |
| #2 | 5941.9 | 75359. | 4396.6 |

Sample Name: 280-42191-A-17-B MS Acquired: 5/17/2013 5:27:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05469** | **1.9176** | **.99824** | **1.1568** | **2.1300** | **.04655** | **2.0396** | **126.08** | **.10329** |
| Stddev | .00002 | .0046 | .00397 | .0009 | .0046 | .00008 | .0029 | .44 | .00025 |
| %RSD | .04506 | .23851 | .39805 | .07885 | .21394 | .17288 | .14296 | .35258 | .24330 |
| #1 | .05467 | 1.9209 | .99543 | 1.1561 | 2.1268 | .04661 | 2.0417 | 125.77 | .10347 |
| #2 | .05471 | 1.9144 | 1.0010 | 1.1574 | 2.1332 | .04650 | 2.0376 | 126.40 | .10311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50063** | **.19732** | **.24463** | **.86423** | **55.924** | **1.0829** | **78.376** | **.50590** | **.97095** |
| Stddev | .00014 | .00015 | .00048 | .00263 | .155 | .0057 | .042 | .00053 | .00080 |
| %RSD | .02701 | .07626 | .19636 | .30475 | .27626 | .52546 | .05387 | .10425 | .08196 |
| #1 | .50072 | .19742 | .24497 | .86609 | 55.815 | 1.0789 | 78.406 | .50553 | .97039 |
| #2 | .50053 | .19721 | .24429 | .86236 | 56.033 | 1.0870 | 78.346 | .50628 | .97152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **63.896** | **.48563** | **10.669** | **.49921** | **7.8921** | **.51495** | **2.1012** | **12.823** | **1.9051** |
| Stddev | .150 | .00001 | .017 | .00041 | .0111 | .00079 | .0011 | .051 | .0034 |
| %RSD | .23412 | .00230 | .15850 | .08277 | .14059 | .15418 | .05187 | .40017 | .17679 |
| #1 | 63.790 | .48562 | 10.681 | .49951 | 7.9000 | .51439 | 2.1004 | 12.859 | 1.9027 |
| #2 | 64.002 | .48564 | 10.657 | .49892 | 7.8843 | .51551 | 2.1020 | 12.786 | 1.9075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2521** | **1.0461** | **1.0073** | **1.9225** | **2.0155** | **.49182** | **.47909** | **.46795** |
| Stddev | .0046 | .0026 | .0007 | .0019 | .0208 | .00143 | .00032 | .00708 |
| %RSD | .37087 | .25169 | .06844 | .10119 | 1.0331 | .29104 | .06746 | 1.5130 |
| #1 | 1.2488 | 1.0479 | 1.0068 | 1.9238 | 2.0302 | .49081 | .47932 | .47296 |
| #2 | 1.2554 | 1.0442 | 1.0078 | 1.9211 | 2.0008 | .49283 | .47886 | .46294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5694.6** | **72722.** | **4279.1** |
| Stddev | .7 | 155. | 26.5 |
| %RSD | .01283 | .21255 | .62033 |
| #1 | 5694.0 | 72613. | 4297.9 |
| #2 | 5695.1 | 72831. | 4260.3 |

Sample Name: 280-42191-A-17-C MSD Acquired: 5/17/2013 5:29:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05546** | **1.9322** | **1.0103** | **1.1696** | **2.1440** | **.04691** | **2.0581** | **125.29** | **.10421** |
| Stddev | .00019 | .0032 | .0007 | .0001 | .0042 | .00015 | .0045 | .41 | .00015 |
| %RSD | .34285 | .16740 | .07337 | .00606 | .19528 | .32765 | .22026 | .32838 | .13999 |
| #1 | .05560 | 1.9345 | 1.0098 | 1.1696 | 2.1410 | .04701 | 2.0549 | 125.00 | .10411 |
| #2 | .05533 | 1.9299 | 1.0109 | 1.1695 | 2.1469 | .04680 | 2.0613 | 125.58 | .10432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50637** | **.19847** | **.24784** | **.86220** | **56.018** | **1.0839** | **78.567** | **.51131** | **.98220** |
| Stddev | .00126 | .00005 | .00106 | .00254 | .200 | .0039 | .177 | .00116 | .00119 |
| %RSD | .24828 | .02532 | .42835 | .29418 | .35772 | .35971 | .22576 | .22592 | .12080 |
| #1 | .50725 | .19844 | .24709 | .86400 | 55.876 | 1.0811 | 78.442 | .51049 | .98304 |
| #2 | .50548 | .19851 | .24859 | .86041 | 56.159 | 1.0866 | 78.692 | .51212 | .98136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **63.922** | **.48925** | **10.779** | **.49923** | **7.8378** | **.52490** | **2.1153** | **12.841** | **1.9273** |
| Stddev | .125 | .00070 | .003 | .00042 | .0174 | .00070 | .0107 | .010 | .0047 |
| %RSD | .19631 | .14289 | .02419 | .08435 | .22149 | .13411 | .50839 | .07582 | .24222 |
| #1 | 63.833 | .48974 | 10.781 | .49953 | 7.8501 | .52540 | 2.1229 | 12.834 | 1.9306 |
| #2 | 64.010 | .48875 | 10.777 | .49893 | 7.8255 | .52441 | 2.1077 | 12.848 | 1.9240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2565** | **1.0594** | **1.0221** | **1.9354** | **2.0534** | **.49624** | **.48190** | **.47159** |
| Stddev | .0051 | .0002 | .0036 | .0041 | .0375 | .00150 | .00015 | .00354 |
| %RSD | .40878 | .02188 | .35307 | .21059 | 1.8262 | .30202 | .03150 | .75154 |
| #1 | 1.2528 | 1.0595 | 1.0195 | 1.9383 | 2.0269 | .49518 | .48179 | .46908 |
| #2 | 1.2601 | 1.0592 | 1.0246 | 1.9325 | 2.0799 | .49730 | .48200 | .47409 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5696.8** | **72729.** | **4309.2** |
| Stddev | 1.4 | 129. | 14.3 |
| %RSD | .02474 | .17725 | .33155 |
| #1 | 5695.8 | 72820. | 4319.3 |
| #2 | 5697.8 | 72638. | 4299.1 |

Sample Name: 280-42191-A-18-A  Acquired: 5/17/2013 5:31:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00193** | **.23673** | **.00272** | **.08602** | **.09839** | **-.00002** | **-.00233** | **112.52** | **.00066** |
| Stddev | .00025 | .00379 | .00210 | .00041 | .00028 | .00001 | .00272 | .15 | .00027 |
| %RSD | 12.778 | 1.6026 | 77.256 | .47245 | .28677 | 55.373 | 116.98 | .13313 | 39.901 |
| #1 | .00175 | .23405 | .00123 | .08631 | .09859 | -.00003 | -.00425 | 112.63 | .00085 |
| #2 | .00210 | .23941 | .00420 | .08574 | .09819 | -.00001 | -.00040 | 112.42 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00082** | **.00257** | **.33450** | **4.6977** | **.00895** | **26.634** | **.00715** | **.00636** |
| Stddev | .00029 | .00017 | .00033 | .00407 | .0421 | .00292 | .070 | .00002 | .00011 |
| %RSD | 44.949 | 20.259 | 12.834 | 1.2176 | .89568 | 32.681 | .26419 | .30417 | 1.7807 |
| #1 | .00085 | .00070 | .00281 | .33162 | 4.6680 | .00688 | 26.584 | .00716 | .00644 |
| #2 | .00044 | .00093 | .00234 | .33738 | 4.7275 | .01101 | 26.683 | .00713 | .00628 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.259** | **.00282** | **.19622** | **.00338** | **27.251** | **-.00110** | **.00215** | **6.0625** | **.00079** |
| Stddev | .186 | .00023 | .00034 | .00143 | .033 | .00219 | .00222 | .0036 | .00057 |
| %RSD | 1.4049 | 8.1664 | .17324 | 42.354 | .12087 | 198.69 | 102.99 | .05926 | 73.102 |
| #1 | 13.391 | .00266 | .19646 | .00439 | 27.275 | -.00266 | .00372 | 6.0650 | .00038 |
| #2 | 13.128 | .00298 | .19598 | .00237 | 27.228 | .00045 | .00058 | 6.0599 | .00119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28389** | **.00227** | **.00533** | **-.00029** | **-.03182** | **-.00063** | **.01528** | **.00372** |
| Stddev | .00018 | .00098 | .00034 | .00005 | .00961 | .00042 | .00001 | .00106 |
| %RSD | .06303 | 43.224 | 6.4617 | 16.602 | 30.210 | 66.769 | .06663 | 28.373 |
| #1 | .28401 | .00158 | .00509 | -.00032 | -.02502 | -.00034 | .01529 | .00298 |
| #2 | .28376 | .00297 | .00557 | -.00026 | -.03861 | -.00093 | .01527 | .00447 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5798.1** | **74179.** | **4361.8** |
| Stddev | 12.7 | 14. | 8.1 |
| %RSD | .21824 | .01825 | .18541 |
| #1 | 5789.1 | 74188. | 4356.1 |
| #2 | 5807.0 | 74169. | 4367.5 |

Sample Name: 280-42191-A-19-A  Acquired: 5/17/2013 5:34:02  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00173** | **.00551** | **.00237** | **.16484** | **.08949** | **-.00006** | **-.00407** | **104.31** | **.00016** |
| Stddev | .00044 | .00062 | .00293 | .00037 | .00052 | .00008 | .00120 | 1.36 | .00010 |
| %RSD | 25.511 | 11.307 | 123.66 | .22663 | .58382 | 127.49 | 29.555 | 1.3061 | 61.019 |
| #1 | .00142 | .00595 | .00030 | .16510 | .08912 | -.00001 | -.00492 | 103.35 | .00023 |
| #2 | .00204 | .00507 | .00445 | .16458 | .08986 | -.00012 | -.00322 | 105.27 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **.00059** | **-.00075** | **.42459** | **2.0405** | **.01706** | **37.040** | **.16722** | **.00954** |
| Stddev | .00012 | .00001 | .00018 | .00636 | .0131 | .00110 | .041 | .00023 | .00044 |
| %RSD | 19.706 | 1.8768 | 23.688 | 1.4988 | .64034 | 6.4683 | .11128 | .13981 | 4.5648 |
| #1 | .00069 | .00058 | -.00088 | .42009 | 2.0313 | .01628 | 37.011 | .16705 | .00923 |
| #2 | .00052 | .00060 | -.00063 | .42909 | 2.0497 | .01784 | 37.069 | .16738 | .00985 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **33.647** | **.00186** | **.18305** | **.00228** | **20.654** | **.00056** | **-.00047** | **6.5345** | **.00016** |
| Stddev | .022 | .00034 | .00144 | .00077 | .019 | .00072 | .00484 | .0197 | .00019 |
| %RSD | .06446 | 18.516 | .78431 | 33.648 | .09062 | 128.24 | 1026.0 | .30177 | 118.80 |
| #1 | 33.663 | .00161 | .18204 | .00174 | 20.668 | .00107 | .00295 | 6.5206 | .00029 |
| #2 | 33.632 | .00210 | .18407 | .00282 | 20.641 | .00005 | -.00389 | 6.5484 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24101** | **.00130** | **.00083** | **.00047** | **-.04388** | **-.00065** | **.06839** | **.00053** |
| Stddev | .00239 | .00081 | .00014 | .00100 | .00041 | .00010 | .00110 | .00110 |
| %RSD | .98998 | 62.344 | 17.424 | 214.94 | .93070 | 15.499 | 1.6149 | 209.01 |
| #1 | .23932 | .00073 | .00073 | .00118 | -.04417 | -.00072 | .06761 | -.00025 |
| #2 | .24270 | .00187 | .00093 | -.00024 | -.04360 | -.00058 | .06917 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5787.3** | **74469.** | **4326.6** |
| Stddev | 4.9 | 146. | 51.0 |
| %RSD | .08395 | .19539 | 1.1791 |
| #1 | 5783.8 | 74572. | 4362.7 |
| #2 | 5790.7 | 74366. | 4290.5 |

Sample Name: 280-42191-A-20-A  Acquired: 5/17/2013 5:36:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174341 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00169** | **.00620** | **.00186** | **9.1524** | **.03309** | **-.00003** | **-.00316** | **116.52** | **.00022** |
| Stddev | .00017 | .00032 | .00237 | .0070 | .00047 | .00008 | .00020 | .64 | .00018 |
| %RSD | 10.245 | 5.2294 | 127.81 | .07675 | 1.4177 | 283.00 | 6.3135 | .54643 | 83.754 |
| #1 | .00157 | .00597 | .00354 | 9.1474 | .03342 | -.00008 | -.00302 | 116.97 | .00009 |
| #2 | .00182 | .00643 | .00018 | 9.1574 | .03276 | .00003 | -.00331 | 116.07 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01829** | **.00084** | **-.00020** | **.03353** | **2.0008** | **.04464** | **42.081** | **.00820** | **.04554** |
| Stddev | .00005 | .00009 | .00018 | .00113 | .0286 | .00335 | .089 | .00001 | .00044 |
| %RSD | .29013 | 10.484 | 91.056 | 3.3583 | 1.4318 | 7.5094 | .21113 | .17273 | .95606 |
| #1 | .01825 | .00078 | -.00033 | .03273 | 1.9806 | .04701 | 42.144 | .00819 | .04523 |
| #2 | .01833 | .00090 | -.00007 | .03432 | 2.0211 | .04227 | 42.018 | .00821 | .04585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **100.20** | **.00302** | **.18770** | **.00171** | **77.688** | **-.00108** | **-.00103** | **5.9881** | **.00023** |
| Stddev | .42 | .00003 | .00165 | .00017 | .133 | .00164 | .00031 | .0372 | .00041 |
| %RSD | .41526 | .95694 | .87832 | 9.6373 | .17147 | 151.49 | 30.171 | .62137 | 177.83 |
| #1 | 99.907 | .00304 | .18654 | .00160 | 77.593 | .00008 | -.00081 | 5.9618 | -.00006 |
| #2 | 100.50 | .00300 | .18887 | .00183 | 77.782 | -.00224 | -.00124 | 6.0145 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97816** | **.00280** | **.00048** | **-.00047** | W **-.05270** | **-.00087** | **.00648** | **.00093** |
| Stddev | .00432 | .00120 | .00015 | .00021 | .07301 | .00038 | .00033 | .00056 |
| %RSD | .44143 | 42.747 | 31.510 | 45.812 | 138.54 | 43.461 | 5.0673 | 60.547 |
| #1 | .98122 | .00195 | .00037 | -.00062 | -.00107 | -.00060 | .00672 | .00053 |
| #2 | .97511 | .00364 | .00059 | -.00032 | -.10433 | -.00114 | .00625 | .00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5786.3** | **74317.** | **4330.2** |
| Stddev | 37.0 | 279. | 29.4 |
| %RSD | .63986 | .37569 | .67789 |
| #1 | 5760.2 | 74120. | 4309.4 |
| #2 | 5812.5 | 74515. | 4350.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 5:38:51 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01152** | **46.908** | k **.00145** | **.01553** | k **-.00063** | k **.00001** | k **.95610** | k **-.01114** | k **-.00086** | k **.00244** | k **.00057** | k **.00782** |
| Stddev | .00079 | .353 | .00163 | .00159 | .00039 | .00001 | .00160 | .00776 | .00006 | .00025 | .00016 | .00025 |
| %RSD | 6.8173 | .75322 | 112.57 | 10.268 | 62.554 | 63.964 | .16688 | 69.720 | 6.9197 | 10.061 | 27.689 | 3.1616 |
| #1 | k .01207 | 47.158 | k .00260 | .01666 | k -.00035 | k .00000 | k .95497 | k -.00565 | k -.00091 | k .00227 | k .00046 | k .00799 |
| #2 | k .01096 | 46.658 | k .00030 | .01440 | k -.00091 | k .00001 | k .95723 | k -.01663 | k -.00082 | k .00262 | k .00068 | k .00764 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.383** | **.06071** | k **-.00345** | k **-.19303** | **-.00019** | **-.00242** | **268.11** | **.00142** | **.00813** | k **.00755** | **5.0281** | k **-.02341** |
| Stddev | .116 | .03370 | .00036 | .00249 | .00005 | .00010 | 1.85 | .00002 | .00139 | .00002 | .0042 | .00129 |
| %RSD | .26087 | 55.506 | 10.553 | 1.2888 | 27.804 | 4.1892 | .69053 | 1.4120 | 17.056 | .26437 | .08414 | 5.5298 |
| #1 | k 44.301 | .03688 | k -.00371 | k -.19127 | -.00015 | -.00235 | 269.42 | .00141 | .00715 | k .00756 | 5.0251 | k -.02433 |
| #2 | k 44.465 | .08454 | k -.00319 | k -.19479 | -.00023 | -.00249 | 266.80 | .00144 | .00911 | k .00753 | 5.0311 | k -.02249 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01229** | k **.00993** | k **.00146** | **.00052** | k **5.3565** | k **.01665** | k **-.00444** | k **9.8224** | k **-.00052** | k **.00320** | k **.19845** |
| Stddev | .00239 | .01226 | .00054 | .00004 | .0168 | .00015 | .00065 | .0196 | .00034 | .00030 | .00178 |
| %RSD | 19.480 | 123.53 | 37.132 | 8.2293 | .31312 | .87258 | 14.572 | .19918 | 65.732 | 9.4687 | .89758 |
| #1 | k -.01060 | k .00126 | k .00107 | .00055 | k 5.3446 | k .01675 | k -.00490 | k 9.8085 | k -.00028 | .00342 | k .19971 |
| #2 | k -.01399 | k .01860 | k .00184 | .00049 | k 5.3683 | k .01655 | k -.00398 | k 9.8362 | k -.00076 | k .00299 | k .19719 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5932.7** | **74922.** | **4470.7** |
| Stddev | 9.5 | 160. | 23.9 |
| %RSD | .15967 | .21342 | .53365 |
| #1 | 5926.0 | 74809. | 4453.8 |
| #2 | 5939.4 | 75035. | 4487.6 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 5:41:15 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51308** | **.50012** | **.98866** | **.53064** | **.51690** | **.45799** | **.00258** | **4.7406** | **.50391** | **.51369** | **.49141** | **.48712** |
| Stddev | .00056 | .00012 | .00109 | .00081 | .00215 | .00196 | .00026 | .0058 | .00057 | .00005 | .00057 | .00048 |
| %RSD | .10981 | .02438 | .10989 | .15190 | .41668 | .42885 | 9.8740 | .12177 | .11274 | .00961 | .11605 | .09948 |
| #1 | .51348 | .50004 | .98943 | .53121 | .51842 | .45938 | .00276 | 4.7446 | .50431 | .51365 | .49181 | .48678 |
| #2 | .51268 | .50021 | .98789 | .53007 | .51538 | .45660 | .00240 | 4.7365 | .50350 | .51372 | .49100 | .48746 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1568** | **53.422** | **1.0684** | **19.188** | **.50204** | **.48128** | **5.0331** | **.49902** | **1.0143** | **1.0105** | **-.02480** | **1.0192** |
| Stddev | .0131 | .294 | .0040 | .049 | .00118 | .00054 | .0240 | .00015 | .0028 | .0028 | .00018 | .0001 |
| %RSD | .60916 | .54995 | .37807 | .25736 | .23427 | .11177 | .47646 | .02950 | .27407 | .28001 | .72941 | .00848 |
| #1 | 2.1661 | 53.630 | 1.0712 | 19.153 | .50121 | .48166 | 5.0501 | .49913 | 1.0163 | 1.0085 | -.02493 | 1.0191 |
| #2 | 2.1475 | 53.214 | 1.0655 | 19.222 | .50287 | .48090 | 5.0161 | .49892 | 1.0123 | 1.0125 | -.02467 | 1.0192 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0355** | F **4.3915** | **.95934** | **.52857** | **.00393** | **.50224** | **.97127** | **-.04585** | **.48480** | **.47791** | **.48053** |
| Stddev | .0034 | .0399 | .00304 | .00174 | .00055 | .00129 | .00272 | .00143 | .00175 | .00184 | .00055 |
| %RSD | .32724 | .90789 | .31678 | .32909 | 13.940 | .25680 | .28040 | 3.1172 | .36081 | .38431 | .11529 |
| #1 | 1.0379 | 4.4197 | .96149 | .52980 | .00354 | .50132 | .97319 | -.04686 | .48357 | .47661 | .48092 |
| #2 | 1.0331 | 4.3633 | .95719 | .52734 | .00432 | .50315 | .96934 | -.04484 | .48604 | .47921 | .48014 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5968.6** | **76138.** | **4447.9** |
| Stddev | 13.1 | 95. | 22.8 |
| %RSD | .21965 | .12500 | .51308 |
| #1 | 5977.9 | 76205. | 4431.7 |
| #2 | 5959.4 | 76071. | 4464.0 |

Sample Name: CCB Acquired: 5/17/2013 5:43:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00226** | **-.00024** | **.00341** | F **.00518** | W **-.00084** | **-.00000** | **.00267** | **-.00849** | **-.00011** | **.00029** | **.00046** |
| Stddev | .00003 | .00042 | .00134 | .00024 | .00019 | .00001 | .00060 | .00195 | .00008 | .00024 | .00000 |
| %RSD | 1.2555 | 173.12 | 39.387 | 4.7154 | 22.985 | 178.56 | 22.351 | 23.027 | 70.240 | 85.052 | .20407 |
| #1 | .00228 | .00005 | .00246 | .00535 | -.00070 | -.00001 | .00309 | -.00711 | -.00006 | .00046 | .00046 |
| #2 | .00224 | -.00054 | .00436 | .00501 | -.00098 | .00000 | .00225 | -.00987 | -.00017 | .00011 | .00046 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00180 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00132** | **-.00377** | **.07981** | F **-.00650** | **.00125** | **-.00004** | **-.00038** | **-.03442** | **.00023** | **.00104** | **.00007** |
| Stddev | .00030 | .00135 | .00104 | .00028 | .00034 | .00002 | .00023 | .01321 | .00035 | .00141 | .00052 |
| %RSD | 22.463 | 35.665 | 1.3043 | 4.2490 | 26.916 | 46.725 | 60.598 | 38.362 | 155.85 | 136.40 | 792.77 |
| #1 | -.00153 | -.00282 | .08055 | -.00670 | .00149 | -.00006 | -.00055 | -.04376 | .00048 | .00204 | .00044 |
| #2 | -.00111 | -.00472 | .07908 | -.00631 | .00102 | -.00003 | -.00022 | -.02509 | -.00002 | .00004 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | | | | |
| Low Limit | | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02404** | **-.00207** | **.00150** | **.00492** | **.00050** | **-.00001** | **-.00012** | **-.00026** | **.00010** | **-.01962** | **-.00076** |
| Stddev | .00125 | .00295 | .00094 | .01369 | .00013 | .00021 | .00044 | .00032 | .00106 | .01975 | .00033 |
| %RSD | 5.2105 | 142.68 | 62.581 | 278.37 | 26.332 | 1752.9 | 349.77 | 122.10 | 1025.0 | 100.65 | 43.190 |
| #1 | -.02315 | -.00416 | .00217 | -.00476 | .00041 | .00014 | -.00043 | -.00004 | .00085 | -.00566 | -.00100 |
| #2 | -.02492 | .00002 | .00084 | .01460 | .00060 | -.00016 | .00018 | -.00049 | -.00065 | -.03359 | -.00053 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00224** | **.00169** |
| Stddev | .00050 | .00182 |
| %RSD | 22.396 | 107.73 |
| #1 | .00189 | .00040 |
| #2 | .00260 | .00298 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6060.6** | **77451.** | **4404.1** |
| Stddev | 1.8 | 161. | 51.8 |
| %RSD | .03049 | .20749 | 1.1762 |
| #1 | 6061.9 | 77337. | 4367.5 |
| #2 | 6059.3 | 77564. | 4440.8 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 5:46:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01277** | **.10281** | **.01747** | **.11097** | **.00975** | **.00093** | **.10904** | **.18796** | **.00495** | **.01088** | **.01034** |
| Stddev | .00056 | .00107 | .00089 | .00053 | .00006 | .00006 | .00020 | .00617 | .00007 | .00003 | .00007 |
| %RSD | 4.3897 | 1.0367 | 5.0948 | .47718 | .59473 | 6.2151 | .18615 | 3.2847 | 1.4417 | .29067 | .69336 |
| #1 | .01317 | .10206 | .01810 | .11060 | .00979 | .00089 | .10890 | .19233 | .00490 | .01086 | .01039 |
| #2 | .01237 | .10356 | .01684 | .11135 | .00971 | .00097 | .10919 | .18360 | .00500 | .01090 | .01029 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01342** | **.08518** | **3.2837** | **.00914** | **.20251** | **.01024** | **.01877** | **.98949** | **.04153** | **3.0567** | **.01002** |
| Stddev | .00004 | .00277 | .0870 | .00010 | .00100 | .00009 | .00028 | .00228 | .00015 | .0009 | .00119 |
| %RSD | .29425 | 3.2465 | 2.6490 | 1.1020 | .49564 | .89836 | 1.4823 | .23088 | .37277 | .02884 | 11.917 |
| #1 | .01340 | .08322 | 3.3452 | .00907 | .20322 | .01031 | .01897 | .99111 | .04164 | 3.0573 | .00917 |
| #2 | .01345 | .08713 | 3.2222 | .00922 | .20180 | .01018 | .01858 | .98788 | .04142 | 3.0561 | .01086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02442** | F **.00654** | W **.01873** | **.43128** | **.09762** | **.01063** | **.01772** | **.01037** | **.01564** | W **.04309** | **.00812** |
| Stddev | .00087 | .00135 | .00214 | .01377 | .00037 | .00001 | .00003 | .00043 | .00031 | .00766 | .00007 |
| %RSD | 3.5519 | 20.636 | 11.448 | 3.1930 | .37523 | .13900 | .15512 | 4.1326 | 2.0070 | 17.765 | .89446 |
| #1 | -.02503 | .00749 | .02024 | .44102 | .09788 | .01062 | .01774 | .01006 | .01542 | .03768 | .00817 |
| #2 | -.02381 | .00558 | .01721 | .42155 | .09736 | .01064 | .01770 | .01067 | .01586 | .04851 | .00807 |
| Check ? | None | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | .01000 | .01500 | | | | | | | .06000 | |
| Range | | -30.000% | 20.000% | | | | | | | -20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02251** | **.01638** |
| Stddev | .00007 | .00072 |
| %RSD | .32307 | 4.3853 |
| #1 | .02256 | .01588 |
| #2 | .02246 | .01689 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6082.5** | **77776.** | **4408.8** |
| Stddev | 4.9 | 368. | 3.8 |
| %RSD | .08033 | .47307 | .08701 |
| #1 | 6086.0 | 77516. | 4406.1 |
| #2 | 6079.1 | 78036. | 4411.6 |

Sample Name: MB 280-173876/1-A Acquired: 5/17/2013 5:48:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00210** | **.00439** | W **.00621** | F **.00420** | W **-.00077** | **.00001** | **-.00082** | **.00991** | **-.00002** |
| Stddev | .00036 | .00020 | .00206 | .00009 | .00065 | .00011 | .00354 | .00058 | .00024 |
| %RSD | 17.348 | 4.4739 | 33.096 | 2.2251 | 84.618 | 1651.5 | 433.71 | 5.8926 | 1369.0 |
| #1 | .00184 | .00425 | .00767 | .00427 | -.00123 | .00009 | .00169 | .00949 | -.00019 |
| #2 | .00236 | .00453 | .00476 | .00414 | -.00031 | -.00007 | -.00332 | .01032 | .00015 |
| Check ? | Chk Fail | Chk Pass | Chk Warn | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00205 | | .00441 | .00343 | .00058 | | | | |
| Low Limit | -.00205 | | -.00441 | -.00343 | -.00058 | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | W **.00102** | **-.00087** | F **.06091** | **.04861** | F **-.00576** | **.00639** | F **.00065** | **-.00019** |
| Stddev | .00009 | .00013 | .00003 | .00228 | .05073 | .00162 | .00137 | .00000 | .00022 |
| %RSD | 42.365 | 12.512 | 2.9866 | 3.7491 | 104.36 | 28.191 | 21.469 | .21072 | 114.20 |
| #1 | .00027 | .00111 | -.00089 | .06252 | .08448 | -.00691 | .00736 | .00065 | -.00004 |
| #2 | .00014 | .00093 | -.00085 | .05929 | .01274 | -.00461 | .00542 | .00065 | -.00035 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .00066 | | .04840 | | .00574 | | .00056 | |
| Low Limit | | -.00066 | | -.04840 | | -.00574 | | -.00056 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01553** | **.00037** | F **.23819** | **.00046** | **-.02018** | **-.00064** | **-.00069** | W **.03651** | **.00039** |
| Stddev | .00717 | .00006 | .00031 | .00163 | .00121 | .00094 | .00115 | .02159 | .00018 |
| %RSD | 46.199 | 17.045 | .13066 | 350.96 | 5.9964 | 147.57 | 167.42 | 59.125 | 46.905 |
| #1 | -.01045 | .00032 | .23841 | .00162 | -.01932 | -.00131 | -.00151 | .05177 | .00026 |
| #2 | -.02060 | .00041 | .23797 | -.00069 | -.02103 | .00003 | .00013 | .02125 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .02970 | | | | | .03470 | |
| Low Limit | | | -.02970 | | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00344** | **-.00006** | **.00029** | F **-.04365** | W **-.00120** | **.00324** | **.00480** |
| Stddev | .00010 | .00034 | .00005 | .00167 | .00059 | .00018 | .00038 | .00158 |
| %RSD | 147.04 | 9.7518 | 85.086 | 567.75 | 1.3596 | 15.438 | 11.748 | 32.930 |
| #1 | .00013 | .00368 | -.00002 | .00147 | -.04323 | -.00106 | .00297 | .00592 |
| #2 | -.00000 | .00320 | -.00009 | -.00089 | -.04407 | -.00133 | .00351 | .00368 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | .03542 | .00111 | | |
| Low Limit | | | | | -.03542 | -.00111 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6072.0** | **77745.** | **4448.8** |
| Stddev | 4.4 | 237. | 31.3 |
| %RSD | .07179 | .30462 | .70431 |
| #1 | 6068.9 | 77578. | 4426.7 |
| #2 | 6075.1 | 77912. | 4471.0 |

Sample Name: LCS 280-173876/2-A Acquired: 5/17/2013 5:50:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05388** | **1.9276** | **.99922** | **1.0820** | **2.1006** | **.04645** | **2.0500** | **46.393** | **.10304** |
| Stddev | .00019 | .0036 | .00111 | .0012 | .0046 | .00008 | .0053 | .077 | .00005 |
| %RSD | .34633 | .18445 | .11157 | .10621 | .21966 | .18210 | .26064 | .16682 | .05230 |
| #1 | .05375 | 1.9251 | 1.0000 | 1.0812 | 2.0973 | .04639 | 2.0538 | 46.338 | .10300 |
| #2 | .05401 | 1.9301 | .99843 | 1.0828 | 2.1039 | .04651 | 2.0462 | 46.448 | .10308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50524** | **.19762** | **.24411** | F **.86366** | **53.540** | **1.0601** | **47.842** | **.49569** | **.98260** |
| Stddev | .00116 | .00042 | .00048 | .00024 | .070 | .0014 | .144 | .00102 | .00074 |
| %RSD | .23052 | .21260 | .19557 | .02817 | .13000 | .13078 | .30031 | .20655 | .07497 |
| #1 | .50606 | .19791 | .24377 | .86349 | 53.491 | 1.0591 | 47.740 | .49496 | .98312 |
| #2 | .50441 | .19732 | .24445 | .86383 | 53.589 | 1.0611 | 47.944 | .49641 | .98208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.944** | **.48936** | **10.614** | **.50074** | **-.02765** | **.52497** | **2.1105** | F **9.0346** | **1.9576** |
| Stddev | .116 | .00101 | .000 | .00024 | .00261 | .00229 | .0028 | .0305 | .0101 |
| %RSD | .20648 | .20713 | .00259 | .04738 | 9.4372 | .43671 | .13410 | .33769 | .51758 |
| #1 | 55.862 | .49007 | 10.613 | .50091 | -.02950 | .52659 | 2.1125 | 9.0130 | 1.9648 |
| #2 | 56.025 | .48864 | 10.614 | .50058 | -.02581 | .52335 | 2.1085 | 9.0562 | 1.9504 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 11.500 | |
| Low Limit | | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0483** | **1.0409** | **1.0200** | **1.9603** | **2.0300** | **.48954** | **.47306** | **.47739** |
| Stddev | .0025 | .0024 | .0031 | .0115 | .0334 | .00192 | .00137 | .00015 |
| %RSD | .23477 | .23497 | .30290 | .58395 | 1.6468 | .39252 | .28932 | .03178 |
| #1 | 1.0466 | 1.0392 | 1.0178 | 1.9684 | 2.0537 | .48818 | .47209 | .47750 |
| #2 | 1.0501 | 1.0426 | 1.0222 | 1.9522 | 2.0064 | .49090 | .47403 | .47728 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5899.3** | **75899.** | **4389.9** |
| Stddev | 12.8 | 118. | 9.3 |
| %RSD | .21762 | .15591 | .21240 |
| #1 | 5890.2 | 75982. | 4383.3 |
| #2 | 5908.3 | 75815. | 4396.4 |

Sample Name: LCSD 280-173876/3-A Acquired: 5/17/2013 5:53:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05334** | **1.8873** | **.96925** | **1.0639** | **2.0450** | **.04533** | **1.9944** | **45.147** | **.10028** |
| Stddev | .00011 | .0014 | .00336 | .0009 | .0077 | .00017 | .0033 | .216 | .00010 |
| %RSD | .20040 | .07485 | .34648 | .08793 | .37550 | .36747 | .16702 | .47741 | .09985 |
| #1 | .05327 | 1.8863 | .97163 | 1.0632 | 2.0396 | .04545 | 1.9920 | 44.995 | .10035 |
| #2 | .05342 | 1.8883 | .96688 | 1.0646 | 2.0504 | .04521 | 1.9967 | 45.299 | .10021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49342** | **.19193** | **.23751** | F **.84041** | **52.070** | **1.0338** | **46.900** | **.48600** | **.96244** |
| Stddev | .00072 | .00005 | .00034 | .00201 | .287 | .0029 | .010 | .00023 | .00134 |
| %RSD | .14508 | .02562 | .14243 | .23862 | .55123 | .28418 | .02158 | .04649 | .13877 |
| #1 | .49393 | .19189 | .23775 | .83899 | 51.867 | 1.0317 | 46.892 | .48584 | .96339 |
| #2 | .49292 | .19196 | .23727 | .84183 | 52.273 | 1.0359 | 46.907 | .48616 | .96150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.023** | **.47652** | **10.353** | **.48798** | **-.03330** | **.51405** | **2.0530** | F **8.8780** | **1.9102** |
| Stddev | .126 | .00061 | .007 | .00106 | .00021 | .00139 | .0040 | .0150 | .0010 |
| %RSD | .22865 | .12837 | .06990 | .21817 | .62912 | .26990 | .19408 | .16898 | .05497 |
| #1 | 55.112 | .47608 | 10.358 | .48873 | -.03345 | .51307 | 2.0558 | 8.8886 | 1.9094 |
| #2 | 54.934 | .47695 | 10.348 | .48722 | -.03315 | .51503 | 2.0501 | 8.8674 | 1.9109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 11.500 | |
| Low Limit | | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0230** | **1.0211** | **1.0068** | **1.9027** | **1.9682** | **.47927** | **.46510** | **.46972** |
| Stddev | .0050 | .0008 | .0010 | .0002 | .0027 | .00052 | .00021 | .00039 |
| %RSD | .48686 | .07358 | .09450 | .00999 | .13441 | .10864 | .04558 | .08324 |
| #1 | 1.0195 | 1.0216 | 1.0061 | 1.9026 | 1.9701 | .47890 | .46495 | .46944 |
| #2 | 1.0266 | 1.0205 | 1.0075 | 1.9028 | 1.9664 | .47964 | .46525 | .47000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5882.7** | **75391.** | **4450.7** |
| Stddev | .9 | 10. | 2.1 |
| %RSD | .01581 | .01335 | .04830 |
| #1 | 5883.3 | 75398. | 4449.2 |
| #2 | 5882.0 | 75383. | 4452.2 |

Sample Name: 280-42115-C-1-A Acquired: 5/17/2013 5:55:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00192** | **.08350** | **.00842** | **.19572** | **.06313** | **.00004** | **-.00543** | **209.46** | **.00002** |
| Stddev | .00038 | .00025 | .00209 | .00004 | .00019 | .00003 | .00145 | .80 | .00016 |
| %RSD | 19.630 | .29823 | 24.871 | .01941 | .30381 | 56.924 | 26.660 | .37982 | 783.21 |
| #1 | .00219 | .08333 | .00990 | .19570 | .06326 | .00003 | -.00645 | 210.02 | -.00009 |
| #2 | .00165 | .08368 | .00694 | .19575 | .06299 | .00006 | -.00441 | 208.89 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00199** | **.00770** | **.01599** | **11.951** | **.07131** | **.44712** | **.00088** | **.02426** |
| Stddev | .00003 | .00004 | .00030 | .00103 | .048 | .00132 | .00207 | .00003 | .00005 |
| %RSD | 5.8225 | 2.0697 | 3.9446 | 6.4350 | .40043 | 1.8550 | .46324 | 3.4506 | .19623 |
| #1 | .00053 | .00196 | .00748 | .01526 | 11.985 | .07225 | .44859 | .00086 | .02430 |
| #2 | .00049 | .00202 | .00791 | .01672 | 11.917 | .07038 | .44566 | .00090 | .02423 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **31.224** | **.00218** | **.32984** | **.00744** | **138.14** | **.00556** | **.00637** | **19.988** | **.00081** |
| Stddev | .314 | .00028 | .00120 | .00044 | .01 | .00010 | .00258 | .001 | .00006 |
| %RSD | 1.0051 | 12.931 | .36361 | 5.9219 | .00380 | 1.8464 | 40.597 | .00349 | 7.2033 |
| #1 | 31.002 | .00238 | .32899 | .00713 | 138.14 | .00548 | .00819 | 19.988 | .00077 |
| #2 | 31.446 | .00198 | .33068 | .00775 | 138.14 | .00563 | .00454 | 19.987 | .00085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89682** | **.00389** | **.00187** | **.00072** | **-.03256** | **.23824** | **.03731** | **.00382** |
| Stddev | .00249 | .00226 | .00023 | .00194 | .02237 | .00129 | .00031 | .00086 |
| %RSD | .27763 | 58.071 | 12.166 | 270.38 | 68.713 | .53957 | .84197 | 22.621 |
| #1 | .89858 | .00549 | .00171 | .00209 | -.04838 | .23733 | .03709 | .00443 |
| #2 | .89506 | .00229 | .00203 | -.00065 | -.01674 | .23915 | .03753 | .00321 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5932.9** | **76158.** | **4428.9** |
| Stddev | 28.9 | 513. | 62.3 |
| %RSD | .48683 | .67379 | 1.4068 |
| #1 | 5912.5 | 75795. | 4384.9 |
| #2 | 5953.3 | 76520. | 4473.0 |

Sample Name: 280-42115-C-2-A Acquired: 5/17/2013 5:57:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00200** | **.08396** | **.01086** | **.13675** | **.17690** | **-.00003** | **-.00285** | **90.166** | **.00008** |
| Stddev | .00011 | .00011 | .00061 | .00150 | .00229 | .00003 | .00053 | 1.391 | .00006 |
| %RSD | 5.3930 | .13648 | 5.5973 | 1.0944 | 1.2952 | 115.24 | 18.608 | 1.5430 | 77.273 |
| #1 | .00193 | .08388 | .01129 | .13781 | .17852 | -.00005 | -.00322 | 91.150 | .00013 |
| #2 | .00208 | .08404 | .01043 | .13569 | .17528 | -.00000 | -.00247 | 89.183 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00046** | **.00159** | **.01625** | **9.6581** | **.05930** | **9.0355** | **.02786** | **.01561** |
| Stddev | .00013 | .00008 | .00021 | .00010 | .1097 | .00153 | .0029 | .00005 | .00005 |
| %RSD | 39.151 | 16.972 | 13.157 | .58521 | 1.1359 | 2.5877 | .03249 | .17785 | .34600 |
| #1 | .00041 | .00052 | .00174 | .01618 | 9.7356 | .06038 | 9.0334 | .02783 | .01557 |
| #2 | .00023 | .00041 | .00145 | .01631 | 9.5805 | .05821 | 9.0376 | .02790 | .01565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.221** | **.00192** | **.54393** | **.00260** | **61.775** | **.03213** | **.00691** | **6.5408** | **-.00000** |
| Stddev | .461 | .00039 | .00120 | .00015 | .103 | .00072 | .00361 | .0495 | .00075 |
| %RSD | 1.2377 | 20.143 | .22008 | 5.9395 | .16712 | 2.2496 | 52.247 | .75695 | 52607. |
| #1 | 37.547 | .00165 | .54478 | .00250 | 61.848 | .03162 | .00946 | 6.5758 | -.00053 |
| #2 | 36.895 | .00219 | .54308 | .00271 | 61.702 | .03264 | .00436 | 6.5058 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67629** | **.00193** | **.00034** | **-.00031** | **.12443** | **.00445** | **.00442** | **.00281** |
| Stddev | .01050 | .00078 | .00025 | .00091 | .01056 | .00004 | .00027 | .00023 |
| %RSD | 1.5528 | 40.537 | 72.437 | 291.16 | 8.4860 | .92193 | 6.2094 | 8.0365 |
| #1 | .68371 | .00249 | .00017 | -.00095 | .11697 | .00447 | .00422 | .00297 |
| #2 | .66886 | .00138 | .00052 | .00033 | .13190 | .00442 | .00461 | .00265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5965.8** | **76769.** | **4437.2** |
| Stddev | 3.8 | 1019. | .3 |
| %RSD | .06396 | 1.3267 | .00767 |
| #1 | 5968.5 | 76049. | 4437.0 |
| #2 | 5963.2 | 77489. | 4437.5 |

Sample Name: 280-42115-C-3-A Acquired: 5/17/2013 6:00:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00227** | **.77782** | **.00846** | **.04228** | **.02257** | **-.00011** | **-.00342** | **19.043** | **-.00001** |
| Stddev | .00057 | .00217 | .00023 | .00042 | .00003 | .00008 | .00023 | .002 | .00003 |
| %RSD | 25.159 | .27925 | 2.6777 | 1.0032 | .13914 | 71.865 | 6.8335 | .01142 | 295.81 |
| #1 | .00187 | .77936 | .00862 | .04258 | .02259 | -.00017 | -.00359 | 19.044 | -.00003 |
| #2 | .00267 | .77629 | .00830 | .04198 | .02255 | -.00005 | -.00326 | 19.041 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00123** | **.00515** | **.42698** | **10.131** | **.03492** | **7.2284** | **.01981** | **.01529** |
| Stddev | .00016 | .00016 | .00000 | .00497 | .045 | .00091 | .0197 | .00002 | .00020 |
| %RSD | 55.773 | 13.406 | .04098 | 1.1640 | .43997 | 2.6060 | .27230 | .09724 | 1.2831 |
| #1 | .00039 | .00134 | .00515 | .43049 | 10.099 | .03428 | 7.2423 | .01983 | .01515 |
| #2 | .00017 | .00111 | .00515 | .42346 | 10.162 | .03557 | 7.2145 | .01980 | .01543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **38.888** | **.00104** | **1.7387** | **.00298** | **12.239** | **-.00017** | **-.00208** | **6.3234** | **.00018** |
| Stddev | .312 | .00001 | .0037 | .00117 | .022 | .00080 | .00003 | .0421 | .00085 |
| %RSD | .80208 | .69600 | .21175 | 39.146 | .18006 | 476.89 | 1.3522 | .66643 | 483.40 |
| #1 | 39.108 | .00104 | 1.7361 | .00216 | 12.223 | .00040 | -.00206 | 6.2936 | -.00043 |
| #2 | 38.667 | .00105 | 1.7413 | .00381 | 12.255 | -.00074 | -.00210 | 6.3532 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31651** | **.00172** | **.01239** | **-.00123** | **.20071** | **.01333** | **.00760** | **.00230** |
| Stddev | .00001 | .00070 | .00021 | .00071 | .00575 | .00007 | .00028 | .00180 |
| %RSD | .00409 | 40.848 | 1.7188 | 57.502 | 2.8644 | .50896 | 3.7336 | 78.066 |
| #1 | .31650 | .00122 | .01254 | -.00173 | .20478 | .01328 | .00740 | .00103 |
| #2 | .31652 | .00222 | .01224 | -.00073 | .19665 | .01338 | .00780 | .00357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5983.7** | **76671.** | **4448.4** |
| Stddev | 1.7 | 517. | 9.9 |
| %RSD | .02822 | .67433 | .22151 |
| #1 | 5982.5 | 76306. | 4441.4 |
| #2 | 5984.9 | 77037. | 4455.3 |

Sample Name: 280-42115-C-4-A Acquired: 5/17/2013 6:02:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00196** | **.07090** | **.01945** | **.03890** | **.04469** | **-.00007** | **-.00181** | **28.574** | **.00004** |
| Stddev | .00012 | .00083 | .00086 | .00009 | .00078 | .00007 | .00084 | .146 | .00006 |
| %RSD | 6.0683 | 1.1720 | 4.4155 | .23190 | 1.7459 | 95.422 | 46.589 | .51139 | 163.26 |
| #1 | .00205 | .07032 | .02006 | .03897 | .04413 | -.00002 | -.00122 | 28.677 | -.00001 |
| #2 | .00188 | .07149 | .01884 | .03884 | .04524 | -.00012 | -.00241 | 28.471 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00052** | **.00249** | **.05480** | **9.7312** | **.02466** | **8.5005** | **.03516** | **.01551** |
| Stddev | .00004 | .00006 | .00052 | .00005 | .0008 | .00147 | .0175 | .00002 | .00023 |
| %RSD | 12.974 | 12.306 | 20.894 | .08468 | .00871 | 5.9718 | .20601 | .06785 | 1.4929 |
| #1 | .00035 | .00047 | .00286 | .05477 | 9.7306 | .02570 | 8.5129 | .03517 | .01567 |
| #2 | .00029 | .00056 | .00213 | .05483 | 9.7318 | .02362 | 8.4881 | .03514 | .01535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.213** | **.00114** | **2.3301** | **.00261** | **9.3710** | **.06487** | **.00430** | **5.5303** | **-.00045** |
| Stddev | .524 | .00033 | .0020 | .00035 | .0053 | .00052 | .00432 | .0013 | .00014 |
| %RSD | 1.7938 | 28.859 | .08489 | 13.273 | .05708 | .80675 | 100.49 | .02308 | 31.920 |
| #1 | 28.842 | .00138 | 2.3287 | .00285 | 9.3672 | .06450 | .00124 | 5.5312 | -.00035 |
| #2 | 29.584 | .00091 | 2.3315 | .00236 | 9.3748 | .06524 | .00736 | 5.5294 | -.00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35043** | **.00145** | **.00007** | **-.00037** | **.19284** | **.00967** | **.01627** | **.00391** |
| Stddev | .00202 | .00084 | .00029 | .00154 | .00057 | .00014 | .00018 | .00057 |
| %RSD | .57735 | 57.998 | 419.90 | 411.34 | .29662 | 1.3977 | 1.0813 | 14.584 |
| #1 | .35186 | .00205 | -.00014 | -.00146 | .19243 | .00957 | .01639 | .00431 |
| #2 | .34900 | .00086 | .00028 | .00071 | .19324 | .00977 | .01614 | .00350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5969.5** | **77136.** | **4472.8** |
| Stddev | 2.4 | 338. | 28.5 |
| %RSD | .03962 | .43805 | .63704 |
| #1 | 5971.2 | 76897. | 4452.7 |
| #2 | 5967.8 | 77375. | 4493.0 |

Sample Name: 280-42115-C-5-A Acquired: 5/17/2013 6:05:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.02035** | **.00455** | **.71226** | **.05127** | **.00032** | **-.00651** | **275.52** | **.00036** |
| Stddev | .00061 | .00017 | .00148 | .00266 | .00047 | .00001 | .00285 | .77 | .00004 |
| %RSD | 32.447 | .82192 | 32.407 | .37288 | .90873 | 4.2517 | 43.830 | .27770 | 11.297 |
| #1 | .00232 | .02047 | .00560 | .71038 | .05160 | .00033 | -.00852 | 276.06 | .00039 |
| #2 | .00145 | .02023 | .00351 | .71414 | .05094 | .00031 | -.00449 | 274.98 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **.00133** | **.00298** | **.02695** | **21.271** | **.14367** | **27.788** | **.03512** | **.01940** |
| Stddev | .00016 | .00008 | .00014 | .00427 | .081 | .00190 | .031 | .00008 | .00013 |
| %RSD | 25.060 | 6.2877 | 4.7931 | 15.856 | .38180 | 1.3209 | .11304 | .23327 | .65170 |
| #1 | .00052 | .00139 | .00287 | .02997 | 21.329 | .14232 | 27.810 | .03518 | .01949 |
| #2 | .00074 | .00127 | .00308 | .02393 | 21.214 | .14501 | 27.766 | .03506 | .01931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **71.267** | **.00261** | **.50259** | **.00322** | **204.89** | **.00154** | **.00643** | **9.1457** | **.00008** |
| Stddev | .423 | .00045 | .00327 | .00146 | .33 | .00048 | .00192 | .0315 | .00034 |
| %RSD | .59364 | 17.373 | .64986 | 45.408 | .16201 | 31.107 | 29.909 | .34418 | 400.01 |
| #1 | 70.968 | .00229 | .50028 | .00425 | 204.66 | .00187 | .00507 | 9.1234 | -.00015 |
| #2 | 71.566 | .00293 | .50490 | .00218 | 205.13 | .00120 | .00780 | 9.1679 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9215** | **.00119** | **.00145** | **.00053** | **.03612** | **.01272** | **.01194** | **.00345** |
| Stddev | .0077 | .00037 | .00030 | .00133 | .01433 | .00011 | .00000 | .00078 |
| %RSD | .40235 | 31.091 | 20.683 | 251.82 | 39.666 | .83259 | .03080 | 22.650 |
| #1 | 1.9270 | .00093 | .00123 | .00147 | .04625 | .01265 | .01195 | .00290 |
| #2 | 1.9161 | .00145 | .00166 | -.00041 | .02599 | .01280 | .01194 | .00400 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5787.7** | **74641.** | **4390.9** |
| Stddev | 9.0 | 114. | 7.5 |
| %RSD | .15550 | .15285 | .17155 |
| #1 | 5781.3 | 74561. | 4396.2 |
| #2 | 5794.0 | 74722. | 4385.5 |

Sample Name: 280-42115-C-6-A Acquired: 5/17/2013 6:07:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00222** | **.04108** | **.01478** | **.12898** | **.12957** | **-.00016** | **-.00296** | **79.273** | **.00017** |
| Stddev | .00021 | .00012 | .00164 | .00025 | .00041 | .00003 | .00071 | .229 | .00011 |
| %RSD | 9.3605 | .28483 | 11.063 | .19038 | .31472 | 20.190 | 23.913 | .28830 | 65.953 |
| #1 | .00236 | .04117 | .01594 | .12881 | .12986 | -.00014 | -.00246 | 79.434 | .00009 |
| #2 | .00207 | .04100 | .01363 | .12915 | .12928 | -.00018 | -.00347 | 79.111 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00034** | **.00580** | **.00702** | **11.506** | **.03089** | **13.209** | **.91210** | **.01994** |
| Stddev | .00010 | .00005 | .00008 | .00160 | .071 | .00168 | .018 | .00086 | .00008 |
| %RSD | 29.766 | 15.491 | 1.3901 | 22.756 | .62030 | 5.4269 | .13723 | .09433 | .39398 |
| #1 | .00028 | .00031 | .00585 | .00815 | 11.557 | .02970 | 13.221 | .91271 | .01988 |
| #2 | .00042 | .00038 | .00574 | .00589 | 11.456 | .03207 | 13.196 | .91149 | .01999 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.558** | **.00162** | **.84097** | **.00554** | **59.827** | **.03380** | **.00367** | **4.8836** | **.00021** |
| Stddev | .037 | .00053 | .00161 | .00063 | .186 | .00178 | .00435 | .0167 | .00037 |
| %RSD | .14865 | 32.979 | .19149 | 11.386 | .31169 | 5.2667 | 118.48 | .34279 | 177.25 |
| #1 | 24.584 | .00200 | .84211 | .00509 | 59.959 | .03506 | .00060 | 4.8954 | -.00005 |
| #2 | 24.532 | .00124 | .83984 | .00599 | 59.695 | .03254 | .00675 | 4.8717 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57250** | **.00233** | **.00002** | **-.00173** | **.10831** | **-.00039** | **.00561** | **.00217** |
| Stddev | .00254 | .00007 | .00028 | .00014 | .01974 | .00028 | .00046 | .00032 |
| %RSD | .44449 | 3.0683 | 1225.0 | 8.3369 | 18.226 | 70.113 | 8.1861 | 14.820 |
| #1 | .57430 | .00228 | .00022 | -.00163 | .12226 | -.00059 | .00594 | .00240 |
| #2 | .57070 | .00238 | -.00018 | -.00183 | .09435 | -.00020 | .00529 | .00195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5935.7** | **76473.** | **4386.2** |
| Stddev | 12.1 | 370. | 37.3 |
| %RSD | .20425 | .48356 | .85082 |
| #1 | 5944.3 | 76212. | 4359.8 |
| #2 | 5927.2 | 76735. | 4412.6 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 6:09:51 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01138** | **47.127** | k **.00237** | **.00292** | k **-.00026** | k **-.00007** | k **.96039** | k **-.00979** | k **-.00063** | k **.00226** | k **.00054** | k **.00802** |
| Stddev | .00014 | .494 | .00096 | .00016 | .00013 | .00000 | .00276 | .00101 | .00005 | .00030 | .00003 | .00017 |
| %RSD | 1.2296 | 1.0485 | 40.510 | 5.5929 | 48.716 | 1.2193 | .28759 | 10.331 | 7.4914 | 13.090 | 5.2888 | 2.0633 |
| #1 | k .01148 | 47.476 | k .00305 | .00304 | k -.00035 | k -.00007 | k .95844 | k -.00907 | k -.00066 | k .00247 | k .00052 | k .00814 |
| #2 | k .01128 | 46.778 | k .00169 | .00281 | k -.00017 | k -.00007 | k .96234 | k -.01050 | k -.00060 | k .00205 | k .00056 | k .00791 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.826** | **.00657** | k **-.00533** | k **-.19456** | **-.00012** | **-.00231** | **270.33** | **.00128** | **.00817** | k **.00797** | **5.0690** | k **-.02170** |
| Stddev | .103 | .01155 | .00022 | .00325 | .00001 | .00015 | 2.56 | .00005 | .00022 | .00038 | .0154 | .00082 |
| %RSD | .23041 | 175.84 | 4.0633 | 1.6680 | 4.7426 | 6.4840 | .94638 | 4.0661 | 2.6391 | 4.7535 | .30400 | 3.7823 |
| #1 | k 44.899 | -.00160 | k -.00549 | k -.19685 | -.00012 | -.00221 | 272.14 | .00131 | .00802 | k .00770 | 5.0581 | k -.02112 |
| #2 | k 44.753 | .01473 | k -.00518 | k -.19226 | -.00013 | -.00242 | 268.52 | .00124 | .00833 | k .00824 | 5.0799 | k -.02228 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00957** | k **.01017** | k **.00110** | **.00038** | k **5.4128** | k **.01683** | k **-.00591** | k **9.9279** | k **-.00034** | **.00366** | k **.20124** |
| Stddev | .00151 | .02131 | .00115 | .00008 | .0024 | .00031 | .00102 | .0305 | .00026 | .00046 | .00041 |
| %RSD | 15.815 | 209.45 | 104.76 | 20.875 | .04391 | 1.8242 | 17.259 | .30766 | 76.031 | 12.527 | .20412 |
| #1 | k -.01064 | k .02524 | k .00029 | .00044 | k 5.4112 | k .01662 | k -.00519 | k 9.9495 | k -.00052 | .00334 | k .20153 |
| #2 | k -.00850 | k -.00489 | k .00192 | .00033 | k 5.4145 | k .01705 | k -.00663 | k 9.9063 | k -.00016 | .00398 | k .20095 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5915.4** | **75304.** | **4412.8** |
| Stddev | 19.3 | 48. | 60.8 |
| %RSD | .32579 | .06339 | 1.3779 |
| #1 | 5929.0 | 75270. | 4369.8 |
| #2 | 5901.8 | 75338. | 4455.8 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 6:12:15 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50896** | **.50102** | **.98806** | **.52118** | **.51660** | **.45666** | **.00411** | **4.7132** | **.50413** | **.51332** | **.49199** | **.49010** |
| Stddev | .00275 | .00062 | .00354 | .00041 | .00094 | .00069 | .00063 | .0257 | .00049 | .00008 | .00084 | .00173 |
| %RSD | .53951 | .12416 | .35862 | .07958 | .18183 | .15182 | 15.286 | .54490 | .09714 | .01532 | .17099 | .35328 |
| #1 | .51091 | .50146 | .99057 | .52089 | .51594 | .45617 | .00455 | 4.6950 | .50447 | .51338 | .49258 | .49132 |
| #2 | .50702 | .50058 | .98556 | .52148 | .51727 | .45715 | .00366 | 4.7314 | .50378 | .51327 | .49139 | .48887 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1506** | **52.983** | **1.0616** | **19.261** | **.50274** | **.48289** | **5.0235** | **.50002** | **1.0133** | **1.0151** | **-.01023** | **1.0169** |
| Stddev | .0090 | .021 | .0004 | .068 | .00112 | .00091 | .0081 | .00123 | .0021 | .0020 | .00038 | .0028 |
| %RSD | .41792 | .03959 | .03608 | .35086 | .22311 | .18847 | .16224 | .24534 | .20706 | .19676 | 3.7573 | .27832 |
| #1 | 2.1442 | 52.968 | 1.0613 | 19.308 | .50353 | .48353 | 5.0177 | .50089 | 1.0148 | 1.0137 | -.01050 | 1.0189 |
| #2 | 2.1569 | 52.998 | 1.0618 | 19.213 | .50194 | .48224 | 5.0292 | .49915 | 1.0118 | 1.0165 | -.00996 | 1.0149 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0383** | F **4.3440** | **.96339** | **.52143** | **.00290** | **.50218** | **.97700** | **-.06835** | **.48781** | **.48196** | **.48071** |
| Stddev | .0003 | .0614 | .00267 | .00166 | .00105 | .00025 | .00161 | .03083 | .00279 | .00327 | .00466 |
| %RSD | .02732 | 1.4135 | .27674 | .31747 | 36.243 | .04926 | .16463 | 45.108 | .57147 | .67884 | .96961 |
| #1 | 1.0385 | 4.3006 | .96527 | .52026 | .00216 | .50236 | .97814 | -.09016 | .48978 | .48427 | .47741 |
| #2 | 1.0381 | 4.3875 | .96150 | .52260 | .00364 | .50201 | .97586 | -.04655 | .48583 | .47965 | .48400 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5975.9** | **76257.** | **4412.4** |
| Stddev | 6.9 | 484. | 5.3 |
| %RSD | .11555 | .63423 | .11996 |
| #1 | 5971.1 | 75915. | 4416.2 |
| #2 | 5980.8 | 76599. | 4408.7 |

Sample Name: CCB Acquired: 5/17/2013 6:14:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00204** | **-.00041** | **.00400** | **.00106** | W **-.00087** | **-.00006** | **.00206** | **-.00351** | **-.00010** | **.00030** | **.00029** |
| Stddev | .00053 | .00037 | .00020 | .00023 | .00047 | .00006 | .00310 | .00141 | .00003 | .00007 | .00012 |
| %RSD | 25.956 | 91.176 | 4.9277 | 21.979 | 53.792 | 98.570 | 150.34 | 39.998 | 28.061 | 23.866 | 41.634 |
| #1 | .00167 | -.00067 | .00386 | .00090 | -.00120 | -.00002 | .00426 | -.00451 | -.00012 | .00025 | .00038 |
| #2 | .00242 | -.00015 | .00413 | .00123 | -.00054 | -.00010 | -.00013 | -.00252 | -.00008 | .00035 | .00021 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | | | .00058 | | | | | | |
| Low Limit | -.00180 | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00165** | **-.00340** | **.02902** | W **-.00504** | **.00337** | **-.00008** | **-.00031** | **-.06880** | **.00023** | **-.00130** | **.00131** |
| Stddev | .00020 | .00172 | .00110 | .00203 | .00106 | .00001 | .00006 | .00656 | .00012 | .00075 | .00158 |
| %RSD | 12.242 | 50.678 | 3.7818 | 40.330 | 31.402 | 8.8875 | 18.633 | 9.5346 | 52.886 | 57.615 | 121.19 |
| #1 | -.00151 | -.00462 | .02979 | -.00648 | .00411 | -.00009 | -.00027 | -.06416 | .00015 | -.00183 | .00243 |
| #2 | -.00179 | -.00218 | .02824 | -.00361 | .00262 | -.00008 | -.00035 | -.07344 | .00032 | -.00077 | .00019 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | .00261 | | | | | | | |
| Low Limit | -.00136 | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01403** | **-.00103** | **-.00295** | **-.01744** | **.00037** | **.00002** | **.00123** | **.00025** | **-.00006** | **-.02130** | W **-.00162** |
| Stddev | .00269 | .00302 | .00220 | .00256 | .00076 | .00001 | .00117 | .00007 | .00061 | .01287 | .00013 |
| %RSD | 19.186 | 292.68 | 74.613 | 14.707 | 204.88 | 23.009 | 94.678 | 28.136 | 1068.3 | 60.418 | 8.1628 |
| #1 | -.01593 | .00110 | -.00451 | -.01925 | -.00017 | .00002 | .00041 | .00030 | -.00049 | -.01220 | -.00172 |
| #2 | -.01212 | -.00316 | -.00140 | -.01562 | .00091 | .00003 | .00206 | .00020 | .00037 | -.03040 | -.00153 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00230** | **.00131** |
| Stddev | .00036 | .00042 |
| %RSD | 15.775 | 32.498 |
| #1 | .00204 | .00161 |
| #2 | .00255 | .00101 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6051.9** | **77467.** | **4391.8** |
| Stddev | 1.8 | 156. | 70.5 |
| %RSD | .03037 | .20131 | 1.6061 |
| #1 | 6053.2 | 77357. | 4441.6 |
| #2 | 6050.6 | 77577. | 4341.9 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 6:16:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01183** | **.10152** | F **.01953** | **.10439** | **.00979** | **.00083** | **.10317** | **.18307** | **.00508** | **.01078** | **.01031** | **.01328** |
| Stddev | .00050 | .00027 | .00183 | .00006 | .00012 | .00002 | .00143 | .00221 | .00000 | .00003 | .00016 | .00031 |
| %RSD | 4.2463 | .26597 | 9.3442 | .05616 | 1.2314 | 2.7266 | 1.3821 | 1.2087 | .03643 | .26075 | 1.5828 | 2.2993 |
| #1 | .01148 | .10133 | .01824 | .10443 | .00987 | .00082 | .10418 | .18464 | .00508 | .01080 | .01020 | .01350 |
| #2 | .01219 | .10171 | .02082 | .10434 | .00970 | .00085 | .10216 | .18151 | .00507 | .01076 | .01043 | .01307 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | | |
| Range | | | 30.000% | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08116** | **3.3360** | F **.00643** | **.19946** | **.01024** | **.01901** | **.97094** | **.04048** | **2.9640** | **.01029** | **-.01867** | **.00943** |
| Stddev | .00183 | .0468 | .00030 | .00398 | .00005 | .00009 | .01845 | .00013 | .0081 | .00046 | .00047 | .00305 |
| %RSD | 2.2492 | 1.4039 | 4.6492 | 1.9962 | .47662 | .49659 | 1.9001 | .32683 | .27276 | 4.5142 | 2.5205 | 32.374 |
| #1 | .08245 | 3.3029 | .00622 | .19664 | .01020 | .01908 | .98399 | .04039 | 2.9583 | .00996 | -.01900 | .00727 |
| #2 | .07987 | 3.3691 | .00664 | .20227 | .01027 | .01895 | .95789 | .04058 | 2.9697 | .01062 | -.01833 | .01158 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .01000 | | | | | | | | | |
| Range | | | -30.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01438** | **.41995** | **.09551** | **.01061** | **.01790** | **.00967** | **.01442** | F **.02624** | **.00894** | **.02204** | **.01729** |
| Stddev | .00264 | .00063 | .00027 | .00022 | .00278 | .00009 | .00011 | .00412 | .00051 | .00055 | .00176 |
| %RSD | 18.371 | .15002 | .27777 | 2.0717 | 15.544 | .97404 | .74963 | 15.700 | 5.6575 | 2.4756 | 10.205 |
| #1 | .01625 | .42039 | .09532 | .01046 | .01593 | .00960 | .01450 | .02915 | .00858 | .02243 | .01604 |
| #2 | .01251 | .41950 | .09570 | .01077 | .01986 | .00974 | .01435 | .02332 | .00930 | .02166 | .01854 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .06000 | | | |
| Range | | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6057.7** | **76966.** | **4415.5** |
| Stddev | 8.3 | 140. | 3.7 |
| %RSD | .13695 | .18217 | .08277 |
| #1 | 6051.8 | 77065. | 4418.1 |
| #2 | 6063.5 | 76867. | 4412.9 |

Sample Name: 280-42115-C-7-A Acquired: 5/17/2013 6:19:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00214** | **.54365** | **.01127** | **.15613** | **.05041** | **-.00010** | **-.00161** | **81.946** | **-.00001** |
| Stddev | .00082 | .00033 | .00158 | .00066 | .00006 | .00001 | .00256 | .077 | .00012 |
| %RSD | 38.447 | .06144 | 14.008 | .42336 | .12817 | 6.2496 | 159.20 | .09343 | 816.63 |
| #1 | .00156 | .54388 | .01015 | .15566 | .05037 | -.00009 | .00020 | 81.892 | -.00010 |
| #2 | .00273 | .54341 | .01239 | .15659 | .05046 | -.00010 | -.00342 | 82.000 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00150** | **.00220** | **.04190** | **10.102** | **.02508** | **.13018** | **.00164** | **.01577** |
| Stddev | .00019 | .00003 | .00037 | .00188 | .027 | .00291 | .00273 | .00002 | .00026 |
| %RSD | 86.906 | 2.1435 | 16.866 | 4.4805 | .27189 | 11.604 | 2.0960 | 1.1579 | 1.6354 |
| #1 | .00008 | .00152 | .00194 | .04057 | 10.121 | .02714 | .12825 | .00162 | .01595 |
| #2 | .00035 | .00148 | .00246 | .04323 | 10.083 | .02302 | .13211 | .00165 | .01559 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **31.650** | **.00050** | **.26444** | **.00428** | **32.366** | **.00840** | **.00613** | **10.686** | **-.00022** |
| Stddev | .362 | .00006 | .00144 | .00005 | .015 | .00067 | .00055 | .003 | .00075 |
| %RSD | 1.1443 | 12.494 | .54439 | 1.0934 | .04511 | 7.9857 | 9.0282 | .02462 | 342.54 |
| #1 | 31.906 | .00046 | .26546 | .00425 | 32.376 | .00888 | .00574 | 10.688 | .00031 |
| #2 | 31.394 | .00054 | .26342 | .00432 | 32.355 | .00793 | .00653 | 10.685 | -.00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44023** | **.00286** | **.00008** | **.00003** | W **-.06188** | **.01888** | **.01016** | **.00353** |
| Stddev | .00063 | .00331 | .00006 | .00088 | .05242 | .00061 | .00009 | .00082 |
| %RSD | .14364 | 115.45 | 73.775 | 3328.4 | 84.713 | 3.2430 | .84125 | 23.336 |
| #1 | .43978 | .00053 | .00012 | -.00060 | -.02481 | .01845 | .01022 | .00295 |
| #2 | .44067 | .00520 | .00004 | .00065 | -.09895 | .01931 | .01010 | .00412 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5980.9** | **77011.** | **4459.0** |
| Stddev | 17.4 | 341. | 3.7 |
| %RSD | .29152 | .44246 | .08243 |
| #1 | 5993.2 | 76770. | 4456.4 |
| #2 | 5968.5 | 77252. | 4461.6 |

Sample Name: 280-42115-C-8-A Acquired: 5/17/2013 6:21:49 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00230** | **.05809** | **.01169** | **.06166** | **.01704** | **-.00002** | **.00122** | **24.730** | **-.00005** |
| Stddev | .00018 | .00008 | .00094 | .00075 | .00004 | .00000 | .00159 | .027 | .00006 |
| %RSD | 7.9389 | .14498 | 8.0157 | 1.2190 | .25269 | 10.774 | 130.31 | .11118 | 121.03 |
| #1 | .00243 | .05815 | .01235 | .06113 | .01707 | -.00002 | .00010 | 24.749 | -.00001 |
| #2 | .00217 | .05803 | .01103 | .06219 | .01701 | -.00001 | .00235 | 24.711 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00041** | **.00417** | **.01363** | **12.726** | **.02541** | **8.9668** | **.02505** | **.01875** |
| Stddev | .00013 | .00027 | .00005 | .00321 | .023 | .00036 | .0016 | .00006 | .00031 |
| %RSD | 38.870 | 65.332 | 1.1223 | 23.568 | .18213 | 1.4214 | .01790 | .24653 | 1.6704 |
| #1 | .00024 | .00022 | .00420 | .01590 | 12.743 | .02567 | 8.9657 | .02510 | .01897 |
| #2 | .00042 | .00060 | .00413 | .01136 | 12.710 | .02516 | 8.9680 | .02501 | .01853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.747** | **.00114** | **2.2130** | **.00004** | **15.861** | **.00963** | **.00008** | **5.1658** | **.00092** |
| Stddev | .064 | .00001 | .0077 | .00054 | .020 | .00024 | .00593 | .0019 | .00042 |
| %RSD | .21530 | .83642 | .34865 | 1487.3 | .12899 | 2.4775 | 7713.4 | .03779 | 46.161 |
| #1 | 29.702 | .00114 | 2.2184 | .00042 | 15.847 | .00980 | .00427 | 5.1672 | .00062 |
| #2 | 29.792 | .00115 | 2.2075 | -.00034 | 15.876 | .00946 | -.00411 | 5.1645 | .00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29756** | **.00215** | **.00001** | **-.00202** | **.17914** | **.00304** | **.00474** | **.00376** |
| Stddev | .00027 | .00055 | .00013 | .00082 | .02266 | .00006 | .00012 | .00147 |
| %RSD | .09183 | 25.729 | 1323.0 | 40.650 | 12.648 | 1.9713 | 2.4660 | 39.024 |
| #1 | .29776 | .00254 | -.00008 | -.00260 | .16312 | .00300 | .00483 | .00272 |
| #2 | .29737 | .00176 | .00010 | -.00144 | .19516 | .00308 | .00466 | .00480 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6062.9** | **78057.** | **4506.6** |
| Stddev | 3.7 | 3. | 14.7 |
| %RSD | .06092 | .00408 | .32660 |
| #1 | 6060.3 | 78055. | 4496.2 |
| #2 | 6065.5 | 78059. | 4517.0 |

Sample Name: 280-42115-C-9-A Acquired: 5/17/2013 6:24:14 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **.08213** | **.00714** | **.15193** | **.04063** | **-.00002** | **-.00161** | **88.497** | **.00000** |
| Stddev | .00015 | .00025 | .00336 | .00036 | .00004 | .00002 | .00000 | .739 | .00007 |
| %RSD | 8.4052 | .29858 | 47.102 | .23899 | .09853 | 107.48 | .16991 | .83523 | 1744.6 |
| #1 | .00184 | .08230 | .00476 | .15167 | .04060 | -.00004 | -.00161 | 89.020 | -.00004 |
| #2 | .00163 | .08195 | .00952 | .15219 | .04066 | -.00001 | -.00161 | 87.975 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00041** | **.00288** | **.01835** | **20.803** | **.04595** | **13.933** | **.59935** | **.01565** |
| Stddev | .00013 | .00009 | .00004 | .00004 | .142 | .00271 | .039 | .00190 | .00028 |
| %RSD | 41.791 | 22.752 | 1.4608 | .20794 | .68177 | 5.8972 | .28077 | .31661 | 1.7724 |
| #1 | .00022 | .00048 | .00285 | .01832 | 20.904 | .04404 | 13.961 | .60069 | .01585 |
| #2 | .00040 | .00034 | .00291 | .01837 | 20.703 | .04787 | 13.905 | .59801 | .01546 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **31.574** | **.00122** | **.85375** | **.00170** | **75.447** | **.01109** | **.00311** | **4.4572** | **.00011** |
| Stddev | .151 | .00002 | .00192 | .00034 | .380 | .00038 | .00329 | .0062 | .00017 |
| %RSD | .47771 | 1.8584 | .22473 | 20.070 | .50361 | 3.3848 | 105.90 | .13862 | 159.01 |
| #1 | 31.681 | .00123 | .85240 | .00146 | 75.178 | .01082 | .00078 | 4.4616 | .00023 |
| #2 | 31.468 | .00120 | .85511 | .00194 | 75.716 | .01135 | .00544 | 4.4528 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65270** | **.00241** | **-.00007** | **-.00068** | **.12952** | **.00379** | **.00478** | **.00393** |
| Stddev | .00483 | .00025 | .00000 | .00045 | .00646 | .00011 | .00017 | .00296 |
| %RSD | .74069 | 10.515 | 1.7304 | 65.853 | 4.9848 | 3.0093 | 3.6140 | 75.372 |
| #1 | .65612 | .00223 | -.00007 | -.00036 | .13409 | .00371 | .00466 | .00602 |
| #2 | .64928 | .00259 | -.00007 | -.00099 | .12496 | .00387 | .00490 | .00184 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5927.9** | **76464.** | **4502.6** |
| Stddev | 3.7 | 130. | 49.6 |
| %RSD | .06324 | .17037 | 1.1011 |
| #1 | 5930.5 | 76556. | 4467.6 |
| #2 | 5925.2 | 76372. | 4537.7 |

Sample Name: 280-42115-C-10-A Acquired: 5/17/2013 6:26:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00224** | **.16115** | **.01236** | **.05962** | **.02586** | **.00003** | **-.00243** | **39.471** | **.00006** |
| Stddev | .00010 | .00074 | .00319 | .00052 | .00024 | .00013 | .00122 | .033 | .00003 |
| %RSD | 4.2983 | .46032 | 25.808 | .88037 | .92938 | 370.58 | 50.407 | .08459 | 54.432 |
| #1 | .00217 | .16167 | .01011 | .05999 | .02569 | .00012 | -.00156 | 39.447 | .00008 |
| #2 | .00230 | .16063 | .01462 | .05925 | .02603 | -.00006 | -.00329 | 39.494 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00052** | **.00404** | **.08755** | **11.783** | **.01700** | **8.9340** | **.02293** | **.01302** |
| Stddev | .00008 | .00015 | .00009 | .00096 | .132 | .00206 | .0417 | .00006 | .00002 |
| %RSD | 250.67 | 29.763 | 2.2021 | 1.1009 | 1.1196 | 12.140 | .46624 | .24590 | .17362 |
| #1 | -.00002 | .00041 | .00410 | .08823 | 11.877 | .01846 | 8.9635 | .02297 | .01303 |
| #2 | .00009 | .00063 | .00398 | .08687 | 11.690 | .01554 | 8.9046 | .02289 | .01300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.421** | **.00061** | **1.3243** | **.00348** | **22.848** | **.01037** | **-.00011** | **5.6041** | **.00074** |
| Stddev | .000 | .00022 | .0060 | .00106 | .075 | .00192 | .00333 | .0108 | .00036 |
| %RSD | .00098 | 36.355 | .44989 | 30.516 | .32663 | 18.521 | 3029.7 | .19268 | 48.193 |
| #1 | 26.421 | .00045 | 1.3201 | .00273 | 22.795 | .00901 | .00224 | 5.5965 | .00100 |
| #2 | 26.422 | .00076 | 1.3285 | .00424 | 22.901 | .01173 | -.00246 | 5.6117 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44418** | **.00106** | **.00205** | **.00021** | **.17522** | **.01376** | **.01516** | **.00342** |
| Stddev | .00029 | .00163 | .00037 | .00005 | .01808 | .00026 | .00022 | .00165 |
| %RSD | .06557 | 152.87 | 17.939 | 22.154 | 10.316 | 1.8698 | 1.4601 | 48.195 |
| #1 | .44397 | -.00009 | .00231 | .00018 | .18801 | .01357 | .01500 | .00226 |
| #2 | .44438 | .00222 | .00179 | .00025 | .16244 | .01394 | .01531 | .00459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5966.2** | **75391.** | **4343.3** |
| Stddev | 31.3 | 211. | 22.3 |
| %RSD | .52545 | .27978 | .51302 |
| #1 | 5944.0 | 75242. | 4327.6 |
| #2 | 5988.3 | 75540. | 4359.1 |

Sample Name: 280-42115-C-11-A Acquired: 5/17/2013 6:29:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00191** | **.08479** | **.01340** | **.05344** | **.01898** | **.00003** | **-.00191** | **35.791** | **-.00001** |
| Stddev | .00014 | .00079 | .00303 | .00006 | .00010 | .00010 | .00191 | .239 | .00005 |
| %RSD | 7.4681 | .93644 | 22.604 | .11538 | .55119 | 363.69 | 99.808 | .66782 | 512.98 |
| #1 | .00201 | .08535 | .01555 | .05340 | .01890 | .00010 | -.00326 | 35.960 | -.00005 |
| #2 | .00181 | .08423 | .01126 | .05349 | .01905 | -.00004 | -.00056 | 35.622 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00037** | **.00118** | **.00892** | **10.532** | **.01338** | **8.2355** | **.01671** | **.01262** |
| Stddev | .00009 | .00007 | .00043 | .00057 | .085 | .00107 | .0161 | .00003 | .00017 |
| %RSD | 32.187 | 18.615 | 36.514 | 6.4250 | .80756 | 8.0247 | .19586 | .15240 | 1.3103 |
| #1 | .00034 | .00041 | .00148 | .00932 | 10.592 | .01262 | 8.2469 | .01672 | .01274 |
| #2 | .00022 | .00032 | .00087 | .00851 | 10.472 | .01414 | 8.2241 | .01669 | .01250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.376** | **.00079** | **1.3028** | **.00190** | **18.862** | **.00533** | **.00169** | **5.5584** | **.00068** |
| Stddev | .052 | .00024 | .0050 | .00002 | .008 | .00027 | .00012 | .0114 | .00016 |
| %RSD | .21357 | 30.944 | .38343 | 1.2459 | .04137 | 4.9911 | 7.2712 | .20426 | 23.718 |
| #1 | 24.340 | .00062 | 1.3063 | .00188 | 18.856 | .00514 | .00178 | 5.5665 | .00080 |
| #2 | 24.413 | .00096 | 1.2993 | .00192 | 18.867 | .00552 | .00161 | 5.5504 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41525** | **-.00022** | **-.00019** | **-.00064** | **.17833** | **.01484** | **.00552** | **.00426** |
| Stddev | .00191 | .00015 | .00066 | .00044 | .03620 | .00109 | .00011 | .00007 |
| %RSD | .45973 | 69.017 | 355.25 | 69.102 | 20.299 | 7.3297 | 2.0643 | 1.5838 |
| #1 | .41660 | -.00011 | .00028 | -.00095 | .15274 | .01407 | .00561 | .00422 |
| #2 | .41390 | -.00032 | -.00065 | -.00033 | .20393 | .01560 | .00544 | .00431 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5944.6** | **76231.** | **4394.7** |
| Stddev | 4.8 | 3. | 52.1 |
| %RSD | .08023 | .00361 | 1.1859 |
| #1 | 5941.2 | 76233. | 4357.8 |
| #2 | 5948.0 | 76229. | 4431.5 |

Sample Name: 280-42115-C-12-A  Acquired: 5/17/2013 6:31:28  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **.15182** | **.00530** | **.00806** | **.04992** | **-.00008** | **-.00043** | **18.046** | **.00001** |
| Stddev | .00037 | .00027 | .00063 | .00071 | .00051 | .00001 | .00075 | .101 | .00010 |
| %RSD | 18.635 | .17661 | 11.814 | 8.7601 | 1.0296 | 10.314 | 175.81 | .56003 | 1609.8 |
| #1 | .00226 | .15163 | .00485 | .00856 | .04956 | -.00008 | -.00096 | 17.975 | -.00006 |
| #2 | .00173 | .15201 | .00574 | .00756 | .05029 | -.00007 | .00010 | 18.118 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00038** | **.00268** | **.04049** | **6.9212** | **.00071** | **3.6831** | **.00771** | **.01042** |
| Stddev | .00017 | .00011 | .00016 | .00047 | .0259 | .00030 | .0063 | .00003 | .00009 |
| %RSD | 70.430 | 29.147 | 5.8603 | 1.1708 | .37449 | 42.449 | .17182 | .37275 | .86520 |
| #1 | .00012 | .00030 | .00279 | .04083 | 6.9029 | .00049 | 3.6876 | .00773 | .01048 |
| #2 | .00037 | .00046 | .00256 | .04016 | 6.9395 | .00092 | 3.6786 | .00769 | .01035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.299** | **.00084** | **.23892** | **.00121** | **2.9977** | **-.00097** | **.00152** | **4.8895** | **.00045** |
| Stddev | .255 | .00003 | .00173 | .00096 | .0189 | .00104 | .00015 | .0027 | .00088 |
| %RSD | 1.9204 | 4.0547 | .72206 | 79.776 | .63079 | 106.51 | 9.9593 | .05543 | 194.21 |
| #1 | 13.118 | .00081 | .24014 | .00053 | 3.0111 | -.00171 | .00162 | 4.8914 | -.00017 |
| #2 | 13.479 | .00086 | .23770 | .00189 | 2.9843 | -.00024 | .00141 | 4.8875 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27305** | **.00169** | **.00123** | **.00017** | **.14687** | **.00839** | **.00457** | **.00513** |
| Stddev | .00205 | .00053 | .00017 | .00083 | .01751 | .00077 | .00003 | .00147 |
| %RSD | .74941 | 31.640 | 14.026 | 496.17 | 11.925 | 9.2247 | .67292 | 28.672 |
| #1 | .27161 | .00207 | .00110 | -.00042 | .13449 | .00785 | .00455 | .00409 |
| #2 | .27450 | .00131 | .00135 | .00076 | .15926 | .00894 | .00459 | .00617 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6013.5** | **76950.** | **4440.7** |
| Stddev | 7.4 | 32. | 25.5 |
| %RSD | .12345 | .04123 | .57338 |
| #1 | 6018.8 | 76972. | 4458.7 |
| #2 | 6008.3 | 76927. | 4422.7 |

Sample Name: 280-42115-C-13-A Acquired: 5/17/2013 6:33:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00185** | **.21062** | **.00597** | **.00873** | **.03569** | **.00001** | **-.00394** | **18.081** | **.00008** |
| Stddev | .00035 | .00014 | .00146 | .00012 | .00050 | .00002 | .00025 | .038 | .00008 |
| %RSD | 18.782 | .06613 | 24.529 | 1.3211 | 1.4063 | 188.84 | 6.2855 | .20796 | 96.123 |
| #1 | .00160 | .21072 | .00493 | .00865 | .03534 | -.00000 | -.00411 | 18.107 | .00013 |
| #2 | .00209 | .21053 | .00700 | .00882 | .03605 | .00002 | -.00376 | 18.054 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00060** | **.00109** | **.08869** | **7.1206** | **.00287** | **3.9475** | **.00747** | **.00990** |
| Stddev | .00017 | .00011 | .00010 | .00339 | .1164 | .00370 | .0017 | .00005 | .00017 |
| %RSD | 95.096 | 18.036 | 9.4095 | 3.8244 | 1.6343 | 128.89 | .04343 | .67514 | 1.7087 |
| #1 | .00030 | .00067 | .00116 | .08629 | 7.2028 | .00549 | 3.9463 | .00743 | .01002 |
| #2 | .00006 | .00052 | .00101 | .09109 | 7.0383 | .00025 | 3.9488 | .00751 | .00978 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.226** | **.00029** | **.25685** | **.00158** | **3.2182** | **-.00039** | **.00165** | **4.7037** | **.00012** |
| Stddev | .117 | .00034 | .00516 | .00003 | .0004 | .00109 | .00155 | .0239 | .00017 |
| %RSD | .82241 | 117.92 | 2.0081 | 2.1838 | .01255 | 284.10 | 94.148 | .50765 | 141.83 |
| #1 | 14.143 | .00053 | .26050 | .00161 | 3.2184 | .00039 | .00275 | 4.6868 | -.00000 |
| #2 | 14.309 | .00005 | .25320 | .00156 | 3.2179 | -.00116 | .00055 | 4.7206 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27144** | **.00201** | **.00120** | **-.00142** | **.13195** | **.00936** | **.00585** | **.00332** |
| Stddev | .00120 | .00136 | .00007 | .00054 | .04321 | .00042 | .00051 | .00190 |
| %RSD | .44099 | 67.907 | 5.6721 | 37.910 | 32.748 | 4.4868 | 8.6836 | 57.081 |
| #1 | .27228 | .00297 | .00115 | -.00104 | .10140 | .00966 | .00549 | .00466 |
| #2 | .27059 | .00104 | .00124 | -.00181 | .16251 | .00906 | .00621 | .00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5973.1** | **76144.** | **4417.3** |
| Stddev | 1.2 | 320. | 23.7 |
| %RSD | .02006 | .42024 | .53724 |
| #1 | 5972.2 | 75918. | 4400.5 |
| #2 | 5973.9 | 76370. | 4434.1 |

Sample Name: 280-42115-C-14-A Acquired: 5/17/2013 6:36:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00216** | **.00555** | **.00421** | **.00069** | **-.00071** | **-.00009** | **-.00233** | **.08209** | **.00005** |
| Stddev | .00034 | .00001 | .00129 | .00032 | .00027 | .00004 | .00415 | .00455 | .00000 |
| %RSD | 15.752 | .26965 | 30.569 | 45.817 | 37.579 | 51.876 | 177.80 | 5.5470 | 3.1778 |
| #1 | .00192 | .00557 | .00330 | .00092 | -.00089 | -.00012 | .00060 | .07887 | .00005 |
| #2 | .00240 | .00554 | .00512 | .00047 | -.00052 | -.00005 | -.00527 | .08531 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00045** | **.00458** | **.04970** | **.08399** | **-.00513** | **.01446** | **.00051** | **-.00022** |
| Stddev | .00008 | .00012 | .00031 | .00074 | .00676 | .00107 | .00097 | .00005 | .00027 |
| %RSD | 200.71 | 25.814 | 6.8057 | 1.4961 | 8.0472 | 20.930 | 6.7243 | 9.0817 | 121.66 |
| #1 | .00002 | .00037 | .00480 | .04917 | .07921 | -.00589 | .01377 | .00047 | -.00003 |
| #2 | -.00010 | .00053 | .00436 | .05023 | .08877 | -.00437 | .01514 | .00054 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06192** | **.00035** | **.23922** | **-.00049** | **.52338** | **-.00198** | **.00066** | **.02958** | **-.00018** |
| Stddev | .00647 | .00010 | .00324 | .00111 | .00125 | .00051 | .00393 | .01130 | .00002 |
| %RSD | 10.455 | 27.545 | 1.3551 | 225.20 | .23846 | 25.970 | 598.87 | 38.200 | 10.284 |
| #1 | -.06650 | .00028 | .24152 | -.00128 | .52426 | -.00161 | .00344 | .03757 | -.00019 |
| #2 | -.05734 | .00042 | .23693 | .00029 | .52250 | -.00234 | -.00212 | .02159 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.00331** | **-.00016** | **-.00193** | **-.04200** | **-.00127** | **.00789** | **.00333** |
| Stddev | .00007 | .00050 | .00014 | .00043 | .00279 | .00015 | .00001 | .00085 |
| %RSD | 13.798 | 14.966 | 86.961 | 22.393 | 6.6372 | 11.525 | .15205 | 25.371 |
| #1 | .00058 | .00366 | -.00006 | -.00163 | -.04003 | -.00117 | .00788 | .00393 |
| #2 | .00048 | .00296 | -.00025 | -.00224 | -.04397 | -.00138 | .00790 | .00273 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6031.4** | **77266.** | **4427.3** |
| Stddev | 4.1 | 39. | 2.6 |
| %RSD | .06847 | .05031 | .05969 |
| #1 | 6028.5 | 77294. | 4429.2 |
| #2 | 6034.3 | 77239. | 4425.5 |

Sample Name: sd 42115-C-14-A@5 Acquired: 5/17/2013 6:38:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00173** | **.00137** | **.00494** | **-.00038** | **-.00084** | **.00001** | **.00012** | **.02523** | **-.00009** |
| Stddev | .00018 | .00000 | .00139 | .00004 | .00014 | .00001 | .00049 | .00208 | .00003 |
| %RSD | 10.340 | .20772 | 28.155 | 10.209 | 16.786 | 110.51 | 406.17 | 8.2583 | 28.960 |
| #1 | .00160 | .00137 | .00593 | -.00041 | -.00074 | .00002 | -.00023 | .02376 | -.00008 |
| #2 | .00185 | .00137 | .00396 | -.00035 | -.00094 | .00000 | .00047 | .02670 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00029** | **-.00070** | **.00381** | **.01338** | **-.00446** | **.00479** | **.00011** | **-.00035** |
| Stddev | .00009 | .00008 | .00018 | .00223 | .03683 | .00191 | .00050 | .00003 | .00021 |
| %RSD | 34.731 | 28.118 | 26.341 | 58.554 | 275.34 | 42.881 | 10.341 | 26.563 | 59.490 |
| #1 | .00020 | .00023 | -.00083 | .00538 | -.01267 | -.00582 | .00514 | .00009 | -.00020 |
| #2 | .00033 | .00035 | -.00057 | .00223 | .03942 | -.00311 | .00444 | .00013 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07456** | **.00004** | **.05173** | **.00068** | **.08865** | **-.00137** | **.00331** | **.00662** | **-.00023** |
| Stddev | .00801 | .00020 | .00205 | .00032 | .00285 | .00081 | .00198 | .01673 | .00020 |
| %RSD | 10.747 | 560.23 | 3.9572 | 47.217 | 3.2190 | 59.505 | 59.909 | 252.51 | 88.976 |
| #1 | -.08023 | .00018 | .05318 | .00045 | .08663 | -.00079 | .00191 | -.00520 | -.00037 |
| #2 | -.06890 | -.00011 | .05028 | .00090 | .09066 | -.00194 | .00471 | .01845 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00211** | **-.00046** | **-.00153** | **-.00100** | **-.00094** | **.00407** | **.00519** |
| Stddev | .00005 | .00201 | .00019 | .00082 | .03117 | .00042 | .00036 | .00163 |
| %RSD | 26.292 | 95.385 | 41.541 | 53.634 | 3124.7 | 44.876 | 8.7836 | 31.296 |
| #1 | .00024 | .00353 | -.00032 | -.00095 | .02104 | -.00124 | .00382 | .00404 |
| #2 | .00016 | .00069 | -.00059 | -.00210 | -.02304 | -.00064 | .00432 | .00634 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5940.4** | **75643.** | **4368.8** |
| Stddev | 12.1 | 120. | 21.5 |
| %RSD | .20411 | .15811 | .49284 |
| #1 | 5931.9 | 75559. | 4384.1 |
| #2 | 5949.0 | 75728. | 4353.6 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 6:41:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **47.809** | **.00247** | **.00081** | **-.00053** | **-.00009** | **1.0021** | **-.00143** | **-.00065** | **.00195** | **.00027** | **-.00293** | **45.333** |
| Stddev | .00092 | .108 | .00221 | .00012 | .00013 | .00005 | .0026 | .00111 | .00002 | .00028 | .00016 | .00056 | .045 |
| %RSD | 94.571 | .22538 | 89.381 | 14.717 | 25.458 | 53.192 | .26219 | 77.663 | 3.5706 | 14.268 | 61.425 | 19.103 | .09971 |
| #1 | .00163 | 47.733 | .00403 | .00090 | -.00062 | -.00012 | 1.0040 | -.00222 | -.00063 | .00215 | .00038 | -.00254 | 45.365 |
| #2 | .00032 | 47.886 | .00091 | .00073 | -.00043 | -.00005 | 1.0003 | -.00065 | -.00067 | .00176 | .00015 | -.00333 | 45.301 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03822** | **-.00506** | **.01212** | **-.00016** | **-.00232** | **274.99** | **.00132** | **.00715** | **.00218** | **5.0788** | **-.00320** | **.00904** | **-.00198** |
| Stddev | .05526 | .00035 | .00110 | .00010 | .00007 | .93 | .00015 | .00074 | .00030 | .0250 | .00094 | .00111 | .01130 |
| %RSD | 144.58 | 6.8253 | 9.0663 | 63.544 | 3.0142 | .33640 | 11.198 | 10.364 | 13.832 | .49289 | 29.297 | 12.284 | 571.24 |
| #1 | .07729 | -.00482 | .01290 | -.00009 | -.00236 | 274.33 | .00121 | .00663 | .00196 | 5.0965 | -.00254 | .00826 | -.00997 |
| #2 | -.00085 | -.00531 | .01134 | -.00023 | -.00227 | 275.64 | .00142 | .00768 | .00239 | 5.0611 | -.00387 | .00983 | .00601 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00133** | **.00056** | **5.1859** | **.00381** | **-.00217** | **10.036** | **-.00174** | **.00343** | **-.06052** |
| Stddev | .00001 | .00003 | .0225 | .00004 | .00025 | .056 | .00010 | .00002 | .00240 |
| %RSD | .69410 | 5.6482 | .43357 | 1.0024 | 11.563 | .56010 | 5.5248 | .52762 | 3.9725 |
| #1 | .00133 | .00054 | 5.1700 | .00378 | -.00235 | 9.9958 | -.00181 | .00344 | -.05882 |
| #2 | .00132 | .00058 | 5.2018 | .00383 | -.00199 | 10.075 | -.00167 | .00341 | -.06222 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5840.5** | **74186.** | **4289.7** |
| Stddev | 2.5 | 189. | 3.6 |
| %RSD | .04284 | .25508 | .08381 |
| #1 | 5842.3 | 74052. | 4292.2 |
| #2 | 5838.7 | 74320. | 4287.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 6:43:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50874** | **.49725** | **.98259** | **.51675** | **.52347** | **.46132** | **.00321** | **4.7070** | **.50092** | **.51110** | **.49082** | **.48940** |
| Stddev | .00438 | .00015 | .00088 | .00022 | .00062 | .00092 | .00010 | .0079 | .00050 | .00067 | .00001 | .00438 |
| %RSD | .86022 | .03105 | .08949 | .04342 | .11881 | .20049 | 2.9758 | .16729 | .09893 | .13047 | .00238 | .89414 |
| #1 | .51184 | .49714 | .98321 | .51660 | .52391 | .46197 | .00314 | 4.7014 | .50127 | .51157 | .49083 | .49249 |
| #2 | .50565 | .49736 | .98196 | .51691 | .52303 | .46066 | .00328 | 4.7126 | .50057 | .51063 | .49081 | .48631 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1451** | **53.280** | **1.0708** | **19.259** | **.50282** | **.48095** | **5.0281** | **.49929** | **1.0096** | **1.0120** | **-.02726** | **1.0119** |
| Stddev | .0093 | .052 | .0030 | .187 | .00456 | .00058 | .0123 | .00023 | .0022 | .0027 | .00026 | .0019 |
| %RSD | .43514 | .09824 | .27919 | .96843 | .90786 | .12042 | .24445 | .04648 | .21986 | .26683 | .96900 | .18445 |
| #1 | 2.1385 | 53.317 | 1.0729 | 19.391 | .50605 | .48054 | 5.0367 | .49913 | 1.0112 | 1.0101 | -.02707 | 1.0106 |
| #2 | 2.1517 | 53.243 | 1.0687 | 19.127 | .49960 | .48136 | 5.0194 | .49946 | 1.0081 | 1.0139 | -.02745 | 1.0132 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0284** | F **4.3576** | **.95964** | **.52706** | **.00476** | **.50288** | **.97193** | **-.03860** | **.48730** | **.48394** | **.48068** |
| Stddev | .0044 | .0228 | .00353 | .00018 | .00144 | .00481 | .00039 | .01579 | .00396 | .00412 | .00167 |
| %RSD | .43123 | .52399 | .36774 | .03441 | 30.226 | .95675 | .04061 | 40.895 | .81207 | .85141 | .34810 |
| #1 | 1.0252 | 4.3415 | .95715 | .52718 | .00578 | .50629 | .97165 | -.04977 | .49010 | .48685 | .47950 |
| #2 | 1.0315 | 4.3737 | .96214 | .52693 | .00374 | .49948 | .97221 | -.02744 | .48450 | .48103 | .48186 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5930.3** | **74910.** | **4312.5** |
| Stddev | 14.5 | 593. | 8.9 |
| %RSD | .24452 | .79193 | .20706 |
| #1 | 5920.0 | 74490. | 4306.2 |
| #2 | 5940.5 | 75329. | 4318.8 |

Sample Name: CCB Acquired: 5/17/2013 6:45:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00165** | **.00045** | W **.00507** | **-.00004** | W **-.00069** | **-.00008** | **.00341** | **-.00531** | **-.00013** | **.00046** | **.00026** |
| Stddev | .00033 | .00004 | .00149 | .00039 | .00008 | .00009 | .00129 | .00654 | .00000 | .00030 | .00010 |
| %RSD | 19.931 | 7.7632 | 29.450 | 865.18 | 11.135 | 113.67 | 37.807 | 123.32 | .48822 | 64.945 | 39.484 |
| #1 | .00188 | .00048 | .00402 | .00023 | -.00063 | -.00014 | .00250 | -.00068 | -.00013 | .00025 | .00018 |
| #2 | .00142 | .00043 | .00613 | -.00032 | -.00074 | -.00002 | .00432 | -.00993 | -.00013 | .00067 | .00033 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | .00440 | | .00058 | | | | | | |
| Low Limit | -.00093 | | -.00440 | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00184** | **-.00224** | **.04377** | W **-.00469** | **-.00025** | **-.00006** | **-.00029** | **-.07271** | **.00038** | **.00022** | **.00014** |
| Stddev | .00050 | .00101 | .06293 | .00160 | .00068 | .00002 | .00018 | .00931 | .00034 | .00125 | .00021 |
| %RSD | 26.981 | 44.966 | 143.77 | 34.056 | 272.51 | 34.582 | 60.569 | 12.809 | 89.819 | 560.04 | 148.23 |
| #1 | -.00149 | -.00295 | .08826 | -.00582 | .00023 | -.00004 | -.00042 | -.07930 | .00014 | -.00066 | -.00001 |
| #2 | -.00219 | -.00152 | -.00073 | -.00356 | -.00073 | -.00007 | -.00017 | -.06613 | .00062 | .00111 | .00029 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | .00261 | | | | | | | |
| Low Limit | -.00136 | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02900** | **-.00050** | **.00186** | **-.01247** | **-.00013** | **.00010** | **.00215** | **-.00019** | **.00008** | **-.00895** | **-.00099** |
| Stddev | .00002 | .00169 | .00063 | .01120 | .00041 | .00019 | .00086 | .00024 | .00158 | .03080 | .00031 |
| %RSD | .06572 | 339.46 | 33.621 | 89.820 | 306.97 | 189.48 | 40.203 | 125.61 | 2098.8 | 343.99 | 31.430 |
| #1 | -.02898 | -.00169 | .00142 | -.00455 | -.00042 | -.00003 | .00276 | -.00035 | -.00105 | -.03073 | -.00121 |
| #2 | -.02901 | .00070 | .00230 | -.02039 | .00015 | .00023 | .00154 | -.00002 | .00120 | .01283 | -.00077 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00158** | W **.00474** |
| Stddev | .00013 | .00090 |
| %RSD | 8.0513 | 19.013 |
| #1 | .00149 | .00538 |
| #2 | .00167 | .00410 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6016.0** | **76524.** | **4322.7** |
| Stddev | 3.6 | 80. | 3.5 |
| %RSD | .05962 | .10457 | .08179 |
| #1 | 6013.5 | 76467. | 4320.2 |
| #2 | 6018.6 | 76581. | 4325.2 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 6:48:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01225** | **.10433** | **.01766** | **.10438** | **.01010** | **.00100** | **.10330** | **.19415** | **.00517** | **.01093** | **.01058** |
| Stddev | .00066 | .00061 | .00354 | .00038 | .00033 | .00009 | .00311 | .00350 | .00003 | .00030 | .00010 |
| %RSD | 5.4111 | .58471 | 20.064 | .36398 | 3.2507 | 8.8653 | 3.0140 | 1.8034 | .65466 | 2.7607 | .97719 |
| #1 | .01178 | .10476 | .02016 | .10465 | .01033 | .00107 | .10110 | .19663 | .00515 | .01115 | .01051 |
| #2 | .01272 | .10390 | .01515 | .10411 | .00986 | .00094 | .10550 | .19168 | .00520 | .01072 | .01066 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01369** | **.08493** | **3.3424** | F **.00469** | **.20426** | **.01041** | **.01922** | **.98033** | **.04099** | **3.0127** | **.00947** |
| Stddev | .00032 | .00028 | .0347 | .00167 | .00193 | .00012 | .00033 | .01739 | .00010 | .0125 | .00037 |
| %RSD | 2.3430 | .32698 | 1.0382 | 35.577 | .94370 | 1.1668 | 1.7200 | 1.7736 | .24543 | .41372 | 3.9118 |
| #1 | .01347 | .08473 | 3.3669 | .00587 | .20562 | .01033 | .01945 | .96804 | .04106 | 3.0215 | .00973 |
| #2 | .01392 | .08513 | 3.3178 | .00351 | .20289 | .01050 | .01899 | .99263 | .04092 | 3.0038 | .00921 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03169** | **.00992** | **.01376** | **.44174** | **.09919** | **.01075** | W **.01866** | **.01004** | **.01443** | F **.02559** | **.00895** |
| Stddev | .00331 | .00073 | .00407 | .00147 | .00003 | .00005 | .00138 | .00008 | .00174 | .00135 | .00032 |
| %RSD | 10.459 | 7.3925 | 29.589 | .33314 | .03270 | .45773 | 7.3993 | .79121 | 12.060 | 5.2709 | 3.6306 |
| #1 | -.03403 | .00940 | .01088 | .44278 | .09917 | .01072 | .01964 | .01009 | .01320 | .02463 | .00872 |
| #2 | -.02934 | .01043 | .01664 | .44070 | .09922 | .01079 | .01769 | .00998 | .01566 | .02654 | .00918 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | .01500 | | | .06000 | |
| Range | | | | | | | 20.000% | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02350** | W **.01806** |
| Stddev | .00025 | .00139 |
| %RSD | 1.0847 | 7.7079 |
| #1 | .02332 | .01905 |
| #2 | .02368 | .01708 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6003.1** | **76602.** | **4383.9** |
| Stddev | 11.1 | 76. | 60.0 |
| %RSD | .18482 | .09878 | 1.3681 |
| #1 | 5995.3 | 76549. | 4341.5 |
| #2 | 6010.9 | 76656. | 4426.3 |

Sample Name: MB 280-172569/1-A Acquired: 5/17/2013 6:50:53 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00168** | **.00409** | **.00323** | **.00266** | **-.00041** | **-.00000** | **-.00143** | W **.19214** | **-.00002** |
| Stddev | .00015 | .00020 | .00057 | .00012 | .00013 | .00004 | .00189 | .00044 | .00004 |
| %RSD | 9.1157 | 4.8146 | 17.744 | 4.4623 | 31.271 | 2587.8 | 132.29 | .22774 | 247.59 |
| #1 | .00179 | .00395 | .00364 | .00274 | -.00050 | .00003 | -.00009 | .19183 | -.00005 |
| #2 | .00157 | .00423 | .00283 | .00257 | -.00032 | -.00003 | -.00276 | .19245 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | .10000 | |
| Low Limit | | | | | | | | -.10000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00023** | **-.00139** | **.02355** | **.00753** | **-.00471** | F **.12318** | **.00437** | **-.00013** |
| Stddev | .00008 | .00002 | .00014 | .00170 | .04742 | .00094 | .00210 | .00001 | .00007 |
| %RSD | 35.987 | 8.0578 | 10.322 | 7.2040 | 629.57 | 19.972 | 1.7020 | .21851 | 51.890 |
| #1 | .00017 | .00021 | -.00129 | .02235 | .04107 | -.00537 | .12169 | .00436 | -.00018 |
| #2 | .00029 | .00024 | -.00149 | .02475 | -.02600 | -.00404 | .12466 | .00437 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | |
| Low Limit | | | | | | | -.10000 | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03966** | **-.00010** | F **.16352** | **-.00080** | **.19958** | **-.00123** | **.00352** | **.02033** | **.00060** |
| Stddev | .01079 | .00029 | .00207 | .00123 | .00040 | .00014 | .00050 | .01339 | .00038 |
| %RSD | 27.216 | 295.46 | 1.2639 | 154.31 | .19881 | 11.189 | 14.286 | 65.863 | 62.751 |
| #1 | -.04730 | -.00031 | .16498 | .00007 | .19986 | -.00133 | .00388 | .02980 | .00086 |
| #2 | -.03203 | .00011 | .16206 | -.00167 | .19930 | -.00113 | .00317 | .01086 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00214** | **-.00006** | **-.00176** | **-.01853** | **-.00126** | **.00295** | **.00456** |
| Stddev | .00007 | .00132 | .00039 | .00036 | .01207 | .00026 | .00036 | .00102 |
| %RSD | 25.502 | 61.767 | 632.71 | 20.324 | 65.122 | 20.501 | 12.150 | 22.384 |
| #1 | .00032 | .00307 | -.00034 | -.00151 | -.02706 | -.00108 | .00269 | .00384 |
| #2 | .00022 | .00120 | .00021 | -.00202 | -.01000 | -.00145 | .00320 | .00528 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6000.5** | **76576.** | **4353.9** |
| Stddev | 7.8 | 238. | 32.0 |
| %RSD | .13006 | .31090 | .73509 |
| #1 | 5995.0 | 76407. | 4331.3 |
| #2 | 6006.0 | 76744. | 4376.6 |

Sample Name: LCS 280-172569/2-A Acquired: 5/17/2013 6:53:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05404** | **1.9051** | **.97947** | **1.0550** | **2.0874** | **.04607** | **2.0124** | **46.136** | **.10163** |
| Stddev | .00060 | .0048 | .00534 | .0004 | .0117 | .00008 | .0042 | .217 | .00012 |
| %RSD | 1.1032 | .25001 | .54537 | .04029 | .56031 | .16438 | .20850 | .46999 | .12036 |
| #1 | .05446 | 1.9085 | .98325 | 1.0553 | 2.0792 | .04601 | 2.0153 | 45.983 | .10154 |
| #2 | .05362 | 1.9018 | .97570 | 1.0547 | 2.0957 | .04612 | 2.0094 | 46.289 | .10172 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49867** | **.19373** | **.23936** | F **.87974** | **53.677** | **1.0645** | **47.225** | **.48997** | **.96252** |
| Stddev | .00087 | .00018 | .00005 | .00239 | .102 | .0065 | .030 | .00016 | .00117 |
| %RSD | .17360 | .09384 | .02034 | .27163 | .18985 | .60790 | .06336 | .03288 | .12130 |
| #1 | .49928 | .19360 | .23940 | .88143 | 53.605 | 1.0599 | 47.204 | .48985 | .96335 |
| #2 | .49805 | .19386 | .23933 | .87805 | 53.749 | 1.0691 | 47.246 | .49008 | .96170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.855** | **.48107** | **10.393** | **.49635** | **-.02602** | **.51229** | **2.0580** | F **8.9312** | **1.9025** |
| Stddev | .335 | .00131 | .032 | .00030 | .00175 | .00104 | .0031 | .0042 | .0043 |
| %RSD | .59920 | .27149 | .30441 | .05980 | 6.7124 | .20252 | .15006 | .04662 | .22321 |
| #1 | 56.091 | .48199 | 10.416 | .49656 | -.02478 | .51302 | 2.0602 | 8.9282 | 1.9055 |
| #2 | 55.618 | .48014 | 10.371 | .49614 | -.02725 | .51156 | 2.0558 | 8.9341 | 1.8995 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 11.500 | |
| Low Limit | | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0444** | **1.0248** | **1.0019** | **1.9205** | **2.0044** | **.48390** | **.46993** | **.47101** |
| Stddev | .0065 | .0023 | .0027 | .0083 | .0233 | .00019 | .00084 | .00234 |
| %RSD | .62525 | .22465 | .26895 | .43198 | 1.1604 | .03989 | .17900 | .49647 |
| #1 | 1.0397 | 1.0231 | 1.0000 | 1.9263 | 1.9880 | .48377 | .47053 | .47267 |
| #2 | 1.0490 | 1.0264 | 1.0038 | 1.9146 | 2.0209 | .48404 | .46934 | .46936 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5814.0** | **74346.** | **4299.8** |
| Stddev | 7.2 | 168. | 8.0 |
| %RSD | .12442 | .22598 | .18628 |
| #1 | 5808.9 | 74465. | 4294.1 |
| #2 | 5819.1 | 74227. | 4305.4 |

Sample Name: 280-41739-A-6-A Acquired: 5/17/2013 6:55:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00272** | **.14993** | **.04714** | **2.4969** | **.15275** | **-.00006** | **-.00300** | **175.32** | **.00029** |
| Stddev | .00024 | .00046 | .00242 | .0024 | .00028 | .00009 | .00102 | .51 | .00017 |
| %RSD | 8.8845 | .30525 | 5.1406 | .09417 | .18400 | 151.53 | 33.890 | .29154 | 58.181 |
| #1 | .00255 | .14960 | .04542 | 2.4952 | .15255 | -.00013 | -.00228 | 175.68 | .00017 |
| #2 | .00289 | .15025 | .04885 | 2.4985 | .15295 | .00000 | -.00371 | 174.96 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01383** | **.00129** | **.00017** | **23.336** | **1.3628** | **-.00247** | **110.70** | **4.1316** | **.00022** |
| Stddev | .00007 | .00006 | .00024 | .088 | .0161 | .00222 | .14 | .0036 | .00002 |
| %RSD | .50021 | 4.5503 | 142.68 | .37589 | 1.1791 | 90.050 | .12434 | .08782 | 11.138 |
| #1 | .01378 | .00134 | -.00000 | 23.398 | 1.3742 | -.00090 | 110.60 | 4.1291 | .00020 |
| #2 | .01388 | .00125 | .00034 | 23.274 | 1.3514 | -.00404 | 110.80 | 4.1342 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **30.812** | **.00303** | **.16312** | **.00162** | **236.37** | **-.00209** | **.00458** | **6.0874** | **.00041** |
| Stddev | .561 | .00001 | .00060 | .00082 | .15 | .00086 | .00165 | .0714 | .00010 |
| %RSD | 1.8221 | .29923 | .36987 | 50.920 | .06429 | 41.007 | 36.049 | 1.1726 | 24.393 |
| #1 | 31.209 | .00303 | .16355 | .00220 | 236.47 | -.00148 | .00575 | 6.1379 | .00048 |
| #2 | 30.415 | .00302 | .16270 | .00103 | 236.26 | -.00270 | .00342 | 6.0369 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35026** | **.00864** | **.00244** | **-.00146** | **-.04710** | **-.00034** | **.00504** | **.00434** |
| Stddev | .00076 | .00232 | .00037 | .00165 | .01758 | .00005 | .00019 | .00441 |
| %RSD | .21594 | 26.847 | 14.991 | 113.11 | 37.327 | 15.463 | 3.8568 | 101.64 |
| #1 | .35079 | .00700 | .00219 | -.00029 | -.03467 | -.00031 | .00490 | .00746 |
| #2 | .34972 | .01029 | .00270 | -.00263 | -.05954 | -.00038 | .00518 | .00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5737.7** | **73796.** | **4341.0** |
| Stddev | 20.5 | 183. | 8.1 |
| %RSD | .35790 | .24823 | .18609 |
| #1 | 5723.1 | 73926. | 4335.3 |
| #2 | 5752.2 | 73667. | 4346.7 |

Sample Name: sd 280-41739-A-6-A@5 Acquired: 5/17/2013 6:58:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00248** | **.03284** | **.01246** | **.51018** | **.03060** | **-.00005** | **.00067** | **36.017** | **.00000** |
| Stddev | .00025 | .00020 | .00075 | .00257 | .00007 | .00000 | .00012 | .173 | .00003 |
| %RSD | 9.9507 | .62369 | 6.0188 | .50445 | .24333 | 4.7467 | 17.615 | .48051 | 2022.1 |
| #1 | .00266 | .03269 | .01299 | .51200 | .03055 | -.00004 | .00059 | 35.895 | -.00002 |
| #2 | .00231 | .03298 | .01193 | .50836 | .03065 | -.00005 | .00076 | 36.139 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00319** | **.00044** | **-.00124** | **4.9186** | **.26017** | **-.00335** | **22.644** | **.86122** | **-.00017** |
| Stddev | .00000 | .00002 | .00009 | .0071 | .03310 | .00145 | .037 | .00073 | .00013 |
| %RSD | .01991 | 5.2114 | 6.8523 | .14518 | 12.722 | 43.229 | .16226 | .08428 | 75.376 |
| #1 | .00319 | .00043 | -.00118 | 4.9135 | .23676 | -.00437 | 22.618 | .86071 | -.00026 |
| #2 | .00319 | .00046 | -.00130 | 4.9236 | .28357 | -.00232 | 22.670 | .86174 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.4514** | **.00075** | **.03388** | **-.00012** | **47.350** | **-.00199** | **.00018** | **1.2113** | **.00036** |
| Stddev | .0271 | .00001 | .00232 | .00072 | .027 | .00044 | .00180 | .0135 | .00013 |
| %RSD | .49699 | 1.3443 | 6.8471 | 606.01 | .05723 | 22.345 | 1026.1 | 1.1131 | 36.168 |
| #1 | 5.4323 | .00075 | .03552 | -.00062 | 47.369 | -.00168 | -.00110 | 1.2017 | .00027 |
| #2 | 5.4706 | .00076 | .03224 | .00039 | 47.331 | -.00231 | .00145 | 1.2208 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07269** | **.00208** | **.00046** | **-.00030** | **-.03196** | **-.00125** | **.00597** | **.00392** |
| Stddev | .00015 | .00032 | .00057 | .00135 | .03992 | .00014 | .00026 | .00012 |
| %RSD | .21208 | 15.328 | 124.02 | 452.45 | 124.90 | 11.280 | 4.2982 | 2.9844 |
| #1 | .07280 | .00185 | .00087 | .00065 | -.06019 | -.00115 | .00579 | .00400 |
| #2 | .07258 | .00230 | .00006 | -.00125 | -.00373 | -.00135 | .00616 | .00383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6027.8** | **77348.** | **4501.6** |
| Stddev | 6.4 | 8. | 17.3 |
| %RSD | .10589 | .01015 | .38386 |
| #1 | 6032.3 | 77354. | 4513.8 |
| #2 | 6023.2 | 77343. | 4489.3 |

Sample Name: 280-41739-A-6-B MS  Acquired: 5/17/2013 7:00:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05390** | **2.2206** | **1.0203** | **3.4996** | **2.1753** | **.04262** | **2.0036** | **211.32** | **.09972** |
| Stddev | .00039 | .0011 | .0019 | .0031 | .0053 | .00020 | .0036 | .02 | .00013 |
| %RSD | .73027 | .04770 | .18544 | .08742 | .24348 | .46913 | .17956 | .01049 | .12672 |
| #1 | .05363 | 2.2214 | 1.0217 | 3.5018 | 2.1791 | .04277 | 2.0062 | 211.34 | .09981 |
| #2 | .05418 | 2.2199 | 1.0190 | 3.4974 | 2.1716 | .04248 | 2.0011 | 211.31 | .09963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48210** | **.18461** | **.23478** | **23.038** | **54.194** | **1.0385** | **149.54** | **4.3342** | **.95249** |
| Stddev | .00052 | .00030 | .00005 | .022 | .010 | .0029 | .24 | .0405 | .00276 |
| %RSD | .10754 | .16197 | .02159 | .09392 | .01920 | .27866 | .16055 | .93463 | .29007 |
| #1 | .48247 | .18482 | .23475 | 23.053 | 54.201 | 1.0405 | 149.71 | 4.3056 | .95444 |
| #2 | .48173 | .18439 | .23482 | 23.022 | 54.186 | 1.0364 | 149.37 | 4.3629 | .95054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **83.836** | **.45652** | **10.305** | **.47574** | **234.88** | **.51663** | **2.0380** | **15.263** | **1.8715** |
| Stddev | .094 | .00063 | .015 | .00012 | .26 | .00200 | .0046 | .032 | .0031 |
| %RSD | .11178 | .13732 | .14800 | .02529 | .10974 | .38777 | .22526 | .21024 | .16551 |
| #1 | 83.770 | .45696 | 10.316 | .47565 | 235.06 | .51522 | 2.0413 | 15.240 | 1.8737 |
| #2 | 83.902 | .45608 | 10.295 | .47582 | 234.70 | .51805 | 2.0348 | 15.286 | 1.8693 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3343** | **.98060** | **.98004** | **1.8365** | **1.8784** | **.46275** | **.43752** | **.45619** |
| Stddev | .0002 | .00681 | .00002 | .0050 | .0453 | .00114 | .00118 | .00166 |
| %RSD | .01780 | .69417 | .00250 | .27116 | 2.4134 | .24537 | .26882 | .36444 |
| #1 | 1.3341 | .97579 | .98006 | 1.8400 | 1.9105 | .46195 | .43669 | .45737 |
| #2 | 1.3344 | .98541 | .98003 | 1.8329 | 1.8464 | .46356 | .43835 | .45502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5684.3** | **74018.** | **4360.4** |
| Stddev | 3.1 | 50. | 1.2 |
| %RSD | .05469 | .06722 | .02861 |
| #1 | 5682.1 | 74053. | 4361.3 |
| #2 | 5686.5 | 73982. | 4359.5 |

Sample Name: 280-41739-A-6-C MSD  Acquired: 5/17/2013 7:02:48  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05510** | **2.1979** | **1.0099** | **3.4731** | **2.1474** | **.04163** | **2.0165** | **205.99** | **.09938** |
| Stddev | .00051 | .0023 | .0015 | .0012 | .0237 | .00019 | .0004 | 2.43 | .00010 |
| %RSD | .92864 | .10481 | .14637 | .03468 | 1.1031 | .45318 | .01943 | 1.1802 | .09649 |
| #1 | .05474 | 2.1995 | 1.0089 | 3.4723 | 2.1642 | .04177 | 2.0167 | 207.71 | .09932 |
| #2 | .05546 | 2.1962 | 1.0110 | 3.4740 | 2.1307 | .04150 | 2.0162 | 204.28 | .09945 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47232** | **.17906** | **.22935** | **22.261** | **54.424** | **1.0286** | **146.23** | **4.2007** | **.91282** |
| Stddev | .00048 | .00007 | .00029 | .245 | .686 | .0138 | .65 | .0400 | .00002 |
| %RSD | .10190 | .03930 | .12855 | 1.1021 | 1.2602 | 1.3400 | .44302 | .95255 | .00211 |
| #1 | .47198 | .17911 | .22914 | 22.434 | 54.909 | 1.0384 | 145.77 | 4.1724 | .91281 |
| #2 | .47266 | .17901 | .22956 | 22.087 | 53.939 | 1.0189 | 146.69 | 4.2289 | .91283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **83.397** | **.44645** | **10.199** | **.47252** | **236.22** | **.50190** | **2.0455** | **15.038** | **1.7872** |
| Stddev | .082 | .00185 | .023 | .00130 | .12 | .00012 | .0040 | .070 | .0019 |
| %RSD | .09863 | .41356 | .22864 | .27612 | .05100 | .02405 | .19767 | .46539 | .10597 |
| #1 | 83.338 | .44776 | 10.216 | .47344 | 236.13 | .50198 | 2.0426 | 15.087 | 1.7885 |
| #2 | 83.455 | .44515 | 10.183 | .47160 | 236.30 | .50181 | 2.0483 | 14.988 | 1.7859 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3023** | **.94314** | **.92799** | **1.8476** | **1.8468** | **.45248** | **.42741** | **.43570** |
| Stddev | .0149 | .00659 | .00230 | .0048 | .0015 | .00055 | .00178 | .00068 |
| %RSD | 1.1465 | .69836 | .24830 | .26152 | .08247 | .12079 | .41584 | .15599 |
| #1 | 1.3129 | .93848 | .92636 | 1.8511 | 1.8479 | .45209 | .42615 | .43522 |
| #2 | 1.2918 | .94780 | .92962 | 1.8442 | 1.8457 | .45286 | .42867 | .43618 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5743.7** | **74703.** | **4363.6** |
| Stddev | 23.7 | 225. | 77.1 |
| %RSD | .41192 | .30123 | 1.7675 |
| #1 | 5727.0 | 74863. | 4309.1 |
| #2 | 5760.5 | 74544. | 4418.1 |

Sample Name: 280-41739-A-15-A  Acquired: 5/17/2013 7:05:11  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00298** | **.01310** | **.05436** | **2.5279** | **.10575** | **-.00008** | **-.00070** | **175.73** | **.00023** |
| Stddev | .00012 | .00009 | .00066 | .0108 | .00052 | .00000 | .00028 | .40 | .00008 |
| %RSD | 3.8930 | .70520 | 1.2086 | .42546 | .49635 | 2.2181 | 40.153 | .22894 | 35.596 |
| #1 | .00290 | .01316 | .05483 | 2.5203 | .10612 | -.00008 | -.00089 | 175.45 | .00017 |
| #2 | .00307 | .01303 | .05390 | 2.5355 | .10538 | -.00008 | -.00050 | 176.02 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01363** | **.00089** | **-.00055** | **25.506** | **1.3505** | **-.00224** | **110.85** | **4.0811** | **-.00017** |
| Stddev | .00031 | .00005 | .00003 | .063 | .0144 | .00150 | .10 | .0164 | .00016 |
| %RSD | 2.2942 | 5.8508 | 5.5474 | .24596 | 1.0636 | 66.821 | .09178 | .40280 | 96.098 |
| #1 | .01341 | .00086 | -.00052 | 25.461 | 1.3607 | -.00118 | 110.93 | 4.0695 | -.00005 |
| #2 | .01385 | .00093 | -.00057 | 25.550 | 1.3404 | -.00330 | 110.78 | 4.0928 | -.00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **30.966** | **.00318** | **.18943** | **.00282** | **239.07** | **-.00198** | **-.00128** | **6.0185** | **.00045** |
| Stddev | .158 | .00023 | .00144 | .00226 | 1.02 | .00322 | .00074 | .0182 | .00066 |
| %RSD | .51081 | 7.3469 | .75766 | 80.165 | .42742 | 163.10 | 57.583 | .30328 | 148.40 |
| #1 | 31.078 | .00302 | .18842 | .00122 | 238.34 | .00030 | -.00076 | 6.0314 | .00092 |
| #2 | 30.854 | .00335 | .19045 | .00443 | 239.79 | -.00425 | -.00181 | 6.0056 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35432** | **.00999** | **.00092** | **-.00127** | W **-.08626** | **-.00065** | **.00477** | **.00167** |
| Stddev | .00047 | .00009 | .00026 | .00080 | .00474 | .00037 | .00027 | .00030 |
| %RSD | .13286 | .90708 | 27.976 | 63.105 | 5.4903 | 56.899 | 5.7411 | 18.194 |
| #1 | .35398 | .00992 | .00111 | -.00070 | -.08961 | -.00091 | .00496 | .00146 |
| #2 | .35465 | .01005 | .00074 | -.00184 | -.08291 | -.00039 | .00457 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5908.6** | **76566.** | **4504.6** |
| Stddev | .3 | 96. | 26.3 |
| %RSD | .00541 | .12564 | .58484 |
| #1 | 5908.8 | 76498. | 4485.9 |
| #2 | 5908.4 | 76634. | 4523.2 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 7:07:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00643** | **47.043** | k **.00063** | **.00852** | k **-.00094** | k **-.00008** | k **.99362** | k **-.00821** | k **-.00088** | k **.00237** | k **.00042** | k **.00295** |
| Stddev | .00719 | .317 | .00595 | .00018 | .00047 | .00004 | .02478 | .00588 | .00007 | .00027 | .00024 | .00789 |
| %RSD | 111.86 | .67444 | 941.64 | 2.1211 | 49.609 | 47.119 | 2.4936 | 71.628 | 7.4574 | 11.393 | 58.410 | 267.42 |
| #1 | .00134 | 47.268 | .00484 | .00865 | -.00127 | -.00006 | 1.0111 | -.00405 | -.00083 | .00218 | .00024 | -.00263 |
| #2 | k .01151 | 46.819 | k -.00358 | .00839 | k -.00061 | k -.00011 | k .97610 | k -.01237 | k -.00093 | k .00256 | k .00059 | k .00852 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.844** | **.01501** | k **-.00332** | k **-.09173** | **-.00014** | **-.00211** | **270.79** | **.00125** | **.01091** | k **.00276** | **5.2095** | k **-.01207** |
| Stddev | .436 | .06342 | .00121 | .14596 | .00000 | .00010 | 2.17 | .00042 | .00122 | .00608 | .0059 | .01496 |
| %RSD | .97266 | 422.62 | 36.397 | 159.12 | 1.9914 | 4.5936 | .79955 | 33.872 | 11.167 | 219.95 | .11355 | 123.94 |
| #1 | 45.152 | -.02984 | -.00247 | .01148 | -.00014 | -.00218 | 272.32 | .00095 | .01004 | -.00153 | 5.2053 | -.00149 |
| #2 | k 44.535 | .05985 | k -.00418 | k -.19494 | -.00014 | -.00204 | 269.26 | .00155 | .01177 | k .00706 | 5.2137 | k -.02265 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00153** | k **.00102** | k **.00094** | **.00043** | k **5.2958** | k **.01063** | k **-.00299** | k **10.011** | k **-.00173** | k **.00341** | k **.07211** |
| Stddev | .01628 | .00350 | .00076 | .00010 | .2118 | .00926 | .00229 | .007 | .00188 | .00009 | .18181 |
| %RSD | 1061.8 | 343.34 | 80.686 | 23.048 | 3.9995 | 87.153 | 76.624 | .07243 | 108.53 | 2.7591 | 252.12 |
| #1 | .00998 | -.00146 | .00040 | .00036 | 5.1460 | .00408 | -.00137 | 10.006 | -.00307 | .00348 | -.05645 |
| #2 | k -.01305 | k .00350 | k .00147 | .00050 | k 5.4455 | k .01718 | k -.00461 | k 10.016 | k -.00040 | k .00334 | k .20068 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6129.7** | **78422.** | **4636.0** |
| Stddev | 7.6 | 429. | 44.9 |
| %RSD | .12330 | .54657 | .96821 |
| #1 | 6124.3 | 78725. | 4604.2 |
| #2 | 6135.0 | 78119. | 4667.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 7:10:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51068** | **.49805** | **.99080** | **.52912** | **.51701** | **.45638** | **.00559** | **4.7015** | **.50529** | **.51458** | **.49345** | **.48958** |
| Stddev | .00029 | .00004 | .00013 | .00046 | .00202 | .00092 | .00132 | .0142 | .00022 | .00070 | .00047 | .00169 |
| %RSD | .05719 | .00886 | .01315 | .08659 | .39073 | .20267 | 23.543 | .30157 | .04364 | .13569 | .09577 | .34614 |
| #1 | .51047 | .49808 | .99089 | .52880 | .51558 | .45572 | .00652 | 4.6914 | .50513 | .51409 | .49312 | .49077 |
| #2 | .51088 | .49801 | .99071 | .52945 | .51844 | .45703 | .00466 | 4.7115 | .50544 | .51508 | .49379 | .48838 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1383** | **53.217** | **1.0657** | **19.101** | **.50034** | **.48606** | **4.9896** | **.49966** | **1.0208** | **1.0169** | **.00885** | **1.0294** |
| Stddev | .0052 | .071 | .0048 | .073 | .00191 | .00121 | .0087 | .00216 | .0020 | .0048 | .00308 | .0022 |
| %RSD | .24263 | .13436 | .45210 | .38138 | .38166 | .24930 | .17397 | .43265 | .19459 | .47461 | 34.779 | .21093 |
| #1 | 2.1346 | 53.166 | 1.0623 | 19.152 | .50169 | .48692 | 4.9958 | .49813 | 1.0222 | 1.0203 | .01103 | 1.0310 |
| #2 | 2.1419 | 53.268 | 1.0691 | 19.049 | .49899 | .48520 | 4.9835 | .50119 | 1.0194 | 1.0135 | .00668 | 1.0279 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0404** | F **4.3739** | **.96630** | **.52687** | **.00268** | **.50197** | **.98330** | **-.03670** | **.48387** | **.47617** | **.47877** |
| Stddev | .0064 | .0322 | .00115 | .00084 | .00100 | .00086 | .00244 | .01925 | .00267 | .00569 | .00366 |
| %RSD | .61466 | .73612 | .11934 | .15888 | 37.431 | .17078 | .24858 | 52.460 | .55097 | 1.1948 | .76530 |
| #1 | 1.0449 | 4.3512 | .96549 | .52628 | .00338 | .50258 | .98503 | -.02308 | .48575 | .48020 | .47618 |
| #2 | 1.0359 | 4.3967 | .96712 | .52746 | .00197 | .50137 | .98157 | -.05031 | .48198 | .47215 | .48136 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6255.7** | **80003.** | **4692.7** |
| Stddev | 14.2 | 484. | 10.2 |
| %RSD | .22720 | .60477 | .21821 |
| #1 | 6265.8 | 79661. | 4685.5 |
| #2 | 6245.7 | 80345. | 4700.0 |

Sample Name: CCB Acquired: 5/17/2013 7:12:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00221** | **.00053** | W **.00566** | W **.00294** | F **-.00145** | **-.00002** | **.00284** | **-.00722** | **-.00018** | **.00030** | **.00034** |
| Stddev | .00009 | .00002 | .00040 | .00047 | .00008 | .00005 | .00063 | .00089 | .00010 | .00013 | .00003 |
| %RSD | 3.9590 | 4.6377 | 7.0579 | 15.821 | 5.3614 | 312.71 | 22.098 | 12.281 | 57.554 | 44.223 | 8.2539 |
| #1 | .00228 | .00052 | .00538 | .00327 | -.00140 | .00002 | .00328 | -.00785 | -.00011 | .00021 | .00036 |
| #2 | .00215 | .00055 | .00594 | .00261 | -.00151 | -.00005 | .00240 | -.00660 | -.00026 | .00039 | .00032 |
| Check ? | Chk Fail | Chk Pass | Chk Warn | Chk Warn | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | .00440 | .00156 | .00115 | | | | | | |
| Low Limit | -.00180 | | -.00440 | -.00156 | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00151** | **.00731** | **.02980** | F **-.00638** | **.00103** | **.00003** | **-.00029** | **-.08122** | **.00036** | **.00122** | **-.00066** |
| Stddev | .00031 | .00012 | .05029 | .00072 | .00344 | .00004 | .00016 | .00436 | .00013 | .00045 | .00099 |
| %RSD | 20.740 | 1.5939 | 168.76 | 11.264 | 335.57 | 142.27 | 53.575 | 5.3718 | 36.075 | 36.636 | 150.31 |
| #1 | -.00173 | .00723 | -.00576 | -.00689 | .00346 | .00006 | -.00040 | -.08431 | .00045 | .00153 | .00004 |
| #2 | -.00129 | .00739 | .06536 | -.00587 | -.00141 | -.00000 | -.00018 | -.07814 | .00027 | .00090 | -.00136 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | .00522 | | | | | | | |
| Low Limit | -.00136 | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00224** | **-.00135** | **.00105** | **-.00198** | **-.00032** | **.00004** | **.00124** | **-.00012** | **.00023** | **-.02908** | W **-.00121** |
| Stddev | .00381 | .00159 | .00081 | .00971 | .00057 | .00013 | .00124 | .00017 | .00012 | .03785 | .00049 |
| %RSD | 169.63 | 118.26 | 77.436 | 489.98 | 180.73 | 297.74 | 100.10 | 138.82 | 54.737 | 130.14 | 40.604 |
| #1 | .00045 | -.00247 | .00162 | .00489 | -.00072 | .00014 | .00036 | -.00024 | .00032 | -.05585 | -.00156 |
| #2 | -.00494 | -.00022 | .00047 | -.00885 | .00009 | -.00005 | .00211 | -.00000 | .00014 | -.00232 | -.00086 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00269** | W **.00363** |
| Stddev | .00023 | .00035 |
| %RSD | 8.3923 | 9.5426 |
| #1 | .00285 | .00338 |
| #2 | .00253 | .00387 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6323.2** | **81615.** | **4671.9** |
| Stddev | 4.9 | 110. | 5.6 |
| %RSD | .07753 | .13463 | .12061 |
| #1 | 6326.7 | 81538. | 4667.9 |
| #2 | 6319.7 | 81693. | 4675.9 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 7:14:51 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.01314** | **.10527** | **.01719** | **.10864** | **.00927** | **.00090** | **.10565** | **.18967** | **.00514** | **.01102** | **.01051** |
| Stddev | .00020 | .00027 | .00192 | .00044 | .00012 | .00002 | .00202 | .00215 | .00004 | .00005 | .00006 |
| %RSD | 1.5090 | .25902 | 11.169 | .40288 | 1.2862 | 2.3634 | 1.9164 | 1.1329 | .84119 | .49463 | .57634 |
| #1 | .01328 | .10546 | .01855 | .10833 | .00935 | .00092 | .10422 | .19119 | .00511 | .01105 | .01055 |
| #2 | .01300 | .10507 | .01584 | .10895 | .00918 | .00089 | .10708 | .18815 | .00517 | .01098 | .01046 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 30.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01337** | **.08626** | **3.3313** | F **.00626** | **.20361** | **.01038** | **.01921** | **.98608** | **.04146** | **3.0459** | **.01048** |
| Stddev | .00008 | .00049 | .0554 | .00052 | .00023 | .00003 | .00045 | .00667 | .00003 | .0053 | .00102 |
| %RSD | .60087 | .56543 | 1.6622 | 8.3010 | .11120 | .30672 | 2.3380 | .67656 | .07078 | .17542 | 9.6952 |
| #1 | .01343 | .08660 | 3.3705 | .00662 | .20377 | .01041 | .01889 | .99080 | .04144 | 3.0421 | .00977 |
| #2 | .01331 | .08591 | 3.2922 | .00589 | .20345 | .01036 | .01952 | .98137 | .04148 | 3.0497 | .01120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00678** | **.00972** | **.01624** | **.44499** | **.09920** | **.01097** | W **.01849** | **.01000** | **.01502** | F **.00879** | **.00857** |
| Stddev | .00041 | .00048 | .00301 | .00091 | .00098 | .00010 | .00076 | .00044 | .00109 | .00360 | .00041 |
| %RSD | 5.9804 | 4.9543 | 18.559 | .20419 | .98589 | .89214 | 4.0958 | 4.4355 | 7.2579 | 40.932 | 4.8061 |
| #1 | -.00650 | .00938 | .01837 | .44563 | .09850 | .01090 | .01903 | .01031 | .01425 | .01134 | .00886 |
| #2 | -.00707 | .01006 | .01411 | .44435 | .09989 | .01104 | .01796 | .00968 | .01579 | .00625 | .00828 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | .01500 | | | .06000 | |
| Range | | | | | | | 20.000% | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02532** | F **.02018** |
| Stddev | .00009 | .00002 |
| %RSD | .37083 | .09462 |
| #1 | .02539 | .02020 |
| #2 | .02525 | .02017 |
| Check ? | Chk Warn | Chk Fail |
| Value | .02000 | .01500 |
| Range | 20.000% | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6329.8** | **80872.** | **4734.9** |
| Stddev | 9.0 | 263. | 9.0 |
| %RSD | .14167 | .32563 | .19022 |
| #1 | 6336.2 | 80686. | 4728.5 |
| #2 | 6323.5 | 81058. | 4741.2 |

Sample Name: 280-41739-A-26-A  Acquired: 5/17/2013 7:17:17  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00181** | **.03056** | **.00319** | **.54897** | **.03668** | **-.00008** | **-.00282** | **127.68** | **.00039** |
| Stddev | .00027 | .00018 | .00043 | .00188 | .00006 | .00017 | .00079 | .41 | .00012 |
| %RSD | 14.940 | .60118 | 13.357 | .34219 | .15094 | 228.14 | 28.137 | .32106 | 30.319 |
| #1 | .00200 | .03069 | .00349 | .55030 | .03664 | -.00020 | -.00226 | 127.39 | .00047 |
| #2 | .00162 | .03043 | .00289 | .54764 | .03672 | .00005 | -.00338 | 127.97 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00158** | **-.00032** | **.07386** | **3.3148** | **.19134** | **109.60** | **.17387** | **-.00037** |
| Stddev | .00003 | .00012 | .00026 | .00170 | .0200 | .00415 | .15 | .00043 | .00007 |
| %RSD | 6.0196 | 7.7837 | 80.745 | 2.3057 | .60483 | 2.1666 | .14100 | .24693 | 19.313 |
| #1 | .00058 | .00149 | -.00014 | .07266 | 3.3006 | .19428 | 109.49 | .17357 | -.00042 |
| #2 | .00054 | .00166 | -.00050 | .07507 | 3.3290 | .18841 | 109.71 | .17417 | -.00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **30.358** | **.00255** | **.21916** | **.00147** | **57.440** | **-.00038** | **.00248** | **10.347** | **.00013** |
| Stddev | .246 | .00017 | .00098 | .00142 | .037 | .00001 | .00022 | .032 | .00034 |
| %RSD | .81161 | 6.6498 | .44505 | 96.588 | .06419 | 1.9239 | 8.8487 | .30775 | 269.36 |
| #1 | 30.533 | .00243 | .21985 | .00248 | 57.466 | -.00038 | .00233 | 10.325 | .00037 |
| #2 | 30.184 | .00267 | .21847 | .00047 | 57.414 | -.00039 | .00264 | 10.370 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52351** | **.00274** | **.00042** | **-.00007** | W **-.05096** | **-.00064** | **.00692** | **.00258** |
| Stddev | .00251 | .00084 | .00014 | .00031 | .00856 | .00002 | .00006 | .00208 |
| %RSD | .48005 | 30.696 | 32.561 | 443.54 | 16.802 | 3.1388 | .85611 | 80.836 |
| #1 | .52174 | .00214 | .00052 | .00015 | -.04491 | -.00063 | .00696 | .00405 |
| #2 | .52529 | .00333 | .00033 | -.00029 | -.05702 | -.00066 | .00688 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5942.9** | **77676.** | **4616.1** |
| Stddev | 9.5 | 2. | 29.7 |
| %RSD | .15983 | .00212 | .64443 |
| #1 | 5949.6 | 77678. | 4637.2 |
| #2 | 5936.2 | 77675. | 4595.1 |

Sample Name: 280-41739-A-35-A  Acquired: 5/17/2013 7:19:41  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00217** | **.00990** | **.00297** | **1.9456** | **.01329** | **-.00014** | **-.00400** | **87.716** | **.00040** |
| Stddev | .00009 | .00004 | .00298 | .0051 | .00017 | .00002 | .00029 | .811 | .00005 |
| %RSD | 4.3044 | .44138 | 100.29 | .26302 | 1.2985 | 14.893 | 7.3438 | .92436 | 12.307 |
| #1 | .00210 | .00994 | .00086 | 1.9419 | .01342 | -.00013 | -.00380 | 88.289 | .00036 |
| #2 | .00224 | .00987 | .00507 | 1.9492 | .01317 | -.00016 | -.00421 | 87.143 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00084** | **-.00029** | **.02467** | **1.4317** | **.00808** | **51.313** | **.01389** | **-.00036** |
| Stddev | .00010 | .00012 | .00035 | .00267 | .0424 | .00100 | .101 | .00005 | .00025 |
| %RSD | 25.003 | 14.187 | 123.06 | 10.829 | 2.9614 | 12.345 | .19586 | .36242 | 70.315 |
| #1 | .00033 | .00092 | -.00004 | .02656 | 1.4617 | .00879 | 51.384 | .01393 | -.00018 |
| #2 | .00047 | .00076 | -.00054 | .02278 | 1.4017 | .00738 | 51.241 | .01386 | -.00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **43.596** | **.00553** | **.21073** | **.00163** | **113.88** | **-.00087** | **.00516** | **10.871** | **.00035** |
| Stddev | .407 | .00030 | .00066 | .00177 | .40 | .00078 | .00147 | .131 | .00024 |
| %RSD | .93456 | 5.3883 | .31518 | 108.97 | .35535 | 89.073 | 28.539 | 1.2055 | 67.827 |
| #1 | 43.884 | .00574 | .21026 | .00288 | 113.59 | -.00142 | .00412 | 10.964 | .00018 |
| #2 | 43.308 | .00532 | .21120 | .00037 | 114.17 | -.00032 | .00620 | 10.779 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26762** | **.00037** | **.00018** | **.00094** | W **-.05188** | **-.00106** | **.02143** | **.00456** |
| Stddev | .00216 | .00069 | .00015 | .00073 | .01049 | .00079 | .00030 | .00139 |
| %RSD | .80602 | 187.90 | 81.844 | 77.576 | 20.220 | 74.515 | 1.3923 | 30.542 |
| #1 | .26915 | .00085 | .00008 | .00146 | -.04446 | -.00162 | .02164 | .00555 |
| #2 | .26610 | -.00012 | .00028 | .00043 | -.05930 | -.00050 | .02121 | .00358 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6053.4** | **77239.** | **4530.3** |
| Stddev | 45.4 | 206. | 36.5 |
| %RSD | .75013 | .26719 | .80510 |
| #1 | 6021.3 | 77093. | 4504.5 |
| #2 | 6085.5 | 77385. | 4556.1 |

Sample Name: 280-41739-A-42-A Acquired: 5/17/2013 7:22:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00218** | **.00486** | **.01385** | **.31527** | **.17488** | **-.00001** | **-.00283** | **51.642** | **.00054** |
| Stddev | .00011 | .00020 | .00024 | .00097 | .00039 | .00005 | .00039 | .156 | .00005 |
| %RSD | 5.1441 | 4.1255 | 1.7562 | .30634 | .22026 | 369.73 | 13.969 | .30218 | 8.3350 |
| #1 | .00210 | .00500 | .01403 | .31595 | .17516 | -.00005 | -.00311 | 51.752 | .00051 |
| #2 | .00226 | .00471 | .01368 | .31458 | .17461 | .00002 | -.00255 | 51.531 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00351** | **.00065** | **.00037** | **5.0325** | **3.2932** | **.02639** | **18.937** | **.91756** | **.00048** |
| Stddev | .00003 | .00016 | .00001 | .0235 | .0284 | .00038 | .028 | .00080 | .00008 |
| %RSD | .79515 | 24.907 | 2.2193 | .46749 | .86338 | 1.4442 | .14645 | .08718 | 16.256 |
| #1 | .00353 | .00054 | .00038 | 5.0492 | 3.2731 | .02612 | 18.917 | .91699 | .00043 |
| #2 | .00349 | .00077 | .00037 | 5.0159 | 3.3133 | .02666 | 18.957 | .91812 | .00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **10.456** | **12.713** | **.00209** | **.20119** | **.00017** | **5.6174** | **-.00247** | **.00149** | **3.2764** |
| Stddev | .075 | .726 | .00007 | .00072 | .00101 | .0219 | .00066 | .00006 | .0111 |
| %RSD | .72041 | 5.7084 | 3.1438 | .35857 | 584.31 | .39062 | 26.819 | 4.0985 | .33793 |
| #1 | 10.509 | 12.200 | .00205 | .20170 | -.00054 | 5.6329 | -.00201 | .00154 | 3.2686 |
| #2 | 10.403 | 13.226 | .00214 | .20068 | .00089 | 5.6018 | -.00294 | .00145 | 3.2842 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.35413** | **.00196** | **.00039** | **-.00017** | **-.04209** | **-.00077** | **.00657** | **.00347** |
| Stddev | .00009 | .00043 | .00237 | .00015 | .00034 | .02494 | .00023 | .00008 | .00119 |
| %RSD | 8.7018 | .12219 | 121.08 | 39.775 | 197.90 | 59.251 | 29.989 | 1.1882 | 34.286 |
| #1 | .00109 | .35444 | .00363 | .00028 | -.00041 | -.05972 | -.00061 | .00663 | .00263 |
| #2 | .00096 | .35383 | .00028 | .00050 | .00007 | -.02445 | -.00094 | .00652 | .00432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6014.1** | **76948.** | **4505.5** |
| Stddev | .9 | 35. | 22.5 |
| %RSD | .01506 | .04548 | .49947 |
| #1 | 6013.5 | 76972. | 4489.5 |
| #2 | 6014.8 | 76923. | 4521.4 |

Sample Name: 280-41739-A-50-A Acquired: 5/17/2013 7:24:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00160** | **.11051** | **.00748** | **1.7728** | **1.3434** | **-.00005** | **-.00266** | **70.747** | **-.00008** |
| Stddev | .00079 | .00096 | .00288 | .0020 | .0033 | .00002 | .00131 | .120 | .00024 |
| %RSD | 49.266 | .86465 | 38.501 | .11522 | .24479 | 38.926 | 49.019 | .17023 | 283.19 |
| #1 | .00104 | .11119 | .00951 | 1.7743 | 1.3457 | -.00003 | -.00359 | 70.832 | -.00025 |
| #2 | .00216 | .10984 | .00544 | 1.7714 | 1.3411 | -.00006 | -.00174 | 70.662 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00124** | **.00018** | **5.2324** | **18.145** | **.26002** | **26.276** | **.05338** | **.00038** |
| Stddev | .00010 | .00006 | .00015 | .0161 | .003 | .00050 | .067 | .00014 | .00008 |
| %RSD | 11.998 | 4.9131 | 83.574 | .30768 | .01511 | .19155 | .25613 | .25850 | 21.454 |
| #1 | .00075 | .00120 | .00029 | 5.2210 | 18.143 | .26037 | 26.324 | .05347 | .00043 |
| #2 | .00089 | .00128 | .00008 | 5.2438 | 18.147 | .25967 | 26.229 | .05328 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **491.62** | **.00054** | **.20186** | **.00043** | **.15648** | **-.00057** | **.00160** | **4.9823** | **.00031** |
| Stddev | .59 | .00039 | .00014 | .00137 | .00291 | .00057 | .00103 | .0057 | .00002 |
| %RSD | .12072 | 71.893 | .07100 | 314.78 | 1.8605 | 99.851 | 64.541 | .11498 | 5.7718 |
| #1 | 492.04 | .00026 | .20175 | -.00053 | .15854 | -.00017 | .00233 | 4.9863 | .00033 |
| #2 | 491.20 | .00081 | .20196 | .00140 | .15442 | -.00098 | .00087 | 4.9782 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4251** | **.00198** | **.00012** | **-.00009** | **-.03944** | **-.00087** | **.00449** | **.00390** |
| Stddev | .0034 | .00170 | .00007 | .00126 | .05543 | .00043 | .00041 | .00055 |
| %RSD | .13906 | 85.861 | 58.048 | 1463.8 | 140.57 | 49.363 | 9.0696 | 14.075 |
| #1 | 2.4275 | .00318 | .00017 | -.00098 | -.07863 | -.00117 | .00420 | .00352 |
| #2 | 2.4227 | .00078 | .00007 | .00081 | -.00024 | -.00057 | .00478 | .00429 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5812.1** | **74005.** | **4415.9** |
| Stddev | 7.6 | 243. | 41.8 |
| %RSD | .13076 | .32868 | .94738 |
| #1 | 5817.5 | 73833. | 4386.3 |
| #2 | 5806.8 | 74177. | 4445.4 |

Sample Name: 280-41739-A-56-A  Acquired: 5/17/2013 7:27:02  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00173** | **.05052** | **.00139** | **.07106** | **.04324** | **.00004** | **-.00310** | **80.096** | **.00039** |
| Stddev | .00048 | .00002 | .00023 | .00071 | .00052 | .00000 | .00340 | .111 | .00012 |
| %RSD | 28.074 | .04245 | 16.914 | .99903 | 1.1992 | 5.6561 | 109.97 | .13821 | 30.055 |
| #1 | .00207 | .05054 | .00122 | .07156 | .04361 | .00004 | -.00550 | 80.175 | .00047 |
| #2 | .00138 | .05051 | .00155 | .07055 | .04287 | .00004 | -.00069 | 80.018 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00108** | **.00368** | **.13405** | **1.8935** | **.02723** | **39.947** | **.01293** | **.00047** |
| Stddev | .00033 | .00013 | .00007 | .00295 | .0795 | .00135 | .121 | .00009 | .00027 |
| %RSD | 121.36 | 11.700 | 1.8694 | 2.1973 | 4.1992 | 4.9482 | .30221 | .71351 | 57.788 |
| #1 | .00051 | .00099 | .00373 | .13197 | 1.9497 | .02627 | 40.033 | .01299 | .00066 |
| #2 | .00004 | .00117 | .00363 | .13613 | 1.8372 | .02818 | 39.862 | .01286 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.943** | **.00251** | **.20348** | **.00104** | **55.543** | **.00024** | **.00013** | **9.9932** | **.00046** |
| Stddev | .209 | .00026 | .00259 | .00163 | .001 | .00184 | .00081 | .0092 | .00074 |
| %RSD | .36711 | 10.489 | 1.2748 | 156.40 | .00191 | 758.18 | 647.77 | .09221 | 163.02 |
| #1 | 57.091 | .00232 | .20531 | -.00011 | 55.543 | .00154 | -.00045 | 9.9997 | -.00007 |
| #2 | 56.795 | .00269 | .20164 | .00220 | 55.542 | -.00106 | .00070 | 9.9867 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35693** | **.00349** | **.00060** | **.00096** | F **-.10254** | **-.00025** | **.02162** | **.00175** |
| Stddev | .00024 | .00143 | .00030 | .00039 | .00761 | .00039 | .00050 | .00222 |
| %RSD | .06653 | 40.859 | 49.608 | 41.042 | 7.4256 | 155.61 | 2.2981 | 127.00 |
| #1 | .35709 | .00450 | .00081 | .00124 | -.09716 | .00003 | .02197 | .00331 |
| #2 | .35676 | .00248 | .00039 | .00068 | -.10793 | -.00053 | .02127 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5881.3** | **75775.** | **4455.8** |
| Stddev | 17.9 | 211. | 2.1 |
| %RSD | .30475 | .27895 | .04662 |
| #1 | 5868.6 | 75626. | 4454.3 |
| #2 | 5893.9 | 75925. | 4457.2 |

Sample Name: 280-41723-A-16-A  Acquired: 5/17/2013 7:29:28  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00182** | **.00353** | **.00320** | **.01762** | **.02882** | **-.00000** | **-.00214** | **28.279** | **.00001** |
| Stddev | .00048 | .00013 | .00002 | .00069 | .00024 | .00005 | .00321 | .086 | .00004 |
| %RSD | 26.479 | 3.6038 | .67114 | 3.9225 | .82418 | 2519.6 | 150.25 | .30550 | 286.41 |
| #1 | .00216 | .00362 | .00318 | .01811 | .02866 | .00003 | .00013 | 28.340 | .00004 |
| #2 | .00148 | .00344 | .00321 | .01713 | .02899 | -.00003 | -.00441 | 28.218 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00146** | **-.00026** | **.01237** | **1.6373** | **.03021** | **13.629** | **.06814** | **-.00031** |
| Stddev | .00018 | .00010 | .00029 | .00253 | .0193 | .00047 | .023 | .00012 | .00013 |
| %RSD | 47.908 | 7.1837 | 112.47 | 20.424 | 1.1793 | 1.5643 | .17019 | .16939 | 40.630 |
| #1 | .00025 | .00138 | -.00005 | .01058 | 1.6510 | .02987 | 13.612 | .06805 | -.00040 |
| #2 | .00050 | .00153 | -.00047 | .01416 | 1.6237 | .03054 | 13.645 | .06822 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.209** | **.00111** | **.18302** | **.00066** | **14.370** | **-.00215** | **.00067** | **13.508** | **.00011** |
| Stddev | .651 | .00029 | .00139 | .00089 | .020 | .00076 | .00075 | .001 | .00019 |
| %RSD | 2.5811 | 26.500 | .76010 | 136.00 | .13672 | 35.095 | 111.46 | .00816 | 169.87 |
| #1 | 24.749 | .00090 | .18401 | .00129 | 14.356 | -.00269 | .00120 | 13.509 | -.00002 |
| #2 | 25.669 | .00132 | .18204 | .00003 | 14.383 | -.00162 | .00014 | 13.508 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13713** | **.00144** | **-.00029** | **-.00150** | **-.04716** | **-.00113** | **.00395** | **.00189** |
| Stddev | .00000 | .00124 | .00026 | .00013 | .00743 | .00030 | .00004 | .00029 |
| %RSD | .00306 | 86.371 | 90.347 | 8.6382 | 15.745 | 26.978 | 1.1290 | 15.454 |
| #1 | .13713 | .00056 | -.00048 | -.00141 | -.04191 | -.00091 | .00391 | .00210 |
| #2 | .13713 | .00232 | -.00011 | -.00160 | -.05242 | -.00135 | .00398 | .00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6072.1** | **77215.** | **4461.1** |
| Stddev | 1.5 | 195. | 17.7 |
| %RSD | .02536 | .25203 | .39598 |
| #1 | 6071.1 | 77353. | 4448.6 |
| #2 | 6073.2 | 77077. | 4473.6 |

Sample Name: 280-41723-A-24-A  Acquired: 5/17/2013 7:31:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00193** | **.04128** | **.00373** | **.01658** | **.01854** | **.00001** | **-.00507** | **24.092** | **.00006** |
| Stddev | .00068 | .00042 | .00145 | .00051 | .00046 | .00005 | .00024 | .040 | .00001 |
| %RSD | 35.492 | 1.0267 | 38.921 | 3.1034 | 2.4971 | 410.98 | 4.7044 | .16454 | 18.323 |
| #1 | .00144 | .04158 | .00271 | .01622 | .01821 | -.00002 | -.00524 | 24.064 | .00007 |
| #2 | .00241 | .04098 | .00476 | .01694 | .01886 | .00005 | -.00490 | 24.120 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00677** | **-.00068** | **.14738** | **1.2954** | **.02303** | **11.854** | **.00330** | **.00006** |
| Stddev | .00006 | .00026 | .00030 | .00063 | .0104 | .00186 | .035 | .00007 | .00006 |
| %RSD | 30.351 | 3.9022 | 43.809 | .42921 | .80198 | 8.0720 | .29808 | 2.0952 | 96.446 |
| #1 | .00023 | .00695 | -.00047 | .14693 | 1.3027 | .02172 | 11.829 | .00325 | .00011 |
| #2 | .00015 | .00658 | -.00089 | .14783 | 1.2880 | .02435 | 11.879 | .00335 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.112** | **.00205** | **.18776** | **.00136** | **17.745** | **-.00133** | **.00135** | **13.399** | **.00028** |
| Stddev | .098 | .00003 | .00187 | .00101 | .037 | .00031 | .00016 | .001 | .00012 |
| %RSD | .42258 | 1.3857 | .99670 | 74.153 | .20940 | 23.665 | 11.717 | .00791 | 42.812 |
| #1 | 23.181 | .00207 | .18909 | .00207 | 17.772 | -.00155 | .00146 | 13.400 | .00019 |
| #2 | 23.042 | .00203 | .18644 | .00064 | 17.719 | -.00111 | .00123 | 13.398 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10613** | **.00292** | **.00042** | **-.00017** | W **-.05836** | **-.00162** | **.00426** | **.00475** |
| Stddev | .00031 | .00119 | .00011 | .00016 | .01842 | .00092 | .00012 | .00198 |
| %RSD | .29267 | 40.636 | 25.513 | 98.934 | 31.553 | 56.824 | 2.8662 | 41.755 |
| #1 | .10635 | .00208 | .00034 | -.00028 | -.04534 | -.00228 | .00435 | .00615 |
| #2 | .10591 | .00376 | .00049 | -.00005 | -.07139 | -.00097 | .00418 | .00335 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6077.5** | **77698.** | **4462.6** |
| Stddev | 9.0 | 170. | .6 |
| %RSD | .14760 | .21849 | .01453 |
| #1 | 6071.2 | 77578. | 4462.1 |
| #2 | 6083.9 | 77818. | 4463.0 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 7:34:20 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00108** | **47.923** | **.00395** | **.00252** | **-.00074** | **-.00007** | **1.0273** | **-.00153** | **-.00087** | **.00228** | **.00010** | **-.00250** |
| Stddev | .00033 | .046 | .00065 | .00000 | .00019 | .00000 | .0007 | .00102 | .00020 | .00004 | .00016 | .00022 |
| %RSD | 30.808 | .09602 | 16.401 | .13541 | 25.079 | 1.0002 | .06691 | 66.496 | 22.833 | 1.9210 | 162.41 | 8.6362 |
| #1 | .00084 | 47.890 | .00441 | .00253 | -.00061 | -.00007 | 1.0278 | -.00081 | -.00073 | .00231 | -.00001 | -.00235 |
| #2 | .00132 | 47.955 | .00349 | .00252 | -.00087 | -.00007 | 1.0268 | -.00225 | -.00101 | .00225 | .00021 | -.00265 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.487** | **.00965** | **-.00451** | **.01088** | **-.00010** | **-.00244** | F **277.32** | **.00158** | **.01081** | **.00028** | **5.2175** | **-.00204** |
| Stddev | .306 | .02002 | .00070 | .00026 | .00004 | .00013 | .23 | .00007 | .00222 | .00114 | .0036 | .00050 |
| %RSD | .67338 | 207.60 | 15.433 | 2.3575 | 37.008 | 5.3422 | .08226 | 4.7220 | 20.572 | 400.74 | .06923 | 24.679 |
| #1 | 45.704 | -.00451 | -.00500 | .01070 | -.00012 | -.00235 | 277.16 | .00153 | .00923 | .00109 | 5.2150 | -.00169 |
| #2 | 45.270 | .02381 | -.00402 | .01106 | -.00007 | -.00254 | 277.48 | .00164 | .01238 | -.00052 | 5.2201 | -.00240 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00967** | **.00549** | **.00124** | **.00040** | **5.2658** | **.00364** | **-.00110** | **10.319** | **-.00214** | **.00298** | **-.05645** |
| Stddev | .00169 | .00365 | .00043 | .00005 | .0095 | .00044 | .00031 | .004 | .00058 | .00011 | .00186 |
| %RSD | 17.467 | 66.475 | 34.995 | 12.076 | .17938 | 12.059 | 28.655 | .04089 | 26.994 | 3.7332 | 3.2951 |
| #1 | .00848 | .00291 | .00154 | .00043 | 5.2591 | .00395 | -.00087 | 10.316 | -.00173 | .00290 | -.05776 |
| #2 | .01087 | .00807 | .00093 | .00037 | 5.2725 | .00333 | -.00132 | 10.322 | -.00255 | .00306 | -.05513 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5955.4** | **75289.** | **4394.8** |
| Stddev | 5.6 | 51. | 18.7 |
| %RSD | .09335 | .06754 | .42472 |
| #1 | 5959.4 | 75253. | 4381.6 |
| #2 | 5951.5 | 75325. | 4407.9 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 7:36:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52024** | **.50619** | **1.0122** | **.53126** | **.52951** | **.46875** | **.00244** | **4.8025** | **.51396** | **.52403** | **.50659** | **.50281** |
| Stddev | .00244 | .00054 | .0031 | .00197 | .00066 | .00111 | .00186 | .0038 | .00083 | .00072 | .00105 | .00190 |
| %RSD | .46908 | .10712 | .30849 | .37033 | .12520 | .23671 | 76.126 | .07896 | .16133 | .13826 | .20724 | .37865 |
| #1 | .52196 | .50657 | 1.0144 | .53265 | .52998 | .46953 | .00113 | 4.7998 | .51455 | .52454 | .50733 | .50416 |
| #2 | .51851 | .50580 | 1.0100 | .52986 | .52904 | .46797 | .00376 | 4.8052 | .51337 | .52351 | .50585 | .50147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1866** | **54.537** | **1.0894** | **19.808** | **.51264** | **.49876** | **5.2087** | **.51202** | **1.0355** | **1.0372** | **.02931** | **1.0424** |
| Stddev | .0038 | .058 | .0011 | .055 | .00114 | .00342 | .0332 | .00163 | .0076 | .0049 | .00141 | .0067 |
| %RSD | .17250 | .10674 | .10392 | .27652 | .22199 | .68508 | .63726 | .31795 | .73471 | .46715 | 4.8122 | .63893 |
| #1 | 2.1839 | 54.496 | 1.0886 | 19.847 | .51345 | .50118 | 5.2322 | .51317 | 1.0409 | 1.0406 | .03031 | 1.0471 |
| #2 | 2.1892 | 54.578 | 1.0902 | 19.769 | .51184 | .49635 | 5.1852 | .51087 | 1.0301 | 1.0338 | .02832 | 1.0377 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0569** | F **4.4208** | **.99591** | **.53344** | **.00311** | **.51134** | **1.0054** | **-.03372** | **.49927** | F **.68390** | **.49029** |
| Stddev | .0037 | .0018 | .00078 | .00020 | .00027 | .00123 | .0022 | .00882 | .00135 | .00459 | .00091 |
| %RSD | .34856 | .04035 | .07814 | .03737 | 8.7023 | .24001 | .22383 | 26.164 | .27031 | .67053 | .18591 |
| #1 | 1.0595 | 4.4220 | .99646 | .53330 | .00331 | .51221 | 1.0070 | -.02748 | .50023 | .68715 | .48964 |
| #2 | 1.0543 | 4.4195 | .99536 | .53359 | .00292 | .51047 | 1.0038 | -.03995 | .49832 | .68066 | .49093 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| Value | | 5.0000 | | | | | | | | .50000 | |
| Range | | -10.000% | | | | | | | | 10.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5995.9** | **76425.** | **4418.4** |
| Stddev | .1 | 353. | .7 |
| %RSD | .00197 | .46172 | .01580 |
| #1 | 5995.8 | 76176. | 4418.9 |
| #2 | 5996.0 | 76675. | 4418.0 |

Sample Name: CCB Acquired: 5/17/2013 7:38:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00211** | **-.00017** | W **.00486** | **.00095** | W **-.00088** | **-.00003** | **.00202** | **-.00177** | **-.00013** | **.00043** | **.00045** |
| Stddev | .00093 | .00022 | .00133 | .00018 | .00050 | .00001 | .00139 | .00117 | .00017 | .00013 | .00005 |
| %RSD | 44.188 | 130.32 | 27.319 | 18.611 | 57.454 | 30.085 | 68.664 | 66.148 | 125.76 | 29.819 | 11.451 |
| #1 | .00277 | -.00001 | .00580 | .00083 | -.00052 | -.00002 | .00104 | -.00259 | -.00025 | .00034 | .00042 |
| #2 | .00145 | -.00032 | .00392 | .00108 | -.00123 | -.00003 | .00300 | -.00094 | -.00001 | .00052 | .00049 |
| Check ? | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | .00440 | | .00058 | | | | | | |
| Low Limit | -.00180 | | -.00440 | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00126** | W **.02353** | **.06628** | **-.00239** | **.00186** | **.00012** | **-.00035** | **-.05061** | **.00028** | **.00179** | **.00052** |
| Stddev | .00029 | .00087 | .00172 | .00001 | .00040 | .00005 | .00006 | .00283 | .00014 | .00248 | .00100 |
| %RSD | 23.123 | 3.6860 | 2.5887 | .59244 | 21.573 | 42.148 | 16.200 | 5.6007 | 49.583 | 138.97 | 194.32 |
| #1 | -.00146 | .02414 | .06750 | -.00240 | .00158 | .00016 | -.00040 | -.04860 | .00018 | .00003 | -.00019 |
| #2 | -.00105 | .02292 | .06507 | -.00238 | .00215 | .00009 | -.00031 | -.05261 | .00038 | .00354 | .00123 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .02200 | | | | | | | | | |
| Low Limit | | -.02200 | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02386** | **.00033** | **-.00152** | **-.00539** | **-.00009** | **.00006** | **.00224** | **.00005** | **-.00066** | **-.00393** | W **-.00157** |
| Stddev | .00066 | .00043 | .00315 | .00430 | .00004 | .00004 | .00058 | .00006 | .00063 | .01070 | .00043 |
| %RSD | 2.7785 | 130.75 | 206.75 | 79.772 | 50.671 | 68.659 | 25.710 | 142.89 | 95.737 | 272.50 | 27.377 |
| #1 | -.02339 | .00063 | .00070 | -.00844 | -.00006 | .00008 | .00265 | .00009 | -.00021 | -.01149 | -.00187 |
| #2 | -.02433 | .00002 | -.00375 | -.00235 | -.00012 | .00003 | .00183 | -.00000 | -.00110 | .00364 | -.00127 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00236** | **.00199** |
| Stddev | .00018 | .00003 |
| %RSD | 7.7268 | 1.4367 |
| #1 | .00249 | .00197 |
| #2 | .00223 | .00201 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6025.3** | **77026.** | **4371.9** |
| Stddev | 5.8 | 331. | 25.4 |
| %RSD | .09698 | .42959 | .58124 |
| #1 | 6021.2 | 76792. | 4389.9 |
| #2 | 6029.5 | 77260. | 4354.0 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 7:41:26 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01257** | **.10692** | **.01739** | **.10774** | **.00991** | **.00099** | **.10749** | **.19229** | **.00535** | **.01087** | **.01059** |
| Stddev | .00042 | .00064 | .00210 | .00003 | .00026 | .00002 | .00114 | .00455 | .00010 | .00011 | .00002 |
| %RSD | 3.3606 | .59570 | 12.063 | .02432 | 2.6663 | 1.5901 | 1.0616 | 2.3686 | 1.8799 | 1.0297 | .20737 |
| #1 | .01227 | .10647 | .01887 | .10772 | .00973 | .00100 | .10830 | .19551 | .00528 | .01095 | .01057 |
| #2 | .01286 | .10737 | .01590 | .10776 | .01010 | .00098 | .10668 | .18907 | .00542 | .01079 | .01060 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | | | | | | | | | |
| Range | 20.000% | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01407** | **.08978** | **3.4386** | F **.00461** | **.20914** | **.01052** | **.01953** | **1.0426** | **.04193** | **3.0695** | **.00945** |
| Stddev | .00022 | .00146 | .0405 | .00020 | .00068 | .00010 | .00016 | .0115 | .00020 | .0037 | .00237 |
| %RSD | 1.5416 | 1.6220 | 1.1771 | 4.2891 | .32644 | .93799 | .84003 | 1.1056 | .47153 | .12224 | 25.028 |
| #1 | .01422 | .09081 | 3.4672 | .00475 | .20866 | .01045 | .01941 | 1.0508 | .04179 | 3.0668 | .00778 |
| #2 | .01391 | .08875 | 3.4100 | .00447 | .20963 | .01059 | .01964 | 1.0345 | .04207 | 3.0721 | .01112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02423** | **.00802** | **.01440** | **.44546** | **.10161** | **.01101** | **.01779** | **.01054** | **.01590** | F **.03821** | **.00831** |
| Stddev | .00329 | .00058 | .00459 | .01102 | .00046 | .00018 | .00016 | .00044 | .00034 | .00148 | .00020 |
| %RSD | 13.566 | 7.2891 | 31.863 | 2.4749 | .44999 | 1.6392 | .89853 | 4.1785 | 2.1227 | 3.8664 | 2.4517 |
| #1 | -.02655 | .00760 | .01764 | .43767 | .10128 | .01113 | .01791 | .01085 | .01566 | .03926 | .00817 |
| #2 | -.02191 | .00843 | .01115 | .45326 | .10193 | .01088 | .01768 | .01023 | .01614 | .03717 | .00846 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02650** | F **.02014** |
| Stddev | .00037 | .00250 |
| %RSD | 1.3947 | 12.407 |
| #1 | .02624 | .02190 |
| #2 | .02676 | .01837 |
| Check ? | Chk Fail | Chk Fail |
| Value | .02000 | .01500 |
| Range | 30.000% | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5998.9** | **76292.** | **4380.2** |
| Stddev | .3 | 3. | 24.2 |
| %RSD | .00580 | .00412 | .55139 |
| #1 | 5998.7 | 76295. | 4363.2 |
| #2 | 5999.2 | 76290. | 4397.3 |

Sample Name: MB 280-174062/1-A Acquired: 5/17/2013 7:43:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **.00356** | **.00336** | **.00134** | **-.00041** | **-.00006** | **-.00215** | **.00483** | **.00002** |
| Stddev | .00085 | .00035 | .00045 | .00027 | .00022 | .00008 | .00338 | .00044 | .00021 |
| %RSD | 42.488 | 9.7398 | 13.452 | 20.164 | 53.114 | 132.04 | 156.97 | 9.0775 | 984.95 |
| #1 | .00139 | .00381 | .00368 | .00115 | -.00056 | -.00011 | -.00454 | .00514 | .00017 |
| #2 | .00259 | .00332 | .00304 | .00153 | -.00025 | -.00000 | .00024 | .00452 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00025** | **-.00101** | **.02032** | **-.01261** | W **-.00522** | **.00458** | **.00017** | **-.00013** |
| Stddev | .00004 | .00001 | .00027 | .00175 | .06505 | .00187 | .00053 | .00002 | .00007 |
| %RSD | 19.978 | 3.2012 | 26.468 | 8.5878 | 515.75 | 35.758 | 11.569 | 11.715 | 51.273 |
| #1 | .00016 | .00025 | -.00119 | .01909 | -.05861 | -.00654 | .00420 | .00019 | -.00018 |
| #2 | .00021 | .00026 | -.00082 | .02155 | .03339 | -.00390 | .00495 | .00016 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00500 | | | |
| Low Limit | | | | | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02884** | **-.00021** | F **.23211** | **.00020** | **-.02167** | **-.00130** | **.00065** | **.01559** | **.00075** |
| Stddev | .01401 | .00003 | .00120 | .00071 | .00697 | .00175 | .00077 | .00128 | .00068 |
| %RSD | 48.589 | 14.916 | .51754 | 364.06 | 32.150 | 135.04 | 117.90 | 8.2328 | 91.590 |
| #1 | -.01893 | -.00019 | .23296 | .00070 | -.01674 | -.00006 | .00119 | .01468 | .00026 |
| #2 | -.03875 | -.00023 | .23126 | -.00031 | -.02660 | -.00253 | .00011 | .01649 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00285** | **-.00024** | **-.00096** | W **-.05096** | **-.00139** | **.00264** | **.00363** |
| Stddev | .00017 | .00209 | .00020 | .00109 | .02210 | .00048 | .00020 | .00233 |
| %RSD | 118.52 | 73.448 | 83.477 | 113.70 | 43.377 | 34.224 | 7.4691 | 64.205 |
| #1 | .00027 | .00433 | -.00038 | -.00173 | -.06659 | -.00105 | .00278 | .00198 |
| #2 | .00002 | .00137 | -.00010 | -.00019 | -.03533 | -.00172 | .00250 | .00528 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .05000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5970.2** | **76424.** | **4347.8** |
| Stddev | 2.8 | 240. | 10.5 |
| %RSD | .04692 | .31365 | .24233 |
| #1 | 5968.2 | 76255. | 4340.3 |
| #2 | 5972.2 | 76594. | 4355.2 |

Sample Name: LCS 280-174062/2-A Acquired: 5/17/2013 7:46:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05402** | **1.9235** | **1.0063** | **1.0507** | **2.1233** | **.04716** | **2.0648** | **46.948** | **.10345** |
| Stddev | .00003 | .0033 | .0014 | .0001 | .0040 | .00003 | .0006 | .083 | .00003 |
| %RSD | .05314 | .17181 | .14370 | .00703 | .18880 | .07272 | .02724 | .17600 | .03356 |
| #1 | .05404 | 1.9212 | 1.0052 | 1.0508 | 2.1262 | .04719 | 2.0652 | 47.007 | .10343 |
| #2 | .05400 | 1.9259 | 1.0073 | 1.0507 | 2.1205 | .04714 | 2.0644 | 46.890 | .10348 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50777** | **.19954** | **.24913** | **.89856** | **54.787** | **1.0820** | **48.807** | **.50139** | **.97662** |
| Stddev | .00032 | .00012 | .00005 | .00807 | .106 | .0001 | .041 | .00005 | .00142 |
| %RSD | .06242 | .06020 | .02049 | .89798 | .19338 | .00443 | .08495 | .00978 | .14555 |
| #1 | .50755 | .19945 | .24917 | .90427 | 54.862 | 1.0820 | 48.836 | .50142 | .97763 |
| #2 | .50800 | .19962 | .24909 | .89285 | 54.712 | 1.0821 | 48.778 | .50135 | .97562 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **56.868** | **.49489** | **10.607** | **.50160** | **-.03131** | **.51413** | **2.1096** | F **8.9576** | **1.9368** |
| Stddev | .291 | .00045 | .019 | .00103 | .00202 | .00113 | .0081 | .0022 | .0065 |
| %RSD | .51184 | .09178 | .18136 | .20602 | 6.4626 | .21931 | .38290 | .02418 | .33355 |
| #1 | 56.662 | .49521 | 10.593 | .50233 | -.03274 | .51493 | 2.1154 | 8.9561 | 1.9414 |
| #2 | 57.073 | .49457 | 10.620 | .50087 | -.02988 | .51333 | 2.1039 | 8.9591 | 1.9323 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0587** | **1.0493** | **1.0046** | **1.9777** | **2.0782** | **.49875** | **.48101** | **.47133** |
| Stddev | .0010 | .0019 | .0002 | .0020 | .0379 | .00098 | .00012 | .00089 |
| %RSD | .09880 | .17702 | .02028 | .10266 | 1.8213 | .19586 | .02399 | .18907 |
| #1 | 1.0594 | 1.0506 | 1.0047 | 1.9762 | 2.0515 | .49944 | .48093 | .47070 |
| #2 | 1.0580 | 1.0480 | 1.0044 | 1.9791 | 2.1050 | .49806 | .48109 | .47196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5820.5** | **74402.** | **4304.7** |
| Stddev | 5.7 | 113. | 1.6 |
| %RSD | .09838 | .15218 | .03656 |
| #1 | 5816.5 | 74322. | 4303.6 |
| #2 | 5824.5 | 74482. | 4305.9 |

Sample Name: LCSD 280-174062/3-A Acquired: 5/17/2013 7:48:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05390** | **1.9251** | **1.0107** | **1.0537** | **2.1051** | **.04650** | **2.0669** | **46.940** | **.10340** |
| Stddev | .00033 | .0046 | .0038 | .0013 | .0057 | .00028 | .0007 | .124 | .00019 |
| %RSD | .61938 | .23929 | .37818 | .12564 | .27060 | .60279 | .03421 | .26475 | .18510 |
| #1 | .05414 | 1.9218 | 1.0134 | 1.0528 | 2.1011 | .04670 | 2.0674 | 46.852 | .10353 |
| #2 | .05367 | 1.9283 | 1.0080 | 1.0547 | 2.1091 | .04630 | 2.0664 | 47.028 | .10326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50800** | **.20044** | **.24559** | **.90568** | **54.948** | **1.0826** | **48.329** | **.49698** | **.98324** |
| Stddev | .00097 | .00048 | .00004 | .00253 | .081 | .0049 | .006 | .00017 | .00006 |
| %RSD | .19061 | .23961 | .01672 | .27984 | .14718 | .45491 | .01334 | .03326 | .00625 |
| #1 | .50732 | .20010 | .24562 | .90747 | 55.005 | 1.0791 | 48.333 | .49686 | .98329 |
| #2 | .50869 | .20078 | .24556 | .90389 | 54.891 | 1.0861 | 48.324 | .49709 | .98320 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **56.913** | **.49621** | **10.619** | **.50281** | **-.02549** | **.51253** | **2.0911** | **8.9605** | **1.9400** |
| Stddev | .668 | .00079 | .013 | .00024 | .00016 | .00361 | .0146 | .0123 | .0084 |
| %RSD | 1.1744 | .15860 | .12344 | .04860 | .64242 | .70439 | .69922 | .13714 | .43339 |
| #1 | 56.440 | .49565 | 10.609 | .50264 | -.02537 | .50998 | 2.0807 | 8.9518 | 1.9340 |
| #2 | 57.385 | .49677 | 10.628 | .50299 | -.02560 | .51508 | 2.1014 | 8.9692 | 1.9459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0596** | **1.0404** | **.99843** | **1.9737** | **2.0388** | **.49380** | **.47933** | **.46812** |
| Stddev | .0012 | .0013 | .00061 | .0102 | .0183 | .00009 | .00013 | .00301 |
| %RSD | .10987 | .12467 | .06119 | .51619 | .89872 | .01913 | .02811 | .64349 |
| #1 | 1.0588 | 1.0413 | .99800 | 1.9665 | 2.0259 | .49387 | .47943 | .46599 |
| #2 | 1.0604 | 1.0395 | .99887 | 1.9809 | 2.0518 | .49374 | .47924 | .47025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5831.6** | **75036.** | **4350.8** |
| Stddev | 10.2 | 161. | 8.3 |
| %RSD | .17483 | .21438 | .19092 |
| #1 | 5838.8 | 74922. | 4356.6 |
| #2 | 5824.4 | 75149. | 4344.9 |

Sample Name: 280-42165-A-1-A Acquired: 5/17/2013 7:50:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00470** | **2.1887** | **.02786** | **.62532** | **.05702** | **-.00030** | **.00522** | **48.883** | **1.8953** |
| Stddev | .00002 | .0072 | .00117 | .00062 | .00039 | .00001 | .00174 | .059 | .0022 |
| %RSD | .51945 | .32955 | 4.2003 | .09948 | .68727 | 1.9492 | 33.320 | .12093 | .11379 |
| #1 | .00468 | 2.1836 | .02703 | .62576 | .05730 | -.00031 | .00645 | 48.841 | 1.8938 |
| #2 | .00472 | 2.1938 | .02869 | .62488 | .05674 | -.00030 | .00399 | 48.924 | 1.8969 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01123** | **.02054** | **8.5185** | **8.0477** | W **269.27** | **.11272** | **32.047** | **.70303** | W **16.284** |
| Stddev | .00031 | .00007 | .0012 | .0006 | .17 | .00325 | .038 | .00108 | .033 |
| %RSD | 2.7840 | .33338 | .01452 | .00753 | .06396 | 2.8800 | .11990 | .15368 | .20246 |
| #1 | .01101 | .02050 | 8.5176 | 8.0482 | 269.15 | .11042 | 32.074 | .70379 | 16.261 |
| #2 | .01145 | .02059 | 8.5194 | 8.0473 | 269.39 | .11501 | 32.020 | .70226 | 16.308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | 100.00 | | | | 2.0000 |
| Low Limit | | | | | -.50000 | | | | -.01000 |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1997.6** | **.09177** | F **106.25** | **.00761** | **2610.2** | **.39807** | **.01622** | **3.9205** | **.23347** |
| Stddev | 3.6 | .00026 | .22 | .00001 | 3.9 | .00310 | .00439 | .0116 | .00063 |
| %RSD | .18134 | .28195 | .20449 | .09051 | .15087 | .77846 | 27.078 | .29502 | .27119 |
| #1 | 2000.2 | .09195 | 106.10 | .00760 | 2607.4 | .40026 | .01932 | 3.9287 | .23302 |
| #2 | 1995.1 | .09158 | 106.40 | .00761 | 2613.0 | .39588 | .01311 | 3.9123 | .23391 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | 50.000 | | | | | | |
| Low Limit | 10.000 | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.63153** | **.00259** | **.08289** | **.00047** | **.01454** | **.00641** | **.25860** | **.00690** |
| Stddev | .00094 | .00044 | .00006 | .00013 | .00654 | .00016 | .00170 | .00181 |
| %RSD | .14819 | 16.886 | .06739 | 26.838 | 44.933 | 2.5089 | .65741 | 26.247 |
| #1 | .63220 | .00228 | .08293 | .00038 | .01917 | .00630 | .25740 | .00818 |
| #2 | .63087 | .00290 | .08285 | .00055 | .00992 | .00653 | .25980 | .00562 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5394.8** | **69714.** | **4277.3** |
| Stddev | 5.8 | 108. | 35.4 |
| %RSD | .10692 | .15431 | .82823 |
| #1 | 5398.9 | 69637. | 4302.3 |
| #2 | 5390.8 | 69790. | 4252.2 |

Sample Name: sd 280-42165-A-1-A@5 Acquired: 5/17/2013 7:54:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00222** | **.49803** | **.00817** | **.13427** | **.01130** | **-.00001** | **.00228** | **10.386** | **.39063** |
| Stddev | .00077 | .00034 | .00293 | .00096 | .00015 | .00005 | .00035 | .002 | .00050 |
| %RSD | 34.744 | .06753 | 35.838 | .71269 | 1.3271 | 357.74 | 15.388 | .02381 | .12877 |
| #1 | .00167 | .49779 | .01024 | .13495 | .01119 | -.00005 | .00253 | 10.387 | .39099 |
| #2 | .00276 | .49826 | .00610 | .13359 | .01141 | .00002 | .00203 | 10.384 | .39027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00250** | **.00470** | **1.7740** | **1.7258** | **55.954** | **.02106** | **7.0846** | **.14905** | W **3.4108** |
| Stddev | .00005 | .00002 | .0015 | .0030 | .143 | .00208 | .0054 | .00018 | .0009 |
| %RSD | 2.1699 | .49435 | .08504 | .17178 | .25599 | 9.8531 | .07569 | .11760 | .02594 |
| #1 | .00246 | .00469 | 1.7729 | 1.7279 | 56.055 | .02253 | 7.0884 | .14893 | 3.4114 |
| #2 | .00254 | .00472 | 1.7751 | 1.7237 | 55.852 | .01959 | 7.0808 | .14918 | 3.4102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.01000 |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **418.94** | **.02009** | **22.404** | **.00100** | **714.97** | **.08404** | **.00294** | **.80406** | **.04924** |
| Stddev | 1.62 | .00017 | .012 | .00018 | .04 | .00182 | .00005 | .00184 | .00139 |
| %RSD | .38593 | .85518 | .05144 | 18.528 | .00561 | 2.1685 | 1.6708 | .22912 | 2.8309 |
| #1 | 420.08 | .02021 | 22.413 | .00087 | 714.94 | .08533 | .00290 | .80276 | .05023 |
| #2 | 417.80 | .01997 | 22.396 | .00113 | 715.00 | .08275 | .00297 | .80537 | .04826 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13354** | **.00305** | **.01719** | **.00098** | **-.01110** | **.00079** | **.05871** | **.00240** |
| Stddev | .00050 | .00141 | .00001 | .00140 | .01453 | .00034 | .00060 | .00142 |
| %RSD | .37293 | 46.296 | .04977 | 142.73 | 130.87 | 42.931 | 1.0154 | 58.898 |
| #1 | .13389 | .00405 | .01720 | -.00001 | -.02138 | .00103 | .05913 | .00340 |
| #2 | .13318 | .00205 | .01719 | .00196 | -.00083 | .00055 | .05829 | .00140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5831.7** | **75331.** | **4354.1** |
| Stddev | 14.3 | 308. | 15.9 |
| %RSD | .24475 | .40942 | .36446 |
| #1 | 5821.6 | 75113. | 4342.9 |
| #2 | 5841.8 | 75549. | 4365.3 |

Sample Name: 280-42165-A-2-A Acquired: 5/17/2013 7:57:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00226** | **.17203** | **.00797** | **.27809** | **.10642** | **-.00001** | **-.00016** | **69.741** | **.00029** |
| Stddev | .00005 | .00108 | .00249 | .00273 | .00106 | .00004 | .00172 | .740 | .00017 |
| %RSD | 2.1635 | .62568 | 31.185 | .98030 | .99915 | 277.54 | 1058.0 | 1.0607 | 58.354 |
| #1 | .00223 | .17279 | .00621 | .28002 | .10717 | .00001 | .00105 | 70.264 | .00041 |
| #2 | .00230 | .17127 | .00973 | .27616 | .10567 | -.00004 | -.00138 | 69.218 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **.00431** | **.00282** | **.52297** | W **336.76** | **.21361** | **61.847** | **.13317** | **.02275** |
| Stddev | .00002 | .00006 | .00016 | .00566 | 4.37 | .00342 | .395 | .00060 | .00065 |
| %RSD | 1.1942 | 1.3572 | 5.8278 | 1.0824 | 1.2989 | 1.6010 | .63873 | .44954 | 2.8537 |
| #1 | .00138 | .00435 | .00293 | .52698 | 339.85 | .21602 | 62.126 | .13359 | .02321 |
| #2 | .00136 | .00427 | .00270 | .51897 | 333.67 | .21119 | 61.568 | .13274 | .02229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **419.87** | **.01386** | **.41066** | **.00094** | **282.33** | **-.00012** | **.01462** | **4.2687** | **.01705** |
| Stddev | 3.92 | .00030 | .00399 | .00107 | .51 | .00129 | .00309 | .0633 | .00036 |
| %RSD | .93274 | 2.1561 | .97068 | 113.16 | .18208 | 1118.3 | 21.111 | 1.4830 | 2.1198 |
| #1 | 422.64 | .01408 | .41348 | .00169 | 282.69 | .00080 | .01244 | 4.3134 | .01731 |
| #2 | 417.10 | .01365 | .40785 | .00019 | 281.96 | -.00103 | .01681 | 4.2239 | .01680 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5124** | **.00140** | **.00643** | **-.00021** | **-.02591** | **.00653** | **.06742** | **.00383** |
| Stddev | .0175 | .00290 | .00009 | .00106 | .00994 | .00050 | .00011 | .00251 |
| %RSD | 1.1576 | 207.19 | 1.3376 | 502.52 | 38.365 | 7.6010 | .16115 | 65.610 |
| #1 | 1.5248 | -.00065 | .00649 | -.00096 | -.01888 | .00617 | .06750 | .00205 |
| #2 | 1.5000 | .00346 | .00637 | .00054 | -.03294 | .00688 | .06734 | .00560 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5655.9** | **72656.** | **4255.8** |
| Stddev | 11.0 | 737. | 52.6 |
| %RSD | .19390 | 1.0146 | 1.2357 |
| #1 | 5648.1 | 72135. | 4218.6 |
| #2 | 5663.7 | 73177. | 4292.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 8:00:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00656** | **47.946** | k **.00287** | **.00230** | k **-.00050** | k **-.00003** | k **.99864** | k **-.00640** | k **-.00086** | k **.00223** | k **.00025** | k **.00383** |
| Stddev | .00790 | .149 | .00130 | .00027 | .00026 | .00001 | .02202 | .00434 | .00008 | .00009 | .00029 | .00751 |
| %RSD | 120.55 | .31082 | 45.132 | 11.951 | 52.549 | 53.371 | 2.2046 | 67.835 | 9.1913 | 3.8079 | 114.15 | 196.28 |
| #1 | .00097 | 48.052 | .00195 | .00210 | -.00031 | -.00004 | 1.0142 | -.00333 | -.00081 | .00229 | .00005 | -.00148 |
| #2 | k .01215 | 47.841 | k .00379 | .00249 | k -.00068 | k -.00002 | k .98307 | k -.00947 | k -.00092 | k .00217 | k .00046 | k .00914 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **45.012** | **.47443** | k **-.00298** | k **-.09477** | **-.00011** | **-.00205** | F **278.50** | **.00132** | **.00671** | k **.00419** | **5.3754** | k **-.01194** |
| Stddev | .089 | .06466 | .00145 | .14932 | .00000 | .00017 | 1.05 | .00011 | .00099 | .00644 | .0168 | .01562 |
| %RSD | .19882 | 13.630 | 48.538 | 157.56 | 1.9027 | 8.3387 | .37675 | 8.3796 | 14.717 | 153.54 | .31214 | 130.91 |
| #1 | 45.075 | .52016 | -.00400 | .01082 | -.00011 | -.00193 | 279.24 | .00139 | .00741 | -.00036 | 5.3873 | -.00089 |
| #2 | k 44.949 | .42871 | k -.00196 | k -.20036 | -.00011 | -.00217 | 277.76 | .00124 | .00601 | k .00875 | 5.3636 | k -.02298 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00307** | k **.02093** | k **.00106** | **.00052** | k **5.3215** | k **.00922** | k **-.00289** | k **10.193** | k **-.00117** | k **.00306** | k **.07674** |
| Stddev | .01739 | .00130 | .00073 | .00022 | .1931 | .00945 | .00034 | .040 | .00058 | .00037 | .18657 |
| %RSD | 566.26 | 6.2299 | 69.239 | 42.272 | 3.6295 | 102.50 | 11.728 | .39400 | 49.189 | 12.112 | 243.12 |
| #1 | .00922 | .02001 | .00054 | .00036 | 5.1850 | .00254 | -.00265 | 10.221 | -.00158 | .00332 | -.05518 |
| #2 | k -.01537 | k .02186 | k .00157 | .00067 | k 5.4581 | k .01590 | k -.00313 | k 10.164 | k -.00076 | k .00280 | k .20866 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5848.8** | **74900.** | **4270.6** |
| Stddev | 41.1 | 347. | 3.7 |
| %RSD | .70346 | .46354 | .08775 |
| #1 | 5877.9 | 74655. | 4267.9 |
| #2 | 5819.7 | 75146. | 4273.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 8:02:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52300** | **.50956** | **1.0254** | **.53365** | **.53302** | **.47345** | **.00360** | **4.8656** | **.51608** | **.52678** | **.51068** | **.50616** |
| Stddev | .00042 | .00129 | .0027 | .00059 | .00010 | .00012 | .00349 | .0004 | .00051 | .00093 | .00005 | .00084 |
| %RSD | .07948 | .25246 | .25939 | .11045 | .01907 | .02496 | 96.997 | .00766 | .09838 | .17576 | .00959 | .16671 |
| #1 | .52329 | .51047 | 1.0272 | .53324 | .53309 | .47353 | .00607 | 4.8659 | .51572 | .52744 | .51071 | .50675 |
| #2 | .52271 | .50865 | 1.0235 | .53407 | .53295 | .47336 | .00113 | 4.8654 | .51644 | .52613 | .51064 | .50556 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2489** | F **55.777** | F **1.1065** | **20.117** | **.51820** | **.50294** | **5.4425** | **.51905** | **1.0430** | **1.0416** | **.14010** | **1.0418** |
| Stddev | .0151 | .058 | .0036 | .021 | .00016 | .00118 | .0065 | .00227 | .0053 | .0010 | .00172 | .0031 |
| %RSD | .67287 | .10358 | .32308 | .10370 | .03109 | .23464 | .12017 | .43761 | .51037 | .09758 | 1.2279 | .29241 |
| #1 | 2.2596 | 55.818 | 1.1040 | 20.131 | .51832 | .50210 | 5.4379 | .51744 | 1.0392 | 1.0409 | .14131 | 1.0396 |
| #2 | 2.2382 | 55.736 | 1.1091 | 20.102 | .51809 | .50377 | 5.4471 | .52065 | 1.0468 | 1.0424 | .13888 | 1.0439 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0553** | **4.5500** | **1.0010** | **.53796** | **.00460** | **.51533** | **1.0059** | **-.04549** | **.50670** | **.50516** | **.49318** |
| Stddev | .0022 | .0082 | .0028 | .00018 | .00362 | .00063 | .0009 | .01328 | .00206 | .00054 | .00306 |
| %RSD | .20592 | .17972 | .28383 | .03392 | 78.776 | .12148 | .08545 | 29.189 | .40584 | .10616 | .61999 |
| #1 | 1.0568 | 4.5558 | .99897 | .53783 | .00204 | .51489 | 1.0053 | -.05488 | .50816 | .50553 | .49534 |
| #2 | 1.0537 | 4.5442 | 1.0030 | .53809 | .00716 | .51577 | 1.0066 | -.03610 | .50525 | .50478 | .49101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5794.0** | **73274.** | **4180.3** |
| Stddev | .2 | 87. | 1.9 |
| %RSD | .00366 | .11903 | .04441 |
| #1 | 5794.1 | 73212. | 4179.0 |
| #2 | 5793.8 | 73335. | 4181.6 |

Sample Name: CCB Acquired: 5/17/2013 8:04:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00160** | **-.00020** | **.00314** | **.00061** | W **-.00068** | **.00000** | **.00355** | **-.00535** | **-.00000** | **.00031** | **.00038** |
| Stddev | .00063 | .00009 | .00086 | .00037 | .00010 | .00003 | .00011 | .00339 | .00001 | .00019 | .00001 |
| %RSD | 39.590 | 45.819 | 27.269 | 61.626 | 15.300 | 15463. | 3.1044 | 63.363 | 584.26 | 61.634 | 1.9563 |
| #1 | .00205 | -.00026 | .00374 | .00087 | -.00061 | .00002 | .00363 | -.00774 | .00001 | .00044 | .00038 |
| #2 | .00115 | -.00013 | .00253 | .00034 | -.00075 | -.00002 | .00347 | -.00295 | -.00001 | .00017 | .00037 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | .00058 | | | | | | |
| Low Limit | -.00093 | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00097** | **.01992** | **.22291** | **-.00222** | **.00022** | **-.00002** | **-.00022** | F **.14941** | **.00027** | **-.00024** | **-.00017** |
| Stddev | .00061 | .00086 | .06972 | .00020 | .00201 | .00001 | .00003 | .00021 | .00007 | .00005 | .00102 |
| %RSD | 62.665 | 4.3243 | 31.276 | 9.0873 | 919.85 | 55.554 | 15.660 | .14050 | 25.674 | 19.338 | 606.20 |
| #1 | -.00140 | .02053 | .17361 | -.00236 | .00164 | -.00001 | -.00019 | .14956 | .00022 | -.00021 | -.00089 |
| #2 | -.00054 | .01931 | .27221 | -.00207 | -.00120 | -.00003 | -.00024 | .14926 | .00032 | -.00028 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12568** | **.00012** | **.00169** | **-.00042** | **.00062** | **.00006** | **.00273** | **-.00030** | **-.00090** | **-.02367** | W **-.00128** |
| Stddev | .00133 | .00047 | .00272 | .00769 | .00052 | .00005 | .00030 | .00009 | .00019 | .04166 | .00014 |
| %RSD | 1.0549 | 383.30 | 161.17 | 1846.0 | 82.929 | 83.892 | 11.093 | 29.971 | 21.424 | 176.05 | 11.330 |
| #1 | .12662 | .00046 | .00362 | -.00585 | .00026 | .00010 | .00294 | -.00024 | -.00077 | .00579 | -.00138 |
| #2 | .12474 | -.00021 | -.00024 | .00502 | .00099 | .00003 | .00252 | -.00036 | -.00104 | -.05313 | -.00117 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00250** | W **.00278** |
| Stddev | .00012 | .00087 |
| %RSD | 4.6679 | 31.230 |
| #1 | .00241 | .00217 |
| #2 | .00258 | .00340 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5902.5** | **75121.** | **4232.4** |
| Stddev | 14.5 | 429. | 44.5 |
| %RSD | .24532 | .57087 | 1.0513 |
| #1 | 5912.8 | 74817. | 4200.9 |
| #2 | 5892.3 | 75424. | 4263.8 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 8:07:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01248** | **.10956** | W **.01858** | **.10973** | W **.01286** | **.00088** | **.10872** | **.19637** | **.00538** | **.01125** | **.01087** |
| Stddev | .00016 | .00094 | .00083 | .00037 | .00012 | .00002 | .00065 | .00490 | .00010 | .00004 | .00004 |
| %RSD | 1.2581 | .85350 | 4.4673 | .33858 | .92078 | 1.9300 | .60035 | 2.4973 | 1.8235 | .35715 | .40151 |
| #1 | .01259 | .10889 | .01799 | .11000 | .01278 | .00090 | .10918 | .19290 | .00545 | .01128 | .01084 |
| #2 | .01236 | .11022 | .01916 | .10947 | .01295 | .00087 | .10826 | .19984 | .00531 | .01122 | .01090 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | .01500 | | .01000 | | | | | | |
| Range | 20.000% | | 20.000% | | 20.000% | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01450** | F **.25973** | W **3.6527** | **.00991** | **.21112** | W **.01215** | **.02022** | W **1.2047** | **.04306** | **3.1419** | W **.01121** |
| Stddev | .00032 | .00143 | .0150 | .00022 | .00297 | .00004 | .00002 | .0104 | .00001 | .0069 | .00033 |
| %RSD | 2.2016 | .54935 | .41194 | 2.2571 | 1.4049 | .33944 | .08281 | .86620 | .02702 | .21893 | 2.9437 |
| #1 | .01428 | .25873 | 3.6633 | .00975 | .20903 | .01218 | .02021 | 1.2121 | .04305 | 3.1371 | .01144 |
| #2 | .01473 | .26074 | 3.6421 | .01007 | .21322 | .01212 | .02023 | 1.1973 | .04307 | 3.1468 | .01097 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn |
| Value | | .10000 | 3.0000 | | | .01000 | | 1.0000 | | | .00900 |
| Range | | 30.000% | 20.000% | | | 20.000% | | 20.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11304** | **.00980** | **.01799** | **.45803** | **.10297** | **.01109** | F **.01956** | **.01050** | **.01526** | F **.02838** | **.00850** |
| Stddev | .00228 | .00133 | .00414 | .00775 | .00015 | .00003 | .00244 | .00010 | .00069 | .03501 | .00062 |
| %RSD | 2.0137 | 13.576 | 23.007 | 1.6924 | .14262 | .30930 | 12.493 | .93646 | 4.5241 | 123.34 | 7.2428 |
| #1 | .11465 | .01074 | .01506 | .45255 | .10307 | .01111 | .01783 | .01043 | .01477 | .05314 | .00894 |
| #2 | .11144 | .00886 | .02092 | .46351 | .10287 | .01106 | .02129 | .01057 | .01575 | .00363 | .00807 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | .01500 | | | .06000 | |
| Range | | | | | | | 30.000% | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02612** | W **.01820** |
| Stddev | .00015 | .00166 |
| %RSD | .58380 | 9.0950 |
| #1 | .02623 | .01703 |
| #2 | .02601 | .01937 |
| Check ? | Chk Fail | Chk Warn |
| Value | .02000 | .01500 |
| Range | 30.000% | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5876.9** | **75101.** | **4264.7** |
| Stddev | 26.3 | 196. | .7 |
| %RSD | .44814 | .26061 | .01720 |
| #1 | 5858.3 | 74963. | 4265.2 |
| #2 | 5895.5 | 75239. | 4264.2 |

Sample Name: 280-42165-A-3-A  Acquired: 5/17/2013 8:09:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02313** | **40.275** | **.17922** | **.23463** | **1.0808** | **.00827** | **.09260** | **62.418** | **.06955** |
| Stddev | .00074 | .013 | .00317 | .00000 | .0066 | .00003 | .00034 | .090 | .00008 |
| %RSD | 3.2078 | .03232 | 1.7672 | .00158 | .61220 | .38577 | .36567 | .14442 | .11282 |
| #1 | .02365 | 40.284 | .17698 | .23464 | 1.0855 | .00825 | .09236 | 62.482 | .06961 |
| #2 | .02260 | 40.266 | .18146 | .23463 | 1.0761 | .00829 | .09284 | 62.354 | .06950 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05701** | **.37251** | **.45702** | **13.668** | **13.995** | **.12386** | **13.421** | **1.4617** | **.17030** |
| Stddev | .00004 | .00046 | .00013 | .043 | .010 | .00253 | .022 | .0015 | .00016 |
| %RSD | .06261 | .12335 | .02839 | .31560 | .07483 | 2.0463 | .16458 | .10486 | .09521 |
| #1 | .05703 | .37218 | .45693 | 13.699 | 13.988 | .12206 | 13.406 | 1.4606 | .17041 |
| #2 | .05698 | .37283 | .45711 | 13.638 | 14.003 | .12565 | 13.437 | 1.4628 | .17018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **350.31** | **.08161** | **9.5962** | **.20227** | **42.502** | **.04182** | **.15091** | **7.5467** | **.17014** |
| Stddev | 1.11 | .00056 | .0119 | .00041 | .101 | .00071 | .00560 | .0373 | .00057 |
| %RSD | .31724 | .68145 | .12401 | .20337 | .23863 | 1.7080 | 3.7110 | .49396 | .33474 |
| #1 | 351.10 | .08200 | 9.6047 | .20198 | 42.574 | .04132 | .14695 | 7.5204 | .16974 |
| #2 | 349.52 | .08122 | 9.5878 | .20257 | 42.431 | .04233 | .15487 | 7.5731 | .17054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59001** | **.07612** | **3.4579** | **.08076** | **.10898** | **.06684** | **2.2473** | **.02794** |
| Stddev | .00060 | .00075 | .0029 | .00033 | .02231 | .00029 | .0000 | .00123 |
| %RSD | .10137 | .98952 | .08459 | .41349 | 20.475 | .43703 | .00133 | 4.3984 |
| #1 | .59043 | .07666 | 3.4559 | .08053 | .09320 | .06705 | 2.2473 | .02707 |
| #2 | .58959 | .07559 | 3.4600 | .08100 | .12476 | .06664 | 2.2474 | .02881 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5724.1** | **73131.** | **4358.3** |
| Stddev | 30.0 | 20. | 31.7 |
| %RSD | .52413 | .02797 | .72786 |
| #1 | 5702.9 | 73117. | 4380.8 |
| #2 | 5745.4 | 73145. | 4335.9 |

Sample Name: 280-42165-A-4-A Acquired: 5/17/2013 8:12:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **.19867** | **9.5701** | kW **-.01625** | **.18534** | **.26035** | k **.00903** | k **.06432** | **46.345** | k **.02690** |
| Stddev | .00010 | .1047 | .00519 | .00004 | .00127 | .00019 | .00314 | .280 | .00019 |
| %RSD | .05234 | 1.0944 | 31.953 | .02298 | .48970 | 2.0609 | 4.8833 | .60474 | .69208 |
| #1 | k .19860 | 9.4960 | k -.01992 | .18537 | .25945 | k .00890 | k .06655 | 46.147 | k .02677 |
| #2 | k .19875 | 9.6441 | k -.01257 | .18531 | .26125 | k .00916 | k .06210 | 46.544 | k .02703 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | 45.000 | | | | | | |
| Low Limit | -.01000 | | -.01000 | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.03478** | **.34975** | k **.34934** | **21.619** | F **1382.1** | **.03830** | k **12.545** | ^ ***** | **.10176** |
| Stddev | .00041 | .00093 | .00016 | .118 | .8 | .00095 | .002 | ----- | .00018 |
| %RSD | 1.1678 | .26710 | .04688 | .54564 | .05764 | 2.4931 | .01233 | ----- | .18033 |
| #1 | k .03449 | .34909 | k .34922 | 21.536 | 1382.7 | .03763 | k 12.543 | ^ ----- | .10163 |
| #2 | k .03507 | .35041 | k .34945 | 21.703 | 1381.6 | .03898 | k 12.546 | ^ ----- | .10189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1886.6** | **1.1587** | **1.8052** | k **.49003** | k **3390.2** | k **.76909** | k **.36982** | **10.682** | F **1079.9** |
| Stddev | 11.3 | .0000 | .0072 | .00375 | 14.7 | .00090 | .00489 | .104 | 4.2 |
| %RSD | .59725 | .00176 | .40016 | .76577 | .43237 | .11756 | 1.3224 | .97233 | .39351 |
| #1 | 1878.7 | 1.1587 | 1.8001 | k .49268 | k 3400.5 | k .76845 | k .36636 | 10.608 | 1082.9 |
| #2 | 1894.6 | 1.1586 | 1.8103 | k .48738 | k 3379.8 | k .76973 | k .37328 | 10.755 | 1076.9 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | 500.00 | | | | | | | | 20.000 |
| Low Limit | 10.000 | | | | | | | | -.10000 |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39271** | kF **-.13826** | k **.44030** | k **.02731** | kF **-1.4528** | ^ ***** | **.27047** | k **.01160** |
| Stddev | .00173 | .00068 | .00082 | .00279 | .0182 | ----- | .00100 | .00080 |
| %RSD | .44060 | .49052 | .18726 | 10.229 | 1.2557 | ----- | .36966 | 6.8606 |
| #1 | .39148 | k -.13874 | k .43972 | k .02928 | k -1.4399 | ^ ----- | .26976 | k .01216 |
| #2 | .39393 | k -.13778 | k .44089 | k .02533 | k -1.4657 | ^ ----- | .27117 | k .01104 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 50.000 | | | 50.000 | | | |
| Low Limit | | -.02000 | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5427.2** | **64787.** | **3829.4** |
| Stddev | 12.6 | 98. | 6.0 |
| %RSD | .23261 | .15125 | .15715 |
| #1 | 5418.3 | 64718. | 3833.6 |
| #2 | 5436.2 | 64857. | 3825.1 |

Sample Name: 280-42165-A-5-A  Acquired: 5/17/2013 8:15:20  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00202** | **24.573** | **.03273** | **1.9385** | **.15633** | **.00097** | **.00248** | **220.51** | **.00227** |
| Stddev | .00066 | .045 | .00108 | .0047 | .00115 | .00006 | .00021 | .62 | .00011 |
| %RSD | 32.838 | .18175 | 3.2942 | .24053 | .73637 | 6.6536 | 8.2563 | .28087 | 4.6886 |
| #1 | .00250 | 24.604 | .03197 | 1.9418 | .15715 | .00102 | .00263 | 220.95 | .00219 |
| #2 | .00155 | 24.541 | .03349 | 1.9352 | .15552 | .00093 | .00234 | 220.07 | .00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01960** | **.09563** | **1.2163** | **38.344** | W **143.81** | **.89211** | **181.90** | **1.2320** | **.03482** |
| Stddev | .00033 | .00035 | .0046 | .160 | .19 | .00024 | 2.37 | .0054 | .00074 |
| %RSD | 1.6595 | .36459 | .37408 | .41714 | .13041 | .02702 | 1.3041 | .43811 | 2.1251 |
| #1 | .01937 | .09588 | 1.2131 | 38.457 | 143.94 | .89194 | 180.23 | 1.2282 | .03534 |
| #2 | .01983 | .09538 | 1.2195 | 38.231 | 143.68 | .89228 | 183.58 | 1.2358 | .03430 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3768.3** | **.25200** | **5.1794** | **.04555** | **833.70** | **.00535** | **.00463** | **27.775** | **.11920** |
| Stddev | 19.5 | .00022 | .0129 | .00091 | 1.40 | .00287 | .00298 | .050 | .02247 |
| %RSD | .51860 | .08897 | .24949 | 1.9873 | .16794 | 53.745 | 64.376 | .18036 | 18.852 |
| #1 | 3782.1 | .25184 | 5.1886 | .04619 | 834.69 | .00332 | .00252 | 27.740 | .13509 |
| #2 | 3754.4 | .25216 | 5.1703 | .04491 | 832.71 | .00738 | .00674 | 27.810 | .10331 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.4137** | **.01318** | **.44043** | **-.00220** | **-.03002** | **.03859** | **5.3607** | **.00489** |
| Stddev | .0086 | .00095 | .00012 | .00153 | .01638 | .00047 | .0234 | .00055 |
| %RSD | .19445 | 7.2359 | .02711 | 69.756 | 54.554 | 1.2175 | .43643 | 11.305 |
| #1 | 4.4198 | .01385 | .44034 | -.00328 | -.04160 | .03826 | 5.3442 | .00528 |
| #2 | 4.4076 | .01250 | .44051 | -.00111 | -.01844 | .03892 | 5.3773 | .00450 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5284.1** | **68721.** | **4200.4** |
| Stddev | 4.4 | 318. | 45.9 |
| %RSD | .08290 | .46212 | 1.0916 |
| #1 | 5287.2 | 68945. | 4168.0 |
| #2 | 5281.0 | 68496. | 4232.9 |

Sample Name: 280-42165-A-6-A Acquired: 5/17/2013 8:18:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00515** | **12.516** | **.02192** | **1.4164** | **.33739** | **.00077** | **.00336** | **130.68** | **.00420** |
| Stddev | .00015 | .022 | .00342 | .0006 | .00036 | .00009 | .00184 | .29 | .00014 |
| %RSD | 2.8229 | .17200 | 15.601 | .04420 | .10712 | 12.095 | 54.759 | .22072 | 3.3987 |
| #1 | .00525 | 12.531 | .02434 | 1.4160 | .33765 | .00070 | .00206 | 130.88 | .00431 |
| #2 | .00505 | 12.501 | .01950 | 1.4169 | .33714 | .00083 | .00466 | 130.48 | .00410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01684** | **.24694** | **1.4621** | **51.187** | W **142.31** | **.17318** | **68.739** | **1.4634** | **.25396** |
| Stddev | .00031 | .00086 | .0032 | .023 | .22 | .00054 | .084 | .3303 | .00006 |
| %RSD | 1.8158 | .34696 | .21943 | .04546 | .15297 | .31025 | .12217 | 22.570 | .02319 |
| #1 | .01705 | .24755 | 1.4599 | 51.204 | 142.46 | .17280 | 68.799 | 1.2299 | .25400 |
| #2 | .01662 | .24634 | 1.4644 | 51.171 | 142.16 | .17356 | 68.680 | 1.6970 | .25392 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1170.8** | **.29252** | **1.8547** | **.06233** | **368.31** | **.00962** | **.01282** | **15.216** | **.24127** |
| Stddev | 4.7 | .00085 | .0046 | .00039 | .06 | .00001 | .00060 | .046 | .22758 |
| %RSD | .40354 | .28890 | .24979 | .62806 | .01627 | .09150 | 4.6934 | .30095 | 94.329 |
| #1 | 1174.1 | .29312 | 1.8579 | .06261 | 368.35 | .00962 | .01325 | 15.183 | .40219 |
| #2 | 1167.4 | .29193 | 1.8514 | .06206 | 368.26 | .00961 | .01239 | 15.248 | .08034 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6356** | **.01830** | **.29372** | **-.00051** | **-.04398** | **.03592** | **2.7478** | **.00650** |
| Stddev | .0019 | .00194 | .00094 | .00040 | .01632 | .00000 | .0093 | .00070 |
| %RSD | .11665 | 10.626 | .32030 | 77.269 | 37.109 | .00297 | .33917 | 10.703 |
| #1 | 1.6369 | .01967 | .29306 | -.00079 | -.03244 | .03592 | 2.7544 | .00601 |
| #2 | 1.6342 | .01692 | .29439 | -.00023 | -.05552 | .03592 | 2.7412 | .00699 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5536.8** | **70028.** | **4170.0** |
| Stddev | 15.2 | 448. | 22.6 |
| %RSD | .27383 | .64021 | .54155 |
| #1 | 5526.1 | 69711. | 4154.0 |
| #2 | 5547.6 | 70345. | 4185.9 |

Sample Name: 280-42165-A-7-A  Acquired: 5/17/2013 8:21:21  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00221** | **10.448** | **.04855** | **2.6113** | **1.0310** | **.00035** | **.00566** | **124.73** | **.06172** |
| Stddev | .00008 | .033 | .00089 | .0045 | .0033 | .00006 | .00103 | .31 | .00024 |
| %RSD | 3.5002 | .31163 | 1.8326 | .17050 | .32327 | 16.134 | 18.165 | .24928 | .38437 |
| #1 | .00216 | 10.425 | .04792 | 2.6144 | 1.0334 | .00031 | .00639 | 124.95 | .06189 |
| #2 | .00227 | 10.471 | .04917 | 2.6081 | 1.0287 | .00039 | .00493 | 124.51 | .06155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02226** | **.10779** | **1.2458** | **38.516** | **42.854** | **.13842** | **41.783** | **1.1843** | **.13118** |
| Stddev | .00004 | .00023 | .0007 | .088 | .024 | .00063 | .009 | .0006 | .00106 |
| %RSD | .16759 | .21595 | .05733 | .22868 | .05497 | .45639 | .02163 | .04909 | .80787 |
| #1 | .02229 | .10795 | 1.2453 | 38.578 | 42.871 | .13798 | 41.777 | 1.1838 | .13193 |
| #2 | .02224 | .10763 | 1.2463 | 38.453 | 42.838 | .13887 | 41.790 | 1.1847 | .13043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **846.89** | **.25430** | **6.1435** | **.12713** | **458.79** | **.00553** | **.00665** | **18.096** | **.45616** |
| Stddev | 2.43 | .00137 | .0222 | .00128 | .84 | .00007 | .00027 | .081 | .09022 |
| %RSD | .28738 | .53922 | .36190 | 1.0107 | .18387 | 1.2077 | 4.0394 | .44999 | 19.778 |
| #1 | 848.62 | .25527 | 6.1593 | .12622 | 459.39 | .00558 | .00646 | 18.039 | .39237 |
| #2 | 845.17 | .25333 | 6.1278 | .12803 | 458.19 | .00548 | .00684 | 18.154 | .51996 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5606** | **.01768** | **.29876** | **.00022** | F **-.10567** | **.08780** | **4.9776** | **.02561** |
| Stddev | .0034 | .00019 | .00075 | .00078 | .00557 | .00016 | .0031 | .00143 |
| %RSD | .21681 | 1.0698 | .25104 | 361.72 | 5.2742 | .17906 | .06256 | 5.6030 |
| #1 | 1.5630 | .01755 | .29823 | -.00034 | -.10961 | .08791 | 4.9754 | .02459 |
| #2 | 1.5582 | .01781 | .29929 | .00077 | -.10173 | .08769 | 4.9798 | .02662 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5615.1** | **71914.** | **4232.0** |
| Stddev | 24.9 | 70. | 15.5 |
| %RSD | .44356 | .09664 | .36573 |
| #1 | 5597.5 | 71865. | 4221.0 |
| #2 | 5632.7 | 71963. | 4242.9 |

Sample Name: 280-42165-A-8-A Acquired: 5/17/2013 8:24:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00477** | **23.207** | **.19933** | **5.0077** | **.78814** | **.00084** | **.02190** | **228.41** | **.03184** |
| Stddev | .00070 | .028 | .00104 | .0039 | .00168 | .00007 | .00001 | .00 | .00022 |
| %RSD | 14.752 | .11909 | .52114 | .07810 | .21275 | 8.6317 | .02949 | .00088 | .70370 |
| #1 | .00428 | 23.227 | .19859 | 5.0049 | .78933 | .00089 | .02190 | 228.41 | .03168 |
| #2 | .00527 | 23.188 | .20006 | 5.0104 | .78696 | .00079 | .02191 | 228.41 | .03200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02432** | **.11843** | **2.1335** | **51.615** | **76.953** | **.13944** | **117.12** | **2.1216** | **.16294** |
| Stddev | .00021 | .00004 | .0043 | .065 | .042 | .00230 | .02 | .0014 | .00043 |
| %RSD | .86822 | .03204 | .20022 | .12498 | .05504 | 1.6518 | .01318 | .06542 | .26361 |
| #1 | .02447 | .11845 | 2.1305 | 51.570 | 76.923 | .13781 | 117.13 | 2.1226 | .16263 |
| #2 | .02418 | .11840 | 2.1366 | 51.661 | 76.983 | .14107 | 117.11 | 2.1206 | .16324 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1509.7** | **.40624** | **6.5801** | **.15024** | **477.69** | **.00588** | **.01209** | **40.526** | **.10691** |
| Stddev | 1.7 | .00039 | .0117 | .00211 | .11 | .00028 | .00009 | .097 | .00207 |
| %RSD | .11564 | .09612 | .17719 | 1.4035 | .02275 | 4.8362 | .77811 | .24030 | 1.9397 |
| #1 | 1510.9 | .40652 | 6.5718 | .15173 | 477.61 | .00608 | .01216 | 40.457 | .10544 |
| #2 | 1508.5 | .40597 | 6.5883 | .14875 | 477.76 | .00568 | .01202 | 40.595 | .10837 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0689** | **.01815** | **.84356** | **-.00167** | F **-.11158** | **.11591** | **3.4484** | **.00626** |
| Stddev | .0005 | .00057 | .00100 | .00013 | .00241 | .00062 | .0095 | .00190 |
| %RSD | .01536 | 3.1606 | .11866 | 8.0150 | 2.1632 | .53466 | .27505 | 30.367 |
| #1 | 3.0686 | .01855 | .84285 | -.00158 | -.11329 | .11635 | 3.4551 | .00761 |
| #2 | 3.0692 | .01774 | .84427 | -.00177 | -.10987 | .11547 | 3.4417 | .00492 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5595.9** | **71600.** | **4270.8** |
| Stddev | 5.1 | 124. | 15.9 |
| %RSD | .09160 | .17299 | .37177 |
| #1 | 5592.3 | 71512. | 4259.5 |
| #2 | 5599.5 | 71687. | 4282.0 |

Sample Name: 280-42165-A-9-A Acquired: 5/17/2013 8:27:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00250** | **12.835** | **.10056** | **3.1907** | **.31385** | **.00067** | **.00473** | **174.74** | **.30832** |
| Stddev | .00030 | .026 | .00045 | .0232 | .00087 | .00001 | .00211 | .02 | .00259 |
| %RSD | 11.831 | .20502 | .44799 | .72547 | .27695 | 1.7607 | 44.671 | .01303 | .84033 |
| #1 | .00229 | 12.854 | .10024 | 3.1744 | .31447 | .00068 | .00324 | 174.73 | .30649 |
| #2 | .00271 | 12.817 | .10088 | 3.2071 | .31324 | .00066 | .00622 | 174.76 | .31015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03219** | **.10852** | **.98059** | **39.908** | **56.850** | **.24324** | **79.863** | **2.9870** | **.12574** |
| Stddev | .00035 | .00022 | .00514 | .010 | .245 | .00006 | .262 | .0093 | .00025 |
| %RSD | 1.0728 | .20212 | .52424 | .02578 | .43086 | .02526 | .32754 | .31152 | .19785 |
| #1 | .03243 | .10836 | .97695 | 39.915 | 56.677 | .24319 | 79.678 | 2.9804 | .12556 |
| #2 | .03195 | .10868 | .98422 | 39.901 | 57.023 | .24328 | 80.048 | 2.9935 | .12592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2006.6** | **.38998** | **3.0339** | **.04770** | **623.95** | **.00760** | **.04654** | **26.563** | **.50927** |
| Stddev | 3.7 | .00070 | .0006 | .00014 | 4.74 | .00041 | .00056 | .019 | .00042 |
| %RSD | .18486 | .17858 | .01842 | .29478 | .75946 | 5.3943 | 1.2028 | .07057 | .08331 |
| #1 | 2009.2 | .38948 | 3.0336 | .04780 | 620.60 | .00731 | .04614 | 26.576 | .50897 |
| #2 | 2004.0 | .39047 | 3.0343 | .04760 | 627.30 | .00789 | .04693 | 26.549 | .50957 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0751** | **.01531** | **.39734** | **.00618** | **-.04303** | **.05033** | **4.9583** | **.01822** |
| Stddev | .0007 | .00013 | .00148 | .00046 | .03314 | .00034 | .0128 | .00054 |
| %RSD | .03262 | .84108 | .37159 | 7.4890 | 77.017 | .67752 | .25796 | 2.9811 |
| #1 | 2.0746 | .01522 | .39629 | .00586 | -.06646 | .05009 | 4.9492 | .01861 |
| #2 | 2.0756 | .01540 | .39838 | .00651 | -.01960 | .05057 | 4.9673 | .01784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5505.9** | **70877.** | **4236.0** |
| Stddev | 20.0 | 71. | 6.3 |
| %RSD | .36306 | .10053 | .14801 |
| #1 | 5520.1 | 70927. | 4240.4 |
| #2 | 5491.8 | 70826. | 4231.6 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 8:30:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01206** | **47.101** | k **-.00134** | **.01168** | k **-.00052** | k **-.00007** | k **.99610** | k **.00858** | k **-.00077** | k **.00207** | k **.00060** | k **.01016** |
| Stddev | .00013 | .152 | .00096 | .00095 | .00028 | .00017 | .01432 | .00496 | .00014 | .00004 | .00005 | .00054 |
| %RSD | 1.0994 | .32204 | 71.423 | 8.1174 | 53.958 | 237.57 | 1.4374 | 57.836 | 18.001 | 1.8097 | 7.6072 | 5.2865 |
| #1 | k .01215 | 47.209 | k -.00066 | .01235 | k -.00073 | k -.00019 | k .98597 | k .01209 | k -.00067 | k .00204 | k .00057 | k .00978 |
| #2 | k .01196 | 46.994 | k -.00201 | .01101 | k -.00032 | k .00005 | k 1.0062 | k .00507 | k -.00087 | k .00209 | k .00064 | k .01054 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.323** | **.94697** | k **.00077** | k **-.18816** | **.01496** | **-.00215** | F **277.17** | **.00130** | **.00689** | k **.00859** | **5.6219** | k **-.02616** |
| Stddev | .106 | .00573 | .00247 | .00376 | .00028 | .00027 | 1.41 | .00026 | .00111 | .00088 | .0572 | .00164 |
| %RSD | .24012 | .60554 | 320.21 | 1.9982 | 1.8389 | 12.625 | .50697 | 20.176 | 16.164 | 10.302 | 1.0169 | 6.2871 |
| #1 | k 44.398 | .94292 | k -.00098 | k -.18550 | .01516 | -.00234 | 278.16 | .00111 | .00768 | k .00796 | 5.5815 | k -.02500 |
| #2 | k 44.247 | .95103 | .00252 | k -.19082 | .01477 | -.00196 | 276.17 | .00148 | .00610 | k .00921 | 5.6624 | k -.02733 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01347** | k **.01238** | k **.04978** | **.00073** | k **5.3780** | k **.01579** | k **-.00471** | k **10.100** | k **-.00026** | **.03085** | k **.20723** |
| Stddev | .00229 | .00872 | .00112 | .00004 | .0229 | .00045 | .00174 | .016 | .00073 | .00045 | .00105 |
| %RSD | 17.025 | 70.457 | 2.2559 | 5.9588 | .42644 | 2.8296 | 36.840 | .16201 | 279.81 | 1.4692 | .50805 |
| #1 | k -.01185 | k .01855 | k .05058 | .00076 | k 5.3617 | k .01611 | k -.00594 | k 10.088 | k -.00078 | .03117 | k .20798 |
| #2 | k -.01509 | k .00621 | k .04899 | .00070 | k 5.3942 | k .01547 | k -.00349 | k 10.111 | k .00026 | .03053 | k .20649 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5647.0** | **72864.** | **4122.5** |
| Stddev | 46.4 | 167. | 37.7 |
| %RSD | .82160 | .22974 | .91532 |
| #1 | 5679.8 | 72982. | 4095.8 |
| #2 | 5614.2 | 72746. | 4149.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 8:33:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50768** | **.49664** | **1.0005** | **.51995** | **.52347** | **.46433** | **-.00223** | **4.7671** | **.50046** | **.51178** | **.49851** | **.49108** |
| Stddev | .00118 | .00235 | .0028 | .00077 | .00631 | .00451 | .00410 | .0361 | .00072 | .00072 | .00079 | .00272 |
| %RSD | .23187 | .47407 | .27780 | .14831 | 1.2060 | .97089 | 183.27 | .75644 | .14288 | .13997 | .15763 | .55442 |
| #1 | .50852 | .49831 | 1.0025 | .52050 | .51901 | .46114 | -.00513 | 4.7416 | .50096 | .51229 | .49906 | .49300 |
| #2 | .50685 | .49498 | .99855 | .51941 | .52794 | .46752 | .00066 | 4.7926 | .49995 | .51127 | .49795 | .48915 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1561** | F **55.125** | **1.0938** | **19.781** | **.51617** | **.49137** | F **5.8026** | **.50661** | **1.0137** | **1.0143** | **.24911** | **1.0085** |
| Stddev | .0148 | .567 | .0110 | .115 | .00232 | .00230 | .0317 | .00159 | .0021 | .0001 | .01072 | .0023 |
| %RSD | .68737 | 1.0284 | 1.0091 | .57982 | .44918 | .46823 | .54627 | .31366 | .20198 | .00836 | 4.3018 | .22370 |
| #1 | 2.1457 | 54.724 | 1.0860 | 19.862 | .51781 | .49299 | 5.7801 | .50773 | 1.0152 | 1.0142 | .25669 | 1.0101 |
| #2 | 2.1666 | 55.526 | 1.1016 | 19.700 | .51453 | .48974 | 5.8250 | .50549 | 1.0123 | 1.0144 | .24153 | 1.0069 |
| Check ? | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0249** | F **4.4767** | **1.0133** | **.52505** | **.00131** | **.50169** | **.97943** | **-.01874** | **.49479** | **.49435** | **.47950** |
| Stddev | .0013 | .0496 | .0049 | .00526 | .00069 | .00155 | .00320 | .02144 | .00245 | .00378 | .00158 |
| %RSD | .12460 | 1.1084 | .47981 | 1.0025 | 53.103 | .30867 | .32674 | 114.43 | .49421 | .76474 | .32934 |
| #1 | 1.0258 | 4.4416 | 1.0168 | .52133 | .00082 | .50279 | .98170 | -.03390 | .49652 | .49703 | .47839 |
| #2 | 1.0240 | 4.5117 | 1.0099 | .52877 | .00180 | .50060 | .97717 | -.00358 | .49306 | .49168 | .48062 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5803.8** | **72879.** | **4096.4** |
| Stddev | 9.7 | 299. | 47.6 |
| %RSD | .16690 | .40971 | 1.1626 |
| #1 | 5796.9 | 72668. | 4130.1 |
| #2 | 5810.6 | 73090. | 4062.8 |

Sample Name: CCB Acquired: 5/17/2013 8:35:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00198** | **.00010** | **.00197** | F **.00457** | W **-.00110** | **.00002** | **.00192** | **.00320** | **-.00002** | **.00038** | **.00026** |
| Stddev | .00014 | .00018 | .00136 | .00086 | .00060 | .00005 | .00362 | .00282 | .00001 | .00020 | .00003 |
| %RSD | 7.1716 | 173.06 | 69.014 | 18.774 | 54.787 | 251.24 | 188.69 | 88.158 | 24.353 | 51.794 | 10.305 |
| #1 | .00208 | -.00002 | .00101 | .00518 | -.00153 | -.00001 | -.00064 | .00519 | -.00002 | .00024 | .00028 |
| #2 | .00188 | .00023 | .00294 | .00396 | -.00067 | .00005 | .00448 | .00120 | -.00003 | .00052 | .00024 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00180 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00103** | **-.00052** | F **.67858** | **.00014** | **.00523** | F **.00365** | **-.00038** | F **.46201** | **.00020** | **.00204** | **.00127** |
| Stddev | .00039 | .00024 | .02681 | .00276 | .00152 | .00012 | .00005 | .03098 | .00007 | .00188 | .00148 |
| %RSD | 37.744 | 47.262 | 3.9512 | 2017.7 | 29.096 | 3.3897 | 14.418 | 6.7053 | 34.542 | 92.028 | 116.91 |
| #1 | -.00130 | -.00069 | .65962 | .00209 | .00631 | .00374 | -.00034 | .48392 | .00015 | .00338 | .00231 |
| #2 | -.00075 | -.00034 | .69754 | -.00182 | .00416 | .00357 | -.00042 | .44011 | .00025 | .00071 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | .00051 | | .10000 | | | |
| Low Limit | | | -.25000 | | | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16764** | **-.00164** | **.00111** | **.00762** | F **.01213** | **.00023** | **.00333** | **-.00000** | **.00095** | **-.03858** | W **-.00125** |
| Stddev | .00059 | .00135 | .00228 | .00492 | .00109 | .00004 | .00098 | .00025 | .00176 | .01103 | .00052 |
| %RSD | .35473 | 82.565 | 205.63 | 64.590 | 8.9723 | 16.649 | 29.442 | 5336.6 | 185.44 | 28.594 | 42.011 |
| #1 | .16722 | -.00068 | -.00050 | .01110 | .01290 | .00020 | .00263 | .00017 | .00219 | -.03078 | -.00088 |
| #2 | .16806 | -.00259 | .00272 | .00414 | .01136 | .00026 | .00402 | -.00018 | -.00029 | -.04638 | -.00162 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | .01166 | | | | | | .00111 |
| Low Limit | | | | | -.01166 | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00261** | **.00223** |
| Stddev | .00009 | .00218 |
| %RSD | 3.3391 | 97.447 |
| #1 | .00267 | .00069 |
| #2 | .00255 | .00377 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5884.5** | **74674.** | **4138.4** |
| Stddev | 5.3 | 137. | 52.5 |
| %RSD | .09059 | .18318 | 1.2695 |
| #1 | 5888.3 | 74577. | 4101.3 |
| #2 | 5880.7 | 74771. | 4175.6 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 8:38:04 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01173** | **.10511** | W **.01919** | **.10929** | **.00978** | **.00087** | **.10734** | **.19410** | **.00516** | **.01086** | **.01067** |
| Stddev | .00009 | .00022 | .00189 | .00042 | .00025 | .00013 | .00149 | .00166 | .00018 | .00007 | .00006 |
| %RSD | .76552 | .20612 | 9.8597 | .38057 | 2.5602 | 14.679 | 1.3863 | .85423 | 3.4015 | .66227 | .59278 |
| #1 | .01180 | .10495 | .01785 | .10899 | .00996 | .00096 | .10839 | .19527 | .00504 | .01091 | .01062 |
| #2 | .01167 | .10526 | .02053 | .10958 | .00960 | .00078 | .10629 | .19293 | .00528 | .01081 | .01071 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01419** | **.08762** | F **3.9707** | **.00988** | **.21177** | W **.01236** | **.02004** | F **1.4677** | **.04221** | **3.0453** | **.00902** |
| Stddev | .00028 | .00298 | .0226 | .00332 | .00062 | .00003 | .00008 | .0340 | .00011 | .0060 | .00126 |
| %RSD | 1.9500 | 3.4051 | .56836 | 33.620 | .29341 | .21683 | .39239 | 2.3195 | .26009 | .19625 | 13.912 |
| #1 | .01400 | .08973 | 3.9547 | .00753 | .21133 | .01238 | .02010 | 1.4918 | .04213 | 3.0411 | .00813 |
| #2 | .01439 | .08551 | 3.9866 | .01223 | .21221 | .01234 | .01998 | 1.4437 | .04228 | 3.0495 | .00991 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | .01000 | | 1.0000 | | | |
| Range | | | 30.000% | | | 20.000% | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13527** | W **.00744** | **.01406** | **.45377** | **.10981** | **.01077** | **.01739** | **.01005** | **.01382** | F **.00870** | **.00866** |
| Stddev | .00466 | .00166 | .00160 | .00454 | .00020 | .00002 | .00227 | .00041 | .00123 | .00496 | .00010 |
| %RSD | 3.4481 | 22.352 | 11.411 | 1.0002 | .18641 | .22550 | 13.050 | 4.0943 | 8.8744 | 57.067 | 1.1166 |
| #1 | .13857 | .00626 | .01292 | .45056 | .10966 | .01079 | .01579 | .01034 | .01468 | .01221 | .00873 |
| #2 | .13197 | .00862 | .01519 | .45698 | .10995 | .01076 | .01900 | .00976 | .01295 | .00519 | .00859 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | -20.000% | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02611** | **.01667** |
| Stddev | .00012 | .00158 |
| %RSD | .45347 | 9.4751 |
| #1 | .02603 | .01556 |
| #2 | .02619 | .01779 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5905.0** | **74994.** | **4197.4** |
| Stddev | 4.0 | 1. | 32.8 |
| %RSD | .06829 | .00122 | .78188 |
| #1 | 5902.1 | 74993. | 4174.2 |
| #2 | 5907.8 | 74995. | 4220.6 |

Sample Name: 280-41656-h-3-c Acquired: 5/17/2013 8:40:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172866

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00177** | **1.0368** | **.01383** | **.79832** | **.02764** | **-.00010** | **-.00370** | **328.24** | **.00010** |
| Stddev | .00015 | .0010 | .00106 | .00225 | .00007 | .00004 | .00037 | 1.84 | .00013 |
| %RSD | 8.6906 | .10016 | 7.6603 | .28223 | .24659 | 35.113 | 10.111 | .56204 | 120.75 |
| #1 | .00166 | 1.0360 | .01308 | .79991 | .02769 | -.00008 | -.00343 | 329.54 | .00019 |
| #2 | .00188 | 1.0375 | .01458 | .79672 | .02759 | -.00013 | -.00396 | 326.93 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00939** | **.00308** | **.00117** | **3.5239** | **5.3180** | **.05055** | **228.37** | **4.3866** | **.00400** |
| Stddev | .00024 | .00001 | .00051 | .0085 | .0023 | .00054 | .87 | .0052 | .00027 |
| %RSD | 2.5704 | .30305 | 43.330 | .24139 | .04363 | 1.0640 | .37983 | .11864 | 6.6728 |
| #1 | .00956 | .00307 | .00153 | 3.5179 | 5.3196 | .05017 | 227.75 | 4.3829 | .00419 |
| #2 | .00922 | .00309 | .00081 | 3.5299 | 5.3163 | .05093 | 228.98 | 4.3903 | .00381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.177** | **.01377** | **.20210** | **.00579** | **395.36** | **.00030** | **.00244** | **10.647** | **.00628** |
| Stddev | .258 | .00017 | .00113 | .00182 | .33 | .00099 | .00085 | .037 | .00026 |
| %RSD | .37804 | 1.2212 | .55816 | 31.454 | .08387 | 325.81 | 34.731 | .34676 | 4.0959 |
| #1 | 68.359 | .01365 | .20130 | .00451 | 395.60 | .00100 | .00304 | 10.673 | .00609 |
| #2 | 67.995 | .01389 | .20289 | .00708 | 395.13 | -.00039 | .00184 | 10.621 | .00646 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4134** | **.00409** | **.01784** | **-.00281** | W **-.08237** | **.00061** | **.00660** | **.00548** |
| Stddev | .0050 | .00155 | .00014 | .00147 | .06269 | .00010 | .00025 | .00277 |
| %RSD | .35171 | 37.896 | .79711 | 52.461 | 76.108 | 16.475 | 3.8297 | 50.608 |
| #1 | 1.4169 | .00519 | .01795 | -.00177 | -.12670 | .00054 | .00677 | .00352 |
| #2 | 1.4099 | .00300 | .01774 | -.00385 | -.03804 | .00068 | .00642 | .00744 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5727.1** | **75301.** | **4170.0** |
| Stddev | 38.9 | 967. | 77.0 |
| %RSD | .67848 | 1.2846 | 1.8461 |
| #1 | 5754.6 | 74617. | 4115.6 |
| #2 | 5699.6 | 75985. | 4224.4 |

Sample Name: 280-41656-h-4-c Acquired: 5/17/2013 8:43:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172866

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00129** | **16.113** | **.02052** | **.44187** | **.22093** | **.00082** | **-.00659** | **372.08** | **.00102** |
| Stddev | .00031 | .019 | .00076 | .00041 | .00128 | .00008 | .00127 | 7.26 | .00023 |
| %RSD | 23.642 | .11900 | 3.6900 | .09271 | .57827 | 9.7104 | 19.265 | 1.9512 | 22.371 |
| #1 | .00108 | 16.126 | .01998 | .44158 | .22183 | .00088 | -.00569 | 366.95 | .00086 |
| #2 | .00151 | 16.099 | .02105 | .44215 | .22003 | .00076 | -.00749 | 377.21 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03294** | **.04768** | **.03323** | **26.049** | **9.8489** | **.07283** | **166.09** | **2.8985** | **.00389** |
| Stddev | .00035 | .00003 | .00004 | .023 | .0423 | .00087 | 1.53 | .0137 | .00028 |
| %RSD | 1.0510 | .06323 | .11981 | .08810 | .42933 | 1.1982 | .91844 | .47204 | 7.1870 |
| #1 | .03269 | .04766 | .03326 | 26.066 | 9.8190 | .07344 | 167.17 | 2.9082 | .00409 |
| #2 | .03318 | .04771 | .03320 | 26.033 | 9.8788 | .07221 | 165.02 | 2.8888 | .00370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.863** | **.06023** | **.99841** | **.02570** | **300.69** | **-.00014** | **.00097** | **31.054** | **.00580** |
| Stddev | .296 | .00028 | .00389 | .00013 | 1.04 | .00062 | .00058 | .258 | .00019 |
| %RSD | .53902 | .46304 | .38966 | .49761 | .34738 | 453.45 | 59.607 | .82953 | 3.2223 |
| #1 | 54.654 | .06003 | .99566 | .02580 | 299.95 | -.00057 | .00056 | 30.872 | .00567 |
| #2 | 55.072 | .06043 | 1.0012 | .02561 | 301.43 | .00030 | .00137 | 31.236 | .00593 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1001** | **.01852** | **.21326** | **-.00220** | W **-.08145** | **.03128** | **.11702** | **.00791** |
| Stddev | .0023 | .00119 | .00140 | .00088 | .05464 | .00013 | .00145 | .00104 |
| %RSD | .21221 | 6.4422 | .65673 | 39.940 | 67.092 | .40650 | 1.2357 | 13.112 |
| #1 | 1.1018 | .01936 | .21425 | -.00282 | -.04281 | .03119 | .11805 | .00865 |
| #2 | 1.0985 | .01767 | .21227 | -.00158 | -.12009 | .03137 | .11600 | .00718 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5758.9** | **74078.** | **4366.0** |
| Stddev | 4.2 | 874. | 39.9 |
| %RSD | .07369 | 1.1804 | .91444 |
| #1 | 5755.9 | 73460. | 4394.3 |
| #2 | 5761.9 | 74697. | 4337.8 |

Sample Name: 280-41656-4-6-c Acquired: 5/17/2013 8:45:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172866

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00212** | **.16852** | **-.00031** | **.68582** | **.05980** | **-.00011** | **-.00219** | **304.19** | **.00031** |
| Stddev | .00020 | .00262 | .00410 | .00684 | .00039 | .00000 | .00183 | .28 | .00001 |
| %RSD | 9.5369 | 1.5546 | 1305.5 | .99722 | .65436 | 3.4013 | 83.684 | .09205 | 2.9206 |
| #1 | .00226 | .16667 | -.00321 | .68099 | .05953 | -.00012 | -.00348 | 303.99 | .00031 |
| #2 | .00197 | .17037 | .00258 | .69066 | .06008 | -.00011 | -.00089 | 304.38 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00362** | **.00113** | **-.00030** | **6.2904** | **11.527** | **.03463** | **202.61** | **3.6342** | **-.00005** |
| Stddev | .00012 | .00015 | .00016 | .0266 | .001 | .00060 | 1.78 | .0278 | .00013 |
| %RSD | 3.1819 | 13.363 | 55.192 | .42203 | .00942 | 1.7446 | .88061 | .76436 | 249.74 |
| #1 | .00353 | .00124 | -.00018 | 6.3092 | 11.526 | .03506 | 203.88 | 3.6538 | .00004 |
| #2 | .00370 | .00102 | -.00041 | 6.2716 | 11.527 | .03420 | 201.35 | 3.6145 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **94.578** | **.00242** | **.26253** | **.00113** | **346.56** | **-.00075** | **.00088** | **8.0779** | **.00493** |
| Stddev | .536 | .00002 | .00166 | .00078 | 3.15 | .00163 | .00061 | .0143 | .00001 |
| %RSD | .56659 | .97961 | .63314 | 68.752 | .90779 | 216.06 | 69.134 | .17734 | .24727 |
| #1 | 94.199 | .00240 | .26135 | .00168 | 344.33 | .00040 | .00045 | 8.0881 | .00492 |
| #2 | 94.957 | .00243 | .26370 | .00058 | 348.78 | -.00191 | .00132 | 8.0678 | .00494 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1617** | **-.00029** | **.00514** | **-.00093** | **-.02833** | **.00017** | **.00806** | **.00534** |
| Stddev | .0019 | .00071 | .00034 | .00088 | .02857 | .00003 | .00068 | .00015 |
| %RSD | .15961 | 243.59 | 6.5661 | 94.643 | 100.86 | 20.728 | 8.4241 | 2.7740 |
| #1 | 1.1604 | .00021 | .00538 | -.00031 | -.04853 | .00014 | .00854 | .00544 |
| #2 | 1.1630 | -.00079 | .00490 | -.00156 | -.00813 | .00019 | .00758 | .00523 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5766.4** | **75561.** | **4344.6** |
| Stddev | 45.7 | 487. | 25.9 |
| %RSD | .79273 | .64465 | .59582 |
| #1 | 5798.7 | 75217. | 4326.2 |
| #2 | 5734.1 | 75906. | 4362.9 |

Sample Name: 280-41656-4-7-c Acquired: 5/17/2013 8:48:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172866

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00263** | **.73243** | **.01774** | **.25116** | **.02723** | **-.00020** | **-.00541** | W **533.46** | **.00028** |
| Stddev | .00015 | .00251 | .00180 | .00070 | .00047 | .00003 | .00022 | 3.46 | .00000 |
| %RSD | 5.5969 | .34336 | 10.159 | .27872 | 1.7385 | 14.374 | 3.9994 | .64923 | .12409 |
| #1 | .00252 | .73421 | .01902 | .25066 | .02756 | -.00022 | -.00526 | 531.02 | .00028 |
| #2 | .00273 | .73066 | .01647 | .25165 | .02689 | -.00018 | -.00557 | 535.91 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01510** | **.00214** | **.00162** | **15.639** | **3.9288** | **.01956** | **231.26** | **6.6402** | **.00056** |
| Stddev | .00016 | .00013 | .00013 | .149 | .0164 | .00110 | 1.62 | .0323 | .00057 |
| %RSD | 1.0517 | 6.0714 | 8.0485 | .95347 | .41756 | 5.6005 | .70010 | .48635 | 101.53 |
| #1 | .01499 | .00205 | .00171 | 15.745 | 3.9172 | .01878 | 232.40 | 6.6173 | .00016 |
| #2 | .01522 | .00223 | .00152 | 15.534 | 3.9404 | .02033 | 230.11 | 6.6630 | .00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **38.360** | **.01387** | **.16280** | **.00278** | **627.07** | **.00186** | **.00040** | **9.1292** | **.00375** |
| Stddev | .186 | .00090 | .00055 | .00174 | .24 | .00259 | .00068 | .0901 | .00008 |
| %RSD | .48445 | 6.5010 | .33670 | 62.426 | .03827 | 138.77 | 170.70 | .98721 | 2.0635 |
| #1 | 38.492 | .01451 | .16241 | .00156 | 626.90 | .00369 | .00088 | 9.1929 | .00380 |
| #2 | 38.229 | .01323 | .16319 | .00401 | 627.24 | .00003 | -.00008 | 9.0655 | .00369 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90547** | **.00555** | **.01592** | **-.00441** | W **-.07192** | **-.00010** | **.01159** | **.00700** |
| Stddev | .00916 | .00055 | .00056 | .00122 | .03711 | .00031 | .00044 | .00149 |
| %RSD | 1.0121 | 9.9308 | 3.5384 | 27.676 | 51.598 | 319.45 | 3.7972 | 21.319 |
| #1 | .91195 | .00594 | .01552 | -.00528 | -.09816 | -.00032 | .01128 | .00595 |
| #2 | .89899 | .00516 | .01632 | -.00355 | -.04568 | .00012 | .01191 | .00806 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5615.1** | **74082.** | **4377.4** |
| Stddev | 34.0 | 544. | 51.1 |
| %RSD | .60630 | .73475 | 1.1673 |
| #1 | 5591.0 | 73697. | 4341.3 |
| #2 | 5639.2 | 74467. | 4413.5 |

Sample Name: 280-41656-4-8-c Acquired: 5/17/2013 8:51:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172866

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00170** | **30.926** | **.02350** | **1.2642** | **.28615** | **.00177** | **-.00946** | **305.11** | **.00073** |
| Stddev | .00004 | .209 | .00134 | .0195 | .00203 | .00002 | .00155 | 1.24 | .00000 |
| %RSD | 2.3672 | .67702 | 5.7048 | 1.5396 | .70974 | 1.1601 | 16.392 | .40610 | .17847 |
| #1 | .00167 | 31.074 | .02445 | 1.2504 | .28758 | .00176 | -.01056 | 305.98 | .00073 |
| #2 | .00173 | 30.778 | .02255 | 1.2779 | .28471 | .00179 | -.00836 | 304.23 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03575** | **.05926** | **.05424** | **52.406** | **14.746** | **.12230** | **170.79** | **3.5161** | **.00383** |
| Stddev | .00035 | .00031 | .00026 | .221 | .052 | .00171 | .30 | .0252 | .00017 |
| %RSD | .97257 | .51814 | .47818 | .42170 | .35185 | 1.3994 | .17396 | .71698 | 4.3215 |
| #1 | .03551 | .05904 | .05443 | 52.562 | 14.783 | .12351 | 170.58 | 3.5339 | .00371 |
| #2 | .03600 | .05948 | .05406 | 52.250 | 14.709 | .12109 | 171.00 | 3.4983 | .00395 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **124.02** | **.09111** | **1.4883** | **.05065** | **350.74** | **-.00147** | **.00384** | **44.468** | **.00592** |
| Stddev | 1.90 | .00089 | .0197 | .00034 | 5.01 | .00158 | .00147 | .220 | .00082 |
| %RSD | 1.5324 | .97151 | 1.3210 | .66540 | 1.4274 | 107.24 | 38.263 | .49568 | 13.796 |
| #1 | 125.37 | .09048 | 1.4744 | .05089 | 347.20 | -.00036 | .00488 | 44.624 | .00650 |
| #2 | 122.68 | .09173 | 1.5022 | .05041 | 354.28 | -.00259 | .00280 | 44.313 | .00534 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1164** | **.03343** | **.39170** | **-.00383** | F **-.12080** | **.06262** | **.14262** | **.01423** |
| Stddev | .0084 | .00056 | .00181 | .00115 | .03509 | .00024 | .00142 | .00176 |
| %RSD | .39901 | 1.6630 | .46291 | 30.078 | 29.048 | .38750 | .99220 | 12.340 |
| #1 | 2.1224 | .03304 | .39298 | -.00464 | -.09599 | .06279 | .14362 | .01548 |
| #2 | 2.1105 | .03382 | .39042 | -.00301 | -.14562 | .06244 | .14162 | .01299 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5919.7** | **78078.** | **4578.4** |
| Stddev | 84.2 | 237. | 11.7 |
| %RSD | 1.4229 | .30316 | .25474 |
| #1 | 5979.3 | 77911. | 4570.2 |
| #2 | 5860.2 | 78245. | 4586.7 |

Sample Name: 41760-18 Acquired: 5/17/2013 8:53:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: DQR

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **.00035** | **.00393** | **.02065** | **.03059** | **.00003** | **.00409** | **33.519** | **-.00030** |
| Stddev | .00041 | .00011 | .00178 | .00055 | .00000 | .00007 | .00380 | .076 | .00013 |
| %RSD | 31.430 | 31.200 | 45.190 | 2.6869 | .00675 | 246.72 | 92.786 | .22565 | 42.530 |
| #1 | .00159 | .00027 | .00519 | .02025 | .03059 | .00008 | .00678 | 33.573 | -.00039 |
| #2 | .00101 | .00043 | .00268 | .02104 | .03059 | -.00002 | .00141 | 33.466 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00060** | **-.00029** | **.80057** | **1.3115** | **.02608** | **11.963** | **.03528** | **-.00024** |
| Stddev | .00002 | .00004 | .00018 | .00587 | .0326 | .00211 | .001 | .00028 | .00014 |
| %RSD | 5.1020 | 5.9620 | 60.203 | .73278 | 2.4841 | 8.0809 | .00429 | .79336 | 58.761 |
| #1 | .00032 | .00057 | -.00017 | .80472 | 1.3345 | .02757 | 11.963 | .03508 | -.00034 |
| #2 | .00035 | .00062 | -.00042 | .79642 | 1.2885 | .02459 | 11.962 | .03547 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.220** | **.00059** | **.01849** | **.00046** | **.40376** | **-.00101** | **.00051** | **4.8708** | **.00408** |
| Stddev | .065 | .00020 | .00203 | .00054 | .00684 | .00034 | .00047 | .0060 | .00035 |
| %RSD | .09466 | 32.860 | 10.961 | 118.81 | 1.6945 | 33.534 | 91.599 | .12403 | 8.6406 |
| #1 | 68.174 | .00073 | .01706 | .00084 | .40860 | -.00077 | .00018 | 4.8665 | .00433 |
| #2 | 68.265 | .00046 | .01993 | .00007 | .39892 | -.00125 | .00085 | 4.8750 | .00383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12991** | **.00151** | **.00020** | **.00127** | **-.04754** | **-.00127** | **.00299** | **.00504** |
| Stddev | .00079 | .00182 | .00054 | .00035 | .01253 | .00078 | .00004 | .00087 |
| %RSD | .60700 | 120.23 | 267.11 | 27.447 | 26.353 | 61.561 | 1.2585 | 17.237 |
| #1 | .12935 | .00280 | .00058 | .00151 | -.05640 | -.00072 | .00297 | .00443 |
| #2 | .13047 | .00023 | -.00018 | .00102 | -.03868 | -.00182 | .00302 | .00565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6358.2** | **81940.** | **4730.2** |
| Stddev | 10.0 | 144. | 12.0 |
| %RSD | .15760 | .17631 | .25314 |
| #1 | 6365.3 | 81838. | 4738.6 |
| #2 | 6351.1 | 82042. | 4721.7 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 8:56:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01260** | **47.441** | k **.00148** | **.00331** | k **-.00062** | k **-.00008** | k **1.0178** | k **-.00209** | k **-.00066** | k **.00210** | k **.00072** | k **.01046** |
| Stddev | .00063 | .050 | .00207 | .00049 | .00003 | .00010 | .0105 | .00306 | .00008 | .00015 | .00022 | .00023 |
| %RSD | 5.0066 | .10613 | 140.23 | 14.904 | 4.5219 | 126.14 | 1.0302 | 146.02 | 12.142 | 6.9046 | 31.029 | 2.2280 |
| #1 | k .01215 | 47.476 | k .00001 | .00366 | k -.00060 | k -.00001 | k 1.0253 | k .00007 | k -.00060 | k .00200 | k .00056 | k .01029 |
| #2 | k .01304 | 47.405 | k .00295 | .00296 | k -.00064 | k -.00016 | k 1.0104 | k -.00426 | k -.00072 | k .00221 | k .00087 | k .01062 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.662** | **.53561** | k **-.00333** | k **-.20272** | **.00050** | **-.00219** | F **281.83** | **.00133** | **.00459** | k **.00642** | **5.5746** | k **-.02338** |
| Stddev | .169 | .02865 | .00220 | .00187 | .00006 | .00018 | 1.76 | .00024 | .00128 | .00068 | .0635 | .00091 |
| %RSD | .37761 | 5.3490 | 65.929 | .92149 | 11.076 | 8.0020 | .62537 | 17.724 | 27.934 | 10.639 | 1.1388 | 3.8970 |
| #1 | k 44.543 | .51536 | k -.00178 | k -.20140 | .00054 | -.00231 | 283.08 | .00116 | .00550 | k .00690 | 5.6195 | k -.02274 |
| #2 | k 44.781 | .55587 | k -.00488 | k -.20404 | .00047 | -.00206 | 280.59 | .00150 | .00368 | k .00593 | 5.5297 | k -.02402 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01316** | k **.02384** | k **.00383** | **.00053** | kF **5.5189** | k **.01581** | k **-.00534** | k **10.424** | k **-.00008** | k **.00284** | k **.21314** |
| Stddev | .00064 | .00784 | .00104 | .00003 | .0190 | .00067 | .00071 | .039 | .00025 | .00008 | .00024 |
| %RSD | 4.8833 | 32.893 | 27.084 | 5.7921 | .34473 | 4.2555 | 13.292 | .37577 | 324.66 | 2.8540 | .11165 |
| #1 | k -.01362 | k .01830 | k .00310 | .00055 | k 5.5054 | k .01533 | k -.00484 | k 10.452 | k .00010 | k .00278 | k .21297 |
| #2 | k -.01271 | k .02939 | k .00457 | .00051 | k 5.5323 | k .01629 | k -.00584 | k 10.397 | k -.00025 | k .00289 | k .21330 |
| Check ? | None | None | None | None | Chk Fail | None | None | Chk Pass | None | None | None |
| Value | | | | | 5.0000 | | | | | | |
| Range | | | | | 10.000% | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6008.6** | **77288.** | **4534.5** |
| Stddev | 18.2 | 63. | 26.5 |
| %RSD | .30333 | .08105 | .58364 |
| #1 | 6021.5 | 77332. | 4515.7 |
| #2 | 5995.8 | 77244. | 4553.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 8:58:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51229** | **.50595** | **1.0416** | **.53737** | **.53861** | **.47756** | **.00272** | **4.8558** | **.51823** | **.52616** | **.51564** | **.51021** |
| Stddev | .00429 | .00462 | .0079 | .00370 | .00034 | .00161 | .00005 | .0090 | .00452 | .00412 | .00477 | .00536 |
| %RSD | .83713 | .91263 | .75486 | .68866 | .06257 | .33618 | 1.7391 | .18497 | .87219 | .78252 | .92585 | 1.0512 |
| #1 | .51532 | .50268 | 1.0361 | .53475 | .53885 | .47869 | .00276 | 4.8495 | .51504 | .52325 | .51226 | .51400 |
| #2 | .50925 | .50921 | 1.0472 | .53998 | .53837 | .47642 | .00269 | 4.8622 | .52143 | .52907 | .51901 | .50642 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1911** | F **55.882** | F **1.1163** | **19.935** | **.51036** | **.51147** | F **5.5946** | **.52186** | **1.0491** | **1.0409** | **.12747** | **1.0513** |
| Stddev | .0007 | .227 | .0025 | .093 | .00249 | .00147 | .0268 | .00109 | .0037 | .0055 | .00065 | .0054 |
| %RSD | .03131 | .40616 | .22784 | .46893 | .48867 | .28673 | .47826 | .20798 | .35276 | .52337 | .50956 | .51285 |
| #1 | 2.1916 | 56.042 | 1.1181 | 20.001 | .51212 | .51044 | 5.6135 | .52109 | 1.0465 | 1.0370 | .12793 | 1.0475 |
| #2 | 2.1906 | 55.721 | 1.1145 | 19.869 | .50860 | .51251 | 5.5757 | .52262 | 1.0517 | 1.0447 | .12701 | 1.0551 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0652** | **4.5215** | **1.0187** | **.53856** | **.00249** | **.50799** | **1.0208** | **-.03260** | **.50392** | **.49012** | **.49789** |
| Stddev | .0027 | .0106 | .0036 | .00166 | .00006 | .00301 | .0022 | .03199 | .00413 | .00107 | .00088 |
| %RSD | .25253 | .23343 | .34816 | .30744 | 2.3445 | .59224 | .21472 | 98.144 | .81917 | .21827 | .17606 |
| #1 | 1.0633 | 4.5141 | 1.0162 | .53973 | .00253 | .51012 | 1.0193 | -.00998 | .50684 | .49088 | .49727 |
| #2 | 1.0671 | 4.5290 | 1.0212 | .53739 | .00245 | .50586 | 1.0224 | -.05522 | .50100 | .48937 | .49851 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6219.4** | **80106.** | **4597.8** |
| Stddev | 24.6 | 76. | 15.1 |
| %RSD | .39600 | .09543 | .32821 |
| #1 | 6236.8 | 80052. | 4587.1 |
| #2 | 6202.0 | 80160. | 4608.5 |

Sample Name: CCB Acquired: 5/17/2013 9:00:42 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00193** | **.00112** | W **.00657** | **.00097** | F **-.00159** | **-.00008** | **.00215** | **.01465** | **-.00004** | **.00039** | **.00030** |
| Stddev | .00036 | .00141 | .00059 | .00014 | .00016 | .00009 | .00257 | .00218 | .00000 | .00031 | .00003 |
| %RSD | 18.825 | 125.57 | 8.9405 | 14.331 | 9.8117 | 104.83 | 119.87 | 14.893 | 12.226 | 78.765 | 10.201 |
| | | | | | | | | | | | |
| #1 | .00219 | .00212 | .00615 | .00107 | -.00148 | -.00002 | .00397 | .01311 | -.00004 | .00061 | .00032 |
| #2 | .00167 | .00013 | .00699 | .00088 | -.00170 | -.00014 | .00033 | .01620 | -.00004 | .00017 | .00028 |
| | | | | | | | | | | | |
| Check ? | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00180 | | .00440 | | .00115 | | | | | | |
| Low Limit | -.00180 | | -.00440 | | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **-.00485** | F **.35409** | W **-.00335** | F **.28810** | F **.06527** | **-.00022** | F **.26736** | **.00035** | **-.00044** | **-.00003** |
| Stddev | .00050 | .00041 | .00740 | .00005 | .01660 | .00413 | .00005 | .01580 | .00020 | .00052 | .00027 |
| %RSD | 152.64 | 8.3562 | 2.0896 | 1.5901 | 5.7631 | 6.3331 | 23.110 | 5.9088 | 55.683 | 117.34 | 1008.1 |
| | | | | | | | | | | | |
| #1 | -.00069 | -.00456 | .35932 | -.00338 | .29984 | .06819 | -.00026 | .27853 | .00049 | -.00081 | .00016 |
| #2 | .00003 | -.00514 | .34886 | -.00331 | .27636 | .06234 | -.00018 | .25619 | .00021 | -.00008 | -.00022 |
| | | | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | .00261 | .02140 | .00051 | | .10000 | | | |
| Low Limit | | | -.25000 | -.00261 | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13125** | **-.00127** | **.00167** | **-.00514** | W **.00767** | **.00018** | **.00409** | **.00040** | **-.00040** | **-.04965** | **-.00084** |
| Stddev | .03632 | .00096 | .00074 | .00112 | .00669 | .00007 | .00219 | .00017 | .00104 | .00374 | .00006 |
| %RSD | 27.673 | 75.583 | 44.552 | 21.712 | 87.198 | 39.531 | 53.422 | 42.240 | 262.01 | 7.5294 | 6.5285 |
| | | | | | | | | | | | |
| #1 | .15694 | -.00059 | .00219 | -.00435 | .01240 | .00023 | .00255 | .00052 | .00034 | -.04701 | -.00088 |
| #2 | .10557 | -.00195 | .00114 | -.00593 | .00294 | .00013 | .00564 | .00028 | -.00113 | -.05230 | -.00081 |
| | | | | | | | | | | | |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00583 | | | | | | |
| Low Limit | | | | | -.00583 | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00410** | W **.00339** |
| Stddev | .00028 | .00047 |
| %RSD | 6.7819 | 13.804 |
| | | |
| #1 | .00390 | .00306 |
| #2 | .00430 | .00372 |
| | | |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6395.4** | **80947.** | **4656.5** |
| Stddev | 3.6 | 167. | 21.2 |
| %RSD | .05555 | .20634 | .45623 |
| | | | |
| #1 | 6397.9 | 80829. | 4671.5 |
| #2 | 6392.9 | 81065. | 4641.5 |

Sample Name: CCVL2055043 Acquired: 5/17/2013 9:03:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01275** | **.10631** | W **.01935** | **.11229** | **.00934** | **.00080** | **.11445** | **.19776** | **.00539** | **.01145** | **.01110** |
| Stddev | .00032 | .00048 | .00297 | .00027 | .00031 | .00005 | .00325 | .00396 | .00005 | .00010 | .00003 |
| %RSD | 2.4904 | .45462 | 15.347 | .23769 | 3.2903 | 6.6479 | 2.8383 | 2.0047 | .86324 | .91365 | .31063 |
| #1 | .01298 | .10665 | .02145 | .11210 | .00913 | .00076 | .11674 | .20057 | .00535 | .01152 | .01113 |
| #2 | .01253 | .10597 | .01725 | .11248 | .00956 | .00084 | .11215 | .19496 | .00542 | .01138 | .01108 |
| Check ? | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | | .01500 | | | | | | | | |
| Range | 20.000% | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01456** | **.08400** | W **3.7441** | **.00925** | **.21263** | **.01099** | **.02037** | F **1.3195** | **.04422** | **3.2243** | **.00990** |
| Stddev | .00026 | .00131 | .0141 | .00030 | .00186 | .00003 | .00016 | .0097 | .00006 | .0101 | .00065 |
| %RSD | 1.7674 | 1.5571 | .37805 | 3.2907 | .87648 | .24474 | .76901 | .73268 | .12643 | .31334 | 6.5869 |
| #1 | .01474 | .08493 | 3.7341 | .00904 | .21131 | .01097 | .02026 | 1.3263 | .04426 | 3.2315 | .00944 |
| #2 | .01438 | .08308 | 3.7541 | .00947 | .21395 | .01101 | .02048 | 1.3126 | .04418 | 3.2172 | .01037 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | | | 1.0000 | | | |
| Range | | | 20.000% | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09307** | **.01034** | **.01701** | **.45882** | **.10851** | **.01100** | **.01686** | **.01008** | **.01621** | F **.02861** | **.00871** |
| Stddev | .00039 | .00097 | .00114 | .01761 | .00105 | .00006 | .00001 | .00010 | .00032 | .01163 | .00056 |
| %RSD | .42410 | 9.3839 | 6.7227 | 3.8373 | .96621 | .51018 | .07452 | 1.0372 | 1.9610 | 40.656 | 6.4011 |
| #1 | .09279 | .01102 | .01782 | .44637 | .10925 | .01096 | .01685 | .01001 | .01644 | .02038 | .00910 |
| #2 | .09335 | .00965 | .01620 | .47127 | .10777 | .01104 | .01687 | .01016 | .01599 | .03683 | .00832 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02280** | W **.01846** |
| Stddev | .00000 | .00012 |
| %RSD | .00281 | .67153 |
| #1 | .02280 | .01855 |
| #2 | .02280 | .01837 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6340.8** | **83153.** | **4755.9** |
| Stddev | 1.4 | 148. | 46.6 |
| %RSD | .02244 | .17746 | .98055 |
| #1 | 6341.8 | 83257. | 4788.9 |
| #2 | 6339.8 | 83049. | 4722.9 |

# *ICP Data Review Checklist*

| | | |
|---|---|---|
| **TALS BATCH NUMBER:** 174753, 174754, 174757, 174758 | | **Earliest due date:** 5/14/13 |
| **Run Date:** 5/16/13 | **Analyst:** HEB | **Instrument:** 26 |
| **QC programs/Methods Run:** 200.7, 6010B, 6010C, DODV4.1, A4, SAR | | |

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < 1/2 RL or CRDL (CLP) or < 2.2x MDL 200.7 ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | ✓ | | | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | ✓ | | | ✓ |
| 5. Serial dilution done per prep batch (or per SDG for CLP)? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP, DOD & AFCEE only)? NCM Whether needed for DODV3, AFCEE 4.0, 6010c? | ✓ | | | ✓ |
| **B. Calibration/Instrument Run QC** | | | | |
| 1. ICV/CCV analyzed at appropriate frequency and within control limits ? (**6010B**: CLP = 90 - 110%; **200.7:** ICV = 95 - 105%, CCV 90-110%) If not in control, was the ICV or CCV reanalyzed twice to show return to control as per NELAP? | ✓ | | | ✓ |
| 2. ICB/CCB analyzed at appropriate frequency and <1/2RL or < 2X MDL ( DOD V3,AFCEE 4.0)? Was it less than the MDLV (6010C) | ✓ | | | ✓ |
| 3. High Standard (HIGH) reanalyzed before samples and recovered within QC limits? (+-5%) | ✓ | | | ✓ |
| 4. RL STD run and recovered within QC limits ? (± 50% for non-CLP, ± 20% for DoD V3 / AFCEE 4.0 / USACE) | ✓ | | | ✓ |
| 5. Was the LLICV/LLCCV analyzed at appropriate frequency for 6010C and within control (+-30 % or +-20%) | ✓ | | | ✓ |
| 6. ICSA/ICSAB run at required frequency and within SOP limits? (ICSA < 2X MDL AFCEE 4.0, DOD V3 or <RL std work or <MDLV 6010C)) | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. For 6010B, were samples with concentrations > the linear range for any parameter diluted and reanalyzed? For 200.7, were samples with concentrations within 90% of the linear range diluted and reanalyzed? | ✓ | | | ✓ |
| 2. Are all reported results bracketed by in control QC? | ✓ | | | ✓ |
| **D. Other** | | | | |
| 1. Are all nonconformances documented appropriately? | ✓ | | | ✓ |
| 2. Calculations checked for errors? | ✓ | | | ✓ |
| 3. Transcriptions checked for errors? (Example: Are dilution factors that are entered into the sequence log correct?) | ✓ | | | ✓ |
| 4. All client/project specific requirements met? | ✓ | | | ✓ |
| 5. Date/time of analysis verified as correct? | ✓ | | | ✓ |
| 6. PDF attached, verified uncorrupted? | ✓ | | | ✓ |

**Analyst:** Heidi Bowen **Date:** 5/17/13

**Comments:**

**2nd Level Reviewer:** James Cole **Date:** 5/17/13

**Comments:**

Sample Name: ICIS Acquired: 5/17/2013 9:36:23 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00280** | **.00035** | **-.03222** | **-.00071** | **.00165** | **.02275** | **.00087** | **-.00143** | **.00946** | **.00102** | **-.00069** | **-.00146** |
| Stddev | .00001 | .00008 | .00022 | .00016 | .00003 | .00134 | .00008 | .00046 | .00019 | .00002 | .00026 | .00042 |
| %RSD | .28560 | 22.267 | .68003 | 21.838 | 1.8498 | 5.8976 | 9.1620 | 32.331 | 2.0416 | 1.5518 | 37.296 | 29.132 |
| #1 | -.00280 | .00029 | -.03237 | -.00060 | .00163 | .02370 | .00082 | -.00176 | .00960 | .00101 | -.00087 | -.00116 |
| #2 | -.00279 | .00040 | -.03207 | -.00082 | .00167 | .02180 | .00093 | -.00111 | .00933 | .00103 | -.00051 | -.00176 |

| Elem | Cu3247 | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00216** | **.00066** | **.00181** | **.02807** | **.00907** | **-.00002** | **-.00016** | **.00004** | **.04899** | **-.01159** | **-.00160** | **-.00017** |
| Stddev | .00012 | .00019 | .00023 | .00192 | .00182 | .00002 | .00008 | .00004 | .00031 | .00221 | .00012 | .00001 |
| %RSD | 5.4159 | 28.057 | 12.797 | 6.8418 | 20.119 | 122.28 | 48.357 | 112.18 | .63351 | 19.079 | 7.5171 | 5.0643 |
| #1 | .00224 | .00079 | .00198 | .02943 | .01036 | -.00004 | -.00011 | .00001 | .04921 | -.01315 | -.00152 | -.00017 |
| #2 | .00208 | .00053 | .00165 | .02671 | .00778 | -.00000 | -.00022 | .00006 | .04877 | -.01003 | -.00169 | -.00016 |

| Elem | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00164** | **.00194** | **-.00068** | **-.00010** | **.00151** | **.00010** | **.00011** | **-.00004** | **-.00039** | **-.00076** | **.00044** | **.00038** |
| Stddev | .00034 | .00014 | .00005 | .00011 | .00064 | .00007 | .00166 | .00020 | .00016 | .00005 | .00001 | .00010 |
| %RSD | 20.584 | 7.3815 | 7.6808 | 108.00 | 42.480 | 66.597 | 1539.6 | 458.70 | 40.618 | 6.6342 | 1.4180 | 26.864 |
| #1 | .00188 | .00184 | -.00071 | -.00002 | .00196 | .00015 | .00128 | .00010 | -.00028 | -.00079 | .00044 | .00031 |
| #2 | .00140 | .00204 | -.00064 | -.00018 | .00106 | .00005 | -.00107 | -.00018 | -.00050 | -.00072 | .00045 | .00045 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **-.00001** | **-.00353** |
| Stddev | .00000 | .00046 |
| %RSD | 7.1066 | 13.137 |
| #1 | -.00001 | -.00386 |
| #2 | -.00000 | -.00320 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5061.9** | **63958.** | **3412.6** |
| Stddev | 1.0 | 316. | 22.5 |
| %RSD | .01971 | .49475 | .65994 |
| #1 | 5062.6 | 63735. | 3396.7 |
| #2 | 5061.2 | 64182. | 3428.6 |

Sample Name: IC1 Acquired: 5/17/2013 9:38:54 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.22649** | **.28078** | **.14338** | **.35283** | **4.5661** | **7.4482** | **2.0665** | **1.7429** | **.95736** | **1.2069** | **.29765** | **.67006** | **6.6281** |
| Stddev | .00005 | .00045 | .00022 | .00058 | .0045 | .0023 | .0006 | .0012 | .00116 | .0005 | .00012 | .00149 | .0267 |
| %RSD | .02257 | .15958 | .15328 | .16498 | .09828 | .03070 | .02665 | .06579 | .12066 | .04185 | .03984 | .22274 | .40351 |
| #1 | .22653 | .28110 | .14354 | .35324 | 4.5629 | 7.4498 | 2.0661 | 1.7437 | .95818 | 1.2073 | .29774 | .67111 | 6.6470 |
| #2 | .22646 | .28047 | .14323 | .35242 | 4.5693 | 7.4466 | 2.0669 | 1.7420 | .95655 | 1.2066 | .29757 | .66900 | 6.6092 |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2.9382** | **.84021** | **1.1316** | **.63606** | **2.1914** | **.81254** | **.12306** | **.50439** | **.23591** | **.12026** | **.40762** | **.31772** | **8.9577** |
| Stddev | .0041 | .00089 | .0002 | .00014 | .0022 | .00092 | .00030 | .00002 | .00068 | .00018 | .00006 | .00019 | .0014 |
| %RSD | .13963 | .10624 | .01857 | .02182 | .10052 | .11383 | .24224 | .00436 | .28856 | .15105 | .01545 | .06089 | .01611 |
| #1 | 2.9411 | .84084 | 1.1315 | .63615 | 2.1899 | .81319 | .12285 | .50438 | .23639 | .12039 | .40758 | .31758 | 8.9587 |
| #2 | 2.9353 | .83958 | 1.1318 | .63596 | 2.1930 | .81188 | .12327 | .50441 | .23543 | .12013 | .40767 | .31786 | 8.9566 |

| Elem | Ti3349 | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.31390** | **.23777** | **.20628** | **.04003** | **.36148** |
| Stddev | .00062 | .00074 | .00020 | .00002 | .00080 |
| %RSD | .19613 | .30918 | .09844 | .04548 | .22266 |
| #1 | .31347 | .23829 | .20642 | .04002 | .36205 |
| #2 | .31434 | .23725 | .20614 | .04005 | .36091 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4970.7** | **62975.** | **3415.4** |
| Stddev | 10.7 | 192. | 3.0 |
| %RSD | .21542 | .30414 | .08643 |
| #1 | 4963.2 | 62840. | 3417.5 |
| #2 | 4978.3 | 63110. | 3413.3 |

Sample Name: IC2 Acquired: 5/17/2013 9:41:09 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5.2012** | **.25236** | **.56813** | **3.4093** | **.41417** | **.46792** | **.09384** |
| Stddev | .0205 | .00130 | .00184 | .0112 | .00147 | .00161 | .00048 |
| %RSD | .39347 | .51693 | .32335 | .32901 | .35582 | .34421 | .50731 |
| | | | | | | | |
| #1 | 5.2157 | .25328 | .56683 | 3.4173 | .41521 | .46678 | .09350 |
| #2 | 5.1868 | .25144 | .56942 | 3.4014 | .41312 | .46906 | .09417 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4995.8** | **63404.** | **3464.2** |
| Stddev | 32.3 | 60. | 25.4 |
| %RSD | .64752 | .09512 | .73254 |
| | | | |
| #1 | 4973.0 | 63362. | 3446.3 |
| #2 | 5018.7 | 63447. | 3482.2 |

Sample Name: S1-2048691 Acquired: 5/17/2013 9:43:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99972** | **.99290** | **1.9870** | **1.0001** | **.99360** | **.99433** | **-.00038** | **9.9390** | **.99589** | **.99720** | **.99447** | **.99622** | **4.9679** |
| Stddev | .00135 | .00250 | .0067 | .0004 | .00658 | .00677 | .00188 | .0581 | .00017 | .00051 | .00194 | .00111 | .0224 |
| %RSD | .13503 | .25185 | .33964 | .03868 | .66192 | .68069 | 497.86 | .58417 | .01690 | .05087 | .19497 | .11099 | .45094 |
| #1 | .99876 | .99467 | 1.9918 | 1.0003 | .98895 | .98954 | -.00170 | 9.8979 | .99601 | .99756 | .99584 | .99700 | 4.9520 |
| #2 | 1.0007 | .99113 | 1.9822 | .99978 | .99825 | .99911 | .00095 | 9.9800 | .99577 | .99684 | .99310 | .99544 | 4.9837 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **99.446** | **1.9925** | **39.665** | **.99627** | **.99345** | **10.040** | **10.259** | **.99464** | **1.9924** | **1.9875** | **.00323** | **2.0043** | **2.0083** |
| Stddev | .313 | .0090 | .020 | .00103 | .00123 | .045 | .192 | .00143 | .0028 | .0035 | .00561 | .0030 | .0057 |
| %RSD | .31431 | .44996 | .05078 | .10349 | .12359 | .44773 | 1.8764 | .14400 | .14045 | .17680 | 173.82 | .15021 | .28190 |
| #1 | 99.225 | 1.9862 | 39.679 | .99555 | .99432 | 10.008 | 10.395 | .99565 | 1.9943 | 1.9900 | -.00074 | 2.0065 | 2.0043 |
| #2 | 99.667 | 1.9989 | 39.651 | .99700 | .99258 | 10.072 | 10.122 | .99363 | 1.9904 | 1.9850 | .00720 | 2.0022 | 2.0123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.8711** | **1.9955** | **.99663** | **.00698** | **.99852** | **1.9953** | **.01304** | **.99365** | **.99369** | **.99334** |
| Stddev | .0458 | .0055 | .00561 | .00017 | .00139 | .0017 | .02388 | .00052 | .00396 | .00091 |
| %RSD | .46385 | .27421 | .56319 | 2.4431 | .13881 | .08616 | 183.16 | .05211 | .39873 | .09209 |
| #1 | 9.8387 | 1.9994 | .99266 | .00686 | .99754 | 1.9965 | -.00385 | .99402 | .99649 | .99270 |
| #2 | 9.9034 | 1.9917 | 1.0006 | .00710 | .99950 | 1.9940 | .02992 | .99329 | .99089 | .99399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5135.7** | **64669.** | **3529.9** |
| Stddev | 11.2 | 242. | 27.0 |
| %RSD | .21770 | .37358 | .76479 |
| #1 | 5127.8 | 64498. | 3549.0 |
| #2 | 5143.6 | 64840. | 3510.8 |

Sample Name: S2-2048692 Acquired: 5/17/2013 9:45:51 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00155** | **100.67** | **-.00174** | **.00333** | **.00058** | **.00019** | **2.0028** | **.02889** | **-.00113** | **.00408** | **.00010** | **.00291** | **100.56** |
| Stddev | .00072 | .26 | .00115 | .00037 | .00004 | .00013 | .0031 | .00336 | .00013 | .00021 | .00006 | .00038 | .37 |
| %RSD | 46.147 | .26246 | 65.827 | 11.079 | 6.7780 | 72.556 | .15312 | 11.629 | 11.877 | 5.2106 | 57.032 | 13.039 | .36688 |
| #1 | .00105 | 100.49 | -.00093 | .00359 | .00061 | .00028 | 2.0049 | .02652 | -.00103 | .00393 | .00006 | .00264 | 100.83 |
| #2 | .00206 | 100.86 | -.00255 | .00307 | .00055 | .00009 | 2.0006 | .03127 | -.00122 | .00423 | .00014 | .00318 | 100.30 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28873** | **.00521** | **.03173** | **.00062** | **-.00280** | **501.87** | **.00330** | **.01221** | **.00190** | **10.054** | **.00552** | **.01335** | **.02163** |
| Stddev | .05394 | .00270 | .00021 | .00002 | .00005 | .51 | .00010 | .00283 | .00167 | .007 | .00451 | .00053 | .03428 |
| %RSD | 18.683 | 51.720 | .65677 | 3.9669 | 1.8170 | .10196 | 3.0840 | 23.145 | 87.928 | .06744 | 81.652 | 3.9791 | 158.44 |
| #1 | .32688 | .00712 | .03188 | .00064 | -.00284 | 502.23 | .00337 | .01421 | .00308 | 10.049 | .00871 | .01297 | .04587 |
| #2 | .25059 | .00331 | .03159 | .00061 | -.00277 | 501.51 | .00322 | .01021 | .00072 | 10.058 | .00233 | .01372 | -.00260 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00166** | **.00111** | **9.9943** | **.00486** | **-.00046** | **20.076** | **.00025** | **.00592** | **-.07021** |
| Stddev | .00010 | .00019 | .0016 | .00011 | .00170 | .106 | .00028 | .00023 | .00310 |
| %RSD | 5.9818 | 17.483 | .01639 | 2.2574 | 368.90 | .52584 | 111.87 | 3.9183 | 4.4090 |
| #1 | .00159 | .00125 | 9.9931 | .00479 | -.00166 | 20.151 | .00005 | .00576 | -.06802 |
| #2 | .00173 | .00097 | 9.9954 | .00494 | .00074 | 20.001 | .00044 | .00609 | -.07239 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5121.7** | **64381.** | **3546.2** |
| Stddev | 5.9 | 91. | 7.6 |
| %RSD | .11582 | .14062 | .21388 |
| #1 | 5117.5 | 64317. | 3540.9 |
| #2 | 5125.9 | 64445. | 3551.6 |

Sample Name: ICVH-2050069 Acquired: 5/17/2013 9:48:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **39.560** | **.00004** | **.00097** | **.00230** | **-.00017** | **.50283** | **-.01049** | **-.00024** | **.00152** | **.00023** | **.00018** | **78.628** |
| Stddev | .00014 | .177 | .00050 | .00005 | .00007 | .00004 | .00493 | .00174 | .00023 | .00009 | .00001 | .00012 | .314 |
| %RSD | 97.874 | .44752 | 1216.5 | 4.6410 | 3.1111 | 20.617 | .97948 | 16.588 | 93.514 | 5.9438 | 4.7181 | 65.417 | .39972 |
| #1 | -.00004 | 39.685 | -.00031 | .00100 | .00235 | -.00020 | .50631 | -.00926 | -.00040 | .00158 | .00022 | .00027 | 78.405 |
| #2 | -.00024 | 39.435 | .00039 | .00094 | .00225 | -.00015 | .49935 | -.01172 | -.00008 | .00145 | .00024 | .00010 | 78.850 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01520** | **.00004** | **-.00946** | **.00065** | **-.00104** | **40.297** | **.00177** | **.00336** | **-.00000** | **3.8124** | **.00061** | **.00600** | **.02131** |
| Stddev | .03263 | .00055 | .00262 | .00001 | .00028 | .195 | .00056 | .00194 | .00092 | .0045 | .00318 | .00019 | .01617 |
| %RSD | 214.61 | 1469.8 | 27.645 | 1.9365 | 26.515 | .48472 | 31.330 | 57.583 | 22261. | .11708 | 520.11 | 3.1854 | 75.882 |
| #1 | -.00787 | .00043 | -.00761 | .00066 | -.00124 | 40.159 | .00217 | .00199 | .00064 | 3.8092 | .00286 | .00587 | .03274 |
| #2 | .03827 | -.00035 | -.01131 | .00064 | -.00085 | 40.435 | .00138 | .00473 | -.00065 | 3.8156 | -.00164 | .00614 | .00988 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **-.00007** | **2.9404** | **.00127** | **.00036** | **4.9269** | **.00181** | **.00369** | **-.02370** |
| Stddev | .00043 | .00014 | .0048 | .00029 | .00001 | .0612 | .00063 | .00026 | .00091 |
| %RSD | 114.32 | 203.92 | .16198 | 23.061 | 1.7582 | 1.2419 | 34.961 | 7.0668 | 3.8284 |
| #1 | -.00007 | -.00016 | 2.9370 | .00148 | .00037 | 4.9701 | .00225 | .00350 | -.02306 |
| #2 | -.00067 | .00003 | 2.9438 | .00107 | .00036 | 4.8836 | .00136 | .00387 | -.02434 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5157.5** | **64974.** | **3604.5** |
| Stddev | 13.5 | 78. | 8.8 |
| %RSD | .26256 | .12029 | .24526 |
| #1 | 5147.9 | 65029. | 3598.2 |
| #2 | 5167.1 | 64919. | 3610.7 |

Sample Name: ICV-2050070 Acquired: 5/17/2013 9:51:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25089** | **.24210** | F **.23665** | **.24774** | **.24604** | F **.23377** | **.00340** | **1.9723** | **.24620** | **.24668** | **.24314** | **.23785** |
| Stddev | .00079 | .00117 | .00083 | .00036 | .00002 | .00108 | .00118 | .0032 | .00083 | .00076 | .00086 | .00038 |
| %RSD | .31436 | .48266 | .35013 | .14613 | .00874 | .46118 | 34.681 | .15970 | .33871 | .30858 | .35387 | .15867 |
| #1 | .25144 | .24293 | .23724 | .24749 | .24603 | .23453 | .00424 | 1.9701 | .24561 | .24615 | .24253 | .23758 |
| #2 | .25033 | .24128 | .23607 | .24800 | .24606 | .23301 | .00257 | 1.9746 | .24679 | .24722 | .24375 | .23812 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .25000 | | | .25000 | | | | | | |
| Range | | | -5.0000% | | | -5.0000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24231** | **19.737** | **.25053** | **9.7074** | **.24566** | **.23852** | **1.9443** | **.24520** | **1.9267** | **.24447** | **-.01600** | **.24828** |
| Stddev | .00654 | .150 | .00200 | .0028 | .00011 | .00045 | .0066 | .00004 | .0058 | .00120 | .00130 | .00272 |
| %RSD | 2.6982 | .76136 | .79963 | .02911 | .04609 | .18811 | .33695 | .01528 | .30073 | .48935 | 8.1346 | 1.0960 |
| #1 | .24693 | 19.843 | .25195 | 9.7054 | .24574 | .23883 | 1.9489 | .24517 | 1.9226 | .24362 | -.01692 | .25020 |
| #2 | .23768 | 19.630 | .24911 | 9.7094 | .24558 | .23820 | 1.9396 | .24522 | 1.9308 | .24531 | -.01508 | .24636 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48994** | **1.9749** | **.47803** | **.24653** | **.00346** | **.24052** | **.48791** | **-.00511** | **.23983** | **.24622** | **.23750** |
| Stddev | .00087 | .0102 | .00250 | .00066 | .00006 | .00090 | .00219 | .00944 | .00058 | .00088 | .00284 |
| %RSD | .17660 | .51862 | .52261 | .26891 | 1.7010 | .37511 | .44834 | 184.60 | .24186 | .35878 | 1.1963 |
| #1 | .49055 | 1.9821 | .47626 | .24700 | .00341 | .23989 | .48636 | -.01179 | .24024 | .24684 | .23951 |
| #2 | .48933 | 1.9676 | .47980 | .24606 | .00350 | .24116 | .48946 | .00156 | .23942 | .24559 | .23549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5185.1** | **65523.** | **3551.5** |
| Stddev | 4.9 | 192. | 31.4 |
| %RSD | .09473 | .29270 | .88354 |
| #1 | 5188.6 | 65387. | 3529.3 |
| #2 | 5181.7 | 65658. | 3573.6 |

Sample Name: ICVL2057887 Acquired: 5/17/2013 9:54:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01081** | **.09796** | **.01416** | **.10171** | **.00942** | **.00101** | **.10762** | **.19651** | **.00484** | **.01036** | **.01005** |
| Stddev | .00043 | .00028 | .00027 | .00011 | .00062 | .00003 | .00370 | .00090 | .00004 | .00011 | .00023 |
| %RSD | 3.9590 | .28145 | 1.9217 | .10583 | 6.6210 | 2.5223 | 3.4359 | .45798 | .87704 | 1.0430 | 2.2577 |
| #1 | .01050 | .09776 | .01397 | .10178 | .00898 | .00100 | .11023 | .19715 | .00481 | .01028 | .01021 |
| #2 | .01111 | .09815 | .01435 | .10163 | .00987 | .00103 | .10500 | .19587 | .00487 | .01043 | .00989 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01373** | **.09941** | **2.9546** | **.01075** | **.19843** | **.00999** | **.01930** | **.97585** | **.04057** | **2.9447** | **.00979** |
| Stddev | .00019 | .00019 | .0521 | .00061 | .00496 | .00000 | .00015 | .01036 | .00016 | .0015 | .00098 |
| %RSD | 1.3995 | .19467 | 1.7637 | 5.6991 | 2.4990 | .00581 | .77660 | 1.0617 | .38499 | .05080 | 10.048 |
| #1 | .01360 | .09928 | 2.9914 | .01032 | .20193 | .01000 | .01941 | .98318 | .04046 | 2.9458 | .00909 |
| #2 | .01387 | .09955 | 2.9178 | .01119 | .19492 | .00999 | .01919 | .96852 | .04068 | 2.9436 | .01048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01494** | W **.01293** | **.01724** | **.49082** | **.09804** | **.00984** | **.01500** | **.00944** | **.01552** | F **.12560** | **.01011** |
| Stddev | .00015 | .00065 | .00078 | .01327 | .00146 | .00025 | .00023 | .00045 | .00072 | .02066 | .00042 |
| %RSD | .98982 | 5.0528 | 4.5243 | 2.7044 | 1.4843 | 2.5374 | 1.5369 | 4.8178 | 4.6151 | 16.452 | 4.1192 |
| #1 | -.01504 | .01247 | .01779 | .50020 | .09701 | .00967 | .01516 | .00976 | .01603 | .11099 | .01041 |
| #2 | -.01483 | .01339 | .01669 | .48143 | .09907 | .01002 | .01484 | .00912 | .01502 | .14021 | .00982 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02248** | **.01369** |
| Stddev | .00072 | .00152 |
| %RSD | 3.1865 | 11.126 |
| #1 | .02198 | .01477 |
| #2 | .02299 | .01261 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5239.6** | **65914.** | **3616.1** |
| Stddev | 23.2 | 737. | 5.6 |
| %RSD | .44346 | 1.1187 | .15570 |
| #1 | 5223.1 | 66436. | 3612.2 |
| #2 | 5256.0 | 65393. | 3620.1 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 9:56:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00043** | **50.661** | **-.00227** | **.00129** | **-.00044** | **-.00011** | **.99758** | **-.00178** | **-.00079** | **.00184** | **-.00001** | **.00002** | **50.354** |
| Stddev | .00136 | .073 | .00236 | .00019 | .00002 | .00004 | .00026 | .00177 | .00035 | .00007 | .00007 | .00080 | .187 |
| %RSD | 312.70 | .14449 | 104.16 | 14.812 | 5.3101 | 34.691 | .02647 | 99.244 | 43.749 | 3.9352 | 1018.7 | 3329.2 | .37209 |
| #1 | -.00139 | 50.609 | -.00060 | .00142 | -.00045 | -.00013 | .99739 | -.00053 | -.00104 | .00179 | .00004 | .00059 | 50.486 |
| #2 | .00053 | 50.712 | -.00394 | .00115 | -.00042 | -.00008 | .99777 | -.00303 | -.00055 | .00189 | -.00005 | -.00054 | 50.221 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00802** | **.00320** | **.00773** | **-.00002** | **-.00175** | **251.75** | **.00148** | **.00534** | **.00086** | **4.9342** | **.00250** | **.00887** | **.01250** |
| Stddev | .04672 | .00106 | .00021 | .00001 | .00002 | .44 | .00010 | .00136 | .00101 | .0213 | .00183 | .00112 | .00501 |
| %RSD | 582.64 | 33.249 | 2.7754 | 66.501 | 1.4201 | .17641 | 6.5341 | 25.391 | 117.07 | .43070 | 73.130 | 12.677 | 40.035 |
| #1 | -.02502 | .00245 | .00758 | -.00001 | -.00177 | 251.43 | .00155 | .00630 | .00015 | 4.9192 | .00121 | .00966 | .01604 |
| #2 | .04106 | .00395 | .00788 | -.00003 | -.00174 | 252.06 | .00142 | .00438 | .00158 | 4.9492 | .00379 | .00807 | .00896 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00081** | **.00029** | **5.0136** | **.00235** | **-.00184** | **9.9731** | **-.00005** | **.00258** | **-.04094** |
| Stddev | .00039 | .00004 | .0175 | .00074 | .00152 | .0781 | .00032 | .00091 | .00005 |
| %RSD | 48.484 | 14.828 | .34919 | 31.302 | 82.291 | .78332 | 625.64 | 35.512 | .11831 |
| #1 | -.00053 | .00026 | 5.0012 | .00183 | -.00077 | 9.9179 | -.00028 | .00193 | -.04097 |
| #2 | -.00109 | .00032 | 5.0260 | .00288 | -.00292 | 10.028 | .00018 | .00322 | -.04090 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5179.1** | **64412.** | **3496.8** |
| Stddev | 16.7 | 448. | 7.6 |
| %RSD | .32261 | .69605 | .21816 |
| #1 | 5167.3 | 64095. | 3491.4 |
| #2 | 5190.9 | 64729. | 3502.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 9:58:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49027** | **.47635** | **.95690** | **.49411** | **.48299** | **.47410** | **.00222** | **4.8324** | **.48818** | **.49490** | **.48158** | **.47950** | **2.3945** |
| Stddev | .00034 | .00123 | .00335 | .00280 | .00076 | .00016 | .00098 | .0037 | .00033 | .00176 | .00034 | .00038 | .0012 |
| %RSD | .06869 | .25766 | .35002 | .56567 | .15759 | .03311 | 44.184 | .07669 | .06854 | .35589 | .07047 | .07911 | .04869 |
| #1 | .49003 | .47549 | .95453 | .49213 | .48245 | .47399 | .00291 | 4.8350 | .48794 | .49615 | .48182 | .47923 | 2.3937 |
| #2 | .49051 | .47722 | .95926 | .49609 | .48353 | .47421 | .00152 | 4.8298 | .48842 | .49366 | .48134 | .47977 | 2.3953 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.144** | **.97463** | **19.306** | **.48750** | **.47446** | **4.7288** | **.48838** | **.97534** | **.97990** | **-.02076** | **.97343** | **.98964** | **4.8012** |
| Stddev | .228 | .00260 | .015 | .00060 | .00109 | .0013 | .00212 | .00376 | .00045 | .00332 | .00035 | .00286 | .0201 |
| %RSD | .47295 | .26641 | .07558 | .12223 | .23073 | .02645 | .43308 | .38556 | .04565 | 16.012 | .03631 | .28904 | .41808 |
| #1 | 47.983 | .97279 | 19.296 | .48708 | .47524 | 4.7297 | .48988 | .97800 | .97958 | -.02311 | .97368 | .99167 | 4.7870 |
| #2 | 48.305 | .97647 | 19.316 | .48792 | .47369 | 4.7279 | .48688 | .97268 | .98021 | -.01841 | .97318 | .98762 | 4.8154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94961** | **.48936** | **.00048** | **.48102** | **.95674** | **.01884** | **.47924** | **.48687** | **.47888** |
| Stddev | .00180 | .00114 | .00165 | .00100 | .00694 | .03532 | .00054 | .00013 | .00043 |
| %RSD | .18942 | .23249 | 344.62 | .20863 | .72576 | 187.42 | .11231 | .02649 | .09059 |
| #1 | .95088 | .48856 | .00164 | .48031 | .96165 | .04382 | .47962 | .48678 | .47858 |
| #2 | .94834 | .49017 | -.00069 | .48173 | .95183 | -.00613 | .47886 | .48696 | .47919 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5109.1** | **64287.** | **3611.9** |
| Stddev | 7.2 | 16. | 52.2 |
| %RSD | .14150 | .02510 | 1.4455 |
| #1 | 5104.0 | 64299. | 3648.9 |
| #2 | 5114.2 | 64276. | 3575.0 |

Sample Name: ICB Acquired: 5/17/2013 10:01:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00106** | **-.00079** | **.00072** | W **-.00073** | **-.00017** | **.00178** | **-.00305** | **.00009** | **.00002** | **-.00027** |
| Stddev | .00005 | .00012 | .00230 | .00020 | .00013 | .00013 | .00205 | .00079 | .00003 | .00004 | .00001 |
| %RSD | 19.773 | 11.390 | 290.24 | 27.110 | 18.243 | 75.878 | 114.95 | 25.759 | 32.826 | 207.64 | 3.1636 |
| #1 | .00028 | .00115 | .00083 | .00086 | -.00064 | -.00008 | .00323 | -.00360 | .00011 | .00004 | -.00026 |
| #2 | .00021 | .00098 | -.00242 | .00058 | -.00083 | -.00026 | .00033 | -.00249 | .00007 | -.00001 | -.00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **-.00118** | **-.01076** | **.00178** | **-.00070** | **-.00007** | **.00025** | **.00150** | **.00004** | **.00403** | **.00119** |
| Stddev | .00049 | .00061 | .02929 | .00095 | .00320 | .00002 | .00004 | .02088 | .00043 | .00275 | .00077 |
| %RSD | 83.428 | 51.856 | 272.15 | 53.367 | 459.99 | 23.285 | 16.247 | 1393.8 | 1206.4 | 68.283 | 64.891 |
| #1 | -.00024 | -.00161 | -.03147 | .00111 | .00157 | -.00006 | .00022 | -.01327 | .00034 | .00598 | .00174 |
| #2 | -.00094 | -.00075 | .00995 | .00245 | -.00296 | -.00008 | .00027 | .01626 | -.00027 | .00209 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02052** | **.00207** | **.00070** | **-.01191** | **-.00081** | **-.00020** | **.00201** | **-.00009** | **-.00157** | **.00161** | **.00025** |
| Stddev | .00439 | .00076 | .00302 | .01633 | .00007 | .00013 | .00435 | .00001 | .00142 | .04585 | .00071 |
| %RSD | 21.387 | 36.644 | 429.58 | 137.17 | 8.6293 | 63.646 | 216.68 | 14.116 | 90.183 | 2850.8 | 288.79 |
| #1 | -.01742 | .00260 | .00284 | -.00036 | -.00086 | -.00011 | .00509 | -.00010 | -.00257 | -.03081 | .00075 |
| #2 | -.02362 | .00153 | -.00143 | -.02346 | -.00076 | -.00030 | -.00107 | -.00008 | -.00057 | .03403 | -.00026 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00195** | W **.00238** |
| Stddev | .00042 | .00141 |
| %RSD | 21.483 | 59.267 |
| #1 | .00166 | .00338 |
| #2 | .00225 | .00138 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5105.1** | **63672.** | **3474.0** |
| Stddev | 4.6 | 199. | 20.3 |
| %RSD | .08989 | .31175 | .58366 |
| #1 | 5101.8 | 63531. | 3488.3 |
| #2 | 5108.3 | 63812. | 3459.6 |

Sample Name: CRI-2057888 Acquired: 5/17/2013 10:03:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01057** | **.10069** | W **.01279** | **.10119** | **.00451** | **.00089** | **.11191** | **.19587** | **.00506** | **.00530** | **.00989** |
| Stddev | .00031 | .00045 | .00258 | .00029 | .00023 | .00012 | .00260 | .00139 | .00019 | .00015 | .00001 |
| %RSD | 2.8861 | .44239 | 20.145 | .28672 | 5.0844 | 13.400 | 2.3189 | .70811 | 3.7268 | 2.9023 | .14252 |
| #1 | .01079 | .10037 | .01096 | .10099 | .00467 | .00081 | .11375 | .19489 | .00520 | .00541 | .00989 |
| #2 | .01036 | .10100 | .01461 | .10140 | .00435 | .00097 | .11008 | .19685 | .00493 | .00519 | .00988 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01000 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00956** | **.02870** | **1.0168** | **.01069** | **.20056** | **.00315** | **.00998** | **.94321** | **.01051** | **.97946** | W **.00238** |
| Stddev | .00089 | .00244 | .0221 | .00254 | .00141 | .00002 | .00044 | .01337 | .00001 | .00267 | .00095 |
| %RSD | 9.2853 | 8.4905 | 2.1769 | 23.721 | .70386 | .62121 | 4.4469 | 1.4170 | .10032 | .27253 | 40.118 |
| #1 | .01019 | .03042 | 1.0011 | .00890 | .19956 | .00317 | .00967 | .95266 | .01051 | .97757 | .00170 |
| #2 | .00893 | .02698 | 1.0324 | .01249 | .20156 | .00314 | .01030 | .93376 | .01052 | .98134 | .00306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | | | | .00300 |
| Range | | | | | | | | | | | -20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07315** | W **.01202** | W **.01223** | **.48854** | **.01951** | **.00506** | W **.01261** | **.01020** | **.01065** | **.07178** | **.01037** |
| Stddev | .00078 | .00103 | .00249 | .00371 | .00001 | .00008 | .00037 | .00076 | .00139 | .00234 | .00037 |
| %RSD | 1.0652 | 8.5372 | 20.330 | .75987 | .03916 | 1.5546 | 2.9015 | 7.4297 | 13.046 | 3.2561 | 3.5255 |
| #1 | .07260 | .01130 | .01399 | .48591 | .01951 | .00511 | .01235 | .01074 | .00967 | .07012 | .01011 |
| #2 | .07370 | .01275 | .01047 | .49116 | .01950 | .00500 | .01287 | .00967 | .01163 | .07343 | .01062 |
| Check ? | None | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | .01000 | | | | .01000 | | | | |
| Range | | 20.000% | 20.000% | | | | 20.000% | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.01265** | W **.01351** |
| Stddev | .00006 | .00005 |
| %RSD | .50864 | .35841 |
| #1 | .01260 | .01348 |
| #2 | .01269 | .01354 |
| Check ? | Chk Warn | Chk Warn |
| Value | .01000 | .01000 |
| Range | 20.000% | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5215.1** | **65080.** | **3555.2** |
| Stddev | 6.8 | 59. | 25.0 |
| %RSD | .13012 | .09044 | .70233 |
| #1 | 5219.9 | 65038. | 3537.6 |
| #2 | 5210.3 | 65121. | 3572.9 |

Sample Name: cri-2058380 Acquired: 5/17/2013 10:09:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **-.00007** | **.01718** | **-.00071** | **-.00041** | **-.00008** | **.00233** | **.00066** | **.00006** |
| Stddev | .00017 | .00036 | .00114 | .00012 | .00024 | .00019 | .00147 | .00341 | .00001 |
| %RSD | 38.892 | 556.54 | 6.6444 | 16.357 | 58.261 | 252.01 | 62.987 | 515.84 | 9.7949 |
| #1 | .00057 | .00019 | .01638 | -.00079 | -.00024 | .00006 | .00337 | .00307 | .00005 |
| #2 | .00032 | -.00032 | .01799 | -.00063 | -.00058 | -.00022 | .00129 | -.00175 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **-.00015** | **-.00037** | **-.00418** | **-.05950** | **-.00101** | **-.00061** | **-.00005** | **.00048** |
| Stddev | .00009 | .00017 | .00005 | .00176 | .07289 | .00149 | .00264 | .00002 | .00007 |
| %RSD | 255.43 | 118.90 | 13.998 | 42.079 | 122.50 | 148.18 | 435.63 | 39.982 | 15.584 |
| #1 | .00010 | -.00002 | -.00041 | -.00542 | -.11105 | -.00206 | .00126 | -.00006 | .00053 |
| #2 | -.00003 | -.00027 | -.00034 | -.00293 | -.00796 | .00005 | -.00247 | -.00004 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04566** | **-.00001** | **.00154** | **.01046** | **-.02405** | **.01855** | **.01792** | **.01403** | **.00016** |
| Stddev | .00683 | .00022 | .00036 | .00002 | .00104 | .00020 | .00130 | .00665 | .00027 |
| %RSD | 14.956 | 1579.0 | 23.214 | .15815 | 4.3403 | 1.0814 | 7.2378 | 47.424 | 169.65 |
| #1 | -.05049 | .00014 | .00129 | .01045 | -.02479 | .01870 | .01700 | .01874 | -.00003 |
| #2 | -.04083 | -.00017 | .00180 | .01047 | -.02331 | .01841 | .01883 | .00933 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **-.00005** | **-.00010** | **.00057** | **-.00074** | **.00025** | **.01944** | **.00189** |
| Stddev | .00008 | .00048 | .00020 | .00022 | .00999 | .00021 | .00004 | .00296 |
| %RSD | 27.349 | 905.70 | 200.96 | 39.646 | 1358.4 | 84.882 | .22910 | 156.47 |
| #1 | -.00024 | .00029 | -.00024 | .00072 | .00633 | .00010 | .01941 | .00398 |
| #2 | -.00035 | -.00039 | .00004 | .00041 | -.00780 | .00040 | .01947 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5126.7** | **64774.** | **3520.0** |
| Stddev | 22.1 | 24. | 16.7 |
| %RSD | .43156 | .03758 | .47307 |
| #1 | 5142.4 | 64757. | 3531.8 |
| #2 | 5111.1 | 64791. | 3508.3 |

Sample Name: ICSA-2050073 Acquired: 5/17/2013 10:15:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **503.08** | **-.00277** | **-.00028** | W **-.00066** | **-.00021** | **-.00589** | **461.87** | W **.00076** | **.00004** | F **.00191** |
| Stddev | .00014 | .90 | .00280 | .00029 | .00020 | .00013 | .00557 | 3.06 | .00012 | .00024 | .00016 |
| %RSD | 42.065 | .17823 | 100.99 | 102.66 | 31.001 | 63.949 | 94.640 | .66149 | 15.632 | 557.59 | 8.2077 |
| #1 | .00045 | 502.45 | -.00079 | -.00008 | -.00080 | -.00011 | -.00983 | 464.03 | .00084 | .00021 | .00202 |
| #2 | .00024 | 503.71 | -.00475 | -.00048 | -.00051 | -.00030 | -.00195 | 459.71 | .00068 | -.00012 | .00180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Fail |
| High Limit | | | | | .00058 | | | | .00045 | | .00123 |
| Low Limit | | | | | -.00058 | | | | -.00045 | | -.00132 |

| Elem | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00411** | **188.29** | W **.27688** | **.00054** | **493.77** | F **.00378** | **-.00126** | F **.18323** | W **.00242** | **.00177** | **.00174** |
| Stddev | .00057 | 1.25 | .14196 | .00069 | .51 | .00004 | .00014 | .06254 | .00008 | .00150 | .00033 |
| %RSD | 13.915 | .66138 | 51.272 | 128.04 | .10418 | 1.1341 | 11.223 | 34.134 | 3.2942 | 84.659 | 18.932 |
| #1 | .00451 | 189.17 | .17650 | .00102 | 494.13 | .00381 | -.00136 | .13900 | .00248 | .00071 | .00151 |
| #2 | .00370 | 187.41 | .37726 | .00005 | 493.40 | .00375 | -.00116 | .22745 | .00237 | .00283 | .00197 |
| Check ? | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass |
| High Limit | .00272 | | .23700 | | | .00051 | | .18320 | .00129 | | |
| Low Limit | -.00272 | | -.23700 | | | -.00051 | | -.18320 | -.00129 | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00394** | **.00221** | **.00390** | **-.00187** | **-.00149** | F **.00223** | F **.03319** | **-.00044** | **-.00134** | **.04689** | F **.00531** |
| Stddev | .00284 | .00039 | .00113 | .00051 | .00088 | .00008 | .00141 | .00015 | .00071 | .02066 | .00068 |
| %RSD | 72.139 | 17.833 | 29.104 | 27.428 | 59.364 | 3.5733 | 4.2421 | 33.521 | 52.746 | 44.062 | 12.876 |
| #1 | .00193 | .00193 | .00470 | -.00151 | -.00211 | .00229 | .03418 | -.00054 | -.00184 | .06150 | .00482 |
| #2 | .00594 | .00248 | .00309 | -.00224 | -.00086 | .00217 | .03219 | -.00033 | -.00084 | .03228 | .00579 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | None | Chk Fail |
| High Limit | | | | | | .00060 | .01000 | | | | .00222 |
| Low Limit | | | | | | -.00060 | -.01000 | | | | -.00222 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.00978** | **-.00195** |
| Stddev | .00050 | .00074 |
| %RSD | 5.0809 | 37.723 |
| #1 | .00943 | -.00247 |
| #2 | .01013 | -.00143 |
| Check ? | Chk Fail | Chk Pass |
| High Limit | .00906 | |
| Low Limit | -.00906 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4698.5** | **58236.** | **3429.9** |
| Stddev | 7.9 | 189. | 12.5 |
| %RSD | .16785 | .32425 | .36535 |
| #1 | 4692.9 | 58103. | 3438.7 |
| #2 | 4704.1 | 58370. | 3421.0 |

Sample Name: ICSAB-2050074 Acquired: 5/17/2013 10:18:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0919** | **502.10** | **1.9165** | **1.9833** | **.48562** | **.46206** | **1.0148** | **455.27** | **1.0215** | **.47526** | **.47858** | **.52812** | **188.20** | **49.919** |
| Stddev | .0001 | .47 | .0013 | .0022 | .00040 | .00111 | .0020 | .92 | .0010 | .00060 | .00084 | .00144 | .05 | .215 |
| %RSD | .01379 | .09456 | .06642 | .11300 | .08160 | .24105 | .19974 | .20275 | .09803 | .12549 | .17528 | .27327 | .02872 | .43141 |
| #1 | 1.0918 | 501.76 | 1.9156 | 1.9817 | .48590 | .46285 | 1.0162 | 454.62 | 1.0208 | .47484 | .47799 | .52914 | 188.24 | 49.767 |
| #2 | 1.0920 | 502.43 | 1.9174 | 1.9849 | .48534 | .46127 | 1.0133 | 455.92 | 1.0222 | .47569 | .47918 | .52710 | 188.16 | 50.071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0031** | **489.07** | **.49490** | **.92274** | **50.491** | **.91805** | **1.9385** | **.94724** | **1.0176** | **1.0002** | **4.9087** | **9.9455** | **8.9386** | **.97232** |
| Stddev | .0046 | 3.94 | .00012 | .00272 | .030 | .00038 | .0010 | .00187 | .0074 | .0004 | .0118 | .0063 | .0165 | .00040 |
| %RSD | .45420 | .80653 | .02455 | .29472 | .05928 | .04137 | .05169 | .19731 | .72941 | .03996 | .24124 | .06319 | .18415 | .04071 |
| #1 | .99986 | 486.28 | .49499 | .92082 | 50.512 | .91778 | 1.9392 | .94592 | 1.0229 | .99992 | 4.9004 | 9.9410 | 8.9270 | .97204 |
| #2 | 1.0063 | 491.86 | .49482 | .92466 | 50.470 | .91831 | 1.9378 | .94856 | 1.0124 | 1.0005 | 4.9171 | 9.9499 | 8.9503 | .97260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0840** | **.98350** | **8.7960** | **.07464** | **.49358** | **.94587** | **.91791** |
| Stddev | .0034 | .00048 | .0020 | .02102 | .00176 | .00171 | .00656 |
| %RSD | .16435 | .04848 | .02295 | 28.167 | .35743 | .18099 | .71448 |
| #1 | 2.0815 | .98384 | 8.7974 | .05978 | .49483 | .94708 | .92254 |
| #2 | 2.0864 | .98316 | 8.7945 | .08951 | .49233 | .94466 | .91327 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4659.2** | **57993.** | **3477.5** |
| Stddev | 8.2 | 87. | 4.7 |
| %RSD | .17653 | .15077 | .13413 |
| #1 | 4665.0 | 58055. | 3480.8 |
| #2 | 4653.4 | 57931. | 3474.2 |

Sample Name: LRA-2050194 Acquired: 5/17/2013 10:21:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0368** | **-.42021** | **9.2765** | **9.6404** | **11.833** | **.00221** | **.02519** | **.03098** | **1.9618** | **4.8447** | **9.4747** | **9.6894** | **497.85** |
| Stddev | .0024 | .00359 | .0190 | .0149 | .035 | .00004 | .00077 | .00274 | .0048 | .0084 | .0201 | .0286 | 1.61 |
| %RSD | .11694 | .85502 | .20487 | .15475 | .29421 | 1.7448 | 3.0712 | 8.8376 | .24300 | .17438 | .21169 | .29555 | .32246 |
| #1 | 2.0385 | -.41767 | 9.2630 | 9.6298 | 11.858 | .00224 | .02574 | .02904 | 1.9584 | 4.8387 | 9.4605 | 9.7097 | 498.98 |
| #2 | 2.0351 | -.42275 | 9.2899 | 9.6509 | 11.809 | .00219 | .02465 | .03292 | 1.9652 | 4.8507 | 9.4889 | 9.6692 | 496.71 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.35132** | **-.00142** | **-.08703** | **9.5327** | **9.2165** | **-.03763** | **9.5687** | **-.01462** | **9.8087** | **-.05028** | **.00804** | **4.8219** | **46.779** |
| Stddev | .00948 | .00063 | .00462 | .0004 | .0209 | .02214 | .0134 | .00100 | .0111 | .00777 | .00304 | .0082 | .209 |
| %RSD | 2.6992 | 44.311 | 5.3041 | .00457 | .22617 | 58.822 | .14019 | 6.8644 | .11325 | 15.459 | 37.752 | .17074 | .44591 |
| #1 | -.35802 | -.00186 | -.08377 | 9.5324 | 9.2018 | -.02198 | 9.5592 | -.01391 | 9.8008 | -.04478 | .01019 | 4.8161 | 46.632 |
| #2 | -.34461 | -.00097 | -.09030 | 9.5330 | 9.2313 | -.05328 | 9.5782 | -.01533 | 9.8165 | -.05577 | .00590 | 4.8277 | 46.927 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00688** | **10.058** | **.07256** | **9.5119** | **9.5550** | **.13208** | **9.4244** | **9.2414** | **-.00889** |
| Stddev | .00098 | .049 | .00081 | .0268 | .0136 | .02729 | .0440 | .0552 | .00235 |
| %RSD | 14.306 | .49146 | 1.1190 | .28159 | .14277 | 20.666 | .46705 | .59739 | 26.392 |
| #1 | .00619 | 10.023 | .07198 | 9.5309 | 9.5454 | .11278 | 9.4555 | 9.2805 | -.00723 |
| #2 | .00758 | 10.093 | .07313 | 9.4930 | 9.5647 | .15138 | 9.3933 | 9.2024 | -.01055 |
| Check ? | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5124.5** | **64165.** | **3474.3** |
| Stddev | 19.1 | 415. | 11.6 |
| %RSD | .37318 | .64729 | .33289 |
| #1 | 5138.1 | 63872. | 3466.1 |
| #2 | 5111.0 | 64459. | 3482.5 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 10:23:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **50.482** | **.00062** | **.01906** | **.00207** | **-.00008** | **.99300** | **.01921** | **-.00071** | **.00233** | **.00034** | **-.00030** | **50.194** |
| Stddev | .00104 | .185 | .00190 | .00211 | .00141 | .00021 | .00325 | .00905 | .00001 | .00006 | .00010 | .00057 | .158 |
| %RSD | 411.88 | .36625 | 305.74 | 11.079 | 68.040 | 265.97 | .32690 | 47.108 | 1.4442 | 2.6244 | 28.346 | 192.31 | .31460 |
| #1 | .00099 | 50.612 | .00197 | .02055 | .00307 | -.00023 | .99530 | .02561 | -.00070 | .00228 | .00040 | .00011 | 50.083 |
| #2 | -.00048 | 50.351 | -.00072 | .01756 | .00108 | .00007 | .99071 | .01281 | -.00071 | .00237 | .00027 | -.00071 | 50.306 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.13255** | **.00089** | **.03370** | **.00073** | **-.00015** | **249.50** | **.00238** | **.00495** | **.00022** | **4.9077** | **.00298** | **.00805** | **.06089** |
| Stddev | .09057 | .00043 | .00189 | .00024 | .00005 | 1.99 | .00061 | .00026 | .00017 | .0177 | .00059 | .00565 | .01807 |
| %RSD | 68.333 | 48.181 | 5.5981 | 32.916 | 35.897 | .79655 | 25.763 | 5.2750 | 76.599 | .36049 | 19.699 | 70.172 | 29.674 |
| #1 | -.06850 | .00059 | .03504 | .00090 | -.00011 | 250.90 | .00194 | .00477 | .00010 | 4.9202 | .00257 | .01205 | .07366 |
| #2 | -.19659 | .00120 | .03237 | .00056 | -.00019 | 248.09 | .00281 | .00514 | .00035 | 4.8952 | .00340 | .00406 | .04811 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.00203** | **5.0551** | **.00443** | **.00038** | **10.022** | **.00132** | **.00358** | **-.04536** |
| Stddev | .00017 | .00057 | .0132 | .00004 | .00046 | .007 | .00030 | .00061 | .00200 |
| %RSD | 133.89 | 28.202 | .26127 | .98230 | 122.41 | .06615 | 22.917 | 17.164 | 4.4036 |
| #1 | -.00001 | .00243 | 5.0645 | .00446 | .00005 | 10.017 | .00110 | .00402 | -.04395 |
| #2 | -.00025 | .00162 | 5.0458 | .00440 | .00070 | 10.026 | .00153 | .00315 | -.04677 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5140.1** | **64161.** | **3562.7** |
| Stddev | 13.0 | 427. | 29.5 |
| %RSD | .25259 | .66483 | .82771 |
| #1 | 5130.9 | 63859. | 3541.9 |
| #2 | 5149.3 | 64462. | 3583.6 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 10:26:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49830** | **.49125** | **.95124** | **.51040** | **.48371** | **.46949** | **.00384** | **4.8444** | **.49175** | **.49730** | **.47780** | **.47663** | **2.4188** |
| Stddev | .00017 | .00278 | .00802 | .00034 | .00244 | .00148 | .00177 | .0202 | .00067 | .00216 | .00075 | .00106 | .0034 |
| %RSD | .03404 | .56490 | .84325 | .06591 | .50396 | .31512 | 45.944 | .41667 | .13539 | .43466 | .15737 | .22315 | .14165 |
| #1 | .49842 | .49321 | .94557 | .51017 | .48198 | .46844 | .00260 | 4.8301 | .49127 | .49883 | .47727 | .47738 | 2.4164 |
| #2 | .49818 | .48929 | .95691 | .51064 | .48543 | .47053 | .00509 | 4.8586 | .49222 | .49577 | .47834 | .47588 | 2.4212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.222** | **.97395** | **19.175** | **.48873** | **.47000** | **4.6221** | **.48663** | **.98058** | **.98786** | **-.01881** | **.98286** | **.99669** | **4.7777** |
| Stddev | .401 | .00694 | .015 | .00080 | .00137 | .0153 | .00099 | .00127 | .00197 | .00403 | .00077 | .00240 | .0379 |
| %RSD | .83105 | .71260 | .07894 | .16401 | .29237 | .33158 | .20280 | .12941 | .19925 | 21.427 | .07847 | .24035 | .79332 |
| #1 | 47.938 | .96904 | 19.186 | .48816 | .47097 | 4.6113 | .48733 | .97968 | .98925 | -.01596 | .98232 | .99838 | 4.7509 |
| #2 | 48.505 | .97886 | 19.165 | .48930 | .46903 | 4.6330 | .48593 | .98147 | .98647 | -.02166 | .98341 | .99499 | 4.8045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94557** | **.49361** | **.00248** | **.48373** | **.96229** | **.03871** | **.47550** | **.48344** | **.47866** |
| Stddev | .00014 | .00277 | .00167 | .00016 | .00049 | .01758 | .00106 | .00136 | .00189 |
| %RSD | .01521 | .56033 | 67.459 | .03350 | .05065 | 45.419 | .22193 | .28089 | .39464 |
| #1 | .94547 | .49166 | .00130 | .48385 | .96195 | .02628 | .47624 | .48248 | .48000 |
| #2 | .94567 | .49557 | .00366 | .48362 | .96264 | .05114 | .47475 | .48440 | .47733 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5188.9** | **64983.** | **3604.3** |
| Stddev | 3.8 | 56. | 26.0 |
| %RSD | .07400 | .08582 | .72267 |
| #1 | 5191.6 | 65022. | 3622.7 |
| #2 | 5186.2 | 64943. | 3585.9 |

Sample Name: CCB Acquired: 5/17/2013 10:28:26 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.01124** | **.00069** | F **.00860** | **-.00016** | **-.00005** | **.00389** | **.00904** | **.00015** | **.00018** | **.00020** |
| Stddev | .00007 | .00090 | .00153 | .00102 | .00093 | .00001 | .00273 | .00301 | .00014 | .00005 | .00013 |
| %RSD | 13.218 | 7.9859 | 222.13 | 11.850 | 584.19 | 20.538 | 70.144 | 33.275 | 93.083 | 30.955 | 64.692 |
| #1 | .00056 | .01061 | -.00039 | .00933 | -.00081 | -.00005 | .00581 | .00691 | .00025 | .00014 | .00011 |
| #2 | .00047 | .01188 | .00177 | .00788 | .00050 | -.00004 | .00196 | .01117 | .00005 | .00022 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **.01178** | **-.11648** | **-.00155** | **.01038** | **.00020** | **.00071** | **-.06850** | **.00043** | **.00157** | **.00016** |
| Stddev | .00046 | .00196 | .02845 | .00214 | .00688 | .00002 | .00004 | .00730 | .00013 | .00044 | .00103 |
| %RSD | 92.357 | 16.646 | 24.421 | 137.80 | 66.253 | 12.050 | 5.0116 | 10.657 | 31.082 | 27.998 | 654.11 |
| #1 | -.00017 | .01039 | -.09636 | -.00306 | .01524 | .00022 | .00074 | -.06334 | .00053 | .00188 | -.00057 |
| #2 | -.00083 | .01317 | -.13659 | -.00004 | .00552 | .00018 | .00069 | -.07366 | .00034 | .00126 | .00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01789** | **.00169** | **.00441** | **.00923** | **-.00055** | **.00005** | **.00097** | **.00008** | **-.00027** | **.04362** | **.00027** |
| Stddev | .00340 | .00133 | .00039 | .03734 | .00037 | .00004 | .00070 | .00025 | .00010 | .02269 | .00047 |
| %RSD | 19.020 | 78.707 | 8.8525 | 404.59 | 66.587 | 85.273 | 71.723 | 318.78 | 36.193 | 52.029 | 172.60 |
| #1 | -.01548 | .00075 | .00469 | -.01718 | -.00081 | .00008 | .00048 | -.00010 | -.00034 | .05967 | -.00006 |
| #2 | -.02029 | .00263 | .00414 | .03563 | -.00029 | .00002 | .00147 | .00025 | -.00020 | .02757 | .00060 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00226** | W **.00320** |
| Stddev | .00006 | .00148 |
| %RSD | 2.5465 | 46.183 |
| #1 | .00230 | .00425 |
| #2 | .00222 | .00216 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5216.6** | **65742.** | **3621.5** |
| Stddev | 31.1 | 51. | 10.1 |
| %RSD | .59599 | .07726 | .27885 |
| #1 | 5194.6 | 65778. | 3628.6 |
| #2 | 5238.6 | 65706. | 3614.4 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 10:30:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01131** | **.09888** | **.01513** | **.10816** | **.00973** | **.00086** | **.10516** | **.20173** | **.00489** | **.01030** | **.00990** |
| Stddev | .00067 | .00002 | .00347 | .00072 | .00011 | .00014 | .00227 | .00431 | .00021 | .00025 | .00008 |
| %RSD | 5.9167 | .02038 | 22.957 | .66686 | 1.1815 | 16.192 | 2.1553 | 2.1369 | 4.2557 | 2.3803 | .76060 |
| #1 | .01178 | .09886 | .01759 | .10867 | .00981 | .00076 | .10355 | .19868 | .00474 | .01048 | .00995 |
| #2 | .01084 | .09889 | .01267 | .10765 | .00965 | .00095 | .10676 | .20477 | .00503 | .01013 | .00985 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01348** | **.10538** | **2.7596** | W **.00786** | **.19993** | **.01002** | **.01879** | **.86450** | **.04014** | **2.9580** | **.00856** |
| Stddev | .00062 | .00012 | .0368 | .00086 | .00086 | .00002 | .00037 | .01236 | .00016 | .0163 | .00116 |
| %RSD | 4.6274 | .11442 | 1.3329 | 10.985 | .42768 | .22154 | 1.9904 | 1.4303 | .38706 | .54980 | 13.519 |
| #1 | .01392 | .10546 | 2.7336 | .00847 | .20053 | .01001 | .01905 | .87325 | .04025 | 2.9695 | .00938 |
| #2 | .01304 | .10529 | 2.7856 | .00725 | .19932 | .01004 | .01852 | .85576 | .04003 | 2.9465 | .00774 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02312** | W **.01252** | **.01704** | **.47622** | **.09511** | **.01002** | **.01587** | **.00988** | **.01668** | F **.10489** | **.00949** |
| Stddev | .00138 | .00128 | .00094 | .00365 | .00041 | .00004 | .00108 | .00033 | .00111 | .04118 | .00049 |
| %RSD | 5.9815 | 10.241 | 5.5351 | .76724 | .42921 | .42530 | 6.7900 | 3.3860 | 6.6842 | 39.258 | 5.2073 |
| #1 | -.02214 | .01343 | .01770 | .47880 | .09540 | .01005 | .01511 | .01012 | .01589 | .13401 | .00984 |
| #2 | -.02410 | .01162 | .01637 | .47363 | .09482 | .00999 | .01663 | .00964 | .01747 | .07577 | .00914 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02242** | **.01513** |
| Stddev | .00030 | .00169 |
| %RSD | 1.3344 | 11.165 |
| #1 | .02263 | .01393 |
| #2 | .02220 | .01632 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5375.0** | **67288.** | **3645.1** |
| Stddev | 17.8 | 337. | 10.6 |
| %RSD | .33076 | .50033 | .28989 |
| #1 | 5362.4 | 67050. | 3637.7 |
| #2 | 5387.6 | 67526. | 3652.6 |

Sample Name: MB 280-174436/1-A Acquired: 5/17/2013 10:33:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00828** | **.00153** | **.00498** | **-.00026** | **.00005** | **-.00053** | **.03964** | **-.00015** |
| Stddev | .00029 | .00030 | .00040 | .00017 | .00049 | .00007 | .00079 | .00043 | .00015 |
| %RSD | 101.42 | 3.5857 | 25.874 | 3.4440 | 188.25 | 132.96 | 149.25 | 1.0883 | 101.15 |
| #1 | .00049 | .00849 | .00181 | .00486 | -.00061 | .00011 | -.00108 | .03995 | -.00004 |
| #2 | .00008 | .00807 | .00125 | .00510 | .00009 | .00000 | .00003 | .03934 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **-.00000** | **-.00005** | **.01968** | **-.21104** | **-.00081** | **.01043** | **.00059** | **.00064** |
| Stddev | .00003 | .00007 | .00038 | .00006 | .02563 | .00092 | .00175 | .00005 | .00039 |
| %RSD | 46.298 | 8560.1 | 711.24 | .29568 | 12.146 | 112.80 | 16.729 | 8.0916 | 60.792 |
| #1 | -.00009 | -.00005 | -.00033 | .01973 | -.22917 | -.00016 | .01167 | .00056 | .00091 |
| #2 | -.00004 | .00005 | .00022 | .01964 | -.19292 | -.00146 | .00920 | .00063 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11115** | **.00018** | F **.06089** | **-.00032** | **-.00156** | **.00182** | **.00236** | **.02717** | **.00539** |
| Stddev | .00009 | .00040 | .00070 | .00107 | .00018 | .00000 | .00463 | .01655 | .00019 |
| %RSD | .08340 | 224.26 | 1.1479 | 333.44 | 11.449 | .25271 | 196.38 | 60.914 | 3.5104 |
| #1 | .11109 | -.00011 | .06040 | -.00108 | -.00168 | .00182 | .00564 | .03887 | .00552 |
| #2 | .11122 | .00046 | .06139 | .00044 | -.00143 | .00181 | -.00092 | .01547 | .00526 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00048** | **.00057** | **-.00062** | **.02590** | **-.00014** | **.00276** | **.00194** |
| Stddev | .00017 | .00027 | .00008 | .00058 | .01684 | .00029 | .00034 | .00278 |
| %RSD | 155.84 | 55.641 | 14.046 | 93.778 | 65.038 | 206.69 | 12.221 | 143.52 |
| #1 | -.00001 | .00029 | .00051 | -.00021 | .03781 | .00006 | .00252 | -.00003 |
| #2 | .00023 | .00067 | .00062 | -.00103 | .01399 | -.00034 | .00300 | .00390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5344.8** | **68077.** | **3760.9** |
| Stddev | 16.2 | 164. | 3.5 |
| %RSD | .30282 | .24163 | .09377 |
| #1 | 5333.4 | 68193. | 3758.4 |
| #2 | 5356.3 | 67961. | 3763.4 |

Sample Name: LCS 280-174436/2-A Acquired: 5/17/2013 10:35:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05121** | **1.8433** | **.93087** | **.96946** | **1.9076** | **.04676** | **1.9444** | **45.954** | **.09793** |
| Stddev | .00081 | .0075 | .00126 | .00115 | .0018 | .00018 | .0010 | .066 | .00042 |
| %RSD | 1.5833 | .40613 | .13581 | .11856 | .09217 | .39283 | .04963 | .14296 | .43366 |
| #1 | .05179 | 1.8486 | .92997 | .97028 | 1.9064 | .04663 | 1.9437 | 45.908 | .09823 |
| #2 | .05064 | 1.8380 | .93176 | .96865 | 1.9089 | .04689 | 1.9450 | 46.001 | .09763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47761** | **.18663** | **.23624** | **.93167** | **46.816** | **.93919** | **46.352** | **.47284** | **.91492** |
| Stddev | .00209 | .00069 | .00051 | .00291 | .034 | .00168 | .046 | .00098 | .00198 |
| %RSD | .43739 | .37028 | .21390 | .31239 | .07262 | .17904 | .09876 | .20674 | .21597 |
| #1 | .47909 | .18712 | .23588 | .92961 | 46.792 | .93800 | 46.319 | .47215 | .91631 |
| #2 | .47614 | .18615 | .23659 | .93373 | 46.840 | .94038 | 46.384 | .47353 | .91352 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.255** | **.46424** | **9.8094** | **.47501** | **-.00083** | **.47735** | **1.9314** | **1.4015** | **1.8252** |
| Stddev | .205 | .00267 | .0091 | .00201 | .00053 | .00233 | .0018 | .0030 | .0061 |
| %RSD | .41700 | .57435 | .09262 | .42291 | 63.482 | .48832 | .09356 | .21666 | .33610 |
| #1 | 49.400 | .46612 | 9.8158 | .47643 | -.00046 | .47900 | 1.9301 | 1.3993 | 1.8295 |
| #2 | 49.109 | .46235 | 9.8029 | .47359 | -.00121 | .47570 | 1.9327 | 1.4036 | 1.8208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95882** | **.98293** | **.94694** | **1.8649** | **2.0013** | **.46957** | **.46143** | **.45642** |
| Stddev | .00048 | .00285 | .00224 | .0066 | .0615 | .00064 | .00031 | .00085 |
| %RSD | .04974 | .29045 | .23610 | .35682 | 3.0740 | .13605 | .06808 | .18706 |
| #1 | .95916 | .98091 | .94536 | 1.8696 | 1.9578 | .46911 | .46120 | .45703 |
| #2 | .95849 | .98495 | .94852 | 1.8602 | 2.0448 | .47002 | .46165 | .45582 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5204.1** | **66132.** | **3723.0** |
| Stddev | 36.0 | 231. | 6.0 |
| %RSD | .69270 | .34958 | .16122 |
| #1 | 5178.6 | 66296. | 3718.7 |
| #2 | 5229.6 | 65969. | 3727.2 |

Sample Name: 280-42238-A-1-A Acquired: 5/17/2013 10:38:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **38.323** | **.01561** | **.00275** | **.45030** | **.00002** | **.02011** | **55.913** | **.00141** |
| Stddev | .00076 | .234 | .00012 | .00048 | .00314 | .00002 | .00056 | .499 | .00007 |
| %RSD | 125.61 | .61060 | .73728 | 17.581 | .69754 | 131.94 | 2.7839 | .89248 | 5.1906 |
| #1 | .00114 | 38.488 | .01569 | .00310 | .45252 | .00003 | .02051 | 56.265 | .00146 |
| #2 | .00007 | 38.157 | .01553 | .00241 | .44808 | .00000 | .01971 | 55.560 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10905** | **.02955** | **.15205** | **280.00** | **5.0038** | **.02369** | **43.659** | **3.0916** | **.00190** |
| Stddev | .00027 | .00025 | .00035 | 2.02 | .0673 | .00149 | .020 | .0037 | .00054 |
| %RSD | .25149 | .83247 | .23282 | .72125 | 1.3447 | 6.2771 | .04587 | .12042 | 28.350 |
| #1 | .10925 | .02937 | .15180 | 281.43 | 5.0514 | .02264 | 43.645 | 3.0890 | .00228 |
| #2 | .10886 | .02972 | .15230 | 278.57 | 4.9562 | .02474 | 43.673 | 3.0943 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4460** | **.06702** | **14.711** | **.01957** | **1.0574** | **.00777** | **.00196** | **.99116** | **.01677** |
| Stddev | .0370 | .00034 | .004 | .00327 | .0084 | .00031 | .00200 | .02863 | .00097 |
| %RSD | 1.5126 | .51023 | .02815 | 16.735 | .79456 | 4.0169 | 102.04 | 2.8883 | 5.7560 |
| #1 | 2.4721 | .06726 | 14.708 | .01725 | 1.0515 | .00799 | .00054 | 1.0114 | .01609 |
| #2 | 2.4198 | .06678 | 14.714 | .02188 | 1.0634 | .00755 | .00337 | .97092 | .01745 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17770** | **.06378** | W **22.346** | **-.00855** | W **-.06625** | **.66682** | **.46162** | **.27517** |
| Stddev | .00165 | .00186 | .041 | .00005 | .02833 | .00061 | .00182 | .00190 |
| %RSD | .92797 | 2.9227 | .18407 | .57968 | 42.766 | .09185 | .39415 | .69163 |
| #1 | .17886 | .06246 | 22.317 | -.00859 | -.08629 | .66639 | .46034 | .27382 |
| #2 | .17653 | .06510 | 22.375 | -.00852 | -.04622 | .66725 | .46291 | .27651 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6285.3** | **79290.** | **4473.4** |
| Stddev | 13.9 | 32. | 53.4 |
| %RSD | .22162 | .04026 | 1.1939 |
| #1 | 6275.5 | 79267. | 4435.6 |
| #2 | 6295.2 | 79312. | 4511.2 |

Sample Name: sd 280-42238-A-1-A@5 Acquired: 5/17/2013 10:40:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **8.8744** | **.00507** | **.00237** | **.10329** | **-.00005** | **.00883** | **13.030** | **.00023** |
| Stddev | .00044 | .0427 | .00203 | .00056 | .00054 | .00006 | .00026 | .016 | .00009 |
| %RSD | 53.701 | .48150 | 40.122 | 23.616 | .52503 | 122.51 | 2.9709 | .12655 | 37.515 |
| #1 | .00051 | 8.9047 | .00651 | .00277 | .10291 | -.00009 | .00902 | 13.041 | .00017 |
| #2 | .00113 | 8.8442 | .00363 | .00198 | .10367 | -.00001 | .00864 | 13.018 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02587** | **.00691** | **.03366** | **65.544** | **.96693** | **.00535** | **10.174** | **.72349** | **.00071** |
| Stddev | .00026 | .00025 | .00057 | .063 | .03287 | .00079 | .007 | .00095 | .00025 |
| %RSD | 1.0185 | 3.6155 | 1.6815 | .09538 | 3.3997 | 14.710 | .06901 | .13187 | 35.195 |
| #1 | .02606 | .00674 | .03326 | 65.588 | .99018 | .00591 | 10.179 | .72416 | .00053 |
| #2 | .02569 | .00709 | .03406 | 65.499 | .94369 | .00479 | 10.169 | .72281 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45167** | **.01592** | **3.4274** | **.00626** | **.22250** | **.00104** | **.00199** | **.22645** | **.00289** |
| Stddev | .00153 | .00014 | .0029 | .00107 | .00106 | .00088 | .00060 | .00009 | .00051 |
| %RSD | .33795 | .90648 | .08456 | 17.170 | .47650 | 85.108 | 30.056 | .04090 | 17.608 |
| #1 | .45059 | .01602 | 3.4253 | .00702 | .22325 | .00166 | .00242 | .22639 | .00253 |
| #2 | .45275 | .01582 | 3.4294 | .00550 | .22175 | .00041 | .00157 | .22652 | .00324 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04157** | **.01552** | **5.1734** | **-.00151** | **-.02162** | **.15511** | **.11178** | **.06473** |
| Stddev | .00006 | .00034 | .0024 | .00025 | .02855 | .00024 | .00075 | .00310 |
| %RSD | .14102 | 2.2112 | .04658 | 16.748 | 132.04 | .15650 | .66941 | 4.7908 |
| #1 | .04153 | .01527 | 5.1751 | -.00169 | -.00143 | .15528 | .11125 | .06254 |
| #2 | .04161 | .01576 | 5.1717 | -.00133 | -.04181 | .15494 | .11231 | .06692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5617.1** | **70463.** | **3970.1** |
| Stddev | 6.4 | 267. | 1.6 |
| %RSD | .11361 | .37924 | .04141 |
| #1 | 5621.6 | 70274. | 3969.0 |
| #2 | 5612.6 | 70652. | 3971.3 |

Sample Name: 280-42238-A-1-B DU  Acquired: 5/17/2013 10:42:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **39.363** | **.01329** | **.00082** | **.46260** | **.00009** | **.01368** | **48.204** | **.00118** |
| Stddev | .00021 | .235 | .00262 | .00010 | .00011 | .00011 | .00957 | .167 | .00004 |
| %RSD | 17.827 | .59801 | 19.729 | 11.951 | .02349 | 120.70 | 69.931 | .34557 | 3.2262 |
| #1 | .00103 | 39.530 | .01144 | .00088 | .46268 | .00017 | .02045 | 48.322 | .00116 |
| #2 | .00133 | 39.197 | .01515 | .00075 | .46252 | .00001 | .00692 | 48.086 | .00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09290** | **.02448** | **.14550** | **234.95** | **4.6077** | **.02246** | **37.324** | **3.2080** | **.00154** |
| Stddev | .00048 | .00014 | .00001 | .72 | .0266 | .00008 | .028 | .0025 | .00008 |
| %RSD | .51388 | .56768 | .01022 | .30485 | .57769 | .36728 | .07514 | .07761 | 5.4179 |
| #1 | .09256 | .02457 | .14549 | 235.46 | 4.6265 | .02240 | 37.344 | 3.2098 | .00159 |
| #2 | .09324 | .02438 | .14551 | 234.45 | 4.5889 | .02251 | 37.304 | 3.2063 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0880** | **.07688** | **11.462** | **.01879** | **.83248** | **.00787** | **.00510** | **.98116** | **.01810** |
| Stddev | .0291 | .00049 | .004 | .00135 | .00350 | .00211 | .00180 | .00391 | .00072 |
| %RSD | .94316 | .64298 | .03822 | 7.1948 | .42077 | 26.864 | 35.247 | .39800 | 3.9875 |
| #1 | 3.1086 | .07723 | 11.465 | .01783 | .83496 | .00936 | .00637 | .98392 | .01861 |
| #2 | 3.0674 | .07653 | 11.459 | .01975 | .83001 | .00637 | .00383 | .97840 | .01759 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17245** | **.05335** | W **20.187** | **-.00727** | W **-.06406** | **.56410** | **.38245** | **.24987** |
| Stddev | .00041 | .00168 | .432 | .00075 | .02339 | .00090 | .00023 | .00216 |
| %RSD | .23809 | 3.1480 | 2.1419 | 10.275 | 36.520 | .15972 | .06058 | .86597 |
| #1 | .17274 | .05217 | 20.493 | -.00674 | -.04752 | .56346 | .38229 | .25140 |
| #2 | .17216 | .05454 | 19.881 | -.00780 | -.08060 | .56473 | .38262 | .24834 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6168.2** | **77081.** | **4365.2** |
| Stddev | 20.5 | 321. | 17.7 |
| %RSD | .33196 | .41611 | .40529 |
| #1 | 6182.7 | 76854. | 4352.7 |
| #2 | 6153.7 | 77307. | 4377.7 |

Sample Name: 280-42238-A-1-C MS  Acquired: 5/17/2013 10:45:20  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04285** | **53.891** | **.77457** | **.79025** | **2.0972** | **.03861** | **1.6275** | **112.98** | **.08338** |
| Stddev | .00018 | .212 | .00401 | .00031 | .0079 | .00021 | .0062 | .38 | .00009 |
| %RSD | .42467 | .39290 | .51773 | .03933 | .37665 | .55655 | .37944 | .33663 | .10970 |
| #1 | .04272 | 53.741 | .77174 | .79003 | 2.0917 | .03846 | 1.6232 | 112.71 | .08332 |
| #2 | .04298 | 54.041 | .77741 | .79047 | 2.1028 | .03876 | 1.6319 | 113.25 | .08345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50511** | **.20221** | **.35641** | **308.36** | **45.347** | **.82435** | **90.085** | **3.9376** | **.74985** |
| Stddev | .00018 | .00036 | .00021 | 1.12 | .146 | .00142 | .040 | .0136 | .00086 |
| %RSD | .03650 | .17882 | .05871 | .36333 | .32198 | .17238 | .04468 | .34464 | .11446 |
| #1 | .50498 | .20195 | .35656 | 307.57 | 45.243 | .82335 | 90.057 | 3.9280 | .74924 |
| #2 | .50524 | .20246 | .35626 | 309.15 | 45.450 | .82536 | 90.114 | 3.9472 | .75045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.259** | **.45710** | **22.294** | **.40574** | **1.0252** | **.28319** | **1.5783** | **4.0371** | **1.3686** |
| Stddev | .001 | .00049 | .026 | .00041 | .0031 | .00093 | .0105 | .0029 | .0035 |
| %RSD | .00153 | .10617 | .11469 | .10168 | .30465 | .33002 | .66454 | .07236 | .25711 |
| #1 | 47.260 | .45744 | 22.276 | .40603 | 1.0230 | .28385 | 1.5709 | 4.0351 | 1.3661 |
| #2 | 47.259 | .45675 | 22.312 | .40545 | 1.0274 | .28253 | 1.5858 | 4.0392 | 1.3711 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0160** | **.87123** | W **24.960** | **1.5094** | **1.5668** | **1.1553** | **.86595** | **.70117** |
| Stddev | .0038 | .00047 | .034 | .0045 | .0357 | .0002 | .00151 | .00020 |
| %RSD | .37685 | .05424 | .13457 | .29718 | 2.2765 | .01926 | .17452 | .02859 |
| #1 | 1.0133 | .87156 | 24.937 | 1.5062 | 1.5920 | 1.1551 | .86701 | .70131 |
| #2 | 1.0187 | .87089 | 24.984 | 1.5126 | 1.5415 | 1.1554 | .86488 | .70103 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6329.9** | **80168.** | **4514.3** |
| Stddev | 13.4 | 426. | 29.0 |
| %RSD | .21119 | .53180 | .64317 |
| #1 | 6320.5 | 79867. | 4534.8 |
| #2 | 6339.4 | 80470. | 4493.8 |

Sample Name: 280-42238-A-2-A Acquired: 5/17/2013 10:47:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **36.599** | **.01407** | **.00099** | **.41132** | **-.00024** | **-.00213** | **49.382** | **.00118** |
| Stddev | .00038 | .174 | .00108 | .00026 | .00186 | .00025 | .01037 | .186 | .00002 |
| %RSD | 34.861 | .47583 | 7.7083 | 26.706 | .45222 | 105.79 | 487.50 | .37697 | 1.5606 |
| #1 | .00137 | 36.722 | .01483 | .00118 | .41263 | -.00041 | -.00946 | 49.514 | .00120 |
| #2 | .00083 | 36.476 | .01330 | .00080 | .41000 | -.00006 | .00521 | 49.251 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09760** | **.02441** | **.13835** | **257.68** | **4.5094** | **.02263** | **38.625** | **2.9008** | **.00175** |
| Stddev | .00063 | .00039 | .00043 | 1.62 | .0004 | .00097 | .057 | .0077 | .00027 |
| %RSD | .64106 | 1.6057 | .31104 | .62935 | .00808 | 4.2787 | .14853 | .26547 | 15.583 |
| #1 | .09805 | .02469 | .13804 | 258.82 | 4.5091 | .02331 | 38.585 | 2.8954 | .00195 |
| #2 | .09716 | .02414 | .13865 | 256.53 | 4.5096 | .02194 | 38.666 | 2.9063 | .00156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2777** | **.06010** | **12.735** | **.01519** | **.83877** | **.00764** | **.00228** | **1.1747** | **.01887** |
| Stddev | .0211 | .00032 | .022 | .00156 | .00398 | .00047 | .00241 | .0737 | .00103 |
| %RSD | .92572 | .53672 | .16965 | 10.264 | .47462 | 6.1658 | 105.72 | 6.2723 | 5.4821 |
| #1 | 2.2926 | .06033 | 12.720 | .01630 | .84159 | .00731 | .00398 | 1.2268 | .01960 |
| #2 | 2.2628 | .05987 | 12.751 | .01409 | .83596 | .00797 | .00057 | 1.1226 | .01814 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17293** | **.05755** | W **20.983** | **-.00692** | W **-.08582** | **.60633** | **.39842** | **.25340** |
| Stddev | .00051 | .00161 | .083 | .00135 | .03879 | .00018 | .00179 | .00179 |
| %RSD | .29477 | 2.7950 | .39620 | 19.435 | 45.195 | .02922 | .44881 | .70496 |
| #1 | .17329 | .05641 | 20.924 | -.00597 | -.05839 | .60620 | .39716 | .25213 |
| #2 | .17257 | .05868 | 21.042 | -.00788 | -.11325 | .60645 | .39969 | .25466 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6372.6** | **80296.** | **4532.6** |
| Stddev | 1.2 | 293. | 10.3 |
| %RSD | .01824 | .36458 | .22768 |
| #1 | 6371.7 | 80503. | 4525.3 |
| #2 | 6373.4 | 80089. | 4539.9 |

Sample Name: 280-42238-A-3-A Acquired: 5/17/2013 10:50:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **49.691** | **.02176** | **.00584** | **.56329** | **.00025** | **-.00141** | **55.604** | **.00111** |
| Stddev | .00074 | .033 | .00004 | .00053 | .00003 | .00011 | .00061 | .149 | .00009 |
| %RSD | 104.58 | .06734 | .20082 | 9.1328 | .00606 | 42.934 | 43.526 | .26803 | 8.4501 |
| #1 | .00019 | 49.715 | .02179 | .00621 | .56327 | .00018 | -.00097 | 55.710 | .00105 |
| #2 | .00124 | 49.667 | .02173 | .00546 | .56332 | .00033 | -.00184 | 55.499 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09547** | **.05077** | **.14011** | **235.62** | **7.7623** | **.04508** | **43.764** | **2.9294** | **.00173** |
| Stddev | .00014 | .00011 | .00005 | .05 | .0165 | .00072 | .004 | .0001 | .00034 |
| %RSD | .14353 | .22455 | .03394 | .01934 | .21286 | 1.5987 | .00902 | .00446 | 19.382 |
| #1 | .09557 | .05069 | .14008 | 235.58 | 7.7506 | .04457 | 43.767 | 2.9295 | .00197 |
| #2 | .09538 | .05085 | .14015 | 235.65 | 7.7740 | .04559 | 43.761 | 2.9293 | .00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2883** | **.09041** | **11.161** | **.02612** | **.99332** | **.00783** | **.00611** | **2.0902** | **.01590** |
| Stddev | .0267 | .00019 | .016 | .00158 | .00207 | .00021 | .00559 | .0143 | .00071 |
| %RSD | 1.1659 | .21393 | .14535 | 6.0473 | .20815 | 2.7294 | 91.435 | .68248 | 4.4850 |
| #1 | 2.3072 | .09028 | 11.173 | .02723 | .99478 | .00768 | .00216 | 2.1003 | .01640 |
| #2 | 2.2695 | .09055 | 11.150 | .02500 | .99186 | .00798 | .01007 | 2.0801 | .01540 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21216** | **.05809** | W **19.157** | **-.00847** | W **-.08345** | **.57460** | **.40731** | **.22658** |
| Stddev | .00025 | .00005 | .008 | .00018 | .01813 | .00004 | .00072 | .00425 |
| %RSD | .11800 | .07811 | .04086 | 2.1201 | 21.731 | .00628 | .17672 | 1.8744 |
| #1 | .21234 | .05812 | 19.151 | -.00834 | -.07063 | .57462 | .40782 | .22958 |
| #2 | .21198 | .05806 | 19.162 | -.00860 | -.09627 | .57457 | .40680 | .22358 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6206.4** | **78306.** | **4405.5** |
| Stddev | 13.7 | 289. | 58.3 |
| %RSD | .22005 | .36920 | 1.3243 |
| #1 | 6196.8 | 78101. | 4364.3 |
| #2 | 6216.1 | 78510. | 4446.8 |

Sample Name: 280-42238-A-4-A Acquired: 5/17/2013 10:52:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00112** | **36.595** | **.01558** | **-.00031** | **.42225** | **-.00002** | **-.00124** | **57.253** | **.00121** |
| Stddev | .00010 | .047 | .00091 | .00038 | .00079 | .00001 | .00209 | .018 | .00004 |
| %RSD | 8.4816 | .12768 | 5.8149 | 121.35 | .18743 | 55.341 | 169.21 | .03071 | 3.5504 |
| #1 | .00119 | 36.562 | .01494 | -.00004 | .42281 | -.00003 | -.00271 | 57.240 | .00124 |
| #2 | .00106 | 36.628 | .01622 | -.00058 | .42169 | -.00001 | .00024 | 57.265 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10367** | **.02307** | **.14430** | **247.06** | **4.5480** | **.02384** | **41.106** | **2.7376** | **.00174** |
| Stddev | .00004 | .00003 | .00031 | .03 | .0286 | .00144 | .093 | .0026 | .00007 |
| %RSD | .03974 | .11922 | .21163 | .01188 | .62925 | 6.0280 | .22690 | .09655 | 3.9989 |
| #1 | .10364 | .02305 | .14409 | 247.08 | 4.5682 | .02485 | 41.040 | 2.7358 | .00169 |
| #2 | .10370 | .02309 | .14452 | 247.04 | 4.5277 | .02282 | 41.172 | 2.7395 | .00179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7801** | **.06284** | **13.900** | **.01881** | **.97706** | **.00729** | **.00675** | **1.4183** | **.01853** |
| Stddev | .0071 | .00067 | .012 | .00080 | .00071 | .00015 | .00137 | .0003 | .00077 |
| %RSD | .25401 | 1.0677 | .08907 | 4.2522 | .07283 | 2.0780 | 20.300 | .02353 | 4.1408 |
| #1 | 2.7851 | .06332 | 13.891 | .01938 | .97757 | .00740 | .00772 | 1.4185 | .01798 |
| #2 | 2.7751 | .06237 | 13.909 | .01824 | .97656 | .00719 | .00578 | 1.4180 | .01907 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17728** | **.05893** | W **18.612** | **-.00628** | F **-.11569** | **.54990** | **.41658** | **.26424** |
| Stddev | .00031 | .00100 | .060 | .00050 | .02094 | .00198 | .00170 | .00150 |
| %RSD | .17238 | 1.6977 | .32269 | 7.9515 | 18.097 | .35992 | .40870 | .56751 |
| #1 | .17707 | .05964 | 18.569 | -.00593 | -.13050 | .54850 | .41537 | .26530 |
| #2 | .17750 | .05823 | 18.654 | -.00663 | -.10089 | .55130 | .41778 | .26318 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 50.000 | | | |
| Low Limit | | | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6461.3** | **81567.** | **4643.6** |
| Stddev | 14.4 | 93. | 4.0 |
| %RSD | .22330 | .11382 | .08525 |
| #1 | 6451.1 | 81633. | 4640.8 |
| #2 | 6471.5 | 81501. | 4646.4 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 10:55:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **49.595** | **-.00065** | **.00090** | **-.00063** | **-.00012** | **.98729** | **.00995** | **-.00072** | **.00210** | **-.00024** | **-.00121** | **49.720** |
| Stddev | .00034 | .132 | .00143 | .00043 | .00001 | .00002 | .00772 | .00068 | .00010 | .00003 | .00012 | .00056 | .011 |
| %RSD | 358.13 | .26587 | 220.58 | 47.961 | .97145 | 17.509 | .78222 | 6.8550 | 13.785 | 1.5053 | 51.993 | 46.291 | .02259 |
| #1 | -.00033 | 49.502 | -.00166 | .00120 | -.00064 | -.00011 | .99275 | .01044 | -.00079 | .00208 | -.00015 | -.00081 | 49.728 |
| #2 | .00014 | 49.689 | .00036 | .00059 | -.00063 | -.00014 | .98183 | .00947 | -.00065 | .00212 | -.00033 | -.00161 | 49.712 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.21435** | **-.00023** | **.01662** | **.00035** | **-.00160** | **247.63** | **.00184** | **.00608** | **-.00034** | **4.9683** | **.00247** | **.00712** | **.02220** |
| Stddev | .03252 | .00061 | .00193 | .00001 | .00005 | .22 | .00011 | .00104 | .00142 | .0065 | .00224 | .00144 | .02352 |
| %RSD | 15.172 | 269.67 | 11.637 | 1.8850 | 3.3739 | .08938 | 6.1744 | 17.064 | 418.96 | .13068 | 90.471 | 20.262 | 105.96 |
| #1 | -.19135 | .00021 | .01526 | .00034 | -.00156 | 247.47 | .00176 | .00535 | .00066 | 4.9729 | .00405 | .00814 | .00557 |
| #2 | -.23734 | -.00066 | .01799 | .00035 | -.00164 | 247.79 | .00192 | .00682 | -.00134 | 4.9637 | .00089 | .00610 | .03883 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.00031** | **5.0436** | **.00725** | **-.00018** | **9.9429** | **.00028** | **.00393** | **-.04790** |
| Stddev | .00099 | .00005 | .0075 | .00055 | .00050 | .0270 | .00009 | .00045 | .00448 |
| %RSD | 1286.2 | 15.737 | .14872 | 7.6297 | 273.89 | .27147 | 32.240 | 11.358 | 9.3452 |
| #1 | -.00077 | .00028 | 5.0489 | .00686 | .00017 | 9.9620 | .00021 | .00362 | -.04474 |
| #2 | .00062 | .00035 | 5.0383 | .00764 | -.00053 | 9.9238 | .00034 | .00425 | -.05107 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5473.1** | **69114.** | **3867.2** |
| Stddev | 14.1 | 485. | 18.4 |
| %RSD | .25683 | .70207 | .47459 |
| #1 | 5483.0 | 68771. | 3880.1 |
| #2 | 5463.1 | 69457. | 3854.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 10:57:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49630** | **.48214** | **.96062** | **.49977** | **.48533** | **.47356** | **.00512** | **4.8700** | **.48940** | **.49829** | **.48172** | **.47895** | **2.4017** |
| Stddev | .00046 | .00103 | .00222 | .00157 | .00402 | .00277 | .00113 | .0236 | .00093 | .00006 | .00196 | .00187 | .0176 |
| %RSD | .09227 | .21402 | .23133 | .31501 | .82791 | .58510 | 22.097 | .48548 | .18927 | .01263 | .40639 | .39036 | .73267 |
| #1 | .49598 | .48287 | .96220 | .50088 | .48817 | .47552 | .00432 | 4.8867 | .49005 | .49825 | .48310 | .47762 | 2.4142 |
| #2 | .49663 | .48141 | .95905 | .49866 | .48249 | .47160 | .00592 | 4.8533 | .48874 | .49834 | .48033 | .48027 | 2.3893 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.761** | **.97493** | **19.398** | **.48990** | **.47475** | **4.6138** | **.48965** | **.98599** | **.98698** | **-.03198** | **.97919** | **1.0002** | **4.7911** |
| Stddev | .393 | .00674 | .015 | .00066 | .00065 | .0255 | .00108 | .00168 | .00201 | .00224 | .00197 | .0025 | .0114 |
| %RSD | .80646 | .69115 | .07651 | .13411 | .13726 | .55316 | .21959 | .17062 | .20391 | 7.0146 | .20164 | .25429 | .23848 |
| #1 | 49.039 | .97970 | 19.388 | .48943 | .47522 | 4.6318 | .49041 | .98480 | .98556 | -.03039 | .98058 | 1.0020 | 4.7830 |
| #2 | 48.483 | .97017 | 19.409 | .49036 | .47429 | 4.5957 | .48889 | .98718 | .98840 | -.03357 | .97779 | .99845 | 4.7992 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95591** | **.49677** | **.00122** | **.48592** | **.96641** | **.01572** | **.47940** | **.48640** | **.47922** |
| Stddev | .00131 | .00310 | .00062 | .00165 | .00351 | .04036 | .00060 | .00007 | .00312 |
| %RSD | .13672 | .62382 | 50.672 | .33897 | .36289 | 256.79 | .12603 | .01408 | .65169 |
| #1 | .95684 | .49896 | .00166 | .48476 | .96889 | .04426 | .47897 | .48635 | .48143 |
| #2 | .95499 | .49458 | .00078 | .48709 | .96393 | -.01282 | .47982 | .48645 | .47701 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5469.0** | **68684.** | **3781.8** |
| Stddev | 1.3 | 65. | 51.3 |
| %RSD | .02303 | .09392 | 1.3555 |
| #1 | 5469.9 | 68639. | 3745.5 |
| #2 | 5468.1 | 68730. | 3818.0 |

Sample Name: CCB Acquired: 5/17/2013 10:59:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00007** | **.00094** | **.00046** | W **-.00100** | **.00006** | **.00243** | **-.00334** | **-.00004** | **.00018** | **-.00017** |
| Stddev | .00048 | .00031 | .00285 | .00042 | .00052 | .00003 | .00059 | .00012 | .00006 | .00009 | .00001 |
| %RSD | 123.82 | 448.69 | 303.15 | 91.842 | 51.952 | 50.242 | 24.370 | 3.6261 | 132.36 | 50.260 | 4.9334 |
| #1 | .00005 | -.00015 | -.00107 | .00076 | -.00137 | .00008 | .00285 | -.00342 | -.00000 | .00024 | -.00016 |
| #2 | .00073 | .00029 | .00295 | .00016 | -.00063 | .00004 | .00201 | -.00325 | -.00008 | .00011 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **-.00178** | **-.16484** | **.00005** | **.00142** | **-.00004** | **.00039** | F **-.14808** | **.00031** | **.00073** | **.00179** |
| Stddev | .00003 | .00176 | .03142 | .00138 | .00085 | .00001 | .00036 | .01500 | .00002 | .00195 | .00076 |
| %RSD | 4.7864 | 98.808 | 19.059 | 2937.3 | 60.019 | 26.980 | 91.773 | 10.129 | 5.6082 | 267.10 | 42.419 |
| #1 | -.00060 | -.00302 | -.14263 | .00102 | .00203 | -.00003 | .00065 | -.13748 | .00032 | .00211 | .00233 |
| #2 | -.00056 | -.00054 | -.18706 | -.00093 | .00082 | -.00005 | .00014 | -.15869 | .00030 | -.00065 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03107** | **.00203** | **.00168** | **.00214** | **-.00015** | **-.00021** | **.00185** | **.00028** | **-.00084** | **.00650** | **.00021** |
| Stddev | .00153 | .00237 | .00107 | .00835 | .00023 | .00023 | .00095 | .00007 | .00159 | .01215 | .00069 |
| %RSD | 4.9409 | 116.94 | 63.491 | 389.79 | 157.32 | 109.57 | 51.418 | 25.290 | 189.26 | 186.93 | 322.06 |
| #1 | -.02998 | .00371 | .00243 | -.00376 | -.00031 | -.00005 | .00118 | .00033 | -.00197 | -.00209 | -.00027 |
| #2 | -.03215 | .00035 | .00092 | .00805 | .00002 | -.00037 | .00252 | .00023 | .00028 | .01509 | .00070 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00193** | **.00029** |
| Stddev | .00011 | .00055 |
| %RSD | 5.4865 | 192.74 |
| #1 | .00186 | .00068 |
| #2 | .00201 | -.00010 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5411.0** | **68841.** | **3751.4** |
| Stddev | 5.0 | 180. | 17.2 |
| %RSD | .09219 | .26174 | .45851 |
| #1 | 5407.5 | 68714. | 3763.5 |
| #2 | 5414.5 | 68968. | 3739.2 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 11:02:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01041** | **.09838** | **.01568** | **.10240** | **.00903** | W **.00075** | **.10516** | **.19800** | **.00474** | **.01052** | **.00988** |
| Stddev | .00001 | .00023 | .00136 | .00077 | .00016 | .00010 | .00167 | .00065 | .00009 | .00022 | .00020 |
| %RSD | .14215 | .23017 | 8.6471 | .74971 | 1.7647 | 13.734 | 1.5859 | .32859 | 1.9129 | 2.0747 | 2.0483 |
| #1 | .01042 | .09854 | .01472 | .10294 | .00914 | .00068 | .10398 | .19846 | .00480 | .01037 | .01002 |
| #2 | .01040 | .09822 | .01663 | .10185 | .00891 | .00082 | .10634 | .19754 | .00467 | .01068 | .00973 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01355** | **.09666** | **2.8575** | **.00850** | **.19907** | **.00996** | **.01938** | **.81271** | **.04030** | **2.9698** | **.00769** |
| Stddev | .00019 | .00098 | .0206 | .00057 | .00023 | .00003 | .00016 | .01949 | .00044 | .0181 | .00176 |
| %RSD | 1.4228 | 1.0152 | .72069 | 6.7343 | .11641 | .25428 | .82457 | 2.3980 | 1.1023 | .61115 | 22.929 |
| #1 | .01341 | .09736 | 2.8721 | .00890 | .19891 | .00998 | .01927 | .79893 | .04061 | 2.9827 | .00894 |
| #2 | .01369 | .09597 | 2.8430 | .00809 | .19924 | .00994 | .01949 | .82649 | .03999 | 2.9570 | .00644 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03607** | **.01166** | **.01678** | **.49166** | **.09753** | **.00995** | **.01578** | **.00994** | **.01545** | F **.04032** | **.00960** |
| Stddev | .00452 | .00152 | .00247 | .01027 | .00012 | .00007 | .00006 | .00022 | .00007 | .04096 | .00029 |
| %RSD | 12.529 | 13.027 | 14.723 | 2.0896 | .12186 | .68541 | .37171 | 2.2173 | .46528 | 101.59 | 3.0361 |
| #1 | -.03927 | .01059 | .01853 | .48439 | .09744 | .00990 | .01582 | .00979 | .01540 | .01135 | .00981 |
| #2 | -.03288 | .01274 | .01503 | .49892 | .09761 | .01000 | .01574 | .01010 | .01550 | .06928 | .00939 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02203** | **.01448** |
| Stddev | .00027 | .00123 |
| %RSD | 1.2093 | 8.4986 |
| #1 | .02184 | .01535 |
| #2 | .02222 | .01361 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5550.0** | **70495.** | **3826.2** |
| Stddev | 3.0 | 329. | .9 |
| %RSD | .05431 | .46727 | .02333 |
| #1 | 5547.8 | 70262. | 3825.6 |
| #2 | 5552.1 | 70728. | 3826.9 |

Sample Name: MB 280-174435/1-A Acquired: 5/17/2013 11:04:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **.01094** | **.00054** | **.00151** | **-.00011** | **-.00001** | **.00216** | **.05924** | **.00005** |
| Stddev | .00013 | .00001 | .00049 | .00046 | .00029 | .00015 | .00089 | .00227 | .00013 |
| %RSD | 11.794 | .06667 | 90.291 | 30.269 | 262.24 | 2352.8 | 41.023 | 3.8295 | 281.31 |
| #1 | .00100 | .01095 | .00020 | .00119 | .00009 | .00010 | .00153 | .06085 | .00014 |
| #2 | .00118 | .01094 | .00089 | .00183 | -.00031 | -.00011 | .00279 | .05764 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **-.00016** | **.00042** | **.02018** | **-.16118** | **.00001** | **.01002** | **.00038** | **.00035** |
| Stddev | .00001 | .00002 | .00005 | .00144 | .02821 | .00161 | .00158 | .00005 | .00026 |
| %RSD | 9.4781 | 10.828 | 12.776 | 7.1147 | 17.502 | 18078. | 15.752 | 13.109 | 73.280 |
| #1 | .00009 | -.00015 | .00045 | .02120 | -.14123 | -.00113 | .00891 | .00034 | .00017 |
| #2 | .00010 | -.00017 | .00038 | .01916 | -.18113 | .00115 | .01114 | .00041 | .00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21104** | **.00049** | F **.07675** | **.00023** | **.03514** | **.00136** | **.00344** | **.03368** | **.00598** |
| Stddev | .00125 | .00019 | .00080 | .00186 | .00074 | .00260 | .00021 | .00769 | .00040 |
| %RSD | .59076 | 40.014 | 1.0361 | 810.52 | 2.1032 | 191.40 | 6.2137 | 22.838 | 6.7424 |
| #1 | .21016 | .00035 | .07731 | .00155 | .03566 | .00320 | .00328 | .03912 | .00569 |
| #2 | .21192 | .00062 | .07618 | -.00109 | .03462 | -.00048 | .00359 | .02824 | .00626 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **-.00117** | **.00071** | **-.00051** | **.02420** | **.00058** | **.00273** | **.00032** |
| Stddev | .00002 | .00060 | .00005 | .00096 | .01438 | .00025 | .00051 | .00093 |
| %RSD | 63.656 | 51.031 | 6.7664 | 188.32 | 59.441 | 43.730 | 18.687 | 295.67 |
| #1 | .00002 | -.00075 | .00074 | .00017 | .03437 | .00076 | .00309 | .00098 |
| #2 | .00005 | -.00159 | .00068 | -.00118 | .01403 | .00040 | .00237 | -.00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5517.2** | **70166.** | **3869.6** |
| Stddev | 8.8 | 58. | 26.7 |
| %RSD | .15964 | .08202 | .68937 |
| #1 | 5523.4 | 70125. | 3850.7 |
| #2 | 5511.0 | 70207. | 3888.4 |

Sample Name: LCS 280-174435/2-A Acquired: 5/17/2013 11:07:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05124** | **1.8342** | **.93973** | **.97014** | **1.9207** | **.04677** | **1.9700** | **47.035** | **.09807** |
| Stddev | .00014 | .0075 | .00070 | .00478 | .0050 | .00009 | .0043 | .184 | .00058 |
| %RSD | .26706 | .40827 | .07411 | .49278 | .25932 | .18583 | .22041 | .39034 | .59495 |
| #1 | .05114 | 1.8289 | .93924 | .96676 | 1.9242 | .04671 | 1.9670 | 47.165 | .09766 |
| #2 | .05133 | 1.8395 | .94022 | .97352 | 1.9172 | .04683 | 1.9731 | 46.905 | .09849 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47924** | **.18837** | **.23730** | **.95839** | **48.355** | **.96458** | **46.573** | **.47163** | **.93334** |
| Stddev | .00182 | .00077 | .00071 | .00346 | .283 | .00441 | .034 | .00046 | .00349 |
| %RSD | .37952 | .40665 | .30101 | .36139 | .58508 | .45675 | .07192 | .09668 | .37358 |
| #1 | .47796 | .18782 | .23781 | .96084 | 48.555 | .96770 | 46.597 | .47195 | .93088 |
| #2 | .48053 | .18891 | .23680 | .95595 | 48.154 | .96147 | 46.549 | .47130 | .93581 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.490** | **.47042** | **9.8962** | **.47305** | **.04001** | **.48531** | **1.9394** | **1.1167** | **1.8598** |
| Stddev | .018 | .00174 | .0348 | .00092 | .00170 | .00165 | .0050 | .0043 | .0071 |
| %RSD | .03636 | .36983 | .35111 | .19520 | 4.2430 | .34020 | .25889 | .38635 | .38272 |
| #1 | 50.477 | .46919 | 9.8716 | .47240 | .04121 | .48415 | 1.9358 | 1.1137 | 1.8547 |
| #2 | 50.503 | .47165 | 9.9208 | .47370 | .03881 | .48648 | 1.9429 | 1.1198 | 1.8648 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97498** | **.99063** | **.94821** | **1.8938** | **2.0043** | **.46999** | **.46296** | **.46134** |
| Stddev | .00362 | .00051 | .00158 | .0041 | .0181 | .00196 | .00270 | .00081 |
| %RSD | .37135 | .05188 | .16630 | .21823 | .90515 | .41806 | .58371 | .17495 |
| #1 | .97754 | .99027 | .94932 | 1.8909 | 1.9914 | .47138 | .46487 | .46077 |
| #2 | .97242 | .99099 | .94709 | 1.8967 | 2.0171 | .46860 | .46105 | .46191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5303.0** | **67550.** | **3772.0** |
| Stddev | 22.9 | 138. | 23.1 |
| %RSD | .43101 | .20400 | .61257 |
| #1 | 5319.1 | 67453. | 3755.7 |
| #2 | 5286.8 | 67647. | 3788.3 |

Sample Name: 280-42229-A-1-A Acquired: 5/17/2013 11:09:17 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00176** | **62.155** | **.02438** | **.00250** | **.46920** | **.00015** | W **-.01964** | **56.556** | **.00128** |
| Stddev | .00007 | .106 | .00159 | .00015 | .00169 | .00003 | .00514 | .071 | .00009 |
| %RSD | 4.0102 | .17101 | 6.5098 | 5.9278 | .36051 | 19.040 | 26.148 | .12588 | 6.7456 |
| #1 | .00171 | 62.230 | .02326 | .00240 | .47039 | .00017 | -.02327 | 56.606 | .00134 |
| #2 | .00181 | 62.079 | .02551 | .00261 | .46800 | .00013 | -.01601 | 56.506 | .00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12057** | **.06146** | **.16500** | **281.83** | **9.0296** | **.05401** | **54.517** | **3.7344** | **.00185** |
| Stddev | .00017 | .00034 | .00020 | .07 | .0723 | .00186 | .020 | .0037 | .00040 |
| %RSD | .14211 | .55566 | .11836 | .02550 | .80054 | 3.4466 | .03612 | .09798 | 21.595 |
| #1 | .12069 | .06122 | .16487 | 281.88 | 9.0808 | .05269 | 54.504 | 3.7319 | .00156 |
| #2 | .12045 | .06170 | .16514 | 281.78 | 8.9785 | .05533 | 54.531 | 3.7370 | .00213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7288** | **.11711** | **12.018** | **.02905** | **.93439** | **.00989** | **.00475** | **1.9307** | **.01972** |
| Stddev | .0030 | .00000 | .006 | .00005 | .00569 | .00004 | .00157 | .0069 | .00019 |
| %RSD | .10833 | .00130 | .04676 | .17806 | .60938 | .38415 | 33.121 | .35943 | .97510 |
| #1 | 2.7267 | .11711 | 12.022 | .02909 | .93036 | .00992 | .00586 | 1.9258 | .01985 |
| #2 | 2.7309 | .11711 | 12.014 | .02902 | .93841 | .00987 | .00364 | 1.9356 | .01958 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23032** | **.07035** | W **23.371** | **-.00907** | W **-.05792** | **.68641** | **.48134** | **.25386** |
| Stddev | .00009 | .00076 | .139 | .00100 | .01173 | .00009 | .00073 | .00007 |
| %RSD | .04044 | 1.0855 | .59396 | 11.068 | 20.244 | .01332 | .15082 | .02872 |
| #1 | .23039 | .07089 | 23.273 | -.00836 | -.06621 | .68635 | .48083 | .25381 |
| #2 | .23026 | .06981 | 23.469 | -.00977 | -.04963 | .68647 | .48185 | .25391 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6155.6** | **77407.** | **4360.2** |
| Stddev | 9.2 | 338. | 2.9 |
| %RSD | .15017 | .43622 | .06584 |
| #1 | 6162.1 | 77646. | 4362.3 |
| #2 | 6149.0 | 77169. | 4358.2 |

Sample Name: sd 280-42229-A-1-A@5 Acquired: 5/17/2013 11:11:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **13.820** | **.00529** | **.00067** | **.10276** | **-.00007** | **.00552** | **12.639** | **.00013** |
| Stddev | .00023 | .015 | .00085 | .00022 | .00046 | .00007 | .00412 | .055 | .00025 |
| %RSD | 42.628 | .10611 | 16.007 | 32.114 | .44425 | 101.29 | 74.661 | .43745 | 196.23 |
| #1 | .00038 | 13.831 | .00589 | .00082 | .10309 | -.00002 | .00261 | 12.678 | .00031 |
| #2 | .00071 | 13.810 | .00469 | .00052 | .10244 | -.00011 | .00843 | 12.600 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02761** | **.01374** | **.03495** | **63.345** | **1.8579** | **.00982** | **12.061** | **.83793** | **.00106** |
| Stddev | .00020 | .00020 | .00018 | .263 | .0290 | .00030 | .024 | .00164 | .00008 |
| %RSD | .72068 | 1.4807 | .52187 | .41480 | 1.5583 | 3.0500 | .20072 | .19518 | 7.5045 |
| #1 | .02747 | .01359 | .03482 | 63.531 | 1.8784 | .00961 | 12.078 | .83908 | .00100 |
| #2 | .02775 | .01388 | .03508 | 63.159 | 1.8374 | .01003 | 12.044 | .83677 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44980** | **.02686** | **2.6728** | **.00597** | **.17713** | **.00304** | **.00426** | **.45285** | **.00371** |
| Stddev | .01395 | .00008 | .0136 | .00206 | .00684 | .00113 | .00013 | .02644 | .00041 |
| %RSD | 3.1020 | .28543 | .50857 | 34.501 | 3.8625 | 37.097 | 3.0350 | 5.8384 | 10.973 |
| #1 | .43994 | .02691 | 2.6632 | .00742 | .18197 | .00225 | .00417 | .43415 | .00342 |
| #2 | .45967 | .02680 | 2.6824 | .00451 | .17229 | .00384 | .00435 | .47154 | .00399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05135** | **.01584** | **5.1853** | **-.00143** | **-.00582** | **.15218** | **.11142** | **.05798** |
| Stddev | .00007 | .00083 | .0041 | .00088 | .00694 | .00184 | .00020 | .00313 |
| %RSD | .13812 | 5.2240 | .07987 | 61.558 | 119.30 | 1.2096 | .17588 | 5.3947 |
| #1 | .05130 | .01642 | 5.1883 | -.00206 | -.00091 | .15348 | .11156 | .06019 |
| #2 | .05140 | .01525 | 5.1824 | -.00081 | -.01072 | .15087 | .11128 | .05577 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5645.0** | **71198.** | **3961.2** |
| Stddev | 8.4 | 483. | 22.7 |
| %RSD | .14945 | .67813 | .57314 |
| #1 | 5639.0 | 70857. | 3945.2 |
| #2 | 5651.0 | 71540. | 3977.3 |

Sample Name: 280-42229-A-1-B DU  Acquired: 5/17/2013 11:14:06  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **47.034** | **.02144** | **.00102** | **.43105** | **.00020** | **-.00424** | **58.843** | **.00121** |
| Stddev | .00119 | .389 | .00068 | .00010 | .00219 | .00004 | .00022 | .445 | .00003 |
| %RSD | 95.432 | .82615 | 3.1624 | 9.9831 | .50758 | 21.515 | 5.0822 | .75561 | 2.3164 |
| #1 | .00040 | 46.760 | .02192 | .00095 | .42950 | .00023 | -.00409 | 58.529 | .00119 |
| #2 | .00208 | 47.309 | .02097 | .00110 | .43260 | .00017 | -.00440 | 59.158 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10913** | **.04848** | **.15152** | **260.00** | **7.1314** | **.03845** | **43.482** | **3.0832** | **.00155** |
| Stddev | .00021 | .00018 | .00088 | .60 | .0260 | .00001 | .223 | .0136 | .00002 |
| %RSD | .19069 | .36462 | .58257 | .23115 | .36391 | .03178 | .51265 | .44061 | 1.2877 |
| #1 | .10898 | .04861 | .15089 | 259.57 | 7.1130 | .03846 | 43.324 | 3.0736 | .00156 |
| #2 | .10928 | .04836 | .15214 | 260.42 | 7.1497 | .03844 | 43.640 | 3.0928 | .00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3196** | **.08726** | **13.284** | **.02311** | **.93913** | **.00681** | **.00835** | **1.3148** | **.01531** |
| Stddev | .0092 | .00013 | .012 | .00015 | .00148 | .00246 | .00433 | .0167 | .00036 |
| %RSD | .39450 | .14585 | .09100 | .63738 | .15745 | 36.044 | 51.856 | 1.2721 | 2.3410 |
| #1 | 2.3131 | .08717 | 13.292 | .02301 | .93809 | .00508 | .00529 | 1.3029 | .01557 |
| #2 | 2.3261 | .08735 | 13.275 | .02321 | .94018 | .00855 | .01142 | 1.3266 | .01506 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19420** | **.06603** | W **20.043** | **-.00704** | W **-.08240** | **.65107** | **.44524** | **.24704** |
| Stddev | .00156 | .00118 | .061 | .00130 | .00632 | .00240 | .00287 | .00183 |
| %RSD | .80206 | 1.7932 | .30343 | 18.467 | 7.6666 | .36932 | .64376 | .74250 |
| #1 | .19309 | .06519 | 20.000 | -.00796 | -.08686 | .64937 | .44322 | .24574 |
| #2 | .19530 | .06686 | 20.086 | -.00612 | -.07793 | .65277 | .44727 | .24834 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6459.8** | **81824.** | **4640.9** |
| Stddev | 17.7 | 278. | 33.9 |
| %RSD | .27463 | .34024 | .73003 |
| #1 | 6447.3 | 82021. | 4664.9 |
| #2 | 6472.4 | 81628. | 4617.0 |

Sample Name: 280-42229-A-1-C MS  Acquired: 5/17/2013 11:16:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04493** | **69.302** | **.76219** | **.79972** | **2.1273** | **.03916** | **1.6829** | **114.89** | **.08492** |
| Stddev | .00063 | .374 | .00250 | .00214 | .0212 | .00030 | .0084 | .34 | .00005 |
| %RSD | 1.3987 | .53931 | .32847 | .26769 | .99605 | .77522 | .49866 | .29534 | .06121 |
| #1 | .04537 | 69.038 | .76396 | .80124 | 2.1123 | .03894 | 1.6770 | 114.65 | .08495 |
| #2 | .04448 | 69.567 | .76041 | .79821 | 2.1423 | .03937 | 1.6888 | 115.13 | .08488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51525** | **.21672** | **.36160** | **296.43** | **49.164** | **.86148** | **95.196** | **4.1620** | **.75878** |
| Stddev | .00118 | .00025 | .00153 | 2.57 | .031 | .00360 | .100 | .0546 | .00047 |
| %RSD | .22936 | .11691 | .42186 | .86857 | .06339 | .41741 | .10453 | 1.3129 | .06142 |
| #1 | .51609 | .21654 | .36052 | 294.61 | 49.142 | .85893 | 95.126 | 4.1233 | .75911 |
| #2 | .51441 | .21689 | .36268 | 298.25 | 49.186 | .86402 | 95.267 | 4.2006 | .75845 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.445** | **.48550** | **20.129** | **.41382** | **.98869** | **.24471** | **1.5814** | **4.5391** | **1.1831** |
| Stddev | .852 | .00016 | .004 | .00069 | .00039 | .00352 | .0077 | .0395 | .0047 |
| %RSD | 1.7222 | .03353 | .02198 | .16675 | .03933 | 1.4365 | .48995 | .87078 | .40099 |
| #1 | 48.842 | .48538 | 20.126 | .41431 | .98897 | .24223 | 1.5760 | 4.5670 | 1.1798 |
| #2 | 50.047 | .48561 | 20.132 | .41333 | .98842 | .24720 | 1.5869 | 4.5111 | 1.1865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0793** | **.89962** | W **22.970** | **1.5296** | **1.6268** | **1.1437** | **.85082** | **.67368** |
| Stddev | .0043 | .00258 | .198 | .0043 | .0259 | .0004 | .00058 | .00395 |
| %RSD | .39970 | .28713 | .86010 | .27774 | 1.5943 | .03030 | .06821 | .58604 |
| #1 | 1.0763 | .89779 | 22.831 | 1.5266 | 1.6085 | 1.1434 | .85041 | .67089 |
| #2 | 1.0824 | .90145 | 23.110 | 1.5326 | 1.6452 | 1.1439 | .85123 | .67647 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6276.2** | **80215.** | **4575.6** |
| Stddev | 30.6 | 261. | 11.4 |
| %RSD | .48748 | .32543 | .24962 |
| #1 | 6297.9 | 80400. | 4583.6 |
| #2 | 6254.6 | 80030. | 4567.5 |

Sample Name: 280-42229-A-2-A  Acquired: 5/17/2013 11:18:56  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **41.767** | **.01901** | **.00201** | **.39678** | **-.00004** | **.00263** | **44.505** | **.00098** |
| Stddev | .00071 | .417 | .00045 | .00004 | .00279 | .00011 | .00426 | .485 | .00008 |
| %RSD | 80.752 | .99870 | 2.3920 | 1.9925 | .70312 | 264.43 | 162.00 | 1.0898 | 8.6867 |
| #1 | .00038 | 41.472 | .01868 | .00198 | .39481 | -.00012 | .00565 | 44.162 | .00104 |
| #2 | .00139 | 42.062 | .01933 | .00203 | .39875 | .00004 | -.00038 | 44.848 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10445** | **.03813** | **.13013** | **247.56** | **4.6802** | **.03301** | **42.115** | **3.0470** | **.00215** |
| Stddev | .00076 | .00017 | .00132 | 2.55 | .0270 | .00075 | .185 | .0127 | .00016 |
| %RSD | .73155 | .45853 | 1.0181 | 1.0309 | .57756 | 2.2772 | .43844 | .41849 | 7.5624 |
| #1 | .10391 | .03801 | .13106 | 245.75 | 4.6993 | .03354 | 42.245 | 3.0560 | .00226 |
| #2 | .10499 | .03826 | .12919 | 249.36 | 4.6610 | .03247 | 41.984 | 3.0380 | .00204 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5266** | **.08287** | **11.102** | **.01918** | **.86217** | **.00689** | **.00128** | **1.2989** | **.01630** |
| Stddev | .0042 | .00020 | .013 | .00063 | .00068 | .00084 | .00185 | .0354 | .00000 |
| %RSD | .16556 | .24194 | .11703 | 3.2843 | .07887 | 12.210 | 144.72 | 2.7281 | .02553 |
| #1 | 2.5295 | .08302 | 11.111 | .01963 | .86169 | .00748 | .00258 | 1.2738 | .01631 |
| #2 | 2.5236 | .08273 | 11.093 | .01874 | .86265 | .00629 | -.00003 | 1.3239 | .01630 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16680** | **.05878** | W **21.033** | **-.00580** | **-.04179** | **.62263** | **.41435** | **.21563** |
| Stddev | .00184 | .00319 | .140 | .00044 | .01536 | .00359 | .00062 | .00054 |
| %RSD | 1.1058 | 5.4279 | .66460 | 7.5435 | 36.744 | .57636 | .14931 | .25089 |
| #1 | .16549 | .06103 | 21.131 | -.00611 | -.05265 | .62517 | .41391 | .21525 |
| #2 | .16810 | .05652 | 20.934 | -.00549 | -.03093 | .62009 | .41479 | .21601 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | | | | |
| Low Limit | | | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6246.1** | **79609.** | **4495.7** |
| Stddev | 9.1 | 75. | 49.5 |
| %RSD | .14561 | .09420 | 1.1002 |
| #1 | 6252.6 | 79555. | 4530.6 |
| #2 | 6239.7 | 79662. | 4460.7 |

Sample Name: 280-42229-A-3-A Acquired: 5/17/2013 11:21:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **41.965** | **.01884** | **-.00133** | **.50408** | **-.00041** | **-.00892** | **57.728** | **.00132** |
| Stddev | .00044 | .086 | .00269 | .00040 | .00038 | .00012 | .00508 | .154 | .00003 |
| %RSD | 36.209 | .20450 | 14.252 | 29.997 | .07461 | 29.528 | 56.979 | .26704 | 2.4225 |
| #1 | .00153 | 42.025 | .01695 | -.00161 | .50434 | -.00050 | -.00533 | 57.837 | .00134 |
| #2 | .00091 | 41.904 | .02074 | -.00105 | .50381 | -.00033 | -.01252 | 57.619 | .00130 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11878** | **.02906** | **.15794** | **306.13** | **4.9501** | **.02322** | **47.617** | **3.2920** | **.00210** |
| Stddev | .00035 | .00025 | .00010 | .34 | .0162 | .00017 | .023 | .0039 | .00018 |
| %RSD | .29858 | .85284 | .06066 | .11232 | .32787 | .71093 | .04889 | .11872 | 8.5878 |
| #1 | .11853 | .02888 | .15801 | 306.37 | 4.9386 | .02334 | 47.634 | 3.2947 | .00197 |
| #2 | .11903 | .02924 | .15787 | 305.89 | 4.9615 | .02310 | 47.601 | 3.2892 | .00223 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0076** | **.07224** | **15.213** | **.01871** | **1.1166** | **.01007** | **.00396** | **1.0427** | **.02112** |
| Stddev | .0148 | .00074 | .005 | .00286 | .0010 | .00074 | .00309 | .0095 | .00051 |
| %RSD | .49147 | 1.0286 | .03230 | 15.276 | .08743 | 7.3468 | 77.966 | .91152 | 2.4322 |
| #1 | 3.0181 | .07172 | 15.210 | .01669 | 1.1159 | .01059 | .00614 | 1.0494 | .02076 |
| #2 | 2.9972 | .07277 | 15.217 | .02073 | 1.1173 | .00954 | .00178 | 1.0359 | .02149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20152** | **.07017** | F **25.527** | **-.00900** | F **-.10111** | **.75063** | **.49169** | **.29123** |
| Stddev | .00008 | .00169 | .261 | .00003 | .05012 | .00112 | .00024 | .00417 |
| %RSD | .04188 | 2.4098 | 1.0211 | .34415 | 49.566 | .14886 | .04861 | 1.4302 |
| #1 | .20146 | .06898 | 25.342 | -.00902 | -.06567 | .75142 | .49186 | .29417 |
| #2 | .20158 | .07137 | 25.711 | -.00897 | -.13655 | .74984 | .49152 | .28828 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 25.000 | | 50.000 | | | |
| Low Limit | | | -.02000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6575.1** | **83617.** | **4740.8** |
| Stddev | 5.9 | 176. | 24.4 |
| %RSD | .08984 | .21075 | .51556 |
| #1 | 6579.3 | 83492. | 4723.6 |
| #2 | 6571.0 | 83742. | 4758.1 |

Sample Name: 280-42229-A-4-A Acquired: 5/17/2013 11:23:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00094** | **38.511** | **.01648** | **-.00100** | **.50760** | **-.00019** | **.01919** | **60.445** | **.00139** |
| Stddev | .00029 | .172 | .00021 | .00012 | .00184 | .00012 | .01135 | .225 | .00014 |
| %RSD | 30.546 | .44547 | 1.2848 | 12.437 | .36227 | 65.475 | 59.138 | .37194 | 10.072 |
| #1 | .00114 | 38.633 | .01663 | -.00091 | .50890 | -.00028 | .01117 | 60.604 | .00129 |
| #2 | .00074 | 38.390 | .01633 | -.00109 | .50630 | -.00010 | .02722 | 60.286 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11299** | **.02444** | **.15313** | **298.31** | **4.4846** | **.02293** | **43.169** | **3.3211** | **.00186** |
| Stddev | .00049 | .00013 | .00003 | 1.37 | .0027 | .00162 | .089 | .0057 | .00027 |
| %RSD | .43487 | .55194 | .02248 | .45818 | .05953 | 7.0672 | .20639 | .17058 | 14.533 |
| #1 | .11334 | .02454 | .15315 | 299.27 | 4.4865 | .02178 | 43.106 | 3.3171 | .00205 |
| #2 | .11264 | .02434 | .15310 | 297.34 | 4.4828 | .02407 | 43.232 | 3.3251 | .00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7215** | **.06552** | **15.248** | **.01998** | **1.1201** | **.00736** | **.00508** | **.97026** | **.02114** |
| Stddev | .0174 | .00014 | .008 | .00120 | .0036 | .00203 | .00381 | .01071 | .00075 |
| %RSD | .64025 | .22042 | .04974 | 5.9919 | .31871 | 27.619 | 75.137 | 1.1036 | 3.5337 |
| #1 | 2.7339 | .06542 | 15.254 | .01913 | 1.1226 | .00879 | .00777 | .96268 | .02062 |
| #2 | 2.7092 | .06562 | 15.243 | .02082 | 1.1176 | .00592 | .00238 | .97783 | .02167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19327** | **.07308** | W **25.000** | **-.00967** | W **-.09066** | **.72241** | **.47246** | **.29727** |
| Stddev | .00078 | .00320 | .111 | .00105 | .01625 | .00167 | .00164 | .00004 |
| %RSD | .40477 | 4.3780 | .44334 | 10.906 | 17.920 | .23175 | .34802 | .01256 |
| #1 | .19383 | .07082 | 24.922 | -.01042 | -.07917 | .72122 | .47130 | .29724 |
| #2 | .19272 | .07534 | 25.078 | -.00893 | -.10214 | .72359 | .47362 | .29730 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6559.1** | **83534.** | **4713.9** |
| Stddev | 1.5 | 386. | 14.4 |
| %RSD | .02323 | .46266 | .30491 |
| #1 | 6558.0 | 83807. | 4703.7 |
| #2 | 6560.2 | 83261. | 4724.0 |

Sample Name: 280-42229-A-5-A Acquired: 5/17/2013 11:26:14 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00094** | **42.305** | **.01924** | **-.00079** | **.45407** | **-.00005** | **.02776** | **57.079** | **.00129** |
| Stddev | .00090 | .207 | .00132 | .00015 | .00250 | .00010 | .00567 | .126 | .00019 |
| %RSD | 95.583 | .48910 | 6.8820 | 19.553 | .55007 | 195.65 | 20.425 | .22048 | 15.108 |
| #1 | .00158 | 42.159 | .02018 | -.00090 | .45231 | -.00012 | .03177 | 56.990 | .00143 |
| #2 | .00031 | 42.451 | .01830 | -.00068 | .45584 | .00002 | .02375 | 57.168 | .00115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11341** | **.04621** | **.14473** | **285.63** | **5.0323** | **.03128** | **49.013** | **3.3266** | **.00190** |
| Stddev | .00032 | .00030 | .00043 | 1.46 | .0322 | .00090 | .062 | .0001 | .00026 |
| %RSD | .27923 | .64081 | .29839 | .51272 | .64029 | 2.8764 | .12718 | .00280 | 13.554 |
| #1 | .11318 | .04600 | .14503 | 284.59 | 5.0550 | .03191 | 48.969 | 3.3267 | .00209 |
| #2 | .11363 | .04642 | .14442 | 286.66 | 5.0095 | .03064 | 49.057 | 3.3266 | .00172 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6784** | **.09408** | **13.214** | **.02379** | **1.0093** | **.00639** | **.00666** | **1.3467** | **.02074** |
| Stddev | .0092 | .00049 | .002 | .00065 | .0055 | .00150 | .00157 | .0091 | .00105 |
| %RSD | .34548 | .51980 | .01498 | 2.7418 | .54786 | 23.475 | 23.538 | .67615 | 5.0707 |
| #1 | 2.6718 | .09373 | 13.215 | .02333 | 1.0054 | .00533 | .00777 | 1.3403 | .02148 |
| #2 | 2.6849 | .09442 | 13.212 | .02425 | 1.0132 | .00745 | .00555 | 1.3531 | .02000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19304** | **.07088** | F **25.247** | **-.00698** | W **-.09861** | **.70521** | **.47257** | **.27693** |
| Stddev | .00076 | .00051 | .020 | .00039 | .00479 | .00013 | .00204 | .00194 |
| %RSD | .39592 | .72512 | .07786 | 5.5718 | 4.8600 | .01791 | .43196 | .69914 |
| #1 | .19250 | .07051 | 25.261 | -.00670 | -.09522 | .70530 | .47113 | .27556 |
| #2 | .19358 | .07124 | 25.233 | -.00725 | -.10200 | .70512 | .47402 | .27830 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 25.000 | | 45.000 | | | |
| Low Limit | | | -.02000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6376.6** | **81128.** | **4640.8** |
| Stddev | 53.1 | 114. | 8.5 |
| %RSD | .83226 | .14087 | .18405 |
| #1 | 6414.1 | 81208. | 4646.9 |
| #2 | 6339.0 | 81047. | 4634.8 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 11:28:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **49.902** | **.00099** | **-.00010** | **-.00039** | **-.00002** | **.98924** | **.00533** | **-.00099** | **.00212** | **-.00017** | **-.00200** | **50.106** |
| Stddev | .00052 | .232 | .00174 | .00042 | .00047 | .00013 | .00328 | .00352 | .00021 | .00005 | .00007 | .00023 | .219 |
| %RSD | 63.477 | .46488 | 175.90 | 399.87 | 120.36 | 609.54 | .33130 | 66.168 | 21.269 | 2.1392 | 41.667 | 11.342 | .43712 |
| #1 | .00045 | 50.066 | .00222 | .00019 | -.00006 | .00007 | .99156 | .00782 | -.00084 | .00208 | -.00022 | -.00184 | 50.261 |
| #2 | .00119 | 49.738 | -.00024 | -.00040 | -.00072 | -.00011 | .98692 | .00283 | -.00114 | .00215 | -.00012 | -.00216 | 49.951 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.21314** | **-.00052** | **.01262** | **.00009** | **-.00161** | **249.53** | **.00158** | **.00763** | **-.00235** | **4.9470** | **.00310** | **.00759** | **.00800** |
| Stddev | .03717 | .00003 | .00247 | .00009 | .00015 | 2.34 | .00016 | .00053 | .00015 | .0057 | .00088 | .00273 | .00749 |
| %RSD | 17.439 | 6.0703 | 19.595 | 98.770 | 9.4471 | .93746 | 10.425 | 6.8879 | 6.5086 | .11490 | 28.465 | 35.932 | 93.685 |
| #1 | -.23942 | -.00050 | .01437 | .00015 | -.00171 | 251.19 | .00169 | .00726 | -.00224 | 4.9510 | .00372 | .00567 | .01329 |
| #2 | -.18685 | -.00055 | .01088 | .00003 | -.00150 | 247.88 | .00146 | .00800 | -.00246 | 4.9429 | .00247 | .00952 | .00270 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **.00028** | **5.1042** | **.00627** | **-.00206** | **9.9320** | **-.00040** | **.00380** | **-.04995** |
| Stddev | .00040 | .00005 | .0004 | .00001 | .00101 | .0118 | .00019 | .00047 | .00132 |
| %RSD | 66.304 | 16.476 | .00826 | .13696 | 48.971 | .11882 | 47.774 | 12.296 | 2.6408 |
| #1 | -.00032 | .00024 | 5.1039 | .00626 | -.00135 | 9.9403 | -.00027 | .00414 | -.04902 |
| #2 | -.00088 | .00031 | 5.1045 | .00627 | -.00278 | 9.9236 | -.00054 | .00347 | -.05088 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5432.2** | **68406.** | **3838.2** |
| Stddev | 3.1 | 80. | 23.5 |
| %RSD | .05705 | .11672 | .61164 |
| #1 | 5430.0 | 68349. | 3821.6 |
| #2 | 5434.4 | 68462. | 3854.8 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 11:31:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49654** | **.48582** | **.94998** | **.49950** | **.48337** | **.46579** | **.00392** | **4.7880** | **.48842** | **.49686** | **.47515** | **.47234** | **2.3497** |
| Stddev | .00056 | .00055 | .00358 | .00131 | .00326 | .00437 | .00169 | .0193 | .00004 | .00180 | .00044 | .00016 | .0078 |
| %RSD | .11310 | .11253 | .37674 | .26277 | .67490 | .93741 | 43.075 | .40408 | .00751 | .36210 | .09174 | .03387 | .33122 |
| #1 | .49694 | .48621 | .94745 | .50043 | .48568 | .46887 | .00273 | 4.8017 | .48845 | .49814 | .47484 | .47245 | 2.3552 |
| #2 | .49615 | .48543 | .95251 | .49857 | .48106 | .46270 | .00512 | 4.7743 | .48839 | .49559 | .47545 | .47223 | 2.3442 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.759** | **.96464** | **19.004** | **.48798** | **.46350** | **4.5036** | **.48362** | **.98108** | **.98229** | **-.04092** | **.98062** | **1.0025** | **4.6573** |
| Stddev | .310 | .00758 | .013 | .00040 | .00120 | .0475 | .00156 | .00691 | .00243 | .00154 | .00231 | .0032 | .0074 |
| %RSD | .64853 | .78626 | .06916 | .08257 | .25889 | 1.0539 | .32167 | .70448 | .24732 | 3.7571 | .23544 | .32153 | .15888 |
| #1 | 47.978 | .97000 | 18.994 | .48769 | .46434 | 4.5371 | .48472 | .98597 | .98400 | -.04201 | .98225 | 1.0048 | 4.6520 |
| #2 | 47.540 | .95927 | 19.013 | .48826 | .46265 | 4.4700 | .48252 | .97619 | .98057 | -.03983 | .97899 | 1.0002 | 4.6625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93245** | **.49545** | **.00117** | **.48546** | **.94909** | **.01683** | **.47425** | **.47714** | **.48057** |
| Stddev | .00287 | .00228 | .00123 | .00055 | .00385 | .04266 | .00050 | .00075 | .00125 |
| %RSD | .30776 | .45928 | 105.19 | .11397 | .40613 | 253.46 | .10601 | .15743 | .25994 |
| #1 | .93448 | .49706 | .00030 | .48507 | .95181 | .04699 | .47389 | .47661 | .48146 |
| #2 | .93042 | .49384 | .00204 | .48585 | .94636 | -.01333 | .47460 | .47767 | .47969 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5547.0** | **69716.** | **3916.0** |
| Stddev | 2.0 | 84. | 26.2 |
| %RSD | .03618 | .12029 | .66804 |
| #1 | 5548.4 | 69775. | 3897.5 |
| #2 | 5545.6 | 69656. | 3934.5 |

Sample Name: CCB Acquired: 5/17/2013 11:33:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00112** | **.00238** | **.00197** | **.00005** | W **-.00078** | **-.00004** | **.00372** | **-.00782** | **.00008** | **.00002** | **-.00001** |
| Stddev | .00017 | .00344 | .00181 | .00005 | .00008 | .00004 | .00081 | .00391 | .00028 | .00004 | .00008 |
| %RSD | 15.103 | 144.68 | 91.795 | 94.010 | 10.463 | 94.462 | 21.748 | 49.988 | 339.47 | 222.42 | 1349.4 |
| #1 | .00124 | -.00005 | .00325 | .00002 | -.00083 | -.00001 | .00315 | -.00506 | -.00011 | .00005 | .00005 |
| #2 | .00100 | .00481 | .00069 | .00008 | -.00072 | -.00007 | .00429 | -.01059 | .00028 | -.00001 | -.00006 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | .00058 | | | | | | |
| Low Limit | -.00093 | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00099** | **.00184** | **-.15985** | **-.00164** | **-.00024** | **.00004** | **.00023** | F **-.17724** | **.00016** | **.00152** | **-.00013** |
| Stddev | .00046 | .00373 | .04070 | .00091 | .00456 | .00001 | .00022 | .00204 | .00005 | .00141 | .00026 |
| %RSD | 46.513 | 203.40 | 25.460 | 55.770 | 1893.0 | 25.732 | 93.509 | 1.1519 | 28.610 | 92.544 | 204.39 |
| #1 | -.00066 | .00448 | -.18863 | -.00099 | .00298 | .00003 | .00038 | -.17869 | .00019 | .00053 | .00006 |
| #2 | -.00131 | -.00080 | -.13107 | -.00228 | -.00346 | .00004 | .00008 | -.17580 | .00013 | .00252 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03894** | **.00279** | **.00452** | **.00367** | **-.00038** | **-.00006** | **.00160** | **.00015** | **-.00017** | **.02759** | **.00050** |
| Stddev | .00237 | .00060 | .00241 | .00824 | .00019 | .00002 | .00192 | .00042 | .00133 | .00010 | .00106 |
| %RSD | 6.0990 | 21.655 | 53.355 | 224.41 | 50.471 | 28.387 | 119.99 | 282.41 | 765.03 | .36388 | 210.99 |
| #1 | -.04062 | .00322 | .00281 | -.00216 | -.00052 | -.00007 | .00024 | .00045 | -.00111 | .02766 | -.00025 |
| #2 | -.03726 | .00237 | .00622 | .00950 | -.00025 | -.00005 | .00296 | -.00015 | .00076 | .02752 | .00125 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00242** | **.00099** |
| Stddev | .00025 | .00184 |
| %RSD | 10.392 | 186.14 |
| #1 | .00260 | -.00031 |
| #2 | .00224 | .00229 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5498.7** | **69729.** | **3885.9** |
| Stddev | 97.8 | 143. | 56.3 |
| %RSD | 1.7777 | .20504 | 1.4490 |
| #1 | 5567.8 | 69830. | 3846.0 |
| #2 | 5429.6 | 69628. | 3925.7 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 11:35:45 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01096** | **.10596** | **.01661** | **.10150** | **.00938** | **.00080** | **.10494** | **.19838** | **.00486** | **.01059** | **.00993** |
| Stddev | .00056 | .00055 | .00280 | .00047 | .00015 | .00003 | .00328 | .00031 | .00012 | .00021 | .00035 |
| %RSD | 5.0776 | .51651 | 16.850 | .46011 | 1.5478 | 4.1970 | 3.1274 | .15629 | 2.4442 | 1.9637 | 3.5137 |
| #1 | .01135 | .10557 | .01859 | .10117 | .00928 | .00078 | .10261 | .19816 | .00494 | .01044 | .00968 |
| #2 | .01057 | .10635 | .01463 | .10183 | .00948 | .00082 | .10726 | .19860 | .00477 | .01073 | .01017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01327** | **.11870** | **2.7803** | F **.00643** | **.20516** | **.01046** | **.01878** | W **.77283** | **.03995** | **2.9710** | **.00979** |
| Stddev | .00016 | .00446 | .0245 | .00173 | .00021 | .00007 | .00024 | .01381 | .00022 | .0097 | .00002 |
| %RSD | 1.1765 | 3.7613 | .87949 | 26.903 | .10100 | .68997 | 1.2587 | 1.7875 | .56169 | .32777 | .18577 |
| #1 | .01316 | .11554 | 2.7976 | .00521 | .20531 | .01051 | .01862 | .76307 | .04011 | 2.9641 | .00980 |
| #2 | .01338 | .12186 | 2.7630 | .00766 | .20501 | .01041 | .01895 | .78260 | .03979 | 2.9779 | .00977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | -30.000% | | | | -20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04101** | **.01023** | W **.01934** | **.49021** | **.09539** | **.00991** | **.01629** | W **.01234** | **.01600** | **.06900** | **.00982** |
| Stddev | .00113 | .00119 | .00310 | .00573 | .00010 | .00001 | .00084 | .00025 | .00149 | .01523 | .00064 |
| %RSD | 2.7518 | 11.643 | 16.045 | 1.1687 | .10860 | .07486 | 5.1421 | 2.0260 | 9.3143 | 22.075 | 6.5391 |
| #1 | -.04021 | .01107 | .01715 | .48616 | .09532 | .00992 | .01688 | .01252 | .01706 | .05823 | .01028 |
| #2 | -.04181 | .00939 | .02154 | .49426 | .09546 | .00991 | .01570 | .01217 | .01495 | .07977 | .00937 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | .01000 | | | |
| Range | | | 20.000% | | | | | 20.000% | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02278** | **.01619** |
| Stddev | .00018 | .00000 |
| %RSD | .78106 | .01098 |
| #1 | .02290 | .01619 |
| #2 | .02265 | .01618 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5518.4** | **69558.** | **3801.6** |
| Stddev | 18.1 | 171. | 8.0 |
| %RSD | .32726 | .24555 | .20948 |
| #1 | 5531.2 | 69437. | 3796.0 |
| #2 | 5505.7 | 69679. | 3807.2 |

Sample Name: 280-42229-A-6-A Acquired: 5/17/2013 11:38:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **44.719** | **.01700** | **-.00133** | **.51053** | **.00024** | **.02851** | **70.154** | **.00122** |
| Stddev | .00073 | .025 | .00016 | .00046 | .00031 | .00002 | .00269 | .258 | .00021 |
| %RSD | 60.322 | .05519 | .94098 | 34.367 | .06108 | 8.9394 | 9.4270 | .36806 | 16.838 |
| #1 | .00070 | 44.737 | .01689 | -.00101 | .51075 | .00026 | .02661 | 70.337 | .00137 |
| #2 | .00174 | 44.702 | .01712 | -.00166 | .51031 | .00023 | .03041 | 69.972 | .00108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10643** | **.02787** | **.15004** | **267.05** | **4.6670** | **.02329** | **41.309** | **3.0289** | **.00175** |
| Stddev | .00002 | .00005 | .00014 | .24 | .0429 | .00010 | .055 | .0028 | .00031 |
| %RSD | .02076 | .16192 | .09345 | .08951 | .91968 | .42501 | .13356 | .09211 | 17.560 |
| #1 | .10642 | .02790 | .15014 | 266.89 | 4.6367 | .02322 | 41.270 | 3.0269 | .00153 |
| #2 | .10645 | .02784 | .14994 | 267.22 | 4.6974 | .02336 | 41.348 | 3.0309 | .00197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.6284** | **.07094** | **13.426** | **.01637** | **.98949** | **.00823** | **.00484** | **1.1189** | **.01837** |
| Stddev | .0033 | .00023 | .002 | .00109 | .00635 | .00014 | .00092 | .0212 | .00075 |
| %RSD | .09125 | .32878 | .01462 | 6.6609 | .64160 | 1.6455 | 18.947 | 1.8910 | 4.0939 |
| #1 | 3.6307 | .07078 | 13.425 | .01560 | .98500 | .00833 | .00419 | 1.1338 | .01890 |
| #2 | 3.6260 | .07111 | 13.428 | .01714 | .99398 | .00814 | .00549 | 1.1039 | .01784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21351** | **.06208** | W **21.142** | **-.00805** | W **-.06723** | **.65735** | **.43092** | **.27451** |
| Stddev | .00098 | .00066 | .105 | .00027 | .00460 | .00250 | .00057 | .00306 |
| %RSD | .46034 | 1.0698 | .49614 | 3.3334 | 6.8383 | .38014 | .13323 | 1.1137 |
| #1 | .21420 | .06255 | 21.068 | -.00824 | -.07048 | .65558 | .43132 | .27235 |
| #2 | .21281 | .06161 | 21.216 | -.00786 | -.06398 | .65912 | .43051 | .27667 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6336.0** | **79710.** | **4455.3** |
| Stddev | .5 | 205. | 8.2 |
| %RSD | .00855 | .25695 | .18377 |
| #1 | 6335.7 | 79565. | 4449.6 |
| #2 | 6336.4 | 79855. | 4461.1 |

Sample Name: 280-42229-A-7-A Acquired: 5/17/2013 11:40:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **44.951** | **.01776** | **.00006** | **.46644** | **.00022** | **.02536** | **63.373** | **.00125** |
| Stddev | .00064 | .171 | .00067 | .00092 | .00097 | .00003 | .00575 | .251 | .00003 |
| %RSD | 45.270 | .37960 | 3.7747 | 1668.6 | .20860 | 14.697 | 22.688 | .39620 | 2.2813 |
| #1 | .00096 | 45.072 | .01823 | -.00060 | .46713 | .00024 | .02130 | 63.550 | .00123 |
| #2 | .00187 | 44.830 | .01728 | .00071 | .46576 | .00020 | .02943 | 63.195 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10368** | **.03808** | **.14843** | **271.22** | **5.4585** | **.02766** | **43.103** | **2.9250** | **.00186** |
| Stddev | .00098 | .00014 | .00009 | .53 | .0467 | .00088 | .097 | .0053 | .00014 |
| %RSD | .94915 | .36362 | .05805 | .19454 | .85540 | 3.1828 | .22491 | .18081 | 7.3520 |
| #1 | .10437 | .03818 | .14837 | 271.60 | 5.4915 | .02828 | 43.171 | 2.9287 | .00196 |
| #2 | .10298 | .03798 | .14849 | 270.85 | 5.4255 | .02703 | 43.034 | 2.9212 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7899** | **.07966** | **13.968** | **.02212** | **.92858** | **.00574** | **.00134** | **1.6433** | **.01861** |
| Stddev | .0118 | .00010 | .004 | .00021 | .00120 | .00033 | .00038 | .0360 | .00103 |
| %RSD | .42264 | .12413 | .02634 | .93909 | .12934 | 5.7456 | 28.345 | 2.1877 | 5.5616 |
| #1 | 2.7982 | .07973 | 13.970 | .02227 | .92943 | .00598 | .00160 | 1.6687 | .01934 |
| #2 | 2.7815 | .07959 | 13.965 | .02197 | .92773 | .00551 | .00107 | 1.6178 | .01787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21023** | **.06305** | W **22.176** | **-.00811** | W **-.08884** | **.66980** | **.45767** | **.26588** |
| Stddev | .00085 | .00038 | .027 | .00002 | .02179 | .00256 | .00130 | .00006 |
| %RSD | .40242 | .60964 | .12324 | .29605 | 24.523 | .38187 | .28381 | .02202 |
| #1 | .21083 | .06278 | 22.196 | -.00809 | -.10425 | .67161 | .45675 | .26592 |
| #2 | .20963 | .06332 | 22.157 | -.00813 | -.07344 | .66799 | .45859 | .26584 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6374.3** | **80564.** | **4540.5** |
| Stddev | 19.1 | 216. | 34.6 |
| %RSD | .29906 | .26829 | .76255 |
| #1 | 6360.8 | 80412. | 4516.1 |
| #2 | 6387.8 | 80717. | 4565.0 |

Sample Name: 280-42229-A-8-A Acquired: 5/17/2013 11:43:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00128** | **40.337** | **.01786** | **-.00128** | **.53862** | **.00035** | **.03532** | **52.085** | **.00127** |
| Stddev | .00022 | .059 | .00028 | .00046 | .00060 | .00020 | .00964 | .014 | .00009 |
| %RSD | 16.833 | .14751 | 1.5747 | 36.331 | .11191 | 56.567 | 27.305 | .02610 | 7.2082 |
| #1 | .00113 | 40.379 | .01806 | -.00095 | .53905 | .00021 | .02850 | 52.076 | .00134 |
| #2 | .00143 | 40.295 | .01766 | -.00161 | .53820 | .00049 | .04213 | 52.095 | .00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09331** | **.02574** | **.14119** | **246.97** | **5.0421** | **.02391** | **37.940** | **2.9313** | **.00138** |
| Stddev | .00067 | .00008 | .00005 | .02 | .0041 | .00021 | .095 | .0066 | .00037 |
| %RSD | .71359 | .31610 | .03515 | .00803 | .08197 | .86895 | .25121 | .22658 | 26.607 |
| #1 | .09378 | .02568 | .14122 | 246.99 | 5.0392 | .02406 | 37.872 | 2.9266 | .00112 |
| #2 | .09284 | .02580 | .14115 | 246.96 | 5.0450 | .02377 | 38.007 | 2.9360 | .00164 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3631** | **.06379** | **12.310** | **.01835** | **.92300** | **.00649** | **.00333** | **1.2960** | **.01704** |
| Stddev | .0102 | .00062 | .013 | .00114 | .00065 | .00065 | .00342 | .0622 | .00077 |
| %RSD | .43095 | .97253 | .10496 | 6.2091 | .07040 | 10.050 | 102.46 | 4.8004 | 4.4987 |
| #1 | 2.3703 | .06336 | 12.301 | .01754 | .92255 | .00603 | .00575 | 1.2520 | .01650 |
| #2 | 2.3559 | .06423 | 12.319 | .01915 | .92346 | .00695 | .00092 | 1.3400 | .01759 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18846** | **.05919** | W **19.693** | **-.00762** | W **-.09356** | **.58687** | **.41525** | **.25201** |
| Stddev | .00023 | .00337 | .287 | .00064 | .04334 | .00163 | .00029 | .00023 |
| %RSD | .12130 | 5.6961 | 1.4554 | 8.3792 | 46.323 | .27837 | .06926 | .09322 |
| #1 | .18830 | .05680 | 19.490 | -.00807 | -.06292 | .58571 | .41504 | .25218 |
| #2 | .18862 | .06157 | 19.895 | -.00717 | -.12421 | .58803 | .41545 | .25184 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6460.7** | **81275.** | **4598.7** |
| Stddev | 8.2 | 65. | 3.3 |
| %RSD | .12724 | .07967 | .07281 |
| #1 | 6466.5 | 81229. | 4601.1 |
| #2 | 6454.9 | 81321. | 4596.4 |

Sample Name: 280-42229-A-9-A Acquired: 5/17/2013 11:45:27 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **42.076** | **.01661** | **-.00009** | **.48465** | **.00061** | **.01927** | **52.315** | **.00135** |
| Stddev | .00017 | .359 | .00005 | .00052 | .00296 | .00012 | .00035 | .381 | .00005 |
| %RSD | 16.802 | .85379 | .31842 | 585.31 | .60987 | 19.429 | 1.8064 | .72763 | 4.0116 |
| #1 | .00116 | 42.330 | .01657 | .00028 | .48674 | .00053 | .01952 | 52.585 | .00139 |
| #2 | .00091 | 41.821 | .01665 | -.00046 | .48256 | .00070 | .01903 | 52.046 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09916** | **.03068** | **.16127** | **243.00** | **5.9454** | **.02865** | **39.351** | **2.8990** | **.00182** |
| Stddev | .00025 | .00008 | .00022 | 1.41 | .0171 | .00214 | .107 | .0043 | .00009 |
| %RSD | .25693 | .24598 | .13938 | .58076 | .28849 | 7.4675 | .27134 | .14753 | 4.7194 |
| #1 | .09898 | .03062 | .16111 | 243.99 | 5.9333 | .02714 | 39.426 | 2.9020 | .00188 |
| #2 | .09934 | .03073 | .16143 | 242.00 | 5.9575 | .03016 | 39.275 | 2.8960 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6433** | **.06757** | **12.068** | **.02054** | **.99672** | **.00737** | **.00313** | **1.4487** | **.01698** |
| Stddev | .0313 | .00069 | .010 | .00018 | .00315 | .00027 | .00289 | .0636 | .00042 |
| %RSD | 1.1852 | 1.0267 | .08249 | .85317 | .31621 | 3.7129 | 92.467 | 4.3880 | 2.4495 |
| #1 | 2.6654 | .06708 | 12.075 | .02042 | .99449 | .00718 | .00517 | 1.4937 | .01727 |
| #2 | 2.6211 | .06806 | 12.061 | .02067 | .99895 | .00757 | .00108 | 1.4038 | .01669 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17913** | **.06044** | W **19.409** | **-.00704** | W **-.08828** | **.58902** | **.40697** | **.23158** |
| Stddev | .00189 | .00223 | .027 | .00007 | .01320 | .00159 | .00171 | .00162 |
| %RSD | 1.0562 | 3.6849 | .13848 | .95498 | 14.953 | .26909 | .42050 | .70102 |
| #1 | .18047 | .05887 | 19.390 | -.00699 | -.09762 | .59015 | .40818 | .23043 |
| #2 | .17779 | .06202 | 19.428 | -.00709 | -.07895 | .58790 | .40576 | .23272 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6497.7** | **82020.** | **4728.6** |
| Stddev | 9.5 | 164. | 46.1 |
| %RSD | .14640 | .20018 | .97411 |
| #1 | 6504.4 | 81904. | 4696.1 |
| #2 | 6490.9 | 82136. | 4761.2 |

Sample Name: 280-42229-A-10-A  Acquired: 5/17/2013 11:47:53  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **45.503** | **.02023** | **-.00082** | **.54385** | **-.00011** | **-.00672** | **54.723** | **.00129** |
| Stddev | .00002 | .065 | .00177 | .00044 | .00023 | .00005 | .00760 | .071 | .00014 |
| %RSD | 1.5421 | .14180 | 8.7584 | 53.195 | .04137 | 46.666 | 113.13 | .12908 | 11.211 |
| #1 | .00117 | 45.457 | .01898 | -.00113 | .54369 | -.00008 | -.00134 | 54.673 | .00139 |
| #2 | .00119 | 45.548 | .02148 | -.00051 | .54401 | -.00015 | -.01209 | 54.773 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11642** | **.04170** | **.14121** | **287.65** | **6.0147** | **.03638** | **51.719** | **3.6208** | **.00212** |
| Stddev | .00070 | .00019 | .00054 | .49 | .0034 | .00029 | .083 | .0036 | .00004 |
| %RSD | .60125 | .45367 | .38584 | .17025 | .05623 | .79615 | .16136 | .09795 | 1.9311 |
| #1 | .11592 | .04157 | .14082 | 287.30 | 6.0171 | .03659 | 51.778 | 3.6233 | .00215 |
| #2 | .11691 | .04184 | .14159 | 287.99 | 6.0123 | .03618 | 51.660 | 3.6183 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5485** | **.09747** | **13.308** | **.02579** | **1.0667** | **.00827** | **.00347** | **1.2063** | **.02055** |
| Stddev | .0028 | .00004 | .008 | .00051 | .0026 | .00007 | .00431 | .0039 | .00131 |
| %RSD | .10976 | .04604 | .05799 | 1.9927 | .24007 | .80791 | 124.16 | .32590 | 6.3608 |
| #1 | 2.5465 | .09750 | 13.303 | .02615 | 1.0685 | .00822 | .00042 | 1.2091 | .02148 |
| #2 | 2.5505 | .09743 | 13.314 | .02543 | 1.0649 | .00832 | .00652 | 1.2035 | .01963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18742** | **.06324** | W **24.112** | **-.00786** | W **-.08032** | **.69502** | **.47108** | **.26567** |
| Stddev | .00009 | .00002 | .339 | .00123 | .03525 | .00084 | .00044 | .00110 |
| %RSD | .04904 | .03338 | 1.4058 | 15.696 | 43.888 | .12115 | .09384 | .41482 |
| #1 | .18748 | .06326 | 24.352 | -.00873 | -.05540 | .69562 | .47076 | .26645 |
| #2 | .18735 | .06323 | 23.872 | -.00699 | -.10525 | .69443 | .47139 | .26489 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6484.0** | **82498.** | **4640.5** |
| Stddev | 7.2 | 513. | 10.6 |
| %RSD | .11057 | .62230 | .22787 |
| #1 | 6478.9 | 82135. | 4633.0 |
| #2 | 6489.0 | 82861. | 4648.0 |

Sample Name: 280-42229-A-11-A  Acquired: 5/17/2013 11:50:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00144** | **48.278** | **.01858** | **-.00005** | **.47685** | **.00006** | **-.00047** | **54.267** | **.00137** |
| Stddev | .00019 | .043 | .00039 | .00037 | .00075 | .00014 | .01170 | .029 | .00015 |
| %RSD | 12.975 | .08938 | 2.1075 | 774.66 | .15634 | 219.93 | 2499.8 | .05297 | 10.866 |
| #1 | .00130 | 48.247 | .01830 | -.00031 | .47632 | -.00004 | -.00874 | 54.287 | .00127 |
| #2 | .00157 | 48.308 | .01886 | .00021 | .47737 | .00016 | .00781 | 54.246 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10618** | **.03692** | **.15178** | **265.37** | **6.0039** | **.03182** | **43.367** | **3.1017** | **.00165** |
| Stddev | .00043 | .00006 | .00014 | .06 | .0182 | .00036 | .080 | .0044 | .00008 |
| %RSD | .40705 | .16323 | .09083 | .02333 | .30401 | 1.1250 | .18339 | .14047 | 4.6877 |
| #1 | .10648 | .03688 | .15187 | 265.33 | 5.9910 | .03207 | 43.424 | 3.1048 | .00170 |
| #2 | .10587 | .03696 | .15168 | 265.41 | 6.0168 | .03157 | 43.311 | 3.0986 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0573** | **.07781** | **13.066** | **.02182** | **.98780** | **.00754** | **.00491** | **1.1997** | **.01821** |
| Stddev | .0043 | .00003 | .003 | .00013 | .00195 | .00068 | .00009 | .0004 | .00095 |
| %RSD | .14009 | .03370 | .02126 | .59114 | .19749 | 9.0311 | 1.9208 | .03664 | 5.2225 |
| #1 | 3.0603 | .07779 | 13.068 | .02173 | .98918 | .00802 | .00484 | 1.2001 | .01753 |
| #2 | 3.0543 | .07783 | 13.064 | .02191 | .98642 | .00706 | .00497 | 1.1994 | .01888 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22074** | **.06066** | W **22.060** | **-.00907** | W **-.07147** | **.65248** | **.44200** | **.26407** |
| Stddev | .00027 | .00151 | .110 | .00089 | .01720 | .00256 | .00167 | .00012 |
| %RSD | .12106 | 2.4878 | .49810 | 9.8536 | 24.073 | .39296 | .37750 | .04511 |
| #1 | .22055 | .05959 | 21.982 | -.00844 | -.08363 | .65429 | .44082 | .26398 |
| #2 | .22092 | .06173 | 22.138 | -.00970 | -.05930 | .65067 | .44318 | .26415 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6549.9** | **82496.** | **4685.9** |
| Stddev | .6 | 149. | 16.4 |
| %RSD | .00906 | .18019 | .34968 |
| #1 | 6550.4 | 82391. | 4697.5 |
| #2 | 6549.5 | 82601. | 4674.3 |

Sample Name: 280-42229-A-12-A  Acquired: 5/17/2013 11:52:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **50.098** | **.02349** | **-.00007** | **.51041** | **-.00017** | **-.00584** | **62.602** | **.00148** |
| Stddev | .00054 | .343 | .00164 | .00001 | .00529 | .00001 | .00251 | .429 | .00005 |
| %RSD | 57.069 | .68397 | 6.9608 | 9.3941 | 1.0357 | 5.9767 | 42.920 | .68522 | 3.4625 |
| #1 | .00057 | 49.856 | .02234 | -.00007 | .50667 | -.00016 | -.00407 | 62.298 | .00152 |
| #2 | .00133 | 50.341 | .02465 | -.00006 | .51415 | -.00017 | -.00762 | 62.905 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12355** | **.05592** | **.15802** | **295.65** | **6.6693** | **.04142** | **55.283** | **3.7507** | **.00201** |
| Stddev | .00083 | .00024 | .00080 | 2.69 | .0052 | .00164 | .007 | .0068 | .00017 |
| %RSD | .66816 | .42466 | .50752 | .91071 | .07804 | 3.9701 | .01194 | .18052 | 8.5902 |
| #1 | .12297 | .05576 | .15745 | 293.74 | 6.6730 | .04258 | 55.288 | 3.7459 | .00213 |
| #2 | .12413 | .05609 | .15859 | 297.55 | 6.6656 | .04026 | 55.279 | 3.7554 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5276** | **.11128** | **13.462** | **.02516** | **1.2336** | **.00842** | **.00880** | **1.6724** | **.02138** |
| Stddev | .0225 | .00017 | .008 | .00164 | .0016 | .00160 | .00355 | .0193 | .00080 |
| %RSD | .88804 | .14879 | .05712 | 6.5278 | .12787 | 19.007 | 40.338 | 1.1571 | 3.7245 |
| #1 | 2.5117 | .11116 | 13.457 | .02400 | 1.2325 | .00729 | .00629 | 1.6587 | .02194 |
| #2 | 2.5434 | .11140 | 13.468 | .02632 | 1.2347 | .00955 | .01132 | 1.6861 | .02082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21808** | **.06842** | F **25.596** | **-.00860** | W **-.07445** | **.72722** | **.48829** | **.26907** |
| Stddev | .00188 | .00060 | .063 | .00131 | .02148 | .00125 | .00212 | .00071 |
| %RSD | .86232 | .87929 | .24437 | 15.262 | 28.849 | .17136 | .43478 | .26274 |
| #1 | .21675 | .06800 | 25.640 | -.00767 | -.05927 | .72811 | .48679 | .26857 |
| #2 | .21941 | .06885 | 25.552 | -.00953 | -.08964 | .72634 | .48979 | .26957 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 25.000 | | 45.000 | | | |
| Low Limit | | | -.02000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6485.5** | **82240.** | **4717.9** |
| Stddev | 9.4 | 247. | 1.3 |
| %RSD | .14520 | .30017 | .02717 |
| #1 | 6492.2 | 82415. | 4717.0 |
| #2 | 6478.9 | 82066. | 4718.8 |

Sample Name: 280-42229-A-13-A  Acquired: 5/17/2013 11:55:16  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00105** | **82.222** | **.03397** | **.00944** | **.65547** | **.00154** | **.01580** | **83.981** | **.00163** |
| Stddev | .00040 | .417 | .00243 | .00010 | .00357 | .00000 | .00629 | .289 | .00007 |
| %RSD | 38.270 | .50705 | 7.1464 | 1.0719 | .54401 | .05501 | 39.813 | .34409 | 4.3850 |
| #1 | .00077 | 82.517 | .03569 | .00951 | .65799 | .00154 | .01135 | 84.185 | .00168 |
| #2 | .00134 | 81.927 | .03225 | .00937 | .65295 | .00154 | .02025 | 83.777 | .00158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09486** | **.11746** | **.17088** | **234.40** | **13.894** | **.07725** | **51.439** | **3.6007** | **.00235** |
| Stddev | .00025 | .00013 | .00047 | .43 | .115 | .00025 | .077 | .0042 | .00018 |
| %RSD | .26545 | .11349 | .27715 | .18223 | .82496 | .32119 | .14972 | .11539 | 7.7420 |
| #1 | .09504 | .11737 | .17054 | 234.10 | 13.975 | .07707 | 51.384 | 3.5977 | .00222 |
| #2 | .09468 | .11756 | .17121 | 234.70 | 13.813 | .07742 | 51.493 | 3.6036 | .00247 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3842** | **.12760** | **9.7727** | **.04593** | **1.4289** | **.00540** | **.00207** | **3.2109** | **.01487** |
| Stddev | .0181 | .00005 | .0159 | .00126 | .0032 | .00184 | .00552 | .0280 | .00011 |
| %RSD | .53446 | .04031 | .16256 | 2.7486 | .22529 | 34.111 | 266.54 | .87148 | .74734 |
| #1 | 3.3969 | .12763 | 9.7839 | .04504 | 1.4311 | .00670 | .00598 | 3.2306 | .01495 |
| #2 | 3.3714 | .12756 | 9.7614 | .04682 | 1.4266 | .00409 | -.00183 | 3.1911 | .01479 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36253** | **.06688** | W **15.712** | **-.00604** | W **-.05375** | **.53724** | **.52235** | **.20167** |
| Stddev | .00171 | .00014 | .153 | .00145 | .02636 | .00048 | .00191 | .00061 |
| %RSD | .47101 | .20974 | .97621 | 24.061 | 49.046 | .08863 | .36559 | .30160 |
| #1 | .36374 | .06698 | 15.604 | -.00501 | -.07239 | .53690 | .52099 | .20124 |
| #2 | .36133 | .06678 | 15.820 | -.00706 | -.03511 | .53758 | .52370 | .20210 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6080.4** | **76788.** | **4401.7** |
| Stddev | 5.8 | 220. | 19.7 |
| %RSD | .09553 | .28637 | .44713 |
| #1 | 6084.5 | 76944. | 4387.8 |
| #2 | 6076.3 | 76633. | 4415.6 |

Sample Name: 280-42229-A-14-A  Acquired: 5/17/2013 11:57:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00134** | **52.203** | **.02202** | **.00312** | **.65264** | **.00076** | **.00531** | **101.89** | **.00156** |
| Stddev | .00002 | .026 | .00208 | .00090 | .00129 | .00004 | .00427 | .12 | .00020 |
| %RSD | 1.3473 | .04964 | 9.4383 | 28.742 | .19791 | 4.7035 | 80.342 | .11508 | 12.707 |
| #1 | .00133 | 52.221 | .02349 | .00248 | .65172 | .00073 | .00833 | 101.97 | .00170 |
| #2 | .00136 | 52.185 | .02055 | .00375 | .65355 | .00078 | .00229 | 101.81 | .00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09551** | **.05747** | **.15811** | **235.87** | **8.2187** | **.04099** | **44.826** | **2.9454** | **.00193** |
| Stddev | .00003 | .00011 | .00058 | .19 | .0024 | .00015 | .144 | .0068 | .00022 |
| %RSD | .03365 | .19409 | .36600 | .08070 | .02911 | .36515 | .32014 | .23211 | 11.141 |
| #1 | .09553 | .05755 | .15770 | 235.74 | 8.2170 | .04110 | 44.724 | 2.9406 | .00208 |
| #2 | .09548 | .05739 | .15852 | 236.01 | 8.2204 | .04089 | 44.927 | 2.9503 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7584** | **.09338** | **13.089** | **.03170** | **1.5295** | **.00541** | **.00631** | **2.4378** | **.01451** |
| Stddev | .0175 | .00023 | .004 | .00007 | .0040 | .00225 | .00035 | .0664 | .00063 |
| %RSD | .63487 | .25155 | .03211 | .22188 | .25825 | 41.538 | 5.5042 | 2.7245 | 4.3727 |
| #1 | 2.7460 | .09321 | 13.086 | .03175 | 1.5267 | .00382 | .00606 | 2.3909 | .01406 |
| #2 | 2.7708 | .09354 | 13.092 | .03165 | 1.5323 | .00700 | .00656 | 2.4848 | .01496 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28618** | **.06299** | W **16.062** | **-.00667** | W **-.08263** | **.51608** | **.45172** | **.22940** |
| Stddev | .00016 | .00278 | .023 | .00067 | .00575 | .00169 | .00070 | .00036 |
| %RSD | .05663 | 4.4068 | .14577 | 10.094 | 6.9575 | .32682 | .15439 | .15605 |
| #1 | .28630 | .06496 | 16.078 | -.00619 | -.07856 | .51489 | .45123 | .22915 |
| #2 | .28607 | .06103 | 16.045 | -.00714 | -.08670 | .51727 | .45221 | .22965 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 45.000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6417.9** | **80790.** | **4597.4** |
| Stddev | 9.8 | 92. | 7.5 |
| %RSD | .15347 | .11418 | .16258 |
| #1 | 6410.9 | 80725. | 4592.2 |
| #2 | 6424.9 | 80855. | 4602.7 |

Sample Name: 280-42229-A-15-A  Acquired: 5/17/2013 12:00:06  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **75.402** | **.03170** | **.00928** | **.72176** | **.00102** | W **-.01465** | **64.112** | **.00143** |
| Stddev | .00083 | .140 | .00055 | .00014 | .00017 | .00007 | .00589 | .077 | .00022 |
| %RSD | 100.22 | .18506 | 1.7215 | 1.4911 | .02329 | 6.5590 | 40.190 | .11951 | 15.434 |
| #1 | .00024 | 75.501 | .03131 | .00938 | .72188 | .00107 | -.01049 | 64.167 | .00159 |
| #2 | .00142 | 75.303 | .03208 | .00918 | .72164 | .00097 | -.01881 | 64.058 | .00128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11641** | **.09248** | **.16977** | **281.47** | **12.056** | **.07433** | **62.819** | **4.1975** | **.00198** |
| Stddev | .00059 | .00012 | .00049 | .27 | .035 | .00039 | .169 | .0920 | .00007 |
| %RSD | .50343 | .12494 | .28710 | .09474 | .28713 | .52868 | .26917 | 2.1907 | 3.4443 |
| #1 | .11599 | .09239 | .16942 | 281.66 | 12.080 | .07461 | 62.938 | 4.2625 | .00203 |
| #2 | .11682 | .09256 | .17011 | 281.29 | 12.031 | .07405 | 62.699 | 4.1325 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.8119** | **.15128** | **11.832** | **.04555** | **.93075** | **.00634** | **.00111** | **2.2886** | **.01775** |
| Stddev | .0133 | .00080 | .010 | .00181 | .00356 | .00087 | .00315 | .0181 | .00023 |
| %RSD | .47257 | .52777 | .08439 | 3.9776 | .38245 | 13.678 | 282.97 | .79018 | 1.3088 |
| #1 | 2.8025 | .15072 | 11.839 | .04427 | .92823 | .00572 | -.00111 | 2.3014 | .01791 |
| #2 | 2.8213 | .15185 | 11.825 | .04684 | .93327 | .00695 | .00334 | 2.2758 | .01758 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25540** | **.08405** | W **21.890** | **-.00886** | F **-.13292** | **.67590** | **.51302** | **.25252** |
| Stddev | .00067 | .00326 | .175 | .00008 | .00114 | .00127 | .00018 | .00215 |
| %RSD | .26224 | 3.8833 | .80037 | .92820 | .85489 | .18742 | .03558 | .85045 |
| #1 | .25587 | .08175 | 22.014 | -.00880 | -.13373 | .67679 | .51315 | .25404 |
| #2 | .25492 | .08636 | 21.766 | -.00891 | -.13212 | .67500 | .51289 | .25100 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | | 50.000 | | | |
| Low Limit | | | -.01000 | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6304.8** | **79061.** | **4450.0** |
| Stddev | 16.4 | 747. | 40.8 |
| %RSD | .26065 | .94489 | .91731 |
| #1 | 6293.1 | 78533. | 4421.1 |
| #2 | 6316.4 | 79590. | 4478.8 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 12:02:37 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **49.787** | **.00014** | **-.00072** | **-.00031** | **-.00003** | **.99755** | **.02275** | **-.00082** | **.00209** | **.00031** | **-.00041** | **49.297** |
| Stddev | .00035 | .101 | .00123 | .00021 | .00079 | .00007 | .00345 | .00402 | .00007 | .00014 | .00011 | .00032 | .083 |
| %RSD | 129.90 | .20214 | 872.63 | 29.865 | 254.18 | 213.13 | .34597 | 17.686 | 9.0233 | 6.6539 | 35.651 | 77.853 | .16895 |
| #1 | .00052 | 49.858 | .00101 | -.00087 | .00025 | .00002 | .99999 | .02559 | -.00087 | .00218 | .00023 | -.00019 | 49.238 |
| #2 | .00002 | 49.716 | -.00073 | -.00057 | -.00087 | -.00009 | .99511 | .01990 | -.00077 | .00199 | .00038 | -.00064 | 49.356 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.23394** | **-.00164** | **.01992** | **.00086** | **-.00161** | **251.97** | **.00153** | **.00952** | **-.00067** | **5.0002** | **.00246** | **.00625** | **.01312** |
| Stddev | .00416 | .00196 | .00376 | .00008 | .00007 | .47 | .00038 | .00164 | .00117 | .0085 | .00180 | .00556 | .01394 |
| %RSD | 1.7782 | 119.76 | 18.862 | 9.5674 | 4.5064 | .18520 | 24.748 | 17.285 | 174.13 | .17033 | 73.225 | 88.972 | 106.25 |
| #1 | -.23100 | -.00303 | .02258 | .00091 | -.00166 | 252.30 | .00180 | .00835 | .00016 | 5.0062 | .00373 | .01018 | .00326 |
| #2 | -.23688 | -.00025 | .01727 | .00080 | -.00156 | 251.64 | .00126 | .01068 | -.00150 | 4.9942 | .00118 | .00232 | .02297 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00055** | **.00037** | **5.0443** | **.00931** | **-.00227** | **10.024** | **.00032** | **.00326** | **-.04139** |
| Stddev | .00064 | .00002 | .0096 | .00010 | .00123 | .029 | .00044 | .00016 | .00212 |
| %RSD | 118.33 | 4.3150 | .19068 | 1.0535 | 54.053 | .29059 | 139.14 | 4.9712 | 5.1267 |
| #1 | -.00009 | .00038 | 5.0375 | .00938 | -.00140 | 10.045 | .00001 | .00315 | -.04289 |
| #2 | -.00100 | .00036 | 5.0511 | .00924 | -.00314 | 10.004 | .00063 | .00338 | -.03989 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5424.7** | **69473.** | **3859.5** |
| Stddev | 30.4 | 122. | 24.5 |
| %RSD | .56065 | .17536 | .63356 |
| #1 | 5446.2 | 69559. | 3842.2 |
| #2 | 5403.2 | 69387. | 3876.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 12:05:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49520** | **.49027** | **.96456** | **.49557** | **.48258** | **.46974** | **.00239** | **4.8814** | **.48704** | **.49724** | **.48474** | **.47807** | **2.4369** |
| Stddev | .00056 | .00089 | .00197 | .00096 | .00290 | .00265 | .00447 | .0077 | .00052 | .00052 | .00112 | .00123 | .0074 |
| %RSD | .11336 | .18184 | .20408 | .19305 | .60075 | .56424 | 187.34 | .15826 | .10737 | .10432 | .23087 | .25778 | .30337 |
| #1 | .49480 | .49090 | .96317 | .49625 | .48463 | .47161 | .00555 | 4.8759 | .48667 | .49688 | .48395 | .47720 | 2.4421 |
| #2 | .49560 | .48964 | .96596 | .49490 | .48053 | .46786 | -.00078 | 4.8868 | .48741 | .49761 | .48553 | .47894 | 2.4316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.392** | **.98264** | **19.515** | **.49163** | **.47757** | **4.5633** | **.49196** | **.98465** | **.98267** | **-.04586** | **.97406** | **.99648** | **4.7929** |
| Stddev | .118 | .00838 | .043 | .00163 | .00050 | .0386 | .00063 | .00282 | .00247 | .00312 | .00075 | .00295 | .0093 |
| %RSD | .23928 | .85328 | .21956 | .33151 | .10523 | .84473 | .12811 | .28688 | .25099 | 6.8125 | .07707 | .29566 | .19496 |
| #1 | 49.476 | .98857 | 19.485 | .49048 | .47793 | 4.5906 | .49152 | .98265 | .98093 | -.04365 | .97353 | .99440 | 4.7995 |
| #2 | 49.309 | .97671 | 19.545 | .49278 | .47722 | 4.5361 | .49241 | .98665 | .98442 | -.04807 | .97459 | .99856 | 4.7863 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95598** | **.49562** | **.00159** | **.48940** | **.96018** | **.01631** | **.48198** | **.49459** | **.48033** |
| Stddev | .00503 | .00179 | .00311 | .00175 | .00328 | .02163 | .00130 | .00226 | .00061 |
| %RSD | .52595 | .36021 | 195.06 | .35760 | .34190 | 132.57 | .26869 | .45736 | .12667 |
| #1 | .95242 | .49688 | -.00060 | .48817 | .95786 | .03160 | .48106 | .49299 | .48076 |
| #2 | .95953 | .49436 | .00379 | .49064 | .96250 | .00102 | .48289 | .49619 | .47990 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5405.8** | **67750.** | **3746.1** |
| Stddev | 28.4 | 357. | 25.4 |
| %RSD | .52605 | .52680 | .67821 |
| #1 | 5426.0 | 68003. | 3728.2 |
| #2 | 5385.7 | 67498. | 3764.1 |

Sample Name: CCB Acquired: 5/17/2013 12:07:14 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.01112** | **.00140** | **-.00070** | W **-.00069** | **.00000** | **.00131** | **.01241** | **.00009** | **.00024** | **-.00004** |
| Stddev | .00067 | .00442 | .00036 | .00034 | .00042 | .00001 | .00100 | .00256 | .00016 | .00009 | .00015 |
| %RSD | 23206. | 39.775 | 25.749 | 49.062 | 60.847 | 185.94 | 76.572 | 20.657 | 176.49 | 37.412 | 398.23 |
| #1 | -.00047 | .00799 | .00165 | -.00046 | -.00098 | -.00000 | .00060 | .01060 | -.00002 | .00030 | -.00015 |
| #2 | .00047 | .01424 | .00114 | -.00094 | -.00039 | .00001 | .00202 | .01423 | .00020 | .00018 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00112** | W **.03741** | **-.15161** | W **-.00350** | **.00625** | F **.00056** | **.00020** | F **-.21929** | **.00016** | **.00535** | **-.00018** |
| Stddev | .00032 | .00101 | .02989 | .00111 | .00049 | .00011 | .00012 | .00531 | .00012 | .00104 | .00212 |
| %RSD | 28.706 | 2.7091 | 19.718 | 31.740 | 7.9164 | 18.882 | 59.323 | 2.4200 | 74.537 | 19.494 | 1193.8 |
| #1 | -.00089 | .03813 | -.17275 | -.00272 | .00660 | .00048 | .00028 | -.22304 | .00008 | .00461 | -.00168 |
| #2 | -.00135 | .03669 | -.13047 | -.00429 | .00590 | .00063 | .00012 | -.21554 | .00025 | .00608 | .00132 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .02200 | | .00261 | | .00051 | | .10000 | | | |
| Low Limit | | -.02200 | | -.00261 | | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04819** | **.00199** | **.00174** | **.00315** | **-.00063** | **.00003** | **.00016** | F **.00357** | **.00014** | **.03078** | **.00080** |
| Stddev | .00420 | .00251 | .00522 | .00655 | .00072 | .00005 | .00074 | .00024 | .00103 | .03063 | .00016 |
| %RSD | 8.7186 | 126.06 | 299.03 | 207.78 | 114.00 | 161.83 | 464.81 | 6.6697 | 747.02 | 99.492 | 20.531 |
| #1 | -.04522 | .00022 | .00543 | -.00148 | -.00114 | -.00000 | .00068 | .00340 | -.00059 | .05244 | .00069 |
| #2 | -.05116 | .00376 | -.00194 | .00778 | -.00012 | .00006 | -.00036 | .00374 | .00087 | .00913 | .00092 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00119 | | | |
| Low Limit | | | | | | | | -.00119 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00288** | W **.00248** |
| Stddev | .00004 | .00045 |
| %RSD | 1.2481 | 18.211 |
| #1 | .00285 | .00279 |
| #2 | .00291 | .00216 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5387.6** | **68067.** | **3691.2** |
| Stddev | 2.4 | 97. | 17.4 |
| %RSD | .04452 | .14267 | .47138 |
| #1 | 5389.3 | 67999. | 3678.9 |
| #2 | 5385.9 | 68136. | 3703.5 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 12:09:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01045** | F **.16533** | **.01502** | **.10220** | **.01006** | **.00090** | **.10826** | F **.26184** | **.00490** | **.01098** | **.01005** |
| Stddev | .00025 | .00150 | .00018 | .00016 | .00041 | .00011 | .00005 | .00210 | .00013 | .00012 | .00020 |
| %RSD | 2.3715 | .90686 | 1.2181 | .15297 | 4.0976 | 12.660 | .05025 | .80166 | 2.6883 | 1.0772 | 1.9802 |
| #1 | .01062 | .16427 | .01515 | .10231 | .01035 | .00082 | .10822 | .26036 | .00481 | .01107 | .00991 |
| #2 | .01027 | .16639 | .01489 | .10209 | .00977 | .00098 | .10830 | .26333 | .00500 | .01090 | .01019 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | .20000 | | | |
| Range | | 30.000% | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01422** | F **.35691** | **2.8509** | F **.00647** | W **.25793** | F **.01374** | **.01951** | W **.78491** | **.04118** | **2.9984** | **.00806** |
| Stddev | .00017 | .00515 | .0405 | .00107 | .00066 | .00008 | .00041 | .00812 | .00006 | .0068 | .00049 |
| %RSD | 1.2273 | 1.4442 | 1.4197 | 16.502 | .25543 | .58433 | 2.1040 | 1.0349 | .13846 | .22793 | 6.1309 |
| #1 | .01410 | .36056 | 2.8795 | .00572 | .25747 | .01380 | .01980 | .77917 | .04114 | 2.9936 | .00771 |
| #2 | .01434 | .35327 | 2.8223 | .00723 | .25840 | .01368 | .01922 | .79065 | .04122 | 3.0032 | .00841 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | .20000 | .01000 | | 1.0000 | | | |
| Range | | 30.000% | | -30.000% | 20.000% | 30.000% | | -20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04290** | **.01181** | W **.01801** | **.46400** | **.09797** | **.01033** | W **.01817** | F **.03220** | **.01657** | **.06389** | **.01064** |
| Stddev | .00316 | .00118 | .00115 | .00076 | .00047 | .00008 | .00064 | .00087 | .00130 | .01256 | .00021 |
| %RSD | 7.3573 | 9.9631 | 6.3782 | .16338 | .47634 | .79373 | 3.5381 | 2.7167 | 7.8743 | 19.661 | 2.0124 |
| #1 | -.04513 | .01264 | .01882 | .46454 | .09830 | .01039 | .01772 | .03282 | .01749 | .07277 | .01079 |
| #2 | -.04067 | .01097 | .01720 | .46347 | .09764 | .01028 | .01863 | .03158 | .01564 | .05501 | .01048 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | .01500 | .01000 | | | |
| Range | | | 20.000% | | | | 20.000% | 30.000% | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02290** | **.01650** |
| Stddev | .00027 | .00134 |
| %RSD | 1.1621 | 8.1302 |
| #1 | .02309 | .01745 |
| #2 | .02271 | .01555 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5584.2** | **70209.** | **3818.8** |
| Stddev | 9.4 | 201. | 57.3 |
| %RSD | .16801 | .28590 | 1.5009 |
| #1 | 5577.6 | 70351. | 3778.3 |
| #2 | 5590.9 | 70067. | 3859.3 |

Sample Name: MB 280-174337/1-A Acquired: 5/17/2013 12:12:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | W **.06207** | **.00011** | **-.00066** | **-.00019** | **-.00006** | **.00174** | **.08686** | **.00007** |
| Stddev | .00026 | .00098 | .00027 | .00058 | .00015 | .00010 | .00052 | .00144 | .00004 |
| %RSD | 103.34 | 1.5749 | 256.64 | 86.813 | 79.538 | 160.56 | 29.731 | 1.6629 | 53.039 |
| #1 | .00007 | .06137 | .00030 | -.00026 | -.00029 | -.00013 | .00137 | .08788 | .00010 |
| #2 | .00044 | .06276 | -.00009 | -.00107 | -.00008 | .00001 | .00211 | .08584 | .00005 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .05000 | | | | | | | |
| Low Limit | | -.05000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00013** | **-.00024** | F **.30352** | **-.15266** | **-.00087** | W **.06202** | **.00385** | **.00036** |
| Stddev | .00011 | .00007 | .00004 | .01129 | .03099 | .00056 | .00232 | .00014 | .00013 |
| %RSD | 35.469 | 59.235 | 18.821 | 3.7204 | 20.301 | 64.132 | 3.7469 | 3.5919 | 35.034 |
| #1 | .00023 | .00007 | -.00027 | .31150 | -.17457 | -.00047 | .06038 | .00375 | .00027 |
| #2 | .00039 | .00018 | -.00021 | .29553 | -.13075 | -.00126 | .06366 | .00395 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | .10000 | | | .05000 | | |
| Low Limit | | | | -.10000 | | | -.05000 | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.08628** | **.00080** | F **.20280** | **-.00007** | **-.03225** | **.00181** | **-.00173** | **.03293** | **-.00020** |
| Stddev | .01089 | .00009 | .00261 | .00125 | .00277 | .00033 | .00083 | .00860 | .00077 |
| %RSD | 12.623 | 11.181 | 1.2888 | 1787.3 | 8.5751 | 18.035 | 47.607 | 26.130 | 376.93 |
| #1 | -.09399 | .00074 | .20465 | -.00095 | -.03420 | .00204 | -.00232 | .03901 | -.00075 |
| #2 | -.07858 | .00087 | .20095 | .00081 | -.03029 | .00158 | -.00115 | .02684 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00263** | F **.02281** | **-.00038** | W **.05262** | **.00065** | **.00208** | **.00342** |
| Stddev | .00006 | .00015 | .00098 | .00115 | .03561 | .00018 | .00009 | .00004 |
| %RSD | 26.095 | 5.6362 | 4.2872 | 302.99 | 67.666 | 26.781 | 4.4290 | 1.1851 |
| #1 | .00019 | .00273 | .02212 | .00043 | .02744 | .00053 | .00202 | .00339 |
| #2 | .00028 | .00252 | .02351 | -.00119 | .07780 | .00078 | .00215 | .00345 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | .05000 | | | |
| Low Limit | | | -.01000 | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5651.7** | **70631.** | **3920.1** |
| Stddev | 33.8 | 221. | 27.2 |
| %RSD | .59737 | .31221 | .69334 |
| #1 | 5627.8 | 70787. | 3900.9 |
| #2 | 5675.6 | 70475. | 3939.3 |

Sample Name: LCS 280-174337/2-A Acquired: 5/17/2013 12:14:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05281** | **1.9312** | **.97474** | **1.0153** | **1.9846** | **.04829** | **2.0311** | **47.797** | **.10110** |
| Stddev | .00004 | .0016 | .00270 | .0004 | .0183 | .00001 | .0025 | .453 | .00004 |
| %RSD | .08445 | .08459 | .27725 | .04329 | .92342 | .01964 | .12480 | .94675 | .04116 |
| #1 | .05278 | 1.9324 | .97665 | 1.0150 | 1.9976 | .04828 | 2.0294 | 48.117 | .10107 |
| #2 | .05284 | 1.9301 | .97283 | 1.0156 | 1.9717 | .04830 | 2.0329 | 47.477 | .10113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49179** | **.19449** | **.24254** | F **1.2160** | **49.407** | **.98388** | **48.368** | **.49080** | **.95886** |
| Stddev | .00071 | .00046 | .00088 | .0015 | .367 | .00701 | .038 | .00005 | .00097 |
| %RSD | .14483 | .23458 | .36091 | .12194 | .74260 | .71292 | .07940 | .01095 | .10078 |
| #1 | .49229 | .19481 | .24316 | 1.2171 | 49.666 | .98884 | 48.395 | .49084 | .95955 |
| #2 | .49128 | .19416 | .24192 | 1.2150 | 49.148 | .97892 | 48.341 | .49077 | .95818 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | | | | | |
| Low Limit | | | | .88000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.736** | **.48350** | **10.257** | **.49001** | **-.03232** | **.50461** | **2.0299** | **9.6344** | **1.9123** |
| Stddev | .524 | .00044 | .007 | .00036 | .00155 | .00035 | .0023 | .0257 | .0077 |
| %RSD | 1.0126 | .09138 | .06379 | .07369 | 4.8027 | .06874 | .11290 | .26678 | .40311 |
| #1 | 52.106 | .48381 | 10.252 | .48975 | -.03342 | .50437 | 2.0315 | 9.6525 | 1.9177 |
| #2 | 51.366 | .48319 | 10.261 | .49026 | -.03122 | .50486 | 2.0282 | 9.6162 | 1.9068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99705** | **1.0235** | **.99721** | **1.9502** | **2.0272** | **.48852** | **.48069** | **.47339** |
| Stddev | .00702 | .0026 | .00042 | .0048 | .0343 | .00025 | .00098 | .00203 |
| %RSD | .70359 | .25525 | .04176 | .24666 | 1.6921 | .05153 | .20451 | .42835 |
| #1 | 1.0020 | 1.0217 | .99691 | 1.9536 | 2.0029 | .48834 | .48139 | .47482 |
| #2 | .99209 | 1.0254 | .99750 | 1.9468 | 2.0514 | .48870 | .48000 | .47195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5511.5** | **69218.** | **3917.2** |
| Stddev | 38.4 | 143. | 18.3 |
| %RSD | .69698 | .20676 | .46734 |
| #1 | 5484.3 | 69117. | 3904.2 |
| #2 | 5538.6 | 69319. | 3930.1 |

Sample Name: 280-42181-H-1-B Acquired: 5/17/2013 12:16:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **.05732** | **.00115** | **.03570** | **.14325** | **-.00012** | **.00036** | **67.647** | **.00010** |
| Stddev | .00008 | .00238 | .00198 | .00045 | .00007 | .00003 | .00038 | .433 | .00001 |
| %RSD | 5.7048 | 4.1446 | 171.88 | 1.2732 | .04576 | 22.534 | 103.34 | .64043 | 10.420 |
| #1 | .00140 | .05900 | .00255 | .03602 | .14330 | -.00010 | .00063 | 67.341 | .00010 |
| #2 | .00130 | .05564 | -.00025 | .03538 | .14321 | -.00014 | .00010 | 67.953 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.01529** | **.00043** | **.24009** | **2.4651** | **-.00017** | **21.069** | **.00358** | **.00212** |
| Stddev | .00001 | .00003 | .00036 | .00419 | .0082 | .00314 | .059 | .00019 | .00017 |
| %RSD | 9.3774 | .20282 | 83.594 | 1.7434 | .33176 | 1850.0 | .28039 | 5.4128 | 8.1786 |
| #1 | .00012 | .01527 | .00018 | .24305 | 2.4709 | .00205 | 21.027 | .00344 | .00200 |
| #2 | .00010 | .01531 | .00069 | .23713 | 2.4593 | -.00239 | 21.111 | .00371 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.621** | **.00230** | **.24272** | **.00124** | **12.464** | **.00254** | **.00556** | **10.456** | **-.00061** |
| Stddev | .244 | .00019 | .00013 | .00015 | .021 | .00213 | .00035 | .007 | .00086 |
| %RSD | 1.2415 | 8.4303 | .05242 | 12.378 | .16892 | 83.726 | 6.2519 | .06385 | 141.76 |
| #1 | 19.793 | .00244 | .24263 | .00135 | 12.449 | .00104 | .00531 | 10.461 | -.00121 |
| #2 | 19.449 | .00217 | .24281 | .00113 | 12.479 | .00404 | .00581 | 10.452 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32556** | **.00261** | **.01772** | **.00111** | **-.01422** | **.00496** | **.00292** | **.00241** |
| Stddev | .00252 | .00044 | .00060 | .00006 | .01555 | .00036 | .00033 | .00001 |
| %RSD | .77346 | 16.878 | 3.3574 | 5.5041 | 109.37 | 7.3361 | 11.460 | .41383 |
| #1 | .32378 | .00230 | .01730 | .00107 | -.02521 | .00470 | .00316 | .00242 |
| #2 | .32734 | .00292 | .01814 | .00115 | -.00322 | .00521 | .00268 | .00241 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5588.2** | **71565.** | **3976.9** |
| Stddev | 12.7 | 145. | 23.2 |
| %RSD | .22643 | .20288 | .58455 |
| #1 | 5597.2 | 71463. | 3993.3 |
| #2 | 5579.3 | 71668. | 3960.4 |

Sample Name: sd 280-42181-H-1-B@5 Acquired: 5/17/2013 12:19:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.04563** | **-.00051** | **.00666** | **.02878** | **-.00007** | **.00332** | **13.829** | **.00018** |
| Stddev | .00040 | .00080 | .00001 | .00120 | .00009 | .00006 | .00137 | .002 | .00009 |
| %RSD | 74.563 | 1.7496 | 2.4371 | 18.059 | .32959 | 88.938 | 41.332 | .01602 | 49.300 |
| #1 | .00082 | .04507 | -.00052 | .00581 | .02884 | -.00002 | .00429 | 13.830 | .00012 |
| #2 | .00025 | .04619 | -.00050 | .00751 | .02871 | -.00011 | .00235 | 13.827 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00317** | **-.00027** | **.19631** | **.35891** | **-.00224** | **4.3657** | **.00268** | **.00059** |
| Stddev | .00040 | .00031 | .00040 | .00307 | .01638 | .00069 | .0138 | .00020 | .00017 |
| %RSD | 376.48 | 9.9352 | 149.57 | 1.5618 | 4.5645 | 30.722 | .31655 | 7.5667 | 28.148 |
| #1 | -.00017 | .00294 | -.00055 | .19414 | .37049 | -.00272 | 4.3755 | .00282 | .00048 |
| #2 | .00038 | .00339 | .00002 | .19848 | .34732 | -.00175 | 4.3559 | .00254 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4879** | **.00086** | **.05752** | **-.00153** | **2.4395** | **.00113** | **.00355** | **2.0871** | **.00024** |
| Stddev | .0165 | .00030 | .00037 | .00064 | .0069 | .00336 | .00150 | .0217 | .00006 |
| %RSD | .47182 | 34.274 | .63477 | 42.029 | .28163 | 297.19 | 42.253 | 1.0408 | 24.059 |
| #1 | 3.4996 | .00107 | .05778 | -.00108 | 2.4444 | -.00124 | .00462 | 2.0717 | .00020 |
| #2 | 3.4763 | .00065 | .05727 | -.00199 | 2.4347 | .00351 | .00249 | 2.1024 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06624** | **.00155** | **.01426** | **-.00041** | **.02038** | **.00170** | **.00392** | **.00358** |
| Stddev | .00014 | .00124 | .00028 | .00140 | .03679 | .00003 | .00002 | .00076 |
| %RSD | .21132 | 79.692 | 1.9340 | 342.42 | 180.53 | 1.4834 | .43651 | 21.073 |
| #1 | .06614 | .00243 | .01446 | .00058 | -.00563 | .00168 | .00394 | .00412 |
| #2 | .06634 | .00068 | .01407 | -.00140 | .04639 | .00172 | .00391 | .00305 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5656.5** | **72289.** | **3986.2** |
| Stddev | 10.4 | 12. | 8.9 |
| %RSD | .18350 | .01690 | .22257 |
| #1 | 5649.1 | 72280. | 3979.9 |
| #2 | 5663.8 | 72297. | 3992.4 |

Sample Name: 280-42181-H-1-C MS Acquired: 5/17/2013 12:21:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05420** | **1.9132** | **1.0032** | **1.0645** | **2.1342** | **.04868** | **2.0733** | **114.65** | **.10315** |
| Stddev | .00036 | .0029 | .0044 | .0020 | .0129 | .00023 | .0072 | .64 | .00013 |
| %RSD | .65688 | .15155 | .44181 | .19106 | .60423 | .47018 | .34520 | .55585 | .12325 |
| #1 | .05395 | 1.9153 | 1.0064 | 1.0659 | 2.1250 | .04884 | 2.0784 | 114.20 | .10324 |
| #2 | .05445 | 1.9112 | 1.0001 | 1.0630 | 2.1433 | .04852 | 2.0682 | 115.10 | .10306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49406** | **.21234** | **.24858** | **1.1057** | **52.508** | **.99984** | **69.521** | **.49073** | **.96870** |
| Stddev | .00163 | .00077 | .00061 | .0011 | .276 | .00519 | .163 | .00089 | .00225 |
| %RSD | .32925 | .36224 | .24686 | .09848 | .52482 | .51889 | .23421 | .18057 | .23229 |
| #1 | .49521 | .21289 | .24815 | 1.1050 | 52.313 | .99617 | 69.636 | .49136 | .97029 |
| #2 | .49291 | .21180 | .24902 | 1.1065 | 52.703 | 1.0035 | 69.406 | .49010 | .96711 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **71.159** | **.48768** | **10.514** | **.49211** | **12.719** | **.50912** | **2.0601** | **19.925** | **1.9225** |
| Stddev | .236 | .00127 | .027 | .00046 | .037 | .00333 | .0056 | .021 | .0016 |
| %RSD | .33205 | .25952 | .25931 | .09420 | .28804 | .65326 | .27260 | .10476 | .08295 |
| #1 | 70.992 | .48857 | 10.534 | .49244 | 12.745 | .51147 | 2.0641 | 19.940 | 1.9236 |
| #2 | 71.327 | .48678 | 10.495 | .49179 | 12.693 | .50677 | 2.0562 | 19.910 | 1.9213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3222** | **1.0266** | **.98746** | **1.9513** | **2.0937** | **.49709** | **.47538** | **.47126** |
| Stddev | .0073 | .0060 | .00202 | .0018 | .0098 | .00125 | .00028 | .00016 |
| %RSD | .55178 | .58101 | .20476 | .09080 | .46942 | .25167 | .05947 | .03475 |
| #1 | 1.3170 | 1.0308 | .98889 | 1.9526 | 2.1006 | .49798 | .47558 | .47115 |
| #2 | 1.3274 | 1.0224 | .98603 | 1.9501 | 2.0867 | .49621 | .47518 | .47138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5410.0** | **69593.** | **3953.9** |
| Stddev | 4.5 | 42. | 12.0 |
| %RSD | .08231 | .06066 | .30238 |
| #1 | 5406.9 | 69563. | 3962.4 |
| #2 | 5413.2 | 69623. | 3945.5 |

Sample Name: 280-42181-H-1-D MSD  Acquired: 5/17/2013 12:23:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05288** | **1.8955** | **.98702** | **1.0574** | **2.1172** | **.04844** | **2.0445** | **112.68** | **.10171** |
| Stddev | .00029 | .0024 | .00173 | .0004 | .0155 | .00003 | .0037 | .82 | .00009 |
| %RSD | .54532 | .12891 | .17531 | .04289 | .73320 | .06910 | .18357 | .72559 | .09242 |
| #1 | .05267 | 1.8938 | .98825 | 1.0578 | 2.1282 | .04847 | 2.0472 | 113.26 | .10177 |
| #2 | .05308 | 1.8972 | .98580 | 1.0571 | 2.1063 | .04842 | 2.0419 | 112.10 | .10164 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48748** | **.20885** | **.24527** | **1.0764** | **51.933** | **.98631** | **68.662** | **.48561** | **.96079** |
| Stddev | .00076 | .00037 | .00088 | .0057 | .308 | .00558 | .007 | .00012 | .00260 |
| %RSD | .15553 | .17520 | .35908 | .53427 | .59217 | .56554 | .01007 | .02432 | .27093 |
| #1 | .48695 | .20859 | .24464 | 1.0723 | 52.150 | .99025 | 68.667 | .48569 | .96263 |
| #2 | .48802 | .20911 | .24589 | 1.0804 | 51.715 | .98237 | 68.657 | .48553 | .95895 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **71.222** | **.47973** | **10.354** | **.48488** | **12.334** | **.50442** | **2.0227** | **19.760** | **1.9055** |
| Stddev | .018 | .00017 | .001 | .00164 | .006 | .00114 | .0039 | .027 | .0024 |
| %RSD | .02573 | .03505 | .00852 | .33876 | .04686 | .22636 | .19158 | .13609 | .12663 |
| #1 | 71.209 | .47985 | 10.355 | .48372 | 12.338 | .50362 | 2.0254 | 19.779 | 1.9072 |
| #2 | 71.234 | .47961 | 10.354 | .48604 | 12.330 | .50523 | 2.0199 | 19.741 | 1.9037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3056** | **1.0128** | **.98166** | **1.9211** | **2.0435** | **.49162** | **.47420** | **.47550** |
| Stddev | .0098 | .0027 | .00088 | .0070 | .0265 | .00060 | .00051 | .00248 |
| %RSD | .75372 | .27087 | .08932 | .36234 | 1.2949 | .12296 | .10748 | .52063 |
| #1 | 1.3126 | 1.0109 | .98104 | 1.9260 | 2.0248 | .49119 | .47456 | .47725 |
| #2 | 1.2987 | 1.0148 | .98228 | 1.9162 | 2.0622 | .49205 | .47384 | .47375 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5391.5** | **68865.** | **3888.9** |
| Stddev | 8.1 | 231. | 8.1 |
| %RSD | .14961 | .33555 | .20945 |
| #1 | 5397.2 | 68701. | 3883.2 |
| #2 | 5385.8 | 69028. | 3894.7 |

Sample Name: 280-42181-H-2-A Acquired: 5/17/2013 12:26:11 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.13275** | **-.00014** | **.01514** | **.05929** | **-.00002** | **-.00023** | **22.884** | **.00020** |
| Stddev | .00014 | .00310 | .00342 | .00038 | .00041 | .00000 | .00182 | .014 | .00015 |
| %RSD | 14.242 | 2.3365 | 2405.9 | 2.5039 | .68317 | 19.592 | 797.10 | .05965 | 76.910 |
| #1 | .00112 | .13494 | .00228 | .01541 | .05957 | -.00002 | .00106 | 22.874 | .00031 |
| #2 | .00091 | .13056 | -.00256 | .01487 | .05900 | -.00003 | -.00151 | 22.893 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.01215** | **.00023** | **.27330** | **2.8992** | **-.00062** | **8.4863** | **.00651** | **.00436** |
| Stddev | .00011 | .00035 | .00029 | .00812 | .0531 | .00106 | .0024 | .00000 | .00007 |
| %RSD | 25.103 | 2.8529 | 124.90 | 2.9718 | 1.8308 | 170.94 | .02845 | .00405 | 1.5179 |
| #1 | .00053 | .01191 | .00003 | .27905 | 2.8616 | -.00137 | 8.4880 | .00651 | .00432 |
| #2 | .00037 | .01240 | .00044 | .26756 | 2.9367 | .00013 | 8.4846 | .00651 | .00441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.4918** | W **9.7292** | **.01307** | **.22252** | **.00136** | **4.6408** | **.00320** | **.00529** | **11.636** |
| Stddev | .0440 | .2135 | .00031 | .00002 | .00092 | .0100 | .00014 | .00025 | .011 |
| %RSD | .51836 | 2.1940 | 2.3772 | .01087 | 67.530 | .21480 | 4.4115 | 4.7590 | .09271 |
| #1 | 8.5229 | 9.5783 | .01329 | .22253 | .00071 | 4.6478 | .00330 | .00547 | 11.628 |
| #2 | 8.4607 | 9.8801 | .01285 | .22250 | .00201 | 4.6337 | .00310 | .00511 | 11.644 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 10.000 | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **.16514** | **.00115** | **.01294** | **-.00009** | **.03714** | **.00724** | **.00498** | **.00417** |
| Stddev | .00005 | .00019 | .00095 | .00027 | .00045 | .02213 | .00013 | .00006 | .00038 |
| %RSD | 14.433 | .11693 | 82.750 | 2.0553 | 528.37 | 59.597 | 1.8019 | 1.1818 | 9.1915 |
| #1 | -.00035 | .16500 | .00182 | .01313 | -.00041 | .05279 | .00733 | .00502 | .00390 |
| #2 | -.00028 | .16528 | .00048 | .01275 | .00024 | .02149 | .00715 | .00493 | .00444 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5573.0** | **71276.** | **3985.0** |
| Stddev | 8.7 | 35. | .4 |
| %RSD | .15642 | .04903 | .01113 |
| #1 | 5579.2 | 71300. | 3984.7 |
| #2 | 5566.8 | 71251. | 3985.3 |

Sample Name: 280-42181-H-3-B Acquired: 5/17/2013 12:28:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.02564** | **.00007** | **.03521** | **.14409** | **-.00001** | **-.00295** | **67.798** | **.00027** |
| Stddev | .00007 | .00063 | .00279 | .00052 | .00079 | .00002 | .00072 | .527 | .00013 |
| %RSD | 10.000 | 2.4633 | 4156.6 | 1.4830 | .55164 | 126.39 | 24.574 | .77693 | 49.142 |
| #1 | .00075 | .02608 | -.00191 | .03484 | .14465 | -.00000 | -.00243 | 68.171 | .00018 |
| #2 | .00065 | .02519 | .00204 | .03558 | .14353 | -.00002 | -.00346 | 67.426 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.01507** | **.00019** | **.10149** | **2.4708** | **-.00022** | **21.212** | **.00168** | **.00197** |
| Stddev | .00005 | .00005 | .00012 | .00070 | .0075 | .00045 | .033 | .00008 | .00005 |
| %RSD | 68.628 | .34876 | 65.659 | .68609 | .30275 | 202.40 | .15557 | 4.9934 | 2.3461 |
| #1 | .00004 | .01511 | .00010 | .10198 | 2.4655 | .00010 | 21.188 | .00174 | .00200 |
| #2 | .00012 | .01504 | .00027 | .10100 | 2.4761 | -.00054 | 21.235 | .00162 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.547** | **.00241** | **.21729** | **.00169** | **12.444** | **.00134** | **.00735** | **10.452** | **-.00146** |
| Stddev | .084 | .00020 | .00063 | .00010 | .008 | .00272 | .00196 | .020 | .00009 |
| %RSD | .43054 | 8.4214 | .29141 | 5.9336 | .06162 | 202.70 | 26.655 | .18746 | 6.2422 |
| #1 | 19.488 | .00255 | .21774 | .00162 | 12.449 | -.00058 | .00874 | 10.466 | -.00153 |
| #2 | 19.607 | .00226 | .21684 | .00176 | 12.438 | .00326 | .00597 | 10.438 | -.00140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32540** | **.00115** | **.00701** | **.00038** | **-.00814** | **.00417** | **.00288** | **.00092** |
| Stddev | .00236 | .00008 | .00020 | .00085 | .01085 | .00066 | .00019 | .00017 |
| %RSD | .72572 | 6.6165 | 2.8850 | 226.73 | 133.32 | 15.716 | 6.5740 | 18.167 |
| #1 | .32707 | .00110 | .00715 | .00098 | -.00047 | .00463 | .00301 | .00080 |
| #2 | .32373 | .00121 | .00686 | -.00023 | -.01581 | .00371 | .00274 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5498.7** | **70104.** | **3937.9** |
| Stddev | 19.6 | 71. | 44.6 |
| %RSD | .35603 | .10104 | 1.1337 |
| #1 | 5512.6 | 70054. | 3906.3 |
| #2 | 5484.9 | 70154. | 3969.5 |

Sample Name: 280-42130-G-1-B Acquired: 5/17/2013 12:31:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.08926** | **.00202** | **.43834** | **.04135** | **-.00017** | **-.00073** | **161.31** | **.00042** |
| Stddev | .00026 | .00334 | .00188 | .00189 | .00051 | .00000 | .00019 | .02 | .00001 |
| %RSD | 46.778 | 3.7439 | 93.092 | .43185 | 1.2246 | 1.1872 | 25.467 | .01538 | 2.6118 |
| #1 | .00074 | .09163 | .00069 | .43700 | .04099 | -.00017 | -.00060 | 161.29 | .00041 |
| #2 | .00037 | .08690 | .00335 | .43968 | .04171 | -.00017 | -.00087 | 161.33 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00096** | **.00139** | **2.6307** | **7.9716** | **.35326** | **151.55** | **.21883** | **.00115** |
| Stddev | .00016 | .00011 | .00003 | .0003 | .0637 | .00165 | .07 | .00021 | .00032 |
| %RSD | 27.572 | 11.629 | 2.2837 | .00952 | .79877 | .46597 | .04907 | .09712 | 28.010 |
| #1 | .00046 | .00104 | .00141 | 2.6308 | 7.9265 | .35210 | 151.60 | .21868 | .00092 |
| #2 | .00069 | .00088 | .00137 | 2.6305 | 8.0166 | .35442 | 151.50 | .21898 | .00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **761.34** | **.01494** | **.26903** | **-.00015** | **324.39** | **.00474** | **.00703** | **9.1770** | **-.00008** |
| Stddev | 1.03 | .00034 | .00254 | .00064 | .34 | .00055 | .00390 | .0346 | .00054 |
| %RSD | .13529 | 2.2529 | .94432 | 432.96 | .10611 | 11.539 | 55.487 | .37699 | 671.58 |
| #1 | 762.07 | .01517 | .27083 | -.00060 | 324.15 | .00513 | .00427 | 9.1526 | .00030 |
| #2 | 760.61 | .01470 | .26724 | .00030 | 324.63 | .00435 | .00979 | 9.2015 | -.00047 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.5249** | **.00024** | **.00615** | **-.00036** | **.09074** | **.00172** | W **15.563** | **.00710** |
| Stddev | .0007 | .00304 | .00004 | .00093 | .03502 | .00008 | .022 | .00060 |
| %RSD | .02006 | 1240.1 | .62049 | 257.49 | 38.588 | 4.8981 | .13949 | 8.5265 |
| #1 | 3.5244 | .00239 | .00618 | .00030 | .06598 | .00178 | 15.578 | .00752 |
| #2 | 3.5254 | -.00190 | .00612 | -.00102 | .11550 | .00166 | 15.548 | .00667 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5172.8** | **66951.** | **3787.8** |
| Stddev | 9.5 | 324. | 8.4 |
| %RSD | .18371 | .48332 | .22152 |
| #1 | 5179.5 | 66722. | 3781.9 |
| #2 | 5166.1 | 67179. | 3793.8 |

Sample Name: 280-42190-B-1-A Acquired: 5/17/2013 12:34:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174337 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00112** | **214.21** | **2.1721** | **.00373** | **.00111** | **.01239** | **.01005** | **159.84** | **.12428** |
| Stddev | .00037 | .14 | .0016 | .00021 | .00028 | .00003 | .00104 | .07 | .00044 |
| %RSD | 33.101 | .06742 | .07483 | 5.5187 | 25.368 | .23029 | 10.312 | .04168 | .35036 |
| #1 | -.00085 | 214.11 | 2.1733 | .00387 | .00091 | .01237 | .00931 | 159.80 | .12458 |
| #2 | -.00138 | 214.31 | 2.1710 | .00358 | .00131 | .01241 | .01078 | 159.89 | .12397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35721** | **.54865** | W **20.277** | W **718.68** | **11.108** | **.39695** | **101.72** | **5.4574** | **.35728** |
| Stddev | .00078 | .00041 | .101 | .96 | .022 | .00117 | .17 | .0607 | .00023 |
| %RSD | .21942 | .07519 | .49598 | .13313 | .19661 | .29528 | .16561 | 1.1122 | .06435 |
| #1 | .35777 | .54895 | 20.206 | 719.36 | 11.092 | .39778 | 101.84 | 5.5003 | .35744 |
| #2 | .35666 | .54836 | 20.348 | 718.00 | 11.123 | .39612 | 101.60 | 5.4145 | .35712 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 10.000 | 500.00 | | | | | |
| Low Limit | | | -.01000 | 40.000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.743** | **.56965** | **34.718** | **.01842** | **924.84** | F **-.02031** | **.01614** | **28.799** | **.00349** |
| Stddev | .034 | .00062 | .056 | .00139 | 2.46 | .00135 | .00361 | .012 | .00013 |
| %RSD | .08956 | .10957 | .16128 | 7.5491 | .26593 | 6.6247 | 22.356 | .04312 | 3.8165 |
| #1 | 37.719 | .57009 | 34.758 | .01743 | 923.11 | -.01936 | .01870 | 28.808 | .00359 |
| #2 | 37.767 | .56921 | 34.679 | .01940 | 926.58 | -.02126 | .01359 | 28.790 | .00340 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 50.000 | | | |
| Low Limit | | | | | | -.02000 | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27159** | **.62200** | **.10658** | F **-.02970** | F **-.23960** | **.31028** | **3.5094** | **.00130** |
| Stddev | .00045 | .00025 | .00033 | .00019 | .00832 | .00064 | .0101 | .00079 |
| %RSD | .16531 | .04046 | .30745 | .63316 | 3.4720 | .20566 | .28866 | 60.865 |
| #1 | .27128 | .62182 | .10635 | -.02956 | -.23372 | .30982 | 3.5022 | .00185 |
| #2 | .27191 | .62218 | .10681 | -.02983 | -.24549 | .31073 | 3.5165 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 20.000 | 50.000 | | | |
| Low Limit | | | | -.02000 | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11601.** | **148730.** | **8911.2** |
| Stddev | 6. | 365. | 39.2 |
| %RSD | .05329 | .24550 | .43970 |
| #1 | 11597. | 148990. | 8883.5 |
| #2 | 11606. | 148470. | 8938.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 12:37:20 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **49.571** | **.00141** | **-.00001** | **-.00046** | **-.00013** | **1.0012** | **.04571** | **-.00077** | **.00171** | **.00015** | **.00308** | **49.305** |
| Stddev | .00013 | .340 | .00218 | .00026 | .00022 | .00010 | .0014 | .00414 | .00010 | .00022 | .00032 | .00062 | .009 |
| %RSD | 30.027 | .68654 | 154.59 | 2186.0 | 48.823 | 75.260 | .13555 | 9.0477 | 12.388 | 12.715 | 219.04 | 20.194 | .01897 |
| #1 | .00033 | 49.331 | .00295 | -.00019 | -.00030 | -.00020 | 1.0022 | .04279 | -.00084 | .00156 | .00038 | .00352 | 49.312 |
| #2 | .00051 | 49.812 | -.00013 | .00017 | -.00062 | -.00006 | 1.0003 | .04864 | -.00070 | .00187 | -.00008 | .00264 | 49.298 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.12003** | **-.00108** | **.03644** | **.00108** | **-.00136** | **252.65** | **.00190** | **.00967** | **.00012** | **5.3146** | **.00344** | **.00648** | **.02584** |
| Stddev | .00865 | .00139 | .00129 | .00011 | .00011 | 1.28 | .00033 | .00326 | .00048 | .1185 | .00066 | .00165 | .02469 |
| %RSD | 7.2063 | 128.08 | 3.5348 | 9.7500 | 8.4416 | .50784 | 17.541 | 33.721 | 384.24 | 2.2300 | 19.225 | 25.517 | 95.521 |
| #1 | -.12615 | -.00206 | .03735 | .00116 | -.00144 | 251.74 | .00214 | .01198 | -.00021 | 5.3984 | .00390 | .00531 | .04330 |
| #2 | -.11391 | -.00010 | .03553 | .00101 | -.00128 | 253.55 | .00167 | .00737 | .00046 | 5.2308 | .00297 | .00765 | .00839 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00063** | **5.0347** | **.00277** | **-.00236** | **10.010** | **-.00010** | **.00545** | **-.04573** |
| Stddev | .00046 | .00007 | .0179 | .00048 | .00001 | .051 | .00114 | .00026 | .00145 |
| %RSD | 616.57 | 10.632 | .35521 | 17.433 | .55785 | .51061 | 1141.5 | 4.7324 | 3.1714 |
| #1 | .00040 | .00067 | 5.0220 | .00242 | -.00235 | 9.9739 | -.00090 | .00563 | -.04470 |
| #2 | -.00025 | .00058 | 5.0473 | .00311 | -.00237 | 10.046 | .00070 | .00527 | -.04675 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5473.3** | **69542.** | **3894.2** |
| Stddev | 17.4 | 16. | 32.7 |
| %RSD | .31840 | .02249 | .83892 |
| #1 | 5485.6 | 69553. | 3917.3 |
| #2 | 5460.9 | 69530. | 3871.1 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 12:39:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49695** | **.48532** | **.96397** | **.50081** | **.48491** | **.46832** | **.00517** | **4.8110** | **.49042** | **.50065** | **.48281** | **.48091** | **2.3643** | **48.917** |
| Stddev | .00178 | .00214 | .00207 | .00189 | .00251 | .00310 | .00420 | .0062 | .00147 | .00109 | .00097 | .00005 | .0048 | .286 |
| %RSD | .35869 | .44172 | .21490 | .37773 | .51804 | .66289 | 81.296 | .12898 | .29982 | .21752 | .20072 | .01117 | .20479 | .58422 |
| #1 | .49569 | .48684 | .96543 | .50215 | .48314 | .46613 | .00220 | 4.8066 | .49146 | .50142 | .48349 | .48095 | 2.3608 | 48.715 |
| #2 | .49821 | .48381 | .96250 | .49948 | .48669 | .47052 | .00814 | 4.8154 | .48938 | .49987 | .48212 | .48088 | 2.3677 | 49.120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98238** | **19.334** | **.49023** | **.47763** | **4.5824** | **.49250** | **.99263** | **.98849** | **.08794** | **.98510** | **1.0076** | **4.7052** | **.95722** | **.49544** |
| Stddev | .00312 | .013 | .00030 | .00138 | .0084 | .00193 | .00405 | .00221 | .00866 | .00494 | .0050 | .0236 | .00363 | .00295 |
| %RSD | .31726 | .06476 | .06095 | .28871 | .18423 | .39214 | .40781 | .22358 | 9.8420 | .50142 | .49244 | .50085 | .37899 | .59640 |
| #1 | .98018 | 19.343 | .49002 | .47861 | 4.5765 | .49387 | .99549 | .99005 | .09406 | .98859 | 1.0111 | 4.6885 | .95979 | .49335 |
| #2 | .98458 | 19.325 | .49044 | .47666 | 4.5884 | .49113 | .98977 | .98692 | .08182 | .98161 | 1.0041 | 4.7218 | .95466 | .49753 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **.48444** | **.96769** | **.01177** | **.48074** | **.48543** | **.47453** |
| Stddev | .00060 | .00129 | .00282 | .00537 | .00080 | .00006 | .00107 |
| %RSD | 36.085 | .26644 | .29124 | 45.584 | .16719 | .01281 | .22616 |
| #1 | .00210 | .48352 | .96968 | .00798 | .48017 | .48547 | .47377 |
| #2 | .00125 | .48535 | .96570 | .01556 | .48130 | .48538 | .47529 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5490.0** | **69050.** | **3871.1** |
| Stddev | 6.0 | 111. | 13.8 |
| %RSD | .10870 | .16090 | .35670 |
| #1 | 5494.2 | 68972. | 3880.8 |
| #2 | 5485.8 | 69129. | 3861.3 |

Sample Name: CCB Acquired: 5/17/2013 12:41:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **.00103** | **-.00182** | **-.00017** | W **-.00064** | **-.00007** | **.00356** | **-.00205** | **-.00005** | **-.00006** | **-.00013** |
| Stddev | .00075 | .00039 | .00046 | .00015 | .00008 | .00009 | .00104 | .00081 | .00017 | .00040 | .00008 |
| %RSD | 85.126 | 38.469 | 25.520 | 86.066 | 13.020 | 140.14 | 29.327 | 39.379 | 313.06 | 643.00 | 61.923 |
| #1 | .00035 | .00075 | -.00149 | -.00007 | -.00069 | -.00013 | .00430 | -.00263 | -.00017 | -.00035 | -.00018 |
| #2 | .00140 | .00131 | -.00215 | -.00028 | -.00058 | -.00000 | .00282 | -.00148 | .00006 | .00022 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.00625** | **-.16369** | **.00052** | **-.00010** | **.00002** | **.00034** | F **-.15128** | **.00042** | **.00121** | **-.00122** |
| Stddev | .00033 | .00384 | .00742 | .00124 | .00027 | .00000 | .00000 | .00223 | .00003 | .00040 | .00119 |
| %RSD | 145.44 | 61.558 | 4.5339 | 239.51 | 260.00 | 22.985 | 1.3724 | 1.4719 | 7.2332 | 32.907 | 97.256 |
| #1 | -.00046 | .00896 | -.16894 | .00139 | -.00029 | .00002 | .00034 | -.14971 | .00044 | .00093 | -.00038 |
| #2 | .00001 | .00353 | -.15844 | -.00036 | .00009 | .00001 | .00033 | -.15286 | .00040 | .00149 | -.00206 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05945** | **.00094** | **.00171** | **-.00779** | **-.00105** | **-.00007** | **.00139** | **.00035** | **.00076** | **.00624** | **.00043** |
| Stddev | .00262 | .00050 | .00167 | .04231 | .00020 | .00014 | .00104 | .00029 | .00134 | .00872 | .00019 |
| %RSD | 4.4108 | 52.915 | 97.251 | 542.88 | 18.966 | 193.00 | 74.811 | 84.128 | 176.01 | 139.79 | 44.495 |
| #1 | .06130 | .00059 | .00054 | .02213 | -.00091 | -.00017 | .00065 | .00014 | .00171 | .01240 | .00030 |
| #2 | .05759 | .00129 | .00289 | -.03771 | -.00119 | .00003 | .00213 | .00056 | -.00019 | .00007 | .00057 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00218** | W **.00358** |
| Stddev | .00018 | .00019 |
| %RSD | 8.1024 | 5.3991 |
| #1 | .00206 | .00372 |
| #2 | .00231 | .00344 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5491.3** | **69226.** | **3790.3** |
| Stddev | 8.0 | 203. | 33.8 |
| %RSD | .14543 | .29349 | .89070 |
| #1 | 5485.7 | 69083. | 3766.4 |
| #2 | 5497.0 | 69370. | 3814.1 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 12:44:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01054** | **.09928** | **.01484** | **.10181** | **.00912** | **.00088** | **.11184** | **.19749** | **.00486** | **.01031** | **.01004** |
| Stddev | .00045 | .00023 | .00070 | .00089 | .00019 | .00000 | .00205 | .00841 | .00003 | .00033 | .00000 |
| %RSD | 4.2841 | .23090 | 4.6922 | .87608 | 2.0945 | .23939 | 1.8319 | 4.2610 | .62730 | 3.2369 | .00357 |
| #1 | .01022 | .09912 | .01533 | .10118 | .00899 | .00088 | .11328 | .19154 | .00488 | .01055 | .01004 |
| #2 | .01085 | .09944 | .01434 | .10244 | .00926 | .00087 | .11039 | .20344 | .00483 | .01008 | .01004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01437** | **.09871** | **2.8920** | W **.00757** | **.19851** | **.01000** | **.01903** | **.81833** | **.04047** | **2.9832** | **.00949** |
| Stddev | .00019 | .00001 | .0310 | .00074 | .00507 | .00006 | .00010 | .01646 | .00008 | .0065 | .00029 |
| %RSD | 1.3000 | .01077 | 1.0730 | 9.7772 | 2.5527 | .63712 | .54173 | 2.0115 | .19470 | .21884 | 3.1087 |
| #1 | .01424 | .09870 | 2.8700 | .00809 | .19493 | .01004 | .01910 | .80670 | .04042 | 2.9785 | .00969 |
| #2 | .01450 | .09871 | 2.9139 | .00705 | .20209 | .00995 | .01896 | .82997 | .04053 | 2.9878 | .00928 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02854** | **.01162** | **.01438** | **.47468** | **.09670** | **.00995** | **.01548** | **.01006** | **.01629** | **.05313** | **.01091** |
| Stddev | .00098 | .00006 | .00073 | .01608 | .00007 | .00002 | .00285 | .00011 | .00052 | .03506 | .00034 |
| %RSD | 3.4235 | .51304 | 5.0814 | 3.3874 | .07130 | .17794 | 18.426 | 1.1053 | 3.2095 | 65.990 | 3.1277 |
| #1 | .02923 | .01166 | .01386 | .46331 | .09675 | .00993 | .01749 | .00998 | .01592 | .02834 | .01115 |
| #2 | .02785 | .01158 | .01489 | .48605 | .09665 | .00996 | .01346 | .01014 | .01666 | .07793 | .01067 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02269** | W **.01845** |
| Stddev | .00011 | .00173 |
| %RSD | .47777 | 9.3573 |
| #1 | .02277 | .01967 |
| #2 | .02261 | .01723 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5681.1** | **71763.** | **3912.6** |
| Stddev | 8.5 | 182. | 21.4 |
| %RSD | .14955 | .25410 | .54748 |
| #1 | 5675.1 | 71892. | 3927.8 |
| #2 | 5687.1 | 71634. | 3897.5 |

Sample Name: MB 280-174334/1-A Acquired: 5/17/2013 12:46:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **.00405** | **.00196** | **-.00096** | **-.00093** | **.00006** | **-.00164** | **.00433** | **-.00011** |
| Stddev | .00029 | .00099 | .00216 | .00008 | .00007 | .00010 | .00052 | .00708 | .00007 |
| %RSD | 70.060 | 24.484 | 110.25 | 8.1450 | 7.5187 | 185.99 | 31.523 | 163.34 | 71.182 |
| #1 | .00021 | .00335 | .00043 | -.00090 | -.00098 | .00013 | -.00127 | .00934 | -.00005 |
| #2 | .00063 | .00475 | .00349 | -.00101 | -.00088 | -.00002 | -.00200 | -.00067 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **-.00015** | **-.00022** | **.00715** | **-.17630** | **-.00236** | **.00023** | **.00009** | **.00048** |
| Stddev | .00008 | .00003 | .00005 | .00121 | .02572 | .00221 | .00118 | .00004 | .00007 |
| %RSD | 189.91 | 16.881 | 23.579 | 16.911 | 14.587 | 93.428 | 511.56 | 41.982 | 13.579 |
| #1 | -.00001 | -.00013 | -.00026 | .00629 | -.15812 | -.00393 | .00106 | .00006 | .00053 |
| #2 | .00010 | -.00017 | -.00019 | .00800 | -.19449 | -.00080 | -.00060 | .00011 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.13601** | **.00033** | F **.13810** | **-.00003** | **.02562** | **.00130** | **.00175** | **.01656** | **-.00129** |
| Stddev | .01087 | .00036 | .00020 | .00091 | .00580 | .00055 | .00185 | .00216 | .00015 |
| %RSD | 7.9890 | 110.38 | .14427 | 2983.9 | 22.648 | 41.857 | 105.28 | 13.045 | 11.343 |
| #1 | -.12833 | .00058 | .13824 | -.00067 | .02152 | .00092 | .00306 | .01809 | -.00119 |
| #2 | -.14369 | .00007 | .13796 | .00061 | .02973 | .00169 | .00045 | .01504 | -.00139 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **-.00078** | **.00024** | **-.00074** | **.01420** | **.00012** | **.00260** | **.00331** |
| Stddev | .00008 | .00137 | .00009 | .00032 | .01743 | .00037 | .00039 | .00127 |
| %RSD | 84.356 | 174.94 | 39.110 | 43.510 | 122.74 | 303.55 | 14.995 | 38.316 |
| #1 | -.00004 | -.00175 | .00030 | -.00051 | .02653 | -.00014 | .00287 | .00421 |
| #2 | -.00016 | .00019 | .00017 | -.00097 | .00188 | .00038 | .00232 | .00241 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5649.2** | **71394.** | **3953.2** |
| Stddev | 6.0 | 96. | 3.3 |
| %RSD | .10598 | .13412 | .08384 |
| #1 | 5653.4 | 71461. | 3950.9 |
| #2 | 5644.9 | 71326. | 3955.6 |

Sample Name: LCS 280-174334/2-A Acquired: 5/17/2013 12:49:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05237** | **1.8838** | **.97573** | **1.0276** | **1.9727** | **.04792** | **2.0302** | **47.383** | **.10126** |
| Stddev | .00039 | .0054 | .00149 | .0007 | .0029 | .00024 | .0029 | .014 | .00018 |
| %RSD | .74518 | .28894 | .15261 | .06958 | .14765 | .50367 | .14396 | .03051 | .18108 |
| #1 | .05265 | 1.8876 | .97468 | 1.0281 | 1.9748 | .04774 | 2.0323 | 47.393 | .10113 |
| #2 | .05210 | 1.8799 | .97678 | 1.0271 | 1.9707 | .04809 | 2.0282 | 47.373 | .10139 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49226** | **.19391** | **.24135** | **.94661** | **49.268** | **.98059** | **48.332** | **.48675** | **.95919** |
| Stddev | .00094 | .00030 | .00078 | .00102 | .073 | .00060 | .324 | .00261 | .00110 |
| %RSD | .19155 | .15476 | .32490 | .10742 | .14841 | .06105 | .66939 | .53522 | .11452 |
| #1 | .49293 | .19370 | .24190 | .94589 | 49.217 | .98101 | 48.561 | .48859 | .95997 |
| #2 | .49160 | .19412 | .24079 | .94733 | 49.320 | .98016 | 48.103 | .48490 | .95842 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.279** | **.48238** | **10.273** | **.48956** | **.01022** | **.50916** | **2.0607** | **9.6125** | **1.9248** |
| Stddev | .449 | .00024 | .011 | .00158 | .00391 | .00273 | .0022 | .0292 | .0018 |
| %RSD | .87521 | .04985 | .10419 | .32317 | 38.284 | .53685 | .10656 | .30379 | .09521 |
| #1 | 51.596 | .48255 | 10.280 | .48844 | .01299 | .51109 | 2.0591 | 9.5919 | 1.9261 |
| #2 | 50.961 | .48221 | 10.265 | .49067 | .00745 | .50722 | 2.0622 | 9.6332 | 1.9235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99329** | **1.0222** | **.97852** | **1.9530** | **2.0483** | **.48677** | **.48134** | **.47160** |
| Stddev | .00149 | .0101 | .00465 | .0011 | .0564 | .00315 | .00252 | .00343 |
| %RSD | .14974 | .98689 | .47476 | .05528 | 2.7554 | .64637 | .52438 | .72821 |
| #1 | .99224 | 1.0293 | .98181 | 1.9538 | 2.0084 | .48899 | .48312 | .46917 |
| #2 | .99435 | 1.0150 | .97524 | 1.9522 | 2.0882 | .48454 | .47955 | .47403 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5486.1** | **69516.** | **3926.1** |
| Stddev | 24.6 | 539. | 13.9 |
| %RSD | .44867 | .77555 | .35475 |
| #1 | 5468.7 | 69135. | 3916.2 |
| #2 | 5503.5 | 69897. | 3935.9 |

Sample Name: 280-42213-G-2-A Acquired: 5/17/2013 12:51:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | W **-.05832** | **.00683** | **.08694** | **.01894** | **-.00019** | **-.00207** | **174.84** | **.00030** |
| Stddev | .00032 | .00191 | .00029 | .00026 | .00069 | .00002 | .00137 | .39 | .00014 |
| %RSD | 32.592 | 3.2823 | 4.3094 | .30360 | 3.6414 | 12.788 | 66.441 | .22404 | 47.321 |
| #1 | .00121 | -.05697 | .00703 | .08712 | .01846 | -.00021 | -.00110 | 174.56 | .00020 |
| #2 | .00076 | -.05967 | .00662 | .08675 | .01943 | -.00018 | -.00304 | 175.11 | .00040 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.7000 | | | | | | | |
| Low Limit | | -.05000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01797** | **.01173** | **.00150** | **94.349** | W **241.15** | **.01858** | **60.922** | **2.2175** | **.00237** |
| Stddev | .00002 | .00000 | .00023 | .494 | .27 | .00157 | .084 | .0013 | .00004 |
| %RSD | .09028 | .03563 | 15.440 | .52358 | .11159 | 8.4723 | .13730 | .05997 | 1.8144 |
| #1 | .01798 | .01173 | .00166 | 94.000 | 240.96 | .01746 | 60.981 | 2.2184 | .00240 |
| #2 | .01796 | .01173 | .00134 | 94.698 | 241.34 | .01969 | 60.863 | 2.2165 | .00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **355.05** | **.07133** | **.43074** | **.00290** | **4.6084** | **.00192** | **.00349** | **21.740** | **.00025** |
| Stddev | .46 | .00035 | .00274 | .00064 | .0077 | .00127 | .00463 | .051 | .00005 |
| %RSD | .13096 | .49541 | .63666 | 22.188 | .16653 | 66.079 | 132.44 | .23246 | 21.015 |
| #1 | 355.38 | .07108 | .42881 | .00335 | 4.6029 | .00102 | .00676 | 21.704 | .00021 |
| #2 | 354.72 | .07158 | .43268 | .00244 | 4.6138 | .00282 | .00022 | 21.776 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3080** | **.01714** | **.00128** | **-.00203** | **.01261** | **.00273** | **.00867** | **.00020** |
| Stddev | .0088 | .00014 | .00029 | .00127 | .00822 | .00003 | .00020 | .00082 |
| %RSD | .26578 | .81571 | 22.913 | 62.382 | 65.234 | 1.0841 | 2.3469 | 411.59 |
| #1 | 3.3018 | .01723 | .00107 | -.00113 | .01842 | .00271 | .00852 | -.00038 |
| #2 | 3.3142 | .01704 | .00149 | -.00292 | .00679 | .00275 | .00881 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5200.9** | **68402.** | **3985.4** |
| Stddev | 5.6 | 302. | 22.2 |
| %RSD | .10811 | .44135 | .55677 |
| #1 | 5204.9 | 68188. | 3969.7 |
| #2 | 5196.9 | 68615. | 4001.1 |

Sample Name: sd 280-42213-G-2-A@5 Acquired: 5/17/2013 12:54:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.00363** | **.00220** | **.01653** | **.00313** | **-.00016** | **.00358** | **34.604** | **-.00005** |
| Stddev | .00029 | .00118 | .00267 | .00026 | .00015 | .00009 | .00141 | .083 | .00000 |
| %RSD | 36.428 | 32.499 | 121.60 | 1.5542 | 4.6603 | 60.639 | 39.270 | .23872 | 6.7202 |
| #1 | .00100 | .00446 | .00031 | .01671 | .00303 | -.00022 | .00259 | 34.663 | -.00004 |
| #2 | .00059 | .00279 | .00408 | .01635 | .00323 | -.00009 | .00457 | 34.546 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00362** | **.00230** | **.00059** | **17.751** | **46.900** | **.00512** | **12.096** | **.43643** | **.00055** |
| Stddev | .00004 | .00005 | .00021 | .046 | .145 | .00038 | .025 | .00039 | .00003 |
| %RSD | 1.0540 | 2.1611 | 36.047 | .25701 | .31008 | 7.3616 | .20992 | .09001 | 6.2268 |
| #1 | .00359 | .00234 | .00044 | 17.783 | 47.003 | .00486 | 12.114 | .43670 | .00052 |
| #2 | .00365 | .00227 | .00074 | 17.719 | 46.797 | .00539 | 12.078 | .43615 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **70.798** | **.01475** | **.08428** | **.00089** | **.88376** | **.00061** | **-.00094** | **4.2566** | **-.00134** |
| Stddev | .663 | .00020 | .00415 | .00242 | .00996 | .00103 | .00177 | .0036 | .00078 |
| %RSD | .93699 | 1.3241 | 4.9272 | 270.99 | 1.1271 | 169.19 | 186.87 | .08402 | 58.586 |
| #1 | 70.329 | .01489 | .08722 | .00260 | .89080 | .00134 | -.00219 | 4.2591 | -.00078 |
| #2 | 71.268 | .01461 | .08135 | -.00082 | .87671 | -.00012 | .00030 | 4.2540 | -.00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64643** | **.00298** | **.00056** | **.00009** | **.02598** | **.00072** | **.00623** | **.00176** |
| Stddev | .00080 | .00019 | .00013 | .00047 | .04756 | .00045 | .00004 | .00050 |
| %RSD | .12425 | 6.4106 | 23.474 | 493.68 | 183.05 | 62.317 | .59850 | 28.327 |
| #1 | .64699 | .00285 | .00046 | .00043 | -.00765 | .00104 | .00620 | .00211 |
| #2 | .64586 | .00312 | .00065 | -.00024 | .05961 | .00040 | .00626 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5423.9** | **68854.** | **3852.0** |
| Stddev | 22.4 | 119. | 9.5 |
| %RSD | .41232 | .17316 | .24641 |
| #1 | 5439.7 | 68769. | 3845.3 |
| #2 | 5408.0 | 68938. | 3858.7 |

Sample Name: 280-42213-G-2-B MS  Acquired: 5/17/2013 12:56:30  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05208** | **1.6958** | **.96883** | **1.0667** | **1.9052** | **.04579** | **1.9625** | **214.89** | **.09912** |
| Stddev | .00047 | .0021 | .00064 | .0008 | .0057 | .00022 | .0024 | 1.34 | .00034 |
| %RSD | .89387 | .12367 | .06593 | .07780 | .30189 | .47391 | .11976 | .62131 | .34535 |
| #1 | .05241 | 1.6943 | .96929 | 1.0662 | 1.9011 | .04594 | 1.9641 | 213.95 | .09887 |
| #2 | .05175 | 1.6972 | .96838 | 1.0673 | 1.9093 | .04563 | 1.9608 | 215.84 | .09936 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48644** | **.19718** | **.23876** | **92.482** | W **283.08** | **.98050** | **104.42** | **2.5916** | **.91834** |
| Stddev | .00052 | .00061 | .00026 | .555 | 2.25 | .00150 | .14 | .0015 | .00176 |
| %RSD | .10784 | .30778 | .10713 | .60002 | .79361 | .15281 | .13588 | .05821 | .19149 |
| #1 | .48607 | .19675 | .23858 | 92.874 | 281.49 | .97944 | 104.32 | 2.5905 | .91710 |
| #2 | .48681 | .19760 | .23894 | 92.089 | 284.66 | .98156 | 104.52 | 2.5926 | .91958 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **392.44** | **.52552** | **10.489** | **.46245** | **4.4022** | **.48703** | **1.9961** | **30.572** | **1.7889** |
| Stddev | .79 | .00057 | .001 | .00010 | .0029 | .00004 | .0017 | .114 | .0027 |
| %RSD | .20252 | .10796 | .00711 | .02223 | .06631 | .00794 | .08738 | .37148 | .15028 |
| #1 | 391.88 | .52512 | 10.490 | .46237 | 4.4043 | .48706 | 1.9949 | 30.492 | 1.7870 |
| #2 | 393.00 | .52592 | 10.489 | .46252 | 4.4001 | .48700 | 1.9974 | 30.652 | 1.7908 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.1755** | **1.0028** | **.93939** | **1.7784** | **2.0218** | **.47038** | **.45639** | **.44953** |
| Stddev | .0269 | .0020 | .00227 | .0024 | .0152 | .00055 | .00248 | .00466 |
| %RSD | .64467 | .19989 | .24132 | .13520 | .75385 | .11616 | .54391 | 1.0356 |
| #1 | 4.1565 | 1.0042 | .93779 | 1.7767 | 2.0325 | .47000 | .45464 | .45282 |
| #2 | 4.1945 | 1.0014 | .94099 | 1.7801 | 2.0110 | .47077 | .45815 | .44624 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5195.7** | **65626.** | **3769.6** |
| Stddev | 11.0 | 31. | 12.1 |
| %RSD | .21233 | .04708 | .32078 |
| #1 | 5203.5 | 65648. | 3778.2 |
| #2 | 5187.9 | 65605. | 3761.1 |

Sample Name: 280-42213-G-2-C MSD Acquired: 5/17/2013 12:58:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05332** | **1.7011** | **.96636** | **1.0812** | **1.9037** | **.04591** | **1.9677** | **215.19** | **.09922** |
| Stddev | .00063 | .0006 | .00010 | .0016 | .0084 | .00013 | .0001 | .22 | .00012 |
| %RSD | 1.1815 | .03809 | .01068 | .14814 | .44411 | .27935 | .00273 | .10377 | .11801 |
| #1 | .05377 | 1.7015 | .96643 | 1.0823 | 1.9096 | .04600 | 1.9678 | 215.35 | .09930 |
| #2 | .05288 | 1.7006 | .96629 | 1.0800 | 1.8977 | .04581 | 1.9677 | 215.03 | .09914 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48673** | **.19729** | **.23975** | **93.308** | W **283.44** | **.97982** | **104.38** | **2.6026** | **.92702** |
| Stddev | .00006 | .00074 | .00045 | .395 | .07 | .00104 | .05 | .0029 | .00021 |
| %RSD | .01327 | .37456 | .18720 | .42283 | .02326 | .10621 | .04744 | .11307 | .02236 |
| #1 | .48669 | .19782 | .24007 | 93.587 | 283.49 | .98056 | 104.41 | 2.6005 | .92717 |
| #2 | .48678 | .19677 | .23944 | 93.029 | 283.39 | .97909 | 104.34 | 2.6047 | .92688 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **394.32** | **.52700** | **10.506** | **.46007** | **4.4202** | **.49277** | **2.0081** | **30.883** | **1.8079** |
| Stddev | 2.11 | .00047 | .007 | .00121 | .0071 | .00034 | .0063 | .048 | .0015 |
| %RSD | .53584 | .08920 | .06657 | .26248 | .16091 | .06912 | .31169 | .15592 | .08061 |
| #1 | 395.82 | .52733 | 10.501 | .45921 | 4.4253 | .49301 | 2.0125 | 30.849 | 1.8069 |
| #2 | 392.83 | .52667 | 10.511 | .46092 | 4.4152 | .49253 | 2.0037 | 30.917 | 1.8090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.1829** | **1.0008** | **.94784** | **1.7780** | **2.0207** | **.46916** | **.45550** | **.45818** |
| Stddev | .0009 | .0017 | .00203 | .0004 | .0222 | .00047 | .00088 | .00049 |
| %RSD | .02084 | .16671 | .21377 | .02388 | 1.0992 | .09913 | .19229 | .10782 |
| #1 | 4.1823 | .99962 | .94641 | 1.7777 | 2.0364 | .46949 | .45488 | .45853 |
| #2 | 4.1835 | 1.0020 | .94927 | 1.7783 | 2.0050 | .46883 | .45612 | .45783 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5185.0** | **66726.** | **3813.2** |
| Stddev | 12.8 | 246. | 17.2 |
| %RSD | .24645 | .36795 | .45187 |
| #1 | 5176.0 | 66900. | 3801.1 |
| #2 | 5194.0 | 66553. | 3825.4 |

Sample Name: 280-42039-A-9-A@5 Acquired: 5/17/2013 13:01:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173661 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **22.471** | **.01021** | **.00931** | **.08953** | **.00102** | **.00602** | **22.720** | **.00027** |
| Stddev | .00007 | .019 | .00064 | .00049 | .00041 | .00015 | .00345 | .048 | .00004 |
| %RSD | 6.5578 | .08255 | 6.2930 | 5.2258 | .46291 | 15.137 | 57.291 | .21095 | 14.320 |
| #1 | .00108 | 22.484 | .00975 | .00965 | .08982 | .00091 | .00358 | 22.754 | .00025 |
| #2 | .00099 | 22.458 | .01066 | .00897 | .08923 | .00113 | .00846 | 22.686 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01609** | **.02881** | **.07839** | **46.400** | **2.9124** | **.03894** | **9.4005** | **2.0213** | **.00187** |
| Stddev | .00018 | .00003 | .00021 | .364 | .0617 | .00149 | .0329 | .0064 | .00039 |
| %RSD | 1.0986 | .10618 | .27165 | .78349 | 2.1173 | 3.8192 | .34990 | .31624 | 20.641 |
| #1 | .01596 | .02879 | .07854 | 46.142 | 2.9560 | .03999 | 9.4238 | 2.0259 | .00215 |
| #2 | .01621 | .02883 | .07824 | 46.657 | 2.8688 | .03788 | 9.3772 | 2.0168 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27218** | **.03584** | **1.2318** | **.01357** | **.20124** | **.00282** | **-.00062** | **.71460** | **.00019** |
| Stddev | .01727 | .00033 | .0046 | .00018 | .00110 | .00011 | .00525 | .01003 | .00063 |
| %RSD | 6.3451 | .92495 | .37150 | 1.3334 | .54757 | 3.7742 | 848.29 | 1.4032 | 327.49 |
| #1 | .28439 | .03561 | 1.2286 | .01369 | .20202 | .00289 | .00309 | .70751 | .00064 |
| #2 | .25996 | .03608 | 1.2351 | .01344 | .20046 | .00274 | -.00433 | .72169 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03233** | **.01792** | **.13533** | **-.00117** | **-.00684** | **.03743** | **.12129** | **.01233** |
| Stddev | .00026 | .00045 | .00232 | .00033 | .00969 | .00004 | .00164 | .00493 |
| %RSD | .80523 | 2.4839 | 1.7122 | 28.193 | 141.62 | .09793 | 1.3506 | 40.003 |
| #1 | .03215 | .01761 | .13697 | -.00093 | .00001 | .03741 | .12244 | .01581 |
| #2 | .03252 | .01824 | .13370 | -.00140 | -.01369 | .03746 | .12013 | .00884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5795.8** | **73258.** | **4085.1** |
| Stddev | 2.7 | 390. | 11.3 |
| %RSD | .04730 | .53249 | .27707 |
| #1 | 5797.8 | 72982. | 4077.1 |
| #2 | 5793.9 | 73534. | 4093.1 |

Sample Name: 280-41981-A-7-A@5 Acquired: 5/17/2013 13:03:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00120** | **36.903** | **.01505** | **.24591** | **.12988** | **.00221** | **-.00134** | **107.43** | **.00194** |
| Stddev | .00010 | .024 | .00038 | .00047 | .00023 | .00000 | .00560 | .07 | .00012 |
| %RSD | 7.9735 | .06500 | 2.5578 | .18916 | .17399 | .12020 | 416.56 | .06333 | 6.2869 |
| #1 | .00127 | 36.886 | .01478 | .24624 | .13004 | .00221 | .00262 | 107.47 | .00202 |
| #2 | .00113 | 36.920 | .01532 | .24558 | .12972 | .00221 | -.00530 | 107.38 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04485** | **.05026** | **.05617** | **79.381** | **12.001** | **.03802** | **21.297** | **1.1585** | **.00261** |
| Stddev | .00022 | .00019 | .00013 | .042 | .065 | .00148 | .008 | .0007 | .00038 |
| %RSD | .48533 | .37354 | .22784 | .05316 | .53883 | 3.8979 | .03693 | .05826 | 14.575 |
| #1 | .04470 | .05012 | .05608 | 79.411 | 12.047 | .03906 | 21.291 | 1.1580 | .00234 |
| #2 | .04501 | .05039 | .05627 | 79.351 | 11.955 | .03697 | 21.302 | 1.1590 | .00288 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.638** | **.09793** | **5.5157** | **.07200** | **21.269** | **.00298** | **.00450** | **15.606** | **.00054** |
| Stddev | .438 | .00008 | .0113 | .00161 | .015 | .00052 | .00131 | .121 | .00045 |
| %RSD | 1.6442 | .07680 | .20438 | 2.2297 | .07217 | 17.300 | 29.198 | .77595 | 82.485 |
| #1 | 26.947 | .09799 | 5.5237 | .07086 | 21.258 | .00335 | .00543 | 15.692 | .00086 |
| #2 | 26.328 | .09788 | 5.5077 | .07313 | 21.280 | .00262 | .00357 | 15.521 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.1625** | **.03807** | **.09692** | **-.00081** | **-.01188** | **.03217** | **.52461** | **.00726** |
| Stddev | .0053 | .00141 | .00070 | .00030 | .05435 | .00029 | .00082 | .00348 |
| %RSD | .10266 | 3.6983 | .72349 | 36.844 | 457.40 | .90313 | .15608 | 47.917 |
| #1 | 5.1663 | .03906 | .09642 | -.00060 | -.05032 | .03196 | .52519 | .00480 |
| #2 | 5.1588 | .03707 | .09741 | -.00102 | .02655 | .03237 | .52403 | .00972 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5576.5** | **70404.** | **4005.4** |
| Stddev | 21.2 | 61. | 20.2 |
| %RSD | .37999 | .08630 | .50497 |
| #1 | 5591.5 | 70361. | 3991.1 |
| #2 | 5561.5 | 70447. | 4019.7 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 13:05:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **49.965** | **.00215** | **.00113** | **-.00052** | **-.00008** | **.99892** | **.01587** | **-.00087** | **.00205** | **-.00002** | **-.00100** | **49.427** |
| Stddev | .00104 | .285 | .00020 | .00037 | .00023 | .00001 | .00073 | .00193 | .00020 | .00006 | .00001 | .00025 | .103 |
| %RSD | 158.56 | .56955 | 9.4096 | 32.691 | 44.112 | 15.514 | .07342 | 12.159 | 23.319 | 3.1354 | 48.013 | 24.573 | .20760 |
| #1 | .00139 | 50.166 | .00229 | .00087 | -.00068 | -.00009 | .99944 | .01451 | -.00073 | .00201 | -.00003 | -.00117 | 49.500 |
| #2 | -.00008 | 49.763 | .00201 | .00139 | -.00035 | -.00007 | .99840 | .01724 | -.00102 | .00210 | -.00001 | -.00083 | 49.355 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08923** | **.00006** | **.02272** | **.00034** | **-.00161** | **254.10** | **.00179** | **.00980** | **.00143** | **5.0515** | **.00399** | **.00709** | **.04838** |
| Stddev | .04938 | .00001 | .00438 | .00014 | .00011 | 2.06 | .00032 | .00010 | .00092 | .0037 | .00400 | .00246 | .03118 |
| %RSD | 55.335 | 11.210 | 19.269 | 42.035 | 6.9020 | .81036 | 17.891 | 1.0604 | 64.631 | .07389 | 100.38 | 34.629 | 64.446 |
| #1 | .05432 | .00006 | .01963 | .00024 | -.00169 | 255.56 | .00157 | .00988 | .00208 | 5.0489 | .00682 | .00535 | .02633 |
| #2 | .12415 | .00007 | .02582 | .00044 | -.00153 | 252.64 | .00202 | .00973 | .00077 | 5.0542 | .00116 | .00883 | .07043 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00074** | **5.1060** | **.00368** | **-.00033** | **10.112** | **-.00062** | **.00386** | **-.05080** |
| Stddev | .00050 | .00008 | .0074 | .00013 | .00071 | .041 | .00042 | .00010 | .00307 |
| %RSD | 112.47 | 11.085 | .14515 | 3.5571 | 216.64 | .40115 | 67.676 | 2.5019 | 6.0418 |
| #1 | .00080 | .00080 | 5.1007 | .00358 | -.00083 | 10.141 | -.00033 | .00393 | -.05297 |
| #2 | .00009 | .00068 | 5.1112 | .00377 | .00017 | 10.083 | -.00092 | .00379 | -.04863 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5452.8** | **68154.** | **3813.6** |
| Stddev | 18.0 | 253. | 28.7 |
| %RSD | .33066 | .37145 | .75216 |
| #1 | 5440.1 | 68333. | 3793.3 |
| #2 | 5465.6 | 67975. | 3833.9 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 13:08:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49773** | **.48891** | **.95594** | **.50106** | **.48567** | **.46435** | **.00457** | **4.8229** | **.48859** | **.49808** | **.47860** | **.47368** | **2.3648** |
| Stddev | .00046 | .00148 | .00312 | .00039 | .00114 | .00128 | .00020 | .0131 | .00082 | .00011 | .00075 | .00128 | .0036 |
| %RSD | .09181 | .30196 | .32684 | .07776 | .23527 | .27672 | 4.3844 | .27133 | .16813 | .02269 | .15575 | .27015 | .15009 |
| #1 | .49805 | .48995 | .95374 | .50133 | .48648 | .46525 | .00471 | 4.8136 | .48917 | .49816 | .47913 | .47277 | 2.3673 |
| #2 | .49741 | .48786 | .95815 | .50078 | .48487 | .46344 | .00442 | 4.8321 | .48801 | .49800 | .47807 | .47458 | 2.3622 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.145** | **.98954** | **19.116** | **.48811** | **.46961** | **4.6613** | **.48695** | **.98179** | **.98109** | **-.01243** | **.98090** | **1.0018** | **4.7177** |
| Stddev | .159 | .00203 | .005 | .00003 | .00106 | .0091 | .00024 | .00349 | .00099 | .00477 | .00097 | .0020 | .0067 |
| %RSD | .32338 | .20491 | .02643 | .00556 | .22640 | .19413 | .04877 | .35533 | .10047 | 38.406 | .09877 | .19947 | .14117 |
| #1 | 49.257 | .99097 | 19.119 | .48813 | .47036 | 4.6677 | .48711 | .98425 | .98179 | -.00906 | .98159 | 1.0032 | 4.7130 |
| #2 | 49.032 | .98811 | 19.112 | .48810 | .46885 | 4.6549 | .48678 | .97932 | .98040 | -.01581 | .98022 | 1.0004 | 4.7224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93888** | **.49929** | **.00105** | **.48436** | **.95536** | **-.00123** | **.47588** | **.48226** | **.47681** |
| Stddev | .00201 | .00116 | .00291 | .00027 | .00229 | .04568 | .00042 | .00121 | .00305 |
| %RSD | .21389 | .23247 | 278.39 | .05578 | .24004 | 3699.0 | .08731 | .25171 | .63921 |
| #1 | .94030 | .50011 | .00310 | .48417 | .95698 | -.03353 | .47559 | .48141 | .47897 |
| #2 | .93746 | .49847 | -.00101 | .48455 | .95374 | .03107 | .47618 | .48312 | .47466 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5550.0** | **69952.** | **3879.7** |
| Stddev | 2.3 | 181. | 17.5 |
| %RSD | .04122 | .25880 | .45199 |
| #1 | 5548.4 | 69824. | 3867.3 |
| #2 | 5551.6 | 70080. | 3892.1 |

Sample Name: CCB Acquired: 5/17/2013 13:10:27 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00107** | W **.02516** | **.00070** | **.00074** | F **-.00116** | **-.00002** | **.00079** | **.01397** | **.00019** | **.00037** | **.00013** |
| Stddev | .00105 | .02982 | .00194 | .00057 | .00018 | .00024 | .00017 | .00176 | .00004 | .00013 | .00009 |
| %RSD | 97.949 | 118.52 | 278.13 | 76.748 | 15.505 | 1540.9 | 20.825 | 12.630 | 21.732 | 34.003 | 72.146 |
| #1 | .00033 | .00407 | -.00067 | .00034 | -.00129 | -.00019 | .00068 | .01522 | .00022 | .00028 | .00006 |
| #2 | .00181 | .04624 | .00207 | .00115 | -.00103 | .00016 | .00091 | .01272 | .00016 | .00046 | .00019 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | .01800 | | | .00115 | | | | | | |
| Low Limit | -.00093 | -.01800 | | | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00089** | **.01196** | **-.00886** | **-.00176** | **.00356** | **.00019** | **.00058** | **-.07186** | **.00045** | **.00536** | **-.00058** |
| Stddev | .00055 | .00274 | .00107 | .00189 | .00104 | .00001 | .00009 | .01120 | .00010 | .00695 | .00237 |
| %RSD | 61.391 | 22.883 | 12.054 | 107.08 | 29.258 | 6.1491 | 15.365 | 15.582 | 23.187 | 129.57 | 412.47 |
| #1 | -.00051 | .01390 | -.00810 | -.00310 | .00282 | .00020 | .00052 | -.06394 | .00038 | .00045 | -.00225 |
| #2 | -.00128 | .01003 | -.00961 | -.00043 | .00430 | .00018 | .00064 | -.07978 | .00052 | .01028 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06306** | **.00246** | **.00281** | **.01351** | **-.00040** | **.00008** | **.00169** | **.00030** | **.00102** | **.01073** | **-.00001** |
| Stddev | .11772 | .00199 | .00119 | .02394 | .00096 | .00011 | .00212 | .00028 | .00046 | .01153 | .00010 |
| %RSD | 186.67 | 80.677 | 42.359 | 177.17 | 240.23 | 135.15 | 125.14 | 93.158 | 45.134 | 107.40 | 2059.1 |
| #1 | -.02018 | .00106 | .00365 | -.00342 | -.00108 | .00016 | .00019 | .00050 | .00069 | .01888 | .00007 |
| #2 | .14630 | .00387 | .00197 | .03045 | .00028 | .00000 | .00319 | .00010 | .00135 | .00258 | -.00008 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00230** | W **.00278** |
| Stddev | .00029 | .00083 |
| %RSD | 12.487 | 29.872 |
| #1 | .00210 | .00219 |
| #2 | .00251 | .00336 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5618.9** | **70875.** | **3925.1** |
| Stddev | 5.2 | 367. | 1.1 |
| %RSD | .09241 | .51848 | .02691 |
| #1 | 5615.2 | 70616. | 3924.3 |
| #2 | 5622.6 | 71135. | 3925.8 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 13:12:57 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01139** | F **.14494** | **.01477** | **.10392** | **.01012** | **.00089** | **.10943** | F **.31725** | **.00493** | **.01099** | **.01026** |
| Stddev | .00023 | .00054 | .00052 | .00066 | .00071 | .00003 | .00056 | .00197 | .00006 | .00004 | .00004 |
| %RSD | 2.0321 | .37232 | 3.5543 | .63160 | 6.9946 | 3.0775 | .50747 | .62065 | 1.1948 | .39572 | .43335 |
| #1 | .01156 | .14532 | .01440 | .10438 | .00962 | .00088 | .10982 | .31586 | .00489 | .01096 | .01029 |
| #2 | .01123 | .14456 | .01514 | .10345 | .01062 | .00091 | .10904 | .31865 | .00497 | .01102 | .01023 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | .20000 | | | |
| Range | | 30.000% | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01607** | F **.25101** | **3.0748** | W **.00774** | F **.26848** | W **.01229** | **.01958** | **1.0653** | **.04119** | **3.0165** | **.00812** |
| Stddev | .00015 | .00445 | .0419 | .00089 | .00376 | .00001 | .00024 | .0013 | .00013 | .0023 | .00164 |
| %RSD | .90244 | 1.7724 | 1.3641 | 11.541 | 1.3997 | .06855 | 1.2113 | .12573 | .30567 | .07748 | 20.168 |
| #1 | .01597 | .25416 | 3.1045 | .00710 | .27114 | .01230 | .01975 | 1.0644 | .04110 | 3.0149 | .00928 |
| #2 | .01617 | .24786 | 3.0451 | .00837 | .26582 | .01228 | .01942 | 1.0663 | .04128 | 3.0182 | .00696 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | .20000 | .01000 | | | | | |
| Range | | 30.000% | | -20.000% | 30.000% | 20.000% | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14076** | W **.01271** | W **.01881** | **.49670** | **.09689** | W **.01240** | W **.01904** | **.01193** | **.01760** | F **.08896** | **.01003** |
| Stddev | .00056 | .00043 | .00428 | .00501 | .00043 | .00020 | .00185 | .00014 | .00014 | .03466 | .00101 |
| %RSD | .39940 | 3.3870 | 22.734 | 1.0077 | .44227 | 1.5877 | 9.7358 | 1.1630 | .82184 | 38.965 | 10.104 |
| #1 | .14036 | .01241 | .02184 | .50024 | .09719 | .01254 | .01773 | .01183 | .01750 | .11347 | .00932 |
| #2 | .14116 | .01302 | .01579 | .49316 | .09658 | .01226 | .02035 | .01203 | .01771 | .06445 | .01075 |
| Check ? | None | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | .01500 | | | .01000 | .01500 | | | .06000 | |
| Range | | 20.000% | 20.000% | | | 20.000% | 20.000% | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02406** | **.01796** |
| Stddev | .00009 | .00174 |
| %RSD | .35338 | 9.7060 |
| #1 | .02412 | .01672 |
| #2 | .02399 | .01919 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5786.1** | **73384.** | **4074.3** |
| Stddev | 2.1 | 176. | 12.6 |
| %RSD | .03560 | .24000 | .30990 |
| #1 | 5787.6 | 73509. | 4083.2 |
| #2 | 5784.7 | 73259. | 4065.3 |

Sample Name: 280-42213-A-3-A  Acquired: 5/17/2013 13:15:21  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00196** | F **-.10026** | **.00663** | **.24819** | **.00158** | **-.00006** | **-.00172** | **185.36** | **.00039** |
| Stddev | .00023 | .00058 | .00120 | .00227 | .00050 | .00005 | .00275 | 1.16 | .00003 |
| %RSD | 11.898 | .57605 | 18.107 | .91407 | 31.664 | 81.949 | 159.40 | .62441 | 7.1520 |
| #1 | .00179 | -.10066 | .00578 | .24979 | .00123 | -.00002 | .00022 | 184.54 | .00041 |
| #2 | .00212 | -.09985 | .00748 | .24658 | .00194 | -.00009 | -.00367 | 186.18 | .00037 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 3.0000 | | | | | | | |
| Low Limit | | -.10000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07939** | **.00917** | **.00052** | **123.75** | F **788.05** | **.01487** | **94.890** | W **11.140** | **.00038** |
| Stddev | .00090 | .00020 | .00040 | .24 | 4.45 | .00344 | .541 | .039 | .00021 |
| %RSD | 1.1314 | 2.2044 | 76.040 | .19045 | .56512 | 23.108 | .57053 | .34615 | 53.711 |
| #1 | .08003 | .00932 | .00024 | 123.58 | 784.90 | .01244 | 95.273 | 11.112 | .00024 |
| #2 | .07876 | .00903 | .00080 | 123.92 | 791.20 | .01730 | 94.507 | 11.167 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 500.00 | | | 10.000 | |
| Low Limit | | | | | -2.0000 | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **320.59** | **.17836** | F **89.027** | **.00383** | **73.973** | **-.00031** | **.00806** | **41.005** | **.00124** |
| Stddev | 1.45 | .00083 | .076 | .00013 | .111 | .00048 | .00236 | .236 | .00150 |
| %RSD | .45076 | .46618 | .08484 | 3.3412 | .15049 | 155.23 | 29.248 | .57543 | 120.66 |
| #1 | 319.56 | .17895 | 89.081 | .00374 | 74.052 | .00003 | .00639 | 40.838 | .00230 |
| #2 | 321.61 | .17777 | 88.974 | .00392 | 73.894 | -.00065 | .00973 | 41.172 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | | | | |
| Low Limit | | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.6421** | **.01845** | **.00055** | W **-.01085** | **-.00601** | **.00143** | **.00480** | **.00052** |
| Stddev | .0296 | .00488 | .00025 | .00066 | .05357 | .00067 | .00023 | .00123 |
| %RSD | .63740 | 26.431 | 44.871 | 6.0560 | 891.08 | 46.515 | 4.8619 | 237.62 |
| #1 | 4.6212 | .01500 | .00038 | -.01132 | .03187 | .00190 | .00496 | .00138 |
| #2 | 4.6630 | .02190 | .00073 | -.01039 | -.04390 | .00096 | .00463 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5243.7** | **67013.** | **3878.6** |
| Stddev | 4.2 | 574. | 36.6 |
| %RSD | .07975 | .85626 | .94410 |
| #1 | 5240.7 | 66607. | 3904.5 |
| #2 | 5246.7 | 67419. | 3852.7 |

Sample Name: 280-42213-A-4-A Acquired: 5/17/2013 13:18:27 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **.08284** | **.00394** | **.35624** | **.04759** | **.00001** | **.00481** | **17.240** | **-.00004** |
| Stddev | .00015 | .00014 | .00005 | .00165 | .00008 | .00001 | .00114 | .010 | .00001 |
| %RSD | 14.600 | .17164 | 1.2742 | .46399 | .16314 | 207.08 | 23.705 | .05639 | 22.529 |
| #1 | .00111 | .08274 | .00397 | .35507 | .04753 | .00002 | .00561 | 17.247 | -.00003 |
| #2 | .00090 | .08294 | .00390 | .35740 | .04764 | -.00000 | .00400 | 17.233 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00171** | **.90512** | **.00285** | **.08158** | **7.6500** | **.01032** | **13.991** | **.00191** | **.01028** |
| Stddev | .00017 | .00236 | .00020 | .00529 | .1035 | .00273 | .008 | .00011 | .00027 |
| %RSD | 9.8839 | .26073 | 7.0947 | 6.4878 | 1.3532 | 26.494 | .05450 | 5.6494 | 2.6021 |
| #1 | .00159 | .90345 | .00299 | .08532 | 7.5768 | .00838 | 13.997 | .00183 | .01010 |
| #2 | .00183 | .90679 | .00271 | .07783 | 7.7232 | .01225 | 13.986 | .00198 | .01047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1389.4** | **.00224** | **.24848** | **.00062** | **106.36** | **.00289** | **.01123** | **4.9634** | **-.00094** |
| Stddev | 3.0 | .00022 | .00234 | .00067 | .35 | .00111 | .00187 | .0235 | .00088 |
| %RSD | .21812 | 9.9171 | .94175 | 107.65 | .33189 | 38.376 | 16.625 | .47311 | 93.591 |
| #1 | 1391.5 | .00239 | .24683 | .00109 | 106.11 | .00367 | .00991 | 4.9468 | -.00032 |
| #2 | 1387.3 | .00208 | .25014 | .00015 | 106.61 | .00210 | .01255 | 4.9800 | -.00156 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43912** | **.00149** | **.00153** | **.00166** | **-.00036** | **.01808** | **.00336** | **.00701** |
| Stddev | .00026 | .00013 | .00021 | .00089 | .00809 | .00046 | .00029 | .00244 |
| %RSD | .05975 | 8.4991 | 13.810 | 53.345 | 2247.7 | 2.5168 | 8.5948 | 34.728 |
| #1 | .43894 | .00140 | .00138 | .00104 | .00536 | .01776 | .00316 | .00873 |
| #2 | .43931 | .00158 | .00168 | .00229 | -.00608 | .01840 | .00357 | .00529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5343.3** | **67835.** | **3950.8** |
| Stddev | 22.3 | 234. | 12.9 |
| %RSD | .41786 | .34493 | .32754 |
| #1 | 5359.1 | 68000. | 3959.9 |
| #2 | 5327.5 | 67670. | 3941.6 |

Sample Name: 280-42213-A-5-A Acquired: 5/17/2013 13:21:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **.06152** | **.00421** | **.00056** | **-.00094** | **-.00007** | **.00432** | **.04629** | **.00016** |
| Stddev | .00058 | .00778 | .00146 | .00023 | .00022 | .00002 | .00094 | .00118 | .00014 |
| %RSD | 41.053 | 12.652 | 34.779 | 40.136 | 23.762 | 32.794 | 21.796 | 2.5463 | 85.370 |
| #1 | .00100 | .06702 | .00317 | .00072 | -.00078 | -.00006 | .00366 | .04713 | .00026 |
| #2 | .00181 | .05602 | .00524 | .00040 | -.00110 | -.00009 | .00499 | .04546 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.00063** | **.00103** | **.04952** | **.52632** | **.00146** | **.09199** | **.00537** | **.00068** |
| Stddev | .00019 | .00014 | .00221 | .00025 | .00188 | .00135 | .08601 | .00523 | .00014 |
| %RSD | 26.546 | 22.155 | 214.69 | .50813 | .35658 | 92.786 | 93.504 | 97.329 | 21.416 |
| #1 | .00057 | .00073 | -.00053 | .04935 | .52499 | .00241 | .03117 | .00168 | .00057 |
| #2 | .00083 | .00053 | .00259 | .04970 | .52764 | .00050 | .15281 | .00907 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49240** | **.00070** | **.18112** | **.00044** | **.25746** | **.00230** | **.00308** | **.03517** | **.00067** |
| Stddev | .01271 | .00022 | .00557 | .00054 | .03438 | .00034 | .00021 | .00244 | .00080 |
| %RSD | 2.5809 | 30.760 | 3.0770 | 124.84 | 13.353 | 14.979 | 6.7928 | 6.9506 | 118.77 |
| #1 | .50138 | .00086 | .18506 | .00005 | .28177 | .00254 | .00293 | .03690 | .00011 |
| #2 | .48341 | .00055 | .17718 | .00082 | .23315 | .00206 | .00323 | .03344 | .00124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.00027** | **.00195** | **.00243** | **.02190** | **.00055** | **.00414** | **.00280** |
| Stddev | .00009 | .00053 | .00167 | .00050 | .02510 | .00006 | .00098 | .00173 |
| %RSD | 10.662 | 199.85 | 85.368 | 20.703 | 114.62 | 10.599 | 23.601 | 61.959 |
| #1 | .00092 | -.00011 | .00077 | .00207 | .00415 | .00050 | .00345 | .00402 |
| #2 | .00079 | .00064 | .00313 | .00278 | .03965 | .00059 | .00484 | .00157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5874.1** | **74477.** | **4138.6** |
| Stddev | 4.5 | 256. | 12.5 |
| %RSD | .07683 | .34342 | .30092 |
| #1 | 5877.3 | 74296. | 4147.4 |
| #2 | 5870.9 | 74658. | 4129.7 |

Sample Name: 280-42213-A-6-A  Acquired: 5/17/2013 13:24:03  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **.00962** | **.00276** | **.12772** | **.01832** | **-.00002** | **.00147** | **110.38** | **-.00009** |
| Stddev | .00089 | .00181 | .00133 | .00078 | .00022 | .00000 | .00392 | .14 | .00004 |
| %RSD | 68.547 | 18.814 | 47.953 | .60811 | 1.2009 | 22.731 | 266.45 | .13022 | 48.584 |
| #1 | .00193 | .00834 | .00183 | .12717 | .01817 | -.00002 | -.00130 | 110.48 | -.00006 |
| #2 | .00067 | .01090 | .00370 | .12827 | .01848 | -.00002 | .00424 | 110.28 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01034** | **.00117** | **.00045** | **16.483** | **33.289** | **.04386** | **28.081** | **2.0577** | **.00651** |
| Stddev | .00051 | .00005 | .00021 | .017 | .145 | .00138 | .070 | .0053 | .00012 |
| %RSD | 4.9432 | 4.0367 | 45.843 | .10010 | .43512 | 3.1577 | .24942 | .25547 | 1.8320 |
| #1 | .00998 | .00121 | .00060 | 16.494 | 33.186 | .04288 | 28.032 | 2.0540 | .00642 |
| #2 | .01070 | .00114 | .00030 | 16.471 | 33.391 | .04483 | 28.131 | 2.0614 | .00659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1517.3** | **.01737** | **.92923** | **-.00033** | **6.5486** | **.00255** | **.00451** | **8.4048** | **-.00096** |
| Stddev | 4.9 | .00011 | .00937 | .00064 | .0293 | .00007 | .00309 | .0143 | .00038 |
| %RSD | .32072 | .60648 | 1.0085 | 191.47 | .44790 | 2.8647 | 68.402 | .17066 | 39.386 |
| #1 | 1520.8 | .01730 | .92261 | -.00078 | 6.5279 | .00260 | .00233 | 8.3946 | -.00122 |
| #2 | 1513.9 | .01745 | .93586 | .00012 | 6.5693 | .00250 | .00669 | 8.4149 | -.00069 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0019** | **.00502** | **.00113** | **.00034** | **.01712** | **.00075** | **.01617** | **.00304** |
| Stddev | .0035 | .00267 | .00033 | .00034 | .03523 | .00030 | .00019 | .00078 |
| %RSD | .17658 | 53.301 | 28.995 | 99.720 | 205.71 | 40.042 | 1.1917 | 25.723 |
| #1 | 2.0044 | .00691 | .00090 | .00058 | -.00778 | .00096 | .01603 | .00359 |
| #2 | 1.9994 | .00313 | .00137 | .00010 | .04203 | .00054 | .01630 | .00248 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5404.8** | **69159.** | **4077.3** |
| Stddev | 50.6 | 401. | 8.2 |
| %RSD | .93687 | .58028 | .20080 |
| #1 | 5440.6 | 69443. | 4071.6 |
| #2 | 5369.0 | 68876. | 4083.1 |

Sample Name: 280-42213-A-7-A Acquired: 5/17/2013 13:27:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.01088** | **.00275** | **.13397** | **.01889** | **.00001** | **.00103** | **114.98** | **-.00012** |
| Stddev | .00047 | .00120 | .00174 | .00007 | .00040 | .00002 | .00163 | .32 | .00013 |
| %RSD | 59.413 | 11.072 | 63.277 | .05504 | 2.1082 | 146.49 | 158.40 | .27519 | 105.45 |
| #1 | .00046 | .01003 | .00152 | .13402 | .01917 | -.00000 | .00218 | 115.21 | -.00021 |
| #2 | .00112 | .01173 | .00397 | .13391 | .01861 | .00003 | -.00012 | 114.76 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01054** | **.00134** | **.00043** | **18.101** | **35.593** | **.04820** | **29.148** | **2.1366** | **.00635** |
| Stddev | .00010 | .00001 | .00020 | .051 | .048 | .00285 | .081 | .0042 | .00012 |
| %RSD | .93681 | .38661 | 47.071 | .28299 | .13429 | 5.9202 | .27811 | .19471 | 1.8260 |
| #1 | .01047 | .00133 | .00029 | 18.137 | 35.627 | .04618 | 29.091 | 2.1337 | .00644 |
| #2 | .01061 | .00134 | .00058 | 18.065 | 35.559 | .05022 | 29.206 | 2.1396 | .00627 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1561.7** | **.01727** | **1.1042** | **.00030** | **6.7397** | **.00237** | **.00287** | **8.8946** | **-.00032** |
| Stddev | 7.8 | .00005 | .0049 | .00063 | .0127 | .00064 | .00157 | .0012 | .00082 |
| %RSD | .50071 | .27424 | .44077 | 211.45 | .18819 | 27.100 | 54.552 | .01381 | 259.35 |
| #1 | 1567.2 | .01724 | 1.1077 | .00074 | 6.7307 | .00282 | .00398 | 8.8954 | .00026 |
| #2 | 1556.1 | .01731 | 1.1008 | -.00015 | 6.7486 | .00192 | .00176 | 8.8937 | -.00090 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0852** | **.00272** | **.00085** | **-.00014** | **.05039** | **.00109** | **.00389** | **.00308** |
| Stddev | .0070 | .00032 | .00026 | .00129 | .01103 | .00012 | .00016 | .00045 |
| %RSD | .33816 | 11.766 | 30.181 | 946.07 | 21.888 | 11.470 | 4.0338 | 14.703 |
| #1 | 2.0902 | .00249 | .00067 | .00077 | .04259 | .00118 | .00400 | .00340 |
| #2 | 2.0802 | .00294 | .00103 | -.00104 | .05819 | .00100 | .00378 | .00276 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5418.4** | **69366.** | **4045.6** |
| Stddev | 3.1 | 71. | 18.1 |
| %RSD | .05783 | .10221 | .44792 |
| #1 | 5420.6 | 69416. | 4032.8 |
| #2 | 5416.2 | 69316. | 4058.4 |

Sample Name: 280-42212-E-3-A Acquired: 5/17/2013 13:30:11 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174334 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00143** | **.00376** | **.00869** | **.06819** | **.03320** | **-.00009** | **.00106** | **100.24** | **.00034** |
| Stddev | .00025 | .00181 | .00065 | .00032 | .00016 | .00002 | .00070 | .29 | .00005 |
| %RSD | 17.797 | 48.222 | 7.5294 | .47494 | .48087 | 20.082 | 65.513 | .28885 | 14.650 |
| #1 | .00125 | .00504 | .00822 | .06797 | .03309 | -.00010 | .00155 | 100.03 | .00037 |
| #2 | .00161 | .00248 | .00915 | .06842 | .03331 | -.00007 | .00057 | 100.44 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05248** | **.00566** | **.00111** | **25.741** | W **344.31** | **.01482** | **89.483** | **.84285** | **.00825** |
| Stddev | .00009 | .00002 | .00022 | .087 | .60 | .00110 | .186 | .00105 | .00013 |
| %RSD | .17852 | .32694 | 19.576 | .33711 | .17494 | 7.4325 | .20767 | .12475 | 1.5387 |
| #1 | .05254 | .00568 | .00126 | 25.680 | 343.88 | .01404 | 89.614 | .84360 | .00816 |
| #2 | .05241 | .00565 | .00096 | 25.803 | 344.74 | .01560 | 89.351 | .84211 | .00834 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **227.32** | **.10290** | **.28563** | **.00183** | **1.8570** | **.00195** | **.00227** | **16.826** | **.00647** |
| Stddev | .37 | .00036 | .00146 | .00003 | .0132 | .00173 | .00000 | .106 | .00070 |
| %RSD | .16487 | .35356 | .51244 | 1.5515 | .71219 | 88.705 | .00931 | .63202 | 10.758 |
| #1 | 227.06 | .10264 | .28666 | .00185 | 1.8664 | .00317 | .00227 | 16.751 | .00696 |
| #2 | 227.59 | .10315 | .28459 | .00181 | 1.8477 | .00073 | .00227 | 16.901 | .00597 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0722** | **.00569** | **.00120** | **.00101** | **.00743** | **.00229** | **.00565** | **.00285** |
| Stddev | .0071 | .00042 | .00016 | .00195 | .01283 | .00040 | .00031 | .00140 |
| %RSD | .34310 | 7.4142 | 13.307 | 193.10 | 172.74 | 17.575 | 5.4869 | 49.220 |
| #1 | 2.0671 | .00599 | .00109 | .00239 | .01650 | .00257 | .00543 | .00385 |
| #2 | 2.0772 | .00539 | .00132 | -.00037 | -.00164 | .00200 | .00587 | .00186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5362.6** | **68865.** | **4055.7** |
| Stddev | 9.4 | 284. | 3.3 |
| %RSD | .17590 | .41255 | .08034 |
| #1 | 5355.9 | 69066. | 4053.4 |
| #2 | 5369.2 | 68664. | 4058.0 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 13:33:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **49.413** | **.00174** | **-.00061** | **.00034** | **-.00012** | **.99240** | **.12452** | **-.00059** | **.00217** | **.00029** | **-.00200** | **48.989** |
| Stddev | .00061 | .397 | .00062 | .00013 | .00056 | .00002 | .00986 | .00762 | .00009 | .00031 | .00005 | .00013 | .195 |
| %RSD | 157.28 | .80296 | 35.485 | 21.378 | 166.62 | 19.865 | .99321 | 6.1218 | 15.874 | 14.479 | 16.328 | 6.3950 | .39824 |
| #1 | .00082 | 49.132 | .00131 | -.00052 | -.00006 | -.00014 | .99937 | .12991 | -.00053 | .00194 | .00033 | -.00210 | 48.851 |
| #2 | -.00004 | 49.693 | .00218 | -.00070 | .00073 | -.00011 | .98543 | .11913 | -.00066 | .00239 | .00026 | -.00191 | 49.127 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0543** | **.00338** | **.05825** | **.00240** | **-.00171** | **253.39** | **.00180** | **.01726** | **-.00032** | **5.0025** | **.00401** | **.00735** | **.02047** |
| Stddev | .0251 | .00080 | .00622 | .00021 | .00029 | 2.17 | .00019 | .00238 | .00007 | .0480 | .00186 | .00040 | .00098 |
| %RSD | 2.3774 | 23.555 | 10.684 | 8.5851 | 17.117 | .85789 | 10.801 | 13.770 | 22.889 | .95927 | 46.336 | 5.3779 | 4.7788 |
| #1 | 1.0366 | .00281 | .06265 | .00255 | -.00150 | 251.85 | .00194 | .01894 | -.00027 | 5.0364 | .00270 | .00763 | .02117 |
| #2 | 1.0720 | .00394 | .05385 | .00226 | -.00191 | 254.92 | .00166 | .01558 | -.00037 | 4.9685 | .00532 | .00707 | .01978 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00297** | **5.0916** | **.00447** | **.00009** | **9.8942** | **-.00020** | **.00380** | **-.05120** |
| Stddev | .00003 | .00005 | .0020 | .00046 | .00078 | .0262 | .00043 | .00001 | .00112 |
| %RSD | 72.403 | 1.7704 | .03912 | 10.205 | 868.98 | .26481 | 215.15 | .31673 | 2.1795 |
| #1 | .00002 | .00301 | 5.0930 | .00480 | .00064 | 9.8757 | -.00051 | .00379 | -.05042 |
| #2 | .00007 | .00293 | 5.0902 | .00415 | -.00046 | 9.9127 | .00010 | .00381 | -.05199 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5546.6** | **70448.** | **3903.9** |
| Stddev | 5.3 | 107. | 20.1 |
| %RSD | .09527 | .15129 | .51601 |
| #1 | 5550.3 | 70524. | 3918.2 |
| #2 | 5542.9 | 70373. | 3889.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 13:35:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50183** | **.50706** | **.95325** | **.50278** | **.48872** | **.46195** | **.00599** | **4.8600** | **.49052** | **.49932** | **.47644** | **.47698** | **2.3735** |
| Stddev | .00039 | .00101 | .00241 | .00144 | .00011 | .00060 | .00005 | .0018 | .00078 | .00329 | .00104 | .00166 | .0153 |
| %RSD | .07750 | .19843 | .25334 | .28700 | .02324 | .13003 | .84391 | .03697 | .15859 | .65913 | .21777 | .34863 | .64588 |
| #1 | .50210 | .50635 | .95154 | .50176 | .48864 | .46238 | .00595 | 4.8587 | .48997 | .49699 | .47570 | .47816 | 2.3844 |
| #2 | .50155 | .50777 | .95496 | .50380 | .48880 | .46153 | .00602 | 4.8612 | .49107 | .50165 | .47717 | .47581 | 2.3627 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.746** | **.98294** | **19.240** | **.49447** | **.46518** | **5.4936** | **.48530** | **1.0015** | **.99027** | **-.00141** | **.99139** | **1.0205** | **4.6379** |
| Stddev | .075 | .00255 | .015 | .00047 | .00122 | .0568 | .00198 | .0016 | .00083 | .00468 | .00121 | .0027 | .0241 |
| %RSD | .15340 | .25963 | .07969 | .09522 | .26288 | 1.0342 | .40873 | .15815 | .08377 | 332.04 | .12225 | .25934 | .52005 |
| #1 | 48.799 | .98474 | 19.251 | .49481 | .46432 | 5.5338 | .48390 | 1.0004 | .99086 | .00190 | .99225 | 1.0223 | 4.6549 |
| #2 | 48.693 | .98113 | 19.230 | .49414 | .46605 | 5.4534 | .48670 | 1.0026 | .98969 | -.00472 | .99053 | 1.0186 | 4.6208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93958** | **.50054** | **.00372** | **.49037** | **.95698** | **.00930** | **.47798** | **.48173** | **.47945** |
| Stddev | .00203 | .00054 | .00130 | .00015 | .00155 | .00020 | .00253 | .00087 | .00051 |
| %RSD | .21635 | .10707 | 34.955 | .03086 | .16205 | 2.1006 | .52844 | .18088 | .10723 |
| #1 | .93815 | .50016 | .00464 | .49048 | .95588 | .00944 | .47977 | .48111 | .47909 |
| #2 | .94102 | .50092 | .00280 | .49026 | .95808 | .00916 | .47620 | .48234 | .47982 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5591.4** | **70133.** | **3922.0** |
| Stddev | 15.3 | 120. | 4.8 |
| %RSD | .27395 | .17108 | .12354 |
| #1 | 5602.2 | 70048. | 3918.6 |
| #2 | 5580.6 | 70218. | 3925.4 |

Sample Name: CCB Acquired: 5/17/2013 13:37:45 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00155** | **.01115** | **.00328** | **-.00019** | **-.00054** | **.00000** | **.00306** | W **.06591** | **-.00006** | **.00029** | **.00012** |
| Stddev | .00027 | .00070 | .00152 | .00043 | .00029 | .00015 | .00067 | .00264 | .00001 | .00031 | .00006 |
| %RSD | 17.614 | 6.2358 | 46.187 | 223.13 | 54.043 | 12316. | 21.983 | 4.0111 | 15.961 | 105.74 | 45.721 |
| #1 | .00136 | .01164 | .00436 | .00011 | -.00033 | .00011 | .00259 | .06778 | -.00007 | .00051 | .00016 |
| #2 | .00175 | .01066 | .00221 | -.00050 | -.00075 | -.00010 | .00354 | .06405 | -.00006 | .00007 | .00008 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | .03450 | | | |
| Low Limit | -.00093 | | | | | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00086** | F **.04843** | F **.57791** | **-.00004** | F **.03431** | F **.00167** | **.00037** | F **.63503** | **.00058** | **.00805** | **.00042** |
| Stddev | .00007 | .00229 | .01541 | .00082 | .00206 | .00011 | .00008 | .04465 | .00001 | .00269 | .00235 |
| %RSD | 8.1932 | 4.7273 | 2.6661 | 1922.4 | 5.9951 | 6.3724 | 20.548 | 7.0315 | 1.5568 | 33.376 | 562.02 |
| #1 | -.00081 | .04681 | .56701 | .00054 | .03576 | .00174 | .00032 | .66661 | .00057 | .00995 | -.00124 |
| #2 | -.00091 | .05005 | .58880 | -.00062 | .03285 | .00159 | .00043 | .60346 | .00059 | .00615 | .00208 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | .25000 | | .02140 | .00051 | | .10000 | | | |
| Low Limit | | -.04400 | -.25000 | | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01585** | **.00149** | **.00065** | **.01664** | **-.00109** | F **.00133** | **.00407** | **.00030** | **-.00048** | **.01351** | **.00081** |
| Stddev | .00407 | .00087 | .00335 | .00645 | .00068 | .00005 | .00204 | .00013 | .00091 | .00198 | .00030 |
| %RSD | 25.692 | 58.323 | 520.10 | 38.740 | 62.389 | 3.9967 | 50.139 | 43.931 | 188.80 | 14.676 | 36.666 |
| #1 | -.01297 | .00088 | .00302 | .02119 | -.00158 | .00137 | .00552 | .00021 | -.00113 | .01211 | .00102 |
| #2 | -.01873 | .00211 | -.00173 | .01208 | -.00061 | .00129 | .00263 | .00040 | .00016 | .01492 | .00060 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00060 | | | | | |
| Low Limit | | | | | | -.00060 | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00296** | W **.00311** |
| Stddev | .00029 | .00044 |
| %RSD | 9.8452 | 14.096 |
| #1 | .00275 | .00280 |
| #2 | .00317 | .00342 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5628.6** | **70717.** | **3840.7** |
| Stddev | 12.9 | 384. | 17.7 |
| %RSD | .22948 | .54240 | .46096 |
| #1 | 5619.5 | 70446. | 3828.2 |
| #2 | 5637.7 | 70988. | 3853.2 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 13:40:15 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01139** | **.10138** | **.01470** | **.10310** | **.00898** | **.00086** | **.10737** | **.22967** | **.00488** | **.01067** | **.00985** |
| Stddev | .00048 | .00036 | .00264 | .00016 | .00016 | .00014 | .00379 | .00469 | .00013 | .00008 | .00004 |
| %RSD | 4.1914 | .35210 | 17.972 | .15370 | 1.8039 | 15.768 | 3.5270 | 2.0424 | 2.5831 | .74242 | .39779 |
| #1 | .01172 | .10113 | .01283 | .10299 | .00887 | .00076 | .10470 | .22635 | .00497 | .01073 | .00982 |
| #2 | .01105 | .10163 | .01657 | .10321 | .00910 | .00095 | .11005 | .23299 | .00479 | .01061 | .00987 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01359** | W **.12167** | **3.3756** | **.00916** | **.20668** | **.01053** | **.01893** | F **1.3422** | **.04055** | **3.0113** | **.00814** |
| Stddev | .00051 | .00400 | .0614 | .00070 | .00891 | .00045 | .00010 | .0115 | .00046 | .0069 | .00023 |
| %RSD | 3.7406 | 3.2900 | 1.8192 | 7.6467 | 4.3117 | 4.2510 | .51682 | .85440 | 1.1354 | .22935 | 2.8675 |
| #1 | .01395 | .12450 | 3.4190 | .00866 | .21298 | .01085 | .01886 | 1.3503 | .04023 | 3.0161 | .00797 |
| #2 | .01323 | .11884 | 3.3322 | .00965 | .20037 | .01022 | .01900 | 1.3341 | .04088 | 3.0064 | .00830 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | 1.0000 | | | |
| Range | | 20.000% | | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04547** | **.01099** | W **.01839** | **.47401** | **.09548** | **.01075** | **.01635** | **.01038** | **.01619** | **.06068** | **.00942** |
| Stddev | .00483 | .00024 | .00236 | .01146 | .00031 | .00009 | .00136 | .00005 | .00127 | .02685 | .00050 |
| %RSD | 10.632 | 2.2068 | 12.820 | 2.4185 | .32181 | .85210 | 8.3470 | .45716 | 7.8373 | 44.245 | 5.2725 |
| #1 | -.04205 | .01116 | .01672 | .48211 | .09526 | .01082 | .01731 | .01035 | .01708 | .07967 | .00977 |
| #2 | -.04888 | .01082 | .02005 | .46590 | .09570 | .01069 | .01538 | .01041 | .01529 | .04170 | .00907 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02270** | W **.01859** |
| Stddev | .00042 | .00298 |
| %RSD | 1.8700 | 16.028 |
| #1 | .02300 | .01648 |
| #2 | .02240 | .02069 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5803.8** | **73040.** | **4013.4** |
| Stddev | 19.6 | 320. | 4.9 |
| %RSD | .33776 | .43814 | .12146 |
| #1 | 5789.9 | 72814. | 4010.0 |
| #2 | 5817.6 | 73266. | 4016.9 |

Sample Name: MB 280-173887/1-A Acquired: 5/17/2013 13:42:39 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.00728** | **.00001** | **-.00088** | **-.00073** | **-.00012** | **.00288** | **.01189** | **.00002** |
| Stddev | .00057 | .00015 | .00066 | .00028 | .00000 | .00022 | .00245 | .00369 | .00005 |
| %RSD | 45.443 | 2.0994 | 11770. | 32.268 | .45122 | 183.27 | 85.072 | 31.070 | 201.63 |
| #1 | .00165 | .00717 | -.00046 | -.00068 | -.00073 | -.00028 | .00115 | .00928 | .00006 |
| #2 | .00085 | .00739 | .00047 | -.00107 | -.00073 | .00004 | .00462 | .01450 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00017** | **-.00079** | W **.03660** | **.33976** | **-.00089** | **.00384** | **.00040** | **.00032** |
| Stddev | .00003 | .00005 | .00011 | .00217 | .01876 | .00060 | .00116 | .00002 | .00002 |
| %RSD | 21.462 | 31.545 | 14.003 | 5.9152 | 5.5204 | 68.287 | 30.317 | 4.3664 | 5.7192 |
| #1 | .00013 | .00021 | -.00087 | .03813 | .35302 | -.00046 | .00467 | .00041 | .00030 |
| #2 | .00018 | .00013 | -.00071 | .03507 | .32650 | -.00131 | .00302 | .00038 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18536** | **.00043** | F **.22662** | **.00094** | **-.03794** | **.00330** | **.00354** | **.03503** | **-.00117** |
| Stddev | .01740 | .00057 | .00029 | .00068 | .00204 | .00227 | .00061 | .02170 | .00080 |
| %RSD | 9.3884 | 130.72 | .12826 | 72.567 | 5.3660 | 68.810 | 17.333 | 61.947 | 68.372 |
| #1 | .17305 | .00084 | .22642 | .00143 | -.03938 | .00169 | .00311 | .05038 | -.00174 |
| #2 | .19766 | .00003 | .22683 | .00046 | -.03650 | .00490 | .00398 | .01969 | -.00061 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00012** | **.00028** | **-.00119** | **.01745** | **.00039** | W **.00627** | **.00100** |
| Stddev | .00001 | .00186 | .00002 | .00074 | .01488 | .00010 | .00006 | .00083 |
| %RSD | 12.644 | 1493.8 | 5.5654 | 61.690 | 85.286 | 24.922 | 1.0311 | 83.237 |
| #1 | -.00005 | .00144 | .00027 | -.00171 | .00692 | .00032 | .00622 | .00041 |
| #2 | -.00006 | -.00119 | .00029 | -.00067 | .02797 | .00046 | .00631 | .00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00500 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5745.8** | **72694.** | **3977.6** |
| Stddev | 6.1 | 199. | 32.5 |
| %RSD | .10692 | .27328 | .81665 |
| #1 | 5741.5 | 72554. | 3954.6 |
| #2 | 5750.2 | 72835. | 4000.5 |

Sample Name: LCS 280-173887/2-A Acquired: 5/17/2013 13:45:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05260** | **1.9281** | **.96754** | **1.0476** | **2.0023** | **.04731** | **2.0288** | **47.184** | **.10120** |
| Stddev | .00020 | .0017 | .00126 | .0008 | .0104 | .00022 | .0054 | .231 | .00012 |
| %RSD | .38714 | .08551 | .13070 | .08128 | .51762 | .47120 | .26528 | .49023 | .12269 |
| #1 | .05246 | 1.9292 | .96843 | 1.0482 | 1.9950 | .04715 | 2.0250 | 47.020 | .10112 |
| #2 | .05274 | 1.9269 | .96664 | 1.0470 | 2.0096 | .04746 | 2.0326 | 47.347 | .10129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49714** | **.19311** | **.23903** | **.94121** | **49.302** | **.98913** | **47.687** | **.48881** | **.96003** |
| Stddev | .00049 | .00006 | .00070 | .00382 | .149 | .00502 | .212 | .00211 | .00265 |
| %RSD | .09854 | .03203 | .29449 | .40578 | .30218 | .50724 | .44472 | .43249 | .27602 |
| #1 | .49679 | .19315 | .23853 | .94392 | 49.196 | .98558 | 47.537 | .48731 | .95816 |
| #2 | .49749 | .19306 | .23953 | .93851 | 49.407 | .99267 | 47.837 | .49030 | .96191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.353** | **.48048** | **10.370** | **.49371** | **-.04436** | **.51238** | **2.0597** | **9.5245** | **1.9185** |
| Stddev | .910 | .00020 | .003 | .00061 | .00204 | .00091 | .0067 | .0325 | .0089 |
| %RSD | 1.7714 | .04173 | .02865 | .12359 | 4.6030 | .17752 | .32613 | .34077 | .46670 |
| #1 | 50.710 | .48034 | 10.372 | .49328 | -.04581 | .51174 | 2.0550 | 9.5015 | 1.9122 |
| #2 | 51.996 | .48062 | 10.368 | .49414 | -.04292 | .51302 | 2.0645 | 9.5474 | 1.9249 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0113** | **1.0347** | **1.0035** | **1.9410** | **2.0662** | **.48226** | **.47676** | **.48139** |
| Stddev | .0035 | .0124 | .0040 | .0055 | .0113 | .00210 | .00284 | .00125 |
| %RSD | .34195 | 1.2029 | .40267 | .28266 | .54610 | .43471 | .59484 | .25968 |
| #1 | 1.0088 | 1.0259 | 1.0006 | 1.9372 | 2.0582 | .48078 | .47476 | .48050 |
| #2 | 1.0137 | 1.0435 | 1.0063 | 1.9449 | 2.0741 | .48374 | .47877 | .48227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5574.0** | **71018.** | **3981.3** |
| Stddev | 10.1 | 296. | 7.7 |
| %RSD | .18060 | .41683 | .19389 |
| #1 | 5581.1 | 71228. | 3986.7 |
| #2 | 5566.8 | 70809. | 3975.8 |

Sample Name: 280-42075-D-1-C Acquired: 5/17/2013 13:47:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **4.3225** | **.04080** | **13.028** | **.60482** | **-.00017** | **-.00113** | **201.33** | **.00236** |
| Stddev | .00007 | .0196 | .00155 | .040 | .00374 | .00001 | .00368 | 1.21 | .00011 |
| %RSD | 7.1413 | .45442 | 3.7925 | .30408 | .61823 | 4.5200 | 325.15 | .60012 | 4.7259 |
| #1 | .00095 | 4.3086 | .04190 | 13.000 | .60218 | -.00017 | -.00374 | 200.48 | .00228 |
| #2 | .00105 | 4.3364 | .03971 | 13.056 | .60747 | -.00018 | .00147 | 202.19 | .00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01066** | **.04662** | **.66750** | **10.048** | F **4411.4** | **.35193** | **339.93** | **6.5509** | **.00330** |
| Stddev | .00024 | .00028 | .00521 | .068 | 673.3 | .01146 | 8.47 | .1064 | .00018 |
| %RSD | 2.2756 | .61105 | .78096 | .68136 | 15.262 | 3.2555 | 2.4912 | 1.6241 | 5.5201 |
| #1 | .01049 | .04641 | .66382 | 9.9995 | 4887.5 | .34383 | 333.94 | 6.6262 | .00343 |
| #2 | .01083 | .04682 | .67119 | 10.096 | 3935.3 | .36003 | 345.92 | 6.4757 | .00318 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **13986.** | **.11545** | **6.0850** | **.07064** | **81.812** | **.00931** | **.00761** | **13.052** | **.00184** |
| Stddev | 321. | .00025 | .0219 | .00097 | .268 | .00097 | .00507 | .169 | .00081 |
| %RSD | 2.2923 | .21251 | .36061 | 1.3722 | .32789 | 10.449 | 66.693 | 1.2960 | 43.868 |
| #1 | 14213. | .11527 | 6.0695 | .06995 | 81.622 | .01000 | .01120 | 13.171 | .00127 |
| #2 | 13760. | .11562 | 6.1005 | .07132 | 82.002 | .00862 | .00402 | 12.932 | .00241 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10000. | | | | | | | | |
| Low Limit | 9.0000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6834** | **.00252** | **.02176** | **-.00546** | **-.01539** | **.01646** | **1.0131** | **.01407** |
| Stddev | .0132 | .00076 | .00083 | .00230 | .02007 | .00018 | .0123 | .00039 |
| %RSD | .78559 | 30.275 | 3.8005 | 42.128 | 130.42 | 1.0999 | 1.2146 | 2.7524 |
| #1 | 1.6740 | .00198 | .02118 | -.00384 | -.00120 | .01633 | 1.0044 | .01379 |
| #2 | 1.6927 | .00305 | .02234 | -.00709 | -.02958 | .01658 | 1.0218 | .01434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **3918.9** | **51448.** | **3624.9** |
| Stddev | 10.2 | 328. | 10.2 |
| %RSD | .26070 | .63688 | .28243 |
| #1 | 3926.1 | 51680. | 3617.7 |
| #2 | 3911.7 | 51216. | 3632.1 |

Sample Name: sd 280-42075-D-1-C@5 Acquired: 5/17/2013 13:51:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.95916** | **.00756** | **2.8707** | **.13198** | **-.00006** | **.00599** | **47.941** | **.00042** |
| Stddev | .00085 | .00041 | .00017 | .0085 | .00023 | .00013 | .00087 | .024 | .00015 |
| %RSD | 311.23 | .04262 | 2.2006 | .29469 | .17301 | 201.47 | 14.504 | .05090 | 36.791 |
| #1 | -.00033 | .95945 | .00768 | 2.8647 | .13214 | .00003 | .00660 | 47.924 | .00031 |
| #2 | .00088 | .95888 | .00744 | 2.8766 | .13182 | -.00015 | .00537 | 47.959 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00263** | **.01089** | **.13812** | **2.3403** | F **1930.8** | **.08038** | **80.510** | **1.4924** | **.00068** |
| Stddev | .00046 | .00023 | .00042 | .0007 | 31.1 | .00059 | .066 | .0046 | .00042 |
| %RSD | 17.554 | 2.0854 | .30353 | .02885 | 1.6111 | .73724 | .08164 | .30540 | 61.161 |
| #1 | .00230 | .01073 | .13783 | 2.3408 | 1952.8 | .07996 | 80.463 | 1.4892 | .00098 |
| #2 | .00296 | .01105 | .13842 | 2.3398 | 1908.8 | .08080 | 80.556 | 1.4956 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3161.8** | **.02739** | **1.2884** | **.01476** | **16.685** | **.00122** | **.00061** | **2.6390** | **.00020** |
| Stddev | 1.7 | .00022 | .0014 | .00012 | .030 | .00017 | .00513 | .0019 | .00054 |
| %RSD | .05374 | .81322 | .11253 | .80050 | .18095 | 14.178 | 838.67 | .07383 | 267.97 |
| #1 | 3163.0 | .02755 | 1.2874 | .01468 | 16.664 | .00135 | -.00301 | 2.6376 | -.00018 |
| #2 | 3160.6 | .02724 | 1.2894 | .01484 | 16.706 | .00110 | .00424 | 2.6404 | .00058 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37399** | **.00041** | **.00548** | **-.00057** | **.00496** | **.00460** | **.23704** | **.00176** |
| Stddev | .00019 | .00369 | .00007 | .00213 | .03038 | .00032 | .00189 | .00096 |
| %RSD | .05129 | 888.95 | 1.2285 | 375.74 | 612.99 | 6.9447 | .79754 | 54.679 |
| #1 | .37412 | -.00219 | .00543 | .00094 | .02643 | .00482 | .23571 | .00108 |
| #2 | .37385 | .00302 | .00553 | -.00208 | -.01652 | .00437 | .23838 | .00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4755.3** | **59898.** | **3525.7** |
| Stddev | 37.2 | 1. | 14.3 |
| %RSD | .78224 | .00163 | .40545 |
| #1 | 4729.0 | 59897. | 3535.8 |
| #2 | 4781.6 | 59898. | 3515.6 |

Sample Name: 280-42075-D-1-D MS  Acquired: 5/17/2013 13:54:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05079** | **5.6259** | **.84766** | **12.730** | **2.0225** | **.03188** | **1.7584** | **220.56** | **.09264** |
| Stddev | .00000 | .1240 | .00241 | .004 | .0468 | .00092 | .0056 | 4.64 | .00022 |
| %RSD | .00602 | 2.2044 | .28400 | .03418 | 2.3158 | 2.8801 | .31699 | 2.1038 | .23615 |
| #1 | .05078 | 5.7136 | .84936 | 12.726 | 2.0556 | .03253 | 1.7545 | 223.84 | .09248 |
| #2 | .05079 | 5.5382 | .84596 | 12.733 | 1.9894 | .03123 | 1.7624 | 217.28 | .09279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33796** | **.17473** | **.79602** | **10.057** | F **3362.6** | **1.1609** | **344.32** | **6.2842** | **.67755** |
| Stddev | .00035 | .00022 | .00098 | .173 | 395.2 | .0259 | 5.44 | .0397 | .00064 |
| %RSD | .10285 | .12868 | .12289 | 1.7202 | 11.752 | 2.2313 | 1.5812 | .63149 | .09486 |
| #1 | .33772 | .17488 | .79533 | 10.179 | 3642.0 | 1.1793 | 348.17 | 6.3123 | .67710 |
| #2 | .33821 | .17457 | .79672 | 9.9343 | 3083.2 | 1.1426 | 340.47 | 6.2562 | .67801 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **13707.** | **.41753** | **13.764** | **.40169** | **79.774** | **.40517** | **1.3322** | **11.715** | **1.2977** |
| Stddev | 280. | .00145 | .015 | .00147 | .048 | .00127 | .0018 | .161 | .0001 |
| %RSD | 2.0449 | .34745 | .11131 | .36525 | .06077 | .31328 | .13459 | 1.3780 | .00918 |
| #1 | 13905. | .41856 | 13.774 | .40273 | 79.809 | .40606 | 1.3335 | 11.829 | 1.2976 |
| #2 | 13509. | .41650 | 13.753 | .40065 | 79.740 | .40427 | 1.3310 | 11.601 | 1.2978 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10000. | | | | | | | | |
| Low Limit | 9.0000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2960** | **.72596** | **.72793** | **1.2263** | **1.4768** | **.36030** | **1.3291** | **.34721** |
| Stddev | .0507 | .00015 | .00166 | .0009 | .0053 | .00355 | .0141 | .00419 |
| %RSD | 2.2099 | .02003 | .22840 | .07326 | .35871 | .98447 | 1.0587 | 1.2063 |
| #1 | 2.3318 | .72606 | .72911 | 1.2257 | 1.4805 | .36280 | 1.3391 | .35017 |
| #2 | 2.2601 | .72585 | .72676 | 1.2269 | 1.4730 | .35779 | 1.3192 | .34425 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4070.4** | **51171.** | **3237.5** |
| Stddev | .8 | 868. | 63.8 |
| %RSD | .02041 | 1.6954 | 1.9715 |
| #1 | 4069.9 | 50557. | 3192.4 |
| #2 | 4071.0 | 51784. | 3282.6 |

Sample Name: 280-42075-D-1-E MSD  Acquired: 5/17/2013 13:58:00  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06762** | **7.7963** | **1.1213** | **16.357** | **2.8902** | **.04329** | **2.2147** | **296.47** | **.11869** |
| Stddev | .00051 | .3985 | .0089 | .190 | .1237 | .00182 | .0275 | 12.47 | .00170 |
| %RSD | .75952 | 5.1115 | .79264 | 1.1594 | 4.2796 | 4.1963 | 1.2414 | 4.2067 | 1.4293 |
| #1 | .06798 | 7.5145 | 1.1276 | 16.491 | 2.8027 | .04200 | 2.2341 | 287.65 | .11989 |
| #2 | .06725 | 8.0780 | 1.1150 | 16.223 | 2.9777 | .04457 | 2.1953 | 305.29 | .11749 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45331** | **.23546** | **1.1512** | **13.255** | F **3158.9** | **1.6822** | **467.67** | **8.5829** | **.88957** |
| Stddev | .00264 | .00190 | .0141 | .549 | 30.5 | .0710 | 2.50 | .0546 | .00848 |
| %RSD | .58173 | .80868 | 1.2259 | 4.1416 | .96415 | 4.2202 | .53389 | .63594 | .95337 |
| #1 | .45518 | .23681 | 1.1612 | 12.867 | 3137.4 | 1.6320 | 469.44 | 8.6215 | .89556 |
| #2 | .45145 | .23411 | 1.1413 | 13.644 | 3180.5 | 1.7324 | 465.90 | 8.5443 | .88357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **18718.** | **.55791** | **18.008** | **.50654** | **98.174** | **.55046** | **1.6898** | **15.265** | **1.6405** |
| Stddev | 1441. | .00324 | .178 | .00086 | 1.333 | .01060 | .0176 | .726 | .0085 |
| %RSD | 7.6969 | .58068 | .98656 | .17072 | 1.3584 | 1.9248 | 1.0448 | 4.7561 | .51707 |
| #1 | 17699. | .56020 | 18.134 | .50715 | 99.117 | .55796 | 1.7023 | 14.752 | 1.6465 |
| #2 | 19736. | .55562 | 17.883 | .50593 | 97.231 | .54297 | 1.6773 | 15.778 | 1.6345 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10000. | | | | | | | | |
| Low Limit | 9.0000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2344** | **1.0556** | **1.0249** | **1.4917** | **2.1820** | **.50544** | **1.5875** | **.47266** |
| Stddev | .1307 | .0113 | .0106 | .0084 | .0140 | .00847 | .0206 | .02416 |
| %RSD | 4.0417 | 1.0716 | 1.0299 | .56368 | .64048 | 1.6756 | 1.2997 | 5.1107 |
| #1 | 3.1420 | 1.0636 | 1.0324 | 1.4976 | 2.1721 | .51143 | 1.6021 | .45558 |
| #2 | 3.3269 | 1.0476 | 1.0175 | 1.4857 | 2.1918 | .49945 | 1.5730 | .48974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **3805.0** | **48567.** | **3285.4** |
| Stddev | 38.0 | 401. | 175.6 |
| %RSD | .99929 | .82651 | 5.3433 |
| #1 | 3831.9 | 48283. | 3409.5 |
| #2 | 3778.1 | 48850. | 3161.3 |

Sample Name: 280-42080-C-1-A Acquired: 5/17/2013 14:02:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **.00128** | **.01154** | **5.0222** | **.43445** | **-.00018** | **-.00475** | **285.39** | **.00032** |
| Stddev | .00068 | .00012 | .00239 | .0001 | .00029 | .00001 | .00102 | .14 | .00005 |
| %RSD | 72.175 | 9.7233 | 20.674 | .00299 | .06790 | 4.8563 | 21.425 | .04931 | 14.741 |
| #1 | .00046 | .00120 | .01323 | 5.0221 | .43424 | -.00019 | -.00547 | 285.48 | .00036 |
| #2 | .00143 | .00137 | .00985 | 5.0223 | .43466 | -.00017 | -.00403 | 285.29 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00384** | **.00360** | **.00020** | **9.4725** | **47.393** | **.03234** | **149.87** | **5.8741** | **.00036** |
| Stddev | .00049 | .00007 | .00033 | .0086 | .321 | .00076 | .16 | .0476 | .00027 |
| %RSD | 12.693 | 1.9987 | 167.54 | .09037 | .67816 | 2.3390 | .10426 | .81045 | 73.258 |
| #1 | .00349 | .00366 | .00043 | 9.4786 | 47.620 | .03287 | 149.76 | 5.8404 | .00018 |
| #2 | .00418 | .00355 | -.00004 | 9.4665 | 47.165 | .03180 | 149.98 | 5.9078 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **242.78** | **.10881** | **.83476** | **.00419** | **6.8979** | **.00249** | **.00239** | **42.293** | **-.00011** |
| Stddev | .21 | .00011 | .00073 | .00188 | .0082 | .00115 | .00814 | .072 | .00072 |
| %RSD | .08611 | .10548 | .08714 | 44.889 | .11932 | 46.356 | 340.39 | .17126 | 663.36 |
| #1 | 242.93 | .10889 | .83425 | .00552 | 6.8921 | .00330 | .00815 | 42.344 | -.00062 |
| #2 | 242.63 | .10873 | .83528 | .00286 | 6.9038 | .00167 | -.00336 | 42.242 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7180** | **.00235** | **.00687** | **-.00248** | **.02470** | **.00292** | **.00817** | **.00468** |
| Stddev | .0029 | .00030 | .00066 | .00117 | .02544 | .00058 | .00002 | .00433 |
| %RSD | .17103 | 12.871 | 9.6146 | 47.206 | 103.03 | 19.927 | .19958 | 92.453 |
| #1 | 1.7159 | .00214 | .00640 | -.00331 | .04269 | .00251 | .00816 | .00774 |
| #2 | 1.7200 | .00257 | .00733 | -.00165 | .00670 | .00333 | .00818 | .00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5118.3** | **65336.** | **3612.4** |
| Stddev | 8.6 | 349. | 10.5 |
| %RSD | .16829 | .53473 | .29125 |
| #1 | 5112.2 | 65583. | 3604.9 |
| #2 | 5124.4 | 65089. | 3619.8 |

Sample Name: 280-42080-C-2-A Acquired: 5/17/2013 14:04:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **-.00241** | **.00979** | **4.7857** | **.41608** | **-.00016** | **-.00665** | **274.08** | **.00021** |
| Stddev | .00063 | .00015 | .00043 | .0068 | .00173 | .00002 | .00313 | .79 | .00002 |
| %RSD | 43.134 | 6.3170 | 4.3554 | .14133 | .41697 | 11.114 | 47.022 | .28693 | 11.085 |
| #1 | .00191 | -.00230 | .01009 | 4.7809 | .41731 | -.00015 | -.00444 | 274.64 | .00022 |
| #2 | .00101 | -.00252 | .00949 | 4.7905 | .41485 | -.00017 | -.00887 | 273.52 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00335** | **.00335** | **.00160** | **9.2951** | **41.280** | **.03193** | **144.32** | **5.7563** | **.00012** |
| Stddev | .00006 | .00003 | .00006 | .0167 | .226 | .00047 | .39 | .0500 | .00018 |
| %RSD | 1.7854 | .87096 | 3.6580 | .18005 | .54861 | 1.4741 | .27073 | .86840 | 145.71 |
| #1 | .00340 | .00333 | .00164 | 9.2833 | 41.440 | .03226 | 144.59 | 5.7917 | .00025 |
| #2 | .00331 | .00337 | .00156 | 9.3069 | 41.119 | .03159 | 144.04 | 5.7210 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **233.45** | **.10506** | **.83625** | **.00457** | **6.5489** | **.00287** | **.00233** | **41.189** | **-.00005** |
| Stddev | .92 | .00073 | .00292 | .00139 | .0088 | .00079 | .00058 | .098 | .00029 |
| %RSD | .39570 | .69910 | .34938 | 30.380 | .13449 | 27.414 | 24.727 | .23723 | 532.17 |
| #1 | 234.10 | .10558 | .83831 | .00555 | 6.5551 | .00343 | .00274 | 41.120 | .00015 |
| #2 | 232.79 | .10454 | .83418 | .00359 | 6.5426 | .00231 | .00192 | 41.258 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6640** | **.00058** | **.00635** | **-.00337** | **-.03140** | **.00321** | **.00558** | **.00460** |
| Stddev | .0041 | .00234 | .00003 | .00128 | .06104 | .00002 | .00025 | .00264 |
| %RSD | .24801 | 405.56 | .43746 | 37.893 | 194.42 | .56057 | 4.4658 | 57.453 |
| #1 | 1.6669 | -.00108 | .00637 | -.00427 | .01177 | .00322 | .00541 | .00647 |
| #2 | 1.6611 | .00223 | .00633 | -.00247 | -.07456 | .00320 | .00576 | .00273 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5162.4** | **65313.** | **3671.2** |
| Stddev | 4.7 | 34. | 10.0 |
| %RSD | .09121 | .05248 | .27249 |
| #1 | 5159.1 | 65338. | 3678.2 |
| #2 | 5165.7 | 65289. | 3664.1 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 14:06:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **48.954** | **-.00077** | **.03097** | **.00079** | **-.00012** | **.98684** | **.04560** | **-.00090** | **.00213** | **-.00001** | **-.00193** | **47.373** |
| Stddev | .00038 | .035 | .00251 | .00120 | .00024 | .00018 | .00537 | .00702 | .00016 | .00010 | .00025 | .00048 | .056 |
| %RSD | 246.39 | .07240 | 328.21 | 3.8738 | 29.887 | 142.30 | .54460 | 15.403 | 17.925 | 4.6706 | 1856.6 | 24.816 | .11754 |
| #1 | -.00011 | 48.979 | .00101 | .03182 | .00063 | -.00025 | .99064 | .05056 | -.00101 | .00220 | .00016 | -.00160 | 47.412 |
| #2 | .00042 | 48.929 | -.00254 | .03012 | .00096 | .00000 | .98304 | .04063 | -.00078 | .00206 | -.00019 | -.00227 | 47.334 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.835** | **.00556** | **.04609** | **.00084** | **-.00165** | **260.18** | **.00199** | **.01604** | **-.00035** | **4.9903** | **.00240** | **.00825** | **.03118** |
| Stddev | .244 | .00104 | .00138 | .00002 | .00012 | .20 | .00006 | .00101 | .00156 | .0149 | .00194 | .00125 | .00392 |
| %RSD | 2.2536 | 18.691 | 3.0026 | 2.3661 | 7.4690 | .07847 | 3.0573 | 6.3258 | 451.90 | .29919 | 80.824 | 15.175 | 12.573 |
| #1 | 11.007 | .00483 | .04707 | .00085 | -.00157 | 260.33 | .00195 | .01675 | -.00145 | 5.0009 | .00377 | .00737 | .03395 |
| #2 | 10.662 | .00629 | .04512 | .00083 | -.00174 | 260.04 | .00204 | .01532 | .00076 | 4.9798 | .00103 | .00914 | .02841 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **.00052** | **5.1379** | **.00407** | **-.00166** | **9.9589** | **.00029** | **.00303** | **-.05473** |
| Stddev | .00010 | .00005 | .0051 | .00046 | .00077 | .0639 | .00068 | .00016 | .00188 |
| %RSD | 55.481 | 9.6145 | .09872 | 11.303 | 46.049 | .64122 | 236.24 | 5.3892 | 3.4359 |
| #1 | -.00011 | .00055 | 5.1415 | .00439 | -.00112 | 10.004 | -.00019 | .00291 | -.05340 |
| #2 | -.00026 | .00048 | 5.1343 | .00374 | -.00220 | 9.9137 | .00077 | .00314 | -.05606 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5207.5** | **65616.** | **3542.3** |
| Stddev | 22.6 | 366. | 7.0 |
| %RSD | .43410 | .55719 | .19767 |
| #1 | 5223.5 | 65357. | 3547.3 |
| #2 | 5191.6 | 65874. | 3537.4 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 14:09:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49889** | **.49668** | **.95263** | **.52419** | **.49556** | **.45727** | **.00486** | **4.7609** | **.49139** | **.50226** | **.47814** | **.47013** |
| Stddev | .00344 | .00040 | .00253 | .00098 | .00817 | .00854 | .00275 | .0837 | .00019 | .00321 | .00046 | .00391 |
| %RSD | .69027 | .08083 | .26564 | .18752 | 1.6495 | 1.8676 | 56.527 | 1.7575 | .03927 | .63936 | .09547 | .83151 |
| #1 | .49646 | .49640 | .95442 | .52488 | .50134 | .46331 | .00292 | 4.8201 | .49125 | .50453 | .47846 | .46737 |
| #2 | .50133 | .49696 | .95085 | .52349 | .48978 | .45123 | .00681 | 4.7018 | .49153 | .49999 | .47782 | .47290 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2363** | **54.904** | **1.0181** | **19.247** | **.49126** | **.46725** | F **8.2330** | **.48830** | **.99905** | **.98978** | **-.00151** | **.98427** |
| Stddev | .0506 | .834 | .0169 | .151 | .00394 | .00233 | .1870 | .00267 | .00241 | .00215 | .00529 | .00514 |
| %RSD | 2.2622 | 1.5194 | 1.6642 | .78586 | .80234 | .49784 | 2.2712 | .54656 | .24146 | .21770 | 351.29 | .52200 |
| #1 | 2.2721 | 55.494 | 1.0300 | 19.140 | .48847 | .46890 | 8.3653 | .49018 | 1.0008 | .99130 | .00223 | .98790 |
| #2 | 2.2005 | 54.314 | 1.0061 | 19.354 | .49405 | .46561 | 8.1008 | .48641 | .99735 | .98825 | -.00525 | .98064 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | 5.0000 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0173** | **4.5743** | **.94198** | **.50455** | **.00365** | **.48710** | **.95690** | **.01285** | **.47695** | **.48690** | **.47140** |
| Stddev | .0006 | .0824 | .00420 | .00775 | .00119 | .00464 | .00328 | .01471 | .00373 | .00304 | .00617 |
| %RSD | .05921 | 1.8023 | .44637 | 1.5358 | 32.571 | .95266 | .34285 | 114.49 | .78251 | .62471 | 1.3097 |
| #1 | 1.0168 | 4.6326 | .94496 | .51003 | .00449 | .48381 | .95922 | .02325 | .47431 | .48475 | .47577 |
| #2 | 1.0177 | 4.5160 | .93901 | .49907 | .00281 | .49038 | .95458 | .00245 | .47959 | .48905 | .46703 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5272.7** | **66258.** | **3506.6** |
| Stddev | 10.1 | 381. | 43.9 |
| %RSD | .19073 | .57506 | 1.2509 |
| #1 | 5265.6 | 66527. | 3475.6 |
| #2 | 5279.8 | 65988. | 3537.6 |

Sample Name: CCB Acquired: 5/17/2013 14:11:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00094** | **.00154** | **.00172** | F **.01674** | **.00001** | **-.00013** | **-.00074** | **.02336** | **-.00009** | **.00027** | **-.00007** |
| Stddev | .00067 | .00024 | .00124 | .00106 | .00018 | .00005 | .00106 | .00499 | .00001 | .00013 | .00001 |
| %RSD | 71.914 | 15.541 | 71.997 | 6.3198 | 2836.2 | 42.837 | 143.34 | 21.348 | 5.4815 | 46.077 | 15.278 |
| #1 | .00142 | .00137 | .00259 | .01749 | .00013 | -.00009 | .00001 | .02689 | -.00009 | .00036 | -.00007 |
| #2 | .00046 | .00171 | .00084 | .01599 | -.00012 | -.00017 | -.00148 | .01984 | -.00009 | .00018 | -.00006 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | | | | | | | |
| Low Limit | -.00093 | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00139** | **.00081** | F **6.8430** | W **.00429** | F **.02994** | F **.00061** | **.00008** | F **3.0590** | **.00041** | **.00507** | **.00056** |
| Stddev | .00015 | .00550 | .1684 | .00180 | .00256 | .00005 | .00019 | .0488 | .00023 | .00049 | .00068 |
| %RSD | 11.070 | 679.28 | 2.4608 | 42.036 | 8.5574 | 7.7907 | 226.62 | 1.5965 | 56.931 | 9.7444 | 121.61 |
| #1 | -.00150 | -.00308 | 6.9620 | .00557 | .03176 | .00065 | .00022 | 3.0935 | .00024 | .00472 | .00008 |
| #2 | -.00128 | .00470 | 6.7239 | .00302 | .02813 | .00058 | -.00005 | 3.0244 | .00057 | .00542 | .00104 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | .25000 | .00261 | .02140 | .00051 | | .10000 | | | |
| Low Limit | -.00136 | | -.25000 | -.00261 | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01512** | **.00263** | **.00402** | **-.01282** | **-.00129** | **.00023** | **.00225** | W **.00060** | **-.00160** | **.02746** | **.00033** |
| Stddev | .00021 | .00022 | .00560 | .01605 | .00091 | .00010 | .00124 | .00015 | .00039 | .00424 | .00055 |
| %RSD | 1.4020 | 8.1849 | 139.15 | 125.17 | 70.651 | 43.395 | 54.855 | 25.333 | 24.101 | 15.434 | 168.56 |
| #1 | -.01497 | .00248 | .00006 | -.00147 | -.00193 | .00016 | .00313 | .00071 | -.00187 | .02446 | -.00006 |
| #2 | -.01527 | .00278 | .00798 | -.02417 | -.00064 | .00031 | .00138 | .00049 | -.00133 | .03046 | .00072 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00060 | | | |
| Low Limit | | | | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00186** | W **.00255** |
| Stddev | .00029 | .00418 |
| %RSD | 15.446 | 164.02 |
| #1 | .00166 | .00550 |
| #2 | .00207 | -.00041 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5282.1** | **66310.** | **3468.7** |
| Stddev | 26.5 | 274. | 17.2 |
| %RSD | .50159 | .41356 | .49484 |
| #1 | 5263.3 | 66116. | 3456.5 |
| #2 | 5300.8 | 66504. | 3480.8 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 14:14:03 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01075** | **.11256** | **.01465** | W **.12227** | **.01031** | **.00092** | **.10858** | F **.39071** | **.00497** | **.01059** | **.00992** |
| Stddev | .00002 | .00193 | .00035 | .00192 | .00003 | .00000 | .00104 | .00685 | .00005 | .00011 | .00007 |
| %RSD | .22585 | 1.7136 | 2.3660 | 1.5738 | .25645 | .09846 | .95603 | 1.7532 | 1.0798 | 1.0750 | .71369 |
| #1 | .01073 | .11392 | .01440 | .12363 | .01029 | .00091 | .10931 | .38587 | .00494 | .01067 | .00987 |
| #2 | .01076 | .11119 | .01489 | .12091 | .01032 | .00092 | .10785 | .39555 | .00501 | .01051 | .00997 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .10000 | | | | .20000 | | | |
| Range | | | | 20.000% | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01390** | **.11475** | F **12.697** | F **.01413** | F **.43031** | F **.01522** | **.01938** | F **8.2490** | **.04069** | **3.0073** | **.00883** |
| Stddev | .00020 | .00059 | .034 | .00120 | .00043 | .00009 | .00006 | .0434 | .00002 | .0040 | .00096 |
| %RSD | 1.4042 | .51759 | .26856 | 8.5066 | .10045 | .60263 | .28540 | .52550 | .05090 | .13274 | 10.909 |
| #1 | .01377 | .11433 | 12.721 | .01328 | .43001 | .01528 | .01942 | 8.2184 | .04070 | 3.0101 | .00815 |
| #2 | .01404 | .11517 | 12.672 | .01498 | .43062 | .01515 | .01934 | 8.2797 | .04067 | 3.0044 | .00951 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | .01000 | .20000 | .01000 | | 1.0000 | | | |
| Range | | | 30.000% | 30.000% | 30.000% | 30.000% | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00888** | W **.01205** | **.01677** | **.48778** | **.09606** | **.01200** | W **.01869** | **.01050** | **.01675** | **.05948** | **.00955** |
| Stddev | .00428 | .00225 | .00077 | .01029 | .00018 | .00005 | .00404 | .00038 | .00016 | .03737 | .00032 |
| %RSD | 48.202 | 18.649 | 4.5900 | 2.1090 | .18653 | .38810 | 21.608 | 3.6146 | .96686 | 62.822 | 3.3133 |
| #1 | .01191 | .01364 | .01622 | .49505 | .09593 | .01203 | .01583 | .01023 | .01687 | .08590 | .00977 |
| #2 | .00585 | .01046 | .01731 | .48050 | .09619 | .01196 | .02154 | .01077 | .01664 | .03306 | .00932 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | .01500 | | | | |
| Range | | 20.000% | | | | | 20.000% | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02321** | **.01712** |
| Stddev | .00026 | .00069 |
| %RSD | 1.1173 | 4.0343 |
| #1 | .02339 | .01663 |
| #2 | .02303 | .01761 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5447.8** | **67768.** | **3579.8** |
| Stddev | 6.3 | 183. | 7.7 |
| %RSD | .11605 | .26940 | .21487 |
| #1 | 5443.4 | 67639. | 3574.3 |
| #2 | 5452.3 | 67897. | 3585.2 |

Sample Name: 280-42080-C-3-A Acquired: 5/17/2013 14:16:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00139** | **.00463** | **.02395** | **40.412** | **1.3419** | **-.00018** | **-.00666** | **434.37** | **-.00004** |
| Stddev | .00002 | .00030 | .00002 | .008 | .0124 | .00006 | .00164 | 3.59 | .00004 |
| %RSD | 1.6458 | 6.5335 | .06781 | .01916 | .92033 | 34.634 | 24.640 | .82574 | 104.30 |
| #1 | .00137 | .00442 | .02394 | 40.417 | 1.3507 | -.00014 | -.00782 | 436.91 | -.00007 |
| #2 | .00141 | .00485 | .02396 | 40.406 | 1.3332 | -.00022 | -.00550 | 431.84 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01316** | **.03312** | **.00183** | **10.592** | W **111.85** | **.10428** | **196.23** | **6.0554** | **.01162** |
| Stddev | .00060 | .00020 | .00010 | .001 | .66 | .00177 | .01 | .0485 | .00017 |
| %RSD | 4.5844 | .60509 | 5.6461 | .01077 | .59036 | 1.6939 | .00375 | .80077 | 1.4698 |
| #1 | .01274 | .03298 | .00175 | 10.593 | 112.32 | .10553 | 196.23 | 6.0896 | .01174 |
| #2 | .01359 | .03326 | .00190 | 10.591 | 111.39 | .10303 | 196.24 | 6.0211 | .01150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1310.4** | **.31188** | **2.0961** | **.00409** | **22.451** | **.00373** | **.00139** | **36.774** | **.00223** |
| Stddev | 11.1 | .00177 | .0104 | .00036 | .025 | .00275 | .00517 | .046 | .00121 |
| %RSD | .85007 | .56756 | .49854 | 8.6868 | .11089 | 73.787 | 371.22 | .12499 | 54.171 |
| #1 | 1318.3 | .31314 | 2.1034 | .00384 | 22.469 | .00179 | .00505 | 36.807 | .00308 |
| #2 | 1302.5 | .31063 | 2.0887 | .00434 | 22.433 | .00568 | -.00226 | 36.742 | .00137 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8016** | **.00425** | **.02886** | **-.00420** | **-.04105** | **.01660** | **.01020** | **.01424** |
| Stddev | .0296 | .00079 | .00036 | .00049 | .00806 | .00049 | .00041 | .00068 |
| %RSD | .77943 | 18.485 | 1.2536 | 11.666 | 19.639 | 2.9262 | 3.9812 | 4.8069 |
| #1 | 3.8225 | .00369 | .02860 | -.00386 | -.03535 | .01694 | .00991 | .01375 |
| #2 | 3.7806 | .00481 | .02912 | -.00455 | -.04675 | .01626 | .01049 | .01472 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4898.3** | **62905.** | **3503.8** |
| Stddev | 7.2 | 33. | 1.9 |
| %RSD | .14731 | .05174 | .05366 |
| #1 | 4893.2 | 62928. | 3505.1 |
| #2 | 4903.4 | 62882. | 3502.5 |

Sample Name: 280-42080-C-4-A Acquired: 5/17/2013 14:19:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00151** | **.01184** | **.00162** | **.09831** | **.00067** | **.00011** | **.00309** | **.27873** | **.00003** |
| Stddev | .00012 | .00082 | .00249 | .00774 | .00016 | .00009 | .00239 | .01432 | .00013 |
| %RSD | 7.6505 | 6.9549 | 153.82 | 7.8755 | 23.866 | 81.019 | 77.408 | 5.1381 | 442.48 |
| #1 | .00143 | .01243 | .00338 | .10378 | .00079 | .00017 | .00140 | .28886 | -.00006 |
| #2 | .00159 | .01126 | -.00014 | .09284 | .00056 | .00005 | .00478 | .26860 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00011** | **-.00054** | **.03516** | **9.5129** | **.00490** | **.20309** | **.00503** | **.00034** |
| Stddev | .00010 | .00006 | .00045 | .00697 | .2994 | .00083 | .00714 | .00015 | .00009 |
| %RSD | 37.214 | 54.512 | 83.054 | 19.816 | 3.1477 | 16.877 | 3.5170 | 3.0235 | 26.164 |
| #1 | .00034 | .00015 | -.00022 | .04008 | 9.7246 | .00431 | .20815 | .00513 | .00040 |
| #2 | .00020 | .00007 | -.00085 | .03023 | 9.3011 | .00548 | .19804 | .00492 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.4271** | **.00056** | **.23503** | **.00091** | **-.00329** | **.00206** | **.00282** | **.14311** | **-.00072** |
| Stddev | .3175 | .00005 | .00172 | .00113 | .00239 | .00039 | .00020 | .02473 | .00088 |
| %RSD | 4.9394 | 9.7919 | .73072 | 124.32 | 72.688 | 18.870 | 7.1214 | 17.279 | 122.22 |
| #1 | 6.6516 | .00052 | .23625 | .00011 | -.00499 | .00233 | .00268 | .16059 | -.00010 |
| #2 | 6.2027 | .00060 | .23382 | .00171 | -.00160 | .00178 | .00297 | .12562 | -.00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00234** | **.00076** | **.00049** | **-.00034** | **.02340** | **.00047** | **.00430** | **.00336** |
| Stddev | .00011 | .00112 | .00005 | .00047 | .01997 | .00008 | .00008 | .00197 |
| %RSD | 4.6980 | 147.85 | 9.9982 | 138.09 | 85.363 | 17.569 | 1.9482 | 58.705 |
| #1 | .00242 | -.00003 | .00046 | -.00001 | .03752 | .00053 | .00436 | .00476 |
| #2 | .00227 | .00155 | .00053 | -.00068 | .00927 | .00041 | .00424 | .00197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5441.5** | **68752.** | **3647.6** |
| Stddev | 30.4 | 329. | 44.6 |
| %RSD | .55934 | .47924 | 1.2238 |
| #1 | 5463.1 | 68519. | 3616.0 |
| #2 | 5420.0 | 68985. | 3679.2 |

Sample Name: 280-42080-C-5-A Acquired: 5/17/2013 14:22:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.04237** | **.05530** | **58.984** | **.80081** | **.00001** | **.00143** | **75.238** | **.00042** |
| Stddev | .00038 | .00004 | .00237 | .072 | .00133 | .00009 | .00317 | .138 | .00012 |
| %RSD | 237.98 | .10077 | 4.2771 | .12216 | .16601 | 682.09 | 222.54 | .18300 | 28.778 |
| #1 | -.00011 | .04234 | .05697 | 59.035 | .80175 | -.00005 | .00367 | 75.335 | .00051 |
| #2 | .00043 | .04240 | .05363 | 58.933 | .79987 | .00008 | -.00082 | 75.141 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02249** | **.28243** | **.00266** | **2.6871** | F **766.16** | **1.3811** | W **966.78** | **.36680** | **.02734** |
| Stddev | .00029 | .00154 | .00082 | .0091 | .64 | .0065 | 5.36 | .00046 | .00023 |
| %RSD | 1.2884 | .54415 | 30.740 | .33725 | .08380 | .46951 | .55424 | .12505 | .85243 |
| #1 | .02269 | .28351 | .00324 | 2.6807 | 765.71 | 1.3765 | 962.99 | .36648 | .02717 |
| #2 | .02228 | .28134 | .00208 | 2.6935 | 766.62 | 1.3856 | 970.57 | .36712 | .02750 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | 500.00 | | |
| Low Limit | | | | | -2.0000 | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4076.0** | **.17163** | **2.6624** | **.00061** | **90.261** | **.00944** | **.00321** | **21.966** | **.02613** |
| Stddev | 1.3 | .00075 | .0095 | .00210 | .066 | .00030 | .00126 | .012 | .00188 |
| %RSD | .03230 | .43527 | .35733 | 342.93 | .07344 | 3.1784 | 39.234 | .05454 | 7.2109 |
| #1 | 4076.9 | .17215 | 2.6692 | -.00087 | 90.308 | .00965 | .00232 | 21.975 | .02746 |
| #2 | 4075.1 | .17110 | 2.6557 | .00210 | 90.214 | .00923 | .00410 | 21.958 | .02479 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1252** | **.00520** | **.27192** | **-.00443** | **.05303** | **.09000** | **.02900** | **.08284** |
| Stddev | .0015 | .00023 | .00038 | .00155 | .00411 | .00062 | .00023 | .00122 |
| %RSD | .06903 | 4.3987 | .14023 | 34.893 | 7.7423 | .68837 | .79461 | 1.4759 |
| #1 | 2.1263 | .00536 | .27219 | -.00553 | .05013 | .09043 | .02916 | .08198 |
| #2 | 2.1242 | .00504 | .27165 | -.00334 | .05594 | .08956 | .02884 | .08371 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4550.8** | **58655.** | **3385.0** |
| Stddev | 4.0 | 16. | 27.2 |
| %RSD | .08822 | .02722 | .80404 |
| #1 | 4553.7 | 58666. | 3365.7 |
| #2 | 4548.0 | 58643. | 3404.2 |

Sample Name: 280-42145-D-1-A Acquired: 5/17/2013 14:25:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00144** | **.03094** | **-.00038** | **.33331** | **.03341** | **-.00012** | **-.00172** | **239.86** | **.00024** |
| Stddev | .00017 | .00027 | .00077 | .01498 | .00057 | .00008 | .00024 | 1.14 | .00014 |
| %RSD | 12.101 | .88464 | 202.30 | 4.4953 | 1.7168 | 67.917 | 13.781 | .47554 | 58.394 |
| #1 | .00156 | .03075 | -.00092 | .34391 | .03382 | -.00006 | -.00155 | 239.05 | .00034 |
| #2 | .00132 | .03114 | .00016 | .32272 | .03301 | -.00017 | -.00189 | 240.67 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00053** | **-.00026** | **.04801** | **10.169** | **.00576** | **33.185** | **.20405** | **.00027** |
| Stddev | .00014 | .00003 | .00007 | .00160 | .244 | .00003 | .040 | .00022 | .00008 |
| %RSD | 51.296 | 6.2275 | 26.064 | 3.3291 | 2.3964 | .51333 | .12045 | .11022 | 29.534 |
| #1 | .00038 | .00055 | -.00031 | .04688 | 10.341 | .00574 | 33.213 | .20421 | .00033 |
| #2 | .00018 | .00051 | -.00021 | .04914 | 9.9964 | .00578 | 33.156 | .20389 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.039** | **.00267** | **.49482** | **.00218** | **218.74** | **.00274** | **.00337** | **3.4076** | **-.00147** |
| Stddev | .438 | .00010 | .00904 | .00120 | .27 | .00042 | .00262 | .0357 | .00023 |
| %RSD | 2.9123 | 3.7360 | 1.8262 | 55.288 | .12244 | 15.185 | 77.703 | 1.0468 | 15.329 |
| #1 | 15.349 | .00260 | .50121 | .00133 | 218.93 | .00244 | .00152 | 3.4328 | -.00131 |
| #2 | 14.729 | .00274 | .48843 | .00303 | 218.55 | .00303 | .00522 | 3.3823 | -.00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72759** | **.00017** | **.00193** | **-.00054** | **-.01240** | **.00095** | **.00553** | **.00284** |
| Stddev | .00359 | .00035 | .00009 | .00098 | .06377 | .00046 | .00035 | .00042 |
| %RSD | .49352 | 210.05 | 4.7189 | 179.34 | 514.09 | 48.378 | 6.3197 | 14.786 |
| #1 | .72506 | -.00008 | .00199 | .00015 | -.05749 | .00063 | .00577 | .00255 |
| #2 | .73013 | .00042 | .00186 | -.00124 | .03269 | .00128 | .00528 | .00314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5231.8** | **65899.** | **3594.0** |
| Stddev | .4 | 182. | 20.3 |
| %RSD | .00767 | .27618 | .56374 |
| #1 | 5232.1 | 65771. | 3608.3 |
| #2 | 5231.5 | 66028. | 3579.7 |

Sample Name: 280-42145-D-2-A Acquired: 5/17/2013 14:27:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **.02365** | **.00114** | **.12537** | **.04728** | **-.00010** | **-.00004** | **125.90** | **.00014** |
| Stddev | .00010 | .00046 | .00006 | .00541 | .00027 | .00005 | .00175 | .46 | .00011 |
| %RSD | 16.510 | 1.9650 | 5.5448 | 4.3170 | .56393 | 48.960 | 4241.8 | .36541 | 77.787 |
| #1 | .00056 | .02398 | .00110 | .12920 | .04709 | -.00007 | -.00128 | 126.22 | .00006 |
| #2 | .00071 | .02332 | .00119 | .12154 | .04747 | -.00014 | .00120 | 125.57 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00031** | **.00006** | **.14247** | **9.3879** | **.00470** | **14.976** | **1.1593** | **.00025** |
| Stddev | .00016 | .00006 | .00008 | .00107 | .3464 | .00106 | .006 | .0007 | .00009 |
| %RSD | 40.526 | 18.468 | 131.77 | .74984 | 3.6900 | 22.539 | .04337 | .05656 | 37.311 |
| #1 | .00052 | .00027 | .00012 | .14172 | 9.6329 | .00395 | 14.980 | 1.1589 | .00019 |
| #2 | .00029 | .00035 | .00000 | .14323 | 9.1430 | .00545 | 14.971 | 1.1598 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.670** | **.00450** | **.36256** | **-.00094** | **80.343** | **.00328** | **.00078** | **5.0577** | **-.00129** |
| Stddev | .667 | .00053 | .00053 | .00001 | .143 | .00165 | .00271 | .0413 | .00031 |
| %RSD | 3.0794 | 11.794 | .14526 | 1.3720 | .17753 | 50.114 | 349.51 | .81551 | 24.047 |
| #1 | 22.142 | .00488 | .36219 | -.00095 | 80.444 | .00212 | -.00114 | 5.0868 | -.00150 |
| #2 | 21.198 | .00412 | .36294 | -.00094 | 80.242 | .00445 | .00269 | 5.0285 | -.00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28399** | **.00048** | **.00064** | **.00183** | **-.00816** | **.00091** | **.00515** | **.00244** |
| Stddev | .00109 | .00194 | .00001 | .00121 | .00566 | .00047 | .00041 | .00043 |
| %RSD | .38418 | 400.29 | 1.6898 | 65.780 | 69.311 | 52.078 | 7.9349 | 17.644 |
| #1 | .28476 | .00186 | .00063 | .00098 | -.00416 | .00057 | .00486 | .00275 |
| #2 | .28321 | -.00089 | .00065 | .00268 | -.01216 | .00125 | .00544 | .00214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5269.7** | **66918.** | **3546.2** |
| Stddev | 6.5 | 150. | 13.8 |
| %RSD | .12420 | .22380 | .39045 |
| #1 | 5265.0 | 66812. | 3536.4 |
| #2 | 5274.3 | 67024. | 3556.0 |

Sample Name: 280-42145-D-3-A  Acquired: 5/17/2013 14:30:06  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00406** | **.24106** | **.00339** | **.12693** | **.12039** | **.00002** | **-.00529** | **136.76** | **.00194** |
| Stddev | .00013 | .00065 | .00102 | .00235 | .00076 | .00008 | .00107 | .02 | .00022 |
| %RSD | 3.3028 | .27104 | 30.073 | 1.8476 | .63447 | 381.90 | 20.184 | .01484 | 11.450 |
| #1 | .00396 | .24152 | .00267 | .12859 | .11985 | -.00004 | -.00454 | 136.75 | .00179 |
| #2 | .00415 | .24060 | .00411 | .12527 | .12093 | .00008 | -.00605 | 136.78 | .00210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08563** | **.00144** | **.00600** | **16.067** | **6.8626** | **.00353** | **14.333** | F **21.856** | **-.00051** |
| Stddev | .00043 | .00000 | .00041 | .000 | .0010 | .00057 | .029 | .162 | .00003 |
| %RSD | .50564 | .04135 | 6.7652 | .00007 | .01520 | 16.040 | .19918 | .73942 | 6.0981 |
| #1 | .08533 | .00144 | .00572 | 16.067 | 6.8618 | .00313 | 14.353 | 21.741 | -.00053 |
| #2 | .08594 | .00144 | .00629 | 16.067 | 6.8633 | .00393 | 14.312 | 21.970 | -.00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.274** | **.06123** | **1.0183** | **.00474** | **43.848** | **.00010** | **-.00163** | **7.7187** | **-.00113** |
| Stddev | .125 | .00085 | .0014 | .00001 | .042 | .00102 | .00257 | .0190 | .00120 |
| %RSD | .58819 | 1.3941 | .13697 | .14285 | .09599 | 1038.8 | 157.39 | .24652 | 106.89 |
| #1 | 21.186 | .06063 | 1.0173 | .00473 | 43.878 | -.00062 | -.00345 | 7.7053 | -.00028 |
| #2 | 21.363 | .06184 | 1.0193 | .00474 | 43.819 | .00082 | .00018 | 7.7322 | -.00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33183** | **.00311** | **.00432** | W **-.01193** | **.00363** | **-.00852** | **.02663** | **.00339** |
| Stddev | .00062 | .00035 | .00036 | .00138 | .02545 | .00071 | .00015 | .00175 |
| %RSD | .18595 | 11.392 | 8.3297 | 11.559 | 700.96 | 8.3725 | .57068 | 51.642 |
| #1 | .33139 | .00336 | .00406 | -.01096 | .02162 | -.00902 | .02674 | .00463 |
| #2 | .33227 | .00286 | .00457 | -.01291 | -.01436 | -.00801 | .02652 | .00215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5320.0** | **67602.** | **3596.3** |
| Stddev | 4.3 | 170. | 15.4 |
| %RSD | .07994 | .25173 | .42696 |
| #1 | 5323.0 | 67482. | 3607.1 |
| #2 | 5317.0 | 67723. | 3585.4 |

Sample Name: 280-42145-D-4-A Acquired: 5/17/2013 14:32:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00123** | **.16373** | **-.00018** | **.05923** | **.04695** | **-.00006** | **-.00128** | **27.021** | **.00004** |
| Stddev | .00015 | .00094 | .00079 | .00296 | .00005 | .00014 | .00138 | .102 | .00006 |
| %RSD | 12.258 | .57293 | 439.28 | 4.9971 | .10681 | 230.18 | 107.35 | .37920 | 163.68 |
| #1 | .00112 | .16440 | -.00074 | .06133 | .04699 | .00004 | -.00031 | 27.093 | -.00001 |
| #2 | .00134 | .16307 | .00038 | .05714 | .04692 | -.00016 | -.00226 | 26.949 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00051** | **-.00005** | **.34447** | **5.5170** | **.00213** | **2.7949** | **.15305** | **.00029** |
| Stddev | .00007 | .00027 | .00047 | .00076 | .1006 | .00034 | .0259 | .00160 | .00015 |
| %RSD | 18.885 | 53.248 | 912.83 | .22203 | 1.8232 | 16.172 | .92554 | 1.0446 | 53.335 |
| #1 | .00033 | .00032 | .00028 | .34393 | 5.5881 | .00189 | 2.8132 | .15418 | .00040 |
| #2 | .00044 | .00070 | -.00038 | .34501 | 5.4458 | .00237 | 2.7766 | .15192 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.4642** | **.00255** | **.43423** | **.00056** | **16.335** | **.00061** | **.00101** | **5.4134** | **-.00106** |
| Stddev | .1458 | .00013 | .00065 | .00078 | .009 | .00011 | .00128 | .0306 | .00031 |
| %RSD | 2.6680 | 5.0476 | .14960 | 138.00 | .05214 | 18.928 | 127.34 | .56478 | 28.875 |
| #1 | 5.5673 | .00264 | .43469 | .00112 | 16.329 | .00053 | .00191 | 5.4351 | -.00128 |
| #2 | 5.3611 | .00246 | .43377 | .00001 | 16.341 | .00069 | .00010 | 5.3918 | -.00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09045** | **.00303** | **.00169** | **-.00049** | **-.00248** | **.00026** | **.00587** | **.00310** |
| Stddev | .00013 | .00053 | .00018 | .00052 | .02055 | .00051 | .00026 | .00054 |
| %RSD | .14152 | 17.644 | 10.652 | 105.62 | 827.15 | 193.28 | 4.3946 | 17.554 |
| #1 | .09054 | .00265 | .00181 | -.00012 | .01205 | -.00010 | .00605 | .00348 |
| #2 | .09036 | .00341 | .00156 | -.00086 | -.01702 | .00063 | .00569 | .00271 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5488.3** | **68241.** | **3601.9** |
| Stddev | 16.1 | 495. | 24.0 |
| %RSD | .29414 | .72544 | .66657 |
| #1 | 5476.9 | 67891. | 3584.9 |
| #2 | 5499.7 | 68591. | 3618.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 14:34:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **48.279** | **.00004** | **.03943** | **-.00016** | **-.00016** | **.98610** | **-.00420** | **-.00083** | **.00187** | **.00020** | **-.00198** | **46.738** |
| Stddev | .00083 | .549 | .00049 | .00113 | .00013 | .00010 | .00293 | .00127 | .00001 | .00005 | .00009 | .00014 | .024 |
| %RSD | 662.71 | 1.1364 | 1174.8 | 2.8621 | 82.268 | 65.191 | .29739 | 30.293 | 1.5401 | 2.4597 | 47.465 | 7.1008 | .05209 |
| #1 | .00071 | 47.891 | -.00030 | .04023 | -.00025 | -.00008 | .98403 | -.00330 | -.00082 | .00184 | .00013 | -.00188 | 46.756 |
| #2 | -.00046 | 48.667 | .00039 | .03863 | -.00007 | -.00023 | .98818 | -.00510 | -.00084 | .00190 | .00026 | -.00208 | 46.721 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.1809** | **.00138** | **.00708** | **-.00001** | **-.00173** | **259.15** | **.00160** | **.00945** | **.00026** | **4.9582** | **.00202** | **.00628** | **.01756** |
| Stddev | .0707 | .00236 | .00166 | .00006 | .00027 | 2.54 | .00005 | .00201 | .00091 | .0032 | .00199 | .00107 | .01883 |
| %RSD | 1.6899 | 171.04 | 23.501 | 550.27 | 15.367 | .97824 | 3.3084 | 21.238 | 343.48 | .06400 | 98.615 | 17.006 | 107.20 |
| #1 | 4.2308 | .00305 | .00590 | -.00005 | -.00191 | 257.36 | .00156 | .01087 | .00090 | 4.9560 | .00343 | .00552 | .03087 |
| #2 | 4.1309 | -.00029 | .00826 | .00003 | -.00154 | 260.95 | .00163 | .00803 | -.00038 | 4.9605 | .00061 | .00703 | .00425 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **.00025** | **5.1378** | **.00401** | **-.00196** | **10.114** | **-.00052** | **.00370** | **-.05708** |
| Stddev | .00003 | .00007 | .0140 | .00051 | .00146 | .021 | .00016 | .00008 | .00440 |
| %RSD | 4.4592 | 28.637 | .27258 | 12.729 | 74.551 | .20859 | 30.669 | 2.1044 | 7.7010 |
| #1 | -.00061 | .00020 | 5.1477 | .00365 | -.00093 | 10.129 | -.00063 | .00364 | -.06019 |
| #2 | -.00057 | .00030 | 5.1279 | .00437 | -.00299 | 10.099 | -.00041 | .00375 | -.05397 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5351.9** | **66823.** | **3600.2** |
| Stddev | 11.0 | 114. | 18.7 |
| %RSD | .20471 | .17040 | .52057 |
| #1 | 5359.6 | 66742. | 3613.5 |
| #2 | 5344.1 | 66903. | 3586.9 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 14:37:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49752** | **.48879** | **.94955** | **.53372** | **.49685** | **.45598** | **.00718** | **4.7249** | **.48898** | **.50018** | **.47850** | **.47340** |
| Stddev | .00204 | .00077 | .00032 | .00009 | .00236 | .00272 | .00255 | .0041 | .00027 | .00127 | .00029 | .00014 |
| %RSD | .40916 | .15703 | .03329 | .01636 | .47424 | .59548 | 35.487 | .08718 | .05598 | .25490 | .06125 | .03032 |
| #1 | .49608 | .48933 | .94933 | .53366 | .49852 | .45790 | .00898 | 4.7278 | .48917 | .50108 | .47829 | .47329 |
| #2 | .49896 | .48825 | .94978 | .53378 | .49519 | .45406 | .00538 | 4.7220 | .48878 | .49928 | .47870 | .47350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1977** | **52.699** | **1.0240** | **19.229** | **.49033** | **.46989** | F **5.8794** | **.48830** | **.99070** | **.98746** | **-.04349** | **.98372** |
| Stddev | .0073 | .198 | .0039 | .023 | .00087 | .00142 | .0647 | .00125 | .00555 | .00168 | .00180 | .00174 |
| %RSD | .33111 | .37600 | .37929 | .12067 | .17670 | .30300 | 1.1008 | .25634 | .55973 | .16984 | 4.1295 | .17719 |
| #1 | 2.2028 | 52.839 | 1.0268 | 19.213 | .48971 | .47090 | 5.9251 | .48918 | .99462 | .98865 | -.04222 | .98496 |
| #2 | 2.1925 | 52.559 | 1.0213 | 19.246 | .49094 | .46888 | 5.8336 | .48741 | .98678 | .98628 | -.04476 | .98249 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | 5.0000 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0076** | **4.5380** | **.94139** | **.50538** | **.00004** | **.48689** | **.95967** | **.02476** | **.47710** | **.48680** | **.47168** |
| Stddev | .0073 | .0381 | .00551 | .00154 | .00123 | .00132 | .00491 | .06706 | .00007 | .00049 | .00090 |
| %RSD | .72619 | .83950 | .58518 | .30513 | 2985.9 | .27132 | .51134 | 270.85 | .01483 | .09994 | .19057 |
| #1 | 1.0128 | 4.5111 | .94529 | .50647 | -.00083 | .48595 | .96314 | .07218 | .47715 | .48645 | .47231 |
| #2 | 1.0025 | 4.5650 | .93750 | .50429 | .00091 | .48782 | .95620 | -.02266 | .47705 | .48714 | .47104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5403.4** | **67678.** | **3581.3** |
| Stddev | 12.5 | 137. | 5.9 |
| %RSD | .23111 | .20184 | .16422 |
| #1 | 5412.2 | 67582. | 3577.1 |
| #2 | 5394.6 | 67775. | 3585.4 |

Sample Name: CCB Acquired: 5/17/2013 14:39:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **.00010** | **.00319** | F **.03124** | **-.00058** | **-.00001** | **.00355** | **-.00304** | **-.00008** | **.00010** | **.00004** |
| Stddev | .00006 | .00015 | .00116 | .00096 | .00033 | .00000 | .00353 | .00082 | .00021 | .00010 | .00007 |
| %RSD | 7.3077 | 155.66 | 36.332 | 3.0700 | 57.587 | 31.920 | 99.579 | 26.986 | 272.58 | 100.22 | 165.90 |
| #1 | .00084 | .00020 | .00401 | .03192 | -.00034 | -.00002 | .00604 | -.00246 | -.00022 | .00003 | .00009 |
| #2 | .00093 | -.00001 | .00237 | .03056 | -.00081 | -.00001 | .00105 | -.00362 | .00007 | .00016 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00079** | **-.00130** | F **3.3764** | W **.00264** | **-.00118** | **.00002** | **.00049** | F **1.0344** | **.00012** | **.00487** | **.00042** |
| Stddev | .00034 | .00243 | .0944 | .00133 | .00367 | .00002 | .00013 | .0066 | .00024 | .00082 | .00072 |
| %RSD | 42.867 | 186.54 | 2.7967 | 50.324 | 311.33 | 112.93 | 27.545 | .63427 | 194.00 | 16.732 | 172.18 |
| #1 | -.00055 | -.00302 | 3.4432 | .00170 | .00142 | .00003 | .00039 | 1.0391 | -.00005 | .00545 | -.00009 |
| #2 | -.00103 | .00041 | 3.3096 | .00358 | -.00378 | .00000 | .00058 | 1.0298 | .00029 | .00430 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | .00261 | | | | .10000 | | | |
| Low Limit | | | -.25000 | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04267** | **.00200** | **.00278** | **-.01907** | **-.00087** | **-.00020** | **.00116** | **.00008** | **.00037** | **.04756** | **.00020** |
| Stddev | .00091 | .00109 | .00045 | .00465 | .00008 | .00009 | .00222 | .00042 | .00082 | .00563 | .00022 |
| %RSD | 2.1351 | 54.559 | 16.262 | 24.401 | 9.4008 | 46.878 | 192.54 | 543.77 | 220.75 | 11.831 | 110.24 |
| #1 | -.04203 | .00123 | .00246 | -.02237 | -.00093 | -.00026 | .00273 | -.00022 | -.00021 | .04358 | .00004 |
| #2 | -.04332 | .00278 | .00310 | -.01578 | -.00081 | -.00013 | -.00042 | .00038 | .00095 | .05154 | .00036 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00300** | **.00169** |
| Stddev | .00061 | .00014 |
| %RSD | 20.476 | 8.2292 |
| #1 | .00257 | .00159 |
| #2 | .00343 | .00179 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5403.1** | **67933.** | **3558.7** |
| Stddev | 10.2 | 235. | 31.7 |
| %RSD | .18960 | .34522 | .89115 |
| #1 | 5395.9 | 67768. | 3536.3 |
| #2 | 5410.4 | 68099. | 3581.2 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 14:42:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01091** | **.10092** | **.01696** | W **.12888** | **.00965** | **.00088** | **.10642** | **.19684** | **.00478** | **.01064** | **.00986** |
| Stddev | .00010 | .00062 | .00001 | .00039 | .00009 | .00008 | .00001 | .00502 | .00010 | .00012 | .00033 |
| %RSD | .89438 | .61273 | .04828 | .30373 | .94974 | 9.0831 | .01265 | 2.5494 | 1.9880 | 1.1614 | 3.3957 |
| #1 | .01098 | .10048 | .01695 | .12860 | .00959 | .00094 | .10641 | .20039 | .00485 | .01055 | .00962 |
| #2 | .01084 | .10135 | .01697 | .12915 | .00972 | .00083 | .10643 | .19329 | .00472 | .01073 | .01010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .10000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01342** | **.09009** | F **6.2020** | **.00950** | **.19929** | **.01012** | **.01920** | F **1.8995** | **.04080** | **2.9904** | **.00870** |
| Stddev | .00055 | .00116 | .0259 | .00285 | .00176 | .00012 | .00018 | .0122 | .00021 | .0035 | .00009 |
| %RSD | 4.0713 | 1.2845 | .41800 | 29.979 | .88542 | 1.1383 | .93894 | .64155 | .51088 | .11732 | 1.0727 |
| #1 | .01380 | .08927 | 6.1836 | .00749 | .19804 | .01004 | .01908 | 1.9081 | .04095 | 2.9880 | .00876 |
| #2 | .01303 | .09091 | 6.2203 | .01151 | .20054 | .01020 | .01933 | 1.8909 | .04065 | 2.9929 | .00863 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | | | 1.0000 | | | |
| Range | | | 30.000% | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04727** | **.01133** | **.01489** | **.45400** | **.09515** | **.01029** | **.01434** | **.00998** | **.01527** | W **.07663** | **.00966** |
| Stddev | .00572 | .00148 | .00120 | .00855 | .00062 | .00009 | .00178 | .00012 | .00041 | .01074 | .00020 |
| %RSD | 12.094 | 13.101 | 8.0369 | 1.8822 | .65517 | .85219 | 12.430 | 1.1945 | 2.6552 | 14.018 | 2.1167 |
| #1 | -.05131 | .01028 | .01405 | .46005 | .09560 | .01036 | .01308 | .01006 | .01556 | .08423 | .00951 |
| #2 | -.04323 | .01239 | .01574 | .44796 | .09471 | .01023 | .01560 | .00990 | .01499 | .06904 | .00980 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02263** | **.01569** |
| Stddev | .00046 | .00007 |
| %RSD | 2.0127 | .44280 |
| #1 | .02231 | .01564 |
| #2 | .02295 | .01574 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5531.5** | **69698.** | **3632.1** |
| Stddev | 4.6 | 156. | 23.0 |
| %RSD | .08322 | .22414 | .63430 |
| #1 | 5534.7 | 69809. | 3648.4 |
| #2 | 5528.2 | 69588. | 3615.8 |

Sample Name: 280-42019-B-12-A  Acquired: 5/17/2013 14:44:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **25.455** | **.03284** | **.04054** | **1.3738** | **.00156** | **-.00138** | **129.70** | **.00046** |
| Stddev | .00008 | .038 | .00315 | .00023 | .0037 | .00003 | .00287 | .36 | .00003 |
| %RSD | 16.699 | .15105 | 9.5962 | .56313 | .26548 | 2.0532 | 207.38 | .27543 | 5.5761 |
| #1 | .00051 | 25.482 | .03061 | .04038 | 1.3764 | .00158 | .00065 | 129.95 | .00048 |
| #2 | .00040 | 25.427 | .03507 | .04070 | 1.3712 | .00153 | -.00342 | 129.45 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01720** | **.01614** | **.01994** | **38.377** | **10.736** | **.01663** | **10.547** | **.97797** | **.00402** |
| Stddev | .00007 | .00000 | .00005 | .144 | .089 | .00032 | .024 | .00156 | .00007 |
| %RSD | .42307 | .01306 | .25565 | .37638 | .82467 | 1.8987 | .23062 | .15932 | 1.8471 |
| #1 | .01715 | .01614 | .01997 | 38.479 | 10.799 | .01685 | 10.530 | .97686 | .00407 |
| #2 | .01726 | .01614 | .01990 | 38.275 | 10.674 | .01641 | 10.565 | .97907 | .00397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2819** | **.01481** | **1.0882** | **.03112** | **.54101** | **.00168** | **.02884** | **2.3728** | **-.00003** |
| Stddev | .0032 | .00018 | .0047 | .00073 | .00280 | .00079 | .00017 | .0674 | .00013 |
| %RSD | .24666 | 1.1933 | .43493 | 2.3484 | .51768 | 46.631 | .60604 | 2.8425 | 484.00 |
| #1 | 1.2842 | .01469 | 1.0849 | .03060 | .54299 | .00113 | .02897 | 2.3251 | .00006 |
| #2 | 1.2797 | .01494 | 1.0916 | .03163 | .53903 | .00224 | .02872 | 2.4205 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20984** | **.03108** | **.21704** | **-.00102** | **.00406** | **.23350** | **.11643** | **.01722** |
| Stddev | .00056 | .00098 | .00243 | .00161 | .03597 | .00070 | .00064 | .00097 |
| %RSD | .26532 | 3.1472 | 1.1187 | 157.46 | 885.47 | .29830 | .54635 | 5.6067 |
| #1 | .21024 | .03039 | .21875 | .00012 | .02949 | .23301 | .11598 | .01790 |
| #2 | .20945 | .03177 | .21532 | -.00216 | -.02137 | .23399 | .11688 | .01654 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5527.2** | **69275.** | **3733.5** |
| Stddev | 1.9 | 60. | 12.4 |
| %RSD | .03493 | .08732 | .33320 |
| #1 | 5528.6 | 69318. | 3724.7 |
| #2 | 5525.9 | 69232. | 3742.3 |

Sample Name: sd 42019-B-12-A@5 Acquired: 5/17/2013 14:46:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **5.1702** | **.00512** | **.03059** | **.27628** | **.00021** | **.00312** | **26.048** | **-.00012** |
| Stddev | .00031 | .0289 | .00293 | .00025 | .00071 | .00007 | .00125 | .114 | .00028 |
| %RSD | 38.530 | .55959 | 57.278 | .80563 | .25777 | 33.740 | 40.024 | .43784 | 244.35 |
| #1 | .00103 | 5.1498 | .00304 | .03041 | .27578 | .00016 | .00400 | 25.967 | .00008 |
| #2 | .00059 | 5.1907 | .00719 | .03076 | .27678 | .00025 | .00224 | 26.129 | -.00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00371** | **.00324** | **.00311** | **7.8427** | **4.4670** | **.00239** | **2.1763** | **.19762** | **.00099** |
| Stddev | .00014 | .00013 | .00036 | .0016 | .0267 | .00087 | .0170 | .00044 | .00012 |
| %RSD | 3.8747 | 4.0334 | 11.676 | .02069 | .59690 | 36.498 | .78025 | .22190 | 11.935 |
| #1 | .00381 | .00315 | .00337 | 7.8416 | 4.4859 | .00177 | 2.1643 | .19731 | .00108 |
| #2 | .00361 | .00333 | .00286 | 7.8439 | 4.4482 | .00301 | 2.1883 | .19793 | .00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93594** | **.00309** | **.21795** | **.00587** | **.09091** | **.00123** | **.00940** | **.47436** | **.00020** |
| Stddev | .00523 | .00016 | .00253 | .00000 | .00323 | .00205 | .00454 | .01241 | .00043 |
| %RSD | .55901 | 5.0399 | 1.1601 | .03691 | 3.5533 | 166.81 | 48.272 | 2.6169 | 219.80 |
| #1 | .93224 | .00320 | .21616 | .00587 | .08862 | .00268 | .00619 | .48313 | .00051 |
| #2 | .93964 | .00298 | .21974 | .00587 | .09319 | -.00022 | .01261 | .46558 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04225** | **.00804** | **.04279** | **.00059** | **.00181** | **.04615** | **.02538** | **.00269** |
| Stddev | .00016 | .00289 | .00085 | .00064 | .02909 | .00007 | .00049 | .00293 |
| %RSD | .37436 | 35.963 | 1.9877 | 108.69 | 1607.9 | .15305 | 1.9500 | 109.04 |
| #1 | .04214 | .01008 | .04219 | .00014 | -.01876 | .04610 | .02503 | .00476 |
| #2 | .04236 | .00599 | .04339 | .00104 | .02238 | .04620 | .02573 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5547.1** | **69525.** | **3686.2** |
| Stddev | 19.9 | 236. | 2.5 |
| %RSD | .35879 | .33921 | .06674 |
| #1 | 5533.0 | 69692. | 3684.5 |
| #2 | 5561.1 | 69358. | 3687.9 |

Sample Name: 280-42019-B-12-B MS  Acquired: 5/17/2013 14:49:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05146** | **57.987** | **.94098** | **1.0088** | **3.4392** | **.04557** | **1.9373** | **156.44** | **.09648** |
| Stddev | .00006 | .125 | .00001 | .0028 | .0019 | .00016 | .0022 | .40 | .00034 |
| %RSD | .11268 | .21529 | .00098 | .27706 | .05409 | .34514 | .11127 | .25567 | .35020 |
| #1 | .05150 | 58.075 | .94097 | 1.0108 | 3.4405 | .04546 | 1.9388 | 156.72 | .09672 |
| #2 | .05141 | 57.899 | .94099 | 1.0068 | 3.4379 | .04568 | 1.9358 | 156.16 | .09624 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47725** | **.21191** | **.24810** | **37.526** | **66.330** | **1.0121** | **60.884** | **1.3893** | **.89015** |
| Stddev | .00203 | .00035 | .00023 | .158 | .254 | .0027 | .001 | .0001 | .00315 |
| %RSD | .42545 | .16546 | .09110 | .42187 | .38228 | .27168 | .00145 | .01003 | .35392 |
| #1 | .47869 | .21216 | .24826 | 37.638 | 66.509 | 1.0140 | 60.885 | 1.3892 | .89238 |
| #2 | .47582 | .21167 | .24794 | 37.414 | 66.151 | 1.0101 | 60.883 | 1.3894 | .88793 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.309** | **.46822** | **10.604** | **.48900** | **.61593** | **.37950** | **1.9283** | **4.5824** | **1.7679** |
| Stddev | .154 | .00197 | .041 | .00255 | .00484 | .00080 | .0060 | .0724 | .0035 |
| %RSD | .29420 | .41984 | .38669 | .52238 | .78656 | .21072 | .31230 | 1.5799 | .19804 |
| #1 | 52.200 | .46961 | 10.633 | .48719 | .61936 | .38007 | 1.9240 | 4.5313 | 1.7654 |
| #2 | 52.417 | .46683 | 10.575 | .49080 | .61251 | .37893 | 1.9325 | 4.6336 | 1.7704 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1727** | **1.0043** | **1.5053** | **1.8129** | **1.9412** | **.66750** | **.54196** | **.46433** |
| Stddev | .0036 | .0030 | .0041 | .0014 | .0004 | .00044 | .00152 | .00161 |
| %RSD | .30551 | .30283 | .27260 | .07635 | .02038 | .06649 | .28079 | .34630 |
| #1 | 1.1753 | 1.0022 | 1.5082 | 1.8119 | 1.9410 | .66781 | .54304 | .46319 |
| #2 | 1.1702 | 1.0065 | 1.5024 | 1.8139 | 1.9415 | .66719 | .54088 | .46547 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5475.2** | **68509.** | **3712.5** |
| Stddev | 23.4 | 149. | 11.3 |
| %RSD | .42647 | .21691 | .30483 |
| #1 | 5458.7 | 68404. | 3704.5 |
| #2 | 5491.7 | 68614. | 3720.5 |

Sample Name: 280-42019-B-12-C MSD  Acquired: 5/17/2013 14:51:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05093** | **49.008** | **.93702** | **.99987** | **3.2698** | **.04489** | **1.9304** | **145.52** | **.09598** |
| Stddev | .00035 | .168 | .00383 | .00061 | .0153 | .00025 | .0031 | .55 | .00019 |
| %RSD | .68177 | .34377 | .40897 | .06123 | .46853 | .54608 | .15989 | .37496 | .19789 |
| #1 | .05069 | 48.889 | .93431 | .99944 | 3.2590 | .04472 | 1.9283 | 145.14 | .09611 |
| #2 | .05118 | 49.127 | .93973 | 1.0003 | 3.2806 | .04506 | 1.9326 | 145.91 | .09584 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47519** | **.20595** | **.24681** | **35.436** | **63.119** | **.99771** | **57.386** | **1.2997** | **.88632** |
| Stddev | .00081 | .00003 | .00046 | .123 | .207 | .00390 | .047 | .0007 | .00107 |
| %RSD | .16959 | .01482 | .18684 | .34581 | .32777 | .39059 | .08171 | .05601 | .12087 |
| #1 | .47576 | .20598 | .24648 | 35.350 | 62.973 | .99496 | 57.419 | 1.2992 | .88708 |
| #2 | .47462 | .20593 | .24714 | 35.523 | 63.265 | 1.0005 | 57.353 | 1.3002 | .88557 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.136** | **.46510** | **10.372** | **.48836** | **.53694** | **.39313** | **1.9206** | **3.9743** | **1.7665** |
| Stddev | .244 | .00006 | .005 | .00106 | .00214 | .00108 | .0057 | .0417 | .0030 |
| %RSD | .46858 | .01184 | .04973 | .21804 | .39814 | .27596 | .29697 | 1.0493 | .17057 |
| #1 | 51.963 | .46514 | 10.375 | .48911 | .53543 | .39236 | 1.9166 | 4.0038 | 1.7644 |
| #2 | 52.309 | .46506 | 10.368 | .48760 | .53845 | .39390 | 1.9246 | 3.9448 | 1.7686 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1411** | **1.0037** | **1.3838** | **1.8123** | **1.9580** | **.62515** | **.53045** | **.45717** |
| Stddev | .0030 | .0014 | .0025 | .0019 | .0156 | .00002 | .00090 | .00387 |
| %RSD | .26235 | .14484 | .18235 | .10608 | .79800 | .00375 | .16879 | .84747 |
| #1 | 1.1389 | 1.0026 | 1.3820 | 1.8110 | 1.9690 | .62513 | .52982 | .45443 |
| #2 | 1.1432 | 1.0047 | 1.3856 | 1.8137 | 1.9469 | .62517 | .53109 | .45991 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5471.4** | **68866.** | **3768.1** |
| Stddev | 13.4 | 94. | 16.2 |
| %RSD | .24515 | .13622 | .42920 |
| #1 | 5461.9 | 68800. | 3779.5 |
| #2 | 5480.9 | 68933. | 3756.6 |

Sample Name: 280-42019-B-13-A  Acquired: 5/17/2013 14:53:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **25.884** | **.01827** | **.03722** | **.52171** | **.00135** | **.00145** | **139.26** | **.00024** |
| Stddev | .00006 | .191 | .00032 | .00009 | .00306 | .00016 | .00381 | .53 | .00009 |
| %RSD | 20.024 | .73686 | 1.7540 | .25152 | .58669 | 11.903 | 261.94 | .37745 | 37.256 |
| #1 | .00025 | 26.018 | .01849 | .03716 | .52388 | .00124 | .00415 | 139.63 | .00018 |
| #2 | .00034 | 25.749 | .01804 | .03729 | .51955 | .00147 | -.00124 | 138.89 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00917** | **.01360** | **.01487** | **24.244** | **11.063** | **.01657** | **8.8637** | **1.2449** | **.00233** |
| Stddev | .00032 | .00008 | .00018 | .126 | .014 | .00068 | .0077 | .0004 | .00033 |
| %RSD | 3.4451 | .57290 | 1.2093 | .51783 | .12991 | 4.1130 | .08684 | .03537 | 14.179 |
| #1 | .00895 | .01366 | .01499 | 24.333 | 11.073 | .01609 | 8.8692 | 1.2446 | .00257 |
| #2 | .00939 | .01355 | .01474 | 24.156 | 11.053 | .01705 | 8.8583 | 1.2452 | .00210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3568** | **.01216** | **.93197** | **.02240** | **.37322** | **.00228** | **.00664** | **1.7703** | **.00031** |
| Stddev | .0354 | .00039 | .00551 | .00113 | .00172 | .00019 | .00127 | .0453 | .00041 |
| %RSD | 2.6119 | 3.2139 | .59149 | 5.0391 | .46012 | 8.1537 | 19.143 | 2.5572 | 132.02 |
| #1 | 1.3818 | .01244 | .93587 | .02320 | .37443 | .00241 | .00574 | 1.8023 | .00002 |
| #2 | 1.3317 | .01188 | .92807 | .02160 | .37200 | .00215 | .00754 | 1.7383 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23803** | **.02407** | **.16315** | **-.00032** | W **-.05814** | **.09743** | **.05918** | **.01561** |
| Stddev | .00105 | .00137 | .00524 | .00126 | .01060 | .00017 | .00068 | .00219 |
| %RSD | .44104 | 5.6757 | 3.2139 | 390.95 | 18.230 | .16971 | 1.1429 | 14.019 |
| #1 | .23877 | .02311 | .16685 | -.00122 | -.06563 | .09754 | .05870 | .01406 |
| #2 | .23729 | .02504 | .15944 | .00057 | -.05064 | .09731 | .05965 | .01715 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5623.0** | **70384.** | **3834.5** |
| Stddev | 1.1 | 44. | 13.3 |
| %RSD | .01919 | .06257 | .34628 |
| #1 | 5622.2 | 70415. | 3825.1 |
| #2 | 5623.7 | 70353. | 3843.8 |

Sample Name: 280-42019-B-14-A  Acquired: 5/17/2013 14:56:14  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **41.931** | **.02959** | **.04111** | **1.0018** | **.00252** | **.00093** | **150.89** | **.00042** |
| Stddev | .00014 | .175 | .00015 | .00081 | .0058 | .00004 | .00189 | .53 | .00010 |
| %RSD | 19.820 | .41794 | .49151 | 1.9709 | .57709 | 1.6859 | 203.76 | .35184 | 23.638 |
| #1 | .00063 | 42.055 | .02969 | .04168 | 1.0059 | .00249 | -.00041 | 151.27 | .00049 |
| #2 | .00083 | 41.807 | .02949 | .04053 | .99771 | .00255 | .00226 | 150.52 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01507** | **.01792** | **.02504** | **46.366** | **13.985** | **.02562** | **11.932** | **1.5716** | **.01589** |
| Stddev | .00002 | .00024 | .00010 | .508 | .025 | .00270 | .023 | .0050 | .00006 |
| %RSD | .12809 | 1.3469 | .40266 | 1.0957 | .17632 | 10.524 | .18961 | .31685 | .39549 |
| #1 | .01508 | .01810 | .02511 | 46.725 | 14.003 | .02753 | 11.916 | 1.5681 | .01593 |
| #2 | .01506 | .01775 | .02497 | 46.007 | 13.968 | .02371 | 11.948 | 1.5752 | .01584 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5816** | **.01852** | **1.4900** | **.04028** | **1.2587** | **.00145** | **.01213** | **1.9137** | **.00100** |
| Stddev | .0370 | .00004 | .0043 | .00046 | .0021 | .00093 | .00468 | .0223 | .00041 |
| %RSD | 2.3381 | .23357 | .28735 | 1.1507 | .16308 | 63.900 | 38.581 | 1.1676 | 41.259 |
| #1 | 1.6078 | .01849 | 1.4931 | .03995 | 1.2601 | .00211 | .01543 | 1.9295 | .00129 |
| #2 | 1.5555 | .01855 | 1.4870 | .04061 | 1.2572 | .00080 | .00882 | 1.8979 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37125** | **.03588** | **.19358** | **-.00166** | **.00557** | **.15221** | **.09058** | **.02088** |
| Stddev | .00049 | .00159 | .00024 | .00253 | .06484 | .00112 | .00069 | .00134 |
| %RSD | .13111 | 4.4299 | .12278 | 152.72 | 1164.7 | .73792 | .76474 | 6.4124 |
| #1 | .37159 | .03476 | .19341 | -.00345 | .05141 | .15142 | .09009 | .02182 |
| #2 | .37091 | .03701 | .19375 | .00013 | -.04028 | .15301 | .09107 | .01993 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5653.3** | **71103.** | **3894.1** |
| Stddev | 8.5 | 126. | 3.9 |
| %RSD | .15023 | .17735 | .09962 |
| #1 | 5659.4 | 71193. | 3891.4 |
| #2 | 5647.3 | 71014. | 3896.9 |

Sample Name: 280-42019-B-15-A  Acquired: 5/17/2013 14:58:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **59.433** | **.02211** | **.03689** | **.77417** | **.00267** | **.00193** | **39.198** | **.00085** |
| Stddev | .00027 | .230 | .00209 | .00058 | .00397 | .00002 | .00158 | .120 | .00026 |
| %RSD | 49.588 | .38734 | 9.4550 | 1.5829 | .51228 | .57924 | 81.923 | .30701 | 30.301 |
| #1 | .00035 | 59.271 | .02358 | .03730 | .77137 | .00268 | .00305 | 39.113 | .00067 |
| #2 | .00073 | 59.596 | .02063 | .03648 | .77698 | .00266 | .00081 | 39.283 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02658** | **.03915** | **.03885** | **53.534** | **16.623** | **.03779** | **13.785** | **2.4074** | **.00260** |
| Stddev | .00000 | .00018 | .00006 | .019 | .095 | .00048 | .035 | .0094 | .00021 |
| %RSD | .00083 | .46348 | .14952 | .03513 | .57421 | 1.2624 | .25099 | .39174 | 8.0086 |
| #1 | .02658 | .03928 | .03889 | 53.547 | 16.555 | .03813 | 13.760 | 2.4007 | .00274 |
| #2 | .02658 | .03902 | .03881 | 53.521 | 16.690 | .03746 | 13.809 | 2.4141 | .00245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1188** | **.03370** | **1.7143** | **.05201** | **.47683** | **-.00002** | **.00396** | **5.2034** | **.00250** |
| Stddev | .0170 | .00018 | .0087 | .00015 | .00553 | .00135 | .00489 | .0223 | .00033 |
| %RSD | 1.5155 | .54890 | .50500 | .28429 | 1.1605 | 6426.9 | 123.70 | .42884 | 13.063 |
| #1 | 1.1308 | .03383 | 1.7204 | .05211 | .48074 | .00093 | .00742 | 5.1876 | .00273 |
| #2 | 1.1068 | .03357 | 1.7082 | .05190 | .47292 | -.00097 | .00050 | 5.2191 | .00227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12450** | **.04145** | **.60885** | **-.00117** | W **-.06769** | **.11518** | **.14804** | **.03665** |
| Stddev | .00035 | .00135 | .00800 | .00027 | .00118 | .00040 | .00016 | .00154 |
| %RSD | .28468 | 3.2530 | 1.3132 | 22.874 | 1.7442 | .34573 | .10881 | 4.1980 |
| #1 | .12425 | .04050 | .61450 | -.00098 | -.06686 | .11490 | .14792 | .03556 |
| #2 | .12475 | .04241 | .60320 | -.00136 | -.06853 | .11547 | .14815 | .03774 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5814.5** | **72461.** | **3862.8** |
| Stddev | 17.9 | 182. | 7.9 |
| %RSD | .30743 | .25101 | .20506 |
| #1 | 5827.2 | 72589. | 3857.2 |
| #2 | 5801.9 | 72332. | 3868.4 |

Sample Name: 280-42019-B-16-A Acquired: 5/17/2013 15:00:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **22.220** | **.02018** | **.02842** | **.85992** | **.00117** | **-.00227** | **131.42** | **.00033** |
| Stddev | .00011 | .176 | .00032 | .00087 | .00459 | .00003 | .00057 | .78 | .00010 |
| %RSD | 26.908 | .79222 | 1.5624 | 3.0547 | .53421 | 2.6224 | 25.345 | .59080 | 29.767 |
| #1 | .00050 | 22.345 | .01996 | .02904 | .86317 | .00115 | -.00267 | 131.97 | .00026 |
| #2 | .00034 | 22.096 | .02040 | .02781 | .85667 | .00119 | -.00186 | 130.87 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00931** | **.01384** | **.01359** | **25.141** | **9.3076** | **.01421** | **9.9430** | **1.1199** | **.00128** |
| Stddev | .00001 | .00017 | .00013 | .157 | .0066 | .00344 | .0116 | .0010 | .00001 |
| %RSD | .12845 | 1.2085 | .93551 | .62584 | .07074 | 24.196 | .11647 | .08791 | .43143 |
| #1 | .00932 | .01396 | .01350 | 25.252 | 9.3029 | .01664 | 9.9349 | 1.1192 | .00127 |
| #2 | .00930 | .01372 | .01368 | 25.029 | 9.3122 | .01178 | 9.9512 | 1.1206 | .00128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99550** | **.01276** | **.94726** | **.02996** | **.42786** | **-.00067** | **.00451** | **1.6064** | **-.00064** |
| Stddev | .01096 | .00002 | .00953 | .00024 | .00346 | .00220 | .00432 | .0191 | .00016 |
| %RSD | 1.1010 | .14793 | 1.0056 | .81051 | .80910 | 328.39 | 95.901 | 1.1861 | 24.541 |
| #1 | 1.0033 | .01274 | .95399 | .02979 | .43031 | -.00223 | .00145 | 1.6199 | -.00076 |
| #2 | .98775 | .01277 | .94052 | .03013 | .42541 | .00089 | .00757 | 1.5929 | -.00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19979** | **.02306** | **.17138** | **-.00074** | **-.02088** | **.10638** | **.09307** | **.01381** |
| Stddev | .00113 | .00065 | .00110 | .00061 | .02642 | .00056 | .00017 | .00230 |
| %RSD | .56568 | 2.8201 | .64111 | 83.062 | 126.50 | .52396 | .18318 | 16.623 |
| #1 | .20059 | .02352 | .17215 | -.00117 | -.03956 | .10598 | .09319 | .01218 |
| #2 | .19899 | .02260 | .17060 | -.00031 | -.00220 | .10677 | .09295 | .01543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5619.5** | **70153.** | **3752.6** |
| Stddev | 15.4 | 233. | 28.9 |
| %RSD | .27388 | .33156 | .76951 |
| #1 | 5630.4 | 70317. | 3732.2 |
| #2 | 5608.6 | 69988. | 3773.0 |

Sample Name: 41856-3 Acquired: 5/17/2013 15:03:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.09323** | **.01313** | **.02594** | **.52356** | **.00071** | **.00362** | **8.9072** | **-.00006** |
| Stddev | .00047 | .00031 | .00368 | .00009 | .00083 | .00001 | .00105 | .0456 | .00003 |
| %RSD | 55.188 | .32748 | 28.036 | .36086 | .15778 | 1.9954 | 28.950 | .51177 | 43.708 |
| #1 | .00119 | .09345 | .01574 | .02600 | .52297 | .00070 | .00436 | 8.9395 | -.00004 |
| #2 | .00052 | .09302 | .01053 | .02587 | .52414 | .00072 | .00288 | 8.8750 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01540** | **.00116** | **.00545** | **77.793** | **4.1003** | **-.00525** | **8.5424** | **.97265** | **-.00059** |
| Stddev | .00005 | .00003 | .00048 | .311 | .0931 | .00186 | .0237 | .00239 | .00023 |
| %RSD | .34415 | 2.7804 | 8.7721 | .39920 | 2.2705 | 35.506 | .27696 | .24572 | 38.605 |
| #1 | .01536 | .00118 | .00579 | 77.573 | 4.0345 | -.00393 | 8.5591 | .97434 | -.00076 |
| #2 | .01543 | .00113 | .00511 | 78.013 | 4.1662 | -.00657 | 8.5256 | .97096 | -.00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.472** | **.00969** | **.30798** | **.00180** | **2.6397** | **-.00062** | **-.00076** | **7.1396** | **-.00018** |
| Stddev | .099 | .00029 | .00209 | .00050 | .0078 | .00489 | .00069 | .0048 | .00116 |
| %RSD | .45905 | 3.0008 | .67959 | 27.670 | .29601 | 787.34 | 91.073 | .06671 | 652.57 |
| #1 | 21.402 | .00990 | .30650 | .00215 | 2.6453 | .00284 | -.00027 | 7.1430 | .00064 |
| #2 | 21.542 | .00948 | .30946 | .00145 | 2.6342 | -.00408 | -.00125 | 7.1362 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11984** | **.01966** | **.00077** | **-.00147** | **.03825** | **.00454** | **.01137** | **.00139** |
| Stddev | .00018 | .00057 | .00015 | .00039 | .01080 | .00015 | .00043 | .00201 |
| %RSD | .14759 | 2.9003 | 19.417 | 26.274 | 28.247 | 3.2589 | 3.8054 | 144.25 |
| #1 | .11972 | .01926 | .00067 | -.00120 | .03061 | .00465 | .01106 | -.00003 |
| #2 | .11997 | .02007 | .00088 | -.00175 | .04589 | .00444 | .01167 | .00282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5851.9** | **74120.** | **3872.5** |
| Stddev | 40.8 | 26. | 8.9 |
| %RSD | .69689 | .03515 | .22948 |
| #1 | 5880.8 | 74101. | 3878.8 |
| #2 | 5823.1 | 74138. | 3866.2 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 15:05:46 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01111** | **45.900** | k **-.00138** | **.01337** | k **-.00014** | k **-.00009** | k **.91652** | k **-.00792** | k **-.00085** | k **.00185** | k **.00032** | k **.00895** |
| Stddev | .00015 | .392 | .00220 | .00061 | .00018 | .00012 | .00271 | .00243 | .00001 | .00007 | .00022 | .00091 |
| %RSD | 1.3188 | .85415 | 159.45 | 4.5353 | 134.15 | 126.50 | .29529 | 30.753 | 1.3927 | 3.6794 | 69.969 | 10.146 |
| #1 | k .01101 | 46.177 | k -.00294 | .01294 | k -.00027 | k -.00001 | k .91460 | k -.00964 | k -.00084 | k .00180 | k .00047 | k .00960 |
| #2 | k .01121 | 45.622 | k .00018 | .01380 | k -.00001 | k -.00017 | k .91843 | k -.00619 | k -.00085 | k .00190 | k .00016 | k .00831 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **43.847** | **2.6121** | k **-.00052** | k **-.18421** | **.00000** | **-.00178** | **250.59** | **.00163** | **.00852** | k **.00823** | **4.7259** | k **-.01787** |
| Stddev | .199 | .0025 | .00092 | .00396 | .00005 | .00029 | 2.38 | .00034 | .00033 | .00207 | .0079 | .00060 |
| %RSD | .45443 | .09713 | 175.45 | 2.1495 | 9004.8 | 16.290 | .94843 | 20.594 | 3.9252 | 25.182 | .16706 | 3.3425 |
| #1 | k 43.988 | 2.6103 | k -.00117 | k -.18141 | .00003 | -.00199 | 252.27 | .00139 | .00829 | k .00677 | 4.7315 | k -.01745 |
| #2 | k 43.706 | 2.6139 | k .00013 | k -.18701 | -.00003 | -.00158 | 248.91 | .00187 | .00876 | k .00970 | 4.7203 | k -.01830 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01358** | k **-.00639** | k **-.00077** | **.00025** | k **5.1290** | k **.01506** | k **-.00339** | k **9.5323** | k **.00107** | **.00336** | k **.19087** |
| Stddev | .00094 | .00229 | .00096 | .00014 | .0131 | .00010 | .00065 | .0448 | .00067 | .00016 | .00033 |
| %RSD | 6.8874 | 35.794 | 124.37 | 55.355 | .25445 | .66867 | 19.106 | .46986 | 62.736 | 4.8776 | .17314 |
| #1 | k -.01292 | k -.00801 | k -.00009 | .00035 | k 5.1198 | k .01499 | k -.00293 | k 9.5006 | k .00155 | .00347 | k .19111 |
| #2 | k -.01424 | k -.00477 | k -.00145 | .00015 | k 5.1383 | k .01513 | k -.00385 | k 9.5640 | k .00060 | .00324 | k .19064 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5420.7** | **68425.** | **3623.6** |
| Stddev | 16.6 | 210. | 26.3 |
| %RSD | .30671 | .30637 | .72521 |
| #1 | 5432.5 | 68277. | 3605.0 |
| #2 | 5409.0 | 68573. | 3642.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 15:08:10 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49264** | **.48856** | **.94840** | **.50959** | **.49317** | F **.44960** | **.00376** | **4.6545** | **.48574** | **.49422** | **.47538** | **.47031** |
| Stddev | .00141 | .00028 | .00527 | .00145 | .00191 | .00217 | .00389 | .0125 | .00085 | .00060 | .00060 | .00164 |
| %RSD | .28676 | .05649 | .55578 | .28396 | .38638 | .48325 | 103.40 | .26880 | .17590 | .12176 | .12550 | .34909 |
| #1 | .49164 | .48836 | .95213 | .51061 | .49452 | .45113 | .00101 | 4.6634 | .48635 | .49379 | .47580 | .46915 |
| #2 | .49364 | .48876 | .94467 | .50856 | .49182 | .44806 | .00651 | 4.6457 | .48514 | .49465 | .47496 | .47147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1624** | **51.705** | **1.0168** | **19.083** | **.48653** | **.46575** | **5.4242** | **.48396** | **.97893** | **.98026** | **-.05135** | **.97952** |
| Stddev | .0090 | .108 | .0055 | .062 | .00216 | .00078 | .0680 | .00036 | .00310 | .00334 | .00206 | .00078 |
| %RSD | .41511 | .20908 | .54024 | .32402 | .44380 | .16755 | 1.2543 | .07416 | .31648 | .34115 | 4.0106 | .07974 |
| #1 | 2.1688 | 51.781 | 1.0207 | 19.039 | .48500 | .46631 | 5.4723 | .48421 | .97674 | .97790 | -.04990 | .97897 |
| #2 | 2.1561 | 51.628 | 1.0130 | 19.127 | .48805 | .46520 | 5.3761 | .48370 | .98112 | .98263 | -.05281 | .98008 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0016** | F **4.4195** | **.93811** | **.49999** | **.00255** | **.48226** | **.95641** | **.03707** | **.47396** | **.48079** | **.46928** |
| Stddev | .0044 | .0162 | .00312 | .00197 | .00092 | .00196 | .00000 | .00389 | .00231 | .00057 | .00220 |
| %RSD | .44102 | .36708 | .33268 | .39365 | 35.973 | .40649 | .00022 | 10.497 | .48736 | .11813 | .46794 |
| #1 | .99851 | 4.4081 | .93590 | .50139 | .00319 | .48087 | .95641 | .03432 | .47233 | .48039 | .47083 |
| #2 | 1.0048 | 4.4310 | .94032 | .49860 | .00190 | .48365 | .95641 | .03982 | .47560 | .48119 | .46773 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5527.0** | **68957.** | **3625.9** |
| Stddev | .1 | 487. | 6.0 |
| %RSD | .00100 | .70558 | .16558 |
| #1 | 5526.9 | 69301. | 3621.7 |
| #2 | 5527.0 | 68613. | 3630.1 |

Sample Name: CCB Acquired: 5/17/2013 15:10:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00098** | W **.02578** | **.00141** | F **.01141** | **-.00010** | **.00001** | **.00081** | **-.00869** | **-.00007** | **.00029** | **.00010** |
| Stddev | .00024 | .03646 | .00054 | .00152 | .00036 | .00007 | .00256 | .00422 | .00021 | .00040 | .00030 |
| %RSD | 24.420 | 141.43 | 38.396 | 13.295 | 362.89 | 959.15 | 316.87 | 48.615 | 296.37 | 139.00 | 303.55 |
| #1 | .00114 | -.00000 | .00103 | .01034 | .00016 | .00005 | -.00100 | -.01168 | -.00022 | .00000 | -.00011 |
| #2 | .00081 | .05156 | .00180 | .01249 | -.00035 | -.00004 | .00262 | -.00570 | .00008 | .00057 | .00031 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | .01800 | | .00312 | | | | | | | |
| Low Limit | -.00093 | -.01800 | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00086** | **-.00052** | F **2.1410** | W **-.00296** | **.00080** | **.00007** | **.00035** | F **.49162** | **.00068** | **.00550** | **-.00002** |
| Stddev | .00025 | .00075 | .0072 | .00018 | .00249 | .00004 | .00038 | .02629 | .00011 | .00308 | .00149 |
| %RSD | 28.625 | 143.97 | .33744 | 6.1690 | 312.23 | 59.497 | 107.88 | 5.3471 | 16.164 | 55.973 | 8004.2 |
| #1 | -.00069 | -.00104 | 2.1461 | -.00309 | .00256 | .00010 | .00008 | .51021 | .00061 | .00332 | -.00107 |
| #2 | -.00104 | .00001 | 2.1359 | -.00283 | -.00096 | .00004 | .00062 | .47303 | .00076 | .00768 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | .00261 | | | | .10000 | | | |
| Low Limit | | | -.25000 | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04419** | **.00065** | **.00186** | **.01117** | **-.00040** | **.00014** | **.00178** | **.00044** | **.00072** | **.01154** | **-.00004** |
| Stddev | .01295 | .00091 | .00043 | .00051 | .00156 | .00011 | .00321 | .00024 | .00030 | .01529 | .00053 |
| %RSD | 29.305 | 139.19 | 22.982 | 4.5696 | 390.15 | 80.437 | 180.49 | 54.153 | 41.408 | 132.53 | 1345.3 |
| #1 | -.05334 | .00130 | .00156 | .01153 | -.00150 | .00022 | .00405 | .00061 | .00051 | .02235 | .00034 |
| #2 | -.03503 | .00001 | .00216 | .01081 | .00070 | .00006 | -.00049 | .00027 | .00093 | .00073 | -.00042 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00264** | W **.00303** |
| Stddev | .00023 | .00329 |
| %RSD | 8.8247 | 108.70 |
| #1 | .00247 | .00535 |
| #2 | .00280 | .00070 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5586.5** | **71152.** | **3633.5** |
| Stddev | 19.4 | 243. | 7.4 |
| %RSD | .34728 | .34099 | .20324 |
| #1 | 5600.3 | 71323. | 3628.3 |
| #2 | 5572.8 | 70980. | 3638.7 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 15:12:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01085** | F **.13825** | **.01634** | **.11422** | **.01153** | **.00093** | **.10576** | F **.36011** | **.00482** | **.01046** | **.00988** |
| Stddev | .00036 | .00381 | .00013 | .00002 | .00075 | .00001 | .00217 | .00755 | .00018 | .00009 | .00002 |
| %RSD | 3.3110 | 2.7529 | .77060 | .02161 | 6.5385 | 1.2306 | 2.0483 | 2.0958 | 3.6646 | .82818 | .18816 |
| #1 | .01060 | .14094 | .01625 | .11420 | .01206 | .00094 | .10423 | .36545 | .00494 | .01052 | .00989 |
| #2 | .01111 | .13556 | .01643 | .11424 | .01099 | .00092 | .10729 | .35477 | .00469 | .01040 | .00986 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | .20000 | | | |
| Range | | 30.000% | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01365** | F **.15622** | F **5.5195** | W **.00731** | F **.26121** | W **.01280** | **.01904** | F **2.0724** | **.04008** | **2.9536** | **.00891** |
| Stddev | .00030 | .00736 | .0007 | .00295 | .00527 | .00024 | .00028 | .0395 | .00045 | .0013 | .00060 |
| %RSD | 2.2096 | 4.7101 | .01259 | 40.399 | 2.0163 | 1.9121 | 1.4559 | 1.9046 | 1.1203 | .04538 | 6.7852 |
| #1 | .01386 | .16142 | 5.5190 | .00939 | .26493 | .01298 | .01885 | 2.1003 | .03976 | 2.9527 | .00934 |
| #2 | .01343 | .15102 | 5.5200 | .00522 | .25748 | .01263 | .01924 | 2.0445 | .04039 | 2.9546 | .00848 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Warn | Chk Fail | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | .20000 | .01000 | | 1.0000 | | | |
| Range | | 30.000% | 30.000% | -20.000% | 30.000% | 20.000% | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03939** | **.01163** | **.01786** | **.46564** | **.09493** | **.01088** | **.01604** | **.01045** | **.01598** | F **.09043** | **.01005** |
| Stddev | .00294 | .00010 | .00202 | .04043 | .00035 | .00016 | .00148 | .00003 | .00081 | .02350 | .00002 |
| %RSD | 7.4528 | .82505 | 11.311 | 8.6833 | .36759 | 1.4772 | 9.2526 | .25734 | 5.0739 | 25.983 | .24696 |
| #1 | -.03731 | .01170 | .01643 | .49423 | .09468 | .01100 | .01499 | .01046 | .01541 | .10705 | .01003 |
| #2 | -.04147 | .01156 | .01929 | .43705 | .09517 | .01077 | .01709 | .01043 | .01656 | .07382 | .01007 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02264** | **.01663** |
| Stddev | .00034 | .00062 |
| %RSD | 1.5219 | 3.7143 |
| #1 | .02240 | .01707 |
| #2 | .02289 | .01620 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5585.5** | **70312.** | **3608.5** |
| Stddev | 3.9 | 90. | 23.7 |
| %RSD | .07020 | .12836 | .65658 |
| #1 | 5582.8 | 70376. | 3625.2 |
| #2 | 5588.3 | 70248. | 3591.7 |

Sample Name: 280-42191-A-52-A@10 Acquired: 5/17/2013 15:15:19 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **.02722** | **.00126** | **.14240** | **.00423** | **-.00004** | **.00096** | **7.3084** | **.01007** |
| Stddev | .00047 | .00027 | .00080 | .00003 | .00030 | .00009 | .00161 | .0044 | .00017 |
| %RSD | 66.013 | .99916 | 63.985 | .02043 | 7.0931 | 222.02 | 166.98 | .06044 | 1.7115 |
| #1 | .00105 | .02741 | .00069 | .14242 | .00402 | .00002 | -.00017 | 7.3115 | .00994 |
| #2 | .00038 | .02703 | .00183 | .14238 | .00445 | -.00011 | .00210 | 7.3053 | .01019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00193** | **-.00169** | **.01872** | **.04611** | **11.865** | **.03710** | **.90313** | **.00401** | **.02804** |
| Stddev | .00015 | .00026 | .00042 | .00151 | .084 | .00221 | .00157 | .00008 | .00010 |
| %RSD | 7.9660 | 15.198 | 2.2309 | 3.2774 | .70593 | 5.9625 | .17330 | 2.0452 | .34708 |
| #1 | .00204 | -.00150 | .01902 | .04718 | 11.806 | .03867 | .90424 | .00407 | .02811 |
| #2 | .00182 | -.00187 | .01843 | .04504 | 11.924 | .03554 | .90202 | .00395 | .02797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **41.506** | **.08732** | **.03270** | **.00356** | **124.13** | **.01610** | **.02071** | **.08232** | **-.00055** |
| Stddev | .633 | .00036 | .00024 | .00132 | .05 | .00166 | .00279 | .00400 | .00015 |
| %RSD | 1.5254 | .41077 | .72783 | 37.109 | .04380 | 10.308 | 13.487 | 4.8621 | 26.342 |
| #1 | 41.953 | .08707 | .03287 | .00449 | 124.17 | .01492 | .02269 | .08515 | -.00065 |
| #2 | 41.058 | .08758 | .03253 | .00262 | 124.10 | .01727 | .01874 | .07949 | -.00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07950** | **-.00006** | **.00053** | **.00242** | **.04313** | **.00125** | F **278.58** | **.00288** |
| Stddev | .00011 | .00243 | .00056 | .00006 | .00162 | .00059 | 1.16 | .00044 |
| %RSD | .13208 | 4000.1 | 105.28 | 2.4277 | 3.7648 | 47.570 | .41634 | 15.183 |
| #1 | .07957 | .00166 | .00013 | .00238 | .04198 | .00167 | 277.76 | .00319 |
| #2 | .07942 | -.00178 | .00092 | .00246 | .04428 | .00083 | 279.40 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5257.8** | **66661.** | **3451.4** |
| Stddev | 14.3 | 50. | 25.8 |
| %RSD | .27234 | .07552 | .74880 |
| #1 | 5267.9 | 66697. | 3469.7 |
| #2 | 5247.7 | 66626. | 3433.1 |

Sample Name: 280-42191-A-53-A@10 Acquired: 5/17/2013 15:17:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00777** | **.00195** | **.15263** | **.00231** | **-.00000** | **.00207** | **5.7139** | **.01402** |
| Stddev | .00051 | .00505 | .00433 | .00073 | .00034 | .00013 | .00214 | .0059 | .00012 |
| %RSD | 85.485 | 65.050 | 222.11 | .47564 | 14.518 | 4659.0 | 103.43 | .10311 | .85726 |
| #1 | .00096 | .01134 | .00501 | .15314 | .00255 | .00009 | .00056 | 5.7180 | .01394 |
| #2 | .00024 | .00419 | -.00111 | .15212 | .00208 | -.00009 | .00359 | 5.7097 | .01411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00155** | **-.00184** | **.01238** | **.03842** | **10.393** | **.04343** | **.67819** | **.00350** | **.01970** |
| Stddev | .00006 | .00028 | .00047 | .00474 | .053 | .00176 | .00331 | .00004 | .00003 |
| %RSD | 3.8827 | 15.090 | 3.8022 | 12.342 | .50770 | 4.0421 | .48753 | 1.0239 | .16590 |
| #1 | .00151 | -.00204 | .01205 | .03507 | 10.431 | .04219 | .68053 | .00353 | .01968 |
| #2 | .00160 | -.00164 | .01272 | .04177 | 10.356 | .04467 | .67585 | .00348 | .01973 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **16.237** | **.06960** | **.02232** | **.00140** | **104.69** | **.01058** | **.00903** | **.05717** | **-.00093** |
| Stddev | .144 | .00020 | .00181 | .00015 | .12 | .00033 | .00093 | .00514 | .00102 |
| %RSD | .88520 | .28310 | 8.1076 | 10.481 | .11157 | 3.0894 | 10.317 | 8.9918 | 109.95 |
| #1 | 16.339 | .06974 | .02104 | .00150 | 104.61 | .01035 | .00837 | .06081 | -.00021 |
| #2 | 16.136 | .06946 | .02360 | .00129 | 104.77 | .01082 | .00968 | .05354 | -.00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06542** | **.00126** | **.00013** | **.00342** | **.02936** | **.00045** | F **257.33** | **.00355** |
| Stddev | .00009 | .00193 | .00023 | .00147 | .05279 | .00079 | 1.89 | .00412 |
| %RSD | .13985 | 153.09 | 172.23 | 42.965 | 179.78 | 176.42 | .73315 | 116.09 |
| #1 | .06535 | .00262 | .00030 | .00238 | -.00796 | -.00011 | 255.99 | .00646 |
| #2 | .06548 | -.00010 | -.00003 | .00447 | .06669 | .00101 | 258.66 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5317.4** | **67522.** | **3491.3** |
| Stddev | 16.7 | 243. | 43.9 |
| %RSD | .31487 | .35978 | 1.2578 |
| #1 | 5305.5 | 67694. | 3460.3 |
| #2 | 5329.2 | 67351. | 3522.4 |

Sample Name: 280-42191-A-57-A@10 Acquired: 5/17/2013 15:20:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00126** | **.00312** | **-.00121** | **.25778** | **.00633** | **-.00023** | **.00188** | **48.067** | **-.00004** |
| Stddev | .00032 | .00006 | .00057 | .00164 | .00020 | .00006 | .00009 | .055 | .00009 |
| %RSD | 25.625 | 1.9016 | 47.053 | .63687 | 3.1977 | 25.581 | 4.5370 | .11535 | 239.38 |
| #1 | .00103 | .00316 | -.00080 | .25894 | .00647 | -.00019 | .00182 | 48.107 | .00003 |
| #2 | .00149 | .00307 | -.00161 | .25662 | .00618 | -.00027 | .00194 | 48.028 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **-.00049** | **.00938** | **.00833** | **12.835** | **.01517** | **19.202** | **.01008** | **.04256** |
| Stddev | .00026 | .00032 | .00026 | .00446 | .109 | .00314 | .048 | .00005 | .00005 |
| %RSD | 58.153 | 65.962 | 2.7307 | 53.524 | .84568 | 20.668 | .24800 | .54393 | .11946 |
| #1 | .00026 | -.00026 | .00920 | .01148 | 12.912 | .01295 | 19.236 | .01004 | .04260 |
| #2 | .00062 | -.00072 | .00956 | .00518 | 12.759 | .01739 | 19.168 | .01012 | .04253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.677** | **.01143** | **.01235** | **.00276** | **46.394** | **.00266** | **-.00043** | **.03211** | **-.00033** |
| Stddev | .133 | .00019 | .00136 | .00047 | .013 | .00051 | .00329 | .00562 | .00042 |
| %RSD | .84639 | 1.6548 | 11.002 | 17.125 | .02854 | 19.116 | 759.47 | 17.500 | 126.32 |
| #1 | 15.770 | .01130 | .01139 | .00309 | 46.404 | .00230 | .00189 | .02813 | -.00063 |
| #2 | 15.583 | .01157 | .01332 | .00243 | 46.385 | .00302 | -.00276 | .03608 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16781** | **.00064** | **-.00007** | **-.00058** | **.03025** | **.00088** | F **106.05** | **.00024** |
| Stddev | .00085 | .00149 | .00009 | .00040 | .01399 | .00046 | 1.37 | .00047 |
| %RSD | .50365 | 234.70 | 125.76 | 69.093 | 46.228 | 52.555 | 1.2951 | 193.58 |
| #1 | .16721 | .00169 | -.00014 | -.00030 | .04014 | .00055 | 107.02 | -.00009 |
| #2 | .16840 | -.00042 | -.00001 | -.00086 | .02036 | .00121 | 105.07 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5249.2** | **65808.** | **3408.2** |
| Stddev | 33.1 | 316. | 15.7 |
| %RSD | .63143 | .48088 | .45980 |
| #1 | 5272.7 | 65584. | 3397.1 |
| #2 | 5225.8 | 66031. | 3419.3 |

Sample Name: 280-42191-A-58-A@10 Acquired: 5/17/2013 15:22:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00178** | **.00146** | **.00163** | **.12239** | **.00256** | **.00003** | **.00072** | **4.1359** | **.00170** |
| Stddev | .00029 | .00007 | .00229 | .00065 | .00023 | .00016 | .00440 | .0128 | .00017 |
| %RSD | 16.469 | 5.1254 | 140.43 | .53429 | 9.0767 | 504.27 | 612.01 | .30861 | 9.9115 |
| #1 | .00157 | .00141 | .00326 | .12285 | .00239 | -.00008 | .00383 | 4.1449 | .00158 |
| #2 | .00199 | .00152 | .00001 | .12193 | .00272 | .00014 | -.00239 | 4.1268 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **-.00140** | **.08352** | **.00931** | **19.719** | **.00692** | **1.5313** | **.00364** | **.05627** |
| Stddev | .00015 | .00023 | .00044 | .00126 | .040 | .00209 | .0070 | .00000 | .00037 |
| %RSD | 11.093 | 16.329 | .52222 | 13.521 | .20272 | 30.285 | .46014 | .00418 | .66260 |
| #1 | .00147 | -.00124 | .08383 | .01020 | 19.691 | .00544 | 1.5263 | .00364 | .05654 |
| #2 | .00126 | -.00156 | .08322 | .00842 | 19.748 | .00840 | 1.5363 | .00364 | .05601 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.836** | **.02464** | **.01833** | **.00105** | **149.99** | **.00619** | **.00345** | **.11934** | **-.00013** |
| Stddev | .059 | .00048 | .00078 | .00086 | .12 | .00119 | .00034 | .02322 | .00020 |
| %RSD | .29659 | 1.9589 | 4.2476 | 82.013 | .07772 | 19.151 | 9.7663 | 19.456 | 149.85 |
| #1 | 19.878 | .02498 | .01888 | .00044 | 149.91 | .00536 | .00321 | .10292 | .00001 |
| #2 | 19.795 | .02430 | .01778 | .00166 | 150.07 | .00703 | .00369 | .13575 | -.00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05426** | **.00180** | **.00020** | **.00046** | **.02915** | **.00076** | F **220.93** | **.00101** |
| Stddev | .00000 | .00132 | .00066 | .00137 | .02856 | .00010 | 1.21 | .00426 |
| %RSD | .00036 | 73.479 | 324.51 | 297.55 | 97.965 | 13.696 | .54697 | 421.13 |
| #1 | .05426 | .00087 | .00067 | .00143 | .04934 | .00083 | 221.78 | .00403 |
| #2 | .05426 | .00274 | -.00026 | -.00051 | .00896 | .00068 | 220.08 | -.00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5333.9** | **66336.** | **3439.8** |
| Stddev | 39.4 | 320. | 4.1 |
| %RSD | .73811 | .48312 | .11916 |
| #1 | 5306.1 | 66109. | 3442.7 |
| #2 | 5361.8 | 66562. | 3436.9 |

Sample Name: 280-42191-A-59-A@10 Acquired: 5/17/2013 15:25:14 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.01027** | **-.00009** | **.72024** | **.00293** | **-.00002** | **.00292** | **29.717** | **.00006** |
| Stddev | .00050 | .00025 | .00057 | .00134 | .00026 | .00015 | .00199 | .016 | .00004 |
| %RSD | 84.889 | 2.4191 | 614.79 | .18566 | 8.9463 | 692.80 | 68.011 | .05466 | 61.565 |
| #1 | .00095 | .01045 | .00031 | .72119 | .00311 | .00008 | .00432 | 29.728 | .00003 |
| #2 | .00024 | .01010 | -.00049 | .71930 | .00274 | -.00013 | .00152 | 29.705 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00163** | **.00013** | **.00009** | **.01824** | **6.0216** | **.01738** | **6.6104** | **.12857** | **.00578** |
| Stddev | .00026 | .00001 | .00029 | .00483 | .0774 | .00106 | .0081 | .00039 | .00002 |
| %RSD | 15.968 | 6.1793 | 330.14 | 26.511 | 1.2849 | 6.1187 | .12241 | .30000 | .37359 |
| #1 | .00181 | .00013 | -.00012 | .01482 | 5.9668 | .01663 | 6.6046 | .12830 | .00577 |
| #2 | .00145 | .00012 | .00029 | .02166 | 6.0763 | .01813 | 6.6161 | .12885 | .00580 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.8345** | **.01062** | **.01587** | **.00069** | **25.957** | **.00286** | **.00131** | **.55219** | **-.00122** |
| Stddev | .0040 | .00061 | .00001 | .00066 | .028 | .00034 | .00275 | .01404 | .00073 |
| %RSD | .05109 | 5.7592 | .06353 | 94.825 | .10666 | 11.806 | 209.65 | 2.5421 | 59.763 |
| #1 | 7.8373 | .01105 | .01588 | .00116 | 25.937 | .00309 | .00326 | .56211 | -.00071 |
| #2 | 7.8316 | .01019 | .01586 | .00023 | 25.977 | .00262 | -.00063 | .54226 | -.00174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10946** | **.00077** | **.00049** | **.00051** | **.00847** | **.00030** | **7.6749** | **.00193** |
| Stddev | .00040 | .00156 | .00024 | .00121 | .00326 | .00037 | .0100 | .00108 |
| %RSD | .36955 | 203.29 | 49.201 | 238.30 | 38.458 | 122.01 | .13008 | 55.735 |
| #1 | .10917 | -.00033 | .00032 | .00136 | .01077 | .00004 | 7.6679 | .00269 |
| #2 | .10974 | .00187 | .00066 | -.00035 | .00617 | .00056 | 7.6820 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5305.4** | **66745.** | **3455.5** |
| Stddev | 8.3 | 411. | 7.4 |
| %RSD | .15556 | .61561 | .21509 |
| #1 | 5311.2 | 67036. | 3460.7 |
| #2 | 5299.5 | 66455. | 3450.2 |

Sample Name: 280-42191-A-60-A@10 Acquired: 5/17/2013 15:27:39 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **.00142** | **-.00025** | **1.0311** | **.00223** | **-.00014** | **.00079** | **4.6312** | **.00001** |
| Stddev | .00023 | .00045 | .00018 | .0010 | .00008 | .00019 | .00348 | .0033 | .00003 |
| %RSD | 25.715 | 31.917 | 71.380 | .10119 | 3.4989 | 140.12 | 442.26 | .07190 | 327.28 |
| #1 | .00072 | .00110 | -.00013 | 1.0304 | .00228 | -.00000 | -.00167 | 4.6288 | -.00001 |
| #2 | .00104 | .00174 | -.00038 | 1.0319 | .00217 | -.00027 | .00325 | 4.6335 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **-.00028** | **.00339** | **.01075** | **8.2999** | **.01949** | **1.3123** | **.00142** | **.02311** |
| Stddev | .00016 | .00011 | .00042 | .00301 | .0375 | .00169 | .0049 | .00003 | .00052 |
| %RSD | 96.988 | 40.676 | 12.505 | 27.978 | .45162 | 8.6795 | .37219 | 1.9053 | 2.2392 |
| #1 | .00005 | -.00020 | .00309 | .00862 | 8.2734 | .02068 | 1.3089 | .00141 | .02348 |
| #2 | .00028 | -.00036 | .00369 | .01287 | 8.3264 | .01829 | 1.3158 | .00144 | .02275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.901** | **.00317** | **.01226** | **.00135** | **38.365** | **.00162** | **.00282** | **.03324** | **-.00074** |
| Stddev | .349 | .00009 | .00043 | .00240 | .049 | .00022 | .00330 | .03617 | .00004 |
| %RSD | 2.3441 | 2.8520 | 3.4936 | 178.20 | .12747 | 13.509 | 116.97 | 108.82 | 5.1539 |
| #1 | 15.148 | .00324 | .01256 | .00305 | 38.400 | .00178 | .00515 | .00766 | -.00071 |
| #2 | 14.654 | .00311 | .01196 | -.00035 | 38.331 | .00147 | .00049 | .05882 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05325** | **.00017** | **-.00006** | **-.00013** | **.03294** | **.00049** | W **37.596** | **.00096** |
| Stddev | .00004 | .00017 | .00003 | .00163 | .01758 | .00044 | .002 | .00220 |
| %RSD | .07251 | 99.819 | 51.077 | 1256.1 | 53.383 | 90.197 | .00554 | 228.52 |
| #1 | .05322 | .00005 | -.00008 | .00102 | .02050 | .00080 | 37.594 | .00252 |
| #2 | .05327 | .00029 | -.00004 | -.00128 | .04537 | .00018 | 37.597 | -.00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5260.0** | **65828.** | **3417.0** |
| Stddev | .1 | 261. | 32.6 |
| %RSD | .00102 | .39612 | .95415 |
| #1 | 5260.0 | 65643. | 3440.1 |
| #2 | 5260.0 | 66012. | 3394.0 |

Sample Name: 280-42191-A-61-A@10 Acquired: 5/17/2013 15:30:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00094** | **.00702** | **.00033** | **1.0464** | **.00188** | **-.00006** | **.00285** | **4.7220** | **.00009** |
| Stddev | .00008 | .00020 | .00116 | .0045 | .00015 | .00001 | .00276 | .0065 | .00003 |
| %RSD | 8.2100 | 2.8851 | 348.60 | .43430 | 8.0345 | 11.898 | 96.818 | .13780 | 29.735 |
| #1 | .00099 | .00716 | .00115 | 1.0432 | .00178 | -.00006 | .00090 | 4.7174 | .00007 |
| #2 | .00089 | .00687 | -.00049 | 1.0496 | .00199 | -.00007 | .00481 | 4.7266 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **-.00010** | **.00379** | **.03778** | **8.4443** | **.01805** | **1.3341** | **.00207** | **.02298** |
| Stddev | .00022 | .00018 | .00052 | .00135 | .0461 | .00122 | .0049 | .00006 | .00004 |
| %RSD | 115.17 | 187.57 | 13.740 | 3.5725 | .54546 | 6.7643 | .36458 | 3.0174 | .16269 |
| #1 | .00035 | -.00022 | .00416 | .03873 | 8.4769 | .01891 | 1.3307 | .00203 | .02295 |
| #2 | .00004 | .00003 | .00343 | .03682 | 8.4117 | .01719 | 1.3375 | .00212 | .02301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.625** | **.00332** | **.01666** | **.00010** | **38.908** | **.00173** | **.00587** | **.03396** | **-.00069** |
| Stddev | .129 | .00012 | .00041 | .00170 | .013 | .00122 | .00422 | .00044 | .00054 |
| %RSD | .88491 | 3.7524 | 2.4624 | 1768.1 | .03258 | 70.756 | 71.994 | 1.2962 | 78.571 |
| #1 | 14.716 | .00341 | .01695 | -.00110 | 38.899 | .00260 | .00885 | .03427 | -.00107 |
| #2 | 14.533 | .00323 | .01637 | .00130 | 38.917 | .00086 | .00288 | .03365 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05428** | **-.00010** | **.00015** | **.00050** | **.05037** | **.00061** | W **37.576** | **-.00051** |
| Stddev | .00017 | .00049 | .00002 | .00148 | .05509 | .00019 | .043 | .00086 |
| %RSD | .31624 | 476.85 | 16.664 | 294.11 | 109.38 | 31.516 | .11530 | 170.20 |
| #1 | .05416 | -.00045 | .00016 | .00155 | .01141 | .00074 | 37.545 | .00010 |
| #2 | .05441 | .00025 | .00013 | -.00054 | .08933 | .00047 | 37.606 | -.00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5331.9** | **66027.** | **3357.8** |
| Stddev | 6.8 | 8. | 14.4 |
| %RSD | .12740 | .01249 | .42978 |
| #1 | 5327.1 | 66032. | 3347.6 |
| #2 | 5336.8 | 66021. | 3368.0 |

Sample Name: 280-42191-A-62-A@10 Acquired: 5/17/2013 15:32:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00591** | **.00007** | **.65682** | **.00288** | **-.00008** | **.00120** | **6.5460** | **.00027** |
| Stddev | .00002 | .00021 | .00110 | .00083 | .00034 | .00001 | .00168 | .0220 | .00019 |
| %RSD | 2.7070 | 3.6354 | 1504.4 | .12660 | 11.703 | 12.572 | 139.27 | .33642 | 70.660 |
| #1 | .00083 | .00576 | -.00070 | .65741 | .00312 | -.00009 | .00002 | 6.5305 | .00014 |
| #2 | .00080 | .00606 | .00085 | .65623 | .00264 | -.00007 | .00239 | 6.5616 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **-.00111** | **.24599** | **.01424** | **13.476** | **.01868** | **1.4036** | **.00338** | **.03386** |
| Stddev | .00019 | .00005 | .00034 | .00154 | .002 | .00061 | .0022 | .00002 | .00036 |
| %RSD | 91.786 | 4.8757 | .13734 | 10.815 | .01826 | 3.2903 | .15729 | .49499 | 1.0630 |
| #1 | .00007 | -.00107 | .24623 | .01533 | 13.477 | .01911 | 1.4052 | .00337 | .03411 |
| #2 | .00035 | -.00115 | .24575 | .01315 | 13.474 | .01824 | 1.4020 | .00339 | .03360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.684** | **.02278** | **.02006** | **.00085** | **87.680** | **.00537** | **.00354** | **.06672** | **-.00029** |
| Stddev | .736 | .00003 | .00016 | .00263 | .062 | .00064 | .00280 | .00789 | .00023 |
| %RSD | 4.1627 | .11417 | .79272 | 310.54 | .07059 | 11.909 | 79.221 | 11.826 | 79.986 |
| #1 | 17.164 | .02276 | .01994 | .00271 | 87.723 | .00583 | .00155 | .07230 | -.00012 |
| #2 | 18.205 | .02280 | .02017 | -.00101 | 87.636 | .00492 | .00552 | .06114 | -.00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07443** | **.00031** | **-.00001** | **.00135** | **.04285** | **.00020** | F **191.73** | **.00288** |
| Stddev | .00029 | .00209 | .00025 | .00029 | .01325 | .00051 | .58 | .00177 |
| %RSD | .38871 | 681.68 | 4628.8 | 21.424 | 30.915 | 259.31 | .30353 | 61.375 |
| #1 | .07422 | -.00117 | .00017 | .00156 | .05222 | .00056 | 191.32 | .00414 |
| #2 | .07463 | .00179 | -.00018 | .00115 | .03349 | -.00016 | 192.14 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5307.3** | **66405.** | **3388.9** |
| Stddev | .6 | 618. | 22.2 |
| %RSD | .01152 | .93093 | .65584 |
| #1 | 5307.8 | 66842. | 3373.2 |
| #2 | 5306.9 | 65968. | 3404.6 |

Sample Name: 280-42191-A-63-A@10 Acquired: 5/17/2013 15:34:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.00517** | **.00386** | **.22131** | **.00422** | **-.00013** | **.00106** | **20.686** | **.00030** |
| Stddev | .00000 | .00062 | .00095 | .00084 | .00013 | .00008 | .00045 | .065 | .00000 |
| %RSD | .19493 | 12.025 | 24.514 | .37829 | 3.1352 | 57.426 | 42.520 | .31457 | .37023 |
| #1 | .00068 | .00561 | .00319 | .22190 | .00432 | -.00018 | .00074 | 20.732 | .00030 |
| #2 | .00068 | .00473 | .00453 | .22072 | .00413 | -.00008 | .00138 | 20.640 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00251** | **.00025** | **.00559** | **.03350** | **9.9469** | **.00391** | **7.4007** | **.01051** | **.04176** |
| Stddev | .00004 | .00008 | .00006 | .00186 | .0828 | .00025 | .0224 | .00002 | .00013 |
| %RSD | 1.6919 | 31.538 | 1.0467 | 5.5399 | .83292 | 6.4913 | .30299 | .14551 | .30410 |
| #1 | .00248 | .00031 | .00563 | .03481 | 10.006 | .00409 | 7.4166 | .01050 | .04167 |
| #2 | .00254 | .00020 | .00555 | .03219 | 9.8883 | .00373 | 7.3849 | .01052 | .04185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.977** | **.00774** | **.01468** | **-.00055** | **43.126** | **.00283** | **.00139** | **.21952** | **-.00027** |
| Stddev | .127 | .00036 | .00087 | .00128 | .023 | .00099 | .00132 | .00403 | .00064 |
| %RSD | .91121 | 4.6802 | 5.8961 | 232.48 | .05274 | 35.010 | 94.639 | 1.8359 | 239.42 |
| #1 | 14.067 | .00748 | .01407 | -.00145 | 43.143 | .00353 | .00232 | .21667 | .00019 |
| #2 | 13.887 | .00800 | .01529 | .00035 | 43.110 | .00213 | .00046 | .22237 | -.00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10999** | **.00042** | **.00036** | **-.00016** | **.03160** | **.00046** | **7.1226** | **.00048** |
| Stddev | .00006 | .00212 | .00004 | .00029 | .02396 | .00077 | .0272 | .00256 |
| %RSD | .05041 | 500.14 | 12.189 | 178.67 | 75.817 | 166.52 | .38248 | 534.25 |
| #1 | .10995 | -.00108 | .00039 | -.00036 | .04854 | -.00008 | 7.1419 | -.00133 |
| #2 | .11003 | .00192 | .00033 | .00004 | .01466 | .00100 | 7.1034 | .00229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5272.2** | **66264.** | **3414.4** |
| Stddev | 26.6 | 494. | .1 |
| %RSD | .50455 | .74561 | .00160 |
| #1 | 5253.4 | 65914. | 3414.4 |
| #2 | 5291.0 | 66613. | 3414.5 |

Sample Name: 280-42191-A-66-A@10 Acquired: 5/17/2013 15:37:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **.00435** | **.00087** | **.15407** | **.00194** | **-.00002** | **.00807** | **6.1703** | **.00045** |
| Stddev | .00028 | .00011 | .00151 | .00087 | .00019 | .00010 | .00094 | .0107 | .00004 |
| %RSD | 21.480 | 2.6281 | 174.03 | .56265 | 9.5384 | 408.20 | 11.635 | .17293 | 8.9318 |
| #1 | .00111 | .00444 | -.00020 | .15346 | .00181 | .00004 | .00873 | 6.1627 | .00048 |
| #2 | .00151 | .00427 | .00193 | .15468 | .00208 | -.00009 | .00740 | 6.1778 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00008** | **.06826** | **.01798** | **3.5450** | **.00894** | **.97567** | **.00427** | **.00615** |
| Stddev | .00011 | .00005 | .00044 | .00123 | .0114 | .00200 | .00121 | .00005 | .00009 |
| %RSD | 18.616 | 59.344 | .64170 | 6.8122 | .32076 | 22.425 | .12402 | 1.1622 | 1.4707 |
| #1 | .00068 | .00012 | .06795 | .01885 | 3.5531 | .01036 | .97652 | .00423 | .00608 |
| #2 | .00052 | .00005 | .06857 | .01712 | 3.5370 | .00752 | .97481 | .00430 | .00621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **33.892** | **.00248** | **.02006** | **.27591** | **32.002** | **.00273** | **.00268** | **.03113** | **.08320** |
| Stddev | .186 | .00016 | .00245 | .00080 | .030 | .00227 | .00533 | .00124 | .00016 |
| %RSD | .54947 | 6.5825 | 12.198 | .29156 | .09339 | 83.040 | 199.13 | 3.9799 | .19100 |
| #1 | 34.024 | .00259 | .01833 | .27648 | 31.981 | .00113 | -.00109 | .03026 | .08331 |
| #2 | 33.761 | .00236 | .02179 | .27534 | 32.023 | .00433 | .00645 | .03201 | .08309 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04395** | **-.00045** | **.00038** | **-.00046** | **.02219** | **.00048** | **7.8695** | **-.00065** |
| Stddev | .00007 | .00294 | .00013 | .00040 | .05551 | .00009 | .0058 | .00038 |
| %RSD | .15452 | 650.55 | 34.255 | 86.003 | 250.11 | 19.569 | .07332 | 58.593 |
| #1 | .04400 | -.00253 | .00029 | -.00074 | .06145 | .00055 | 7.8735 | -.00038 |
| #2 | .04390 | .00163 | .00048 | -.00018 | -.01706 | .00042 | 7.8654 | -.00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5356.5** | **66540.** | **3443.0** |
| Stddev | 29.9 | 191. | 21.0 |
| %RSD | .55908 | .28655 | .60929 |
| #1 | 5335.4 | 66405. | 3428.2 |
| #2 | 5377.7 | 66675. | 3457.8 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 15:39:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01000** | **46.416** | k **-.00275** | **.00892** | k **.00026** | k **-.00012** | k **.91692** | k **-.01110** | k **-.00060** | k **.00185** | k **.00031** | k **.00860** |
| Stddev | .00010 | .004 | .00012 | .00022 | .00037 | .00011 | .00140 | .00098 | .00012 | .00013 | .00005 | .00052 |
| %RSD | .95212 | .00839 | 4.3773 | 2.4774 | 143.17 | 92.607 | .15219 | 8.7983 | 19.884 | 6.9346 | 15.030 | 6.0400 |
| #1 | k .00994 | 46.418 | k -.00266 | .00876 | k .00052 | k -.00020 | k .91594 | k -.01041 | k -.00052 | k .00194 | k .00034 | k .00824 |
| #2 | k .01007 | 46.413 | k -.00283 | .00907 | k -.00000 | k -.00004 | k .91791 | k -.01179 | k -.00069 | k .00176 | k .00027 | k .00897 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **43.790** | **2.3523** | k **-.00324** | k **-.18992** | **-.00013** | **-.00138** | **254.60** | **.00182** | **.00761** | k **.00811** | **4.7134** | k **-.01824** |
| Stddev | .071 | .0558 | .00030 | .00103 | .00011 | .00046 | 1.26 | .00035 | .00167 | .00040 | .0154 | .00032 |
| %RSD | .16253 | 2.3745 | 9.3334 | .54422 | 85.001 | 33.126 | .49569 | 19.127 | 21.934 | 4.9002 | .32767 | 1.7776 |
| #1 | k 43.840 | 2.3128 | k -.00303 | k -.18919 | -.00021 | -.00105 | 255.49 | .00157 | .00880 | k .00782 | 4.7244 | k -.01847 |
| #2 | k 43.739 | 2.3918 | k -.00345 | k -.19065 | -.00005 | -.00170 | 253.71 | .00206 | .00643 | k .00839 | 4.7025 | k -.01801 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01270** | k **.00610** | k **-.00036** | **.00019** | k **5.2233** | k **.01517** | k **-.00498** | k **9.6436** | k **.00119** | **.00431** | k **.18937** |
| Stddev | .00119 | .01449 | .00082 | .00013 | .0022 | .00019 | .00010 | .0373 | .00036 | .00028 | .00078 |
| %RSD | 9.3882 | 237.77 | 229.14 | 68.164 | .04159 | 1.2542 | 1.9421 | .38643 | 29.933 | 6.3909 | .41444 |
| #1 | k -.01185 | k .01635 | k .00022 | .00029 | k 5.2249 | k .01504 | k -.00505 | k 9.6700 | k .00144 | .00411 | k .18992 |
| #2 | k -.01354 | k -.00415 | k -.00094 | .00010 | k 5.2218 | k .01531 | k -.00491 | k 9.6173 | k .00094 | .00450 | k .18881 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5194.8** | **64523.** | **3402.3** |
| Stddev | 8.4 | 75. | 18.1 |
| %RSD | .16121 | .11678 | .53084 |
| #1 | 5200.7 | 64470. | 3415.1 |
| #2 | 5188.8 | 64577. | 3389.6 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 15:42:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50076** | **.48750** | **.93496** | **.50245** | **.49166** | F **.44263** | **.00172** | **4.6694** | **.48422** | **.49419** | **.47113** | **.46520** |
| Stddev | .00178 | .00023 | .00068 | .00114 | .00056 | .00226 | .00039 | .0116 | .00092 | .00006 | .00067 | .00022 |
| %RSD | .35472 | .04706 | .07282 | .22717 | .11344 | .51096 | 22.740 | .24859 | .18933 | .01262 | .14234 | .04815 |
| #1 | .49951 | .48766 | .93448 | .50326 | .49205 | .44423 | .00145 | 4.6776 | .48487 | .49423 | .47161 | .46504 |
| #2 | .50202 | .48734 | .93545 | .50165 | .49127 | .44103 | .00200 | 4.6612 | .48357 | .49414 | .47066 | .46536 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1410** | **52.671** | **1.0363** | **19.079** | **.48802** | **.45946** | **5.2297** | **.48015** | **.97248** | **.97521** | **-.04226** | **.96881** |
| Stddev | .0083 | .265 | .0060 | .065 | .00151 | .00132 | .0584 | .00102 | .00784 | .00244 | .00330 | .00170 |
| %RSD | .38656 | .50218 | .57412 | .34120 | .30841 | .28753 | 1.1169 | .21241 | .80611 | .25011 | 7.8150 | .17506 |
| #1 | 2.1468 | 52.858 | 1.0405 | 19.033 | .48695 | .46040 | 5.2710 | .48087 | .96694 | .97348 | -.03993 | .97000 |
| #2 | 2.1351 | 52.484 | 1.0321 | 19.125 | .48908 | .45853 | 5.1884 | .47943 | .97803 | .97693 | -.04460 | .96761 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99008** | F **4.4328** | **.92186** | **.50594** | **.00150** | **.48451** | **.94185** | **.05477** | **.47053** | **.48420** | **.46489** |
| Stddev | .00161 | .0014 | .00190 | .00085 | .00131 | .00144 | .00183 | .02247 | .00069 | .00139 | .00074 |
| %RSD | .16233 | .03035 | .20633 | .16781 | 87.368 | .29815 | .19412 | 41.021 | .14751 | .28678 | .15861 |
| #1 | .98894 | 4.4319 | .92051 | .50654 | .00243 | .48349 | .94315 | .03889 | .47004 | .48322 | .46541 |
| #2 | .99121 | 4.4338 | .92320 | .50534 | .00057 | .48553 | .94056 | .07066 | .47102 | .48518 | .46437 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5219.2** | **64911.** | **3365.3** |
| Stddev | 3.3 | 255. | 26.7 |
| %RSD | .06385 | .39332 | .79304 |
| #1 | 5221.6 | 65092. | 3346.4 |
| #2 | 5216.9 | 64731. | 3384.2 |

Sample Name: CCB Acquired: 5/17/2013 15:44:27 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **-.00039** | **.00018** | F **.00625** | **-.00022** | **.00005** | **.00552** | **-.00695** | **-.00024** | **-.00014** | **.00005** | **-.00080** |
| Stddev | .00018 | .00016 | .00289 | .00026 | .00043 | .00003 | .00210 | .00148 | .00007 | .00017 | .00021 | .00051 |
| %RSD | 38.800 | 41.523 | 1577.6 | 4.1037 | 194.22 | 61.744 | 37.935 | 21.216 | 29.336 | 122.60 | 471.80 | 63.471 |
| #1 | .00059 | -.00027 | .00223 | .00606 | .00008 | .00007 | .00404 | -.00591 | -.00029 | -.00002 | .00020 | -.00044 |
| #2 | .00034 | -.00050 | -.00186 | .00643 | -.00053 | .00003 | .00701 | -.00800 | -.00019 | -.00026 | -.00011 | -.00116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00415** | F **2.0085** | **-.00218** | **.00014** | **-.00002** | **.00017** | F **.35331** | **-.00005** | **.00287** | **.00098** | **-.04473** | **.00207** |
| Stddev | .00837 | .0832 | .00077 | .00242 | .00005 | .00002 | .03051 | .00034 | .00191 | .00243 | .00452 | .00048 |
| %RSD | 201.84 | 4.1419 | 35.321 | 1742.5 | 183.33 | 12.324 | 8.6344 | 661.23 | 66.635 | 249.11 | 10.097 | 22.940 |
| #1 | .01006 | 1.9497 | -.00272 | .00185 | .00001 | .00018 | .37488 | -.00029 | .00422 | -.00074 | -.04154 | .00241 |
| #2 | -.00177 | 2.0673 | -.00163 | -.00157 | -.00006 | .00015 | .33174 | .00019 | .00152 | .00270 | -.04793 | .00174 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | .25000 | | | | | .10000 | | | | | |
| Low Limit | | -.25000 | | | | | -.10000 | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00204** | **.01092** | **-.00074** | **-.00007** | **.00009** | **.00049** | **-.00091** | **.01839** | **.00088** | **.00261** | **.00008** |
| Stddev | .00310 | .01373 | .00014 | .00000 | .00245 | .00024 | .00057 | .01050 | .00003 | .00025 | .00293 |
| %RSD | 152.12 | 125.74 | 18.455 | 5.9439 | 2837.6 | 47.909 | 62.102 | 57.073 | 3.2745 | 9.3899 | 3575.4 |
| #1 | -.00015 | .00121 | -.00084 | -.00007 | -.00165 | .00066 | -.00131 | .01097 | .00090 | .00278 | .00215 |
| #2 | .00423 | .02062 | -.00064 | -.00008 | .00182 | .00033 | -.00051 | .02582 | .00086 | .00244 | -.00199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5323.8** | **66490.** | **3397.8** |
| Stddev | 15.9 | 47. | 45.3 |
| %RSD | .29907 | .07078 | 1.3326 |
| #1 | 5335.0 | 66456. | 3365.8 |
| #2 | 5312.5 | 66523. | 3429.8 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 15:46:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01145** | **.10056** | **.01587** | **.10944** | **.00977** | **.00081** | **.10723** | **.18367** | **.00493** | **.01043** | **.00968** |
| Stddev | .00020 | .00017 | .00125 | .00035 | .00088 | .00012 | .00061 | .00178 | .00013 | .00004 | .00009 |
| %RSD | 1.7862 | .17399 | 7.8616 | .32074 | 9.0407 | 14.399 | .57086 | .96894 | 2.5522 | .41205 | .90883 |
| #1 | .01131 | .10068 | .01499 | .10920 | .01040 | .00072 | .10766 | .18493 | .00485 | .01040 | .00975 |
| #2 | .01160 | .10043 | .01675 | .10969 | .00915 | .00089 | .10680 | .18241 | .00502 | .01046 | .00962 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01298** | **.08628** | F **4.9668** | F **.00670** | **.19723** | **.01003** | **.01903** | F **1.3666** | **.03981** | **2.9817** | **.00919** |
| Stddev | .00028 | .00183 | .0690 | .00244 | .00377 | .00001 | .00009 | .0141 | .00060 | .0043 | .00045 |
| %RSD | 2.1263 | 2.1165 | 1.3890 | 36.383 | 1.9104 | .05407 | .48958 | 1.0288 | 1.4964 | .14362 | 4.8922 |
| #1 | .01317 | .08757 | 5.0155 | .00498 | .19990 | .01002 | .01897 | 1.3567 | .04024 | 2.9787 | .00887 |
| #2 | .01278 | .08499 | 4.9180 | .00843 | .19457 | .01003 | .01910 | 1.3766 | .03939 | 2.9848 | .00951 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | .01000 | | | | 1.0000 | | | |
| Range | | | 30.000% | -30.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04914** | W **.01272** | W **.01930** | **.46058** | **.09382** | **.01015** | **.01653** | **.00991** | **.01575** | **.07014** | **.00996** |
| Stddev | .00201 | .00159 | .00265 | .00732 | .00035 | .00003 | .00188 | .00019 | .00034 | .01223 | .00072 |
| %RSD | 4.0904 | 12.478 | 13.727 | 1.5895 | .37300 | .28052 | 11.392 | 1.8927 | 2.1699 | 17.441 | 7.2507 |
| #1 | -.05057 | .01385 | .01743 | .46575 | .09406 | .01013 | .01520 | .00978 | .01600 | .06149 | .01047 |
| #2 | -.04772 | .01160 | .02117 | .45540 | .09357 | .01017 | .01786 | .01004 | .01551 | .07879 | .00945 |
| Check ? | None | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | .01500 | | | | | | | | |
| Range | | 20.000% | 20.000% | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02306** | **.01620** |
| Stddev | .00047 | .00133 |
| %RSD | 2.0564 | 8.2029 |
| #1 | .02273 | .01526 |
| #2 | .02340 | .01714 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5332.7** | **66396.** | **3384.2** |
| Stddev | .4 | 76. | 16.7 |
| %RSD | .00820 | .11403 | .49415 |
| #1 | 5332.4 | 66450. | 3372.4 |
| #2 | 5333.0 | 66343. | 3396.1 |

Sample Name: MB 280-173767/1-A Acquired: 5/17/2013 15:49:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00189** | **-.00040** | W **.00603** | **.00000** | **-.00002** | **.00016** | **-.00014** | **.00006** |
| Stddev | .00057 | .00001 | .00080 | .00042 | .00039 | .00018 | .00267 | .00094 | .00008 |
| %RSD | 777.46 | .54306 | 197.81 | 6.9087 | 8988.2 | 868.09 | 1642.7 | 686.70 | 141.68 |
| #1 | .00047 | .00189 | -.00097 | .00633 | .00028 | -.00015 | -.00172 | .00053 | .00012 |
| #2 | -.00033 | .00190 | .00016 | .00574 | -.00027 | .00011 | .00205 | -.00080 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.00011** | **-.00129** | **.00882** | W **1.7734** | **-.00192** | **-.00043** | **.00007** | **.00024** |
| Stddev | .00022 | .00006 | .00009 | .00370 | .0140 | .00012 | .00035 | .00002 | .00011 |
| %RSD | 223.99 | 53.774 | 7.0616 | 42.004 | .79101 | 6.4162 | 81.423 | 32.890 | 45.151 |
| #1 | .00006 | .00007 | -.00135 | .00620 | 1.7635 | -.00201 | -.00018 | .00006 | .00032 |
| #2 | -.00025 | .00015 | -.00122 | .01143 | 1.7834 | -.00183 | -.00068 | .00009 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 1.0000 | | | | |
| Low Limit | | | | | -1.0000 | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38576** | **.00004** | F **.22367** | **.00188** | **-.04363** | **.00251** | **.00470** | **.02525** | **-.00124** |
| Stddev | .01722 | .00053 | .00243 | .00043 | .00009 | .00090 | .00041 | .00691 | .00083 |
| %RSD | 4.4635 | 1283.4 | 1.0866 | 22.899 | .20042 | 35.669 | 8.6813 | 27.373 | 66.928 |
| #1 | .39793 | -.00033 | .22196 | .00157 | -.04357 | .00188 | .00441 | .02036 | -.00065 |
| #2 | .37358 | .00041 | .22539 | .00218 | -.04369 | .00314 | .00498 | .03014 | -.00183 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.00158** | **.00022** | **.00028** | **.00284** | **.00090** | **.00244** | **.00119** |
| Stddev | .00012 | .00066 | .00015 | .00025 | .01523 | .00034 | .00050 | .00069 |
| %RSD | 119.62 | 41.598 | 68.331 | 87.888 | 536.17 | 38.070 | 20.645 | 57.970 |
| #1 | -.00018 | .00204 | .00011 | .00045 | -.00793 | .00066 | .00209 | .00168 |
| #2 | -.00002 | .00111 | .00032 | .00011 | .01361 | .00115 | .00280 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5284.2** | **66364.** | **3398.6** |
| Stddev | 11.4 | 277. | 35.5 |
| %RSD | .21661 | .41718 | 1.0439 |
| #1 | 5276.2 | 66168. | 3373.5 |
| #2 | 5292.3 | 66559. | 3423.6 |

Sample Name: CS 280-173767/2-A Acquired: 5/17/2013 15:51:50 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05403** | **1.9659** | **.96501** | **1.0324** | **2.0507** | **.04642** | **2.0254** | **47.160** | **.10215** |
| Stddev | .00028 | .0013 | .00012 | .0010 | .0005 | .00015 | .0042 | .099 | .00017 |
| %RSD | .51441 | .06772 | .01240 | .09394 | .02330 | .31261 | .20534 | .20957 | .16268 |
| #1 | .05423 | 1.9649 | .96510 | 1.0317 | 2.0504 | .04632 | 2.0224 | 47.230 | .10203 |
| #2 | .05383 | 1.9668 | .96493 | 1.0331 | 2.0510 | .04653 | 2.0283 | 47.090 | .10227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50243** | **.19463** | **.23941** | **.90511** | **54.413** | **1.0657** | **48.683** | **.49767** | **.94136** |
| Stddev | .00042 | .00024 | .00097 | .00478 | .177 | .0028 | .100 | .00099 | .00010 |
| %RSD | .08414 | .12086 | .40573 | .52856 | .32543 | .26601 | .20596 | .19973 | .01112 |
| #1 | .50273 | .19480 | .23872 | .90173 | 54.538 | 1.0677 | 48.612 | .49697 | .94129 |
| #2 | .50213 | .19447 | .24010 | .90850 | 54.288 | 1.0636 | 48.754 | .49837 | .94144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.348** | **.48467** | **10.477** | **.49927** | **-.04715** | **.50626** | **2.0745** | F **9.1957** | **1.8811** |
| Stddev | .138 | .00037 | .021 | .00020 | .00040 | .00256 | .0062 | .0232 | .0016 |
| %RSD | .24906 | .07703 | .20055 | .04048 | .84210 | .50500 | .29878 | .25194 | .08679 |
| #1 | 55.446 | .48493 | 10.462 | .49941 | -.04687 | .50445 | 2.0701 | 9.2120 | 1.8822 |
| #2 | 55.251 | .48441 | 10.492 | .49913 | -.04743 | .50806 | 2.0788 | 9.1793 | 1.8799 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 11.500 | |
| Low Limit | | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0439** | **1.0619** | **.99207** | **1.9544** | **2.0878** | **.48908** | **.48874** | **.46619** |
| Stddev | .0016 | .0034 | .00395 | .0046 | .0280 | .00018 | .00044 | .00068 |
| %RSD | .15029 | .32118 | .39856 | .23484 | 1.3409 | .03617 | .08937 | .14520 |
| #1 | 1.0450 | 1.0595 | .98928 | 1.9512 | 2.0680 | .48920 | .48843 | .46571 |
| #2 | 1.0428 | 1.0643 | .99487 | 1.9577 | 2.1076 | .48895 | .48905 | .46667 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5165.2** | **65029.** | **3389.5** |
| Stddev | 14.1 | 49. | 23.2 |
| %RSD | .27327 | .07505 | .68509 |
| #1 | 5155.2 | 64994. | 3373.1 |
| #2 | 5175.2 | 65063. | 3406.0 |

Sample Name: 280-42077-C-1-D Acquired: 5/17/2013 15:54:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.15890** | **.00098** | **.09729** | **.06430** | **.00005** | **-.00114** | **105.20** | **.00017** |
| Stddev | .00005 | .00026 | .00212 | .00088 | .00069 | .00001 | .00431 | .60 | .00024 |
| %RSD | 33.463 | .16252 | 215.86 | .90407 | 1.0665 | 15.550 | 378.93 | .57349 | 142.35 |
| #1 | .00011 | .15872 | .00248 | .09667 | .06478 | .00006 | .00191 | 105.63 | -.00000 |
| #2 | .00018 | .15909 | -.00052 | .09791 | .06381 | .00005 | -.00418 | 104.77 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **.00062** | **.00058** | **.28394** | **39.468** | **.00027** | **19.765** | **.40709** | **.00036** |
| Stddev | .00006 | .00008 | .00025 | .00224 | .195 | .00048 | .012 | .00045 | .00004 |
| %RSD | 4.8123 | 12.715 | 42.705 | .79047 | .49340 | 176.76 | .06319 | .11161 | 9.7353 |
| #1 | .00117 | .00056 | .00076 | .28235 | 39.605 | .00062 | 19.756 | .40676 | .00034 |
| #2 | .00125 | .00067 | .00041 | .28553 | 39.330 | -.00007 | 19.774 | .40741 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **84.802** | **.00327** | **.56346** | **.00112** | **8.6556** | **.00146** | **.00630** | **4.7888** | **-.00105** |
| Stddev | .276 | .00006 | .00202 | .00047 | .0009 | .00262 | .00170 | .0614 | .00053 |
| %RSD | .32559 | 1.9338 | .35886 | 42.120 | .01080 | 178.82 | 27.057 | 1.2812 | 50.484 |
| #1 | 84.997 | .00323 | .56489 | .00079 | 8.6549 | -.00039 | .00751 | 4.8322 | -.00143 |
| #2 | 84.607 | .00332 | .56203 | .00146 | 8.6563 | .00331 | .00510 | 4.7454 | -.00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25911** | **.00339** | **.00311** | **.00195** | **-.03591** | **.00108** | **.05656** | **-.00055** |
| Stddev | .00126 | .00189 | .00029 | .00000 | .00863 | .00026 | .00149 | .00040 |
| %RSD | .48607 | 55.863 | 9.2049 | .04948 | 24.040 | 23.876 | 2.6389 | 72.316 |
| #1 | .26000 | .00473 | .00331 | .00195 | -.02980 | .00127 | .05551 | -.00083 |
| #2 | .25822 | .00205 | .00291 | .00195 | -.04201 | .00090 | .05762 | -.00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5135.7** | **64832.** | **3331.4** |
| Stddev | 7.9 | 38. | 34.9 |
| %RSD | .15436 | .05883 | 1.0473 |
| #1 | 5130.1 | 64859. | 3306.7 |
| #2 | 5141.3 | 64805. | 3356.1 |

Sample Name: 280-42077-C-2-B Acquired: 5/17/2013 15:56:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **2.2119** | **.00109** | **.06846** | **.04943** | **.00014** | **-.00055** | **88.557** | **.00018** |
| Stddev | .00012 | .0049 | .00097 | .00048 | .00034 | .00015 | .00191 | .167 | .00007 |
| %RSD | 18.456 | .21957 | 88.308 | .70125 | .68571 | 109.00 | 345.45 | .18831 | 39.776 |
| #1 | .00056 | 2.2085 | .00178 | .06812 | .04967 | .00024 | .00080 | 88.439 | .00024 |
| #2 | .00073 | 2.2154 | .00041 | .06880 | .04919 | .00003 | -.00191 | 88.675 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00235** | **.00202** | **.00100** | **3.2920** | **6.7776** | **.00022** | **13.526** | **.72175** | **.00071** |
| Stddev | .00004 | .00006 | .00025 | .0043 | .0052 | .00140 | .077 | .00404 | .00029 |
| %RSD | 1.6378 | 3.1514 | 25.214 | .13021 | .07632 | 649.23 | .57025 | .55930 | 40.981 |
| #1 | .00232 | .00207 | .00118 | 3.2950 | 6.7740 | .00121 | 13.472 | .71890 | .00051 |
| #2 | .00238 | .00198 | .00082 | 3.2889 | 6.7813 | -.00077 | 13.581 | .72461 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.108** | **.00399** | **1.1183** | **.00290** | **25.078** | **.00321** | **.00259** | **5.2368** | **-.00126** |
| Stddev | .428 | .00054 | .0018 | .00027 | .065 | .00306 | .00175 | .0022 | .00028 |
| %RSD | 2.1297 | 13.461 | .16254 | 9.4263 | .25812 | 95.516 | 67.575 | .04170 | 22.529 |
| #1 | 19.805 | .00437 | 1.1170 | .00271 | 25.032 | .00537 | .00135 | 5.2383 | -.00106 |
| #2 | 20.411 | .00361 | 1.1196 | .00310 | 25.124 | .00104 | .00382 | 5.2352 | -.00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17794** | **.00468** | **.03045** | **.00019** | **.02973** | **.00329** | **.06520** | **.00492** |
| Stddev | .00072 | .00388 | .00036 | .00038 | .05920 | .00034 | .00037 | .00085 |
| %RSD | .40324 | 82.972 | 1.1883 | 194.83 | 199.10 | 10.212 | .57456 | 17.354 |
| #1 | .17845 | .00742 | .03019 | -.00007 | -.01213 | .00353 | .06546 | .00432 |
| #2 | .17744 | .00193 | .03070 | .00046 | .07159 | .00305 | .06493 | .00553 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5222.3** | **65618.** | **3399.5** |
| Stddev | 12.1 | 122. | 5.6 |
| %RSD | .23126 | .18569 | .16386 |
| #1 | 5230.9 | 65704. | 3403.4 |
| #2 | 5213.8 | 65532. | 3395.6 |

Sample Name: sd 280-42077-C-2-B@5 Acquired: 5/17/2013 15:58:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.46122** | **.00255** | **.01715** | **.01006** | **.00007** | **.00152** | **17.615** | **.00007** |
| Stddev | .00026 | .00050 | .00052 | .00012 | .00023 | .00005 | .00022 | .034 | .00030 |
| %RSD | 53.031 | .10856 | 20.369 | .68939 | 2.2496 | 76.840 | 14.687 | .19276 | 416.71 |
| #1 | .00031 | .46087 | .00219 | .01706 | .01022 | .00010 | .00136 | 17.639 | .00028 |
| #2 | .00068 | .46157 | .00292 | .01723 | .00990 | .00003 | .00167 | 17.591 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00037** | **-.00062** | **.66453** | **2.7074** | **.00110** | **2.6960** | **.14266** | **.00022** |
| Stddev | .00048 | .00017 | .00009 | .00300 | .0460 | .00060 | .0035 | .00002 | .00002 |
| %RSD | 75.953 | 45.701 | 15.350 | .45103 | 1.6989 | 54.088 | .13047 | .01349 | 7.9323 |
| #1 | .00098 | .00048 | -.00068 | .66664 | 2.7399 | .00153 | 2.6935 | .14265 | .00021 |
| #2 | .00029 | .00025 | -.00055 | .66241 | 2.6748 | .00068 | 2.6985 | .14268 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8805** | **.00129** | **.21940** | **.00103** | **4.8367** | **.00214** | **-.00009** | **1.0111** | **-.00058** |
| Stddev | .0140 | .00036 | .00028 | .00116 | .0157 | .00121 | .00496 | .0179 | .00063 |
| %RSD | .36108 | 27.589 | .12681 | 112.36 | .32384 | 56.758 | 5733.5 | 1.7667 | 109.01 |
| #1 | 3.8904 | .00155 | .21960 | .00185 | 4.8478 | .00128 | .00342 | 1.0238 | -.00013 |
| #2 | 3.8706 | .00104 | .21921 | .00021 | 4.8256 | .00300 | -.00360 | .99851 | -.00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03544** | **.00453** | **.00618** | **-.00051** | **-.01004** | **.00126** | **.04469** | **.00065** |
| Stddev | .00008 | .00290 | .00028 | .00038 | .04272 | .00079 | .00101 | .00078 |
| %RSD | .22245 | 64.022 | 4.5478 | 75.129 | 425.45 | 63.010 | 2.2674 | 120.66 |
| #1 | .03550 | .00658 | .00638 | -.00024 | -.04024 | .00182 | .04541 | .00120 |
| #2 | .03538 | .00248 | .00598 | -.00078 | .02016 | .00070 | .04398 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5362.1** | **66953.** | **3397.8** |
| Stddev | 18.4 | 11. | 16.6 |
| %RSD | .34311 | .01664 | .48881 |
| #1 | 5349.1 | 66945. | 3386.0 |
| #2 | 5375.1 | 66961. | 3409.5 |

Sample Name: 280-42077-C-2-C MS  Acquired: 5/17/2013 16:01:17  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05423** | **8.3354** | **.96974** | **1.1060** | **2.1035** | **.04577** | **2.0129** | **133.24** | **.10198** |
| Stddev | .00006 | .0448 | .00706 | .0015 | .0017 | .00002 | .0134 | .18 | .00020 |
| %RSD | .11411 | .53742 | .72753 | .13329 | .08084 | .03348 | .66553 | .13845 | .20077 |
| #1 | .05427 | 8.3038 | .97473 | 1.1070 | 2.1023 | .04578 | 2.0224 | 133.37 | .10212 |
| #2 | .05418 | 8.3671 | .96475 | 1.1050 | 2.1047 | .04576 | 2.0034 | 133.11 | .10183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49575** | **.19610** | **.24334** | **4.5931** | **60.012** | **1.0679** | **61.648** | **1.2482** | **.93634** |
| Stddev | .00113 | .00042 | .00046 | .0030 | .222 | .0046 | .002 | .0001 | .00122 |
| %RSD | .22725 | .21296 | .18814 | .06450 | .37061 | .43565 | .00312 | .00811 | .12977 |
| #1 | .49655 | .19639 | .24302 | 4.5952 | 60.169 | 1.0712 | 61.647 | 1.2482 | .93720 |
| #2 | .49496 | .19580 | .24367 | 4.5910 | 59.855 | 1.0647 | 61.649 | 1.2481 | .93548 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **73.626** | **.47934** | **11.454** | **.49406** | **25.078** | **.50772** | **2.0564** | **20.282** | **1.8617** |
| Stddev | .187 | .00114 | .019 | .00010 | .030 | .00259 | .0021 | .019 | .0075 |
| %RSD | .25423 | .23696 | .16932 | .01995 | .11938 | .51037 | .09967 | .09507 | .40372 |
| #1 | 73.494 | .48014 | 11.468 | .49399 | 25.099 | .50956 | 2.0579 | 20.268 | 1.8671 |
| #2 | 73.759 | .47853 | 11.440 | .49413 | 25.057 | .50589 | 2.0550 | 20.295 | 1.8564 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2149** | **1.0538** | **1.0424** | **1.9068** | **2.0706** | **.49206** | **.52173** | **.46776** |
| Stddev | .0018 | .0015 | .0002 | .0054 | .0229 | .00189 | .00082 | .00136 |
| %RSD | .14562 | .14194 | .01851 | .28483 | 1.1055 | .38492 | .15754 | .29044 |
| #1 | 1.2161 | 1.0528 | 1.0425 | 1.9107 | 2.0868 | .49340 | .52231 | .46872 |
| #2 | 1.2136 | 1.0549 | 1.0423 | 1.9030 | 2.0544 | .49072 | .52114 | .46680 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5196.9** | **65206.** | **3426.0** |
| Stddev | 21.5 | 141. | 3.3 |
| %RSD | .41367 | .21553 | .09656 |
| #1 | 5181.7 | 65106. | 3428.4 |
| #2 | 5212.1 | 65305. | 3423.7 |

Sample Name: 280-42077-C-2-D MSD  Acquired: 5/17/2013 16:03:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05249** | **8.3597** | **.94242** | **1.0941** | **2.0560** | **.04474** | **1.9692** | **131.84** | **.09965** |
| Stddev | .00132 | .0208 | .00121 | .0012 | .0070 | .00023 | .0001 | .16 | .00031 |
| %RSD | 2.5223 | .24872 | .12799 | .11231 | .33909 | .51278 | .00571 | .12211 | .30643 |
| #1 | .05155 | 8.3450 | .94157 | 1.0950 | 2.0510 | .04458 | 1.9693 | 131.72 | .09986 |
| #2 | .05343 | 8.3744 | .94327 | 1.0932 | 2.0609 | .04490 | 1.9691 | 131.95 | .09943 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48666** | **.19137** | **.23801** | **4.6121** | **58.749** | **1.0409** | **60.603** | **1.2421** | **.92041** |
| Stddev | .00112 | .00036 | .00078 | .0082 | .074 | .0037 | .077 | .0031 | .00154 |
| %RSD | .22931 | .18748 | .32743 | .17715 | .12621 | .35058 | .12674 | .24553 | .16708 |
| #1 | .48745 | .19162 | .23856 | 4.6063 | 58.801 | 1.0383 | 60.657 | 1.2443 | .92149 |
| #2 | .48587 | .19111 | .23746 | 4.6179 | 58.696 | 1.0435 | 60.549 | 1.2399 | .91932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **73.342** | **.46788** | **11.241** | **.48598** | **25.098** | **.50367** | **2.0118** | **20.159** | **1.8195** |
| Stddev | .095 | .00138 | .009 | .00091 | .062 | .00028 | .0090 | .113 | .0055 |
| %RSD | .12972 | .29526 | .07855 | .18744 | .24574 | .05637 | .44719 | .56071 | .29985 |
| #1 | 73.409 | .46886 | 11.247 | .48534 | 25.142 | .50387 | 2.0181 | 20.239 | 1.8234 |
| #2 | 73.274 | .46690 | 11.235 | .48663 | 25.055 | .50347 | 2.0054 | 20.079 | 1.8157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1926** | **1.0335** | **1.0311** | **1.8641** | **2.0773** | **.48274** | **.48227** | **.45638** |
| Stddev | .0009 | .0001 | .0025 | .0052 | .0474 | .00227 | .00167 | .00213 |
| %RSD | .07261 | .01402 | .23846 | .27639 | 2.2804 | .47051 | .34703 | .46702 |
| #1 | 1.1920 | 1.0336 | 1.0329 | 1.8678 | 2.0438 | .48435 | .48345 | .45789 |
| #2 | 1.1932 | 1.0334 | 1.0294 | 1.8605 | 2.1108 | .48113 | .48108 | .45488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5165.8** | **65336.** | **3448.8** |
| Stddev | 9.2 | 281. | 2.7 |
| %RSD | .17799 | .43011 | .07876 |
| #1 | 5172.3 | 65138. | 3450.8 |
| #2 | 5159.3 | 65535. | 3446.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 16:05:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **48.470** | **.00031** | **.00704** | **.00076** | **-.00020** | **.98264** | **.00613** | **-.00079** | **.00197** | **-.00014** | **-.00338** | **45.452** |
| Stddev | .00012 | .346 | .00090 | .00026 | .00017 | .00005 | .00238 | .00634 | .00006 | .00033 | .00014 | .00031 | .249 |
| %RSD | 19.295 | .71317 | 288.03 | 3.6647 | 22.619 | 24.062 | .24208 | 103.43 | 7.9888 | 16.544 | 98.736 | 9.2794 | .54877 |
| #1 | -.00070 | 48.225 | -.00032 | .00723 | .00088 | -.00017 | .98432 | .01061 | -.00074 | .00174 | -.00024 | -.00315 | 45.276 |
| #2 | -.00053 | 48.714 | .00095 | .00686 | .00064 | -.00023 | .98095 | .00165 | -.00083 | .00220 | -.00004 | -.00360 | 45.629 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9525** | **-.00062** | **.01333** | **-.00014** | **-.00180** | **267.98** | **.00172** | **.00870** | **.00203** | **4.9045** | **.00184** | **.00654** | **.01404** |
| Stddev | .0425 | .00051 | .00012 | .00016 | .00009 | 1.56 | .00019 | .00136 | .00015 | .0027 | .00026 | .00234 | .00435 |
| %RSD | 2.1794 | 83.070 | .86579 | 112.57 | 5.0542 | .58382 | 10.755 | 15.684 | 7.5755 | .05572 | 13.892 | 35.751 | 31.016 |
| #1 | 1.9225 | -.00025 | .01324 | -.00025 | -.00174 | 266.88 | .00159 | .00967 | .00193 | 4.9025 | .00202 | .00489 | .01096 |
| #2 | 1.9826 | -.00098 | .01341 | -.00003 | -.00187 | 269.09 | .00185 | .00774 | .00214 | 4.9064 | .00166 | .00820 | .01711 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00103** | **.00046** | **5.1972** | **.00411** | **-.00198** | **10.060** | **.00028** | **.00397** | **-.06530** |
| Stddev | .00004 | .00016 | .0126 | .00005 | .00171 | .002 | .00078 | .00014 | .00218 |
| %RSD | 3.7705 | 33.444 | .24296 | 1.2460 | 86.367 | .01670 | 283.13 | 3.4850 | 3.3400 |
| #1 | -.00100 | .00035 | 5.2061 | .00414 | -.00077 | 10.062 | .00083 | .00387 | -.06376 |
| #2 | -.00106 | .00057 | 5.1883 | .00407 | -.00319 | 10.059 | -.00028 | .00407 | -.06684 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5177.0** | **64869.** | **3354.6** |
| Stddev | 1.6 | 223. | 13.2 |
| %RSD | .03103 | .34389 | .39225 |
| #1 | 5178.1 | 64711. | 3363.9 |
| #2 | 5175.8 | 65027. | 3345.3 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 16:08:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51108** | **.50080** | **.94544** | **.51289** | **.50471** | F **.44742** | **.00540** | **4.6940** | **.49467** | **.50431** | **.47626** | **.47248** |
| Stddev | .00068 | .00015 | .00128 | .00004 | .00069 | .00019 | .00357 | .0026 | .00024 | .00086 | .00026 | .00000 |
| %RSD | .13243 | .02929 | .13562 | .00724 | .13756 | .04290 | 66.113 | .05436 | .04902 | .16987 | .05443 | .00046 |
| #1 | .51156 | .50091 | .94635 | .51286 | .50520 | .44755 | .00287 | 4.6958 | .49484 | .50370 | .47644 | .47248 |
| #2 | .51060 | .50070 | .94454 | .51292 | .50422 | .44728 | .00792 | 4.6922 | .49449 | .50491 | .47607 | .47248 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1194** | **53.117** | **1.0593** | **19.243** | **.49597** | **.46304** | **5.2887** | **.48661** | **.99814** | **.99542** | **-.04766** | **.99067** |
| Stddev | .0127 | .110 | .0028 | .040 | .00109 | .00015 | .0347 | .00001 | .00301 | .00084 | .00308 | .00046 |
| %RSD | .59889 | .20780 | .26685 | .20585 | .21943 | .03225 | .65572 | .00216 | .30107 | .08451 | 6.4570 | .04663 |
| #1 | 2.1104 | 53.195 | 1.0613 | 19.215 | .49520 | .46293 | 5.3132 | .48662 | .99602 | .99602 | -.04548 | .99034 |
| #2 | 2.1283 | 53.039 | 1.0573 | 19.271 | .49674 | .46315 | 5.2642 | .48660 | 1.0003 | .99483 | -.04983 | .99100 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0226** | F **4.4345** | **.92909** | **.51642** | **.00415** | **.49415** | **.95422** | **.02504** | **.47728** | **.48848** | **.46974** |
| Stddev | .0049 | .0028 | .00220 | .00008 | .00182 | .00115 | .00092 | .00572 | .00246 | .00002 | .00043 |
| %RSD | .47855 | .06272 | .23704 | .01632 | 43.921 | .23300 | .09674 | 22.853 | .51646 | .00325 | .09228 |
| #1 | 1.0261 | 4.4325 | .93065 | .51636 | .00544 | .49334 | .95487 | .02100 | .47554 | .48850 | .47005 |
| #2 | 1.0191 | 4.4364 | .92754 | .51648 | .00286 | .49497 | .95357 | .02909 | .47902 | .48847 | .46943 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5275.8** | **65581.** | **3396.7** |
| Stddev | 31.1 | 208. | 17.3 |
| %RSD | .59017 | .31693 | .50805 |
| #1 | 5253.8 | 65728. | 3384.5 |
| #2 | 5297.8 | 65434. | 3408.9 |

Sample Name: CCB Acquired: 5/17/2013 16:10:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **-.00005** | **.00088** | F **.00509** | **-.00028** | **.00001** | **.00118** | **-.00920** | **.00015** | **-.00007** | **-.00005** |
| Stddev | .00025 | .00001 | .00286 | .00036 | .00001 | .00003 | .00005 | .00091 | .00016 | .00020 | .00011 |
| %RSD | 30.264 | 22.722 | 325.21 | 7.1590 | 1.8501 | 178.31 | 4.1012 | 9.8487 | 106.03 | 287.75 | 207.97 |
| #1 | .00066 | -.00005 | .00290 | .00535 | -.00028 | .00003 | .00121 | -.00856 | .00004 | .00007 | .00002 |
| #2 | .00102 | -.00004 | -.00114 | .00483 | -.00027 | -.00000 | .00114 | -.00984 | .00026 | -.00021 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00130** | **-.00112** | F **1.4774** | W **-.00326** | **-.00056** | **.00003** | **.00053** | F **.37874** | **.00048** | **.00196** | **-.00133** |
| Stddev | .00011 | .00069 | .0436 | .00053 | .00321 | .00003 | .00031 | .00622 | .00005 | .00015 | .00057 |
| %RSD | 8.5628 | 61.797 | 2.9501 | 16.168 | 574.12 | 115.54 | 57.852 | 1.6417 | 10.223 | 7.6224 | 42.751 |
| #1 | -.00138 | -.00063 | 1.5082 | -.00363 | -.00283 | .00005 | .00032 | .38314 | .00052 | .00185 | -.00173 |
| #2 | -.00122 | -.00161 | 1.4466 | -.00289 | .00171 | .00000 | .00075 | .37434 | .00045 | .00206 | -.00093 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | .00261 | | | | .10000 | | | |
| Low Limit | | | -.25000 | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05179** | W **.00382** | **.00294** | **.00168** | **-.00091** | **-.00011** | **.00146** | **.00007** | **.00072** | **.04685** | **.00014** |
| Stddev | .00039 | .00377 | .00040 | .01575 | .00053 | .00012 | .00084 | .00016 | .00040 | .01189 | .00026 |
| %RSD | .76070 | 98.607 | 13.671 | 935.11 | 58.001 | 104.55 | 57.291 | 237.24 | 55.608 | 25.384 | 184.38 |
| #1 | -.05207 | .00649 | .00323 | -.00945 | -.00129 | -.00003 | .00206 | .00018 | .00100 | .03844 | -.00004 |
| #2 | -.05152 | .00116 | .00266 | .01282 | -.00054 | -.00019 | .00087 | -.00005 | .00043 | .05526 | .00033 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00216** | F **.00487** |
| Stddev | .00001 | .00079 |
| %RSD | .68362 | 16.205 |
| #1 | .00217 | .00431 |
| #2 | .00215 | .00543 |
| Check ? | Chk Pass | Chk Fail |
| High Limit | | .00476 |
| Low Limit | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5262.3** | **67206.** | **3393.7** |
| Stddev | 15.4 | 973. | 8.8 |
| %RSD | .29283 | 1.4482 | .25811 |
| #1 | 5273.2 | 67894. | 3387.5 |
| #2 | 5251.4 | 66517. | 3399.8 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 16:12:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01127** | **.11251** | **.01664** | **.10913** | **.01091** | **.00089** | **.10738** | **.23527** | **.00506** | **.01081** | **.00973** |
| Stddev | .00083 | .00021 | .00255 | .00063 | .00014 | .00010 | .00183 | .00423 | .00009 | .00030 | .00002 |
| %RSD | 7.3588 | .18886 | 15.291 | .57817 | 1.2487 | 10.993 | 1.6997 | 1.7995 | 1.7331 | 2.7371 | .18251 |
| #1 | .01186 | .11236 | .01484 | .10958 | .01101 | .00095 | .10609 | .23826 | .00500 | .01102 | .00974 |
| #2 | .01069 | .11266 | .01844 | .10868 | .01082 | .00082 | .10867 | .23228 | .00512 | .01060 | .00972 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01319** | **.09357** | F **4.5604** | **.00946** | **.22054** | **.01058** | **.01891** | F **1.4013** | **.04061** | **3.0190** | **.00927** |
| Stddev | .00003 | .00276 | .0024 | .00095 | .00202 | .00008 | .00008 | .0084 | .00022 | .0036 | .00048 |
| %RSD | .25983 | 2.9514 | .05316 | 10.050 | .91488 | .74871 | .40251 | .60057 | .54459 | .11873 | 5.2177 |
| #1 | .01322 | .09552 | 4.5587 | .01013 | .22196 | .01052 | .01886 | 1.3953 | .04046 | 3.0164 | .00962 |
| #2 | .01317 | .09162 | 4.5621 | .00879 | .21911 | .01063 | .01897 | 1.4072 | .04077 | 3.0215 | .00893 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | | | 1.0000 | | | |
| Range | | | 30.000% | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04010** | **.01102** | **.01576** | **.44419** | **.09449** | **.01095** | W **.01901** | **.01068** | **.01555** | F **.08244** | **.00957** |
| Stddev | .00139 | .00231 | .00177 | .00316 | .00060 | .00020 | .00004 | .00018 | .00110 | .00400 | .00015 |
| %RSD | 3.4644 | 20.930 | 11.258 | .71124 | .63836 | 1.8476 | .21141 | 1.6853 | 7.0952 | 4.8508 | 1.6071 |
| #1 | -.03911 | .01266 | .01702 | .44196 | .09407 | .01081 | .01904 | .01081 | .01633 | .07961 | .00968 |
| #2 | -.04108 | .00939 | .01451 | .44643 | .09492 | .01109 | .01899 | .01055 | .01477 | .08526 | .00946 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | .01500 | | | .06000 | |
| Range | | | | | | | 20.000% | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.03368** | **.01545** |
| Stddev | .00047 | .00100 |
| %RSD | 1.3931 | 6.4664 |
| #1 | .03335 | .01475 |
| #2 | .03401 | .01616 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5314.2** | **66597.** | **3417.3** |
| Stddev | 13.8 | 5. | 27.5 |
| %RSD | .25960 | .00758 | .80518 |
| #1 | 5304.5 | 66593. | 3436.7 |
| #2 | 5324.0 | 66600. | 3397.8 |

Sample Name: 280-42077-C-3-B Acquired: 5/17/2013 16:15:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00106** | **.78630** | **.00258** | **.02614** | **.03013** | **-.00001** | **.00196** | **52.666** | **.00014** |
| Stddev | .00032 | .00036 | .00182 | .00041 | .00038 | .00008 | .00225 | .249 | .00003 |
| %RSD | 30.069 | .04582 | 70.559 | 1.5572 | 1.2607 | 940.71 | 114.59 | .47207 | 25.185 |
| #1 | .00084 | .78655 | .00387 | .02643 | .02986 | -.00006 | .00355 | 52.491 | .00011 |
| #2 | .00129 | .78604 | .00129 | .02585 | .03040 | .00005 | .00037 | 52.842 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.00083** | **-.00085** | **.80063** | **6.8354** | **.00099** | **6.4956** | **.10864** | **.00054** |
| Stddev | .00005 | .00003 | .00001 | .00095 | .0459 | .00257 | .0016 | .00006 | .00015 |
| %RSD | 5.2825 | 4.1963 | .69684 | .11823 | .67113 | 258.57 | .02483 | .05636 | 27.572 |
| #1 | .00094 | .00081 | -.00084 | .80130 | 6.8678 | -.00082 | 6.4967 | .10859 | .00065 |
| #2 | .00101 | .00086 | -.00085 | .79996 | 6.8030 | .00281 | 6.4944 | .10868 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.405** | **.00160** | **.95444** | **.00127** | **4.5395** | **.00329** | **.00235** | **4.1726** | **-.00053** |
| Stddev | .405 | .00039 | .00386 | .00006 | .0017 | .00160 | .00363 | .0198 | .00080 |
| %RSD | 2.6293 | 24.624 | .40484 | 4.3868 | .03745 | 48.461 | 154.39 | .47555 | 151.14 |
| #1 | 15.692 | .00132 | .95718 | .00131 | 4.5407 | .00217 | .00492 | 4.1866 | .00004 |
| #2 | 15.119 | .00188 | .95171 | .00123 | 4.5383 | .00442 | -.00022 | 4.1585 | -.00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09446** | **.00125** | **.01156** | **.00013** | **.03297** | **.00184** | **.01570** | **.00052** |
| Stddev | .00008 | .00176 | .00008 | .00045 | .04935 | .00000 | .00095 | .00021 |
| %RSD | .08344 | 141.73 | .65114 | 338.98 | 149.71 | .06010 | 6.0426 | 40.927 |
| #1 | .09452 | .00249 | .01150 | .00045 | -.00193 | .00184 | .01503 | .00067 |
| #2 | .09441 | -.00000 | .01161 | -.00018 | .06786 | .00184 | .01637 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5256.8** | **65683.** | **3373.3** |
| Stddev | 20.0 | 190. | 6.8 |
| %RSD | .38074 | .28897 | .20109 |
| #1 | 5242.6 | 65549. | 3368.5 |
| #2 | 5270.9 | 65817. | 3378.1 |

Sample Name: 280-42077-C-4-B Acquired: 5/17/2013 16:17:41 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **.55381** | **-.00068** | **.01985** | **.02330** | **.00002** | **.00092** | **47.032** | **.00007** |
| Stddev | .00032 | .00022 | .00057 | .00055 | .00042 | .00002 | .00006 | .168 | .00025 |
| %RSD | 23.781 | .04053 | 83.964 | 2.7613 | 1.7897 | 112.31 | 6.5040 | .35653 | 345.13 |
| #1 | .00158 | .55366 | -.00028 | .02024 | .02301 | .00004 | .00096 | 46.913 | -.00010 |
| #2 | .00112 | .55397 | -.00109 | .01946 | .02360 | .00000 | .00088 | 47.151 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00047** | **-.00041** | **.49570** | **5.2675** | **.00151** | **5.4703** | **.08303** | **.00048** |
| Stddev | .00025 | .00003 | .00046 | .00160 | .0285 | .00079 | .0042 | .00007 | .00011 |
| %RSD | 39.269 | 6.9543 | 111.96 | .32317 | .54196 | 52.133 | .07676 | .08760 | 23.961 |
| #1 | .00081 | .00045 | -.00074 | .49683 | 5.2473 | .00207 | 5.4733 | .08308 | .00056 |
| #2 | .00046 | .00050 | -.00009 | .49457 | 5.2877 | .00095 | 5.4673 | .08298 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.6388** | **10.438** | **.00133** | **.84071** | **.00089** | **4.0481** | **.00233** | **.00019** | **3.8749** |
| Stddev | .0455 | .311 | .00010 | .00220 | .00089 | .0016 | .00060 | .00137 | .0063 |
| %RSD | .47198 | 2.9789 | 7.4318 | .26221 | 99.778 | .03892 | 25.751 | 720.04 | .16274 |
| #1 | 9.6066 | 10.218 | .00126 | .83915 | .00026 | 4.0469 | .00191 | .00116 | 3.8794 |
| #2 | 9.6709 | 10.658 | .00140 | .84226 | .00151 | 4.0492 | .00276 | -.00078 | 3.8704 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00142** | **.08483** | **.00327** | **.00896** | **-.00021** | **-.00969** | **.00156** | **.01213** | **.00124** |
| Stddev | .00011 | .00029 | .00026 | .00054 | .00067 | .01032 | .00032 | .00002 | .00200 |
| %RSD | 7.8335 | .33974 | 7.8270 | 6.0279 | 314.41 | 106.47 | 20.614 | .16669 | 160.70 |
| #1 | -.00134 | .08462 | .00309 | .00934 | -.00068 | -.01699 | .00179 | .01212 | -.00017 |
| #2 | -.00150 | .08503 | .00346 | .00858 | .00026 | -.00240 | .00133 | .01215 | .00265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5295.0** | **66540.** | **3417.5** |
| Stddev | 18.3 | 348. | 22.6 |
| %RSD | .34474 | .52252 | .66128 |
| #1 | 5307.9 | 66294. | 3433.5 |
| #2 | 5282.1 | 66786. | 3401.6 |

Sample Name: 280-42077-C-5-B Acquired: 5/17/2013 16:20:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.64772** | **.00088** | **.04978** | **.03308** | **-.00003** | **-.00044** | **88.239** | **-.00008** |
| Stddev | .00065 | .00026 | .00166 | .00019 | .00010 | .00011 | .00035 | .438 | .00002 |
| %RSD | 77.390 | .03939 | 188.89 | .38259 | .31315 | 371.51 | 79.527 | .49650 | 26.134 |
| #1 | .00130 | .64754 | .00205 | .04992 | .03301 | -.00011 | -.00019 | 88.548 | -.00006 |
| #2 | .00038 | .64790 | -.00029 | .04965 | .03315 | .00005 | -.00070 | 87.929 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.00071** | **.00029** | **.94097** | **11.359** | **-.00051** | **12.936** | **.19061** | **.00068** |
| Stddev | .00019 | .00003 | .00018 | .00383 | .027 | .00205 | .002 | .00017 | .00031 |
| %RSD | 26.414 | 4.5578 | 61.695 | .40719 | .23646 | 404.39 | .01898 | .08974 | 46.098 |
| #1 | .00084 | .00073 | .00016 | .94367 | 11.340 | .00094 | 12.935 | .19049 | .00046 |
| #2 | .00057 | .00068 | .00041 | .93826 | 11.378 | -.00196 | 12.938 | .19073 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.421** | **.00149** | **.49162** | **.00068** | **22.884** | **.00030** | **.00075** | **2.7528** | **-.00074** |
| Stddev | .005 | .00014 | .00266 | .00044 | .016 | .00112 | .00089 | .0135 | .00027 |
| %RSD | .01940 | 9.2392 | .54031 | 65.621 | .06911 | 375.05 | 119.77 | .49013 | 36.290 |
| #1 | 23.418 | .00159 | .49350 | .00036 | 22.895 | .00109 | .00138 | 2.7433 | -.00093 |
| #2 | 23.425 | .00139 | .48974 | .00099 | 22.872 | -.00049 | .00011 | 2.7624 | -.00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27670** | **.00303** | **.00929** | **-.00087** | **.00703** | **.00151** | **.00968** | **.00148** |
| Stddev | .00084 | .00371 | .00018 | .00110 | .00872 | .00030 | .00096 | .00008 |
| %RSD | .30301 | 122.28 | 1.9451 | 126.42 | 124.15 | 19.614 | 9.9381 | 5.1963 |
| #1 | .27729 | .00566 | .00942 | -.00165 | .00086 | .00130 | .01036 | .00143 |
| #2 | .27611 | .00041 | .00916 | -.00009 | .01319 | .00172 | .00900 | .00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5241.5** | **65885.** | **3386.5** |
| Stddev | 17.3 | 246. | 24.7 |
| %RSD | .33059 | .37358 | .73011 |
| #1 | 5229.3 | 66059. | 3369.1 |
| #2 | 5253.8 | 65711. | 3404.0 |

Sample Name: 280-42077-C-6-B Acquired: 5/17/2013 16:22:31 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.01736** | **-.00063** | **.07154** | **.02128** | **-.00014** | **-.00301** | **54.030** | **.00011** |
| Stddev | .00054 | .00015 | .00243 | .00090 | .00033 | .00009 | .00262 | .052 | .00001 |
| %RSD | 93.625 | .87002 | 384.57 | 1.2528 | 1.5361 | 61.581 | 87.062 | .09684 | 12.796 |
| #1 | .00097 | .01726 | .00109 | .07217 | .02151 | -.00008 | -.00116 | 53.993 | .00012 |
| #2 | .00020 | .01747 | -.00235 | .07090 | .02105 | -.00021 | -.00487 | 54.067 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00002** | **-.00146** | **.03532** | **5.5671** | **-.00147** | **30.648** | **.02453** | **.00279** |
| Stddev | .00011 | .00025 | .00032 | .00058 | .0047 | .00189 | .029 | .00020 | .00027 |
| %RSD | 40.289 | 1574.5 | 21.772 | 1.6305 | .08461 | 128.69 | .09308 | .82791 | 9.5804 |
| #1 | .00019 | -.00016 | -.00123 | .03573 | 5.5705 | -.00013 | 30.668 | .02439 | .00261 |
| #2 | .00034 | .00019 | -.00168 | .03491 | 5.5638 | -.00280 | 30.628 | .02467 | .00298 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.7898** | **.00005** | **.28698** | **.00093** | **15.481** | **.00071** | **.00435** | **3.1927** | **-.00121** |
| Stddev | .0239 | .00019 | .00030 | .00118 | .028 | .00191 | .00369 | .0297 | .00045 |
| %RSD | .35215 | 393.67 | .10545 | 126.13 | .17822 | 269.12 | 84.922 | .92965 | 37.053 |
| #1 | 6.8067 | -.00009 | .28719 | .00010 | 15.500 | -.00064 | .00696 | 3.1717 | -.00089 |
| #2 | 6.7729 | .00018 | .28676 | .00176 | 15.461 | .00206 | .00174 | 3.2137 | -.00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.3401** | **.00407** | **.00002** | **-.00097** | **-.00341** | **.00183** | **.00316** | **.00161** |
| Stddev | .0081 | .00219 | .00007 | .00110 | .02907 | .00014 | .00070 | .00123 |
| %RSD | .24156 | 53.845 | 316.55 | 112.83 | 852.00 | 7.6371 | 22.248 | 76.422 |
| #1 | 3.3344 | .00252 | .00007 | -.00020 | .01714 | .00174 | .00365 | .00248 |
| #2 | 3.3458 | .00562 | -.00003 | -.00175 | -.02397 | .00193 | .00266 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5179.8** | **64784.** | **3363.0** |
| Stddev | 4.0 | 174. | .5 |
| %RSD | .07681 | .26877 | .01399 |
| #1 | 5182.7 | 64661. | 3363.3 |
| #2 | 5177.0 | 64907. | 3362.7 |

Sample Name: 280-42077-C-7-B Acquired: 5/17/2013 16:24:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.07686** | **.00352** | **.01529** | **.02138** | **-.00001** | **-.00172** | **103.47** | **-.00022** |
| Stddev | .00012 | .00002 | .00045 | .00007 | .00034 | .00018 | .00056 | .14 | .00001 |
| %RSD | 33.471 | .02998 | 12.716 | .48166 | 1.5815 | 1703.7 | 32.761 | .13612 | 4.2744 |
| #1 | .00043 | .07687 | .00320 | .01534 | .02162 | -.00014 | -.00132 | 103.37 | -.00023 |
| #2 | .00026 | .07684 | .00383 | .01524 | .02114 | .00012 | -.00211 | 103.57 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00064** | **-.00032** | **.36206** | **3.2314** | **-.00188** | **13.924** | **.00537** | **-.00007** |
| Stddev | .00003 | .00008 | .00015 | .00034 | .0471 | .00125 | .021 | .00001 | .00001 |
| %RSD | 98.394 | 11.953 | 47.102 | .09504 | 1.4575 | 66.768 | .15418 | .11074 | 14.392 |
| #1 | .00006 | .00069 | -.00043 | .36182 | 3.1981 | -.00277 | 13.908 | .00536 | -.00008 |
| #2 | .00001 | .00058 | -.00021 | .36231 | 3.2647 | -.00099 | 13.939 | .00537 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.6674** | **.00105** | **.49930** | **.00034** | **5.5310** | **.00151** | **-.00267** | **2.5740** | **-.00161** |
| Stddev | .0071 | .00017 | .00183 | .00028 | .0041 | .00056 | .00378 | .0147 | .00045 |
| %RSD | .10633 | 16.471 | .36579 | 82.995 | .07428 | 37.137 | 141.55 | .57268 | 27.791 |
| #1 | 6.6623 | .00117 | .50059 | .00014 | 5.5281 | .00111 | -.00534 | 2.5844 | -.00130 |
| #2 | 6.6724 | .00093 | .49801 | .00054 | 5.5339 | .00190 | .00000 | 2.5636 | -.00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13903** | **.00213** | **.00169** | **-.00005** | **-.01218** | **.00116** | **.00356** | **.00319** |
| Stddev | .00034 | .00178 | .00029 | .00133 | .00402 | .00041 | .00018 | .00067 |
| %RSD | .24291 | 83.257 | 17.176 | 2818.7 | 32.982 | 35.784 | 4.9823 | 20.881 |
| #1 | .13927 | .00339 | .00189 | .00089 | -.00934 | .00086 | .00369 | .00366 |
| #2 | .13879 | .00088 | .00148 | -.00099 | -.01502 | .00145 | .00343 | .00272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5208.9** | **64899.** | **3318.3** |
| Stddev | 11.5 | 250. | 7.2 |
| %RSD | .21986 | .38512 | .21814 |
| #1 | 5200.8 | 65076. | 3313.1 |
| #2 | 5217.0 | 64723. | 3323.4 |

Sample Name: 280-42077-C-8-B Acquired: 5/17/2013 16:27:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173767 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **.10400** | **.00107** | **.25859** | **.05983** | **-.00024** | **-.00267** | **44.809** | **.00025** |
| Stddev | .00051 | .00081 | .00042 | .00126 | .00054 | .00009 | .00002 | .028 | .00001 |
| %RSD | 50.999 | .78275 | 38.859 | .48676 | .90136 | 39.101 | .88876 | .06195 | 2.2559 |
| #1 | .00137 | .10342 | .00137 | .25770 | .06022 | -.00017 | -.00268 | 44.829 | .00025 |
| #2 | .00064 | .10458 | .00078 | .25948 | .05945 | -.00030 | -.00265 | 44.790 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00019** | **-.00077** | **.13841** | **9.3302** | **.05340** | **30.885** | **.03146** | **.00070** |
| Stddev | .00015 | .00004 | .00039 | .00054 | .0625 | .00112 | .110 | .00008 | .00006 |
| %RSD | 50.911 | 22.793 | 50.095 | .39281 | .66992 | 2.1052 | .35525 | .26012 | 7.9668 |
| #1 | .00041 | .00016 | -.00105 | .13803 | 9.3743 | .05261 | 30.963 | .03152 | .00066 |
| #2 | .00019 | .00022 | -.00050 | .13880 | 9.2860 | .05420 | 30.808 | .03140 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.125** | **.00101** | **.23132** | **.00095** | **16.132** | **.00211** | **.00145** | **3.6769** | **-.00131** |
| Stddev | .073 | .00019 | .00185 | .00176 | .006 | .00251 | .00098 | .0210 | .00015 |
| %RSD | .36067 | 18.862 | .79769 | 185.34 | .03556 | 118.92 | 67.833 | .56992 | 11.273 |
| #1 | 20.074 | .00114 | .23002 | .00219 | 16.128 | .00388 | .00075 | 3.6621 | -.00121 |
| #2 | 20.176 | .00088 | .23263 | -.00029 | 16.136 | .00034 | .00214 | 3.6917 | -.00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.554** | **.00107** | **.00106** | **-.00006** | **.00366** | **.00100** | **.00333** | **.00149** |
| Stddev | .026 | .00115 | .00008 | .00171 | .01936 | .00026 | .00102 | .00370 |
| %RSD | .24862 | 107.60 | 7.9199 | 2849.1 | 528.23 | 25.440 | 30.734 | 248.32 |
| #1 | 10.536 | .00189 | .00100 | .00115 | -.01002 | .00082 | .00406 | .00410 |
| #2 | 10.573 | .00026 | .00112 | -.00127 | .01735 | .00118 | .00261 | -.00112 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | |
| Low Limit | -.01000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5251.7** | **66525.** | **3388.9** |
| Stddev | 32.0 | 252. | 5.3 |
| %RSD | .60958 | .37878 | .15668 |
| #1 | 5274.3 | 66347. | 3385.1 |
| #2 | 5229.0 | 66703. | 3392.6 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 16:29:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01000** | **47.420** | k **-.00435** | **.00302** | k **.00081** | k **-.00010** | k **.93687** | k **-.00679** | k **-.00075** | k **.00203** | k **.00023** | k **.00745** |
| Stddev | .00001 | .542 | .00092 | .00145 | .00033 | .00022 | .00490 | .00033 | .00009 | .00010 | .00005 | .00051 |
| %RSD | .05696 | 1.1424 | 21.094 | 48.052 | 41.139 | 217.25 | .52307 | 4.8032 | 12.460 | 5.0673 | 20.353 | 6.8856 |
| #1 | k .01000 | 47.803 | k -.00370 | .00199 | k .00105 | k -.00026 | k .94033 | k -.00656 | k -.00082 | k .00195 | k .00020 | k .00708 |
| #2 | k .01000 | 47.037 | k -.00499 | .00404 | k .00057 | k .00006 | k .93340 | k -.00702 | k -.00069 | k .00210 | k .00026 | k .00781 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **44.526** | **1.5116** | k **-.00365** | k **-.19352** | **-.00009** | **-.00150** | **264.36** | **.00170** | **.00646** | k **.00842** | **4.8708** | k **-.02020** |
| Stddev | .368 | .0743 | .00190 | .00086 | .00009 | .00009 | 2.44 | .00026 | .00031 | .00255 | .0073 | .00061 |
| %RSD | .82730 | 4.9148 | 52.025 | .44368 | 97.618 | 6.2924 | .92382 | 15.158 | 4.8044 | 30.352 | .14930 | 3.0293 |
| #1 | k 44.266 | 1.5642 | k -.00230 | k -.19413 | -.00003 | -.00144 | 266.09 | .00189 | .00668 | k .00661 | 4.8656 | k -.02063 |
| #2 | k 44.787 | 1.4591 | k -.00499 | k -.19292 | -.00015 | -.00157 | 262.63 | .00152 | .00624 | k .01022 | 4.8759 | k -.01976 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.01194** | k **.00181** | k **-.00062** | **.00095** | k **5.4307** | k **.01735** | k **-.00429** | k **9.9250** | k **.00119** | **.00353** | k **.19090** |
| Stddev | .00471 | .00607 | .00029 | .00028 | .0005 | .00024 | .00094 | .0216 | .00056 | .00017 | .00217 |
| %RSD | 39.425 | 336.03 | 47.538 | 29.828 | .00955 | 1.4006 | 21.928 | .21721 | 47.280 | 4.9086 | 1.1374 |
| #1 | k -.01527 | k .00610 | k -.00083 | .00115 | k 5.4303 | k .01752 | k -.00363 | k 9.9402 | k .00079 | .00366 | k .19244 |
| #2 | k -.00861 | k -.00249 | k -.00041 | .00075 | k 5.4311 | k .01718 | k -.00496 | k 9.9097 | k .00159 | .00341 | k .18937 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5252.7** | **65536.** | **3393.2** |
| Stddev | 38.3 | 94. | 41.8 |
| %RSD | .72888 | .14415 | 1.2307 |
| #1 | 5225.7 | 65603. | 3363.7 |
| #2 | 5279.8 | 65469. | 3422.8 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 16:32:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51598** | **.50689** | **.94627** | **.51583** | **.50727** | F **.44576** | **.00777** | **4.6864** | **.49717** | **.50630** | **.47443** | **.47276** |
| Stddev | .00045 | .00042 | .00268 | .00101 | .00017 | .00017 | .00163 | .0015 | .00104 | .00030 | .00072 | .00022 |
| %RSD | .08677 | .08240 | .28322 | .19539 | .03394 | .03847 | 20.980 | .03181 | .20992 | .06023 | .15162 | .04664 |
| #1 | .51630 | .50718 | .94816 | .51654 | .50715 | .44564 | .00892 | 4.6874 | .49791 | .50608 | .47493 | .47291 |
| #2 | .51567 | .50659 | .94437 | .51511 | .50739 | .44588 | .00662 | 4.6853 | .49643 | .50651 | .47392 | .47260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1189** | **53.417** | **1.0678** | **19.219** | **.49691** | **.46053** | **5.2965** | **.48669** | **1.0072** | **1.0023** | **-.05185** | **1.0053** |
| Stddev | .0044 | .076 | .0020 | .020 | .00022 | .00070 | .0288 | .00103 | .0026 | .0017 | .00092 | .0049 |
| %RSD | .20720 | .14255 | .18666 | .10604 | .04381 | .15253 | .54377 | .21090 | .25690 | .16984 | 1.7803 | .48346 |
| #1 | 2.1158 | 53.471 | 1.0692 | 19.234 | .49706 | .46003 | 5.3168 | .48596 | 1.0091 | 1.0035 | -.05250 | 1.0087 |
| #2 | 2.1220 | 53.363 | 1.0664 | 19.205 | .49675 | .46102 | 5.2761 | .48741 | 1.0054 | 1.0011 | -.05120 | 1.0018 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0362** | F **4.3927** | **.92711** | **.52083** | **.00353** | **.49558** | **.95570** | **.04305** | **.47380** | **.48685** | **.47646** |
| Stddev | .0125 | .0210 | .00164 | .00038 | .00096 | .00021 | .00297 | .07310 | .00050 | .00215 | .00502 |
| %RSD | 1.2058 | .47695 | .17721 | .07246 | 27.197 | .04253 | .31050 | 169.81 | .10535 | .44085 | 1.0542 |
| #1 | 1.0450 | 4.4075 | .92827 | .52056 | .00285 | .49573 | .95780 | .09474 | .47345 | .48533 | .47291 |
| #2 | 1.0273 | 4.3779 | .92594 | .52109 | .00420 | .49543 | .95360 | -.00864 | .47416 | .48837 | .48001 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5332.0** | **66618.** | **3435.3** |
| Stddev | 21.0 | 176. | 2.5 |
| %RSD | .39297 | .26370 | .07141 |
| #1 | 5317.2 | 66494. | 3437.0 |
| #2 | 5346.8 | 66743. | 3433.5 |

Sample Name: CCB Acquired: 5/17/2013 16:34:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00126** | **.01468** | **-.00174** | F **.00362** | **.00031** | **-.00011** | **.00111** | **-.00601** | **.00022** | **.00031** | **.00005** |
| Stddev | .00063 | .00295 | .00012 | .00014 | .00039 | .00003 | .00152 | .00177 | .00001 | .00023 | .00023 |
| %RSD | 49.806 | 20.114 | 6.9835 | 3.8254 | 125.89 | 29.169 | 136.84 | 29.444 | 2.3085 | 73.083 | 495.70 |
| #1 | .00171 | .01259 | -.00165 | .00372 | .00059 | -.00009 | .00218 | -.00726 | .00022 | .00015 | -.00012 |
| #2 | .00082 | .01676 | -.00182 | .00353 | .00003 | -.00014 | .00004 | -.00476 | .00023 | .00047 | .00021 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | | | | | | | |
| Low Limit | -.00093 | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00161** | **-.00207** | F **1.1853** | **-.00065** | **-.00103** | **.00006** | **.00077** | F **.35758** | **.00033** | **.00489** | **.00154** |
| Stddev | .00017 | .00464 | .0908 | .00049 | .00011 | .00007 | .00003 | .00594 | .00033 | .00050 | .00158 |
| %RSD | 10.748 | 223.85 | 7.6571 | 75.510 | 10.878 | 128.46 | 4.1831 | 1.6612 | 99.951 | 10.283 | 102.59 |
| #1 | -.00148 | .00121 | 1.2495 | -.00030 | -.00095 | .00011 | .00079 | .36178 | .00056 | .00454 | .00042 |
| #2 | -.00173 | -.00536 | 1.1211 | -.00099 | -.00111 | .00001 | .00074 | .35338 | .00010 | .00525 | .00267 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | .25000 | | | | | .10000 | | | |
| Low Limit | -.00136 | | -.25000 | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02781** | W **.00338** | **.00342** | **-.00266** | **-.00023** | **.00003** | **.00100** | **.00009** | **.00022** | **-.00730** | **.00027** |
| Stddev | .00723 | .00194 | .00432 | .00421 | .00062 | .00012 | .00193 | .00076 | .00023 | .00559 | .00057 |
| %RSD | 25.994 | 57.302 | 126.38 | 158.21 | 276.19 | 335.08 | 192.75 | 810.19 | 103.94 | 76.587 | 209.38 |
| #1 | -.03292 | .00201 | .00647 | -.00563 | -.00066 | .00012 | -.00036 | -.00044 | .00038 | -.00335 | .00067 |
| #2 | -.02270 | .00475 | .00036 | .00032 | .00021 | -.00005 | .00236 | .00063 | .00006 | -.01125 | -.00013 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00220** | **-.00093** |
| Stddev | .00068 | .00067 |
| %RSD | 30.821 | 72.266 |
| #1 | .00268 | -.00046 |
| #2 | .00172 | -.00141 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5240.9** | **66830.** | **3399.9** |
| Stddev | 9.4 | 246. | 10.7 |
| %RSD | .17985 | .36781 | .31405 |
| #1 | 5247.5 | 66656. | 3407.4 |
| #2 | 5234.2 | 67004. | 3392.3 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 16:37:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01192** | **.11168** | **.01513** | **.10670** | **.01055** | **.00099** | **.10736** | F **.26190** | **.00514** | **.01060** | **.00979** | **.01269** |
| Stddev | .00011 | .00114 | .00107 | .00010 | .00018 | .00005 | .00027 | .00131 | .00009 | .00009 | .00016 | .00007 |
| %RSD | .95937 | 1.0190 | 7.0616 | .09237 | 1.6681 | 4.7928 | .25548 | .49834 | 1.7268 | .86488 | 1.6519 | .57173 |
| #1 | .01184 | .11249 | .01588 | .10677 | .01068 | .00102 | .10717 | .26282 | .00521 | .01066 | .00968 | .01263 |
| #2 | .01200 | .11088 | .01437 | .10663 | .01043 | .00095 | .10755 | .26098 | .00508 | .01053 | .00991 | .01274 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .20000 | | | | |
| Range | | | | | | | | 30.000% | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09280** | F **4.3585** | F **.00682** | **.22612** | **.01054** | **.01879** | F **1.4970** | **.04016** | **3.0393** | **.01020** | **-.03908** | **.01132** |
| Stddev | .00611 | .0256 | .00068 | .00089 | .00004 | .00005 | .0183 | .00036 | .0100 | .00003 | .00350 | .00005 |
| %RSD | 6.5796 | .58664 | 9.9549 | .39460 | .38216 | .26618 | 1.2201 | .89254 | .32747 | .27720 | 8.9571 | .47729 |
| #1 | .09712 | 4.3405 | .00634 | .22675 | .01057 | .01882 | 1.4841 | .03991 | 3.0323 | .01018 | -.03661 | .01135 |
| #2 | .08849 | 4.3766 | .00730 | .22549 | .01051 | .01875 | 1.5100 | .04042 | 3.0463 | .01022 | -.04156 | .01128 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | 3.0000 | .01000 | | | | 1.0000 | | | | | |
| Range | | 30.000% | -30.000% | | | | 30.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01436** | **.46539** | **.09322** | F **.01324** | **.01566** | **.01083** | **.01538** | F **.09062** | **.00996** | F **.03365** | **.01623** |
| Stddev | .00304 | .00077 | .00132 | .00034 | .00014 | .00029 | .00055 | .01307 | .00002 | .00044 | .00267 |
| %RSD | 21.172 | .16556 | 1.4157 | 2.6046 | .88093 | 2.7225 | 3.5493 | 14.426 | .21943 | 1.2980 | 16.470 |
| #1 | .01651 | .46484 | .09229 | .01348 | .01556 | .01062 | .01500 | .09986 | .00998 | .03396 | .01434 |
| #2 | .01221 | .46593 | .09416 | .01300 | .01576 | .01104 | .01577 | .08137 | .00995 | .03334 | .01812 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | .01000 | | | | .06000 | | .02000 | |
| Range | | | | 30.000% | | | | 30.000% | | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5397.0** | **67000.** | **3393.0** |
| Stddev | 23.3 | 225. | 13.7 |
| %RSD | .43171 | .33512 | .40443 |
| #1 | 5380.5 | 66841. | 3383.3 |
| #2 | 5413.5 | 67158. | 3402.7 |

Sample Name: MB 280-174414/1-A Acquired: 5/17/2013 16:39:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **.02197** | **.00121** | F **.03134** | **.00051** | **-.00011** | **-.00050** | **.09444** | **.00015** |
| Stddev | .00092 | .00021 | .00242 | .00007 | .00054 | .00005 | .00164 | .00233 | .00011 |
| %RSD | 81.691 | .96692 | 199.18 | .21114 | 104.63 | 47.492 | 327.99 | 2.4643 | 73.494 |
| #1 | .00179 | .02182 | -.00050 | .03139 | .00089 | -.00015 | -.00166 | .09608 | .00023 |
| #2 | .00048 | .02212 | .00292 | .03130 | .00013 | -.00007 | .00066 | .09279 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00022** | **.00359** | **.02131** | W **1.2240** | **-.00050** | **.02917** | **.00059** | **.00058** |
| Stddev | .00001 | .00001 | .00076 | .00127 | .1162 | .00016 | .00061 | .00001 | .00036 |
| %RSD | 6.4007 | 3.6929 | 21.150 | 5.9378 | 9.4908 | 32.412 | 2.0999 | 2.3521 | 61.570 |
| #1 | .00017 | .00021 | .00412 | .02042 | 1.3061 | -.00038 | .02960 | .00060 | .00083 |
| #2 | .00019 | .00022 | .00305 | .02221 | 1.1418 | -.00061 | .02874 | .00058 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 1.0000 | | | | |
| Low Limit | | | | | -1.0000 | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.67614** | **.00046** | F **.06220** | **.00008** | **-.02100** | **.00157** | **.00331** | W **.05522** | **.00050** |
| Stddev | .00123 | .00020 | .00195 | .00102 | .00148 | .00074 | .00494 | .00075 | .00080 |
| %RSD | .18139 | 44.075 | 3.1358 | 1273.5 | 7.0397 | 46.965 | 149.26 | 1.3637 | 159.55 |
| #1 | .67701 | .00060 | .06358 | .00080 | -.01996 | .00209 | .00681 | .05468 | -.00006 |
| #2 | .67527 | .00032 | .06082 | -.00064 | -.02205 | .00105 | -.00018 | .05575 | .00106 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .50000 | | .01000 | | | | | .05000 | |
| Low Limit | -.50000 | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.00339** | **.00035** | **-.00169** | **-.00043** | **.00038** | W **.00865** | **.00361** |
| Stddev | .00005 | .00021 | .00026 | .00043 | .00408 | .00005 | .00018 | .00139 |
| %RSD | 3.1354 | 6.2106 | 73.856 | 25.428 | 950.14 | 14.050 | 2.0938 | 38.531 |
| #1 | .00151 | .00324 | .00054 | -.00139 | -.00332 | .00034 | .00878 | .00263 |
| #2 | .00144 | .00354 | .00017 | -.00200 | .00246 | .00041 | .00852 | .00459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00500 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5404.0** | **67478.** | **3458.0** |
| Stddev | 18.6 | 44. | 14.4 |
| %RSD | .34365 | .06524 | .41574 |
| #1 | 5390.8 | 67509. | 3447.9 |
| #2 | 5417.1 | 67447. | 3468.2 |

Sample Name: LCS 280-174414/2-A Acquired: 5/17/2013 16:41:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05063** | **1.8997** | **.88822** | **1.0947** | **1.9268** | **.04228** | **1.8652** | **43.972** | **.09401** |
| Stddev | .00041 | .0018 | .00154 | .0019 | .0105 | .00007 | .0010 | .112 | .00004 |
| %RSD | .81131 | .09536 | .17312 | .17602 | .54507 | .15868 | .05239 | .25395 | .04513 |
| #1 | .05092 | 1.8984 | .88714 | 1.0960 | 1.9194 | .04233 | 1.8659 | 43.893 | .09398 |
| #2 | .05034 | 1.9010 | .88931 | 1.0933 | 1.9342 | .04224 | 1.8645 | 44.051 | .09404 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46785** | **.17798** | **.22218** | F **.82599** | **51.455** | **1.0160** | F **44.847** | **.46280** | **.86702** |
| Stddev | .00058 | .00034 | .00053 | .00769 | .074 | .0024 | .030 | .00047 | .00013 |
| %RSD | .12386 | .18990 | .23647 | .93120 | .14437 | .23750 | .06678 | .10187 | .01538 |
| #1 | .46744 | .17774 | .22181 | .82055 | 51.403 | 1.0143 | 44.826 | .46246 | .86712 |
| #2 | .46826 | .17822 | .22255 | .83143 | 51.508 | 1.0177 | 44.868 | .46313 | .86693 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | 1.2000 | | | 55.000 | | |
| Low Limit | | | | .87000 | | | 45.000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.303** | **.44857** | **9.6845** | **.46124** | **-.02544** | **.46892** | **1.9232** | **1.3685** | **1.7343** |
| Stddev | .798 | .00026 | .0030 | .00006 | .00107 | .00010 | .0049 | .0095 | .0052 |
| %RSD | 1.5254 | .05714 | .03074 | .01349 | 4.2125 | .02207 | .25483 | .69539 | .30173 |
| #1 | 52.868 | .44875 | 9.6866 | .46119 | -.02468 | .46884 | 1.9267 | 1.3618 | 1.7380 |
| #2 | 51.739 | .44839 | 9.6824 | .46128 | -.02620 | .46899 | 1.9197 | 1.3753 | 1.7306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99052** | **.98989** | **.93486** | **1.7970** | **1.8951** | **.44975** | **.45722** | **.43146** |
| Stddev | .00305 | .00055 | .00089 | .0096 | .0174 | .00013 | .00116 | .00122 |
| %RSD | .30753 | .05536 | .09483 | .53489 | .91643 | .02795 | .25311 | .28353 |
| #1 | .98837 | .99028 | .93423 | 1.8038 | 1.9074 | .44984 | .45640 | .43060 |
| #2 | .99268 | .98951 | .93548 | 1.7902 | 1.8828 | .44966 | .45804 | .43233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5256.3** | **65589.** | **3359.0** |
| Stddev | 3.8 | 210. | 5.6 |
| %RSD | .07150 | .31999 | .16736 |
| #1 | 5253.7 | 65441. | 3355.0 |
| #2 | 5259.0 | 65738. | 3363.0 |

Sample Name: 280-42032-A-9-G Acquired: 5/17/2013 16:44:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **107.38** | **.03350** | **.05234** | **.84771** | **.00501** | **.00948** | **340.79** | **.00423** |
| Stddev | .00077 | 1.06 | .00081 | .00065 | .00616 | .00012 | .00067 | 3.55 | .00014 |
| %RSD | 85.711 | .98979 | 2.4150 | 1.2348 | .72625 | 2.4250 | 7.1010 | 1.0409 | 3.4194 |
| #1 | .00144 | 108.13 | .03293 | .05280 | .85206 | .00493 | .00995 | 343.29 | .00412 |
| #2 | .00035 | 106.63 | .03408 | .05188 | .84335 | .00510 | .00900 | 338.28 | .00433 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04081** | **.10264** | **.26510** | **96.948** | **32.537** | **.08304** | **36.498** | **2.3543** | **.00362** |
| Stddev | .00033 | .00002 | .00081 | .040 | .505 | .00180 | .076 | .0008 | .00031 |
| %RSD | .80961 | .02036 | .30563 | .04111 | 1.5520 | 2.1679 | .20819 | .03582 | 8.6242 |
| #1 | .04057 | .10265 | .26568 | 96.920 | 32.894 | .08431 | 36.552 | 2.3549 | .00340 |
| #2 | .04104 | .10262 | .26453 | 96.977 | 32.180 | .08176 | 36.445 | 2.3537 | .00385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1841** | **.09158** | **3.7364** | **.18351** | **3.1430** | **.00372** | **.00192** | **2.3411** | **.00574** |
| Stddev | .0074 | .00007 | .0159 | .00208 | .0207 | .00190 | .00619 | .0406 | .00075 |
| %RSD | .62410 | .07888 | .42546 | 1.1307 | .65827 | 50.955 | 321.82 | 1.7354 | 13.130 |
| #1 | 1.1893 | .09163 | 3.7477 | .18498 | 3.1576 | .00506 | -.00245 | 2.3698 | .00521 |
| #2 | 1.1789 | .09153 | 3.7252 | .18205 | 3.1283 | .00238 | .00630 | 2.3123 | .00627 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72879** | **.07636** | **1.8319** | **-.00357** | W **-.09683** | **.15490** | **.36557** | **.07579** |
| Stddev | .00809 | .00367 | .0024 | .00239 | .04326 | .00120 | .00023 | .00065 |
| %RSD | 1.1104 | 4.8026 | .12997 | 67.093 | 44.672 | .77674 | .06428 | .86418 |
| #1 | .73451 | .07895 | 1.8303 | -.00526 | -.12742 | .15575 | .36573 | .07533 |
| #2 | .72307 | .07376 | 1.8336 | -.00188 | -.06625 | .15405 | .36540 | .07625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5445.6** | **67391.** | **3640.2** |
| Stddev | 12.4 | 145. | 27.9 |
| %RSD | .22724 | .21573 | .76540 |
| #1 | 5436.9 | 67288. | 3620.5 |
| #2 | 5454.4 | 67494. | 3659.9 |

Sample Name: sd 280-42032-A-9-G@5 Acquired: 5/17/2013 16:46:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **22.583** | **.00685** | **.01222** | **.17830** | **.00104** | **.00390** | **71.658** | **.00068** |
| Stddev | .00053 | .002 | .00081 | .00030 | .00055 | .00004 | .00227 | .022 | .00037 |
| %RSD | 38.956 | .01061 | 11.844 | 2.4560 | .31059 | 3.9291 | 58.157 | .03079 | 53.948 |
| #1 | .00174 | 22.581 | .00628 | .01200 | .17791 | .00101 | .00230 | 71.674 | .00042 |
| #2 | .00099 | 22.584 | .00743 | .01243 | .17869 | .00107 | .00550 | 71.643 | .00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00855** | **.02131** | **.05233** | **19.019** | **7.6070** | **.01553** | **7.7234** | **.49129** | **.00084** |
| Stddev | .00011 | .00005 | .00027 | .003 | .0005 | .00036 | .0092 | .00101 | .00012 |
| %RSD | 1.3365 | .23970 | .50984 | .01771 | .00627 | 2.3270 | .11874 | .20547 | 14.430 |
| #1 | .00863 | .02135 | .05252 | 19.022 | 7.6074 | .01527 | 7.7170 | .49058 | .00093 |
| #2 | .00847 | .02128 | .05214 | 19.017 | 7.6067 | .01578 | 7.7299 | .49200 | .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48155** | **.01971** | **.76207** | **.04002** | **.58907** | **.00102** | **.00309** | **.51530** | **.00056** |
| Stddev | .01660 | .00033 | .00235 | .00077 | .00038 | .00058 | .00076 | .02836 | .00043 |
| %RSD | 3.4466 | 1.6907 | .30844 | 1.9309 | .06469 | 56.956 | 24.661 | 5.5043 | 75.650 |
| #1 | .46981 | .01947 | .76041 | .03947 | .58880 | .00061 | .00363 | .49524 | .00086 |
| #2 | .49329 | .01994 | .76373 | .04057 | .58934 | .00143 | .00255 | .53536 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15435** | **.01943** | **.37830** | **-.00096** | **-.04541** | **.03252** | **.08168** | **.01557** |
| Stddev | .00040 | .00025 | .00149 | .00138 | .00035 | .00049 | .00056 | .00135 |
| %RSD | .25905 | 1.2878 | .39468 | 143.25 | .77749 | 1.5210 | .68270 | 8.6927 |
| #1 | .15406 | .01926 | .37724 | .00001 | -.04566 | .03217 | .08128 | .01461 |
| #2 | .15463 | .01961 | .37936 | -.00194 | -.04516 | .03287 | .08207 | .01653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5355.9** | **66546.** | **3480.3** |
| Stddev | 14.2 | 101. | 9.6 |
| %RSD | .26591 | .15200 | .27663 |
| #1 | 5366.0 | 66617. | 3487.1 |
| #2 | 5345.9 | 66474. | 3473.5 |

Sample Name: 280-42032-A-9-H MS  Acquired: 5/17/2013 16:48:53  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05171** | **144.83** | **.91915** | **1.0325** | **2.7352** | **.04628** | **1.8945** | **354.41** | **.09828** |
| Stddev | .00000 | .76 | .00457 | .0016 | .0092 | .00007 | .0068 | 1.34 | .00007 |
| %RSD | .00082 | .52232 | .49711 | .15647 | .33817 | .14323 | .35925 | .37736 | .06841 |
| #1 | .05171 | 144.30 | .91592 | 1.0314 | 2.7287 | .04623 | 1.8897 | 353.47 | .09824 |
| #2 | .05171 | 145.37 | .92238 | 1.0336 | 2.7418 | .04633 | 1.8993 | 355.36 | .09833 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48971** | **.30035** | **.43694** | **93.169** | **89.240** | **1.1057** | **82.627** | **2.5564** | **.82877** |
| Stddev | .00083 | .00001 | .00168 | .476 | .227 | .0046 | .319 | .0078 | .00101 |
| %RSD | .17009 | .00212 | .38377 | .51038 | .25443 | .41337 | .38574 | .30704 | .12213 |
| #1 | .48912 | .30035 | .43813 | 92.832 | 89.079 | 1.1025 | 82.853 | 2.5620 | .82806 |
| #2 | .49029 | .30036 | .43576 | 93.505 | 89.400 | 1.1089 | 82.402 | 2.5509 | .82949 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.479** | **.51824** | **12.835** | **.58900** | **2.7601** | **.20109** | **1.8942** | **4.3487** | **1.6169** |
| Stddev | 1.027 | .00011 | .032 | .00013 | .0098 | .00143 | .0010 | .0024 | .0004 |
| %RSD | 1.9207 | .02178 | .25009 | .02201 | .35582 | .71306 | .05293 | .05507 | .02747 |
| #1 | 52.753 | .51832 | 12.813 | .58909 | 2.7532 | .20008 | 1.8935 | 4.3470 | 1.6172 |
| #2 | 54.205 | .51816 | 12.858 | .58890 | 2.7670 | .20211 | 1.8949 | 4.3504 | 1.6166 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6580** | **1.0276** | **4.0019** | **1.7001** | **1.8219** | **.63452** | **.78406** | **.49517** |
| Stddev | .0043 | .0036 | .0073 | .0005 | .0018 | .00244 | .00319 | .00183 |
| %RSD | .26113 | .35293 | .18241 | .03037 | .09970 | .38494 | .40677 | .36871 |
| #1 | 1.6549 | 1.0302 | 4.0071 | 1.6998 | 1.8232 | .63625 | .78631 | .49388 |
| #2 | 1.6610 | 1.0251 | 3.9968 | 1.7005 | 1.8206 | .63279 | .78180 | .49646 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5241.8** | **64858.** | **3525.0** |
| Stddev | .4 | 341. | 38.6 |
| %RSD | .00711 | .52589 | 1.0940 |
| #1 | 5242.0 | 64617. | 3552.3 |
| #2 | 5241.5 | 65099. | 3497.8 |

Sample Name: 280-42032-A-9-I MSD  Acquired: 5/17/2013 16:51:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05095** | **161.09** | **.91971** | **1.0214** | **2.8379** | **.04657** | **1.8880** | **393.19** | **.09835** |
| Stddev | .00055 | 1.04 | .00752 | .0035 | .0185 | .00014 | .0034 | 2.42 | .00034 |
| %RSD | 1.0874 | .64549 | .81803 | .34516 | .65242 | .31099 | .18116 | .61587 | .34187 |
| #1 | .05134 | 160.35 | .92503 | 1.0239 | 2.8248 | .04667 | 1.8905 | 391.47 | .09859 |
| #2 | .05055 | 161.83 | .91439 | 1.0189 | 2.8510 | .04647 | 1.8856 | 394.90 | .09811 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49106** | **.31479** | **.48397** | **106.03** | **92.939** | **1.1086** | **86.466** | **2.8626** | **.81734** |
| Stddev | .00088 | .00044 | .00002 | .76 | .431 | .0063 | .118 | .0014 | .00291 |
| %RSD | .17844 | .14047 | .00341 | .71785 | .46404 | .56992 | .13701 | .04861 | .35567 |
| #1 | .49168 | .31510 | .48396 | 105.49 | 92.634 | 1.1042 | 86.550 | 2.8636 | .81939 |
| #2 | .49044 | .31447 | .48398 | 106.57 | 93.244 | 1.1131 | 86.383 | 2.8616 | .81528 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.719** | **.52717** | **13.120** | **.59629** | **3.2485** | **.17925** | **1.8818** | **3.9589** | **1.5977** |
| Stddev | .351 | .00103 | .027 | .00023 | .0086 | .00092 | .0063 | .0241 | .0045 |
| %RSD | .66492 | .19601 | .20907 | .03910 | .26376 | .51062 | .33703 | .60851 | .28366 |
| #1 | 52.471 | .52790 | 13.139 | .59645 | 3.2546 | .17860 | 1.8863 | 3.9419 | 1.6010 |
| #2 | 52.967 | .52644 | 13.100 | .59612 | 3.2424 | .17990 | 1.8774 | 3.9759 | 1.5945 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7469** | **1.0205** | **4.2844** | **1.6788** | **1.8076** | **.65290** | **.82083** | **.49220** |
| Stddev | .0134 | .0000 | .0026 | .0012 | .0207 | .00095 | .00053 | .00044 |
| %RSD | .76532 | .00021 | .06063 | .07100 | 1.1461 | .14539 | .06427 | .08930 |
| #1 | 1.7375 | 1.0205 | 4.2825 | 1.6797 | 1.8223 | .65357 | .82046 | .49189 |
| #2 | 1.7564 | 1.0205 | 4.2862 | 1.6780 | 1.7930 | .65223 | .82120 | .49251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5268.9** | **65433.** | **3503.7** |
| Stddev | 16.8 | 52. | 8.3 |
| %RSD | .31957 | .08021 | .23727 |
| #1 | 5257.0 | 65396. | 3497.8 |
| #2 | 5280.8 | 65470. | 3509.5 |

Sample Name: pds 280-42032-A-9-G Acquired: 5/17/2013 16:53:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04343** | **106.39** | **.21719** | **.14960** | **.93674** | **.04761** | **.01254** | **350.16** | **.05321** |
| Stddev | .00015 | .64 | .00086 | .00035 | .00251 | .00034 | .00269 | 2.67 | .00022 |
| %RSD | .34521 | .59968 | .39709 | .23575 | .26771 | .71186 | 21.465 | .76148 | .40419 |
| #1 | .04353 | 106.84 | .21780 | .14935 | .93851 | .04785 | .01064 | 352.04 | .05305 |
| #2 | .04332 | 105.94 | .21658 | .14985 | .93497 | .04737 | .01444 | 348.27 | .05336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08712** | **.14705** | **.30923** | **96.303** | **52.309** | **.18730** | **54.475** | **2.3617** | **.04714** |
| Stddev | .00036 | .00032 | .00052 | .459 | .489 | .00015 | .056 | .0041 | .00005 |
| %RSD | .41554 | .21924 | .16703 | .47640 | .93410 | .07770 | .10319 | .17495 | .10769 |
| #1 | .08686 | .14682 | .30960 | 96.628 | 52.654 | .18719 | 54.435 | 2.3588 | .04711 |
| #2 | .08737 | .14728 | .30887 | 95.979 | 51.963 | .18740 | 54.515 | 2.3647 | .04718 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.130** | **.13467** | **5.6438** | **.27235** | **3.1044** | **.09658** | **.20432** | **6.4185** | **.09279** |
| Stddev | .006 | .00074 | .0012 | .00253 | .0038 | .00149 | .00037 | .0024 | .00023 |
| %RSD | .02664 | .54912 | .02114 | .92943 | .12104 | 1.5388 | .18234 | .03699 | .25320 |
| #1 | 23.135 | .13415 | 5.6430 | .27056 | 3.1017 | .09764 | .20458 | 6.4202 | .09296 |
| #2 | 23.126 | .13519 | 5.6447 | .27414 | 3.1070 | .09553 | .20405 | 6.4168 | .09263 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76280** | **.28179** | **1.8533** | **.17780** | **.42370** | **.20086** | **.57073** | **.11512** |
| Stddev | .00607 | .00278 | .0023 | .00031 | .00583 | .00026 | .00089 | .00268 |
| %RSD | .79534 | .98555 | .12501 | .17302 | 1.3755 | .13048 | .15562 | 2.3315 |
| #1 | .76709 | .27982 | 1.8516 | .17802 | .42782 | .20067 | .57011 | .11322 |
| #2 | .75851 | .28375 | 1.8549 | .17759 | .41958 | .20105 | .57136 | .11702 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5384.8** | **66622.** | **3605.1** |
| Stddev | 3.0 | 221. | 20.0 |
| %RSD | .05519 | .33226 | .55435 |
| #1 | 5382.7 | 66779. | 3591.0 |
| #2 | 5386.9 | 66466. | 3619.3 |

Sample Name: 280-42032-A-10-C Acquired: 5/17/2013 16:55:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **97.895** | **.03359** | **.05156** | **.79721** | **.00465** | **.00540** | **331.92** | **.00399** |
| Stddev | .00002 | .003 | .00116 | .00062 | .00304 | .00003 | .00172 | .16 | .00018 |
| %RSD | 6.0631 | .00259 | 3.4419 | 1.2006 | .38071 | .60281 | 31.780 | .04767 | 4.5121 |
| #1 | .00031 | 97.893 | .03441 | .05199 | .79506 | .00463 | .00419 | 332.04 | .00386 |
| #2 | .00034 | 97.897 | .03278 | .05112 | .79936 | .00467 | .00661 | 331.81 | .00412 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03704** | **.09300** | **.15012** | **86.750** | **29.532** | **.07815** | **33.201** | **2.1890** | **.00403** |
| Stddev | .00028 | .00003 | .00013 | .161 | .108 | .00097 | .102 | .0045 | .00043 |
| %RSD | .75277 | .03178 | .08945 | .18603 | .36721 | 1.2418 | .30611 | .20332 | 10.656 |
| #1 | .03724 | .09297 | .15003 | 86.636 | 29.609 | .07883 | 33.273 | 2.1921 | .00434 |
| #2 | .03684 | .09302 | .15022 | 86.864 | 29.455 | .07746 | 33.129 | 2.1858 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1776** | **.08182** | **3.4691** | **.12252** | **2.1855** | **.00045** | **.00730** | **1.9583** | **.00568** |
| Stddev | .0111 | .00038 | .0033 | .00264 | .0031 | .00321 | .00336 | .0478 | .00062 |
| %RSD | .94468 | .46094 | .09600 | 2.1583 | .14330 | 716.16 | 46.112 | 2.4423 | 10.877 |
| #1 | 1.1698 | .08209 | 3.4667 | .12439 | 2.1833 | -.00182 | .00967 | 1.9921 | .00612 |
| #2 | 1.1855 | .08155 | 3.4714 | .12065 | 2.1877 | .00272 | .00492 | 1.9244 | .00525 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68490** | **.06614** | **1.5157** | **-.00292** | W **-.09103** | **.13859** | **.32819** | **.07106** |
| Stddev | .00157 | .00114 | .0038 | .00106 | .01034 | .00083 | .00115 | .00124 |
| %RSD | .22983 | 1.7304 | .25115 | 36.150 | 11.360 | .59970 | .34945 | 1.7517 |
| #1 | .68379 | .06533 | 1.5184 | -.00217 | -.09834 | .13918 | .32900 | .07018 |
| #2 | .68602 | .06695 | 1.5130 | -.00367 | -.08372 | .13800 | .32738 | .07194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5408.6** | **66627.** | **3577.5** |
| Stddev | 1.9 | 125. | 28.7 |
| %RSD | .03598 | .18762 | .80276 |
| #1 | 5410.0 | 66539. | 3557.2 |
| #2 | 5407.2 | 66716. | 3597.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 16:57:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **45.899** | **-.00010** | **.00416** | **.00118** | **-.00004** | **.93654** | **.20699** | **-.00058** | **.00199** | **.00030** | **-.00317** |
| Stddev | .00025 | .642 | .00220 | .00110 | .00007 | .00011 | .00581 | .00239 | .00003 | .00023 | .00013 | .00045 |
| %RSD | 262.95 | 1.3985 | 2219.0 | 26.523 | 5.5349 | 298.43 | .62011 | 1.1549 | 4.6588 | 11.481 | 44.415 | 14.116 |
| #1 | .00008 | 45.445 | .00145 | .00494 | .00123 | -.00011 | .94064 | .20868 | -.00056 | .00182 | .00021 | -.00285 |
| #2 | -.00027 | 46.353 | -.00165 | .00338 | .00114 | .00004 | .93243 | .20530 | -.00060 | .00215 | .00040 | -.00348 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.815** | **1.3608** | **-.00301** | **.04662** | **.00123** | **-.00146** | **258.60** | **.00222** | **.01126** | **.00109** | **4.6868** | **.00112** |
| Stddev | .560 | .0253 | .00106 | .00023 | .00008 | .00047 | 3.70 | .00030 | .00010 | .00057 | .0051 | .00354 |
| %RSD | 1.4422 | 1.8572 | 35.101 | .49655 | 6.4335 | 32.306 | 1.4324 | 13.547 | .91029 | 52.031 | .10833 | 316.05 |
| #1 | 38.419 | 1.3429 | -.00226 | .04678 | .00118 | -.00179 | 255.98 | .00201 | .01134 | .00069 | 4.6903 | -.00138 |
| #2 | 39.211 | 1.3787 | -.00376 | .04646 | .00129 | -.00112 | 261.22 | .00244 | .01119 | .00150 | 4.6832 | .00363 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00562** | **-.00404** | **.00020** | **.00132** | **5.0090** | **.00562** | **-.00020** | **9.5736** | **.00006** | **.00435** | **-.06526** |
| Stddev | .00173 | .01195 | .00066 | .00002 | .0209 | .00012 | .00070 | .0325 | .00007 | .00017 | .00613 |
| %RSD | 30.718 | 295.96 | 326.23 | 1.3434 | .41740 | 2.1806 | 343.76 | .33928 | 115.48 | 3.9258 | 9.3984 |
| #1 | .00684 | .00441 | -.00026 | .00133 | 5.0238 | .00570 | .00029 | 9.5506 | .00011 | .00447 | -.06960 |
| #2 | .00440 | -.01249 | .00067 | .00131 | 4.9943 | .00553 | -.00070 | 9.5965 | .00001 | .00423 | -.06092 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5235.8** | **64850.** | **3353.1** |
| Stddev | 29.8 | 318. | 41.9 |
| %RSD | .56835 | .48990 | 1.2504 |
| #1 | 5214.7 | 64625. | 3382.7 |
| #2 | 5256.8 | 65074. | 3323.4 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 17:00:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50833** | F **.55478** | **.93641** | **.50660** | **.49963** | F **.43430** | **.00816** | **4.7991** | **.48776** | **.49798** | **.46569** | **.46298** |
| Stddev | .00098 | .00036 | .00026 | .00028 | .00037 | .00171 | .00015 | .0009 | .00006 | .00007 | .00015 | .00009 |
| %RSD | .19284 | .06474 | .02745 | .05552 | .07387 | .39325 | 1.8504 | .01874 | .01227 | .01394 | .03250 | .01931 |
| #1 | .50763 | .55453 | .93623 | .50640 | .49936 | .43309 | .00805 | 4.7998 | .48771 | .49793 | .46559 | .46292 |
| #2 | .50902 | .55504 | .93659 | .50680 | .49989 | .43551 | .00827 | 4.7985 | .48780 | .49803 | .46580 | .46305 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | .50000 | | | | | | |
| Range | | 10.000% | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1220** | **53.157** | **1.0558** | **18.998** | **.49056** | **.45147** | **5.2165** | **.47760** | **.99266** | **.98214** | **-.05178** | **.98338** |
| Stddev | .0149 | .049 | .0019 | .057 | .00096 | .00157 | .0063 | .00041 | .00223 | .00838 | .00140 | .00331 |
| %RSD | .70030 | .09182 | .18193 | .29966 | .19613 | .34740 | .12004 | .08542 | .22451 | .85301 | 2.7068 | .33641 |
| #1 | 2.1325 | 53.192 | 1.0544 | 18.958 | .48988 | .45036 | 5.2120 | .47731 | .99109 | .97622 | -.05079 | .98104 |
| #2 | 2.1115 | 53.123 | 1.0572 | 19.038 | .49124 | .45258 | 5.2209 | .47789 | .99424 | .98807 | -.05277 | .98572 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99712** | F **4.3069** | **.91003** | **.51471** | **.00245** | **.48786** | **.94291** | **.03403** | **.46622** | **.48380** | **.45778** |
| Stddev | .00446 | .0179 | .00535 | .00030 | .00044 | .00118 | .00450 | .00131 | .00111 | .00013 | .00248 |
| %RSD | .44722 | .41606 | .58741 | .05842 | 18.038 | .24127 | .47724 | 3.8467 | .23757 | .02616 | .54223 |
| #1 | .99397 | 4.3195 | .90625 | .51450 | .00214 | .48703 | .93973 | .03495 | .46544 | .48371 | .45603 |
| #2 | 1.0003 | 4.2942 | .91381 | .51493 | .00277 | .48869 | .94609 | .03310 | .46700 | .48389 | .45954 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5351.0** | **66280.** | **3354.2** |
| Stddev | 5.5 | 72. | .4 |
| %RSD | .10342 | .10792 | .01312 |
| #1 | 5354.9 | 66330. | 3354.6 |
| #2 | 5347.1 | 66229. | 3353.9 |

Sample Name: CCB Acquired: 5/17/2013 17:02:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00131** | F **.05049** | **.00140** | W **.00184** | W **.00083** | **.00009** | **.00265** | F **.14265** | **-.00027** | **.00037** | **.00023** |
| Stddev | .00014 | .00490 | .00518 | .00003 | .00091 | .00011 | .00288 | .01087 | .00007 | .00014 | .00015 |
| %RSD | 10.667 | 9.7085 | 369.57 | 1.5047 | 110.20 | 126.77 | 108.81 | 7.6179 | 26.767 | 37.169 | 67.714 |
| | | | | | | | | | | | |
| #1 | .00121 | .05395 | .00506 | .00182 | .00147 | .00001 | .00061 | .15033 | -.00022 | .00027 | .00012 |
| #2 | .00141 | .04702 | -.00226 | .00186 | .00018 | .00016 | .00469 | .13496 | -.00033 | .00047 | .00034 |
| | | | | | | | | | | | |
| Check ? | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | .03600 | | .00156 | .00058 | | | .06900 | | | |
| Low Limit | -.00093 | -.03600 | | -.00156 | -.00058 | | | -.06900 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00148** | F **.04439** | F **1.0581** | W **-.00349** | F **.02700** | F **.00103** | **.00072** | F **.28588** | **.00086** | **.00415** | **.00141** |
| Stddev | .00014 | .00292 | .0170 | .00378 | .00142 | .00006 | .00005 | .01925 | .00013 | .00126 | .00055 |
| %RSD | 9.6565 | 6.5838 | 1.6111 | 108.25 | 5.2449 | 5.4536 | 6.6968 | 6.7321 | 15.124 | 30.483 | 38.723 |
| | | | | | | | | | | | |
| #1 | -.00158 | .04232 | 1.0702 | -.00616 | .02800 | .00099 | .00069 | .29948 | .00076 | .00325 | .00102 |
| #2 | -.00138 | .04645 | 1.0461 | -.00082 | .02599 | .00107 | .00075 | .27227 | .00095 | .00504 | .00180 |
| | | | | | | | | | | | |
| Check ? | Chk Warn | Chk Fail | Chk Fail | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | .04400 | .25000 | .00261 | .02140 | .00051 | | .10000 | | | |
| Low Limit | -.00136 | -.04400 | -.25000 | -.00261 | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05093** | W **.00345** | **-.00046** | **-.00196** | **-.00062** | W **.00060** | **.00565** | F **.00129** | **.00088** | **.01642** | **.00062** |
| Stddev | .00165 | .00037 | .00088 | .00814 | .00045 | .00000 | .00120 | .00000 | .00096 | .06493 | .00045 |
| %RSD | 3.2401 | 10.816 | 193.40 | 416.01 | 71.873 | .66960 | 21.231 | .15119 | 108.86 | 395.54 | 73.507 |
| | | | | | | | | | | | |
| #1 | -.04976 | .00319 | -.00108 | .00380 | -.00031 | .00059 | .00650 | .00129 | .00156 | -.02950 | .00030 |
| #2 | -.05210 | .00371 | .00017 | -.00772 | -.00094 | .00060 | .00480 | .00129 | .00020 | .06233 | .00094 |
| | | | | | | | | | | | |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | .00030 | | .00119 | | | |
| Low Limit | | -.00314 | | | | -.00030 | | -.00119 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00390** | W **.00328** |
| Stddev | .00045 | .00082 |
| %RSD | 11.553 | 24.967 |
| | | |
| #1 | .00421 | .00270 |
| #2 | .00358 | .00385 |
| | | |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5416.7** | **67706.** | **3402.7** |
| Stddev | 29.2 | 66. | 1.2 |
| %RSD | .53931 | .09692 | .03494 |
| | | | |
| #1 | 5437.4 | 67659. | 3401.9 |
| #2 | 5396.1 | 67752. | 3403.6 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 17:05:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01199** | **.11183** | **.01593** | **.10685** | **.01094** | **.00089** | **.10657** | F **.31968** | **.00489** | **.01082** | **.00968** |
| Stddev | .00028 | .00714 | .00037 | .00057 | .00048 | .00005 | .00230 | .00543 | .00037 | .00010 | .00015 |
| %RSD | 2.3577 | 6.3889 | 2.2942 | .53246 | 4.4060 | 5.6752 | 2.1593 | 1.6996 | 7.4746 | .95346 | 1.5688 |
| #1 | .01179 | .11688 | .01567 | .10726 | .01060 | .00085 | .10820 | .32352 | .00463 | .01089 | .00979 |
| #2 | .01219 | .10678 | .01619 | .10645 | .01129 | .00093 | .10494 | .31584 | .00515 | .01074 | .00957 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .20000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01262** | **.11836** | F **4.2906** | **.00846** | **.21674** | **.01094** | **.01889** | F **1.3279** | **.04030** | **3.0359** | W **.01132** |
| Stddev | .00003 | .00769 | .0478 | .00145 | .00020 | .00001 | .00004 | .0155 | .00037 | .0139 | .00062 |
| %RSD | .26939 | 6.4930 | 1.1150 | 17.073 | .09003 | .07038 | .21253 | 1.1677 | .92646 | .45781 | 5.4365 |
| #1 | .01264 | .12380 | 4.3245 | .00949 | .21688 | .01094 | .01892 | 1.3169 | .04004 | 3.0261 | .01176 |
| #2 | .01259 | .11293 | 4.2568 | .00744 | .21660 | .01093 | .01886 | 1.3388 | .04056 | 3.0458 | .01089 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| Value | | | 3.0000 | | | | | 1.0000 | | | .00900 |
| Range | | | 30.000% | | | | | 30.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05352** | **.01160** | F **.02003** | **.47749** | **.09316** | **.01101** | **.01750** | **.01061** | **.01442** | F **.09850** | **.01009** |
| Stddev | .00332 | .00076 | .00043 | .01598 | .00007 | .00007 | .00149 | .00023 | .00011 | .01760 | .00062 |
| %RSD | 6.2018 | 6.5502 | 2.1460 | 3.3475 | .07862 | .62162 | 8.5416 | 2.1518 | .77337 | 17.868 | 6.1830 |
| #1 | -.05118 | .01213 | .02033 | .48880 | .09321 | .01106 | .01644 | .01077 | .01450 | .08606 | .01053 |
| #2 | -.05587 | .01106 | .01973 | .46619 | .09311 | .01096 | .01856 | .01045 | .01434 | .11095 | .00965 |
| Check ? | None | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | 30.000% | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02663** | W **.01801** |
| Stddev | .00028 | .00591 |
| %RSD | 1.0568 | 32.799 |
| #1 | .02643 | .01383 |
| #2 | .02682 | .02219 |
| Check ? | Chk Fail | Chk Warn |
| Value | .02000 | .01500 |
| Range | 30.000% | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5451.3** | **67550.** | **3408.8** |
| Stddev | 15.2 | 271. | 18.8 |
| %RSD | .27933 | .40076 | .55295 |
| #1 | 5462.1 | 67359. | 3422.1 |
| #2 | 5440.5 | 67742. | 3395.5 |

Sample Name: MB 280-173665/1-A Acquired: 5/17/2013 17:07:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **.01806** | **.00090** | F **.02431** | **.00059** | **.00004** | **-.00097** | **.07011** | **.00010** |
| Stddev | .00051 | .00044 | .00093 | .00018 | .00059 | .00003 | .00070 | .00099 | .00009 |
| %RSD | 37.413 | 2.4118 | 103.63 | .73716 | 99.769 | 86.641 | 72.179 | 1.4188 | 92.142 |
| #1 | .00101 | .01776 | .00156 | .02419 | .00017 | .00001 | -.00048 | .07082 | .00017 |
| #2 | .00173 | .01837 | .00024 | .02444 | .00100 | .00006 | -.00147 | .06941 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00015** | **.00005** | W **.03089** | W **1.0269** | **-.00337** | **.01271** | **.00121** | **.00031** |
| Stddev | .00002 | .00019 | .00018 | .00062 | .0101 | .00274 | .00076 | .00001 | .00020 |
| %RSD | 27.935 | 123.87 | 371.01 | 2.0061 | .98625 | 81.312 | 5.9630 | .73203 | 63.395 |
| #1 | .00006 | .00002 | .00018 | .03133 | 1.0340 | -.00143 | .01217 | .00120 | .00045 |
| #2 | .00009 | .00029 | -.00008 | .03045 | 1.0197 | -.00531 | .01324 | .00122 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | 1.0000 | | | | |
| Low Limit | | | | -.05000 | -1.0000 | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.53160** | **.00022** | F **.09683** | **.00077** | **-.02708** | **.00228** | **-.00217** | W **.06464** | **.00573** |
| Stddev | .00846 | .00028 | .00084 | .00097 | .00036 | .00120 | .00453 | .01814 | .00078 |
| %RSD | 1.5913 | 126.80 | .86880 | 124.95 | 1.3433 | 52.752 | 208.13 | 28.059 | 13.710 |
| #1 | .53758 | .00042 | .09624 | .00009 | -.02733 | .00313 | -.00537 | .07746 | .00517 |
| #2 | .52562 | .00002 | .09743 | .00146 | -.02682 | .00143 | .00103 | .05181 | .00628 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .50000 | | .01000 | | | | | .05000 | |
| Low Limit | -.50000 | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.00412** | **.00061** | **-.00132** | **.01265** | **.00005** | **.00350** | **.00105** |
| Stddev | .00016 | .00018 | .00061 | .00090 | .00196 | .00078 | .00032 | .00094 |
| %RSD | 190.74 | 4.4296 | 99.750 | 68.555 | 15.521 | 1485.0 | 9.1607 | 89.200 |
| #1 | -.00020 | .00399 | .00018 | -.00195 | .01126 | -.00050 | .00372 | .00171 |
| #2 | .00003 | .00425 | .00104 | -.00068 | .01403 | .00060 | .00327 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5382.5** | **67086.** | **3370.5** |
| Stddev | 9.8 | 7. | 30.7 |
| %RSD | .18131 | .01046 | .90944 |
| #1 | 5389.4 | 67091. | 3348.9 |
| #2 | 5375.6 | 67081. | 3392.2 |

Sample Name: LCS 280-173665/2-A Acquired: 5/17/2013 17:09:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05117** | **1.9339** | **.90901** | F **1.1355** | **1.9603** | **.04290** | **1.9081** | **44.431** | **.09641** |
| Stddev | .00076 | .0030 | .00633 | .0073 | .0014 | .00005 | .0154 | .043 | .00091 |
| %RSD | 1.4890 | .15524 | .69588 | .64368 | .06927 | .11670 | .80565 | .09658 | .94050 |
| #1 | .05063 | 1.9317 | .90454 | 1.1303 | 1.9594 | .04286 | 1.8972 | 44.401 | .09577 |
| #2 | .05171 | 1.9360 | .91349 | 1.1407 | 1.9613 | .04294 | 1.9189 | 44.462 | .09705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48070** | **.18369** | **.22774** | F **.82271** | **52.575** | **1.0330** | **45.732** | **.47375** | **.89249** |
| Stddev | .00284 | .00106 | .00078 | .00735 | .001 | .0030 | .018 | .00097 | .00131 |
| %RSD | .59080 | .57642 | .34368 | .89389 | .00101 | .29238 | .03925 | .20495 | .14675 |
| #1 | .47869 | .18294 | .22719 | .82791 | 52.575 | 1.0309 | 45.744 | .47306 | .89157 |
| #2 | .48271 | .18444 | .22829 | .81751 | 52.575 | 1.0351 | 45.719 | .47443 | .89342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.2000 | | | | | |
| Low Limit | | | | .87000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.631** | **.46187** | **9.8948** | **.47109** | **-.03002** | **.48389** | **1.9462** | **2.3346** | **1.7839** |
| Stddev | .221 | .00253 | .0083 | .00326 | .00049 | .00159 | .0024 | .0154 | .0031 |
| %RSD | .41235 | .54710 | .08433 | .69122 | 1.6366 | .32868 | .12101 | .65744 | .17419 |
| #1 | 53.787 | .46008 | 9.8889 | .46879 | -.02968 | .48501 | 1.9445 | 2.3237 | 1.7817 |
| #2 | 53.474 | .46365 | 9.9007 | .47340 | -.03037 | .48276 | 1.9478 | 2.3454 | 1.7861 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0056** | **1.0156** | **.95872** | **1.8428** | **1.9779** | **.46099** | **.46278** | **.44094** |
| Stddev | .0014 | .0005 | .00140 | .0008 | .0041 | .00101 | .00015 | .00249 |
| %RSD | .13497 | .05252 | .14638 | .04612 | .20551 | .21991 | .03231 | .56573 |
| #1 | 1.0046 | 1.0152 | .95773 | 1.8422 | 1.9750 | .46028 | .46288 | .43918 |
| #2 | 1.0066 | 1.0160 | .95971 | 1.8434 | 1.9808 | .46171 | .46267 | .44271 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5180.4** | **65370.** | **3364.8** |
| Stddev | 3.1 | 19. | 7.4 |
| %RSD | .05976 | .02833 | .21935 |
| #1 | 5178.2 | 65356. | 3370.0 |
| #2 | 5182.6 | 65383. | 3359.6 |

Sample Name: 280-42043-A-1-A Acquired: 5/17/2013 17:12:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **62.962** | **.03868** | **.03537** | **.31807** | **.00267** | **-.00147** | W **775.30** | **.00378** |
| Stddev | .00002 | .348 | .00108 | .00022 | .00243 | .00002 | .00169 | 1.03 | .00019 |
| %RSD | 1.5002 | .55286 | 2.7899 | .63461 | .76336 | .66591 | 114.98 | .13284 | 5.0378 |
| #1 | .00140 | 62.716 | .03792 | .03552 | .31635 | .00269 | -.00027 | 776.03 | .00365 |
| #2 | .00137 | 63.208 | .03944 | .03521 | .31979 | .00266 | -.00266 | 774.57 | .00392 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05240** | **.11042** | **.41694** | **124.50** | **10.042** | **.13592** | **41.765** | **6.2247** | **.00346** |
| Stddev | .00011 | .00007 | .00044 | .75 | .038 | .00118 | .056 | .0323 | .00014 |
| %RSD | .21033 | .06533 | .10637 | .60458 | .38028 | .86872 | .13294 | .51864 | 3.9314 |
| #1 | .05232 | .11037 | .41726 | 123.97 | 10.015 | .13508 | 41.805 | 6.2019 | .00336 |
| #2 | .05248 | .11047 | .41663 | 125.03 | 10.069 | .13675 | 41.726 | 6.2475 | .00355 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2901** | **.13737** | **4.4682** | **.15683** | **3.9877** | **.00142** | **.00370** | **1.6152** | **.00729** |
| Stddev | .0134 | .00013 | .0014 | .00058 | .0021 | .00233 | .00256 | .0017 | .00082 |
| %RSD | 1.0361 | .09216 | .03079 | .37068 | .05249 | 164.04 | 69.136 | .10391 | 11.264 |
| #1 | 1.2806 | .13728 | 4.4691 | .15641 | 3.9892 | .00307 | .00189 | 1.6164 | .00787 |
| #2 | 1.2995 | .13746 | 4.4672 | .15724 | 3.9862 | -.00023 | .00551 | 1.6140 | .00671 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.84510** | **.06052** | **.39500** | **-.00261** | W **-.05257** | **.23133** | **.57712** | **.03018** |
| Stddev | .00497 | .00117 | .00047 | .00030 | .02280 | .00019 | .00071 | .00287 |
| %RSD | .58827 | 1.9297 | .12015 | 11.449 | 43.368 | .08068 | .12372 | 9.5223 |
| #1 | .84158 | .05969 | .39533 | -.00282 | -.06869 | .23146 | .57762 | .02814 |
| #2 | .84862 | .06134 | .39466 | -.00240 | -.03645 | .23120 | .57661 | .03221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5362.8** | **67073.** | **3616.6** |
| Stddev | 25.4 | 42. | 24.3 |
| %RSD | .47324 | .06189 | .67078 |
| #1 | 5380.8 | 67044. | 3633.8 |
| #2 | 5344.9 | 67102. | 3599.5 |

Sample Name: 280-42043-A-2-A  Acquired: 5/17/2013 17:15:13  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00252** | **86.371** | **.03831** | **.02660** | **.40184** | **.00350** | **.00546** | **190.29** | **.00190** |
| Stddev | .00009 | .642 | .00056 | .00102 | .00215 | .00005 | .00126 | 1.54 | .00029 |
| %RSD | 3.7514 | .74351 | 1.4551 | 3.8475 | .53406 | 1.5668 | 23.072 | .80900 | 15.261 |
| #1 | .00259 | 86.825 | .03871 | .02732 | .40336 | .00354 | .00457 | 191.38 | .00210 |
| #2 | .00246 | 85.917 | .03792 | .02588 | .40032 | .00346 | .00635 | 189.20 | .00169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06517** | **.11326** | **.23911** | **178.40** | **10.401** | **.16827** | **40.853** | W **11.477** | **.00391** |
| Stddev | .00037 | .00062 | .00048 | .30 | .007 | .00080 | .007 | .048 | .00044 |
| %RSD | .57089 | .54716 | .19883 | .16836 | .06461 | .47722 | .01831 | .41833 | 11.153 |
| #1 | .06543 | .11370 | .23944 | 178.61 | 10.396 | .16883 | 40.847 | 11.443 | .00360 |
| #2 | .06490 | .11282 | .23877 | 178.18 | 10.406 | .16770 | 40.858 | 11.511 | .00422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1747** | **.14008** | **5.2789** | **.06955** | **1.7875** | **-.00430** | **-.00031** | **3.1706** | **.00477** |
| Stddev | .0138 | .00157 | .0477 | .00025 | .0113 | .00226 | .00105 | .0161 | .00038 |
| %RSD | 1.1760 | 1.1226 | .90351 | .35761 | .63063 | 52.456 | 338.49 | .50730 | 7.9553 |
| #1 | 1.1845 | .14119 | 5.3126 | .06973 | 1.7955 | -.00271 | .00043 | 3.1593 | .00450 |
| #2 | 1.1649 | .13897 | 5.2451 | .06937 | 1.7795 | -.00590 | -.00105 | 3.1820 | .00504 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31467** | **.09997** | **.72581** | **-.00737** | **-.03660** | **.16852** | **.47182** | **.04958** |
| Stddev | .00267 | .00345 | .00092 | .00122 | .02813 | .00071 | .00226 | .00216 |
| %RSD | .84724 | 3.4514 | .12674 | 16.567 | 76.874 | .42260 | .47825 | 4.3555 |
| #1 | .31656 | .09753 | .72516 | -.00823 | -.01670 | .16902 | .47022 | .04805 |
| #2 | .31279 | .10241 | .72646 | -.00651 | -.05649 | .16801 | .47341 | .05110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5842.9** | **72783.** | **3854.8** |
| Stddev | 17.7 | 31. | 38.3 |
| %RSD | .30280 | .04278 | .99257 |
| #1 | 5830.4 | 72761. | 3827.7 |
| #2 | 5855.5 | 72805. | 3881.8 |

Sample Name: 280-42043-A-3-A Acquired: 5/17/2013 17:17:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00255** | **72.889** | **.03504** | **.02202** | **.30952** | **.00307** | **.00441** | **36.446** | **.00128** |
| Stddev | .00053 | .763 | .00181 | .00005 | .00384 | .00006 | .00033 | .393 | .00002 |
| %RSD | 20.852 | 1.0471 | 5.1533 | .24231 | 1.2401 | 1.8394 | 7.5563 | 1.0783 | 1.9057 |
| #1 | .00293 | 73.429 | .03632 | .02198 | .31223 | .00311 | .00464 | 36.724 | .00130 |
| #2 | .00218 | 72.349 | .03376 | .02206 | .30680 | .00303 | .00417 | 36.168 | .00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05596** | **.09299** | **.30427** | **168.38** | **9.9656** | **.14963** | **33.285** | W **10.884** | **.00311** |
| Stddev | .00019 | .00047 | .00088 | .32 | .0548 | .00148 | .027 | .041 | .00021 |
| %RSD | .33273 | .50694 | .28879 | .19148 | .54985 | .98777 | .08158 | .37693 | 6.6538 |
| #1 | .05609 | .09333 | .30489 | 168.61 | 10.004 | .15068 | 33.305 | 10.855 | .00296 |
| #2 | .05583 | .09266 | .30365 | 168.15 | 9.9268 | .14859 | 33.266 | 10.913 | .00325 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85480** | **.12985** | **4.7863** | **.04932** | **.09742** | **-.00397** | **.00479** | **1.7985** | **.00402** |
| Stddev | .00060 | .00001 | .0154 | .00092 | .00069 | .00320 | .00140 | .0050 | .00018 |
| %RSD | .07026 | .00502 | .32196 | 1.8733 | .70832 | 80.532 | 29.256 | .28033 | 4.5362 |
| #1 | .85438 | .12986 | 4.7972 | .04867 | .09694 | -.00171 | .00380 | 1.8021 | .00415 |
| #2 | .85523 | .12985 | 4.7754 | .04997 | .09791 | -.00624 | .00578 | 1.7949 | .00389 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07601** | **.08036** | **.52498** | **-.00659** | **-.03500** | **.13092** | **.47065** | **.04287** |
| Stddev | .00005 | .00066 | .00071 | .00050 | .03243 | .00048 | .00067 | .00110 |
| %RSD | .06618 | .82535 | .13509 | 7.6140 | 92.648 | .36524 | .14210 | 2.5626 |
| #1 | .07605 | .07989 | .52448 | -.00695 | -.01207 | .13126 | .47112 | .04209 |
| #2 | .07598 | .08083 | .52548 | -.00624 | -.05793 | .13058 | .47017 | .04365 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6033.8** | **74798.** | **3905.1** |
| Stddev | 19.2 | 154. | 51.1 |
| %RSD | .31851 | .20569 | 1.3093 |
| #1 | 6047.4 | 74907. | 3868.9 |
| #2 | 6020.2 | 74689. | 3941.2 |

Sample Name: 280-42043-A-4-A Acquired: 5/17/2013 17:20:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00231** | **68.713** | **.03991** | **.02263** | **.37851** | **.00262** | **.00367** | **288.01** | **.00413** |
| Stddev | .00026 | .238 | .00148 | .00028 | .00042 | .00012 | .00025 | .97 | .00001 |
| %RSD | 11.279 | .34632 | 3.7039 | 1.2428 | .11162 | 4.6059 | 6.8163 | .33724 | .23604 |
| #1 | .00250 | 68.881 | .04096 | .02243 | .37822 | .00271 | .00385 | 288.70 | .00414 |
| #2 | .00213 | 68.544 | .03887 | .02283 | .37881 | .00254 | .00350 | 287.33 | .00413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04955** | **.08689** | **.25969** | **135.02** | **8.4764** | **.12825** | **31.607** | **8.2973** | **.00449** |
| Stddev | .00043 | .00002 | .00080 | .11 | .0137 | .00015 | .040 | .0198 | .00006 |
| %RSD | .85957 | .01950 | .30797 | .08100 | .16165 | .11327 | .12611 | .23809 | 1.3019 |
| #1 | .04985 | .08690 | .26026 | 135.10 | 8.4861 | .12835 | 31.635 | 8.3113 | .00453 |
| #2 | .04925 | .08687 | .25913 | 134.94 | 8.4667 | .12815 | 31.579 | 8.2834 | .00445 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97462** | **.10798** | **4.3048** | **.15448** | **3.5823** | **-.00285** | **.00600** | **1.4201** | **.00409** |
| Stddev | .01718 | .00058 | .0055 | .00079 | .0035 | .00127 | .00055 | .0406 | .00087 |
| %RSD | 1.7623 | .53563 | .12779 | .50819 | .09775 | 44.725 | 9.2083 | 2.8619 | 21.363 |
| #1 | .98676 | .10839 | 4.3086 | .15503 | 3.5847 | -.00195 | .00640 | 1.3913 | .00470 |
| #2 | .96247 | .10757 | 4.3009 | .15392 | 3.5798 | -.00375 | .00561 | 1.4488 | .00347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39366** | **.06543** | **.35300** | **-.00374** | **-.01068** | **.13103** | **.58137** | **.02598** |
| Stddev | .00112 | .00084 | .00190 | .00006 | .03898 | .00035 | .00310 | .00052 |
| %RSD | .28550 | 1.2796 | .53845 | 1.6857 | 364.96 | .26589 | .53360 | 2.0040 |
| #1 | .39445 | .06484 | .35165 | -.00370 | .01688 | .13128 | .58357 | .02634 |
| #2 | .39287 | .06602 | .35434 | -.00379 | -.03824 | .13078 | .57918 | .02561 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5521.8** | **69399.** | **3649.4** |
| Stddev | 8.9 | 113. | 4.7 |
| %RSD | .16121 | .16283 | .12991 |
| #1 | 5528.1 | 69479. | 3646.1 |
| #2 | 5515.5 | 69319. | 3652.8 |

Sample Name: 280-42043-A-5-A  Acquired: 5/17/2013 17:22:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00154** | **71.889** | **.03943** | **.02993** | **.38273** | **.00304** | **.00026** | **347.49** | **.00320** |
| Stddev | .00047 | .590 | .00330 | .00066 | .00241 | .00004 | .00167 | 2.52 | .00029 |
| %RSD | 30.490 | .82024 | 8.3585 | 2.1950 | .62896 | 1.3345 | 632.32 | .72459 | 9.1393 |
| #1 | .00188 | 72.306 | .03710 | .02946 | .38443 | .00306 | -.00092 | 349.27 | .00300 |
| #2 | .00121 | 71.472 | .04176 | .03039 | .38103 | .00301 | .00145 | 345.71 | .00341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05207** | **.10426** | **.26118** | **149.20** | **9.9019** | **.13131** | **35.101** | **9.6088** | **.00511** |
| Stddev | .00012 | .00016 | .00063 | .32 | .0652 | .00058 | .058 | .0082 | .00025 |
| %RSD | .22213 | .14884 | .24117 | .21710 | .65845 | .44269 | .16606 | .08549 | 4.8419 |
| #1 | .05215 | .10437 | .26162 | 149.43 | 9.9480 | .13172 | 35.143 | 9.6030 | .00528 |
| #2 | .05199 | .10415 | .26073 | 148.97 | 9.8558 | .13090 | 35.060 | 9.6146 | .00493 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1772** | **.11585** | **4.3206** | **.20346** | **2.7743** | **-.00041** | **.00038** | **2.7196** | **.00489** |
| Stddev | .0061 | .00050 | .0045 | .00245 | .0083 | .00328 | .00327 | .0140 | .00115 |
| %RSD | .51489 | .43551 | .10306 | 1.2050 | .29750 | 800.05 | 864.62 | .51397 | 23.482 |
| #1 | 1.1729 | .11549 | 4.3237 | .20172 | 2.7685 | .00191 | -.00193 | 2.7097 | .00408 |
| #2 | 1.1815 | .11620 | 4.3174 | .20519 | 2.7802 | -.00273 | .00269 | 2.7295 | .00571 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47052** | **.07235** | **.59540** | **-.00541** | **-.02481** | **.15161** | **.62150** | **.03769** |
| Stddev | .00392 | .00155 | .00267 | .00043 | .04051 | .00066 | .00249 | .00104 |
| %RSD | .83400 | 2.1374 | .44782 | 7.9985 | 163.28 | .43495 | .40069 | 2.7527 |
| #1 | .47329 | .07126 | .59729 | -.00511 | -.05345 | .15207 | .62326 | .03842 |
| #2 | .46774 | .07344 | .59352 | -.00572 | .00383 | .15114 | .61974 | .03695 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5651.6** | **70415.** | **3712.6** |
| Stddev | 10.1 | 81. | 50.6 |
| %RSD | .17940 | .11440 | 1.3638 |
| #1 | 5644.4 | 70358. | 3676.8 |
| #2 | 5658.8 | 70472. | 3748.4 |

Sample Name: 280-42043-A-6-A  Acquired: 5/17/2013 17:24:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00279** | **82.640** | **.04715** | **.02240** | **.38022** | **.00328** | **.00318** | **148.02** | **.00462** |
| Stddev | .00000 | .081 | .00236 | .00024 | .00005 | .00002 | .00157 | .32 | .00002 |
| %RSD | .13450 | .09805 | 4.9964 | 1.0743 | .01310 | .65571 | 49.384 | .21530 | .45498 |
| #1 | .00278 | 82.583 | .04549 | .02257 | .38018 | .00330 | .00207 | 147.80 | .00463 |
| #2 | .00279 | 82.697 | .04882 | .02223 | .38025 | .00327 | .00428 | 148.25 | .00460 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05946** | **.11966** | **.36763** | **272.26** | **10.418** | **.14942** | **34.495** | W **14.055** | **.00788** |
| Stddev | .00004 | .00008 | .00144 | .91 | .042 | .00067 | .112 | .035 | .00007 |
| %RSD | .07166 | .06650 | .39179 | .33574 | .40544 | .44982 | .32401 | .24859 | .89988 |
| #1 | .05949 | .11960 | .36865 | 271.61 | 10.388 | .14894 | 34.574 | 14.079 | .00794 |
| #2 | .05943 | .11972 | .36661 | 272.90 | 10.448 | .14989 | 34.416 | 14.030 | .00783 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94903** | **.14035** | **4.9396** | **.18350** | **.44319** | **-.00377** | **.00506** | **2.5956** | **.00912** |
| Stddev | .01064 | .00033 | .0083 | .00151 | .00581 | .00091 | .00180 | .0133 | .00067 |
| %RSD | 1.1212 | .23413 | .16860 | .82260 | 1.3108 | 24.081 | 35.603 | .51083 | 7.3131 |
| #1 | .94151 | .14058 | 4.9455 | .18244 | .44730 | -.00441 | .00379 | 2.6050 | .00864 |
| #2 | .95656 | .14012 | 4.9337 | .18457 | .43909 | -.00313 | .00634 | 2.5862 | .00959 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19405** | **.11338** | **.44678** | **-.00950** | **-.02925** | **.15523** | **2.0356** | **.05091** |
| Stddev | .00101 | .00147 | .00316 | .00233 | .00319 | .00025 | .0075 | .00202 |
| %RSD | .52038 | 1.2927 | .70622 | 24.523 | 10.900 | .16235 | .36895 | 3.9672 |
| #1 | .19334 | .11441 | .44901 | -.00786 | -.03150 | .15541 | 2.0409 | .05234 |
| #2 | .19476 | .11234 | .44455 | -.01115 | -.02699 | .15505 | 2.0303 | .04948 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5974.8** | **74486.** | **3908.4** |
| Stddev | 6.6 | 56. | 4.3 |
| %RSD | .10984 | .07480 | .10894 |
| #1 | 5970.1 | 74446. | 3911.4 |
| #2 | 5979.4 | 74525. | 3905.4 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 17:27:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00065** | **45.840** | **-.00014** | **.00140** | **.00049** | **.00000** | **.94736** | **.18647** | **-.00081** | **.00224** | **-.00005** | **-.00305** |
| Stddev | .00088 | .178 | .00005 | .00018 | .00063 | .00008 | .00073 | .01124 | .00007 | .00004 | .00016 | .00015 |
| %RSD | 135.48 | .38910 | 31.622 | 12.863 | 128.43 | 11539. | .07687 | 6.0296 | 9.2128 | 1.9310 | 303.17 | 4.8945 |
| #1 | -.00127 | 45.966 | -.00018 | .00127 | .00004 | .00006 | .94787 | .19442 | -.00076 | .00227 | -.00016 | -.00294 |
| #2 | -.00003 | 45.714 | -.00011 | .00152 | .00093 | -.00006 | .94684 | .17852 | -.00087 | .00221 | .00006 | -.00315 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.849** | **.72722** | **-.00135** | **.03391** | **.00562** | **-.00176** | **262.44** | **.00145** | **.00931** | **.00214** | **4.7102** | **.00061** |
| Stddev | .140 | .08239 | .00340 | .00302 | .00000 | .00013 | 2.01 | .00003 | .00066 | .00079 | .0005 | .00049 |
| %RSD | .36113 | 11.329 | 251.75 | 8.9096 | .08305 | 7.3877 | .76725 | 2.3336 | 7.1266 | 36.960 | .01018 | 80.423 |
| #1 | 38.948 | .66896 | .00105 | .03605 | .00562 | -.00186 | 263.87 | .00143 | .00978 | .00158 | 4.7099 | .00096 |
| #2 | 38.750 | .78548 | -.00376 | .03178 | .00563 | -.00167 | 261.02 | .00147 | .00884 | .00271 | 4.7106 | .00026 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00662** | **.01418** | **-.00020** | **.00064** | **5.0014** | **.00405** | **-.00188** | **9.6366** | **-.00025** | **.00422** | **-.06578** |
| Stddev | .00085 | .01708 | .00016 | .00009 | .0081 | .00014 | .00096 | .0488 | .00023 | .00015 | .00163 |
| %RSD | 12.767 | 120.51 | 80.124 | 13.478 | .16124 | 3.5393 | 50.819 | .50674 | 94.781 | 3.6658 | 2.4709 |
| #1 | .00602 | .00210 | -.00009 | .00070 | 4.9957 | .00415 | -.00120 | 9.6711 | -.00008 | .00433 | -.06463 |
| #2 | .00722 | .02626 | -.00031 | .00058 | 5.0071 | .00395 | -.00256 | 9.6020 | -.00041 | .00411 | -.06693 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5228.7** | **65310.** | **3328.6** |
| Stddev | 18.9 | 248. | 18.4 |
| %RSD | .36184 | .37913 | .55408 |
| #1 | 5242.1 | 65485. | 3315.5 |
| #2 | 5215.3 | 65135. | 3341.6 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 17:29:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50829** | **.49649** | **.94490** | **.50416** | **.50340** | F **.43741** | **.00486** | **4.6306** | **.48889** | **.49932** | **.46903** | **.46594** |
| Stddev | .00069 | .00083 | .00144 | .00164 | .00009 | .00026 | .00206 | .0182 | .00033 | .00215 | .00027 | .00205 |
| %RSD | .13496 | .16767 | .15263 | .32621 | .01811 | .05896 | 42.373 | .39279 | .06719 | .42985 | .05829 | .43946 |
| #1 | .50780 | .49708 | .94592 | .50300 | .50334 | .43722 | .00340 | 4.6177 | .48865 | .50084 | .46884 | .46449 |
| #2 | .50877 | .49590 | .94389 | .50532 | .50347 | .43759 | .00632 | 4.6434 | .48912 | .49780 | .46922 | .46739 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0566** | **53.698** | **1.0670** | **19.117** | **.49217** | **.45519** | **5.2125** | **.48076** | **.99136** | **.98573** | **-.05890** | **.98349** |
| Stddev | .0033 | .071 | .0020 | .016 | .00034 | .00154 | .0118 | .00110 | .00058 | .00277 | .00042 | .00012 |
| %RSD | .16160 | .13208 | .18475 | .08555 | .06972 | .33738 | .22696 | .22935 | .05856 | .28054 | .71191 | .01183 |
| #1 | 2.0542 | 53.648 | 1.0656 | 19.106 | .49193 | .45628 | 5.2209 | .48154 | .99094 | .98769 | -.05920 | .98357 |
| #2 | 2.0589 | 53.748 | 1.0684 | 19.129 | .49241 | .45411 | 5.2041 | .47998 | .99177 | .98378 | -.05860 | .98341 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0065** | F **4.2722** | **.91349** | **.51629** | **.00046** | **.48863** | **.94355** | **.04228** | **.47169** | **.48665** | **.46365** |
| Stddev | .0076 | .0118 | .00178 | .00176 | .00084 | .00165 | .00193 | .05754 | .00003 | .00062 | .00331 |
| %RSD | .75703 | .27515 | .19436 | .34082 | 184.72 | .33732 | .20499 | 136.08 | .00547 | .12709 | .71493 |
| #1 | 1.0119 | 4.2805 | .91224 | .51505 | -.00014 | .48746 | .94219 | .00160 | .47167 | .48621 | .46599 |
| #2 | 1.0011 | 4.2639 | .91475 | .51754 | .00105 | .48979 | .94492 | .08297 | .47171 | .48709 | .46130 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5290.0** | **64999.** | **3291.3** |
| Stddev | 20.5 | 72. | 24.0 |
| %RSD | .38837 | .11031 | .72776 |
| #1 | 5275.5 | 64948. | 3308.3 |
| #2 | 5304.5 | 65049. | 3274.4 |

Sample Name: CCB Acquired: 5/17/2013 17:31:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00135** | **.00034** | **-.00044** | **.00083** | **.00027** | **-.00006** | **.00285** | **-.00913** | **-.00007** | **-.00008** | **-.00009** |
| Stddev | .00009 | .00005 | .00144 | .00034 | .00018 | .00001 | .00138 | .00201 | .00010 | .00028 | .00025 |
| %RSD | 6.9568 | 15.807 | 326.62 | 41.147 | 65.883 | 20.269 | 48.410 | 21.962 | 132.74 | 350.64 | 295.03 |
| #1 | .00128 | .00030 | .00058 | .00108 | .00015 | -.00006 | .00383 | -.00771 | -.00014 | -.00028 | -.00027 |
| #2 | .00142 | .00037 | -.00146 | .00059 | .00040 | -.00007 | .00187 | -.01055 | -.00000 | .00012 | .00009 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00149** | **.00289** | F **.64132** | W **-.00352** | **-.00134** | **.00004** | **.00036** | F **.21239** | **.00061** | **.00096** | **.00067** |
| Stddev | .00042 | .00259 | .05902 | .00269 | .00195 | .00002 | .00003 | .01032 | .00001 | .00058 | .00036 |
| %RSD | 28.462 | 89.527 | 9.2029 | 76.594 | 146.31 | 45.064 | 8.6366 | 4.8578 | 2.4129 | 60.508 | 54.441 |
| #1 | -.00179 | .00472 | .59958 | -.00542 | .00005 | .00003 | .00034 | .21969 | .00060 | .00136 | .00041 |
| #2 | -.00119 | .00106 | .68305 | -.00161 | -.00272 | .00005 | .00038 | .20510 | .00062 | .00055 | .00092 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | .25000 | .00261 | | | | .10000 | | | |
| Low Limit | -.00136 | | -.25000 | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05619** | **-.00057** | **.00205** | **-.00235** | **-.00230** | **-.00013** | **.00222** | **-.00002** | **.00041** | **.01098** | **.00017** |
| Stddev | .00011 | .00003 | .00451 | .00316 | .00019 | .00002 | .00181 | .00021 | .00038 | .00728 | .00063 |
| %RSD | .19859 | 4.7063 | 220.08 | 134.91 | 8.4153 | 12.609 | 81.303 | 901.81 | 91.449 | 66.341 | 369.80 |
| #1 | -.05627 | -.00059 | -.00114 | -.00011 | -.00244 | -.00014 | .00095 | -.00017 | .00015 | .01613 | -.00028 |
| #2 | -.05612 | -.00055 | .00524 | -.00458 | -.00216 | -.00012 | .00350 | .00012 | .00068 | .00583 | .00062 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00190** | **.00056** |
| Stddev | .00014 | .00127 |
| %RSD | 7.1668 | 227.53 |
| #1 | .00180 | -.00034 |
| #2 | .00199 | .00146 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5388.3** | **67444.** | **3322.6** |
| Stddev | 7.9 | 306. | 18.8 |
| %RSD | .14583 | .45383 | .56569 |
| #1 | 5393.9 | 67228. | 3309.3 |
| #2 | 5382.8 | 67660. | 3335.9 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 17:34:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01172** | **.10482** | **.01623** | **.10299** | **.01030** | W **.00071** | **.10623** | **.18294** | **.00469** | **.01070** | **.00973** |
| Stddev | .00013 | .00013 | .00171 | .00061 | .00051 | .00006 | .00175 | .00611 | .00037 | .00043 | .00012 |
| %RSD | 1.1059 | .12357 | 10.556 | .59333 | 4.9826 | 8.8618 | 1.6469 | 3.3384 | 7.8577 | 4.0047 | 1.2453 |
| #1 | .01163 | .10491 | .01744 | .10343 | .00994 | .00066 | .10747 | .18726 | .00443 | .01100 | .00982 |
| #2 | .01181 | .10473 | .01502 | .10256 | .01067 | .00075 | .10499 | .17862 | .00495 | .01039 | .00964 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01227** | **.08100** | W **3.8642** | W **.00718** | **.19622** | **.00998** | **.01827** | W **1.2447** | **.03967** | **2.9772** | **.00921** |
| Stddev | .00030 | .00197 | .0238 | .00007 | .00153 | .00002 | .00039 | .0193 | .00004 | .0048 | .00056 |
| %RSD | 2.4523 | 2.4362 | .61494 | 1.0118 | .77943 | .21821 | 2.1315 | 1.5550 | .10839 | .16109 | 6.1169 |
| #1 | .01248 | .08240 | 3.8810 | .00723 | .19730 | .01000 | .01799 | 1.2583 | .03970 | 2.9738 | .00882 |
| #2 | .01205 | .07961 | 3.8473 | .00713 | .19514 | .00997 | .01855 | 1.2310 | .03964 | 2.9806 | .00961 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | .01000 | | | | 1.0000 | | | |
| Range | | | 20.000% | -20.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05936** | W **.01284** | **.01637** | **.42618** | **.09231** | **.01034** | **.01741** | **.00978** | **.01625** | F **.08305** | **.00915** |
| Stddev | .00357 | .00002 | .00725 | .00912 | .00013 | .00009 | .00062 | .00028 | .00013 | .03823 | .00039 |
| %RSD | 6.0158 | .14557 | 44.285 | 2.1402 | .13708 | .85042 | 3.5573 | 2.8565 | .82322 | 46.036 | 4.3015 |
| #1 | -.06188 | .01285 | .01125 | .43263 | .09222 | .01040 | .01698 | .00959 | .01634 | .11009 | .00943 |
| #2 | -.05683 | .01282 | .02150 | .41973 | .09240 | .01028 | .01785 | .00998 | .01615 | .05602 | .00888 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02252** | **.01725** |
| Stddev | .00025 | .00084 |
| %RSD | 1.0991 | 4.8836 |
| #1 | .02235 | .01666 |
| #2 | .02270 | .01785 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5406.1** | **67260.** | **3374.9** |
| Stddev | 10.5 | 79. | 3.5 |
| %RSD | .19456 | .11740 | .10515 |
| #1 | 5398.6 | 67316. | 3377.5 |
| #2 | 5413.5 | 67204. | 3372.4 |

Sample Name: 280-42043-A-7-A Acquired: 5/17/2013 17:36:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00145** | **54.057** | **.05761** | **.01980** | **.23693** | **.00181** | **.00614** | **197.62** | **.00130** |
| Stddev | .00072 | .091 | .00259 | .00030 | .00051 | .00006 | .00001 | .02 | .00007 |
| %RSD | 49.468 | .16805 | 4.5006 | 1.5021 | .21597 | 3.5418 | .16691 | .01152 | 5.2355 |
| #1 | .00196 | 53.993 | .05944 | .01959 | .23657 | .00185 | .00615 | 197.63 | .00125 |
| #2 | .00094 | 54.121 | .05577 | .02001 | .23730 | .00176 | .00614 | 197.60 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04378** | **.06898** | **.16706** | **114.55** | **7.2274** | **.10430** | **24.309** | **7.3172** | **.00152** |
| Stddev | .00028 | .00031 | .00066 | .22 | .0937 | .00133 | .035 | .0189 | .00009 |
| %RSD | .63377 | .45197 | .39425 | .19308 | 1.2960 | 1.2727 | .14314 | .25826 | 5.6273 |
| #1 | .04398 | .06920 | .16753 | 114.40 | 7.1612 | .10336 | 24.334 | 7.3038 | .00146 |
| #2 | .04359 | .06876 | .16660 | 114.71 | 7.2937 | .10524 | 24.284 | 7.3305 | .00158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.88544** | **.09089** | **4.4509** | **.05269** | **1.1294** | **.00096** | **.00460** | **2.1904** | **.00268** |
| Stddev | .00227 | .00027 | .0019 | .00343 | .0016 | .00148 | .00369 | .0566 | .00053 |
| %RSD | .25591 | .29938 | .04306 | 6.5132 | .13819 | 153.86 | 80.125 | 2.5838 | 19.637 |
| #1 | .88705 | .09108 | 4.4496 | .05512 | 1.1305 | -.00008 | .00199 | 2.2304 | .00231 |
| #2 | .88384 | .09070 | 4.4523 | .05027 | 1.1283 | .00200 | .00721 | 2.1504 | .00305 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23850** | **.05606** | **.32347** | **-.00514** | **-.03898** | **.10806** | **.30407** | **.03416** |
| Stddev | .00019 | .00037 | .00027 | .00041 | .01291 | .00072 | .00028 | .00136 |
| %RSD | .08152 | .66627 | .08489 | 7.9805 | 33.133 | .66949 | .09333 | 3.9851 |
| #1 | .23864 | .05579 | .32328 | -.00485 | -.02984 | .10755 | .30387 | .03320 |
| #2 | .23836 | .05632 | .32367 | -.00543 | -.04811 | .10857 | .30427 | .03513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5557.9** | **69327.** | **3621.8** |
| Stddev | 15.3 | 137. | 1.9 |
| %RSD | .27504 | .19708 | .05309 |
| #1 | 5547.1 | 69231. | 3620.4 |
| #2 | 5568.7 | 69424. | 3623.2 |

Sample Name: sd 280-42043-A-7-A@5 Acquired: 5/17/2013 17:39:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **11.802** | **.01383** | **.00408** | **.05197** | **.00026** | **-.00003** | **42.994** | **.00014** |
| Stddev | .00002 | .006 | .00186 | .00004 | .00020 | .00006 | .00027 | .046 | .00011 |
| %RSD | 1.5997 | .05164 | 13.424 | .86335 | .38286 | 21.696 | 941.04 | .10783 | 76.660 |
| #1 | .00099 | 11.806 | .01515 | .00410 | .05183 | .00030 | .00016 | 43.026 | .00006 |
| #2 | .00101 | 11.798 | .01252 | .00405 | .05211 | .00022 | -.00022 | 42.961 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00971** | **.01512** | **.03406** | **23.036** | **2.1134** | **.01980** | **5.2951** | **1.6149** | **.00060** |
| Stddev | .00039 | .00017 | .00018 | .028 | .0040 | .00089 | .0209 | .0036 | .00019 |
| %RSD | 4.0129 | 1.1432 | .52282 | .12093 | .18960 | 4.5159 | .39455 | .22093 | 32.245 |
| #1 | .00943 | .01524 | .03393 | 23.056 | 2.1162 | .01917 | 5.3099 | 1.6174 | .00073 |
| #2 | .00999 | .01500 | .03418 | 23.017 | 2.1105 | .02043 | 5.2803 | 1.6124 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40271** | **.02011** | **.93322** | **.01179** | **.18741** | **.00055** | **.00205** | **.49221** | **-.00075** |
| Stddev | .00268 | .00042 | .00612 | .00028 | .00092 | .00026 | .00300 | .00077 | .00043 |
| %RSD | .66665 | 2.0960 | .65553 | 2.3639 | .48840 | 48.139 | 146.04 | .15694 | 56.582 |
| #1 | .40461 | .01981 | .92889 | .01160 | .18805 | .00073 | -.00007 | .49276 | -.00045 |
| #2 | .40081 | .02041 | .93754 | .01199 | .18676 | .00036 | .00417 | .49166 | -.00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05166** | **.01519** | **.06989** | **-.00007** | **.01842** | **.02337** | **.06982** | **.01076** |
| Stddev | .00015 | .00084 | .00099 | .00175 | .00682 | .00041 | .00017 | .00137 |
| %RSD | .28747 | 5.5612 | 1.4165 | 2475.1 | 37.012 | 1.7473 | .24126 | 12.754 |
| #1 | .05156 | .01459 | .07059 | .00117 | .01360 | .02366 | .06994 | .01173 |
| #2 | .05177 | .01578 | .06919 | -.00131 | .02324 | .02308 | .06970 | .00979 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5288.4** | **65596.** | **3310.3** |
| Stddev | 20.6 | 39. | 9.3 |
| %RSD | .39048 | .05984 | .28080 |
| #1 | 5273.8 | 65569. | 3316.9 |
| #2 | 5303.0 | 65624. | 3303.8 |

Sample Name: 280-42043-A-7-B MS  Acquired: 5/17/2013 17:41:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04951** | **75.356** | **.90141** | **.96211** | **2.0993** | **.04148** | **1.8026** | W **512.30** | **.09160** |
| Stddev | .00041 | .139 | .00281 | .00093 | .0011 | .00019 | .0037 | 6.70 | .00018 |
| %RSD | .83031 | .18409 | .31218 | .09663 | .05359 | .46457 | .20453 | 1.3072 | .19349 |
| #1 | .04922 | 75.258 | .90340 | .96145 | 2.1001 | .04161 | 1.8052 | 507.56 | .09173 |
| #2 | .04980 | 75.454 | .89942 | .96276 | 2.0985 | .04134 | 1.8000 | 517.04 | .09148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47241** | **.25526** | **.37802** | **102.83** | **68.329** | **1.0900** | **68.862** | **6.7740** | **.81501** |
| Stddev | .00065 | .00083 | .00008 | .04 | .213 | .0014 | .100 | .0401 | .00028 |
| %RSD | .13776 | .32451 | .02159 | .03849 | .31164 | .12368 | .14568 | .59206 | .03449 |
| #1 | .47195 | .25468 | .37796 | 102.86 | 68.178 | 1.0890 | 68.933 | 6.8024 | .81482 |
| #2 | .47287 | .25585 | .37807 | 102.80 | 68.479 | 1.0909 | 68.791 | 6.7456 | .81521 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.733** | **.49262** | **13.149** | **.47924** | **2.1775** | **.31992** | **1.8080** | **4.3821** | **1.5832** |
| Stddev | .188 | .00025 | .019 | .00278 | .0072 | .00362 | .0070 | .0557 | .0006 |
| %RSD | .36400 | .05114 | .14174 | .58044 | .33211 | 1.1302 | .38974 | 1.2714 | .03711 |
| #1 | 51.600 | .49244 | 13.136 | .47727 | 2.1724 | .32248 | 1.8031 | 4.3427 | 1.5836 |
| #2 | 51.866 | .49280 | 13.162 | .48120 | 2.1827 | .31736 | 1.8130 | 4.4215 | 1.5828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4402** | **.98216** | **1.3479** | **1.6204** | **1.8581** | **.57283** | **.69410** | **.45259** |
| Stddev | .0042 | .00188 | .0016 | .0037 | .0125 | .00089 | .00117 | .01017 |
| %RSD | .29283 | .19154 | .12121 | .22526 | .67298 | .15508 | .16790 | 2.2461 |
| #1 | 1.4372 | .98083 | 1.3491 | 1.6230 | 1.8670 | .57345 | .69493 | .45978 |
| #2 | 1.4432 | .98349 | 1.3467 | 1.6178 | 1.8493 | .57220 | .69328 | .44540 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5285.9** | **65576.** | **3432.5** |
| Stddev | 5.2 | 206. | 11.4 |
| %RSD | .09850 | .31444 | .33285 |
| #1 | 5289.6 | 65430. | 3440.6 |
| #2 | 5282.2 | 65722. | 3424.4 |

Sample Name: 280-42043-A-7-C MSD  Acquired: 5/17/2013 17:44:41  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05008** | **85.376** | **.93993** | **.97275** | **2.1705** | **.04253** | **1.8122** | **432.06** | **.09286** |
| Stddev | .00008 | .112 | .00602 | .00289 | .0009 | .00021 | .0080 | 1.06 | .00035 |
| %RSD | .16955 | .13127 | .64020 | .29671 | .04115 | .50007 | .44135 | .24615 | .38129 |
| #1 | .05002 | 85.296 | .94418 | .97479 | 2.1699 | .04268 | 1.8179 | 431.30 | .09311 |
| #2 | .05014 | 85.455 | .93567 | .97070 | 2.1712 | .04238 | 1.8066 | 432.81 | .09261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48892** | **.25991** | **.42559** | **117.07** | **69.942** | **1.1126** | **74.870** | W **10.805** | **.81765** |
| Stddev | .00038 | .00020 | .00168 | .19 | .083 | .0030 | .191 | .050 | .00092 |
| %RSD | .07760 | .07771 | .39587 | .16473 | .11873 | .26801 | .25444 | .46324 | .11228 |
| #1 | .48919 | .26005 | .42678 | 117.21 | 69.883 | 1.1105 | 75.005 | 10.769 | .81830 |
| #2 | .48865 | .25976 | .42440 | 116.93 | 70.000 | 1.1148 | 74.735 | 10.840 | .81700 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.729** | **.50468** | **14.195** | **.48699** | **1.1058** | **.30554** | **1.8422** | **4.7469** | **1.6003** |
| Stddev | .631 | .00119 | .058 | .00467 | .0047 | .00215 | .0065 | .0005 | .0014 |
| %RSD | 1.1959 | .23532 | .40521 | .95997 | .42727 | .70388 | .35041 | .01109 | .08844 |
| #1 | 52.283 | .50552 | 14.236 | .49029 | 1.1092 | .30706 | 1.8376 | 4.7465 | 1.5993 |
| #2 | 53.175 | .50384 | 14.155 | .48368 | 1.1025 | .30402 | 1.8468 | 4.7472 | 1.6013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4450** | **1.0061** | **1.3965** | **1.6374** | **1.8445** | **.58733** | **.75035** | **.46232** |
| Stddev | .0055 | .0002 | .0089 | .0017 | .0080 | .00414 | .00220 | .00572 |
| %RSD | .38201 | .02314 | .63618 | .10087 | .43173 | .70547 | .29312 | 1.2376 |
| #1 | 1.4411 | 1.0063 | 1.4028 | 1.6362 | 1.8501 | .59026 | .75191 | .45828 |
| #2 | 1.4489 | 1.0060 | 1.3902 | 1.6386 | 1.8389 | .58440 | .74880 | .46637 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5334.4** | **66250.** | **3482.9** |
| Stddev | 11.4 | 277. | 2.3 |
| %RSD | .21341 | .41799 | .06555 |
| #1 | 5326.3 | 66446. | 3484.5 |
| #2 | 5342.4 | 66054. | 3481.3 |

Sample Name: pds 280-42043-A-7-A  Acquired: 5/17/2013 17:46:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04335** | **54.130** | **.23728** | **.11834** | **.32835** | **.04336** | **.00371** | **210.81** | **.04988** |
| Stddev | .00054 | .267 | .00112 | .00090 | .00122 | .00031 | .00410 | 1.17 | .00020 |
| %RSD | 1.2482 | .49304 | .47146 | .76104 | .37138 | .71231 | 110.42 | .55331 | .40764 |
| #1 | .04297 | 54.319 | .23807 | .11771 | .32921 | .04358 | .00661 | 211.64 | .04974 |
| #2 | .04373 | 53.941 | .23648 | .11898 | .32749 | .04314 | .00081 | 209.99 | .05003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09016** | **.11273** | **.20953** | **112.14** | **27.904** | **.20697** | **41.940** | **7.2166** | **.04484** |
| Stddev | .00039 | .00015 | .00006 | .84 | .279 | .00033 | .014 | .0118 | .00006 |
| %RSD | .42706 | .13210 | .03071 | .75175 | 1.0005 | .15892 | .03451 | .16283 | .14280 |
| #1 | .08989 | .11262 | .20948 | 112.73 | 28.102 | .20674 | 41.951 | 7.2249 | .04488 |
| #2 | .09043 | .11283 | .20957 | 111.54 | 27.707 | .20720 | 41.930 | 7.2083 | .04479 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.092** | **.13353** | **6.3584** | **.14271** | **1.1164** | **.09264** | **.19459** | **6.2260** | **.08960** |
| Stddev | .714 | .00013 | .0286 | .00210 | .0011 | .00327 | .00568 | .0077 | .00010 |
| %RSD | 3.0921 | .09489 | .45034 | 1.4733 | .09764 | 3.5260 | 2.9202 | .12300 | .11579 |
| #1 | 23.597 | .13344 | 6.3382 | .14122 | 1.1156 | .09033 | .19057 | 6.2206 | .08952 |
| #2 | 22.587 | .13362 | 6.3787 | .14419 | 1.1172 | .09495 | .19860 | 6.2314 | .08967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28435** | **.25918** | **.36811** | **.17581** | **.50353** | **.15282** | **.48148** | **.07278** |
| Stddev | .00111 | .00338 | .00133 | .00213 | .00630 | .00067 | .00070 | .00178 |
| %RSD | .38931 | 1.3038 | .36069 | 1.2094 | 1.2515 | .43780 | .14544 | 2.4425 |
| #1 | .28513 | .25679 | .36717 | .17430 | .50798 | .15235 | .48198 | .07404 |
| #2 | .28357 | .26157 | .36905 | .17731 | .49907 | .15330 | .48099 | .07152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5449.8** | **67910.** | **3543.4** |
| Stddev | 7.2 | 207. | 28.0 |
| %RSD | .13125 | .30451 | .79005 |
| #1 | 5454.9 | 67764. | 3523.6 |
| #2 | 5444.8 | 68057. | 3563.2 |

Sample Name: 280-42043-A-8-A Acquired: 5/17/2013 17:49:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00105** | **66.010** | **.10840** | **.02008** | **.29397** | **.00263** | **.00277** | **144.36** | **.00188** |
| Stddev | .00013 | .544 | .00040 | .00069 | .00253 | .00009 | .00102 | 1.43 | .00002 |
| %RSD | 12.002 | .82439 | .36510 | 3.4275 | .86152 | 3.4398 | 36.732 | .99206 | 1.0667 |
| #1 | .00113 | 65.626 | .10812 | .02057 | .29218 | .00269 | .00349 | 143.35 | .00187 |
| #2 | .00096 | 66.395 | .10868 | .01960 | .29576 | .00256 | .00205 | 145.37 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04466** | **.08856** | **.19526** | **132.36** | **8.4054** | **.11474** | **26.756** | **7.4523** | **.00588** |
| Stddev | .00020 | .00056 | .00031 | .90 | .0901 | .00093 | .047 | .0668 | .00034 |
| %RSD | .44857 | .63587 | .15777 | .67963 | 1.0721 | .80862 | .17716 | .89563 | 5.7670 |
| #1 | .04452 | .08816 | .19548 | 131.72 | 8.3417 | .11408 | 26.722 | 7.4051 | .00564 |
| #2 | .04480 | .08896 | .19504 | 132.99 | 8.4691 | .11539 | 26.789 | 7.4995 | .00612 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0519** | **.09752** | **4.7041** | **.07165** | **1.4677** | **-.00196** | **.00260** | **2.2807** | **.00336** |
| Stddev | .0067 | .00037 | .0114 | .00063 | .0036 | .00023 | .00018 | .0331 | .00112 |
| %RSD | .63476 | .38381 | .24261 | .87539 | .24327 | 11.707 | 6.7355 | 1.4507 | 33.431 |
| #1 | 1.0472 | .09726 | 4.6961 | .07209 | 1.4652 | -.00180 | .00272 | 2.3041 | .00415 |
| #2 | 1.0567 | .09778 | 4.7122 | .07120 | 1.4702 | -.00212 | .00248 | 2.2573 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18972** | **.07057** | **.52133** | **-.00469** | **-.04785** | **.12118** | **.40077** | **.03666** |
| Stddev | .00217 | .00220 | .00135 | .00108 | .00782 | .00027 | .00211 | .00002 |
| %RSD | 1.1436 | 3.1180 | .25964 | 23.094 | 16.342 | .22185 | .52602 | .05810 |
| #1 | .18818 | .06902 | .52228 | -.00546 | -.05338 | .12137 | .40226 | .03668 |
| #2 | .19125 | .07213 | .52037 | -.00392 | -.04232 | .12099 | .39928 | .03665 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5556.5** | **69307.** | **3571.5** |
| Stddev | 10.1 | 29. | 26.5 |
| %RSD | .18114 | .04146 | .74193 |
| #1 | 5563.6 | 69287. | 3590.2 |
| #2 | 5549.4 | 69327. | 3552.7 |

Sample Name: 280-42043-A-9-A Acquired: 5/17/2013 17:51:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00129** | **67.368** | **.04001** | **.01815** | **.27961** | **.00280** | **.00438** | **16.827** | **.00110** |
| Stddev | .00019 | .003 | .00186 | .00096 | .00001 | .00006 | .00000 | .030 | .00002 |
| %RSD | 15.016 | .00467 | 4.6374 | 5.2777 | .00337 | 2.3146 | .03769 | .17832 | 2.0935 |
| #1 | .00143 | 67.366 | .04132 | .01882 | .27960 | .00285 | .00438 | 16.848 | .00108 |
| #2 | .00116 | 67.370 | .03869 | .01747 | .27961 | .00275 | .00438 | 16.806 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04900** | **.08981** | **.27173** | **176.96** | **9.5723** | **.14001** | **29.425** | **8.4630** | **.00507** |
| Stddev | .00004 | .00001 | .00036 | .22 | .0711 | .00087 | .050 | .0023 | .00029 |
| %RSD | .07402 | .00720 | .13381 | .12356 | .74277 | .62235 | .17057 | .02744 | 5.7779 |
| #1 | .04897 | .08982 | .27198 | 177.12 | 9.6226 | .14062 | 29.390 | 8.4646 | .00528 |
| #2 | .04902 | .08981 | .27147 | 176.81 | 9.5220 | .13939 | 29.461 | 8.4613 | .00486 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75553** | **.12474** | **4.7602** | **.03692** | **.04302** | **-.00233** | **.00508** | **2.0967** | **.00420** |
| Stddev | .00235 | .00020 | .0058 | .00064 | .00078 | .00082 | .00104 | .0006 | .00057 |
| %RSD | .31038 | .15835 | .12221 | 1.7334 | 1.8054 | 34.989 | 20.491 | .02711 | 13.501 |
| #1 | .75719 | .12488 | 4.7643 | .03737 | .04357 | -.00291 | .00434 | 2.0971 | .00461 |
| #2 | .75387 | .12460 | 4.7561 | .03646 | .04247 | -.00176 | .00581 | 2.0963 | .00380 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05787** | **.08232** | **.26319** | **-.00480** | **.01700** | **.12138** | **.47686** | **.04244** |
| Stddev | .00003 | .00315 | .00005 | .00179 | .00061 | .00024 | .00256 | .00096 |
| %RSD | .04733 | 3.8281 | .01824 | 37.419 | 3.5833 | .20070 | .53762 | 2.2649 |
| #1 | .05789 | .08010 | .26316 | -.00607 | .01743 | .12156 | .47504 | .04312 |
| #2 | .05785 | .08455 | .26322 | -.00353 | .01657 | .12121 | .47867 | .04176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5923.7** | **73100.** | **3748.4** |
| Stddev | 5.7 | 125. | 3.8 |
| %RSD | .09602 | .17110 | .10216 |
| #1 | 5927.7 | 73189. | 3751.1 |
| #2 | 5919.7 | 73012. | 3745.7 |

Sample Name: 280-42043-A-10-A  Acquired: 5/17/2013 17:54:14  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **92.045** | **.03638** | **.02159** | **.30058** | **.00391** | **.00536** | **68.550** | **.00271** |
| Stddev | .00001 | .589 | .00522 | .00008 | .00268 | .00014 | .00039 | .376 | .00009 |
| %RSD | .91373 | .63977 | 14.359 | .37056 | .89178 | 3.4654 | 7.2702 | .54784 | 3.3966 |
| #1 | .00091 | 92.461 | .03268 | .02153 | .30247 | .00400 | .00509 | 68.815 | .00265 |
| #2 | .00090 | 91.628 | .04007 | .02165 | .29868 | .00381 | .00564 | 68.284 | .00278 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06273** | **.13513** | **.35796** | **172.37** | **9.9113** | **.16399** | **32.698** | **8.1282** | **.01416** |
| Stddev | .00028 | .00002 | .00015 | .60 | .0082 | .00084 | .050 | .0059 | .00019 |
| %RSD | .45193 | .01741 | .04116 | .34706 | .08234 | .51403 | .15301 | .07292 | 1.3494 |
| #1 | .06253 | .13515 | .35786 | 172.79 | 9.9170 | .16459 | 32.662 | 8.1324 | .01402 |
| #2 | .06293 | .13512 | .35807 | 171.95 | 9.9055 | .16340 | 32.733 | 8.1240 | .01429 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1030** | **.14275** | **4.3959** | **.06192** | **.47197** | **-.00327** | **.00798** | **2.0317** | **.00468** |
| Stddev | .0343 | .00065 | .0062 | .00047 | .00236 | .00159 | .00251 | .0083 | .00155 |
| %RSD | 1.1039 | .45483 | .14148 | .76164 | .49978 | 48.601 | 31.413 | .40816 | 33.077 |
| #1 | 3.1272 | .14229 | 4.4003 | .06226 | .47030 | -.00215 | .00621 | 2.0376 | .00578 |
| #2 | 3.0788 | .14321 | 4.3915 | .06159 | .47364 | -.00440 | .00976 | 2.0258 | .00359 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11548** | **.09771** | **.43831** | **-.00541** | **-.03241** | **.14955** | **.48309** | **.03145** |
| Stddev | .00004 | .00009 | .00058 | .00218 | .00988 | .00008 | .00044 | .00240 |
| %RSD | .03083 | .09556 | .13159 | 40.315 | 30.482 | .05400 | .09069 | 7.6310 |
| #1 | .11545 | .09765 | .43872 | -.00695 | -.03940 | .14950 | .48340 | .02975 |
| #2 | .11550 | .09778 | .43790 | -.00387 | -.02543 | .14961 | .48278 | .03314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5792.0** | **71641.** | **3733.8** |
| Stddev | 11.7 | 260. | 33.8 |
| %RSD | .20272 | .36273 | .90604 |
| #1 | 5800.3 | 71824. | 3709.9 |
| #2 | 5783.7 | 71457. | 3757.7 |

Sample Name: 280-42043-A-11-A  Acquired: 5/17/2013 17:56:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00210** | **79.140** | **.03447** | **.01832** | **.29273** | **.00332** | **.00369** | **10.054** | **.00102** |
| Stddev | .00028 | .281 | .00114 | .00003 | .00159 | .00001 | .00201 | .031 | .00007 |
| %RSD | 13.583 | .35549 | 3.3060 | .19045 | .54221 | .41771 | 54.452 | .30498 | 6.5776 |
| #1 | .00190 | 78.941 | .03528 | .01834 | .29161 | .00331 | .00511 | 10.033 | .00098 |
| #2 | .00230 | 79.339 | .03367 | .01829 | .29386 | .00333 | .00227 | 10.076 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06317** | **.11122** | **.44526** | **168.70** | **10.151** | **.15835** | **32.962** | **9.6626** | **.00870** |
| Stddev | .00017 | .00033 | .00034 | .42 | .042 | .00081 | .019 | .0918 | .00023 |
| %RSD | .26376 | .29670 | .07728 | .24739 | .41575 | .51177 | .05760 | .94989 | 2.6335 |
| #1 | .06329 | .11145 | .44502 | 168.40 | 10.121 | .15893 | 32.976 | 9.5977 | .00854 |
| #2 | .06305 | .11098 | .44551 | 168.99 | 10.181 | .15778 | 32.949 | 9.7275 | .00886 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9247** | **.13803** | **4.2653** | **.04930** | **.19498** | **-.00339** | **.00451** | **1.4311** | **.00322** |
| Stddev | .0309 | .00026 | .0118 | .00343 | .00087 | .00072 | .00004 | .0325 | .00011 |
| %RSD | 1.6061 | .18887 | .27667 | 6.9485 | .44536 | 21.340 | .82085 | 2.2739 | 3.5648 |
| #1 | 1.9466 | .13821 | 4.2736 | .04688 | .19559 | -.00288 | .00453 | 1.4541 | .00314 |
| #2 | 1.9028 | .13784 | 4.2569 | .05172 | .19436 | -.00390 | .00448 | 1.4081 | .00330 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03490** | **.08375** | **.36658** | **-.00542** | **.00435** | **.13067** | **.47517** | **.04499** |
| Stddev | .00020 | .00012 | .00035 | .00145 | .00598 | .00088 | .00036 | .00227 |
| %RSD | .58226 | .14052 | .09599 | 26.804 | 137.54 | .67373 | .07635 | 5.0412 |
| #1 | .03504 | .08383 | .36683 | -.00644 | .00857 | .13130 | .47543 | .04338 |
| #2 | .03476 | .08366 | .36633 | -.00439 | .00012 | .13005 | .47491 | .04659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6424.5** | **79777.** | **4069.4** |
| Stddev | 1.9 | 77. | 10.4 |
| %RSD | .02934 | .09707 | .25630 |
| #1 | 6425.8 | 79722. | 4076.8 |
| #2 | 6423.2 | 79832. | 4062.0 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 17:59:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **45.608** | **-.00348** | **.00144** | **.00067** | **-.00016** | **.93877** | **-.00260** | **-.00082** | **.00173** | **.00006** | **-.00345** |
| Stddev | .00101 | .068 | .00217 | .00060 | .00037 | .00012 | .00279 | .00464 | .00007 | .00009 | .00004 | .00015 |
| %RSD | 248.35 | .14942 | 62.351 | 41.811 | 54.556 | 74.901 | .29674 | 178.22 | 8.7315 | 4.9500 | 65.442 | 4.2927 |
| #1 | .00031 | 45.657 | -.00195 | .00187 | .00093 | -.00008 | .94074 | .00068 | -.00077 | .00180 | .00003 | -.00334 |
| #2 | -.00112 | 45.560 | -.00502 | .00102 | .00041 | -.00024 | .93680 | -.00588 | -.00087 | .00167 | .00009 | -.00355 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.305** | **.73681** | **.00028** | **.01199** | **.00069** | **-.00164** | **263.01** | **.00167** | **.00491** | **.00023** | **4.6761** | **.00246** |
| Stddev | .041 | .03735 | .00135 | .00003 | .00053 | .00001 | .09 | .00007 | .00023 | .00051 | .0020 | .00023 |
| %RSD | .10606 | 5.0695 | 480.01 | .25184 | 77.023 | .65422 | .03567 | 4.4250 | 4.5851 | 218.67 | .04244 | 9.2967 |
| #1 | 38.334 | .71040 | -.00067 | .01201 | .00107 | -.00163 | 263.08 | .00162 | .00475 | .00059 | 4.6775 | .00230 |
| #2 | 38.277 | .76323 | .00124 | .01196 | .00031 | -.00165 | 262.95 | .00172 | .00507 | -.00013 | 4.6747 | .00262 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00860** | **.00579** | **-.00086** | **.00017** | **5.0154** | **.00415** | **-.00077** | **9.6533** | **.00029** | **.00382** | **-.07088** |
| Stddev | .00415 | .01071 | .00091 | .00009 | .0125 | .00024 | .00001 | .0276 | .00039 | .00010 | .00270 |
| %RSD | 48.237 | 184.90 | 106.00 | 52.054 | .24934 | 5.7162 | .74719 | .28544 | 132.51 | 2.6694 | 3.8110 |
| #1 | .01153 | .01336 | -.00022 | .00023 | 5.0242 | .00398 | -.00077 | 9.6728 | .00056 | .00389 | -.07279 |
| #2 | .00566 | -.00178 | -.00151 | .00011 | 5.0066 | .00432 | -.00076 | 9.6338 | .00002 | .00375 | -.06897 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5135.0** | **63790.** | **3203.3** |
| Stddev | 35.3 | 416. | 2.0 |
| %RSD | .68689 | .65152 | .06253 |
| #1 | 5160.0 | 63496. | 3201.9 |
| #2 | 5110.1 | 64084. | 3204.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 18:01:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51241** | **.50228** | **.95016** | **.50840** | **.50935** | F **.43893** | **.00778** | **4.6450** | **.49221** | **.50290** | **.47072** | **.46797** |
| Stddev | .00117 | .00309 | .00081 | .00126 | .00224 | .00070 | .00093 | .0003 | .00089 | .00096 | .00075 | .00201 |
| %RSD | .22760 | .61517 | .08569 | .24800 | .44039 | .15865 | 11.905 | .00683 | .18126 | .19058 | .15915 | .42998 |
| #1 | .51159 | .50446 | .94959 | .50929 | .50776 | .43844 | .00843 | 4.6453 | .49284 | .50222 | .47125 | .46655 |
| #2 | .51324 | .50009 | .95074 | .50751 | .51094 | .43942 | .00712 | 4.6448 | .49158 | .50358 | .47019 | .46940 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0430** | **54.923** | **1.0906** | **19.215** | **.49486** | **.45623** | **5.2514** | **.48314** | **.99640** | **.99014** | **-.05892** | **.99146** |
| Stddev | .0045 | .140 | .0024 | .036 | .00129 | .00103 | .0286 | .00136 | .00559 | .00131 | .00373 | .00500 |
| %RSD | .22195 | .25476 | .22211 | .18980 | .26015 | .22628 | .54403 | .28072 | .56067 | .13243 | 6.3367 | .50384 |
| #1 | 2.0462 | 54.824 | 1.0889 | 19.189 | .49395 | .45550 | 5.2716 | .48218 | .99245 | .98922 | -.05628 | .99499 |
| #2 | 2.0398 | 55.022 | 1.0923 | 19.241 | .49577 | .45696 | 5.2312 | .48410 | 1.0003 | .99107 | -.06156 | .98793 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0165** | F **4.3019** | **.91871** | **.52327** | **.00131** | **.49165** | **.95165** | **.03790** | **.47340** | **.48887** | **.46199** |
| Stddev | .0067 | .0207 | .00143 | .00110 | .00011 | .00150 | .00441 | .03695 | .00074 | .00118 | .00287 |
| %RSD | .65528 | .48005 | .15576 | .21103 | 8.1486 | .30598 | .46352 | 97.482 | .15708 | .24205 | .62212 |
| #1 | 1.0212 | 4.3165 | .91972 | .52249 | .00124 | .49058 | .95477 | .06402 | .47287 | .48970 | .46402 |
| #2 | 1.0118 | 4.2873 | .91769 | .52406 | .00139 | .49271 | .94853 | .01178 | .47393 | .48803 | .45995 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5261.3** | **64991.** | **3190.7** |
| Stddev | 3.9 | 27. | 6.6 |
| %RSD | .07362 | .04200 | .20617 |
| #1 | 5264.1 | 64972. | 3195.4 |
| #2 | 5258.6 | 65010. | 3186.1 |

Sample Name: CCB Acquired: 5/17/2013 18:03:45 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.00040** | **-.00127** | **.00050** | W **.00080** | **.00006** | **.00272** | **-.01006** | **-.00026** | **.00016** | **.00013** |
| Stddev | .00071 | .00019 | .00120 | .00046 | .00056 | .00002 | .00059 | .00393 | .00013 | .00026 | .00008 |
| %RSD | 82.539 | 46.082 | 94.315 | 92.170 | 69.631 | 39.180 | 21.610 | 39.054 | 52.205 | 156.35 | 62.843 |
| #1 | .00036 | .00053 | -.00042 | .00083 | .00120 | .00008 | .00230 | -.01284 | -.00016 | .00035 | .00019 |
| #2 | .00137 | .00027 | -.00212 | .00018 | .00041 | .00005 | .00313 | -.00728 | -.00035 | -.00002 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **-.00041** | F **.57367** | **-.00224** | **-.00146** | **-.00001** | **.00024** | F **.16983** | **.00062** | **.00132** | **.00066** |
| Stddev | .00044 | .00239 | .00407 | .00205 | .00205 | .00004 | .00007 | .01187 | .00035 | .00289 | .00021 |
| %RSD | 40.769 | 575.88 | .70961 | 91.447 | 140.86 | 440.38 | 26.934 | 6.9899 | 56.368 | 219.83 | 32.396 |
| #1 | -.00139 | -.00210 | .57079 | -.00079 | -.00001 | .00002 | .00020 | .17823 | .00087 | -.00073 | .00051 |
| #2 | -.00077 | .00127 | .57655 | -.00369 | -.00291 | -.00003 | .00029 | .16144 | .00037 | .00336 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | | | .10000 | | | |
| Low Limit | | | -.25000 | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06002** | W **.00362** | **.00161** | **.02006** | **-.00090** | **-.00011** | **.00067** | **.00012** | **.00015** | **.04731** | **.00075** |
| Stddev | .00212 | .00128 | .00063 | .00012 | .00052 | .00004 | .00022 | .00015 | .00029 | .01721 | .00021 |
| %RSD | 3.5342 | 35.384 | 39.240 | .61324 | 57.656 | 36.317 | 33.414 | 124.94 | 189.26 | 36.390 | 28.672 |
| #1 | -.05852 | .00453 | .00206 | .02015 | -.00126 | -.00008 | .00051 | .00001 | -.00005 | .05948 | .00090 |
| #2 | -.06152 | .00271 | .00116 | .01997 | -.00053 | -.00014 | .00083 | .00023 | .00035 | .03513 | .00060 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00248** | **.00057** |
| Stddev | .00025 | .00039 |
| %RSD | 10.090 | 68.380 |
| #1 | .00265 | .00029 |
| #2 | .00230 | .00084 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5344.3** | **66294.** | **3291.4** |
| Stddev | 7.6 | 180. | 8.2 |
| %RSD | .14185 | .27080 | .25028 |
| #1 | 5338.9 | 66167. | 3285.6 |
| #2 | 5349.7 | 66421. | 3297.2 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 18:06:14 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01110** | F **.16648** | **.01368** | **.10290** | **.01064** | W **.00073** | **.10602** | F **.29964** | **.00491** | **.01094** | **.00974** |
| Stddev | .00042 | .00151 | .00249 | .00105 | .00051 | .00015 | .00041 | .00357 | .00011 | .00016 | .00016 |
| %RSD | 3.8088 | .90632 | 18.241 | 1.0207 | 4.7937 | 21.021 | .38595 | 1.1912 | 2.1647 | 1.4269 | 1.6218 |
| #1 | .01080 | .16754 | .01544 | .10216 | .01028 | .00062 | .10573 | .29712 | .00498 | .01083 | .00963 |
| #2 | .01140 | .16541 | .01191 | .10365 | .01100 | .00084 | .10631 | .30217 | .00483 | .01105 | .00985 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | .00100 | | .20000 | | | |
| Range | | 30.000% | | | | -20.000% | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01318** | F **.19411** | F **3.9295** | W **.00792** | **.23156** | F **.01692** | **.01816** | W **1.2460** | **.03993** | **2.9754** | **.00898** |
| Stddev | .00007 | .00318 | .0342 | .00151 | .00433 | .00007 | .00009 | .0127 | .00004 | .0171 | .00257 |
| %RSD | .50953 | 1.6368 | .86905 | 19.018 | 1.8689 | .42669 | .51365 | 1.0176 | .10123 | .57426 | 28.647 |
| #1 | .01313 | .19186 | 3.9054 | .00898 | .23462 | .01697 | .01823 | 1.2370 | .03990 | 2.9633 | .01080 |
| #2 | .01322 | .19635 | 3.9537 | .00685 | .22850 | .01687 | .01809 | 1.2550 | .03995 | 2.9875 | .00716 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | .01000 | | 1.0000 | | | |
| Range | | 30.000% | 30.000% | -20.000% | | 30.000% | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05689** | W **.01237** | **.01686** | **.43451** | **.09156** | **.01064** | **.01568** | **.01012** | **.01504** | **.05137** | **.00958** |
| Stddev | .00242 | .00150 | .00101 | .00245 | .00071 | .00012 | .00051 | .00071 | .00051 | .01104 | .00003 |
| %RSD | 4.2566 | 12.095 | 6.0182 | .56438 | .77037 | 1.1545 | 3.2213 | 7.0633 | 3.3779 | 21.481 | .35712 |
| #1 | -.05860 | .01342 | .01614 | .43625 | .09106 | .01056 | .01604 | .00961 | .01540 | .05918 | .00956 |
| #2 | -.05517 | .01131 | .01758 | .43278 | .09205 | .01073 | .01532 | .01062 | .01468 | .04357 | .00961 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | 20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02405** | **.01462** |
| Stddev | .00024 | .00378 |
| %RSD | 1.0035 | 25.845 |
| #1 | .02388 | .01195 |
| #2 | .02422 | .01730 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5314.4** | **66213.** | **3242.4** |
| Stddev | 16.8 | 120. | 7.8 |
| %RSD | .31606 | .18101 | .24071 |
| #1 | 5326.2 | 66129. | 3247.9 |
| #2 | 5302.5 | 66298. | 3236.8 |

Sample Name: 280-42043-A-12-A  Acquired: 5/17/2013 18:08:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00204** | **70.295** | **.04116** | **.02202** | **.27991** | **.00322** | **.00353** | **32.045** | **.00130** |
| Stddev | .00039 | .500 | .00113 | .00012 | .00177 | .00010 | .00115 | .187 | .00002 |
| %RSD | 19.312 | .71171 | 2.7421 | .53711 | .63090 | 3.0196 | 32.556 | .58351 | 1.2735 |
| #1 | .00176 | 70.649 | .04196 | .02194 | .28116 | .00328 | .00434 | 32.177 | .00129 |
| #2 | .00231 | 69.941 | .04036 | .02210 | .27866 | .00315 | .00272 | 31.913 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05978** | **.09473** | **.26582** | **172.81** | **10.469** | **.15375** | **29.135** | **9.5736** | **.00424** |
| Stddev | .00019 | .00061 | .00035 | .52 | .081 | .00157 | .052 | .0234 | .00015 |
| %RSD | .30979 | .64142 | .13097 | .29845 | .76916 | 1.0220 | .17718 | .24488 | 3.5517 |
| #1 | .05965 | .09430 | .26607 | 173.17 | 10.412 | .15487 | 29.171 | 9.5570 | .00414 |
| #2 | .05991 | .09516 | .26558 | 172.45 | 10.526 | .15264 | 29.098 | 9.5902 | .00435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1058** | **.13813** | **4.3926** | **.05373** | **.20891** | **-.00442** | **.00407** | **1.9872** | **.00319** |
| Stddev | .0147 | .00052 | .0275 | .00152 | .00772 | .00113 | .00019 | .0236 | .00033 |
| %RSD | 1.3330 | .37320 | .62695 | 2.8331 | 3.6964 | 25.477 | 4.7679 | 1.1899 | 10.438 |
| #1 | 1.0954 | .13777 | 4.3731 | .05480 | .20345 | -.00522 | .00420 | 1.9705 | .00343 |
| #2 | 1.1162 | .13849 | 4.4120 | .05265 | .21437 | -.00362 | .00393 | 2.0039 | .00296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07369** | **.08495** | **.29632** | **-.00621** | **-.01407** | **.12263** | **.48281** | **.04285** |
| Stddev | .00014 | .00399 | .00664 | .00210 | .00078 | .00013 | .00025 | .00127 |
| %RSD | .19427 | 4.6988 | 2.2396 | 33.825 | 5.5463 | .10680 | .05189 | 2.9564 |
| #1 | .07359 | .08212 | .29163 | -.00473 | -.01352 | .12272 | .48263 | .04375 |
| #2 | .07379 | .08777 | .30101 | -.00770 | -.01462 | .12253 | .48298 | .04196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5880.0** | **72388.** | **3710.6** |
| Stddev | 1.2 | 35. | 22.2 |
| %RSD | .02044 | .04795 | .59817 |
| #1 | 5880.8 | 72363. | 3694.9 |
| #2 | 5879.1 | 72412. | 3726.3 |

Sample Name: 280-42043-A-13-A  Acquired: 5/17/2013 18:11:05  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00249** | **100.98** | **.04923** | **.02069** | **.49369** | **.00457** | **.00417** | **101.69** | **.00482** |
| Stddev | .00037 | .87 | .00236 | .00035 | .00435 | .00016 | .00007 | .81 | .00007 |
| %RSD | 14.742 | .85976 | 4.7952 | 1.7007 | .88191 | 3.5665 | 1.5943 | .79992 | 1.5446 |
| #1 | .00275 | 101.59 | .04756 | .02044 | .49677 | .00469 | .00413 | 102.26 | .00487 |
| #2 | .00223 | 100.36 | .05090 | .02094 | .49061 | .00446 | .00422 | 101.11 | .00477 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07889** | **.12000** | **.34259** | **201.80** | **10.617** | **.18197** | **37.916** | W **11.045** | **.00194** |
| Stddev | .00021 | .00029 | .00193 | .60 | .124 | .00141 | .230 | .081 | .00023 |
| %RSD | .26735 | .24575 | .56376 | .29692 | 1.1655 | .77517 | .60787 | .73364 | 11.627 |
| #1 | .07904 | .12020 | .34123 | 201.37 | 10.705 | .18097 | 37.753 | 10.988 | .00210 |
| #2 | .07874 | .11979 | .34396 | 202.22 | 10.530 | .18296 | 38.079 | 11.102 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9711** | **.16625** | **5.7255** | **.25007** | **.68547** | **-.00230** | **.00459** | **1.8297** | **.00595** |
| Stddev | .0206 | .00003 | .0056 | .00086 | .00112 | .00067 | .00557 | .0319 | .00039 |
| %RSD | 1.0439 | .02001 | .09745 | .34494 | .16334 | 29.151 | 121.43 | 1.7436 | 6.5690 |
| #1 | 1.9856 | .16627 | 5.7216 | .24946 | .68467 | -.00277 | .00853 | 1.8071 | .00623 |
| #2 | 1.9565 | .16622 | 5.7295 | .25068 | .68626 | -.00182 | .00065 | 1.8522 | .00567 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18182** | **.10246** | **.52168** | **-.00706** | **-.03213** | **.18659** | **.95138** | **.03713** |
| Stddev | .00111 | .00165 | .00957 | .00068 | .00840 | .00075 | .00404 | .00370 |
| %RSD | .60964 | 1.6109 | 1.8353 | 9.6502 | 26.135 | .40435 | .42446 | 9.9530 |
| #1 | .18260 | .10362 | .51491 | -.00754 | -.02619 | .18606 | .94852 | .03452 |
| #2 | .18103 | .10129 | .52845 | -.00658 | -.03807 | .18713 | .95423 | .03974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5863.2** | **72738.** | **3709.0** |
| Stddev | 26.8 | 457. | 32.2 |
| %RSD | .45671 | .62765 | .86841 |
| #1 | 5844.3 | 73061. | 3686.2 |
| #2 | 5882.2 | 72415. | 3731.8 |

Sample Name: 280-42043-A-14-A  Acquired: 5/17/2013 18:13:30  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00185** | **70.750** | **.03162** | **.01794** | **.30502** | **.00298** | **.00278** | **25.169** | **.00203** |
| Stddev | .00001 | .117 | .00100 | .00008 | .00046 | .00005 | .00330 | .047 | .00005 |
| %RSD | .65632 | .16480 | 3.1571 | .44690 | .15185 | 1.8007 | 118.69 | .18837 | 2.5499 |
| #1 | .00186 | 70.833 | .03092 | .01788 | .30535 | .00294 | .00045 | 25.203 | .00206 |
| #2 | .00184 | 70.668 | .03233 | .01800 | .30469 | .00302 | .00512 | 25.136 | .00199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04957** | **.08187** | **.21661** | **134.90** | **8.5271** | **.12021** | **25.390** | **7.6570** | **.00371** |
| Stddev | .00005 | .00009 | .00000 | .35 | .0640 | .00147 | .028 | .0619 | .00017 |
| %RSD | .09093 | .10993 | .00139 | .25867 | .75087 | 1.2210 | .11036 | .80846 | 4.5877 |
| #1 | .04954 | .08194 | .21660 | 135.15 | 8.5724 | .11917 | 25.371 | 7.7007 | .00359 |
| #2 | .04960 | .08181 | .21661 | 134.65 | 8.4819 | .12125 | 25.410 | 7.6132 | .00383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5845** | **.10544** | **4.0951** | **.08326** | **.28542** | **-.00141** | **.00348** | **1.7788** | **.00455** |
| Stddev | .0018 | .00025 | .0085 | .00176 | .00101 | .00069 | .00292 | .0200 | .00047 |
| %RSD | .07018 | .24001 | .20857 | 2.1190 | .35237 | 48.888 | 83.818 | 1.1255 | 10.290 |
| #1 | 2.5858 | .10527 | 4.1011 | .08451 | .28614 | -.00190 | .00142 | 1.7929 | .00422 |
| #2 | 2.5832 | .10562 | 4.0890 | .08201 | .28471 | -.00093 | .00554 | 1.7646 | .00488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06053** | **.09029** | **.53242** | **-.00506** | **-.01343** | **.12322** | **.47361** | **.03529** |
| Stddev | .00001 | .00098 | .00039 | .00119 | .01094 | .00003 | .00039 | .00198 |
| %RSD | .01886 | 1.0864 | .07406 | 23.564 | 81.447 | .02660 | .08229 | 5.6064 |
| #1 | .06052 | .09098 | .53214 | -.00591 | -.00569 | .12320 | .47388 | .03669 |
| #2 | .06054 | .08960 | .53270 | -.00422 | -.02116 | .12324 | .47333 | .03389 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5854.8** | **72709.** | **3722.2** |
| Stddev | 12.1 | 276. | 7.5 |
| %RSD | .20659 | .37899 | .20025 |
| #1 | 5863.4 | 72514. | 3717.0 |
| #2 | 5846.3 | 72903. | 3727.5 |

Sample Name: 280-42043-A-15-A  Acquired: 5/17/2013 18:15:55  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00200** | **57.215** | **.03610** | **.02091** | **.32322** | **.00327** | **.00561** | **30.138** | **.00129** |
| Stddev | .00051 | .188 | .00290 | .00026 | .00205 | .00016 | .00305 | .129 | .00003 |
| %RSD | 25.728 | .32824 | 8.0217 | 1.2604 | .63465 | 4.9711 | 54.272 | .42886 | 2.2719 |
| #1 | .00163 | 57.082 | .03405 | .02072 | .32177 | .00316 | .00346 | 30.047 | .00127 |
| #2 | .00236 | 57.348 | .03814 | .02109 | .32467 | .00339 | .00776 | 30.230 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04918** | **.07802** | **.21318** | **159.99** | **10.448** | **.10809** | **24.917** | W **11.516** | **.00289** |
| Stddev | .00028 | .00012 | .00049 | .64 | .049 | .00075 | .016 | .090 | .00006 |
| %RSD | .57719 | .15289 | .22789 | .40167 | .46973 | .69432 | .06508 | .77948 | 1.9351 |
| #1 | .04938 | .07810 | .21284 | 159.54 | 10.413 | .10862 | 24.905 | 11.579 | .00293 |
| #2 | .04898 | .07794 | .21353 | 160.45 | 10.482 | .10756 | 24.928 | 11.452 | .00285 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9498** | **.11361** | **5.3426** | **.04267** | **.10338** | **-.00220** | **.00254** | **1.2335** | **.00288** |
| Stddev | .0081 | .00063 | .0119 | .00044 | .00263 | .00116 | .00027 | .0015 | .00065 |
| %RSD | .41321 | .55674 | .22212 | 1.0322 | 2.5471 | 52.480 | 10.680 | .12484 | 22.659 |
| #1 | 1.9441 | .11406 | 5.3510 | .04236 | .10152 | -.00302 | .00273 | 1.2346 | .00242 |
| #2 | 1.9555 | .11316 | 5.3342 | .04298 | .10525 | -.00139 | .00235 | 1.2324 | .00334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05475** | **.08361** | **.57858** | **-.00854** | W **-.07608** | **.11677** | **1.0203** | **.04522** |
| Stddev | .00031 | .00133 | .00041 | .00064 | .00126 | .00105 | .0007 | .00037 |
| %RSD | .57451 | 1.5855 | .07165 | 7.4770 | 1.6582 | .89637 | .06886 | .81658 |
| #1 | .05453 | .08455 | .57829 | -.00899 | -.07697 | .11751 | 1.0208 | .04548 |
| #2 | .05497 | .08267 | .57888 | -.00809 | -.07518 | .11603 | 1.0199 | .04495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6507.0** | **80879.** | **4149.1** |
| Stddev | 19.6 | 163. | 33.0 |
| %RSD | .30161 | .20166 | .79626 |
| #1 | 6520.8 | 80994. | 4172.5 |
| #2 | 6493.1 | 80763. | 4125.7 |

Sample Name: 280-42043-A-16-A Acquired: 5/17/2013 18:18:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **81.889** | **.02987** | **.03304** | **.26925** | **.00306** | **.00148** | W **726.73** | **.00192** |
| Stddev | .00042 | .111 | .00029 | .00022 | .00068 | .00004 | .00305 | 4.83 | .00012 |
| %RSD | 49.062 | .13519 | .97709 | .67257 | .25424 | 1.3646 | 205.83 | .66484 | 6.1525 |
| #1 | .00117 | 81.967 | .03007 | .03320 | .26974 | .00303 | .00364 | 723.31 | .00184 |
| #2 | .00057 | 81.810 | .02966 | .03288 | .26877 | .00309 | -.00068 | 730.14 | .00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04999** | **.10583** | **.32428** | **123.49** | **10.471** | **.15001** | **50.323** | **4.8683** | **.00274** |
| Stddev | .00090 | .00043 | .00024 | .30 | .046 | .00308 | .052 | .0237 | .00000 |
| %RSD | 1.8005 | .40430 | .07531 | .24677 | .44257 | 2.0504 | .10302 | .48666 | .15475 |
| #1 | .04936 | .10552 | .32445 | 123.71 | 10.438 | .14784 | 50.359 | 4.8851 | .00273 |
| #2 | .05063 | .10613 | .32411 | 123.28 | 10.503 | .15219 | 50.286 | 4.8516 | .00274 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7363** | **.14184** | **4.4142** | **.12575** | **1.8843** | **.01017** | **.00174** | **1.5210** | **.00455** |
| Stddev | .0077 | .00021 | .0092 | .00216 | .0066 | .00020 | .00026 | .0445 | .00038 |
| %RSD | .28107 | .14983 | .20866 | 1.7167 | .34798 | 1.9762 | 15.013 | 2.9239 | 8.3839 |
| #1 | 2.7308 | .14169 | 4.4076 | .12422 | 1.8797 | .01002 | .00155 | 1.5525 | .00482 |
| #2 | 2.7417 | .14199 | 4.4207 | .12728 | 1.8890 | .01031 | .00192 | 1.4896 | .00428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76302** | **.06928** | **.49735** | **-.00362** | **-.04845** | **.14522** | **.49824** | **.02053** |
| Stddev | .00045 | .00070 | .00082 | .00105 | .00070 | .00078 | .00069 | .00155 |
| %RSD | .05842 | 1.0086 | .16545 | 29.058 | 1.4534 | .53953 | .13935 | 7.5295 |
| #1 | .76334 | .06978 | .49793 | -.00287 | -.04895 | .14578 | .49774 | .01944 |
| #2 | .76271 | .06879 | .49677 | -.00436 | -.04796 | .14467 | .49873 | .02162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5170.3** | **64098.** | **3375.4** |
| Stddev | 17.7 | 24. | 1.2 |
| %RSD | .34208 | .03766 | .03587 |
| #1 | 5157.8 | 64081. | 3374.6 |
| #2 | 5182.8 | 64115. | 3376.3 |

Sample Name: 280-42043-A-17-A  Acquired: 5/17/2013 18:21:25  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00204** | **93.181** | **.03566** | **.02230** | **.28319** | **.00400** | **.00342** | **9.9206** | **.00129** |
| Stddev | .00010 | .757 | .00030 | .00012 | .00324 | .00005 | .00027 | .0851 | .00001 |
| %RSD | 4.7138 | .81218 | .83323 | .56009 | 1.1458 | 1.3532 | 7.8072 | .85751 | .89019 |
| #1 | .00210 | 93.716 | .03587 | .02221 | .28548 | .00404 | .00323 | 9.9808 | .00130 |
| #2 | .00197 | 92.646 | .03545 | .02239 | .28089 | .00396 | .00361 | 9.8605 | .00129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06501** | **.12193** | **.41412** | **179.92** | **10.792** | **.17456** | **36.726** | **9.3199** | **.00771** |
| Stddev | .00008 | .00009 | .00181 | .45 | .114 | .00329 | .153 | .0229 | .00007 |
| %RSD | .11906 | .07290 | .43779 | .24849 | 1.0602 | 1.8827 | .41654 | .24578 | .92063 |
| #1 | .06507 | .12199 | .41540 | 180.24 | 10.873 | .17688 | 36.834 | 9.3037 | .00776 |
| #2 | .06496 | .12186 | .41284 | 179.60 | 10.711 | .17224 | 36.618 | 9.3361 | .00766 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0753** | **.14948** | **4.0015** | **.05346** | **.13601** | **-.00473** | **.00523** | **1.6146** | **.00418** |
| Stddev | .0353 | .00061 | .0032 | .00011 | .00449 | .00143 | .00304 | .0181 | .00114 |
| %RSD | 1.1493 | .41128 | .07886 | .20686 | 3.3033 | 30.177 | 58.119 | 1.1244 | 27.364 |
| #1 | 3.1003 | .14992 | 3.9993 | .05338 | .13919 | -.00574 | .00308 | 1.6017 | .00499 |
| #2 | 3.0503 | .14905 | 4.0037 | .05354 | .13283 | -.00372 | .00738 | 1.6274 | .00337 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02874** | **.09389** | **.41030** | **-.00532** | W **-.05963** | **.14812** | **.47464** | **.04595** |
| Stddev | .00013 | .00065 | .00122 | .00082 | .02966 | .00024 | .00113 | .00208 |
| %RSD | .45065 | .69054 | .29852 | 15.338 | 49.732 | .16538 | .23715 | 4.5278 |
| #1 | .02865 | .09435 | .41117 | -.00474 | -.08060 | .14829 | .47544 | .04742 |
| #2 | .02883 | .09343 | .40944 | -.00589 | -.03866 | .14794 | .47385 | .04448 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6399.3** | **79576.** | **4079.8** |
| Stddev | 4.2 | 336. | 39.8 |
| %RSD | .06608 | .42162 | .97524 |
| #1 | 6396.3 | 79338. | 4051.7 |
| #2 | 6402.3 | 79813. | 4107.9 |

Sample Name: 280-42043-A-18-A  Acquired: 5/17/2013 18:23:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00159** | **77.942** | **.03797** | **.01937** | **.33926** | **.00339** | **.00554** | **19.348** | **.00138** |
| Stddev | .00019 | .085 | .00492 | .00058 | .00041 | .00003 | .00264 | .001 | .00023 |
| %RSD | 11.725 | .10901 | 12.960 | 3.0063 | .11961 | .99977 | 47.609 | .00348 | 16.891 |
| #1 | .00173 | 77.882 | .03449 | .01978 | .33955 | .00336 | .00367 | 19.348 | .00154 |
| #2 | .00146 | 78.002 | .04145 | .01895 | .33898 | .00341 | .00740 | 19.348 | .00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05966** | **.09058** | **.34656** | **184.12** | **9.9497** | **.16559** | **33.457** | W **13.378** | **.00272** |
| Stddev | .00016 | .00016 | .00143 | .59 | .0380 | .00226 | .079 | .068 | .00017 |
| %RSD | .26013 | .17942 | .41343 | .31874 | .38174 | 1.3659 | .23549 | .50967 | 6.2874 |
| #1 | .05977 | .09047 | .34758 | 184.53 | 9.9766 | .16400 | 33.512 | 13.330 | .00284 |
| #2 | .05955 | .09070 | .34555 | 183.70 | 9.9229 | .16719 | 33.401 | 13.427 | .00260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2220** | **.14208** | **4.8588** | **.05013** | **.31183** | **-.00312** | **.00291** | **2.2604** | **.00427** |
| Stddev | .0186 | .00008 | .0291 | .00084 | .00445 | .00109 | .00454 | .0396 | .00042 |
| %RSD | .83602 | .05961 | .59874 | 1.6796 | 1.4276 | 35.019 | 155.96 | 1.7530 | 9.8411 |
| #1 | 2.2089 | .14202 | 4.8382 | .04953 | .30868 | -.00235 | .00613 | 2.2884 | .00456 |
| #2 | 2.2351 | .14214 | 4.8793 | .05073 | .31498 | -.00390 | -.00030 | 2.2323 | .00397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05640** | **.10164** | **.55356** | **-.00857** | **-.03591** | **.12559** | **.60446** | **.04612** |
| Stddev | .00010 | .00079 | .00537 | .00080 | .02988 | .00022 | .00230 | .00063 |
| %RSD | .18272 | .77723 | .97064 | 9.3742 | 83.194 | .17369 | .38085 | 1.3658 |
| #1 | .05647 | .10219 | .54976 | -.00913 | -.05703 | .12574 | .60609 | .04656 |
| #2 | .05632 | .10108 | .55736 | -.00800 | -.01479 | .12544 | .60283 | .04567 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6036.6** | **74150.** | **3763.9** |
| Stddev | 35.5 | 59. | .9 |
| %RSD | .58801 | .07964 | .02461 |
| #1 | 6011.5 | 74108. | 3763.2 |
| #2 | 6061.7 | 74192. | 3764.5 |

Sample Name: 280-42043-A-19-A  Acquired: 5/17/2013 18:26:14  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00242** | **65.579** | **.04175** | **.01694** | **.31652** | **.00262** | **.00085** | **27.551** | **.00101** |
| Stddev | .00007 | .717 | .00215 | .00021 | .00340 | .00005 | .00112 | .267 | .00013 |
| %RSD | 2.9388 | 1.0938 | 5.1530 | 1.2594 | 1.0730 | 1.7944 | 132.46 | .97000 | 13.224 |
| #1 | .00237 | 66.086 | .04327 | .01709 | .31892 | .00266 | .00005 | 27.740 | .00091 |
| #2 | .00247 | 65.072 | .04023 | .01679 | .31412 | .00259 | .00164 | 27.363 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05247** | **.08369** | **.24697** | **171.41** | **8.9984** | **.14053** | **29.725** | W **12.400** | **.00436** |
| Stddev | .00017 | .00014 | .00029 | .08 | .0180 | .00016 | .014 | .054 | .00019 |
| %RSD | .32856 | .16270 | .11671 | .04929 | .19947 | .11076 | .04741 | .43736 | 4.3894 |
| #1 | .05260 | .08359 | .24717 | 171.47 | 9.0111 | .14042 | 29.735 | 12.438 | .00423 |
| #2 | .05235 | .08379 | .24677 | 171.35 | 8.9857 | .14064 | 29.715 | 12.361 | .00450 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90265** | **.12587** | **4.4707** | **.04057** | **.14721** | **-.00188** | **-.00012** | **2.5119** | **.00431** |
| Stddev | .01591 | .00071 | .0027 | .00093 | .00828 | .00066 | .00213 | .0151 | .00005 |
| %RSD | 1.7627 | .56717 | .06006 | 2.2915 | 5.6265 | 34.865 | 1796.4 | .59944 | 1.1169 |
| #1 | .89140 | .12638 | 4.4726 | .04123 | .15307 | -.00142 | -.00163 | 2.5012 | .00428 |
| #2 | .91390 | .12537 | 4.4688 | .03991 | .14136 | -.00234 | .00139 | 2.5225 | .00435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07119** | **.08649** | **.32401** | **-.00882** | **-.04699** | **.11527** | **.45015** | **.04590** |
| Stddev | .00003 | .00233 | .00191 | .00137 | .01254 | .00002 | .00026 | .00226 |
| %RSD | .04461 | 2.6925 | .58861 | 15.565 | 26.698 | .01539 | .05869 | 4.9257 |
| #1 | .07117 | .08814 | .32536 | -.00979 | -.05586 | .11528 | .45034 | .04750 |
| #2 | .07122 | .08485 | .32266 | -.00785 | -.03812 | .11525 | .44996 | .04430 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6005.4** | **74292.** | **3775.5** |
| Stddev | 2.6 | 68. | 35.1 |
| %RSD | .04399 | .09159 | .93061 |
| #1 | 6003.5 | 74244. | 3750.6 |
| #2 | 6007.2 | 74340. | 3800.3 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 18:28:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | **45.577** | **-.00165** | **-.00001** | **.00086** | **-.00027** | **.94405** | **.00939** | **-.00058** | **.00203** | **-.00003** | **-.00400** |
| Stddev | .00026 | .322 | .00060 | .00071 | .00033 | .00005 | .00400 | .00745 | .00005 | .00009 | .00013 | .00050 |
| %RSD | 49.288 | .70678 | 36.420 | 6012.9 | 38.291 | 17.814 | .42362 | 79.333 | 8.4860 | 4.5315 | 385.99 | 12.396 |
| #1 | -.00070 | 45.349 | -.00207 | -.00051 | .00062 | -.00031 | .94123 | .01466 | -.00054 | .00210 | .00006 | -.00435 |
| #2 | -.00034 | 45.805 | -.00122 | .00049 | .00109 | -.00024 | .94688 | .00412 | -.00061 | .00197 | -.00013 | -.00365 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.102** | **.59267** | **-.00557** | **.01849** | **.00214** | **-.00169** | **266.58** | **.00171** | **.00637** | **.00092** | **4.7275** | **.00200** |
| Stddev | .175 | .01529 | .00264 | .00351 | .00044 | .00007 | 1.88 | .00017 | .00088 | .00155 | .0230 | .00185 |
| %RSD | .45970 | 2.5802 | 47.396 | 18.968 | 20.658 | 4.3748 | .70365 | 9.8999 | 13.879 | 168.14 | .48687 | 92.266 |
| #1 | 37.978 | .60348 | -.00744 | .01601 | .00245 | -.00164 | 265.25 | .00182 | .00699 | -.00017 | 4.7438 | .00070 |
| #2 | 38.225 | .58185 | -.00370 | .02097 | .00183 | -.00174 | 267.91 | .00159 | .00574 | .00201 | 4.7113 | .00331 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00882** | **.01871** | **-.00079** | **.00032** | **5.0492** | **.00486** | **-.00069** | **9.6909** | **.00024** | **.00434** | **-.06897** |
| Stddev | .00219 | .00893 | .00029 | .00005 | .0103 | .00024 | .00038 | .0813 | .00023 | .00010 | .00190 |
| %RSD | 24.858 | 47.721 | 36.387 | 16.225 | .20444 | 4.8988 | 55.610 | .83897 | 96.759 | 2.3104 | 2.7578 |
| #1 | .01037 | .02502 | -.00100 | .00029 | 5.0565 | .00470 | -.00096 | 9.6334 | .00008 | .00427 | -.06762 |
| #2 | .00727 | .01239 | -.00059 | .00036 | 5.0419 | .00503 | -.00042 | 9.7484 | .00041 | .00441 | -.07031 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5222.2** | **64679.** | **3241.1** |
| Stddev | 14.9 | 29. | 34.3 |
| %RSD | .28620 | .04509 | 1.0589 |
| #1 | 5211.6 | 64658. | 3265.3 |
| #2 | 5232.8 | 64700. | 3216.8 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 18:31:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50913** | F **.56258** | **.95093** | **.50754** | **.50256** | F **.43044** | **.00522** | **4.6081** | **.49094** | **.50027** | **.46993** | **.46537** |
| Stddev | .00042 | .06350 | .00075 | .00129 | .00144 | .00092 | .00068 | .0182 | .00106 | .00047 | .00022 | .00048 |
| %RSD | .08280 | 11.287 | .07860 | .25356 | .28554 | .21448 | 13.008 | .39457 | .21535 | .09358 | .04757 | .10228 |
| #1 | .50883 | .51768 | .95040 | .50845 | .50154 | .42978 | .00474 | 4.5952 | .49168 | .50060 | .47009 | .46503 |
| #2 | .50943 | .60748 | .95145 | .50663 | .50357 | .43109 | .00570 | 4.6209 | .49019 | .49994 | .46978 | .46571 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | .50000 | | | | | | |
| Range | | 10.000% | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0323** | **54.451** | **1.0816** | **19.085** | **.49232** | **.45429** | **5.1941** | **.48123** | **1.0051** | **.98850** | **-.06014** | **.98822** |
| Stddev | .0011 | .041 | .0033 | .007 | .00021 | .00053 | .0478 | .00014 | .0003 | .00203 | .00212 | .00522 |
| %RSD | .05498 | .07574 | .30257 | .03880 | .04347 | .11618 | .92084 | .02991 | .02549 | .20566 | 3.5209 | .52845 |
| #1 | 2.0331 | 54.422 | 1.0792 | 19.091 | .49217 | .45392 | 5.2279 | .48113 | 1.0052 | .98994 | -.05865 | .99191 |
| #2 | 2.0315 | 54.481 | 1.0839 | 19.080 | .49247 | .45466 | 5.1603 | .48133 | 1.0049 | .98706 | -.06164 | .98453 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0137** | F **4.2460** | **.91593** | **.51735** | **.00328** | **.48861** | **.94352** | **-.01089** | **.46991** | **.48677** | **.46140** |
| Stddev | .0047 | .0058 | .00240 | .00062 | .00206 | .00136 | .00394 | .05112 | .00012 | .00122 | .00130 |
| %RSD | .46765 | .13759 | .26202 | .11990 | 62.841 | .27899 | .41724 | 469.36 | .02576 | .25052 | .28068 |
| #1 | 1.0170 | 4.2501 | .91763 | .51692 | .00474 | .48764 | .94630 | -.04703 | .46982 | .48591 | .46231 |
| #2 | 1.0103 | 4.2419 | .91424 | .51779 | .00182 | .48957 | .94074 | .02525 | .47000 | .48764 | .46048 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5267.7** | **66025.** | **3275.3** |
| Stddev | 7.6 | 112. | 4.8 |
| %RSD | .14511 | .17007 | .14550 |
| #1 | 5273.1 | 65945. | 3271.9 |
| #2 | 5262.3 | 66104. | 3278.7 |

Sample Name: CCB Acquired: 5/17/2013 18:33:20 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00123** | F **.08276** | **-.00009** | **-.00065** | W **.00094** | **.00008** | **.00145** | F **.14412** | **-.00023** | **.00040** | **.00010** |
| Stddev | .00108 | .00214 | .00456 | .00026 | .00001 | .00002 | .00213 | .00983 | .00017 | .00005 | .00011 |
| %RSD | 87.475 | 2.5804 | 4841.1 | 40.636 | 1.0552 | 29.438 | 147.07 | 6.8222 | 72.535 | 13.407 | 107.54 |
| #1 | .00047 | .08427 | .00313 | -.00046 | .00093 | .00007 | .00296 | .15107 | -.00035 | .00044 | .00017 |
| #2 | .00200 | .08125 | -.00332 | -.00084 | .00095 | .00010 | -.00006 | .13717 | -.00011 | .00036 | .00002 |
| Check ? | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | .03600 | | | .00058 | | | .06900 | | | |
| Low Limit | -.00093 | -.03600 | | | -.00058 | | | -.06900 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00101** | F **.17750** | F **.47411** | W **-.00468** | F **.03900** | F **.01085** | **.00012** | F **.18128** | **.00069** | **.00628** | **.00122** |
| Stddev | .00065 | .00231 | .01264 | .00028 | .00023 | .00008 | .00031 | .01348 | .00004 | .00033 | .00001 |
| %RSD | 64.054 | 1.2989 | 2.6667 | 5.9629 | .58862 | .73317 | 264.43 | 7.4352 | 5.9999 | 5.1992 | 1.0065 |
| #1 | -.00147 | .17913 | .46517 | -.00488 | .03916 | .01090 | -.00010 | .19081 | .00072 | .00605 | .00123 |
| #2 | -.00055 | .17587 | .48305 | -.00448 | .03884 | .01079 | .00034 | .17174 | .00066 | .00652 | .00122 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | .25000 | .00261 | .02140 | .00051 | | .10000 | | | |
| Low Limit | | -.04400 | -.25000 | -.00261 | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05673** | **.00074** | **-.00013** | **.00143** | **-.00084** | **.00023** | **.00205** | W **.00072** | **-.00042** | **.01578** | **.00066** |
| Stddev | .00053 | .00038 | .00205 | .01570 | .00005 | .00006 | .00178 | .00034 | .00013 | .03958 | .00011 |
| %RSD | .93593 | 51.432 | 1574.3 | 1096.4 | 5.6039 | 25.144 | 86.866 | 47.368 | 31.451 | 250.79 | 16.092 |
| #1 | -.05711 | .00047 | .00132 | .01253 | -.00081 | .00019 | .00330 | .00096 | -.00051 | -.01220 | .00073 |
| #2 | -.05636 | .00101 | -.00158 | -.00967 | -.00087 | .00027 | .00079 | .00048 | -.00032 | .04377 | .00058 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00060 | | | |
| Low Limit | | | | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00294** | **-.00063** |
| Stddev | .00042 | .00206 |
| %RSD | 14.459 | 328.76 |
| #1 | .00264 | .00083 |
| #2 | .00324 | -.00208 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5355.5** | **66156.** | **3261.9** |
| Stddev | 16.6 | 105. | 17.0 |
| %RSD | .30917 | .15927 | .52243 |
| #1 | 5367.2 | 66230. | 3274.0 |
| #2 | 5343.8 | 66081. | 3249.9 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 18:35:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.01211** | F **.16862** | **.01536** | **.10329** | **.01123** | **.00085** | **.10578** | F **.29545** | **.00503** | **.01095** | **.00976** |
| Stddev | .00114 | .00262 | .00021 | .00017 | .00014 | .00013 | .00282 | .00332 | .00011 | .00017 | .00006 |
| %RSD | 9.4532 | 1.5525 | 1.3717 | .16135 | 1.2174 | 15.159 | 2.6618 | 1.1252 | 2.2028 | 1.5098 | .59904 |
| #1 | .01130 | .17047 | .01550 | .10341 | .01114 | .00094 | .10777 | .29310 | .00511 | .01107 | .00972 |
| #2 | .01292 | .16677 | .01521 | .10317 | .01133 | .00076 | .10379 | .29781 | .00495 | .01083 | .00981 |
| Check ? | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | .01000 | .10000 | | | | | | .20000 | | | |
| Range | 20.000% | 30.000% | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01230** | F **.21836** | W **3.8551** | W **.00736** | **.23080** | F **.01873** | **.01849** | W **1.2486** | **.04063** | **3.0244** | **.00873** |
| Stddev | .00006 | .00291 | .0193 | .00041 | .00013 | .00010 | .00009 | .0048 | .00020 | .0042 | .00259 |
| %RSD | .50080 | 1.3326 | .49985 | 5.5168 | .05490 | .55042 | .48462 | .38440 | .48821 | .13739 | 29.666 |
| #1 | .01235 | .22042 | 3.8414 | .00765 | .23089 | .01880 | .01855 | 1.2452 | .04049 | 3.0214 | .00690 |
| #2 | .01226 | .21630 | 3.8687 | .00707 | .23071 | .01866 | .01843 | 1.2520 | .04077 | 3.0273 | .01057 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | .01000 | | 1.0000 | | | |
| Range | | 30.000% | 20.000% | -20.000% | | 30.000% | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05807** | **.01167** | **.01405** | **.45600** | **.09307** | **.01082** | W **.01819** | **.01038** | **.01532** | **.05243** | **.01017** |
| Stddev | .00093 | .00160 | .00213 | .01709 | .00093 | .00001 | .00390 | .00060 | .00038 | .00121 | .00070 |
| %RSD | 1.5940 | 13.690 | 15.122 | 3.7474 | .99538 | .08159 | 21.470 | 5.8013 | 2.4971 | 2.3148 | 6.8729 |
| #1 | -.05873 | .01054 | .01255 | .46808 | .09242 | .01083 | .02095 | .00996 | .01559 | .05329 | .00968 |
| #2 | -.05742 | .01280 | .01556 | .44391 | .09373 | .01082 | .01542 | .01081 | .01505 | .05157 | .01067 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .01500 | | | | |
| Range | | | | | | | 20.000% | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02402** | **.01491** |
| Stddev | .00018 | .00188 |
| %RSD | .75616 | 12.629 |
| #1 | .02389 | .01358 |
| #2 | .02415 | .01624 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5373.2** | **66594.** | **3266.1** |
| Stddev | 8.0 | 1. | 8.6 |
| %RSD | .14907 | .00133 | .26291 |
| #1 | 5378.9 | 66593. | 3272.2 |
| #2 | 5367.6 | 66594. | 3260.1 |

Sample Name: MB 280-173668/1-A Acquired: 5/17/2013 18:38:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | W **.05614** | **-.00026** | F **.02392** | **.00049** | **-.00001** | **.00007** | W **.10099** | **-.00004** |
| Stddev | .00018 | .00120 | .00010 | .00011 | .00004 | .00003 | .00159 | .00257 | .00015 |
| %RSD | 15.004 | 2.1425 | 37.652 | .45592 | 7.2594 | 238.40 | 2359.0 | 2.5483 | 341.63 |
| #1 | .00106 | .05699 | -.00019 | .02400 | .00052 | .00001 | .00119 | .10281 | -.00015 |
| #2 | .00131 | .05529 | -.00033 | .02384 | .00047 | -.00004 | -.00106 | .09917 | .00006 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | .05000 | | .01000 | | | | .10000 | |
| Low Limit | | -.05000 | | -.01000 | | | | -.10000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00022** | **-.00013** | W **.09986** | **.56386** | **-.00282** | **.02647** | W **.00586** | **.00022** |
| Stddev | .00017 | .00001 | .00060 | .00537 | .00152 | .00045 | .00151 | .00016 | .00011 |
| %RSD | 220.26 | 4.1025 | 446.81 | 5.3780 | .26954 | 16.099 | 5.7202 | 2.8078 | 49.820 |
| #1 | .00019 | .00021 | -.00056 | .10365 | .56279 | -.00250 | .02754 | .00597 | .00014 |
| #2 | -.00004 | .00022 | .00029 | .09606 | .56494 | -.00314 | .02540 | .00574 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | .03000 | | | | .00500 | |
| Low Limit | | | | -.05000 | | | | -.00500 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48068** | **.00045** | F **.10917** | **.00228** | **-.02346** | **.00118** | **.00492** | W **.06429** | **.00908** |
| Stddev | .01855 | .00009 | .00053 | .00162 | .00079 | .00233 | .00139 | .00575 | .00033 |
| %RSD | 3.8584 | 19.829 | .48634 | 71.023 | 3.3740 | 196.78 | 28.259 | 8.9457 | 3.6262 |
| #1 | .46756 | .00039 | .10880 | .00342 | -.02402 | -.00046 | .00591 | .06022 | .00932 |
| #2 | .49379 | .00052 | .10955 | .00113 | -.02290 | .00283 | .00394 | .06835 | .00885 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00265** | **.00130** | **-.00077** | **.00828** | **.00087** | **.00369** | **-.00016** |
| Stddev | .00016 | .00234 | .00059 | .00087 | .00456 | .00005 | .00049 | .00330 |
| %RSD | 67.263 | 88.145 | 45.391 | 113.68 | 55.031 | 5.8209 | 13.151 | 2095.2 |
| #1 | .00012 | .00100 | .00172 | -.00138 | .01151 | .00091 | .00404 | -.00249 |
| #2 | .00035 | .00430 | .00088 | -.00015 | .00506 | .00084 | .00335 | .00218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5388.4** | **66463.** | **3287.0** |
| Stddev | 1.9 | . | 38.8 |
| %RSD | .03489 | .00042 | 1.1813 |
| #1 | 5387.1 | 66463. | 3314.4 |
| #2 | 5389.8 | 66463. | 3259.5 |

Sample Name: LCS 280-173668/2-A Acquired: 5/17/2013 18:40:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05215** | **1.9771** | **.91827** | F **1.1330** | **1.9863** | **.04272** | **1.9119** | **44.061** | **.09682** |
| Stddev | .00031 | .0045 | .00118 | .0004 | .0133 | .00039 | .0007 | .315 | .00001 |
| %RSD | .59878 | .22921 | .12815 | .03596 | .67037 | .91922 | .03718 | .71552 | .01273 |
| #1 | .05193 | 1.9803 | .91744 | 1.1327 | 1.9957 | .04300 | 1.9124 | 44.284 | .09683 |
| #2 | .05237 | 1.9739 | .91911 | 1.1333 | 1.9769 | .04245 | 1.9114 | 43.838 | .09681 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48081** | **.18348** | **.22975** | F **.86285** | **53.659** | **1.0610** | **46.028** | **.47738** | **.88888** |
| Stddev | .00030 | .00015 | .00045 | .00633 | .472 | .0079 | .019 | .00019 | .00180 |
| %RSD | .06140 | .08221 | .19635 | .73400 | .87937 | .74505 | .04120 | .03977 | .20257 |
| #1 | .48102 | .18337 | .22943 | .86732 | 53.992 | 1.0666 | 46.042 | .47752 | .88761 |
| #2 | .48060 | .18359 | .23006 | .85837 | 53.325 | 1.0554 | 46.015 | .47725 | .89016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.2000 | | | | | |
| Low Limit | | | | .87000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.119** | **.45990** | **10.007** | **.47309** | **-.02790** | **.48182** | **1.9582** | **2.0400** | **1.7740** |
| Stddev | .604 | .00073 | .002 | .00020 | .00252 | .00103 | .0020 | .0311 | .0057 |
| %RSD | 1.0958 | .15786 | .01922 | .04169 | 9.0185 | .21409 | .10003 | 1.5252 | .32291 |
| #1 | 54.692 | .45939 | 10.008 | .47323 | -.02612 | .48255 | 1.9595 | 2.0620 | 1.7700 |
| #2 | 55.546 | .46041 | 10.005 | .47295 | -.02967 | .48109 | 1.9568 | 2.0180 | 1.7781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0110** | **1.0117** | **.95289** | **1.8332** | **1.9899** | **.45978** | **.46614** | **.43493** |
| Stddev | .0064 | .0002 | .00017 | .0047 | .0189 | .00074 | .00010 | .00375 |
| %RSD | .63349 | .01880 | .01796 | .25566 | .94895 | .16171 | .02068 | .86322 |
| #1 | 1.0155 | 1.0118 | .95277 | 1.8299 | 2.0032 | .45926 | .46621 | .43228 |
| #2 | 1.0065 | 1.0115 | .95301 | 1.8365 | 1.9765 | .46031 | .46607 | .43759 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5187.7** | **65267.** | **3262.7** |
| Stddev | 10.6 | 240. | 21.4 |
| %RSD | .20449 | .36802 | .65641 |
| #1 | 5195.2 | 65097. | 3247.5 |
| #2 | 5180.2 | 65437. | 3277.8 |

Sample Name: 280-42046-A-1-A  Acquired: 5/17/2013 18:42:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **112.15** | **.04374** | **.02456** | **.51232** | **.00428** | **.00553** | **13.009** | **.00266** |
| Stddev | .00043 | .73 | .00079 | .00012 | .00375 | .00015 | .00053 | .098 | .00013 |
| %RSD | 25.518 | .65175 | 1.7974 | .49556 | .73242 | 3.5816 | 9.6493 | .75259 | 4.9561 |
| #1 | .00137 | 111.63 | .04429 | .02447 | .50967 | .00417 | .00590 | 12.939 | .00276 |
| #2 | .00197 | 112.67 | .04318 | .02464 | .51497 | .00439 | .00515 | 13.078 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06382** | **.12632** | **.28490** | **181.85** | **9.9574** | **.17932** | **32.959** | W **11.233** | **.00353** |
| Stddev | .00022 | .00018 | .00033 | .40 | .0153 | .00094 | .044 | .077 | .00032 |
| %RSD | .33895 | .13882 | .11513 | .22078 | .15350 | .52466 | .13470 | .68589 | 9.0108 |
| #1 | .06398 | .12645 | .28513 | 181.57 | 9.9466 | .17866 | 32.990 | 11.179 | .00376 |
| #2 | .06367 | .12620 | .28467 | 182.14 | 9.9682 | .17999 | 32.927 | 11.288 | .00331 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61999** | **.15493** | **5.7423** | **.15543** | **.55775** | **-.00256** | **.00889** | **1.6051** | **.00756** |
| Stddev | .01322 | .00008 | .0008 | .00332 | .00264 | .00055 | .00176 | .0431 | .00022 |
| %RSD | 2.1318 | .05222 | .01479 | 2.1332 | .47313 | 21.257 | 19.774 | 2.6832 | 2.8675 |
| #1 | .61064 | .15499 | 5.7417 | .15309 | .55588 | -.00295 | .00764 | 1.5747 | .00741 |
| #2 | .62933 | .15488 | 5.7429 | .15777 | .55961 | -.00218 | .01013 | 1.6356 | .00771 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06430** | **.09490** | **.67502** | **-.00946** | **-.02577** | **.18005** | **.74931** | **.02053** |
| Stddev | .00008 | .00138 | .00077 | .00109 | .01439 | .00016 | .00044 | .00375 |
| %RSD | .12705 | 1.4513 | .11395 | 11.527 | 55.818 | .08656 | .05935 | 18.278 |
| #1 | .06424 | .09393 | .67556 | -.00869 | -.01560 | .17994 | .74963 | .02318 |
| #2 | .06436 | .09587 | .67448 | -.01023 | -.03595 | .18016 | .74900 | .01787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5644.3** | **69732.** | **3572.5** |
| Stddev | 2.5 | 6. | 17.9 |
| %RSD | .04512 | .00876 | .50077 |
| #1 | 5642.5 | 69728. | 3585.1 |
| #2 | 5646.1 | 69737. | 3559.8 |

Sample Name: sd 280-42046-A-1-A@5 Acquired: 5/17/2013 18:45:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **24.300** | **.00991** | **.00515** | **.11039** | **.00085** | **.00100** | **2.8142** | **.00051** |
| Stddev | .00032 | .252 | .00056 | .00012 | .00067 | .00003 | .00096 | .0302 | .00008 |
| %RSD | 30.682 | 1.0368 | 5.6546 | 2.2963 | .60717 | 3.1327 | 96.155 | 1.0730 | 15.060 |
| #1 | .00082 | 24.122 | .01031 | .00523 | .10992 | .00083 | .00032 | 2.7929 | .00056 |
| #2 | .00127 | 24.478 | .00951 | .00506 | .11087 | .00087 | .00168 | 2.8356 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01389** | **.02702** | **.05819** | **35.837** | **2.4999** | **.03813** | **7.0354** | **2.4495** | **.00085** |
| Stddev | .00010 | .00002 | .00050 | .189 | .0640 | .00025 | .0009 | .0062 | .00017 |
| %RSD | .69953 | .07235 | .85748 | .52784 | 2.5582 | .66861 | .01250 | .25455 | 20.623 |
| #1 | .01383 | .02700 | .05854 | 35.703 | 2.5451 | .03795 | 7.0360 | 2.4539 | .00097 |
| #2 | .01396 | .02703 | .05784 | 35.971 | 2.4547 | .03831 | 7.0347 | 2.4451 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23180** | **.03371** | **1.2093** | **.03499** | **.06943** | **.00142** | **-.00126** | **.39453** | **.00053** |
| Stddev | .00269 | .00046 | .0076 | .00115 | .00010 | .00147 | .00109 | .00513 | .00020 |
| %RSD | 1.1601 | 1.3657 | .62995 | 3.2785 | .13801 | 103.80 | 86.784 | 1.2996 | 37.142 |
| #1 | .23370 | .03404 | 1.2039 | .03580 | .06950 | .00038 | -.00049 | .39816 | .00067 |
| #2 | .22990 | .03338 | 1.2147 | .03418 | .06936 | .00246 | -.00203 | .39091 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01376** | **.02304** | **.14296** | **-.00086** | **.01952** | **.03822** | **.16443** | **.00941** |
| Stddev | .00036 | .00167 | .00006 | .00114 | .01395 | .00061 | .00004 | .00315 |
| %RSD | 2.6518 | 7.2521 | .04163 | 133.48 | 71.464 | 1.6012 | .02134 | 33.500 |
| #1 | .01350 | .02422 | .14292 | -.00166 | .00966 | .03865 | .16445 | .01164 |
| #2 | .01402 | .02186 | .14300 | -.00005 | .02939 | .03779 | .16440 | .00718 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5419.0** | **67067.** | **3360.0** |
| Stddev | 5.3 | 311. | 29.8 |
| %RSD | .09730 | .46368 | .88729 |
| #1 | 5422.7 | 66847. | 3381.0 |
| #2 | 5415.3 | 67287. | 3338.9 |

Sample Name: 280-42046-A-1-B MS  Acquired: 5/17/2013 18:47:46  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04976** | **159.21** | **.89081** | **.96925** | **2.5159** | **.04406** | **1.7986** | **56.160** | **.09325** |
| Stddev | .00092 | .33 | .00233 | .00004 | .0054 | .00004 | .0005 | .125 | .00000 |
| %RSD | 1.8495 | .20434 | .26186 | .00461 | .21446 | .10206 | .02966 | .22335 | .00276 |
| #1 | .04911 | 159.44 | .88916 | .96928 | 2.5197 | .04409 | 1.7982 | 56.248 | .09324 |
| #2 | .05041 | 158.98 | .89246 | .96921 | 2.5121 | .04403 | 1.7990 | 56.071 | .09325 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50489** | **.33269** | **.47187** | **188.61** | **78.622** | **1.1913** | **78.858** | W **10.344** | **.81072** |
| Stddev | .00015 | .00038 | .00046 | .10 | .052 | .0003 | .138 | .006 | .00197 |
| %RSD | .02994 | .11452 | .09708 | .05118 | .06559 | .02183 | .17522 | .05872 | .24262 |
| #1 | .50500 | .33296 | .47219 | 188.68 | 78.658 | 1.1911 | 78.956 | 10.340 | .81211 |
| #2 | .50478 | .33242 | .47155 | 188.55 | 78.585 | 1.1915 | 78.760 | 10.348 | .80933 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.492** | **.56713** | **14.883** | **.61208** | **.78250** | **.20748** | **1.8041** | **4.2983** | **1.5204** |
| Stddev | .955 | .00101 | .023 | .00120 | .00069 | .00445 | .0008 | .0627 | .0044 |
| %RSD | 1.8196 | .17868 | .15404 | .19661 | .08840 | 2.1433 | .04723 | 1.4586 | .29013 |
| #1 | 53.167 | .56785 | 14.899 | .61123 | .78201 | .21062 | 1.8047 | 4.3426 | 1.5235 |
| #2 | 51.817 | .56641 | 14.867 | .61293 | .78299 | .20433 | 1.8035 | 4.2540 | 1.5173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0206** | **.88863** | **2.2568** | **1.6543** | **1.8585** | **.71095** | **1.0985** | **.22137** |
| Stddev | .0005 | .00035 | .0014 | .0083 | .0463 | .00030 | .0034 | .00534 |
| %RSD | .04950 | .03884 | .06413 | .50015 | 2.4932 | .04249 | .31087 | 2.4136 |
| #1 | 1.0209 | .88888 | 2.2578 | 1.6602 | 1.8912 | .71117 | 1.1009 | .22514 |
| #2 | 1.0202 | .88839 | 2.2557 | 1.6485 | 1.8257 | .71074 | 1.0961 | .21759 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5569.6** | **68760.** | **3538.3** |
| Stddev | 16.9 | 413. | 16.6 |
| %RSD | .30366 | .59999 | .46831 |
| #1 | 5557.7 | 68468. | 3550.0 |
| #2 | 5581.6 | 69052. | 3526.6 |

Sample Name: 280-42046-A-1-C MSD  Acquired: 5/17/2013 18:50:05  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04984** | **161.07** | **.89229** | **.97351** | **2.5266** | **.04416** | **1.7977** | **58.188** | **.09358** |
| Stddev | .00106 | .22 | .00142 | .00261 | .0095 | .00001 | .0005 | .066 | .00020 |
| %RSD | 2.1253 | .13536 | .15918 | .26847 | .37465 | .01990 | .02819 | .11378 | .20956 |
| #1 | .04909 | 160.91 | .89329 | .97166 | 2.5199 | .04416 | 1.7973 | 58.141 | .09344 |
| #2 | .05059 | 161.22 | .89128 | .97536 | 2.5333 | .04415 | 1.7980 | 58.234 | .09372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50467** | **.34322** | **.47553** | **180.77** | **80.053** | **1.1910** | **78.840** | **9.8258** | **.81481** |
| Stddev | .00185 | .00072 | .00040 | .19 | .047 | .0003 | .108 | .0107 | .00097 |
| %RSD | .36635 | .20920 | .08492 | .10249 | .05929 | .02568 | .13740 | .10918 | .11853 |
| #1 | .50336 | .34271 | .47581 | 180.64 | 80.020 | 1.1912 | 78.917 | 9.8334 | .81413 |
| #2 | .50598 | .34373 | .47524 | 180.90 | 80.087 | 1.1908 | 78.764 | 9.8182 | .81549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.879** | **.56610** | **15.035** | **.63985** | **.83015** | **.20017** | **1.8140** | **3.9831** | **1.5282** |
| Stddev | .238 | .00029 | .001 | .00148 | .00508 | .00198 | .0057 | .0499 | .0057 |
| %RSD | .44943 | .05166 | .00386 | .23073 | .61180 | .98697 | .31230 | 1.2525 | .37142 |
| #1 | 52.710 | .56631 | 15.035 | .63881 | .82656 | .19877 | 1.8100 | 4.0183 | 1.5242 |
| #2 | 53.047 | .56590 | 15.036 | .64090 | .83374 | .20157 | 1.8180 | 3.9478 | 1.5322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0274** | **.87994** | **2.1533** | **1.6567** | **1.8119** | **.71842** | **1.1203** | **.20810** |
| Stddev | .0014 | .00160 | .0002 | .0039 | .0214 | .00355 | .0030 | .00222 |
| %RSD | .13898 | .18181 | .01063 | .23370 | 1.1787 | .49420 | .26762 | 1.0664 |
| #1 | 1.0264 | .87881 | 2.1534 | 1.6540 | 1.7968 | .72093 | 1.1224 | .20653 |
| #2 | 1.0284 | .88108 | 2.1531 | 1.6594 | 1.8270 | .71591 | 1.1182 | .20967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5586.6** | **69232.** | **3546.5** |
| Stddev | 3.5 | 67. | 1.4 |
| %RSD | .06311 | .09607 | .03932 |
| #1 | 5589.1 | 69185. | 3547.4 |
| #2 | 5584.1 | 69279. | 3545.5 |

Sample Name: pds 280-42046-A-1-A  Acquired: 5/17/2013 18:52:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04363** | **112.12** | **.22498** | **.11898** | **.60810** | **.04617** | **.00342** | **30.536** | **.05180** |
| Stddev | .00059 | .15 | .00175 | .00186 | .00112 | .00031 | .00164 | .052 | .00008 |
| %RSD | 1.3537 | .13706 | .77651 | 1.5659 | .18448 | .67602 | 47.806 | .16881 | .15051 |
| #1 | .04322 | 112.23 | .22621 | .12029 | .60890 | .04639 | .00226 | 30.573 | .05186 |
| #2 | .04405 | 112.01 | .22374 | .11766 | .60731 | .04595 | .00458 | 30.500 | .05175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11128** | **.17098** | **.32761** | **179.14** | **31.408** | **.28436** | **51.348** | W **10.820** | **.04541** |
| Stddev | .00103 | .00104 | .00058 | .31 | .089 | .00412 | .130 | .192 | .00041 |
| %RSD | .92623 | .60858 | .17629 | .17419 | .28325 | 1.4482 | .25235 | 1.7789 | .91152 |
| #1 | .11201 | .17171 | .32801 | 179.36 | 31.471 | .28727 | 51.440 | 10.956 | .04570 |
| #2 | .11055 | .17024 | .32720 | 178.92 | 31.345 | .28145 | 51.257 | 10.683 | .04512 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.844** | **.19827** | **7.6092** | **.24792** | **.55548** | **.08639** | **.19968** | **5.6566** | **.09192** |
| Stddev | .346 | .00114 | .0328 | .00066 | .00541 | .00027 | .00060 | .0637 | .00125 |
| %RSD | 1.4514 | .57310 | .43172 | .26713 | .97456 | .31175 | .30069 | 1.1260 | 1.3616 |
| #1 | 24.089 | .19908 | 7.6324 | .24839 | .55931 | .08658 | .20010 | 5.7016 | .09281 |
| #2 | 23.600 | .19747 | 7.5859 | .24745 | .55165 | .08620 | .19925 | 5.6116 | .09104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11611** | **.30149** | **.72296** | **.17827** | **.47974** | **.22463** | **.92402** | **.05719** |
| Stddev | .00033 | .00285 | .00528 | .00043 | .00633 | .00075 | .00378 | .00024 |
| %RSD | .28817 | .94601 | .72984 | .24182 | 1.3199 | .33260 | .40941 | .41912 |
| #1 | .11587 | .30351 | .71922 | .17796 | .47526 | .22515 | .92670 | .05702 |
| #2 | .11635 | .29947 | .72669 | .17857 | .48421 | .22410 | .92135 | .05736 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5588.6** | **69084.** | **3508.3** |
| Stddev | 6.3 | 327. | 8.4 |
| %RSD | .11299 | .47269 | .24012 |
| #1 | 5593.0 | 68853. | 3502.3 |
| #2 | 5584.1 | 69315. | 3514.2 |

Sample Name: 280-42046-A-2-A  Acquired: 5/17/2013 18:54:46  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **74.511** | **.05075** | **.01905** | **.33353** | **.00363** | **.00601** | **10.214** | **.00116** |
| Stddev | .00089 | .306 | .00151 | .00035 | .00303 | .00001 | .00192 | .038 | .00010 |
| %RSD | 66.241 | .41034 | 2.9827 | 1.8238 | .90854 | .16475 | 31.849 | .37533 | 8.5104 |
| #1 | .00198 | 74.295 | .04968 | .01930 | .33139 | .00363 | .00737 | 10.187 | .00109 |
| #2 | .00072 | 74.727 | .05182 | .01881 | .33568 | .00363 | .00466 | 10.241 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05527** | **.08311** | **.23806** | **167.19** | **8.6726** | **.13505** | **23.985** | **9.7676** | **.00284** |
| Stddev | .00025 | .00005 | .00106 | .48 | .0185 | .00264 | .081 | .0884 | .00026 |
| %RSD | .45504 | .06108 | .44539 | .28457 | .21348 | 1.9539 | .33807 | .90546 | 9.1610 |
| #1 | .05545 | .08315 | .23881 | 166.86 | 8.6857 | .13691 | 24.042 | 9.7051 | .00266 |
| #2 | .05509 | .08308 | .23731 | 167.53 | 8.6595 | .13318 | 23.928 | 9.8301 | .00303 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76077** | **.11854** | **4.6696** | **.05239** | **.14526** | **-.00259** | **.00743** | **1.5687** | **.00554** |
| Stddev | .00567 | .00077 | .0205 | .00162 | .00424 | .00179 | .00279 | .0349 | .00076 |
| %RSD | .74521 | .64823 | .44008 | 3.0916 | 2.9224 | 69.036 | 37.612 | 2.2227 | 13.680 |
| #1 | .75676 | .11908 | 4.6841 | .05353 | .14826 | -.00385 | .00545 | 1.5441 | .00500 |
| #2 | .76478 | .11800 | 4.6551 | .05124 | .14226 | -.00132 | .00941 | 1.5934 | .00607 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02859** | **.12019** | **.78361** | **-.00653** | **-.02890** | **.12387** | **.38514** | **.02497** |
| Stddev | .00009 | .00158 | .00320 | .00108 | .00335 | .00085 | .00183 | .00220 |
| %RSD | .32190 | 1.3114 | .40793 | 16.552 | 11.583 | .68921 | .47486 | 8.8127 |
| #1 | .02853 | .11908 | .78587 | -.00729 | -.02653 | .12447 | .38643 | .02653 |
| #2 | .02866 | .12131 | .78135 | -.00576 | -.03126 | .12326 | .38385 | .02342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6378.8** | **78854.** | **3972.5** |
| Stddev | 1.6 | 292. | 8.8 |
| %RSD | .02445 | .37092 | .22113 |
| #1 | 6379.9 | 78648. | 3978.8 |
| #2 | 6377.7 | 79061. | 3966.3 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 18:57:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **45.547** | **-.00121** | **.00158** | **.00068** | **-.00014** | **.94865** | **.00359** | **-.00092** | **.00182** | **.00000** | **-.00340** |
| Stddev | .00008 | .017 | .00029 | .00045 | .00060 | .00002 | .00215 | .00319 | .00012 | .00002 | .00008 | .00006 |
| %RSD | 15.879 | .03735 | 23.955 | 28.208 | 87.874 | 14.124 | .22612 | 88.959 | 13.265 | .94612 | 2164.6 | 1.6250 |
| #1 | -.00042 | 45.559 | -.00101 | .00127 | .00110 | -.00013 | .94713 | .00133 | -.00084 | .00183 | -.00005 | -.00336 |
| #2 | -.00053 | 45.535 | -.00142 | .00190 | .00026 | -.00016 | .95016 | .00585 | -.00101 | .00181 | .00006 | -.00344 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.014** | **.58548** | **-.00487** | **.01453** | **.00039** | **-.00135** | **270.92** | **.00179** | **.00703** | **.00088** | **4.7685** | **.00298** |
| Stddev | .010 | .11472 | .00417 | .00303 | .00007 | .00034 | .33 | .00009 | .00075 | .00005 | .0057 | .00238 |
| %RSD | .02613 | 19.595 | 85.721 | 20.843 | 17.103 | 25.470 | .12084 | 5.0743 | 10.685 | 5.3453 | .12068 | 79.838 |
| #1 | 38.007 | .50436 | -.00192 | .01667 | .00044 | -.00111 | 270.69 | .00186 | .00650 | .00085 | 4.7645 | .00130 |
| #2 | 38.021 | .66661 | -.00782 | .01239 | .00034 | -.00160 | 271.16 | .00173 | .00756 | .00091 | 4.7726 | .00467 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01110** | **-.00046** | **-.00031** | **.00030** | **5.0189** | **.00426** | **-.00078** | **9.7298** | **-.00022** | **.00497** | **-.06575** |
| Stddev | .00104 | .01353 | .00031 | .00000 | .0082 | .00030 | .00071 | .0974 | .00017 | .00067 | .00140 |
| %RSD | 9.3305 | 2942.0 | 100.10 | 1.4494 | .16383 | 7.0667 | 90.187 | 1.0009 | 75.573 | 13.551 | 2.1269 |
| #1 | .01183 | -.01003 | -.00053 | .00030 | 5.0247 | .00447 | -.00028 | 9.7987 | -.00034 | .00545 | -.06476 |
| #2 | .01037 | .00911 | -.00009 | .00030 | 5.0131 | .00405 | -.00128 | 9.6609 | -.00010 | .00450 | -.06673 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5174.6** | **64612.** | **3175.9** |
| Stddev | 13.7 | 165. | 9.1 |
| %RSD | .26552 | .25574 | .28737 |
| #1 | 5164.9 | 64729. | 3182.3 |
| #2 | 5184.3 | 64496. | 3169.4 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 18:59:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50861** | F **.58735** | **.94872** | **.50837** | **.50428** | F **.42871** | **.00731** | **4.6247** | **.49112** | **.50060** | **.47055** | **.46765** |
| Stddev | .00167 | .00173 | .00116 | .00039 | .00076 | .00087 | .00005 | .0110 | .00017 | .00081 | .00100 | .00130 |
| %RSD | .32810 | .29439 | .12210 | .07740 | .15012 | .20355 | .66939 | .23682 | .03363 | .16199 | .21345 | .27831 |
| #1 | .50743 | .58858 | .94790 | .50865 | .50482 | .42932 | .00735 | 4.6325 | .49123 | .50003 | .47126 | .46673 |
| #2 | .50979 | .58613 | .94954 | .50809 | .50375 | .42809 | .00728 | 4.6170 | .49100 | .50118 | .46984 | .46857 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | .50000 | | | | | | |
| Range | | 10.000% | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1487** | **54.766** | **1.0869** | **19.165** | **.49927** | **.45698** | **5.2149** | **.48268** | **1.0083** | **.98352** | **-.06303** | **.98605** |
| Stddev | .0069 | .137 | .0058 | .012 | .00096 | .00112 | .0182 | .00064 | .0027 | .00207 | .00129 | .00378 |
| %RSD | .32118 | .25003 | .53134 | .06075 | .19166 | .24499 | .34993 | .13280 | .26483 | .21022 | 2.0477 | .38355 |
| #1 | 2.1536 | 54.863 | 1.0910 | 19.157 | .49859 | .45777 | 5.2278 | .48313 | 1.0102 | .98206 | -.06212 | .98873 |
| #2 | 2.1438 | 54.669 | 1.0828 | 19.173 | .49995 | .45619 | 5.2020 | .48223 | 1.0064 | .98499 | -.06394 | .98338 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0114** | F **4.2381** | **.91719** | **.51679** | **.00443** | **.48909** | **.94330** | **.03490** | **.47169** | **.48729** | **.45764** |
| Stddev | .0016 | .0516 | .00284 | .00150 | .00106 | .00077 | .00096 | .00162 | .00078 | .00144 | .00047 |
| %RSD | .15412 | 1.2169 | .30915 | .29009 | 23.926 | .15652 | .10180 | 4.6383 | .16572 | .29583 | .10214 |
| #1 | 1.0103 | 4.2016 | .91920 | .51785 | .00518 | .48855 | .94398 | .03605 | .47224 | .48831 | .45797 |
| #2 | 1.0126 | 4.2746 | .91519 | .51573 | .00368 | .48963 | .94262 | .03376 | .47114 | .48627 | .45731 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5350.5** | **66246.** | **3245.2** |
| Stddev | 11.2 | 545. | 21.5 |
| %RSD | .20871 | .82204 | .66278 |
| #1 | 5342.6 | 65861. | 3230.0 |
| #2 | 5358.4 | 66631. | 3260.4 |

Sample Name: CCB Acquired: 5/17/2013 19:01:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | F **.07631** | **.00201** | **.00006** | W **.00089** | **.00001** | **.00488** | **.02225** | **-.00001** | **.00015** | **.00041** |
| Stddev | .00026 | .00333 | .00222 | .00007 | .00056 | .00010 | .00230 | .00047 | .00004 | .00020 | .00000 |
| %RSD | 29.108 | 4.3624 | 110.77 | 124.81 | 62.760 | 1356.8 | 47.186 | 2.0976 | 361.82 | 137.57 | 1.1029 |
| #1 | .00072 | .07866 | .00043 | .00001 | .00129 | -.00007 | .00651 | .02192 | -.00004 | .00029 | .00041 |
| #2 | .00109 | .07396 | .00358 | .00011 | .00050 | .00008 | .00325 | .02258 | .00002 | .00000 | .00041 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .03600 | | | .00058 | | | | | | |
| Low Limit | | -.03600 | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00114** | F **.10278** | F **.42235** | **-.00221** | F **.03459** | F **.00644** | **.00070** | F **.15109** | **.00076** | **.00670** | **-.00027** |
| Stddev | .00066 | .00189 | .02968 | .00166 | .00196 | .00009 | .00037 | .00533 | .00008 | .00199 | .00037 |
| %RSD | 57.873 | 1.8430 | 7.0262 | 75.243 | 5.6715 | 1.4611 | 52.525 | 3.5279 | 10.141 | 29.728 | 134.35 |
| #1 | -.00160 | .10145 | .44333 | -.00103 | .03320 | .00650 | .00044 | .15485 | .00081 | .00811 | -.00001 |
| #2 | -.00067 | .10412 | .40137 | -.00339 | .03598 | .00637 | .00096 | .14732 | .00070 | .00529 | -.00053 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | .25000 | | .02140 | .00051 | | .10000 | | | |
| Low Limit | | -.04400 | -.25000 | | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05947** | **.00288** | **.00262** | **-.00945** | **-.00064** | **.00018** | **.00280** | **.00050** | **.00037** | **.03619** | W **.00128** |
| Stddev | .00025 | .00293 | .00516 | .00687 | .00025 | .00012 | .00287 | .00022 | .00007 | .05334 | .00031 |
| %RSD | .42077 | 101.71 | 196.76 | 72.710 | 39.163 | 67.776 | 102.41 | 44.335 | 20.083 | 147.39 | 24.513 |
| #1 | -.05964 | .00081 | .00627 | -.01431 | -.00046 | .00027 | .00483 | .00034 | .00031 | -.00153 | .00150 |
| #2 | -.05929 | .00495 | -.00103 | -.00459 | -.00082 | .00010 | .00077 | .00065 | .00042 | .07390 | .00106 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | .00111 |
| Low Limit | | | | | | | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00327** | **.00202** |
| Stddev | .00038 | .00116 |
| %RSD | 11.721 | 57.098 |
| #1 | .00300 | .00121 |
| #2 | .00354 | .00284 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5439.5** | **67663.** | **3299.2** |
| Stddev | .8 | 86. | 11.5 |
| %RSD | .01407 | .12652 | .34989 |
| #1 | 5439.0 | 67723. | 3291.1 |
| #2 | 5440.1 | 67602. | 3307.4 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 19:04:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01156** | F **.15021** | **.01389** | **.10430** | **.01103** | W **.00079** | **.10671** | **.20155** | **.00498** | **.01070** | **.00974** |
| Stddev | .00002 | .01018 | .00070 | .00015 | .00037 | .00002 | .00135 | .00129 | .00011 | .00002 | .00011 |
| %RSD | .13706 | 6.7802 | 5.0046 | .14699 | 3.3435 | 2.9743 | 1.2625 | .63954 | 2.1512 | .18244 | 1.1540 |
| #1 | .01157 | .15741 | .01340 | .10420 | .01077 | .00081 | .10766 | .20246 | .00506 | .01071 | .00966 |
| #2 | .01155 | .14301 | .01438 | .10441 | .01129 | .00078 | .10576 | .20064 | .00491 | .01069 | .00982 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | .00100 | | | | | |
| Range | | 30.000% | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01309** | F **.15952** | W **3.8334** | W **.00772** | **.22529** | F **.01496** | **.01857** | W **1.2099** | **.04025** | **3.0216** | **.01019** |
| Stddev | .00041 | .00277 | .0113 | .00139 | .00049 | .00021 | .00025 | .0163 | .00023 | .0091 | .00044 |
| %RSD | 3.1144 | 1.7340 | .29566 | 17.948 | .21598 | 1.4295 | 1.3238 | 1.3449 | .58103 | .30009 | 4.2875 |
| #1 | .01338 | .16148 | 3.8414 | .00674 | .22564 | .01511 | .01875 | 1.2214 | .04041 | 3.0280 | .00988 |
| #2 | .01280 | .15757 | 3.8254 | .00870 | .22495 | .01481 | .01840 | 1.1984 | .04008 | 3.0151 | .01050 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | .01000 | | 1.0000 | | | |
| Range | | 30.000% | 20.000% | -20.000% | | 30.000% | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06106** | F **.01313** | W **.01805** | **.43418** | **.09271** | **.01066** | **.01777** | **.01037** | **.01558** | W **.07319** | **.00970** |
| Stddev | .00068 | .00128 | .00371 | .03038 | .00118 | .00007 | .00068 | .00046 | .00133 | .03124 | .00033 |
| %RSD | 1.1082 | 9.7850 | 20.568 | 6.9977 | 1.2734 | .70087 | 3.8295 | 4.4519 | 8.5305 | 42.684 | 3.4229 |
| #1 | -.06059 | .01222 | .01543 | .45566 | .09354 | .01071 | .01729 | .01070 | .01652 | .09528 | .00993 |
| #2 | -.06154 | .01404 | .02068 | .41270 | .09187 | .01061 | .01826 | .01005 | .01464 | .05110 | .00946 |
| Check ? | None | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | .01000 | .01500 | | | | | | | .06000 | |
| Range | | 30.000% | 20.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02338** | F **.02000** |
| Stddev | .00026 | .00372 |
| %RSD | 1.1026 | 18.622 |
| #1 | .02356 | .01736 |
| #2 | .02320 | .02263 |
| Check ? | Chk Pass | Chk Fail |
| Value | | .01500 |
| Range | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5418.7** | **67992.** | **3318.3** |
| Stddev | 14.2 | 8. | 5.8 |
| %RSD | .26226 | .01213 | .17500 |
| #1 | 5428.7 | 67986. | 3322.4 |
| #2 | 5408.6 | 67998. | 3314.2 |

Sample Name: 280-42046-A-3-A Acquired: 5/17/2013 19:06:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **71.595** | **.03361** | **.03142** | **.30475** | **.00313** | **.00422** | **11.038** | **.00101** |
| Stddev | .00060 | .515 | .00087 | .00023 | .00229 | .00006 | .00305 | .091 | .00004 |
| %RSD | 30.199 | .71933 | 2.5979 | .72403 | .75129 | 1.7599 | 72.396 | .82677 | 4.2965 |
| #1 | .00242 | 71.231 | .03423 | .03126 | .30313 | .00309 | .00206 | 10.974 | .00098 |
| #2 | .00157 | 71.959 | .03299 | .03158 | .30637 | .00317 | .00638 | 11.103 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05430** | **.08555** | **.28224** | **147.76** | **13.177** | **.14446** | **29.801** | **7.6522** | **.00196** |
| Stddev | .00014 | .00001 | .00116 | .51 | .135 | .00330 | .048 | .0007 | .00031 |
| %RSD | .26351 | .00931 | .41255 | .34842 | 1.0261 | 2.2862 | .16184 | .00923 | 15.978 |
| #1 | .05420 | .08554 | .28307 | 147.40 | 13.081 | .14213 | 29.835 | 7.6517 | .00218 |
| #2 | .05441 | .08556 | .28142 | 148.13 | 13.272 | .14680 | 29.767 | 7.6527 | .00174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.66381** | **.12136** | **4.1943** | **.04077** | **.05833** | **-.00299** | **.00178** | **1.7915** | **.00501** |
| Stddev | .00203 | .00009 | .0043 | .00142 | .00049 | .00086 | .00312 | .0208 | .00017 |
| %RSD | .30636 | .07575 | .10141 | 3.4721 | .83984 | 28.851 | 175.05 | 1.1582 | 3.3708 |
| #1 | .66237 | .12143 | 4.1913 | .03977 | .05868 | -.00360 | .00399 | 1.7769 | .00513 |
| #2 | .66524 | .12130 | 4.1973 | .04177 | .05798 | -.00238 | -.00042 | 1.8062 | .00490 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04661** | **.08052** | **.42233** | **-.00499** | **-.00805** | **.12591** | **.42960** | **.04464** |
| Stddev | .00008 | .00103 | .00112 | .00033 | .00246 | .00088 | .00077 | .00181 |
| %RSD | .16320 | 1.2744 | .26477 | 6.6928 | 30.590 | .69590 | .17877 | 4.0543 |
| #1 | .04655 | .08124 | .42312 | -.00476 | -.00979 | .12653 | .43015 | .04592 |
| #2 | .04666 | .07979 | .42154 | -.00523 | -.00631 | .12529 | .42906 | .04336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6024.8** | **74517.** | **3751.6** |
| Stddev | 5.7 | 48. | 29.0 |
| %RSD | .09448 | .06398 | .77221 |
| #1 | 6028.9 | 74483. | 3772.1 |
| #2 | 6020.8 | 74550. | 3731.2 |

Sample Name: 280-42046-A-4-A  Acquired: 5/17/2013 19:09:11  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00244** | **97.461** | **.04217** | **.03013** | **.45049** | **.00408** | **.00387** | **13.327** | **.00427** |
| Stddev | .00063 | .156 | .00022 | .00011 | .00082 | .00001 | .00179 | .043 | .00003 |
| %RSD | 25.824 | .16032 | .52097 | .35685 | .18183 | .24144 | 46.244 | .31960 | .78256 |
| #1 | .00289 | 97.571 | .04201 | .03005 | .45107 | .00409 | .00514 | 13.357 | .00429 |
| #2 | .00200 | 97.350 | .04232 | .03020 | .44991 | .00408 | .00261 | 13.297 | .00424 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06872** | **.13742** | **.22993** | **191.39** | **12.869** | **.18602** | **34.326** | W **10.712** | **.00536** |
| Stddev | .00058 | .00055 | .00102 | .62 | .062 | .00241 | .075 | .099 | .00008 |
| %RSD | .85092 | .40171 | .44230 | .32588 | .47821 | 1.2946 | .21991 | .92342 | 1.5145 |
| #1 | .06913 | .13782 | .23065 | 191.83 | 12.913 | .18772 | 34.380 | 10.642 | .00542 |
| #2 | .06830 | .13703 | .22921 | 190.95 | 12.826 | .18432 | 34.273 | 10.782 | .00530 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64606** | **.15978** | **5.1836** | **.20628** | **.71706** | **-.00328** | **.00487** | **1.9866** | **.00653** |
| Stddev | .00761 | .00084 | .0319 | .00241 | .00817 | .00060 | .00284 | .0090 | .00058 |
| %RSD | 1.1776 | .52308 | .61477 | 1.1673 | 1.1394 | 18.372 | 58.364 | .45176 | 8.8820 |
| #1 | .64068 | .16037 | 5.2062 | .20798 | .72284 | -.00285 | .00286 | 1.9803 | .00612 |
| #2 | .65144 | .15919 | 5.1611 | .20457 | .71129 | -.00370 | .00688 | 1.9930 | .00694 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06665** | **.09521** | **.56158** | **-.00728** | **-.04201** | **.18340** | **.79180** | **.02633** |
| Stddev | .00006 | .00137 | .00139 | .00127 | .01176 | .00123 | .00026 | .00180 |
| %RSD | .09184 | 1.4425 | .24781 | 17.492 | 27.982 | .67163 | .03271 | 6.8380 |
| #1 | .06661 | .09424 | .56257 | -.00818 | -.05032 | .18427 | .79198 | .02506 |
| #2 | .06669 | .09618 | .56060 | -.00638 | -.03370 | .18253 | .79161 | .02760 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6030.0** | **74897.** | **3793.6** |
| Stddev | 8.5 | 71. | 11.2 |
| %RSD | .14046 | .09419 | .29589 |
| #1 | 6035.9 | 74947. | 3785.7 |
| #2 | 6024.0 | 74847. | 3801.5 |

Sample Name: 280-42046-A-5-A Acquired: 5/17/2013 19:11:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **87.734** | **.03003** | **.02669** | **.22247** | **.00334** | **.01278** | **9.5036** | **.00121** |
| Stddev | .00030 | .234 | .00098 | .00035 | .00059 | .00013 | .00321 | .0443 | .00021 |
| %RSD | 39.056 | .26618 | 3.2574 | 1.3167 | .26355 | 3.9302 | 25.111 | .46620 | 17.613 |
| #1 | .00097 | 87.569 | .03072 | .02694 | .22205 | .00324 | .01051 | 9.5349 | .00136 |
| #2 | .00055 | 87.900 | .02934 | .02645 | .22288 | .00343 | .01504 | 9.4722 | .00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06035** | **.10503** | **.25980** | **143.59** | **10.639** | **.15214** | **40.991** | **6.1811** | **.00409** |
| Stddev | .00002 | .00008 | .00089 | .08 | .105 | .00121 | .038 | .0007 | .00011 |
| %RSD | .03909 | .08031 | .34358 | .05603 | .99000 | .79548 | .09326 | .01074 | 2.5689 |
| #1 | .06033 | .10509 | .26043 | 143.53 | 10.713 | .15128 | 41.018 | 6.1806 | .00402 |
| #2 | .06037 | .10497 | .25917 | 143.65 | 10.564 | .15300 | 40.964 | 6.1816 | .00417 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.80294** | **.14042** | **3.5851** | **.04296** | **.10842** | **-.00148** | **.00301** | **1.4730** | **.00669** |
| Stddev | .00346 | .00058 | .0050 | .00004 | .00339 | .00024 | .00217 | .0208 | .00116 |
| %RSD | .43105 | .41407 | .13805 | .09758 | 3.1312 | 16.159 | 72.131 | 1.4084 | 17.273 |
| #1 | .80539 | .14083 | 3.5886 | .04293 | .10602 | -.00165 | .00147 | 1.4877 | .00750 |
| #2 | .80049 | .14001 | 3.5816 | .04299 | .11082 | -.00131 | .00454 | 1.4583 | .00587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03074** | **.07899** | **1.8231** | **-.00563** | **-.04531** | **.13648** | **.45223** | **.04138** |
| Stddev | .00025 | .00010 | .0014 | .00145 | .02753 | .00039 | .00099 | .00392 |
| %RSD | .82609 | .12713 | .07720 | 25.795 | 60.769 | .28896 | .21912 | 9.4786 |
| #1 | .03092 | .07892 | 1.8241 | -.00665 | -.06477 | .13620 | .45293 | .04415 |
| #2 | .03056 | .07906 | 1.8222 | -.00460 | -.02584 | .13676 | .45153 | .03861 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5934.0** | **73450.** | **3697.0** |
| Stddev | 9.8 | 92. | 4.6 |
| %RSD | .16547 | .12551 | .12325 |
| #1 | 5927.0 | 73384. | 3693.8 |
| #2 | 5940.9 | 73515. | 3700.2 |

Sample Name: 280-42046-A-6-A Acquired: 5/17/2013 19:14:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **65.748** | **.09023** | **.02456** | **.27733** | **.00257** | **.01026** | **10.881** | **.00088** |
| Stddev | .00042 | .288 | .00243 | .00060 | .00065 | .00001 | .00300 | .031 | .00004 |
| %RSD | 30.779 | .43827 | 2.6977 | 2.4423 | .23470 | .57736 | 29.251 | .28131 | 4.0439 |
| #1 | .00168 | 65.952 | .08851 | .02498 | .27779 | .00256 | .00813 | 10.903 | .00086 |
| #2 | .00108 | 65.545 | .09195 | .02413 | .27687 | .00258 | .01238 | 10.859 | .00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05935** | **.09740** | **.25484** | **140.32** | **11.565** | **.13107** | **31.315** | **6.9453** | **.00522** |
| Stddev | .00040 | .00006 | .00048 | .18 | .029 | .00323 | .053 | .0083 | .00010 |
| %RSD | .66795 | .05653 | .19031 | .12728 | .25443 | 2.4644 | .16865 | .12003 | 1.9182 |
| #1 | .05963 | .09744 | .25518 | 140.19 | 11.544 | .13335 | 31.352 | 6.9394 | .00515 |
| #2 | .05907 | .09736 | .25450 | 140.44 | 11.586 | .12878 | 31.278 | 6.9512 | .00529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62062** | **.12454** | **3.8626** | **.08345** | **1.4772** | **-.00043** | **.00171** | **1.6269** | **.00645** |
| Stddev | .01341 | .00035 | .0111 | .00186 | .0009 | .00094 | .00256 | .0088 | .00028 |
| %RSD | 2.1611 | .28021 | .28626 | 2.2266 | .05986 | 217.43 | 150.05 | .53802 | 4.3995 |
| #1 | .61114 | .12479 | 3.8704 | .08214 | 1.4778 | .00023 | .00352 | 1.6331 | .00625 |
| #2 | .63010 | .12429 | 3.8548 | .08476 | 1.4766 | -.00110 | -.00010 | 1.6207 | .00665 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04792** | **.08389** | **1.8138** | **-.00466** | **-.02109** | **.12795** | **.47290** | **.03981** |
| Stddev | .00016 | .00106 | .0006 | .00075 | .04736 | .00051 | .00091 | .00043 |
| %RSD | .32413 | 1.2668 | .03087 | 16.044 | 224.53 | .39605 | .19210 | 1.0774 |
| #1 | .04803 | .08314 | 1.8142 | -.00413 | .01240 | .12831 | .47354 | .04011 |
| #2 | .04782 | .08464 | 1.8134 | -.00519 | -.05458 | .12759 | .47226 | .03950 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5963.8** | **74156.** | **3725.7** |
| Stddev | 1.0 | 99. | 22.4 |
| %RSD | .01659 | .13380 | .60093 |
| #1 | 5963.1 | 74227. | 3709.9 |
| #2 | 5964.5 | 74086. | 3741.6 |

Sample Name: 280-42046-A-7-A Acquired: 5/17/2013 19:16:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **62.050** | **.03156** | **.03311** | **.30239** | **.00224** | **.00173** | **45.159** | **.00506** |
| Stddev | .00014 | .229 | .00271 | .00017 | .00018 | .00001 | .00173 | .113 | .00022 |
| %RSD | 8.3110 | .36872 | 8.5786 | .52419 | .05936 | .58554 | 100.24 | .25102 | 4.2791 |
| #1 | .00177 | 62.212 | .02965 | .03298 | .30252 | .00225 | .00050 | 45.239 | .00490 |
| #2 | .00158 | 61.888 | .03348 | .03323 | .30227 | .00223 | .00295 | 45.079 | .00521 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03944** | **.09496** | **.16684** | **93.374** | **10.748** | **.09718** | **18.463** | **3.7192** | **.00263** |
| Stddev | .00027 | .00013 | .00083 | .362 | .017 | .00205 | .050 | .0056 | .00037 |
| %RSD | .67657 | .14050 | .49900 | .38758 | .15454 | 2.1043 | .27071 | .15029 | 14.161 |
| #1 | .03925 | .09505 | .16743 | 93.629 | 10.736 | .09863 | 18.498 | 3.7232 | .00236 |
| #2 | .03963 | .09486 | .16625 | 93.118 | 10.760 | .09574 | 18.427 | 3.7152 | .00289 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57518** | **.09598** | **4.5020** | **.36183** | **1.6357** | **.00014** | **.00333** | **1.8067** | **.00719** |
| Stddev | .00718 | .00023 | .0001 | .00176 | .0106 | .00356 | .00399 | .0238 | .00038 |
| %RSD | 1.2478 | .23963 | .00231 | .48652 | .64803 | 2498.9 | 119.75 | 1.3156 | 5.3307 |
| #1 | .58025 | .09614 | 4.5021 | .36059 | 1.6432 | .00266 | .00615 | 1.8235 | .00746 |
| #2 | .57010 | .09582 | 4.5019 | .36308 | 1.6282 | -.00237 | .00051 | 1.7899 | .00692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11084** | **.05229** | **.43441** | **-.00365** | **-.02907** | **.12484** | **.51227** | **.01200** |
| Stddev | .00012 | .00286 | .00137 | .00042 | .02288 | .00001 | .00225 | .00038 |
| %RSD | .10666 | 5.4679 | .31503 | 11.534 | 78.707 | .01050 | .43960 | 3.1460 |
| #1 | .11076 | .05027 | .43344 | -.00395 | -.01289 | .12483 | .51386 | .01173 |
| #2 | .11092 | .05431 | .43537 | -.00335 | -.04525 | .12485 | .51067 | .01226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5647.8** | **69811.** | **3573.4** |
| Stddev | 4.0 | 304. | 8.7 |
| %RSD | .07106 | .43520 | .24240 |
| #1 | 5645.0 | 69596. | 3567.3 |
| #2 | 5650.7 | 70026. | 3579.6 |

Sample Name: 280-42046-A-8-A Acquired: 5/17/2013 19:18:49 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00205** | **89.853** | **.04413** | **.02215** | **.37475** | **.00387** | **.00383** | **17.039** | **.00313** |
| Stddev | .00012 | .427 | .00023 | .00009 | .00224 | .00000 | .00115 | .104 | .00011 |
| %RSD | 5.7971 | .47572 | .52090 | .39656 | .59840 | .06838 | 29.961 | .61040 | 3.5501 |
| #1 | .00214 | 90.156 | .04429 | .02209 | .37634 | .00387 | .00302 | 17.113 | .00321 |
| #2 | .00197 | 89.551 | .04396 | .02222 | .37317 | .00387 | .00464 | 16.966 | .00306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07043** | **.14501** | **.34335** | **173.00** | **10.271** | **.17172** | **33.390** | **9.0955** | **.00197** |
| Stddev | .00049 | .00034 | .00103 | .10 | .058 | .00408 | .048 | .0048 | .00013 |
| %RSD | .70246 | .23155 | .30006 | .05652 | .56134 | 2.3769 | .14460 | .05234 | 6.3792 |
| #1 | .07008 | .14478 | .34262 | 173.07 | 10.311 | .16884 | 33.356 | 9.0989 | .00188 |
| #2 | .07078 | .14525 | .34408 | 172.93 | 10.230 | .17461 | 33.424 | 9.0922 | .00206 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57152** | **.15245** | **4.6798** | **.35104** | **.46267** | **-.00393** | **.00529** | **1.8096** | **.00586** |
| Stddev | .00731 | .00045 | .0186 | .00112 | .00422 | .00043 | .00168 | .0137 | .00087 |
| %RSD | 1.2797 | .29841 | .39654 | .31800 | .91180 | 10.930 | 31.817 | .75792 | 14.803 |
| #1 | .57669 | .15213 | 4.6667 | .35025 | .45969 | -.00363 | .00410 | 1.8193 | .00647 |
| #2 | .56635 | .15277 | 4.6929 | .35183 | .46565 | -.00424 | .00648 | 1.7999 | .00524 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05025** | **.08652** | **.45037** | **-.00790** | **.00600** | **.16015** | **.72308** | **.02482** |
| Stddev | .00011 | .00034 | .00454 | .00115 | .01894 | .00041 | .00178 | .00030 |
| %RSD | .22730 | .39169 | 1.0090 | 14.549 | 315.74 | .25350 | .24641 | 1.2085 |
| #1 | .05016 | .08628 | .45358 | -.00871 | -.00739 | .15986 | .72182 | .02503 |
| #2 | .05033 | .08676 | .44716 | -.00708 | .01939 | .16043 | .72434 | .02461 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6253.8** | **77340.** | **3892.1** |
| Stddev | 3.6 | 12. | 34.3 |
| %RSD | .05682 | .01523 | .88033 |
| #1 | 6251.3 | 77349. | 3867.9 |
| #2 | 6256.3 | 77332. | 3916.4 |

Sample Name: 280-42046-A-9-A Acquired: 5/17/2013 19:21:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00187** | **74.974** | **.03477** | **.02094** | **.31706** | **.00329** | **.00492** | **17.576** | **.00151** |
| Stddev | .00014 | .240 | .00034 | .00047 | .00085 | .00015 | .00205 | .084 | .00002 |
| %RSD | 7.3799 | .31990 | .98503 | 2.2449 | .26783 | 4.5595 | 41.652 | .47998 | 1.1845 |
| #1 | .00197 | 75.143 | .03501 | .02127 | .31766 | .00340 | .00347 | 17.636 | .00150 |
| #2 | .00177 | 74.804 | .03453 | .02061 | .31645 | .00319 | .00636 | 17.517 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05847** | **.09396** | **.28537** | **166.70** | **10.067** | **.16922** | **37.467** | W **11.270** | **.00275** |
| Stddev | .00009 | .00033 | .00046 | .29 | .007 | .00105 | .013 | .048 | .00009 |
| %RSD | .15386 | .35293 | .15983 | .17222 | .07194 | .62117 | .03529 | .42258 | 3.3854 |
| #1 | .05841 | .09373 | .28569 | 166.90 | 10.062 | .16847 | 37.476 | 11.236 | .00268 |
| #2 | .05853 | .09420 | .28504 | 166.50 | 10.072 | .16996 | 37.457 | 11.303 | .00281 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54862** | **.13710** | **6.2332** | **.05586** | **.07324** | **-.00483** | **.00234** | **1.5662** | **.00439** |
| Stddev | .01433 | .00057 | .0088 | .00028 | .00180 | .00098 | .00106 | .0354 | .00033 |
| %RSD | 2.6120 | .41408 | .14062 | .50747 | 2.4568 | 20.190 | 45.477 | 2.2585 | 7.5732 |
| #1 | .55875 | .13750 | 6.2394 | .05606 | .07197 | -.00553 | .00159 | 1.5912 | .00415 |
| #2 | .53849 | .13670 | 6.2270 | .05566 | .07452 | -.00414 | .00309 | 1.5412 | .00462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06331** | **.08763** | **.33037** | **-.00618** | **-.04827** | **.12312** | **.50155** | **.04320** |
| Stddev | .00025 | .00101 | .00042 | .00110 | .04660 | .00101 | .00140 | .00537 |
| %RSD | .39080 | 1.1488 | .12575 | 17.797 | 96.526 | .82087 | .27818 | 12.435 |
| #1 | .06314 | .08692 | .33008 | -.00540 | -.01533 | .12383 | .50057 | .03940 |
| #2 | .06349 | .08834 | .33066 | -.00696 | -.08122 | .12240 | .50254 | .04699 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6207.2** | **76360.** | **3830.8** |
| Stddev | 8.6 | 278. | 35.7 |
| %RSD | .13878 | .36410 | .93151 |
| #1 | 6213.3 | 76557. | 3805.6 |
| #2 | 6201.1 | 76163. | 3856.1 |

Sample Name: 280-42046-A-10-A  Acquired: 5/17/2013 19:23:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00157** | **63.534** | **.03699** | **.02216** | **.28233** | **.00289** | **.00554** | **12.238** | **.00101** |
| Stddev | .00020 | .471 | .00250 | .00013 | .00188 | .00004 | .00007 | .076 | .00019 |
| %RSD | 12.792 | .74211 | 6.7555 | .60860 | .66611 | 1.3670 | 1.3390 | .61844 | 18.905 |
| #1 | .00143 | 63.201 | .03523 | .02226 | .28100 | .00286 | .00549 | 12.185 | .00114 |
| #2 | .00172 | 63.868 | .03876 | .02207 | .28366 | .00292 | .00560 | 12.292 | .00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05544** | **.09919** | **.26717** | **143.88** | **10.482** | **.13075** | **27.849** | **8.4261** | **.00914** |
| Stddev | .00011 | .00044 | .00097 | .31 | .012 | .00256 | .010 | .0176 | .00017 |
| %RSD | .20382 | .44443 | .36198 | .21515 | .11253 | 1.9595 | .03613 | .20865 | 1.9091 |
| #1 | .05536 | .09888 | .26785 | 143.66 | 10.491 | .12894 | 27.856 | 8.4137 | .00902 |
| #2 | .05552 | .09950 | .26648 | 144.10 | 10.474 | .13256 | 27.842 | 8.4386 | .00927 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.66228** | **.12371** | **4.7481** | **.06678** | **.09603** | **-.00171** | **.00172** | **2.1951** | **.00578** |
| Stddev | .00965 | .00061 | .0191 | .00002 | .00126 | .00065 | .00029 | .0219 | .00007 |
| %RSD | 1.4572 | .49457 | .40240 | .03307 | 1.3092 | 37.877 | 16.886 | .99924 | 1.2962 |
| #1 | .66911 | .12328 | 4.7346 | .06680 | .09692 | -.00125 | .00151 | 2.2106 | .00583 |
| #2 | .65546 | .12414 | 4.7616 | .06677 | .09514 | -.00217 | .00192 | 2.1796 | .00573 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05460** | **.07835** | **.36025** | **-.00572** | **.00266** | **.11450** | **.41589** | **.04568** |
| Stddev | .00009 | .00001 | .00912 | .00123 | .02756 | .00018 | .00001 | .00535 |
| %RSD | .16351 | .01535 | 2.5307 | 21.475 | 1037.3 | .15399 | .00193 | 11.719 |
| #1 | .05453 | .07834 | .35381 | -.00658 | .02214 | .11462 | .41589 | .04947 |
| #2 | .05466 | .07836 | .36670 | -.00485 | -.01683 | .11437 | .41590 | .04190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6168.2** | **76551.** | **3786.7** |
| Stddev | 10.5 | 203. | 24.3 |
| %RSD | .16972 | .26465 | .64274 |
| #1 | 6175.6 | 76408. | 3803.9 |
| #2 | 6160.8 | 76694. | 3769.5 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 19:26:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **45.137** | **-.00170** | **-.00048** | **.00079** | **-.00001** | **.95008** | **.02305** | **-.00075** | **.00197** | **.00021** | **-.00294** |
| Stddev | .00040 | .043 | .00236 | .00012 | .00016 | .00014 | .00074 | .00109 | .00016 | .00002 | .00008 | .00039 |
| %RSD | 341.71 | .09486 | 138.60 | 24.502 | 20.319 | 1547.9 | .07776 | 4.7104 | 21.492 | .83371 | 38.500 | 13.433 |
| #1 | .00017 | 45.167 | -.00003 | -.00056 | .00090 | .00009 | .95060 | .02229 | -.00087 | .00198 | .00027 | -.00322 |
| #2 | -.00040 | 45.107 | -.00337 | -.00040 | .00067 | -.00011 | .94956 | .02382 | -.00064 | .00195 | .00015 | -.00266 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **37.727** | **.51128** | **-.00270** | **.04564** | **.00954** | **-.00150** | **271.69** | **.00191** | **.01064** | **.00094** | **4.7785** | **.00100** |
| Stddev | .078 | .06850 | .00016 | .00284 | .00009 | .00043 | 1.49 | .00005 | .00036 | .00043 | .0091 | .00015 |
| %RSD | .20647 | 13.398 | 5.9077 | 6.2213 | .94081 | 28.789 | .54888 | 2.7189 | 3.3849 | 46.233 | .19133 | 14.500 |
| #1 | 37.782 | .46284 | -.00282 | .04765 | .00947 | -.00180 | 272.74 | .00188 | .01038 | .00124 | 4.7850 | .00111 |
| #2 | 37.671 | .55972 | -.00259 | .04364 | .00960 | -.00119 | 270.63 | .00195 | .01089 | .00063 | 4.7720 | .00090 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | 50.000 | | | | | | | | | | | |
| Range | -10.000% | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00713** | **.01215** | **-.00000** | **.00033** | **5.0243** | **.00512** | **-.00160** | **9.6748** | **.00009** | **.00423** | **-.06456** |
| Stddev | .00141 | .00217 | .00161 | .00006 | .0132 | .00022 | .00102 | .0067 | .00044 | .00045 | .00541 |
| %RSD | 19.782 | 17.858 | 191430. | 17.576 | .26249 | 4.2765 | 63.914 | .06906 | 509.91 | 10.561 | 8.3786 |
| #1 | .00812 | .01062 | -.00114 | .00037 | 5.0150 | .00527 | -.00232 | 9.6700 | .00040 | .00392 | -.06073 |
| #2 | .00613 | .01369 | .00114 | .00029 | 5.0337 | .00496 | -.00088 | 9.6795 | -.00023 | .00455 | -.06838 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5290.8** | **66049.** | **3277.5** |
| Stddev | 4.3 | 229. | 11.0 |
| %RSD | .08127 | .34627 | .33592 |
| #1 | 5287.7 | 66211. | 3269.8 |
| #2 | 5293.8 | 65888. | 3285.3 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 19:28:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51562** | F **.58806** | **.96661** | **.51388** | **.51278** | F **.43549** | **.00500** | **4.6269** | **.49746** | **.50750** | **.47779** | **.47487** |
| Stddev | .00128 | .00270 | .00037 | .00110 | .00170 | .00113 | .00022 | .0049 | .00037 | .00055 | .00023 | .00001 |
| %RSD | .24853 | .45933 | .03859 | .21459 | .33071 | .26006 | 4.3267 | .10483 | .07511 | .10749 | .04771 | .00216 |
| #1 | .51652 | .58997 | .96687 | .51466 | .51158 | .43469 | .00485 | 4.6235 | .49719 | .50789 | .47763 | .47486 |
| #2 | .51471 | .58615 | .96635 | .51310 | .51398 | .43629 | .00515 | 4.6303 | .49772 | .50712 | .47795 | .47488 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | .50000 | | | | | | |
| Range | | 10.000% | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1598** | F **55.533** | F **1.1099** | **19.457** | **.50650** | **.46528** | **5.3128** | **.49048** | **1.0169** | **.99854** | **-.06051** | **1.0006** |
| Stddev | .0107 | .205 | .0110 | .020 | .00116 | .00004 | .0048 | .00092 | .0071 | .00200 | .00082 | .0013 |
| %RSD | .49327 | .36879 | .99499 | .10027 | .22972 | .00840 | .09064 | .18664 | .70151 | .20067 | 1.3526 | .12846 |
| #1 | 2.1523 | 55.388 | 1.1021 | 19.443 | .50568 | .46531 | 5.3094 | .48983 | 1.0119 | .99996 | -.05993 | 1.0015 |
| #2 | 2.1674 | 55.678 | 1.1177 | 19.471 | .50732 | .46525 | 5.3163 | .49113 | 1.0220 | .99713 | -.06109 | .99970 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0223** | F **4.2511** | **.93147** | **.52395** | **.00543** | **.49491** | **.95794** | **.00718** | **.47905** | **.49209** | **.46144** |
| Stddev | .0027 | .0198 | .00276 | .00163 | .00058 | .00141 | .00421 | .00212 | .00016 | .00114 | .00068 |
| %RSD | .26356 | .46448 | .29654 | .31083 | 10.777 | .28576 | .43990 | 29.564 | .03352 | .23264 | .14712 |
| #1 | 1.0204 | 4.2371 | .93342 | .52280 | .00584 | .49391 | .96092 | .00868 | .47916 | .49290 | .46192 |
| #2 | 1.0242 | 4.2650 | .92952 | .52511 | .00501 | .49591 | .95496 | .00568 | .47893 | .49128 | .46096 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5371.3** | **66762.** | **3301.4** |
| Stddev | 7.7 | 106. | 14.7 |
| %RSD | .14426 | .15919 | .44620 |
| #1 | 5376.8 | 66687. | 3311.9 |
| #2 | 5365.8 | 66837. | 3291.0 |

Sample Name: CCB Acquired: 5/17/2013 19:30:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00130** | F **.06495** | **.00022** | **-.00123** | **.00054** | **-.00008** | **.00160** | **.00842** | **-.00009** | **.00042** | **.00010** |
| Stddev | .00015 | .00314 | .00162 | .00026 | .00078 | .00004 | .00482 | .00342 | .00017 | .00007 | .00007 |
| %RSD | 11.468 | 4.8291 | 738.77 | 21.390 | 143.38 | 48.600 | 301.84 | 40.684 | 180.15 | 15.969 | 69.781 |
| #1 | .00140 | .06717 | .00137 | -.00141 | -.00001 | -.00005 | -.00181 | .01084 | -.00021 | .00047 | .00014 |
| #2 | .00119 | .06273 | -.00093 | -.00104 | .00109 | -.00011 | .00500 | .00600 | .00003 | .00037 | .00005 |
| Check ? | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | .03600 | | | | | | | | | |
| Low Limit | -.00093 | -.03600 | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00072** | F **.12516** | W **.24416** | W **-.00276** | F **.02805** | F **.00671** | **.00026** | F **.11692** | **.00077** | **.00474** | **-.00155** |
| Stddev | .00009 | .00289 | .05301 | .00212 | .00102 | .00024 | .00053 | .01126 | .00011 | .00244 | .00048 |
| %RSD | 12.826 | 2.3106 | 21.711 | 76.590 | 3.6414 | 3.6326 | 202.21 | 9.6266 | 14.159 | 51.367 | 30.655 |
| #1 | -.00066 | .12311 | .28164 | -.00426 | .02877 | .00689 | -.00011 | .10896 | .00085 | .00647 | -.00189 |
| #2 | -.00079 | .12720 | .20667 | -.00127 | .02733 | .00654 | .00064 | .12488 | .00069 | .00302 | -.00122 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | .23700 | .00261 | .02140 | .00051 | | .10000 | | | |
| Low Limit | | -.04400 | -.23700 | -.00261 | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06008** | W **.00317** | **.00192** | **-.00446** | **-.00129** | **.00005** | **.00239** | **.00044** | **-.00123** | **.04398** | **.00048** |
| Stddev | .00208 | .00251 | .00091 | .02540 | .00152 | .00000 | .00076 | .00027 | .00058 | .00876 | .00038 |
| %RSD | 3.4696 | 79.098 | 47.624 | 569.47 | 117.90 | 1.4850 | 31.818 | 62.824 | 47.235 | 19.921 | 77.956 |
| #1 | -.06155 | .00140 | .00256 | .01350 | -.00021 | .00005 | .00293 | .00063 | -.00164 | .03778 | .00022 |
| #2 | -.05860 | .00494 | .00127 | -.02242 | -.00236 | .00005 | .00186 | .00024 | -.00082 | .05017 | .00075 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00267** | **.00154** |
| Stddev | .00037 | .00080 |
| %RSD | 13.727 | 52.204 |
| #1 | .00293 | .00211 |
| #2 | .00241 | .00097 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5446.8** | **67505.** | **3301.5** |
| Stddev | 1.8 | 256. | 1.0 |
| %RSD | .03257 | .37936 | .02905 |
| #1 | 5445.6 | 67324. | 3300.8 |
| #2 | 5448.1 | 67686. | 3302.1 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 19:33:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01110** | **.11510** | **.01342** | **.10246** | **.01091** | **.00083** | **.10630** | **.19451** | **.00494** | **.01060** | **.00970** |
| Stddev | .00047 | .01654 | .00070 | .00021 | .00154 | .00005 | .00078 | .00333 | .00002 | .00014 | .00002 |
| %RSD | 4.1940 | 14.373 | 5.2406 | .20453 | 14.118 | 5.8901 | .72927 | 1.7102 | .36353 | 1.3104 | .19342 |
| #1 | .01077 | .12680 | .01392 | .10231 | .01200 | .00087 | .10576 | .19216 | .00493 | .01070 | .00972 |
| #2 | .01143 | .10340 | .01292 | .10261 | .00982 | .00080 | .10685 | .19686 | .00496 | .01050 | .00969 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01333** | F **.16365** | W **3.7250** | **.00818** | **.21707** | F **.01465** | **.01849** | **1.1640** | **.04045** | **3.0148** | **.00773** |
| Stddev | .00052 | .00594 | .0384 | .00066 | .00001 | .00004 | .00056 | .0051 | .00008 | .0200 | .00161 |
| %RSD | 3.8852 | 3.6273 | 1.0304 | 8.0345 | .00386 | .24191 | 3.0311 | .43848 | .19582 | .66341 | 20.861 |
| #1 | .01370 | .16785 | 3.6979 | .00864 | .21706 | .01467 | .01809 | 1.1676 | .04051 | 3.0007 | .00659 |
| #2 | .01297 | .15945 | 3.7521 | .00771 | .21707 | .01462 | .01888 | 1.1604 | .04039 | 3.0290 | .00887 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | | | .01000 | | | | | |
| Range | | 30.000% | 20.000% | | | 30.000% | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06140** | W **.01249** | **.01733** | **.41654** | **.09340** | **.01064** | **.01646** | **.01051** | **.01452** | F **.09204** | **.00963** |
| Stddev | .00016 | .00406 | .00099 | .00378 | .00152 | .00010 | .00074 | .00031 | .00049 | .01915 | .00041 |
| %RSD | .25630 | 32.536 | 5.7180 | .90636 | 1.6229 | .91879 | 4.4912 | 2.9299 | 3.3916 | 20.811 | 4.3019 |
| #1 | -.06151 | .00962 | .01663 | .41387 | .09232 | .01057 | .01594 | .01029 | .01487 | .07850 | .00933 |
| #2 | -.06129 | .01536 | .01803 | .41921 | .09447 | .01071 | .01699 | .01073 | .01417 | .10559 | .00992 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02282** | **.01762** |
| Stddev | .00073 | .00041 |
| %RSD | 3.2053 | 2.3145 |
| #1 | .02230 | .01791 |
| #2 | .02334 | .01733 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5484.7** | **68292.** | **3332.4** |
| Stddev | 17.2 | 4. | 2.4 |
| %RSD | .31370 | .00621 | .07201 |
| #1 | 5496.9 | 68295. | 3330.7 |
| #2 | 5472.6 | 68289. | 3334.1 |

Sample Name: MB 280-174353/1-A Acquired: 5/17/2013 19:35:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00115** | **.01157** | **.00120** | F **.03021** | **.00048** | **-.00011** | **.00209** | **.04313** | **-.00005** |
| Stddev | .00015 | .00012 | .00119 | .00026 | .00042 | .00000 | .00199 | .00223 | .00013 |
| %RSD | 13.135 | 1.0386 | 98.890 | .85807 | 86.657 | .78090 | 95.140 | 5.1799 | 281.02 |
| #1 | .00126 | .01166 | .00205 | .03039 | .00078 | -.00011 | .00068 | .04471 | .00005 |
| #2 | .00105 | .01149 | .00036 | .03002 | .00019 | -.00011 | .00350 | .04155 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00019** | **-.00018** | **.00577** | **.35654** | **-.00363** | **.01014** | **.00033** | **.00037** |
| Stddev | .00010 | .00012 | .00014 | .00109 | .07108 | .00031 | .00214 | .00002 | .00006 |
| %RSD | 31.925 | 62.808 | 79.683 | 18.852 | 19.935 | 8.4263 | 21.137 | 5.5962 | 16.964 |
| #1 | .00024 | .00011 | -.00028 | .00654 | .40680 | -.00385 | .00862 | .00032 | .00042 |
| #2 | .00039 | .00027 | -.00008 | .00500 | .30628 | -.00341 | .01165 | .00035 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39996** | **.00052** | F **.09305** | **.00014** | **-.02749** | **-.00021** | **.00465** | **.04313** | **.00430** |
| Stddev | .01210 | .00030 | .00382 | .00119 | .00033 | .00134 | .00697 | .01613 | .00020 |
| %RSD | 3.0248 | 58.713 | 4.1004 | 828.13 | 1.1944 | 644.12 | 149.74 | 37.411 | 4.6554 |
| #1 | .39141 | .00030 | .09575 | -.00070 | -.02772 | .00074 | .00958 | .05453 | .00416 |
| #2 | .40852 | .00073 | .09036 | .00098 | -.02726 | -.00116 | -.00027 | .03172 | .00444 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00041** | **.00070** | **-.00064** | **-.02374** | **.00042** | **.00335** | **.00280** |
| Stddev | .00005 | .00057 | .00006 | .00227 | .00195 | .00002 | .00026 | .00312 |
| %RSD | 113.69 | 137.43 | 8.7372 | 355.80 | 8.2033 | 5.1759 | 7.6943 | 111.72 |
| #1 | .00008 | .00001 | .00066 | .00097 | -.02512 | .00041 | .00354 | .00059 |
| #2 | .00001 | .00081 | .00074 | -.00224 | -.02236 | .00044 | .00317 | .00501 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5499.5** | **69271.** | **3386.1** |
| Stddev | 7.4 | 78. | 1.3 |
| %RSD | .13474 | .11215 | .03968 |
| #1 | 5504.8 | 69216. | 3387.1 |
| #2 | 5494.3 | 69326. | 3385.2 |

Sample Name: LCS 280-174353/2-A Acquired: 5/17/2013 19:38:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05301** | **2.0125** | **.95169** | F **1.2697** | **2.0579** | **.04402** | **1.9921** | **44.987** | **.10028** |
| Stddev | .00053 | .0012 | .00047 | .0008 | .0193 | .00027 | .0022 | .381 | .00006 |
| %RSD | .99611 | .05993 | .04933 | .06114 | .93568 | .60408 | .11046 | .84632 | .05734 |
| #1 | .05264 | 2.0134 | .95136 | 1.2702 | 2.0716 | .04420 | 1.9905 | 45.257 | .10024 |
| #2 | .05338 | 2.0117 | .95202 | 1.2691 | 2.0443 | .04383 | 1.9936 | 44.718 | .10032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49455** | **.19027** | **.23785** | F **.81013** | F **55.911** | F **1.1020** | **47.539** | **.48713** | **.92780** |
| Stddev | .00040 | .00011 | .00034 | .00927 | .487 | .0103 | .094 | .00057 | .00001 |
| %RSD | .08073 | .05997 | .14406 | 1.1442 | .87132 | .93318 | .19672 | .11617 | .00077 |
| #1 | .49483 | .19036 | .23809 | .81669 | 56.255 | 1.1092 | 47.605 | .48753 | .92781 |
| #2 | .49427 | .19019 | .23761 | .80358 | 55.566 | 1.0947 | 47.473 | .48673 | .92780 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.2000 | 55.000 | 1.1000 | | | |
| Low Limit | | | | .87000 | 44.500 | .90000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **58.051** | **.47682** | **10.309** | **.48753** | **-.02350** | **.49945** | **2.0391** | **1.0438** | **1.8499** |
| Stddev | .418 | .00080 | .001 | .00011 | .00088 | .00095 | .0038 | .0085 | .0070 |
| %RSD | .72025 | .16768 | .00523 | .02213 | 3.7316 | .18963 | .18798 | .81754 | .37641 |
| #1 | 58.347 | .47738 | 10.310 | .48760 | -.02412 | .50012 | 2.0418 | 1.0498 | 1.8549 |
| #2 | 57.755 | .47625 | 10.309 | .48745 | -.02288 | .49878 | 2.0363 | 1.0377 | 1.8450 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 56.000 | | | | | | | | |
| Low Limit | 45.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0405** | **1.0261** | **.98544** | **1.9041** | **2.0206** | **.47670** | **.47876** | **.45128** |
| Stddev | .0083 | .0036 | .00054 | .0048 | .0107 | .00086 | .00055 | .00023 |
| %RSD | .79636 | .35089 | .05431 | .25129 | .52694 | .17995 | .11479 | .04998 |
| #1 | 1.0464 | 1.0287 | .98582 | 1.9074 | 2.0281 | .47730 | .47915 | .45144 |
| #2 | 1.0347 | 1.0236 | .98507 | 1.9007 | 2.0130 | .47609 | .47837 | .45112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5293.7** | **66649.** | **3285.2** |
| Stddev | 3.3 | 107. | 37.8 |
| %RSD | .06316 | .15993 | 1.1510 |
| #1 | 5291.3 | 66574. | 3258.5 |
| #2 | 5296.1 | 66724. | 3312.0 |

Sample Name: 280-42158-A-1-B Acquired: 5/17/2013 19:40:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00271** | **91.590** | **.03592** | **.01962** | **.49767** | **.00321** | **.00835** | **6.1490** | **.00179** |
| Stddev | .00013 | .386 | .00077 | .00032 | .00210 | .00003 | .00036 | .0109 | .00017 |
| %RSD | 4.8093 | .42165 | 2.1357 | 1.6193 | .42137 | .93182 | 4.3048 | .17792 | 9.5090 |
| #1 | .00262 | 91.863 | .03538 | .01984 | .49916 | .00319 | .00860 | 6.1567 | .00192 |
| #2 | .00281 | 91.316 | .03646 | .01939 | .49619 | .00323 | .00809 | 6.1413 | .00167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04948** | **.08889** | **.14962** | **140.30** | **8.6190** | **.14739** | **19.371** | W **10.196** | **.00330** |
| Stddev | .00039 | .00039 | .00007 | .38 | .0687 | .00147 | .006 | .048 | .00052 |
| %RSD | .78125 | .44204 | .04346 | .27186 | .79650 | .99455 | .03160 | .47006 | 15.829 |
| #1 | .04921 | .08861 | .14958 | 140.03 | 8.6675 | .14635 | 19.367 | 10.162 | .00293 |
| #2 | .04976 | .08917 | .14967 | 140.57 | 8.5704 | .14843 | 19.375 | 10.230 | .00367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64661** | **.09620** | **6.2444** | **.08034** | **.86707** | **-.00252** | **.00354** | **1.7056** | **.00653** |
| Stddev | .00854 | .00050 | .0220 | .00158 | .00016 | .00280 | .00210 | .0337 | .00050 |
| %RSD | 1.3200 | .52470 | .35182 | 1.9604 | .01864 | 111.03 | 59.398 | 1.9739 | 7.6988 |
| #1 | .65264 | .09584 | 6.2289 | .07923 | .86696 | -.00054 | .00502 | 1.7294 | .00688 |
| #2 | .64057 | .09655 | 6.2600 | .08145 | .86719 | -.00450 | .00205 | 1.6818 | .00617 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03153** | **.07216** | **.57843** | **-.00688** | **-.00222** | **.16500** | **.50805** | **.01284** |
| Stddev | .00048 | .00108 | .00364 | .00178 | .01085 | .00039 | .00096 | .00009 |
| %RSD | 1.5206 | 1.4906 | .62882 | 25.894 | 489.77 | .23527 | .18904 | .73431 |
| #1 | .03187 | .07140 | .58100 | -.00814 | -.00989 | .16473 | .50737 | .01277 |
| #2 | .03119 | .07292 | .57585 | -.00562 | .00546 | .16528 | .50873 | .01290 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5591.0** | **68937.** | **3498.2** |
| Stddev | 6.6 | 150. | 11.3 |
| %RSD | .11806 | .21735 | .32177 |
| #1 | 5595.7 | 69043. | 3490.2 |
| #2 | 5586.3 | 68831. | 3506.1 |

Sample Name: 280-42158-A-2-D Acquired: 5/17/2013 19:42:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00303** | **77.696** | **.09514** | **.02001** | **.35134** | **.00311** | **.00682** | **22.377** | **.00123** |
| Stddev | .00015 | .655 | .00221 | .00073 | .00096 | .00001 | .00154 | .144 | .00003 |
| %RSD | 5.0818 | .84268 | 2.3211 | 3.6385 | .27322 | .33680 | 22.548 | .64460 | 2.3800 |
| #1 | .00314 | 78.159 | .09671 | .02053 | .35202 | .00312 | .00573 | 22.479 | .00121 |
| #2 | .00293 | 77.233 | .09358 | .01950 | .35066 | .00311 | .00790 | 22.275 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07137** | **.09384** | **.28905** | **180.61** | **9.8308** | **.16581** | **29.376** | W **13.182** | **.00237** |
| Stddev | .00024 | .00011 | .00033 | .49 | .0262 | .00128 | .026 | .073 | .00020 |
| %RSD | .33693 | .11217 | .11577 | .27287 | .26627 | .76958 | .08714 | .55693 | 8.5899 |
| #1 | .07120 | .09376 | .28882 | 180.95 | 9.8493 | .16671 | 29.394 | 13.130 | .00223 |
| #2 | .07154 | .09391 | .28929 | 180.26 | 9.8123 | .16491 | 29.358 | 13.234 | .00252 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72422** | **.13613** | **8.2655** | **.04990** | **.38052** | **-.00063** | **.00572** | **2.2574** | **.00437** |
| Stddev | .01370 | .00008 | .0293 | .00147 | .00368 | .00113 | .00001 | .0646 | .00051 |
| %RSD | 1.8910 | .05838 | .35465 | 2.9455 | .96717 | 177.91 | .23398 | 2.8623 | 11.750 |
| #1 | .71454 | .13619 | 8.2447 | .05094 | .37792 | .00016 | .00571 | 2.3031 | .00473 |
| #2 | .73391 | .13608 | 8.2862 | .04886 | .38312 | -.00143 | .00573 | 2.2117 | .00401 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05328** | **.08769** | **.54270** | **-.00749** | **-.02049** | **.13337** | **.38720** | **.04333** |
| Stddev | .00005 | .00008 | .00104 | .00143 | .04088 | .00031 | .00060 | .00031 |
| %RSD | .09135 | .09363 | .19159 | 19.090 | 199.50 | .23171 | .15439 | .70709 |
| #1 | .05325 | .08763 | .54344 | -.00648 | -.04940 | .13359 | .38762 | .04355 |
| #2 | .05332 | .08775 | .54197 | -.00850 | .00842 | .13315 | .38678 | .04312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6501.4** | **80867.** | **4002.1** |
| Stddev | 4.6 | 237. | 71.4 |
| %RSD | .07132 | .29268 | 1.7847 |
| #1 | 6504.7 | 80699. | 3951.6 |
| #2 | 6498.1 | 81034. | 4052.6 |

Sample Name: 280-42158-A-3-C Acquired: 5/17/2013 19:45:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00274** | **81.978** | **.04319** | **.03151** | **.34773** | **.00379** | **.00561** | **10.827** | **.00134** |
| Stddev | .00089 | .097 | .00207 | .00008 | .00129 | .00010 | .00180 | .023 | .00015 |
| %RSD | 32.610 | .11807 | 4.7956 | .26400 | .37011 | 2.7385 | 32.164 | .20853 | 11.551 |
| #1 | .00211 | 81.910 | .04173 | .03145 | .34864 | .00386 | .00689 | 10.843 | .00145 |
| #2 | .00338 | 82.046 | .04466 | .03157 | .34682 | .00372 | .00433 | 10.811 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06945** | **.14490** | **.29859** | **179.42** | **14.280** | **.18543** | **36.112** | W **10.619** | **.01858** |
| Stddev | .00015 | .00054 | .00012 | .22 | .018 | .00287 | .029 | .032 | .00002 |
| %RSD | .21194 | .37202 | .04147 | .12093 | .12332 | 1.5469 | .07923 | .30536 | .08116 |
| #1 | .06955 | .14529 | .29850 | 179.57 | 14.267 | .18746 | 36.092 | 10.596 | .01857 |
| #2 | .06934 | .14452 | .29868 | 179.26 | 14.292 | .18340 | 36.133 | 10.642 | .01859 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65945** | **.15915** | **4.4797** | **.06169** | **.10498** | **-.00168** | **-.00056** | **2.2684** | **.00535** |
| Stddev | .01465 | .00038 | .0219 | .00029 | .00077 | .00138 | .00034 | .0694 | .00041 |
| %RSD | 2.2210 | .24092 | .48866 | .47687 | .72934 | 82.085 | 60.136 | 3.0606 | 7.7037 |
| #1 | .66981 | .15942 | 4.4952 | .06190 | .10552 | -.00266 | -.00032 | 2.3175 | .00506 |
| #2 | .64910 | .15888 | 4.4642 | .06148 | .10444 | -.00071 | -.00080 | 2.2193 | .00564 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05404** | **.09237** | **.42770** | **-.00735** | **.01068** | **.15316** | **.56505** | **.04923** |
| Stddev | .00013 | .00145 | .00194 | .00006 | .01138 | .00029 | .00015 | .00201 |
| %RSD | .24042 | 1.5689 | .45327 | .83824 | 106.54 | .19069 | .02583 | 4.0778 |
| #1 | .05395 | .09135 | .42633 | -.00731 | .01872 | .15336 | .56515 | .05065 |
| #2 | .05413 | .09340 | .42907 | -.00740 | .00263 | .15295 | .56495 | .04781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6218.2** | **77408.** | **3880.5** |
| Stddev | 15.1 | 90. | 12.4 |
| %RSD | .24279 | .11608 | .31995 |
| #1 | 6207.5 | 77472. | 3871.7 |
| #2 | 6228.9 | 77345. | 3889.3 |

Sample Name: 280-42158-A-4-C Acquired: 5/17/2013 19:47:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00159** | **90.633** | **.02816** | **.01655** | **.51715** | **.00322** | **.00467** | **7.6289** | **.00190** |
| Stddev | .00031 | .070 | .00178 | .00067 | .00055 | .00014 | .00051 | .0130 | .00011 |
| %RSD | 19.214 | .07742 | 6.3297 | 4.0638 | .10678 | 4.2337 | 10.954 | .17050 | 6.0543 |
| #1 | .00181 | 90.583 | .02943 | .01607 | .51676 | .00312 | .00503 | 7.6197 | .00198 |
| #2 | .00138 | 90.682 | .02690 | .01702 | .51754 | .00332 | .00431 | 7.6381 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04860** | **.08955** | **.18573** | **130.38** | **8.1646** | **.14307** | **18.985** | **8.2275** | **.00278** |
| Stddev | .00047 | .00017 | .00142 | .22 | .0318 | .00007 | .057 | .0220 | .00021 |
| %RSD | .96868 | .18431 | .76421 | .16585 | .38918 | .04623 | .30172 | .26681 | 7.7303 |
| #1 | .04894 | .08967 | .18673 | 130.22 | 8.1421 | .14302 | 19.025 | 8.2431 | .00263 |
| #2 | .04827 | .08943 | .18473 | 130.53 | 8.1871 | .14312 | 18.944 | 8.2120 | .00293 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55755** | **.09607** | **6.7979** | **.08224** | **1.0029** | **-.00322** | **.00645** | **2.1641** | **.00648** |
| Stddev | .00197 | .00064 | .0008 | .00159 | .0027 | .00004 | .00295 | .0262 | .00002 |
| %RSD | .35304 | .66239 | .01193 | 1.9338 | .27362 | 1.2340 | 45.627 | 1.2124 | .25209 |
| #1 | .55616 | .09652 | 6.7973 | .08336 | 1.0010 | -.00325 | .00854 | 2.1826 | .00649 |
| #2 | .55895 | .09562 | 6.7985 | .08111 | 1.0048 | -.00319 | .00437 | 2.1455 | .00647 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03409** | **.06642** | **.58872** | **-.00492** | **-.00774** | **.16784** | **.49927** | **.01447** |
| Stddev | .00028 | .00227 | .00455 | .00060 | .00281 | .00007 | .00136 | .00068 |
| %RSD | .81704 | 3.4200 | .77290 | 12.144 | 36.303 | .03932 | .27265 | 4.6740 |
| #1 | .03428 | .06481 | .59194 | -.00535 | -.00973 | .16780 | .50023 | .01400 |
| #2 | .03389 | .06803 | .58550 | -.00450 | -.00575 | .16789 | .49830 | .01495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5673.4** | **69928.** | **3528.6** |
| Stddev | 10.0 | 23. | 4.1 |
| %RSD | .17585 | .03262 | .11554 |
| #1 | 5680.4 | 69912. | 3525.7 |
| #2 | 5666.3 | 69944. | 3531.5 |

Sample Name: 280-42158-A-5-C Acquired: 5/17/2013 19:50:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00166** | **80.010** | **.02439** | **.01517** | **.43908** | **.00253** | **.00656** | **5.6155** | **.00164** |
| Stddev | .00042 | .103 | .00204 | .00006 | .00051 | .00008 | .00254 | .0054 | .00003 |
| %RSD | 25.338 | .12887 | 8.3663 | .38879 | .11715 | 3.3069 | 38.761 | .09550 | 1.8461 |
| #1 | .00196 | 80.083 | .02295 | .01521 | .43944 | .00248 | .00836 | 5.6193 | .00166 |
| #2 | .00137 | 79.938 | .02583 | .01513 | .43872 | .00259 | .00476 | 5.6117 | .00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04117** | **.09799** | **.14540** | **110.90** | **7.1177** | **.12079** | **15.744** | **4.6826** | **.00665** |
| Stddev | .00009 | .00040 | .00078 | .37 | .0293 | .00135 | .034 | .0653 | .00011 |
| %RSD | .21350 | .40397 | .53943 | .33113 | .41153 | 1.1159 | .21746 | 1.3934 | 1.5942 |
| #1 | .04123 | .09827 | .14595 | 111.16 | 7.0970 | .11984 | 15.768 | 4.6365 | .00658 |
| #2 | .04111 | .09771 | .14485 | 110.64 | 7.1384 | .12174 | 15.720 | 4.7287 | .00673 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56201** | **.08330** | **6.1442** | **.07645** | **.93730** | **-.00009** | **.00525** | **2.4967** | **.00694** |
| Stddev | .03145 | .00043 | .0126 | .00120 | .00319 | .00131 | .00175 | .0626 | .00040 |
| %RSD | 5.5955 | .51389 | .20439 | 1.5742 | .34007 | 1380.2 | 33.347 | 2.5072 | 5.6998 |
| #1 | .58424 | .08300 | 6.1531 | .07730 | .93955 | -.00102 | .00649 | 2.5410 | .00722 |
| #2 | .53977 | .08361 | 6.1353 | .07560 | .93504 | .00083 | .00401 | 2.4525 | .00666 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02796** | **.06121** | **.55116** | **-.00377** | **.02160** | **.14847** | **.43262** | **.01088** |
| Stddev | .00008 | .00135 | .00077 | .00205 | .00804 | .00017 | .00090 | .00389 |
| %RSD | .27077 | 2.2097 | .13927 | 54.283 | 37.201 | .11666 | .20744 | 35.751 |
| #1 | .02791 | .06026 | .55170 | -.00522 | .01592 | .14834 | .43325 | .00813 |
| #2 | .02801 | .06217 | .55062 | -.00233 | .02729 | .14859 | .43198 | .01364 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5552.9** | **68491.** | **3436.9** |
| Stddev | 15.9 | 147. | 6.0 |
| %RSD | .28586 | .21450 | .17327 |
| #1 | 5564.1 | 68595. | 3432.7 |
| #2 | 5541.7 | 68388. | 3441.2 |

Sample Name: 280-42158-A-6-C Acquired: 5/17/2013 19:52:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00248** | **95.995** | **.04951** | **.02901** | **.46131** | **.00468** | **.00546** | **13.677** | **.00168** |
| Stddev | .00017 | .056 | .00212 | .00019 | .00065 | .00005 | .00009 | .027 | .00011 |
| %RSD | 6.7804 | .05838 | 4.2880 | .65464 | .14089 | .97411 | 1.6849 | .20028 | 6.6011 |
| #1 | .00236 | 96.035 | .05101 | .02888 | .46085 | .00465 | .00552 | 13.696 | .00176 |
| #2 | .00260 | 95.956 | .04801 | .02915 | .46177 | .00471 | .00539 | 13.658 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07959** | **.13265** | **.56294** | **221.70** | **15.364** | **.21135** | **43.377** | W **12.540** | **.00317** |
| Stddev | .00040 | .00006 | .00109 | .86 | .013 | .00256 | .017 | .033 | .00012 |
| %RSD | .49772 | .04243 | .19284 | .38973 | .08601 | 1.2125 | .03837 | .26023 | 3.8051 |
| #1 | .07987 | .13261 | .56217 | 221.09 | 15.373 | .20954 | 43.389 | 12.517 | .00326 |
| #2 | .07931 | .13269 | .56371 | 222.31 | 15.354 | .21317 | 43.366 | 12.563 | .00309 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59281** | **.19430** | **5.0101** | **.08159** | **.09941** | **-.00453** | **.00039** | **1.6677** | **.00397** |
| Stddev | .01027 | .00015 | .0116 | .00053 | .00015 | .00230 | .00196 | .0115 | .00017 |
| %RSD | 1.7319 | .07782 | .23122 | .65131 | .15297 | 50.677 | 506.90 | .68757 | 4.3913 |
| #1 | .60007 | .19420 | 5.0019 | .08121 | .09930 | -.00291 | -.00100 | 1.6596 | .00409 |
| #2 | .58555 | .19441 | 5.0183 | .08196 | .09952 | -.00616 | .00177 | 1.6758 | .00385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06192** | **.10874** | **.23718** | **-.00688** | **.01245** | **.16718** | **.90479** | **.05114** |
| Stddev | .00031 | .00382 | .00116 | .00121 | .01611 | .00004 | .00003 | .00318 |
| %RSD | .50361 | 3.5092 | .48701 | 17.587 | 129.40 | .02459 | .00277 | 6.2098 |
| #1 | .06170 | .11144 | .23636 | -.00602 | .00106 | .16721 | .90481 | .04890 |
| #2 | .06214 | .10604 | .23800 | -.00773 | .02385 | .16715 | .90477 | .05339 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6347.3** | **78322.** | **3910.6** |
| Stddev | 4.5 | 145. | 23.1 |
| %RSD | .07130 | .18539 | .59004 |
| #1 | 6344.1 | 78219. | 3894.3 |
| #2 | 6350.5 | 78424. | 3926.9 |

Sample Name: 280-42158-A-7-C Acquired: 5/17/2013 19:54:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00234** | **95.001** | **.10282** | **.01606** | **.51084** | **.00322** | **.00687** | **8.3904** | **.00198** |
| Stddev | .00047 | .606 | .00326 | .00045 | .00313 | .00005 | .00171 | .0020 | .00030 |
| %RSD | 19.993 | .63746 | 3.1698 | 2.7960 | .61275 | 1.4159 | 24.871 | .02386 | 15.069 |
| #1 | .00201 | 94.573 | .10052 | .01638 | .50863 | .00325 | .00808 | 8.3889 | .00177 |
| #2 | .00267 | 95.430 | .10512 | .01575 | .51305 | .00318 | .00566 | 8.3918 | .00219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05258** | **.09411** | **.18389** | **153.93** | **8.5071** | **.15736** | **20.967** | W **11.338** | **.00227** |
| Stddev | .00003 | .00038 | .00040 | .19 | .0112 | .00128 | .029 | .044 | .00025 |
| %RSD | .05283 | .40730 | .21752 | .12147 | .13137 | .81230 | .13972 | .39178 | 10.899 |
| #1 | .05260 | .09384 | .18417 | 153.80 | 8.4992 | .15646 | 20.987 | 11.369 | .00209 |
| #2 | .05256 | .09438 | .18361 | 154.06 | 8.5150 | .15826 | 20.946 | 11.307 | .00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59584** | **.11013** | **6.8222** | **.09012** | **1.2476** | **-.00412** | **.00514** | **2.0745** | **.00715** |
| Stddev | .01025 | .00051 | .0117 | .00142 | .0059 | .00258 | .00042 | .0117 | .00101 |
| %RSD | 1.7202 | .46024 | .17122 | 1.5774 | .46895 | 62.502 | 8.1749 | .56516 | 14.172 |
| #1 | .60309 | .11049 | 6.8139 | .08912 | 1.2435 | -.00230 | .00484 | 2.0662 | .00643 |
| #2 | .58860 | .10977 | 6.8304 | .09113 | 1.2517 | -.00594 | .00543 | 2.0828 | .00787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04031** | **.07462** | **.57590** | **-.00649** | **-.03562** | **.16828** | **.52309** | **.01895** |
| Stddev | .00008 | .00025 | .00007 | .00185 | .00973 | .00172 | .00036 | .00161 |
| %RSD | .20178 | .33890 | .01297 | 28.484 | 27.319 | 1.0214 | .06972 | 8.4949 |
| #1 | .04026 | .07480 | .57595 | -.00518 | -.02874 | .16949 | .52334 | .02009 |
| #2 | .04037 | .07445 | .57585 | -.00780 | -.04251 | .16706 | .52283 | .01782 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5743.5** | **70526.** | **3541.1** |
| Stddev | 7.2 | 42. | 1.8 |
| %RSD | .12507 | .05985 | .05080 |
| #1 | 5738.5 | 70497. | 3542.4 |
| #2 | 5748.6 | 70556. | 3539.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 19:57:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **47.111** | **.00098** | **-.00027** | **.00111** | **-.00007** | **.99658** | **-.00285** | **-.00089** | **.00188** | **-.00015** | **-.00254** |
| Stddev | .00022 | .056 | .00384 | .00040 | .00022 | .00005 | .00470 | .00019 | .00004 | .00005 | .00023 | .00000 |
| %RSD | 81.984 | .11913 | 391.29 | 150.34 | 19.805 | 68.816 | .47202 | 6.5249 | 4.7935 | 2.8456 | 152.11 | .05650 |
| #1 | -.00012 | 47.150 | .00369 | .00002 | .00095 | -.00011 | .99990 | -.00272 | -.00092 | .00184 | .00001 | -.00255 |
| #2 | -.00043 | 47.071 | -.00173 | -.00055 | .00126 | -.00004 | .99325 | -.00298 | -.00086 | .00192 | -.00032 | -.00254 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.919** | **.35084** | **-.00098** | **.01327** | **.00037** | **-.00182** | F **284.83** | **.00152** | **.00515** | **.00035** | **4.9970** | **.00062** |
| Stddev | .108 | .03276 | .00034 | .00008 | .00003 | .00014 | 1.74 | .00022 | .00006 | .00045 | .0127 | .00135 |
| %RSD | .27651 | 9.3366 | 34.933 | .61671 | 7.2687 | 7.6568 | .61151 | 14.660 | 1.1107 | 127.24 | .25410 | 216.35 |
| #1 | 38.996 | .37401 | -.00074 | .01321 | .00039 | -.00172 | 286.07 | .00136 | .00511 | .00067 | 4.9880 | .00158 |
| #2 | 38.843 | .32768 | -.00122 | .01332 | .00035 | -.00191 | 283.60 | .00167 | .00519 | .00004 | 5.0060 | -.00033 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01020** | **-.00293** | **-.00033** | **.00043** | **5.2569** | **.00443** | **-.00198** | **10.157** | **-.00026** | **.00335** | **-.06760** |
| Stddev | .00526 | .00248 | .00023 | .00010 | .0018 | .00055 | .00040 | .001 | .00015 | .00021 | .00237 |
| %RSD | 51.517 | 84.504 | 69.410 | 22.145 | .03393 | 12.333 | 20.345 | .01203 | 58.098 | 6.3608 | 3.5008 |
| #1 | .01392 | -.00469 | -.00049 | .00036 | 5.2582 | .00404 | -.00226 | 10.158 | -.00037 | .00319 | -.06592 |
| #2 | .00649 | -.00118 | -.00017 | .00050 | 5.2556 | .00481 | -.00169 | 10.156 | -.00015 | .00350 | -.06927 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5212.6** | **65394.** | **3209.9** |
| Stddev | 38.0 | 319. | 1.5 |
| %RSD | .72919 | .48754 | .04595 |
| #1 | 5239.5 | 65168. | 3208.9 |
| #2 | 5185.8 | 65619. | 3211.0 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 19:59:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51280** | **.50449** | **.95832** | **.50850** | **.51749** | F **.43652** | **.00492** | **4.5900** | **.49355** | **.50304** | **.47495** | **.47394** |
| Stddev | .00081 | .00140 | .00260 | .00122 | .00006 | .00120 | .00128 | .0043 | .00021 | .00012 | .00042 | .00044 |
| %RSD | .15824 | .27652 | .27148 | .24049 | .01114 | .27596 | 26.052 | .09255 | .04242 | .02434 | .08858 | .09350 |
| #1 | .51222 | .50351 | .96016 | .50764 | .51745 | .43738 | .00582 | 4.5930 | .49340 | .50313 | .47465 | .47425 |
| #2 | .51337 | .50548 | .95648 | .50936 | .51753 | .43567 | .00401 | 4.5870 | .49370 | .50296 | .47525 | .47362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0032** | F **56.205** | F **1.1198** | **19.445** | **.49820** | **.46027** | **5.3058** | **.48631** | **1.0041** | **.99199** | **-.06079** | **.99298** |
| Stddev | .0233 | .253 | .0016 | .010 | .00017 | .00055 | .0315 | .00027 | .0002 | .00668 | .00209 | .00214 |
| %RSD | 1.1623 | .45086 | .13922 | .05091 | .03477 | .11965 | .59381 | .05617 | .02013 | .67308 | 3.4316 | .21588 |
| #1 | 1.9867 | 56.384 | 1.1209 | 19.452 | .49807 | .45988 | 5.3281 | .48612 | 1.0042 | .98727 | -.06227 | .99147 |
| #2 | 2.0196 | 56.026 | 1.1187 | 19.438 | .49832 | .46066 | 5.2835 | .48650 | 1.0039 | .99672 | -.05932 | .99450 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0150** | F **4.2016** | **.92917** | **.52520** | **.00347** | **.49331** | **.94684** | **.04086** | **.47780** | **.49480** | **.45942** |
| Stddev | .0076 | .0302 | .00636 | .00149 | .00070 | .00059 | .00502 | .04891 | .00119 | .00047 | .00105 |
| %RSD | .75031 | .71973 | .68490 | .28439 | 20.188 | .12045 | .53008 | 119.68 | .24918 | .09477 | .22879 |
| #1 | 1.0096 | 4.1802 | .92467 | .52626 | .00396 | .49374 | .94329 | .07545 | .47864 | .49514 | .45868 |
| #2 | 1.0204 | 4.2230 | .93367 | .52415 | .00297 | .49289 | .95039 | .00628 | .47696 | .49447 | .46017 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5283.8** | **65164.** | **3161.4** |
| Stddev | 5.2 | 5. | 5.5 |
| %RSD | .09750 | .00715 | .17295 |
| #1 | 5287.4 | 65160. | 3157.6 |
| #2 | 5280.1 | 65167. | 3165.3 |

Sample Name: CCB Acquired: 5/17/2013 20:02:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00144** | W **.02625** | **.00340** | **-.00105** | W **.00096** | **-.00003** | **.00177** | **-.00346** | **-.00018** | **.00013** | **-.00013** |
| Stddev | .00024 | .03269 | .00172 | .00116 | .00048 | .00011 | .00112 | .00321 | .00015 | .00029 | .00014 |
| %RSD | 16.779 | 124.51 | 50.431 | 110.55 | 49.471 | 311.75 | 62.954 | 92.962 | 83.320 | 218.37 | 108.29 |
| #1 | .00127 | .00314 | .00462 | -.00186 | .00130 | -.00011 | .00256 | -.00118 | -.00028 | -.00007 | -.00023 |
| #2 | .00161 | .04937 | .00219 | -.00023 | .00063 | .00004 | .00098 | -.00573 | -.00007 | .00034 | -.00003 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | .01800 | | | .00058 | | | | | | |
| Low Limit | -.00093 | -.01800 | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00139** | **.00933** | **.19025** | **-.00193** | **-.00285** | W **.00029** | **.00038** | **.06768** | **.00076** | **.00336** | **.00023** |
| Stddev | .00008 | .00468 | .05766 | .00158 | .00163 | .00007 | .00029 | .00172 | .00002 | .00066 | .00089 |
| %RSD | 5.4914 | 50.208 | 30.305 | 81.694 | 57.218 | 24.164 | 76.981 | 2.5378 | 2.6640 | 19.728 | 393.70 |
| #1 | -.00133 | .00602 | .14948 | -.00305 | -.00170 | .00024 | .00059 | .06647 | .00075 | .00289 | -.00040 |
| #2 | -.00144 | .01264 | .23102 | -.00082 | -.00400 | .00034 | .00017 | .06890 | .00078 | .00383 | .00086 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00136 | | | | | .00025 | | | | | |
| Low Limit | -.00136 | | | | | -.00025 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05946** | **.00298** | **-.00198** | **.00073** | **-.00145** | **-.00007** | **.00312** | **.00029** | **-.00154** | **.00713** | **.00048** |
| Stddev | .00433 | .00032 | .00229 | .00798 | .00077 | .00010 | .00094 | .00009 | .00036 | .03390 | .00040 |
| %RSD | 7.2769 | 10.903 | 115.40 | 1100.8 | 52.842 | 143.76 | 30.277 | 29.654 | 23.266 | 475.39 | 83.996 |
| #1 | -.06252 | .00321 | -.00360 | .00637 | -.00091 | -.00014 | .00378 | .00023 | -.00180 | -.01684 | .00019 |
| #2 | -.05640 | .00275 | -.00036 | -.00492 | -.00199 | .00000 | .00245 | .00035 | -.00129 | .03110 | .00077 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00223** | W **.00298** |
| Stddev | .00001 | .00054 |
| %RSD | .60458 | 18.218 |
| #1 | .00224 | .00260 |
| #2 | .00222 | .00336 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5414.5** | **66903.** | **3203.5** |
| Stddev | 18.6 | 385. | 12.6 |
| %RSD | .34379 | .57601 | .39276 |
| #1 | 5401.3 | 66630. | 3194.6 |
| #2 | 5427.6 | 67175. | 3212.4 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 20:04:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01138** | F **.17032** | **.01392** | **.09957** | **.01138** | **.00081** | **.10098** | **.19104** | **.00508** | **.01059** | **.00958** |
| Stddev | .00030 | .00285 | .00103 | .00044 | .00032 | .00006 | .00121 | .00209 | .00031 | .00001 | .00004 |
| %RSD | 2.6017 | 1.6705 | 7.4189 | .44575 | 2.8374 | 7.1921 | 1.2005 | 1.0915 | 6.0156 | .08300 | .43896 |
| #1 | .01159 | .17233 | .01319 | .09926 | .01115 | .00085 | .10012 | .19251 | .00486 | .01058 | .00961 |
| #2 | .01117 | .16831 | .01465 | .09988 | .01161 | .00077 | .10183 | .18956 | .00529 | .01060 | .00955 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01428** | F **.19232** | W **3.7169** | F **.00687** | **.22079** | F **.01743** | **.01844** | **1.1912** | **.03936** | **2.9034** | **.00965** |
| Stddev | .00018 | .00114 | .0106 | .00015 | .00373 | .00018 | .00000 | .0141 | .00025 | .0189 | .00075 |
| %RSD | 1.2866 | .59431 | .28484 | 2.2233 | 1.6879 | 1.0500 | .01147 | 1.1819 | .62406 | .65120 | 7.7412 |
| #1 | .01441 | .19151 | 3.7244 | .00676 | .22343 | .01756 | .01844 | 1.2011 | .03953 | 2.8901 | .01017 |
| #2 | .01415 | .19313 | 3.7094 | .00698 | .21816 | .01730 | .01844 | 1.1812 | .03919 | 2.9168 | .00912 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | .01000 | | | | | |
| Range | | 30.000% | 20.000% | -30.000% | | 30.000% | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06303** | F **.01313** | **.01594** | **.41279** | **.09099** | **.01062** | W **.01854** | **.01010** | **.01331** | **.06809** | **.01004** |
| Stddev | .00118 | .00230 | .00409 | .00354 | .00018 | .00001 | .00082 | .00002 | .00073 | .00630 | .00041 |
| %RSD | 1.8707 | 17.517 | 25.645 | .85726 | .20226 | .05850 | 4.4000 | .17008 | 5.4641 | 9.2455 | 4.0853 |
| #1 | -.06220 | .01476 | .01883 | .41029 | .09086 | .01062 | .01796 | .01009 | .01280 | .06364 | .01033 |
| #2 | -.06386 | .01151 | .01305 | .41529 | .09112 | .01061 | .01912 | .01012 | .01383 | .07254 | .00975 |
| Check ? | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | .01500 | | | | |
| Range | | 30.000% | | | | | 20.000% | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02270** | **.01693** |
| Stddev | .00004 | .00159 |
| %RSD | .19660 | 9.3715 |
| #1 | .02267 | .01805 |
| #2 | .02273 | .01581 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5345.4** | **66293.** | **3195.7** |
| Stddev | 9.1 | 366. | 18.2 |
| %RSD | .17059 | .55181 | .56894 |
| #1 | 5351.9 | 66035. | 3208.5 |
| #2 | 5339.0 | 66552. | 3182.8 |

Sample Name: 280-42158-A-8-C Acquired: 5/17/2013 20:06:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00280** | **93.806** | **.02738** | **.01950** | **.61143** | **.00324** | **.00239** | **8.4844** | **.00210** |
| Stddev | .00044 | .288 | .00301 | .00024 | .00360 | .00003 | .00084 | .0007 | .00003 |
| %RSD | 15.606 | .30689 | 10.980 | 1.2267 | .58883 | 1.0242 | 35.057 | .00850 | 1.2760 |
| #1 | .00311 | 94.010 | .02951 | .01933 | .61398 | .00321 | .00298 | 8.4849 | .00208 |
| #2 | .00249 | 93.603 | .02526 | .01967 | .60889 | .00326 | .00179 | 8.4839 | .00211 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05264** | **.09307** | **.22406** | **133.88** | **9.2162** | **.15502** | **18.644** | W **11.669** | **.00284** |
| Stddev | .00030 | .00030 | .00032 | .65 | .0454 | .00019 | .022 | .073 | .00007 |
| %RSD | .57175 | .32570 | .14376 | .48186 | .49266 | .12192 | .11701 | .62595 | 2.4284 |
| #1 | .05243 | .09285 | .22429 | 134.34 | 9.1841 | .15489 | 18.659 | 11.617 | .00289 |
| #2 | .05286 | .09328 | .22383 | 133.43 | 9.2483 | .15515 | 18.628 | 11.720 | .00279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59849** | **.09559** | **7.7638** | **.08076** | **1.8672** | **-.00299** | **.00480** | **2.8304** | **.01420** |
| Stddev | .00649 | .00007 | .0159 | .00094 | .0067 | .00124 | .00486 | .0007 | .00080 |
| %RSD | 1.0842 | .07459 | .20428 | 1.1633 | .36103 | 41.607 | 101.22 | .02473 | 5.6316 |
| #1 | .60308 | .09554 | 7.7526 | .08009 | 1.8719 | -.00211 | .00137 | 2.8309 | .01476 |
| #2 | .59391 | .09564 | 7.7750 | .08142 | 1.8624 | -.00387 | .00824 | 2.8299 | .01363 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04019** | **.07143** | **.57813** | **-.00649** | **-.00100** | **.17179** | **.54076** | **.01366** |
| Stddev | .00018 | .00041 | .00430 | .00162 | .00543 | .00033 | .00108 | .00121 |
| %RSD | .45721 | .57737 | .74299 | 24.921 | 543.49 | .19414 | .20062 | 8.8794 |
| #1 | .04032 | .07114 | .57509 | -.00763 | .00284 | .17156 | .54000 | .01452 |
| #2 | .04006 | .07172 | .58116 | -.00535 | -.00484 | .17203 | .54153 | .01280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5647.5** | **69236.** | **3467.3** |
| Stddev | 6.1 | 121. | .6 |
| %RSD | .10750 | .17491 | .01768 |
| #1 | 5643.2 | 69321. | 3467.8 |
| #2 | 5651.8 | 69150. | 3466.9 |

Sample Name: 280-42158-A-9-C Acquired: 5/17/2013 20:09:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00144** | **58.129** | **.03795** | **.02388** | **.25443** | **.00372** | **.00474** | **14.793** | **.00095** |
| Stddev | .00032 | .387 | .00007 | .00031 | .00221 | .00001 | .00329 | .079 | .00003 |
| %RSD | 22.608 | .66516 | .19307 | 1.2859 | .86665 | .14810 | 69.352 | .53173 | 3.3393 |
| #1 | .00166 | 57.856 | .03800 | .02410 | .25287 | .00373 | .00242 | 14.737 | .00098 |
| #2 | .00121 | 58.402 | .03790 | .02367 | .25599 | .00372 | .00707 | 14.849 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05027** | **.07576** | **.20940** | **131.17** | **10.592** | **.12817** | **24.423** | **8.6588** | **.00445** |
| Stddev | .00030 | .00031 | .00031 | .83 | .101 | .00091 | .003 | .0446 | .00028 |
| %RSD | .59707 | .41293 | .14672 | .63577 | .95301 | .70715 | .01065 | .51493 | 6.2778 |
| #1 | .05049 | .07598 | .20918 | 130.58 | 10.520 | .12881 | 24.425 | 8.6903 | .00425 |
| #2 | .05006 | .07554 | .20961 | 131.76 | 10.663 | .12753 | 24.421 | 8.6272 | .00464 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64580** | **.10915** | **4.3725** | **.04861** | **.24570** | **-.00454** | **-.00021** | **1.8484** | **.00377** |
| Stddev | .00038 | .00059 | .0211 | .00093 | .00684 | .00076 | .00045 | .0310 | .00016 |
| %RSD | .05822 | .53834 | .48342 | 1.9228 | 2.7823 | 16.790 | 215.12 | 1.6791 | 4.2659 |
| #1 | .64607 | .10957 | 4.3874 | .04927 | .25053 | -.00508 | -.00053 | 1.8264 | .00388 |
| #2 | .64554 | .10874 | 4.3575 | .04795 | .24086 | -.00400 | .00011 | 1.8703 | .00365 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05133** | **.09140** | **.27013** | **-.00688** | W **-.09937** | **.10856** | **.38550** | **.03011** |
| Stddev | .00004 | .00119 | .00162 | .00130 | .04585 | .00063 | .00027 | .00100 |
| %RSD | .07505 | 1.3067 | .59998 | 18.857 | 46.142 | .58216 | .07131 | 3.3186 |
| #1 | .05130 | .09224 | .27127 | -.00780 | -.13179 | .10901 | .38531 | .03082 |
| #2 | .05136 | .09055 | .26898 | -.00596 | -.06695 | .10811 | .38569 | .02941 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6216.2** | **77546.** | **3824.0** |
| Stddev | 17.5 | 3. | 28.9 |
| %RSD | .28196 | .00385 | .75497 |
| #1 | 6228.6 | 77548. | 3844.4 |
| #2 | 6203.8 | 77544. | 3803.6 |

Sample Name: 280-42158-A-10-C Acquired: 5/17/2013 20:11:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00333** | **97.689** | **.03306** | **.02058** | **.60497** | **.00309** | **.00756** | **7.7172** | **.00173** |
| Stddev | .00028 | .546 | .00251 | .00090 | .00043 | .00011 | .00199 | .0465 | .00007 |
| %RSD | 8.4211 | .55850 | 7.5982 | 4.3779 | .07032 | 3.6820 | 26.368 | .60226 | 4.0415 |
| #1 | .00353 | 98.075 | .03484 | .01994 | .60527 | .00301 | .00897 | 7.7501 | .00169 |
| #2 | .00313 | 97.304 | .03129 | .02122 | .60467 | .00317 | .00615 | 7.6843 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05561** | **.09498** | **.14084** | **147.48** | **9.7507** | **.15222** | **20.035** | W **14.799** | **.00205** |
| Stddev | .00007 | .00005 | .00098 | .11 | .0647 | .00050 | .045 | .024 | .00041 |
| %RSD | .12836 | .05053 | .69924 | .07638 | .66395 | .32932 | .22659 | .16361 | 19.725 |
| #1 | .05566 | .09494 | .14014 | 147.41 | 9.7964 | .15187 | 20.003 | 14.816 | .00177 |
| #2 | .05556 | .09501 | .14153 | 147.56 | 9.7049 | .15258 | 20.067 | 14.782 | .00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51205** | **.10044** | **7.4006** | **.07534** | **1.6020** | **-.00164** | **.00099** | **2.8308** | **.00794** |
| Stddev | .00810 | .00039 | .0011 | .00091 | .0045 | .00119 | .00177 | .0496 | .00106 |
| %RSD | 1.5822 | .38519 | .01504 | 1.2015 | .27783 | 72.253 | 178.94 | 1.7533 | 13.351 |
| #1 | .50632 | .10072 | 7.4014 | .07470 | 1.5988 | -.00080 | -.00026 | 2.8659 | .00719 |
| #2 | .51778 | .10017 | 7.3999 | .07598 | 1.6051 | -.00248 | .00224 | 2.7958 | .00869 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03669** | **.07769** | **.55824** | **-.00771** | **-.00501** | **.17983** | **.54523** | **.01364** |
| Stddev | .00028 | .00113 | .00993 | .00226 | .00575 | .00012 | .00211 | .00069 |
| %RSD | .76586 | 1.4570 | 1.7789 | 29.295 | 114.64 | .06414 | .38732 | 5.0656 |
| #1 | .03689 | .07849 | .56527 | -.00611 | -.00095 | .17992 | .54374 | .01316 |
| #2 | .03650 | .07689 | .55122 | -.00930 | -.00908 | .17975 | .54673 | .01413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5738.6** | **71067.** | **3519.7** |
| Stddev | 32.9 | 174. | 36.6 |
| %RSD | .57359 | .24472 | 1.0398 |
| #1 | 5715.3 | 71190. | 3493.8 |
| #2 | 5761.9 | 70944. | 3545.6 |

Sample Name: 280-42158-A-11-C Acquired: 5/17/2013 20:14:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00185** | **107.71** | **.02839** | **.02433** | **.58913** | **.00397** | **.00542** | **24.902** | **.00214** |
| Stddev | .00052 | .60 | .00192 | .00056 | .00234 | .00004 | .00096 | .182 | .00008 |
| %RSD | 27.785 | .55351 | 6.7759 | 2.2877 | .39700 | .91324 | 17.698 | .73225 | 3.9660 |
| #1 | .00222 | 108.13 | .02703 | .02394 | .59078 | .00399 | .00610 | 25.031 | .00208 |
| #2 | .00149 | 107.29 | .02975 | .02473 | .58748 | .00394 | .00474 | 24.773 | .00220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05920** | **.10813** | **.15441** | **141.77** | **10.358** | **.16974** | **22.568** | **8.2252** | **.00186** |
| Stddev | .00037 | .00032 | .00030 | .69 | .035 | .00177 | .008 | .0718 | .00007 |
| %RSD | .62041 | .29417 | .19118 | .48530 | .34208 | 1.0414 | .03556 | .87317 | 3.5453 |
| #1 | .05894 | .10790 | .15421 | 141.28 | 10.333 | .17099 | 22.562 | 8.2760 | .00191 |
| #2 | .05946 | .10835 | .15462 | 142.25 | 10.383 | .16849 | 22.574 | 8.1744 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58535** | **.11443** | **6.6680** | **.10570** | **1.7295** | **-.00313** | **.00620** | **2.3641** | **.00857** |
| Stddev | .01627 | .00045 | .0169 | .00130 | .0064 | .00017 | .00036 | .0108 | .00002 |
| %RSD | 2.7802 | .39668 | .25300 | 1.2310 | .36955 | 5.5668 | 5.7938 | .45634 | .28396 |
| #1 | .59686 | .11475 | 6.6560 | .10662 | 1.7250 | -.00300 | .00595 | 2.3717 | .00859 |
| #2 | .57385 | .11411 | 6.6799 | .10478 | 1.7340 | -.00325 | .00646 | 2.3565 | .00855 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07424** | **.07266** | **.64336** | **-.00657** | **-.03862** | **.19399** | **.53790** | **.01309** |
| Stddev | .00023 | .00033 | .00053 | .00389 | .00949 | .00094 | .00214 | .00091 |
| %RSD | .30390 | .45928 | .08241 | 59.219 | 24.581 | .48434 | .39829 | 6.9197 |
| #1 | .07440 | .07290 | .64299 | -.00932 | -.03191 | .19332 | .53638 | .01373 |
| #2 | .07408 | .07243 | .64374 | -.00382 | -.04534 | .19465 | .53941 | .01245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5686.2** | **70505.** | **3551.3** |
| Stddev | 7.1 | 92. | 15.8 |
| %RSD | .12486 | .12999 | .44568 |
| #1 | 5691.2 | 70440. | 3540.1 |
| #2 | 5681.2 | 70570. | 3562.5 |

Sample Name: 280-42158-A-12-C Acquired: 5/17/2013 20:16:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00219** | **80.760** | **.04184** | **.02500** | **.31147** | **.00332** | **.00778** | **11.773** | **.00117** |
| Stddev | .00010 | .284 | .00075 | .00004 | .00162 | .00010 | .00036 | .079 | .00004 |
| %RSD | 4.5273 | .35107 | 1.7845 | .14630 | .52090 | 3.0612 | 4.5948 | .66774 | 3.8058 |
| #1 | .00226 | 80.960 | .04236 | .02503 | .31262 | .00325 | .00803 | 11.829 | .00120 |
| #2 | .00212 | 80.559 | .04131 | .02498 | .31032 | .00340 | .00753 | 11.718 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07043** | **.11239** | **.24043** | **180.40** | **12.768** | **.19197** | **38.079** | **8.7018** | **.00533** |
| Stddev | .00030 | .00025 | .00036 | .11 | .086 | .00149 | .017 | .0270 | .00004 |
| %RSD | .42742 | .22658 | .15142 | .05921 | .67693 | .77655 | .04394 | .31012 | .72462 |
| #1 | .07021 | .11221 | .24018 | 180.33 | 12.829 | .19092 | 38.067 | 8.7208 | .00531 |
| #2 | .07064 | .11257 | .24069 | 180.48 | 12.707 | .19302 | 38.090 | 8.6827 | .00536 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68229** | **.15997** | **4.8426** | **.05109** | **.12506** | **-.00397** | **.00070** | **2.3382** | **.00533** |
| Stddev | .00871 | .00004 | .0131 | .00026 | .00024 | .00039 | .00254 | .0097 | .00020 |
| %RSD | 1.2765 | .02346 | .27129 | .50067 | .19226 | 9.7645 | 361.60 | .41479 | 3.7817 |
| #1 | .68845 | .16000 | 4.8333 | .05127 | .12489 | -.00369 | .00249 | 2.3451 | .00518 |
| #2 | .67613 | .15995 | 4.8518 | .05091 | .12523 | -.00424 | -.00109 | 2.3314 | .00547 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05086** | **.09224** | **.49514** | **-.00542** | **.00497** | **.14502** | **.56151** | **.04839** |
| Stddev | .00004 | .00113 | .00012 | .00028 | .06410 | .00025 | .00054 | .00099 |
| %RSD | .07071 | 1.2296 | .02514 | 5.2143 | 1289.6 | .17116 | .09635 | 2.0374 |
| #1 | .05083 | .09143 | .49505 | -.00562 | -.04035 | .14520 | .56113 | .04909 |
| #2 | .05088 | .09304 | .49523 | -.00522 | .05030 | .14485 | .56189 | .04769 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6047.5** | **75366.** | **3707.4** |
| Stddev | 5.0 | 26. | 5.8 |
| %RSD | .08289 | .03384 | .15771 |
| #1 | 6044.0 | 75348. | 3703.3 |
| #2 | 6051.1 | 75384. | 3711.5 |

Sample Name: 280-42158-A-13-C Acquired: 5/17/2013 20:19:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00186** | **94.808** | **.03333** | **.01881** | **.51586** | **.00310** | **.00698** | **8.3949** | **.00182** |
| Stddev | .00029 | .757 | .00149 | .00050 | .00115 | .00015 | .00008 | .0561 | .00017 |
| %RSD | 15.302 | .79836 | 4.4856 | 2.6752 | .22323 | 4.6934 | 1.1078 | .66776 | 9.4037 |
| #1 | .00166 | 94.273 | .03438 | .01917 | .51505 | .00320 | .00703 | 8.3553 | .00194 |
| #2 | .00207 | 95.343 | .03227 | .01846 | .51668 | .00299 | .00692 | 8.4345 | .00170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05012** | **.09327** | **.15169** | **138.45** | **9.1069** | **.15107** | **19.476** | **8.1823** | **.00311** |
| Stddev | .00003 | .00028 | .00002 | .02 | .0259 | .00073 | .005 | .0672 | .00015 |
| %RSD | .06481 | .30428 | .01507 | .01799 | .28433 | .48595 | .02470 | .82112 | 4.6826 |
| #1 | .05014 | .09307 | .15170 | 138.43 | 9.0886 | .15055 | 19.473 | 8.1348 | .00322 |
| #2 | .05010 | .09347 | .15167 | 138.47 | 9.1252 | .15159 | 19.480 | 8.2298 | .00301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52824** | **.09674** | **6.7424** | **.08939** | **1.4546** | **-.00151** | **.00522** | **2.7707** | **.00644** |
| Stddev | .00402 | .00016 | .0277 | .00093 | .0151 | .00148 | .00072 | .0730 | .00002 |
| %RSD | .76149 | .16362 | .41002 | 1.0374 | 1.0387 | 97.514 | 13.768 | 2.6335 | .24008 |
| #1 | .53108 | .09662 | 6.7229 | .08873 | 1.4440 | -.00256 | .00573 | 2.7191 | .00645 |
| #2 | .52539 | .09685 | 6.7620 | .09004 | 1.4653 | -.00047 | .00471 | 2.8223 | .00643 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04105** | **.07288** | **.52532** | **-.00533** | **.02286** | **.17216** | **.52694** | **.01651** |
| Stddev | .00021 | .00058 | .00328 | .00079 | .02149 | .00061 | .00004 | .00164 |
| %RSD | .51757 | .80257 | .62531 | 14.866 | 94.008 | .35234 | .00782 | 9.9337 |
| #1 | .04089 | .07329 | .52764 | -.00477 | .00767 | .17259 | .52691 | .01766 |
| #2 | .04120 | .07246 | .52300 | -.00589 | .03806 | .17174 | .52697 | .01535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5691.6** | **69627.** | **3460.6** |
| Stddev | 29.5 | 104. | 4.4 |
| %RSD | .51785 | .14974 | .12773 |
| #1 | 5670.7 | 69700. | 3463.7 |
| #2 | 5712.4 | 69553. | 3457.4 |

Sample Name: 280-42158-A-14-C  Acquired: 5/17/2013 20:21:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00195** | **96.704** | **.02989** | **.01997** | **.58382** | **.00327** | **.00850** | **11.886** | **.00208** |
| Stddev | .00019 | .066 | .00361 | .00032 | .00106 | .00010 | .00048 | .006 | .00034 |
| %RSD | 9.9443 | .06839 | 12.073 | 1.6243 | .18227 | 3.0239 | 5.6460 | .05367 | 16.281 |
| #1 | .00209 | 96.751 | .03244 | .01974 | .58457 | .00334 | .00884 | 11.881 | .00232 |
| #2 | .00181 | 96.658 | .02734 | .02020 | .58307 | .00320 | .00816 | 11.890 | .00184 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05115** | **.11693** | **.13691** | **143.58** | **9.2054** | **.14752** | **19.911** | W **11.545** | **.00788** |
| Stddev | .00057 | .00007 | .00047 | .46 | .0337 | .00100 | .052 | .123 | .00010 |
| %RSD | 1.1173 | .05971 | .34336 | .32049 | .36598 | .67691 | .25878 | 1.0657 | 1.2675 |
| #1 | .05155 | .11688 | .13724 | 143.25 | 9.2293 | .14823 | 19.947 | 11.458 | .00795 |
| #2 | .05075 | .11698 | .13658 | 143.90 | 9.1816 | .14682 | 19.874 | 11.632 | .00781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57597** | **.09510** | **7.1293** | **.09236** | **1.5294** | **-.00267** | **.00322** | **2.9311** | **.00817** |
| Stddev | .00034 | .00023 | .0011 | .00063 | .0001 | .00133 | .00144 | .0410 | .00086 |
| %RSD | .05915 | .24386 | .01574 | .67840 | .00998 | 49.999 | 44.802 | 1.3979 | 10.532 |
| #1 | .57572 | .09527 | 7.1301 | .09280 | 1.5296 | -.00361 | .00424 | 2.9021 | .00756 |
| #2 | .57621 | .09494 | 7.1285 | .09192 | 1.5293 | -.00172 | .00220 | 2.9601 | .00878 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05404** | **.07594** | **.74240** | **-.00734** | **-.00474** | **.17890** | **.54271** | **.01318** |
| Stddev | .00009 | .00219 | .00363 | .00048 | .00631 | .00098 | .00162 | .00123 |
| %RSD | .17447 | 2.8870 | .48896 | 6.5549 | 133.03 | .54836 | .29934 | 9.3269 |
| #1 | .05397 | .07439 | .73983 | -.00768 | -.00028 | .17959 | .54386 | .01405 |
| #2 | .05410 | .07749 | .74497 | -.00700 | -.00920 | .17821 | .54156 | .01231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5620.8** | **69596.** | **3462.1** |
| Stddev | 5.4 | 234. | 10.8 |
| %RSD | .09671 | .33660 | .31055 |
| #1 | 5624.7 | 69762. | 3454.5 |
| #2 | 5617.0 | 69431. | 3469.7 |

Sample Name: 280-42158-A-15-C Acquired: 5/17/2013 20:23:55 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **100.76** | **.05093** | **.02471** | **.35192** | **.00441** | **.00561** | **13.109** | **.00154** |
| Stddev | .00044 | .71 | .00107 | .00063 | .00202 | .00001 | .00170 | .085 | .00002 |
| %RSD | 22.428 | .70955 | 2.1012 | 2.5622 | .57477 | .26222 | 30.228 | .64744 | 1.2316 |
| #1 | .00228 | 100.26 | .05018 | .02516 | .35049 | .00442 | .00681 | 13.049 | .00155 |
| #2 | .00166 | 101.27 | .05169 | .02426 | .35335 | .00440 | .00441 | 13.169 | .00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08257** | **.14361** | **.39511** | **215.46** | **13.838** | **.24281** | **45.703** | **8.9529** | **.00508** |
| Stddev | .00018 | .00024 | .00137 | .25 | .069 | .00057 | .065 | .1633 | .00009 |
| %RSD | .21766 | .16659 | .34662 | .11681 | .49977 | .23617 | .14286 | 1.8244 | 1.7722 |
| #1 | .08244 | .14344 | .39608 | 215.28 | 13.789 | .24240 | 45.749 | 8.8374 | .00514 |
| #2 | .08270 | .14377 | .39415 | 215.64 | 13.887 | .24321 | 45.657 | 9.0684 | .00501 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.63290** | **.19016** | **5.7074** | **.07334** | **.25141** | **-.00241** | **.00435** | **1.9695** | **.00479** |
| Stddev | .00276 | .00018 | .0176 | .00094 | .00190 | .00027 | .00377 | .0016 | .00001 |
| %RSD | .43622 | .09677 | .30880 | 1.2874 | .75561 | 11.204 | 86.657 | .08332 | .25428 |
| #1 | .63095 | .19003 | 5.6950 | .07267 | .25275 | -.00260 | .00702 | 1.9683 | .00480 |
| #2 | .63485 | .19029 | 5.7199 | .07401 | .25007 | -.00222 | .00169 | 1.9707 | .00479 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05647** | **.11085** | **.28037** | **-.00397** | **.00938** | **.16660** | **.67956** | **.03653** |
| Stddev | .00026 | .00180 | .00192 | .00116 | .02491 | .00140 | .00218 | .00084 |
| %RSD | .46479 | 1.6217 | .68376 | 29.171 | 265.52 | .83947 | .32062 | 2.2917 |
| #1 | .05629 | .11212 | .28173 | -.00315 | -.00823 | .16759 | .68110 | .03712 |
| #2 | .05666 | .10958 | .27902 | -.00479 | .02699 | .16561 | .67802 | .03594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6108.5** | **75488.** | **3752.6** |
| Stddev | 9.6 | 298. | 35.5 |
| %RSD | .15760 | .39533 | .94635 |
| #1 | 6101.7 | 75699. | 3777.7 |
| #2 | 6115.3 | 75277. | 3727.5 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 20:26:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00067** | **46.569** | **-.00031** | **-.00058** | **.00118** | **-.00010** | **.98767** | **-.00408** | **-.00063** | **.00209** | **-.00007** | **-.00302** |
| Stddev | .00011 | .267 | .00003 | .00059 | .00046 | .00005 | .00339 | .00467 | .00001 | .00004 | .00030 | .00034 |
| %RSD | 16.643 | .57369 | 8.0854 | 101.95 | 38.687 | 53.078 | .34324 | 114.51 | 2.1879 | 1.8280 | 403.67 | 11.283 |
| #1 | -.00059 | 46.758 | -.00033 | -.00016 | .00086 | -.00013 | .99007 | -.00078 | -.00064 | .00212 | .00014 | -.00278 |
| #2 | -.00075 | 46.381 | -.00030 | -.00099 | .00150 | -.00006 | .98527 | -.00738 | -.00062 | .00206 | -.00028 | -.00326 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.501** | **.34351** | **-.00409** | **.01141** | **.00042** | **-.00160** | F **282.94** | **.00181** | **.00574** | **.00177** | **4.9809** | **.00364** |
| Stddev | .286 | .03379 | .00132 | .00280 | .00012 | .00026 | 2.25 | .00037 | .00233 | .00090 | .0117 | .00380 |
| %RSD | .74290 | 9.8374 | 32.352 | 24.569 | 28.504 | 16.563 | .79493 | 20.702 | 40.642 | 50.860 | .23405 | 104.37 |
| #1 | 38.703 | .31962 | -.00502 | .00943 | .00034 | -.00141 | 284.53 | .00154 | .00409 | .00241 | 4.9891 | .00633 |
| #2 | 38.299 | .36741 | -.00315 | .01340 | .00051 | -.00178 | 281.35 | .00207 | .00740 | .00113 | 4.9726 | .00095 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01131** | **.01972** | **-.00122** | **.00036** | **5.2246** | **.00381** | **-.00211** | **9.9797** | **-.00074** | **.00260** | **-.06984** |
| Stddev | .00117 | .01699 | .00102 | .00018 | .0125 | .00040 | .00031 | .0298 | .00012 | .00043 | .00009 |
| %RSD | 10.384 | 86.158 | 83.446 | 49.328 | .23898 | 10.401 | 14.497 | .29845 | 16.370 | 16.670 | .13329 |
| #1 | .01214 | .00771 | -.00050 | .00024 | 5.2158 | .00409 | -.00233 | 10.001 | -.00065 | .00230 | -.06991 |
| #2 | .01048 | .03174 | -.00195 | .00049 | 5.2334 | .00353 | -.00189 | 9.9586 | -.00082 | .00291 | -.06978 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5160.2** | **64198.** | **3144.9** |
| Stddev | 4.4 | 154. | 23.0 |
| %RSD | .08440 | .23951 | .73114 |
| #1 | 5157.1 | 64306. | 3128.7 |
| #2 | 5163.3 | 64089. | 3161.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 20:28:46 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50955** | F **.59537** | **.96649** | **.50792** | **.51311** | F **.43124** | **.00905** | **4.5861** | **.49474** | **.50375** | **.47549** | **.47212** |
| Stddev | .00024 | .00226 | .00180 | .00088 | .00152 | .00076 | .00074 | .0170 | .00049 | .00267 | .00094 | .00104 |
| %RSD | .04669 | .37916 | .18641 | .17347 | .29635 | .17584 | 8.1526 | .37011 | .09978 | .53063 | .19817 | .21970 |
| #1 | .50938 | .59696 | .96522 | .50730 | .51204 | .43071 | .00957 | 4.5981 | .49440 | .50564 | .47483 | .47139 |
| #2 | .50972 | .59377 | .96776 | .50854 | .51419 | .43178 | .00853 | 4.5741 | .49509 | .50186 | .47616 | .47285 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | .50000 | | | | | | |
| Range | | 10.000% | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1483** | F **56.398** | F **1.1189** | **19.400** | **.50603** | **.46438** | **5.2961** | **.48790** | **1.0157** | **.99017** | **-.05921** | **.99766** |
| Stddev | .0145 | .168 | .0037 | .012 | .00077 | .00112 | .0109 | .00206 | .0065 | .00661 | .00049 | .00366 |
| %RSD | .67327 | .29783 | .33355 | .06218 | .15206 | .24173 | .20484 | .42132 | .64319 | .66780 | .83040 | .36667 |
| #1 | 2.1585 | 56.279 | 1.1163 | 19.392 | .50549 | .46517 | 5.3038 | .48935 | 1.0204 | .99484 | -.05886 | 1.0002 |
| #2 | 2.1380 | 56.516 | 1.1216 | 19.409 | .50657 | .46359 | 5.2884 | .48644 | 1.0111 | .98549 | -.05956 | .99507 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0183** | F **4.2273** | **.93079** | **.52226** | **.00422** | **.49033** | **.95338** | **.00689** | **.47649** | **.49226** | **.46192** |
| Stddev | .0037 | .0001 | .00327 | .00049 | .00138 | .00200 | .00361 | .03162 | .00117 | .00132 | .00173 |
| %RSD | .35957 | .00330 | .35096 | .09369 | 32.546 | .40867 | .37820 | 459.18 | .24546 | .26788 | .37458 |
| #1 | 1.0209 | 4.2272 | .93310 | .52191 | .00520 | .48891 | .95593 | .02924 | .47567 | .49319 | .46314 |
| #2 | 1.0157 | 4.2274 | .92848 | .52260 | .00325 | .49175 | .95083 | -.01547 | .47732 | .49133 | .46070 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5346.7** | **65967.** | **3153.5** |
| Stddev | 2.5 | 216. | 3.1 |
| %RSD | .04741 | .32785 | .09828 |
| #1 | 5348.5 | 65814. | 3151.3 |
| #2 | 5344.9 | 66120. | 3155.7 |

Sample Name: CCB Acquired: 5/17/2013 20:31:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00097** | F **.09123** | **.00239** | **-.00140** | W **.00084** | **-.00005** | **.00411** | **.00764** | **-.00003** | **.00030** | **.00012** |
| Stddev | .00045 | .00020 | .00192 | .00000 | .00023 | .00028 | .00145 | .00383 | .00012 | .00014 | .00001 |
| %RSD | 46.116 | .21465 | 80.252 | .01495 | 27.530 | 598.17 | 35.331 | 50.123 | 438.50 | 48.794 | 5.6091 |
| #1 | .00129 | .09137 | .00103 | -.00140 | .00068 | .00015 | .00309 | .01035 | -.00011 | .00019 | .00011 |
| #2 | .00065 | .09110 | .00375 | -.00140 | .00101 | -.00024 | .00514 | .00493 | .00006 | .00040 | .00012 |
| Check ? | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | .03600 | | | .00058 | | | | | | |
| Low Limit | -.00093 | -.03600 | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00085** | F **.13888** | **.16585** | **-.00169** | F **.02653** | F **.00907** | **.00049** | **.05844** | **.00062** | **.00790** | **-.00005** |
| Stddev | .00007 | .00378 | .04995 | .00024 | .00186 | .00008 | .00019 | .00467 | .00019 | .00011 | .00172 |
| %RSD | 8.3227 | 2.7235 | 30.119 | 13.875 | 7.0152 | .93342 | 39.336 | 7.9960 | 31.045 | 1.3480 | 3216.6 |
| #1 | -.00090 | .13620 | .13053 | -.00186 | .02521 | .00913 | .00035 | .06174 | .00076 | .00798 | .00116 |
| #2 | -.00080 | .14155 | .20117 | -.00153 | .02785 | .00901 | .00063 | .05513 | .00048 | .00783 | -.00127 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | | | .02140 | .00051 | | | | | |
| Low Limit | | -.04400 | | | -.02140 | -.00051 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05802** | W **.00434** | **.00250** | **.00788** | **-.00152** | **-.00005** | **-.00029** | W **.00079** | **-.00071** | F **.05169** | **.00036** |
| Stddev | .00052 | .00191 | .00381 | .02922 | .00061 | .00004 | .00117 | .00015 | .00017 | .01588 | .00014 |
| %RSD | .90115 | 44.037 | 152.11 | 371.05 | 40.347 | 71.171 | 408.13 | 19.461 | 23.417 | 30.726 | 39.067 |
| #1 | -.05765 | .00569 | -.00019 | .02854 | -.00196 | -.00008 | -.00111 | .00090 | -.00083 | .04046 | .00046 |
| #2 | -.05839 | .00299 | .00520 | -.01279 | -.00109 | -.00003 | .00054 | .00068 | -.00059 | .06292 | .00026 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .00314 | | | | | | .00060 | | .05000 | |
| Low Limit | | -.00314 | | | | | | -.00060 | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00354** | F **.00713** |
| Stddev | .00002 | .00069 |
| %RSD | .50536 | 9.7337 |
| #1 | .00356 | .00664 |
| #2 | .00353 | .00762 |
| Check ? | Chk Pass | Chk Fail |
| High Limit | | .00476 |
| Low Limit | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5396.1** | **67610.** | **3220.6** |
| Stddev | 32.9 | 31. | 4.8 |
| %RSD | .60971 | .04534 | .14957 |
| #1 | 5419.3 | 67631. | 3217.2 |
| #2 | 5372.8 | 67588. | 3224.0 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 20:33:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01090** | F **.16056** | **.01332** | **.09988** | **.01086** | **.00095** | **.10154** | **.19030** | **.00520** | **.01028** | **.00974** |
| Stddev | .00022 | .00792 | .00030 | .00024 | .00002 | .00007 | .00115 | .00340 | .00018 | .00009 | .00018 |
| %RSD | 2.0330 | 4.9353 | 2.2602 | .23777 | .15093 | 7.3865 | 1.1311 | 1.7887 | 3.5242 | .88411 | 1.8245 |
| #1 | .01074 | .16616 | .01310 | .09971 | .01087 | .00100 | .10235 | .18789 | .00533 | .01022 | .00987 |
| #2 | .01105 | .15496 | .01353 | .10005 | .01085 | .00090 | .10072 | .19270 | .00507 | .01035 | .00962 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01334** | F **.18248** | W **3.7583** | **.00995** | **.21971** | F **.01693** | **.01853** | **1.1803** | **.03987** | **2.9214** | **.00959** |
| Stddev | .00022 | .00158 | .0516 | .00041 | .00443 | .00024 | .00005 | .0153 | .00004 | .0021 | .00007 |
| %RSD | 1.6434 | .86708 | 1.3728 | 4.1011 | 2.0144 | 1.4046 | .26593 | 1.2939 | .09831 | .07269 | .68941 |
| #1 | .01350 | .18136 | 3.7948 | .01023 | .22284 | .01710 | .01849 | 1.1911 | .03984 | 2.9229 | .00963 |
| #2 | .01319 | .18360 | 3.7218 | .00966 | .21658 | .01677 | .01856 | 1.1695 | .03990 | 2.9199 | .00954 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | | | .01000 | | | | | |
| Range | | 30.000% | 20.000% | | | 30.000% | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06034** | **.01169** | F **.01965** | **.43432** | **.09186** | **.01056** | **.01750** | **.01040** | **.01359** | W **.07283** | **.01024** |
| Stddev | .00217 | .00116 | .00582 | .01498 | .00048 | .00016 | .00088 | .00064 | .00258 | .02899 | .00084 |
| %RSD | 3.6004 | 9.9644 | 29.641 | 3.4499 | .52436 | 1.4977 | 5.0512 | 6.1792 | 18.968 | 39.808 | 8.1533 |
| #1 | -.05880 | .01251 | .01553 | .44492 | .09220 | .01067 | .01688 | .01086 | .01177 | .09334 | .01083 |
| #2 | -.06187 | .01086 | .02377 | .42373 | .09152 | .01044 | .01813 | .00995 | .01541 | .05233 | .00965 |
| Check ? | None | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | 30.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02268** | **.01697** |
| Stddev | .00051 | .00093 |
| %RSD | 2.2580 | 5.4767 |
| #1 | .02305 | .01763 |
| #2 | .02232 | .01631 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5280.8** | **66272.** | **3148.3** |
| Stddev | 9.5 | 26. | 7.4 |
| %RSD | .17925 | .03957 | .23442 |
| #1 | 5274.1 | 66253. | 3153.6 |
| #2 | 5287.5 | 66290. | 3143.1 |

Sample Name: 280-42158-A-16-E Acquired: 5/17/2013 20:35:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00353** | **97.580** | **.03236** | **.01642** | **.64659** | **.00316** | **.00566** | **8.9261** | **.00204** |
| Stddev | .00042 | .186 | .00204 | .00066 | .00198 | .00011 | .00002 | .0300 | .00003 |
| %RSD | 11.844 | .19056 | 6.2993 | 4.0373 | .30679 | 3.3926 | .36626 | .33614 | 1.6725 |
| #1 | .00383 | 97.711 | .03380 | .01689 | .64799 | .00309 | .00565 | 8.9473 | .00201 |
| #2 | .00323 | 97.448 | .03092 | .01595 | .64519 | .00324 | .00568 | 8.9048 | .00206 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05462** | **.09633** | **.14817** | **150.63** | **8.2350** | **.15091** | **19.620** | W **13.746** | **.00250** |
| Stddev | .00016 | .00006 | .00167 | .51 | .0350 | .00247 | .126 | .013 | .00023 |
| %RSD | .28919 | .05889 | 1.1242 | .34170 | .42470 | 1.6389 | .64186 | .09507 | 9.1743 |
| #1 | .05451 | .09629 | .14699 | 150.99 | 8.2103 | .15266 | 19.531 | 13.755 | .00234 |
| #2 | .05473 | .09638 | .14935 | 150.27 | 8.2598 | .14916 | 19.709 | 13.736 | .00266 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56897** | **.09885** | **8.2454** | **.08858** | **2.6246** | **-.00454** | **.00753** | **2.3420** | **.00841** |
| Stddev | .00098 | .00037 | .0034 | .00110 | .0121 | .00098 | .00087 | .0506 | .00006 |
| %RSD | .17303 | .37872 | .04102 | 1.2394 | .45924 | 21.648 | 11.604 | 2.1596 | .66675 |
| #1 | .56966 | .09912 | 8.2478 | .08780 | 2.6161 | -.00384 | .00691 | 2.3062 | .00837 |
| #2 | .56827 | .09859 | 8.2430 | .08935 | 2.6331 | -.00523 | .00815 | 2.3778 | .00845 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04151** | **.07749** | **.70866** | **-.00790** | W **-.06455** | **.18460** | **.53916** | **.00774** |
| Stddev | .00011 | .00328 | .00480 | .00005 | .02256 | .00159 | .00263 | .00227 |
| %RSD | .26819 | 4.2316 | .67706 | .68963 | 34.955 | .85880 | .48705 | 29.308 |
| #1 | .04159 | .07517 | .70526 | -.00794 | -.04860 | .18348 | .53730 | .00614 |
| #2 | .04144 | .07981 | .71205 | -.00786 | -.08051 | .18572 | .54101 | .00935 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5560.6** | **68593.** | **3401.4** |
| Stddev | 2.9 | 15. | 7.6 |
| %RSD | .05137 | .02203 | .22417 |
| #1 | 5558.6 | 68582. | 3396.0 |
| #2 | 5562.7 | 68604. | 3406.8 |

Sample Name: sd 42158-A-16-E@5 Acquired: 5/17/2013 20:38:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **20.786** | **.00573** | **.00170** | **.13741** | **.00051** | **.00126** | **1.8688** | **.00023** |
| Stddev | .00004 | .133 | .00098 | .00021 | .00136 | .00003 | .00177 | .0039 | .00006 |
| %RSD | 3.4958 | .64207 | 17.093 | 12.097 | .98994 | 6.6531 | 139.81 | .21084 | 27.013 |
| #1 | .00105 | 20.880 | .00504 | .00156 | .13838 | .00054 | .00001 | 1.8716 | .00027 |
| #2 | .00100 | 20.691 | .00642 | .00185 | .13645 | .00049 | .00251 | 1.8660 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01154** | **.02009** | **.02993** | **29.181** | **1.8973** | **.02878** | **4.1268** | **2.9915** | **.00105** |
| Stddev | .00013 | .00005 | .00051 | .183 | .0480 | .00326 | .0032 | .0014 | .00019 |
| %RSD | 1.0905 | .22933 | 1.7066 | .62646 | 2.5285 | 11.338 | .07874 | .04591 | 18.420 |
| #1 | .01163 | .02012 | .03030 | 29.310 | 1.8634 | .03109 | 4.1291 | 2.9925 | .00092 |
| #2 | .01145 | .02005 | .02957 | 29.052 | 1.9313 | .02648 | 4.1245 | 2.9905 | .00119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14641** | **.02091** | **1.7066** | **.01964** | **.48656** | **-.00053** | **.00343** | **.51620** | **.00020** |
| Stddev | .00177 | .00029 | .0013 | .00122 | .00273 | .00059 | .00232 | .02356 | .00024 |
| %RSD | 1.2064 | 1.4021 | .07640 | 6.1960 | .56026 | 111.76 | 67.650 | 4.5645 | 121.45 |
| #1 | .14766 | .02112 | 1.7075 | .01878 | .48463 | -.00095 | .00507 | .49954 | .00003 |
| #2 | .14517 | .02070 | 1.7057 | .02050 | .48848 | -.00011 | .00179 | .53286 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00852** | **.01998** | **.14740** | **-.00213** | **.03799** | **.03904** | **.11549** | **.00385** |
| Stddev | .00015 | .00081 | .00192 | .00119 | .03653 | .00034 | .00018 | .00036 |
| %RSD | 1.7378 | 4.0389 | 1.3051 | 55.726 | 96.160 | .87661 | .15872 | 9.4645 |
| #1 | .00842 | .01941 | .14604 | -.00297 | .01216 | .03928 | .11536 | .00411 |
| #2 | .00863 | .02055 | .14876 | -.00129 | .06382 | .03880 | .11562 | .00360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5386.9** | **66674.** | **3213.5** |
| Stddev | 6.0 | 352. | 16.0 |
| %RSD | .11219 | .52767 | .49650 |
| #1 | 5382.6 | 66426. | 3202.2 |
| #2 | 5391.1 | 66923. | 3224.8 |

Sample Name: 280-42158-A-16-F MS  Acquired: 5/17/2013 20:40:46  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05041** | **154.65** | **.91550** | **.94992** | **2.6885** | **.04365** | **1.8342** | **49.812** | **.09388** |
| Stddev | .00027 | .44 | .00743 | .00198 | .0050 | .00008 | .0039 | .121 | .00031 |
| %RSD | .52641 | .28467 | .81106 | .20836 | .18410 | .19015 | .21378 | .24277 | .32798 |
| #1 | .05022 | 154.34 | .91025 | .94852 | 2.6850 | .04359 | 1.8314 | 49.726 | .09366 |
| #2 | .05060 | 154.96 | .92075 | .95132 | 2.6920 | .04371 | 1.8370 | 49.897 | .09410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50994** | **.32135** | **.39626** | **166.92** | **77.182** | **1.2106** | **73.570** | W **13.177** | **.82402** |
| Stddev | .00098 | .00017 | .00025 | .36 | .130 | .0022 | .119 | .080 | .00044 |
| %RSD | .19146 | .05207 | .06300 | .21790 | .16899 | .17849 | .16136 | .60554 | .05325 |
| #1 | .51064 | .32123 | .39644 | 166.66 | 77.090 | 1.2090 | 73.654 | 13.121 | .82371 |
| #2 | .50925 | .32147 | .39608 | 167.17 | 77.275 | 1.2121 | 73.486 | 13.234 | .82433 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.155** | **.55010** | **16.589** | **.53062** | **1.5009** | **.19031** | **1.8683** | **3.2192** | **1.5600** |
| Stddev | .538 | .00004 | .002 | .00380 | .0034 | .00297 | .0105 | .0115 | .0052 |
| %RSD | .97500 | .00661 | .01089 | .71580 | .22604 | 1.5582 | .56392 | .35707 | .32994 |
| #1 | 54.775 | .55012 | 16.590 | .52793 | 1.4985 | .18821 | 1.8757 | 3.2274 | 1.5636 |
| #2 | 55.536 | .55007 | 16.588 | .53331 | 1.5033 | .19240 | 1.8608 | 3.2111 | 1.5564 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0058** | **.74000** | **1.9778** | **1.6962** | **1.8724** | **.72188** | **1.0561** | **.11934** |
| Stddev | .0035 | .00414 | .0019 | .0009 | .0154 | .00321 | .0017 | .00129 |
| %RSD | .34777 | .55921 | .09479 | .05277 | .82186 | .44515 | .16435 | 1.0772 |
| #1 | 1.0033 | .74292 | 1.9765 | 1.6955 | 1.8615 | .72415 | 1.0573 | .11844 |
| #2 | 1.0083 | .73707 | 1.9791 | 1.6968 | 1.8833 | .71960 | 1.0548 | .12025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5436.8** | **67331.** | **3355.8** |
| Stddev | 4.1 | 140. | 2.0 |
| %RSD | .07514 | .20800 | .05998 |
| #1 | 5439.7 | 67430. | 3357.2 |
| #2 | 5433.9 | 67232. | 3354.3 |

Sample Name: 280-42158-A-16-G MSD  Acquired: 5/17/2013 20:43:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05143** | **158.50** | **.93538** | **.99041** | **2.7525** | **.04429** | **1.8876** | **49.807** | **.09681** |
| Stddev | .00034 | .73 | .00744 | .00086 | .0164 | .00048 | .0023 | .215 | .00010 |
| %RSD | .65984 | .46176 | .79492 | .08670 | .59519 | 1.0836 | .12275 | .43084 | .10103 |
| #1 | .05119 | 157.98 | .94064 | .99102 | 2.7409 | .04395 | 1.8860 | 49.655 | .09688 |
| #2 | .05167 | 159.02 | .93012 | .98980 | 2.7641 | .04463 | 1.8893 | 49.959 | .09674 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51781** | **.32687** | **.40007** | **156.09** | **79.205** | **1.2212** | **73.846** | W **10.859** | **.84669** |
| Stddev | .00143 | .00043 | .00048 | .25 | .213 | .0041 | .192 | .058 | .00280 |
| %RSD | .27575 | .13190 | .11948 | .15843 | .26939 | .33867 | .25967 | .53196 | .33095 |
| #1 | .51882 | .32717 | .39973 | 155.92 | 79.054 | 1.2182 | 73.710 | 10.900 | .84867 |
| #2 | .51680 | .32656 | .40040 | 156.27 | 79.356 | 1.2241 | 73.981 | 10.819 | .84471 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.497** | **.55746** | **16.983** | **.54069** | **1.5981** | **.20758** | **1.9164** | **3.6424** | **1.6054** |
| Stddev | .539 | .00175 | .051 | .00096 | .0062 | .00481 | .0088 | .0497 | .0087 |
| %RSD | .97167 | .31438 | .30012 | .17779 | .39037 | 2.3157 | .46111 | 1.3631 | .54077 |
| #1 | 55.116 | .55870 | 17.019 | .54137 | 1.6025 | .20418 | 1.9226 | 3.6073 | 1.6115 |
| #2 | 55.878 | .55622 | 16.947 | .54001 | 1.5937 | .21098 | 1.9101 | 3.6775 | 1.5993 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0231** | **.74878** | **2.1936** | **1.7413** | **1.9107** | **.75188** | **1.0635** | **.11920** |
| Stddev | .0041 | .00147 | .0042 | .0074 | .0345 | .00098 | .0015 | .00227 |
| %RSD | .40038 | .19591 | .19164 | .42458 | 1.8060 | .13005 | .14188 | 1.9082 |
| #1 | 1.0202 | .74774 | 2.1907 | 1.7466 | 1.8863 | .75119 | 1.0624 | .11760 |
| #2 | 1.0260 | .74981 | 2.1966 | 1.7361 | 1.9351 | .75257 | 1.0646 | .12081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5398.1** | **66971.** | **3357.2** |
| Stddev | 3.0 | 351. | 2.0 |
| %RSD | .05586 | .52420 | .05969 |
| #1 | 5395.9 | 67219. | 3358.6 |
| #2 | 5400.2 | 66723. | 3355.8 |

Sample Name: pds 280-42158-A-16-E  Acquired: 5/17/2013 20:45:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04416** | **97.485** | **.22398** | **.11784** | **.74660** | **.04594** | **.00607** | **26.510** | **.05208** |
| Stddev | .00044 | .993 | .00447 | .00022 | .00801 | .00048 | .00226 | .266 | .00045 |
| %RSD | .99064 | 1.0185 | 1.9942 | .18375 | 1.0732 | 1.0521 | 37.146 | 1.0037 | .86319 |
| #1 | .04447 | 98.187 | .22082 | .11799 | .75226 | .04628 | .00767 | 26.698 | .05177 |
| #2 | .04385 | 96.783 | .22714 | .11769 | .74093 | .04559 | .00448 | 26.322 | .05240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10298** | **.14207** | **.19449** | **149.44** | **30.469** | **.25929** | **38.775** | W **13.567** | **.04709** |
| Stddev | .00017 | .00066 | .00066 | 1.08 | .310 | .00273 | .210 | .121 | .00061 |
| %RSD | .16627 | .46157 | .33765 | .72449 | 1.0178 | 1.0524 | .54208 | .88981 | 1.3002 |
| #1 | .10310 | .14161 | .19403 | 150.21 | 30.688 | .26122 | 38.626 | 13.482 | .04666 |
| #2 | .10286 | .14254 | .19495 | 148.68 | 30.250 | .25736 | 38.924 | 13.652 | .04753 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.424** | **.14421** | **10.153** | **.18391** | **2.6152** | **.09378** | **.21293** | **6.4997** | **.09789** |
| Stddev | .225 | .00023 | .003 | .00031 | .0057 | .00113 | .00395 | .0737 | .00090 |
| %RSD | .92284 | .16169 | .03258 | .17118 | .21844 | 1.2094 | 1.8571 | 1.1333 | .91971 |
| #1 | 24.583 | .14405 | 10.155 | .18413 | 2.6111 | .09459 | .21572 | 6.5518 | .09725 |
| #2 | 24.265 | .14438 | 10.151 | .18369 | 2.6192 | .09298 | .21013 | 6.4477 | .09852 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09435** | **.27963** | **.75103** | **.18430** | **.52834** | **.23067** | **.72332** | **.05445** |
| Stddev | .00019 | .00572 | .00646 | .00136 | .00297 | .00183 | .00377 | .00127 |
| %RSD | .20260 | 2.0457 | .86054 | .73652 | .56212 | .79267 | .52080 | 2.3379 |
| #1 | .09448 | .27559 | .74646 | .18334 | .53044 | .22938 | .72066 | .05355 |
| #2 | .09421 | .28368 | .75560 | .18526 | .52624 | .23197 | .72598 | .05535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5553.8** | **68820.** | **3374.1** |
| Stddev | 10.8 | 102. | 27.6 |
| %RSD | .19429 | .14781 | .81855 |
| #1 | 5546.2 | 68892. | 3354.6 |
| #2 | 5561.4 | 68748. | 3393.6 |

Sample Name: 280-42158-A-17-B  Acquired: 5/17/2013 20:47:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00179** | **100.18** | **.02951** | **.02192** | **.61384** | **.00346** | **.00360** | **10.042** | **.00222** |
| Stddev | .00094 | .38 | .00277 | .00006 | .00310 | .00007 | .00110 | .022 | .00020 |
| %RSD | 52.390 | .37661 | 9.3769 | .29605 | .50446 | 2.0084 | 30.636 | .21946 | 9.1621 |
| #1 | .00246 | 99.910 | .02755 | .02187 | .61165 | .00351 | .00438 | 10.058 | .00236 |
| #2 | .00113 | 100.44 | .03147 | .02196 | .61603 | .00342 | .00282 | 10.027 | .00208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05373** | **.09866** | **.14090** | **136.29** | **9.2455** | **.15171** | **20.757** | W **10.074** | **.00226** |
| Stddev | .00005 | .00024 | .00018 | .53 | .1268 | .00118 | .045 | .050 | .00003 |
| %RSD | .08417 | .24304 | .12609 | .38996 | 1.3721 | .77707 | .21563 | .49317 | 1.2366 |
| #1 | .05370 | .09849 | .14078 | 136.66 | 9.3352 | .15255 | 20.788 | 10.109 | .00228 |
| #2 | .05376 | .09883 | .14103 | 135.91 | 9.1558 | .15088 | 20.725 | 10.039 | .00224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55635** | **.10504** | **6.9774** | **.09276** | **1.5305** | **-.00337** | **.00465** | **2.5788** | **.00783** |
| Stddev | .01126 | .00046 | .0217 | .00046 | .0050 | .00035 | .00051 | .0205 | .00010 |
| %RSD | 2.0232 | .43879 | .31177 | .49424 | .32934 | 10.385 | 10.958 | .79646 | 1.2134 |
| #1 | .56431 | .10471 | 6.9620 | .09243 | 1.5269 | -.00313 | .00429 | 2.5643 | .00790 |
| #2 | .54839 | .10536 | 6.9928 | .09308 | 1.5340 | -.00362 | .00501 | 2.5933 | .00777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04956** | **.07309** | **.59547** | **-.00812** | **-.00642** | **.18313** | **.51967** | **.01189** |
| Stddev | .00035 | .00193 | .00267 | .00009 | .01227 | .00046 | .00090 | .00054 |
| %RSD | .70515 | 2.6455 | .44866 | 1.1274 | 191.18 | .25025 | .17360 | 4.5057 |
| #1 | .04981 | .07446 | .59358 | -.00806 | .00226 | .18346 | .52030 | .01227 |
| #2 | .04932 | .07173 | .59736 | -.00819 | -.01510 | .18281 | .51903 | .01152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5684.0** | **69858.** | **3464.2** |
| Stddev | 17.4 | 215. | 9.0 |
| %RSD | .30580 | .30790 | .25944 |
| #1 | 5671.7 | 69706. | 3470.6 |
| #2 | 5696.3 | 70010. | 3457.9 |

Sample Name: 280-42158-A-18-B  Acquired: 5/17/2013 20:50:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00297** | **94.175** | **.04442** | **.02592** | **.51856** | **.00367** | **.00542** | **13.162** | **.00189** |
| Stddev | .00006 | .208 | .00047 | .00040 | .00163 | .00002 | .00216 | .049 | .00012 |
| %RSD | 1.8570 | .22120 | 1.0595 | 1.5610 | .31380 | .64874 | 39.742 | .37310 | 6.4497 |
| #1 | .00300 | 94.322 | .04476 | .02563 | .51971 | .00366 | .00390 | 13.196 | .00197 |
| #2 | .00293 | 94.028 | .04409 | .02621 | .51741 | .00369 | .00695 | 13.127 | .00180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06664** | **.12061** | **.26040** | **172.47** | **13.171** | **.18397** | **31.621** | W **13.062** | **.00654** |
| Stddev | .00014 | .00045 | .00053 | .25 | .059 | .00020 | .058 | .013 | .00024 |
| %RSD | .21337 | .37170 | .20435 | .14447 | .44590 | .10939 | .18497 | .09602 | 3.7067 |
| #1 | .06654 | .12029 | .26078 | 172.30 | 13.213 | .18383 | 31.662 | 13.071 | .00671 |
| #2 | .06674 | .12092 | .26002 | 172.65 | 13.130 | .18412 | 31.579 | 13.053 | .00637 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67343** | **.14156** | **7.2689** | **.08169** | **.86886** | **-.00390** | **.00480** | **2.2805** | **.02599** |
| Stddev | .00827 | .00040 | .0303 | .00215 | .00374 | .00126 | .00163 | .0023 | .00034 |
| %RSD | 1.2281 | .28295 | .41698 | 2.6288 | .42996 | 32.195 | 34.025 | .10047 | 1.3080 |
| #1 | .66758 | .14127 | 7.2474 | .08017 | .86622 | -.00479 | .00364 | 2.2821 | .02575 |
| #2 | .67928 | .14184 | 7.2903 | .08320 | .87150 | -.00302 | .00595 | 2.2789 | .02623 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05618** | **.08755** | **.48226** | **-.00679** | **-.01668** | **.17383** | **.67378** | **.02297** |
| Stddev | .00025 | .00177 | .01432 | .00155 | .06878 | .00152 | .00032 | .00394 |
| %RSD | .44856 | 2.0207 | 2.9702 | 22.787 | 412.40 | .87528 | .04767 | 17.137 |
| #1 | .05600 | .08630 | .49239 | -.00569 | .03196 | .17490 | .67355 | .02576 |
| #2 | .05636 | .08880 | .47213 | -.00788 | -.06531 | .17275 | .67400 | .02019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6018.7** | **74620.** | **3662.6** |
| Stddev | 20.6 | 163. | 14.2 |
| %RSD | .34194 | .21844 | .38819 |
| #1 | 6033.3 | 74735. | 3652.6 |
| #2 | 6004.2 | 74505. | 3672.7 |

Sample Name: 280-42158-A-19-B  Acquired: 5/17/2013 20:52:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00196** | **85.471** | **.05595** | **.01910** | **.38429** | **.00377** | **.00831** | **10.541** | **.00142** |
| Stddev | .00004 | .050 | .00090 | .00072 | .00014 | .00010 | .00379 | .030 | .00010 |
| %RSD | 1.7997 | .05890 | 1.6155 | 3.7630 | .03731 | 2.6358 | 45.638 | .28732 | 7.1213 |
| #1 | .00198 | 85.507 | .05659 | .01960 | .38439 | .00384 | .01099 | 10.562 | .00135 |
| #2 | .00193 | 85.436 | .05531 | .01859 | .38418 | .00370 | .00563 | 10.519 | .00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06450** | **.10295** | **.33032** | **203.37** | **10.047** | **.15426** | **27.972** | W **14.894** | **.00386** |
| Stddev | .00009 | .00023 | .00039 | .26 | .065 | .00101 | .048 | .059 | .00003 |
| %RSD | .13706 | .21928 | .11705 | .12675 | .65136 | .65189 | .17333 | .39593 | .75742 |
| #1 | .06444 | .10279 | .33060 | 203.55 | 10.094 | .15355 | 28.006 | 14.852 | .00388 |
| #2 | .06456 | .10311 | .33005 | 203.18 | 10.001 | .15497 | 27.937 | 14.936 | .00384 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48883** | **.12386** | **4.7865** | **.08442** | **.34748** | **-.00677** | **.00317** | **1.3307** | **.00608** |
| Stddev | .01015 | .00064 | .0044 | .00123 | .00036 | .00161 | .00094 | .0299 | .00047 |
| %RSD | 2.0764 | .51739 | .09258 | 1.4592 | .10502 | 23.733 | 29.585 | 2.2467 | 7.7781 |
| #1 | .48166 | .12341 | 4.7897 | .08529 | .34774 | -.00563 | .00384 | 1.3096 | .00575 |
| #2 | .49601 | .12431 | 4.7834 | .08355 | .34722 | -.00791 | .00251 | 1.3519 | .00642 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10719** | **.10858** | **.38456** | **-.00979** | **-.03479** | **.14764** | **.45213** | **.02317** |
| Stddev | .00015 | .00030 | .00046 | .00080 | .00510 | .00035 | .00006 | .00219 |
| %RSD | .14107 | .28032 | .11932 | 8.1218 | 14.669 | .23556 | .01340 | 9.4346 |
| #1 | .10730 | .10836 | .38423 | -.01035 | -.03118 | .14788 | .45217 | .02163 |
| #2 | .10708 | .10879 | .38488 | -.00923 | -.03840 | .14739 | .45209 | .02472 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6536.9** | **80666.** | **3950.1** |
| Stddev | 28.0 | 78. | 7.0 |
| %RSD | .42783 | .09690 | .17612 |
| #1 | 6517.1 | 80611. | 3945.2 |
| #2 | 6556.7 | 80721. | 3955.0 |

Sample Name: 280-42158-A-20-B Acquired: 5/17/2013 20:55:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174353 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **78.892** | **.04423** | **.02172** | **.31161** | **.00353** | **.00743** | **24.380** | **.00104** |
| Stddev | .00026 | .505 | .00045 | .00004 | .00406 | .00004 | .00035 | .178 | .00005 |
| %RSD | 15.461 | .64065 | 1.0218 | .18601 | 1.3028 | 1.2650 | 4.7129 | .72949 | 4.6160 |
| #1 | .00149 | 79.249 | .04391 | .02169 | .31448 | .00350 | .00768 | 24.506 | .00101 |
| #2 | .00186 | 78.535 | .04455 | .02175 | .30873 | .00356 | .00718 | 24.254 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07010** | **.10726** | **.33653** | **179.34** | **11.846** | **.19266** | **38.672** | **9.1086** | **.00301** |
| Stddev | .00041 | .00043 | .00108 | .60 | .029 | .00282 | .011 | .0639 | .00021 |
| %RSD | .58961 | .40462 | .32208 | .33197 | .24308 | 1.4640 | .02810 | .70095 | 6.8359 |
| #1 | .06981 | .10696 | .33577 | 179.76 | 11.866 | .19066 | 38.679 | 9.0635 | .00286 |
| #2 | .07039 | .10757 | .33730 | 178.92 | 11.825 | .19465 | 38.664 | 9.1538 | .00315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53507** | **.15940** | **7.6970** | **.06211** | **.14132** | **-.00410** | **.00058** | **2.1104** | **.00432** |
| Stddev | .00262 | .00061 | .0006 | .00065 | .00002 | .00104 | .00526 | .0841 | .00069 |
| %RSD | .48897 | .38551 | .00799 | 1.0510 | .01313 | 25.405 | 910.76 | 3.9834 | 15.965 |
| #1 | .53322 | .15897 | 7.6975 | .06165 | .14133 | -.00484 | -.00314 | 2.1699 | .00383 |
| #2 | .53692 | .15984 | 7.6966 | .06258 | .14130 | -.00337 | .00429 | 2.0510 | .00481 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07415** | **.09255** | **.33649** | **-.00463** | **.01356** | **.14402** | **.58022** | **.04740** |
| Stddev | .00015 | .00114 | .00214 | .00188 | .01145 | .00011 | .00036 | .00048 |
| %RSD | .19923 | 1.2293 | .63560 | 40.683 | 84.413 | .07847 | .06236 | 1.0098 |
| #1 | .07425 | .09175 | .33800 | -.00596 | .02165 | .14410 | .57997 | .04774 |
| #2 | .07405 | .09336 | .33497 | -.00330 | .00547 | .14394 | .58048 | .04706 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6383.0** | **78960.** | **3842.3** |
| Stddev | 6.7 | 224. | 13.8 |
| %RSD | .10527 | .28428 | .36039 |
| #1 | 6387.7 | 78802. | 3832.5 |
| #2 | 6378.2 | 79119. | 3852.1 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 20:57:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00075** | **46.867** | **-.00018** | **-.00006** | **.00146** | **-.00009** | **.99865** | **.01969** | **-.00072** | **.00219** | **.00006** | **-.00155** |
| Stddev | .00057 | .008 | .00401 | .00032 | .00023 | .00008 | .00356 | .00338 | .00010 | .00018 | .00001 | .00049 |
| %RSD | 75.508 | .01714 | 2237.5 | 585.64 | 15.818 | 96.120 | .35628 | 17.171 | 14.320 | 8.2163 | 16.023 | 31.790 |
| #1 | -.00115 | 46.861 | -.00301 | -.00028 | .00163 | -.00003 | .99613 | .01730 | -.00065 | .00232 | .00006 | -.00189 |
| #2 | -.00035 | 46.873 | .00266 | .00017 | .00130 | -.00015 | 1.0012 | .02208 | -.00079 | .00206 | .00005 | -.00120 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.921** | **.35941** | **-.00153** | **.03985** | **.00931** | **-.00137** | F **290.05** | **.00206** | **.01220** | **.00081** | **5.0279** | **.00128** |
| Stddev | .163 | .03117 | .00140 | .00226 | .00026 | .00012 | .77 | .00036 | .00139 | .00264 | .0158 | .00058 |
| %RSD | .41953 | 8.6737 | 91.830 | 5.6804 | 2.8164 | 9.1134 | .26443 | 17.399 | 11.411 | 328.27 | .31505 | 45.630 |
| #1 | 39.036 | .38146 | -.00054 | .03825 | .00950 | -.00128 | 290.60 | .00232 | .01319 | .00267 | 5.0167 | .00169 |
| #2 | 38.806 | .33737 | -.00252 | .04145 | .00913 | -.00146 | 289.51 | .00181 | .01122 | -.00106 | 5.0391 | .00087 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00951** | **-.00419** | **-.00048** | **.00058** | **5.1757** | **.00382** | **-.00258** | **9.9915** | **-.00003** | **.00436** | **-.06149** |
| Stddev | .00199 | .00286 | .00038 | .00022 | .0053 | .00027 | .00144 | .0138 | .00058 | .00011 | .00142 |
| %RSD | 20.872 | 68.217 | 79.582 | 37.396 | .10142 | 6.9349 | 55.682 | .13859 | 1712.5 | 2.4540 | 2.3112 |
| #1 | .01092 | -.00217 | -.00075 | .00074 | 5.1795 | .00363 | -.00157 | 9.9817 | .00037 | .00429 | -.06250 |
| #2 | .00811 | -.00621 | -.00021 | .00043 | 5.1720 | .00401 | -.00360 | 10.001 | -.00044 | .00444 | -.06049 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5244.7** | **65240.** | **3118.8** |
| Stddev | 6.0 | 93. | 9.7 |
| %RSD | .11400 | .14290 | .31043 |
| #1 | 5248.9 | 65174. | 3112.0 |
| #2 | 5240.5 | 65306. | 3125.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 20:59:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50113** | **.50115** | **.97054** | **.50406** | **.51168** | F **.43096** | **.00595** | **4.5214** | **.49060** | **.49921** | **.47619** | **.47436** |
| Stddev | .00064 | .00676 | .00491 | .00201 | .00135 | .00207 | .00190 | .0113 | .00123 | .00308 | .00210 | .00008 |
| %RSD | .12809 | 1.3482 | .50581 | .39890 | .26361 | .47990 | 31.858 | .25092 | .24970 | .61665 | .44017 | .01633 |
| #1 | .50067 | .50593 | .96707 | .50264 | .51263 | .43242 | .00729 | 4.5294 | .48973 | .49703 | .47471 | .47431 |
| #2 | .50158 | .49637 | .97401 | .50549 | .51072 | .42950 | .00461 | 4.5134 | .49147 | .50139 | .47767 | .47442 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0699** | F **55.689** | F **1.1051** | **19.424** | **.49761** | **.46621** | **5.3219** | **.48827** | **1.0002** | **.98057** | **-.06330** | **.98281** |
| Stddev | .0010 | .285 | .0034 | .013 | .00254 | .00343 | .0335 | .00271 | .0020 | .00727 | .00050 | .00319 |
| %RSD | .04870 | .51265 | .30381 | .06748 | .51130 | .73639 | .62854 | .55434 | .20305 | .74176 | .78327 | .32439 |
| #1 | 2.0706 | 55.891 | 1.1075 | 19.415 | .49941 | .46378 | 5.3456 | .48636 | .99878 | .97543 | -.06295 | .98055 |
| #2 | 2.0692 | 55.487 | 1.1027 | 19.433 | .49581 | .46863 | 5.2983 | .49018 | 1.0016 | .98572 | -.06366 | .98506 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0072** | F **4.1651** | **.93626** | **.50966** | **.00320** | **.48621** | **.94443** | **.01118** | **.47807** | **.49219** | **.45373** |
| Stddev | .0002 | .0392 | .00748 | .00110 | .00209 | .00031 | .00706 | .01418 | .00019 | .00006 | .00204 |
| %RSD | .01963 | .94035 | .79880 | .21652 | 65.371 | .06326 | .74788 | 126.87 | .04037 | .01320 | .44956 |
| #1 | 1.0074 | 4.1374 | .93097 | .51044 | .00468 | .48642 | .93943 | .00115 | .47794 | .49214 | .45229 |
| #2 | 1.0071 | 4.1928 | .94155 | .50888 | .00172 | .48599 | .94942 | .02121 | .47821 | .49223 | .45517 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5331.3** | **66671.** | **3189.5** |
| Stddev | 22.6 | 72. | 13.3 |
| %RSD | .42316 | .10795 | .41713 |
| #1 | 5347.2 | 66621. | 3198.9 |
| #2 | 5315.3 | 66722. | 3180.1 |

Sample Name: CCB Acquired: 5/17/2013 21:02:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **.00480** | **.00201** | **-.00131** | **.00031** | **.00003** | **.00309** | **-.00760** | **-.00026** | **.00019** | **.00001** |
| Stddev | .00014 | .00029 | .00084 | .00073 | .00013 | .00020 | .00096 | .00681 | .00016 | .00006 | .00017 |
| %RSD | 22.186 | 6.0110 | 41.966 | 55.273 | 40.975 | 752.08 | 31.089 | 89.569 | 60.978 | 30.681 | 1335.9 |
| #1 | .00071 | .00459 | .00142 | -.00080 | .00041 | -.00011 | .00241 | -.00279 | -.00015 | .00023 | -.00010 |
| #2 | .00051 | .00500 | .00261 | -.00183 | .00022 | .00017 | .00377 | -.01242 | -.00037 | .00015 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **-.00227** | **.18553** | F **-.00700** | **-.00118** | **.00022** | **.00009** | **-.00356** | **.00023** | **.00109** | **-.00015** |
| Stddev | .00011 | .00323 | .05732 | .00154 | .00016 | .00002 | .00013 | .00064 | .00009 | .00206 | .00007 |
| %RSD | 17.942 | 142.35 | 30.898 | 22.029 | 13.454 | 10.320 | 141.37 | 17.816 | 38.418 | 189.92 | 48.849 |
| #1 | -.00071 | -.00456 | .22607 | -.00810 | -.00107 | .00023 | .00000 | -.00312 | .00030 | .00254 | -.00010 |
| #2 | -.00055 | .00001 | .14500 | -.00591 | -.00130 | .00020 | .00018 | -.00401 | .00017 | -.00037 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | | | | |
| Low Limit | | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06030** | **.00241** | **.00442** | **-.02926** | **-.00149** | **.00003** | **.00026** | **-.00012** | **.00016** | **.04228** | **.00069** |
| Stddev | .00224 | .00116 | .00078 | .00297 | .00049 | .00025 | .00100 | .00039 | .00022 | .03014 | .00039 |
| %RSD | 3.7141 | 48.189 | 17.686 | 10.157 | 32.655 | 867.50 | 384.89 | 330.09 | 131.96 | 71.284 | 55.800 |
| #1 | -.06189 | .00159 | .00386 | -.03136 | -.00183 | .00020 | .00097 | -.00040 | .00032 | .02097 | .00042 |
| #2 | -.05872 | .00323 | .00497 | -.02716 | -.00115 | -.00015 | -.00045 | .00016 | .00001 | .06359 | .00097 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00192** | W **.00355** |
| Stddev | .00008 | .00055 |
| %RSD | 4.0948 | 15.454 |
| #1 | .00187 | .00316 |
| #2 | .00198 | .00394 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5383.8** | **67277.** | **3140.7** |
| Stddev | 14.9 | 284. | 6.1 |
| %RSD | .27623 | .42259 | .19461 |
| #1 | 5373.3 | 67478. | 3136.4 |
| #2 | 5394.3 | 67076. | 3145.0 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 21:04:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01080** | **.10301** | **.01487** | **.10085** | **.01134** | W **.00078** | **.10413** | **.18431** | **.00506** | **.01055** | **.00968** |
| Stddev | .00041 | .00017 | .00128 | .00037 | .00027 | .00006 | .00094 | .00071 | .00004 | .00006 | .00015 |
| %RSD | 3.7590 | .16077 | 8.6046 | .36901 | 2.3395 | 7.2745 | .90544 | .38402 | .83704 | .53008 | 1.5155 |
| #1 | .01051 | .10289 | .01577 | .10059 | .01115 | .00082 | .10480 | .18481 | .00509 | .01059 | .00979 |
| #2 | .01109 | .10313 | .01396 | .10111 | .01153 | .00074 | .10346 | .18381 | .00503 | .01051 | .00958 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01394** | W **.07854** | W **3.7555** | **.00961** | **.20571** | **.01039** | **.01904** | **1.1483** | **.04050** | **2.9564** | **.00990** |
| Stddev | .00043 | .00064 | .0431 | .00078 | .00326 | .00002 | .00017 | .0083 | .00005 | .0092 | .00024 |
| %RSD | 3.1183 | .82038 | 1.1469 | 8.1634 | 1.5832 | .21480 | .87362 | .72134 | .11992 | .30946 | 2.3873 |
| #1 | .01424 | .07808 | 3.7859 | .01016 | .20802 | .01038 | .01893 | 1.1425 | .04046 | 2.9500 | .00973 |
| #2 | .01363 | .07899 | 3.7250 | .00906 | .20341 | .01041 | .01916 | 1.1542 | .04053 | 2.9629 | .01007 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | | | | | | | | |
| Range | | -20.000% | 20.000% | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06172** | **.01138** | **.01392** | **.41889** | **.09500** | **.01072** | **.01722** | **.00968** | **.01455** | F **.03980** | **.01050** |
| Stddev | .00135 | .00026 | .00342 | .00983 | .00165 | .00021 | .00385 | .00019 | .00022 | .00065 | .00004 |
| %RSD | 2.1822 | 2.3043 | 24.552 | 2.3466 | 1.7415 | 1.9544 | 22.379 | 1.9898 | 1.5268 | 1.6324 | .42694 |
| #1 | -.06077 | .01119 | .01634 | .42584 | .09383 | .01087 | .01449 | .00954 | .01471 | .03934 | .01053 |
| #2 | -.06267 | .01156 | .01150 | .41194 | .09617 | .01057 | .01994 | .00981 | .01439 | .04026 | .01046 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02317** | **.01602** |
| Stddev | .00067 | .00060 |
| %RSD | 2.8729 | 3.7601 |
| #1 | .02364 | .01644 |
| #2 | .02270 | .01559 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5309.1** | **66320.** | **3126.1** |
| Stddev | 13.6 | 39. | 3.6 |
| %RSD | .25554 | .05893 | .11366 |
| #1 | 5318.7 | 66293. | 3123.6 |
| #2 | 5299.5 | 66348. | 3128.6 |

Sample Name: MB 280-174355/1-A Acquired: 5/17/2013 21:07:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **.01486** | **-.00123** | F **.02263** | **.00101** | **-.00007** | **.00186** | **.05614** | **.00003** |
| Stddev | .00041 | .00028 | .00136 | .00016 | .00017 | .00012 | .00272 | .00827 | .00013 |
| %RSD | 45.858 | 1.8796 | 110.74 | .71968 | 17.165 | 181.33 | 146.47 | 14.730 | 445.87 |
| #1 | .00120 | .01506 | -.00219 | .02251 | .00089 | -.00015 | -.00007 | .05029 | -.00006 |
| #2 | .00061 | .01467 | -.00027 | .02274 | .00113 | .00002 | .00378 | .06198 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **.00004** | **.00188** | **.02385** | **.24065** | **-.00210** | **.01412** | **.00061** | **.00018** |
| Stddev | .00003 | .00012 | .00013 | .00043 | .00804 | .00119 | .00003 | .00007 | .00007 |
| %RSD | 21.290 | 290.55 | 6.8670 | 1.8078 | 3.3398 | 56.764 | .20088 | 11.752 | 40.490 |
| #1 | -.00013 | .00013 | .00179 | .02416 | .24633 | -.00125 | .01410 | .00055 | .00013 |
| #2 | -.00017 | -.00004 | .00197 | .02355 | .23497 | -.00294 | .01414 | .00066 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44828** | **.00110** | F **.07575** | **.00117** | **-.02397** | **.00067** | **.00434** | W **.07792** | **.00495** |
| Stddev | .03282 | .00041 | .00084 | .00020 | .00105 | .00015 | .00294 | .01318 | .00023 |
| %RSD | 7.3221 | 37.444 | 1.1145 | 17.233 | 4.3741 | 23.189 | 67.740 | 16.910 | 4.5796 |
| #1 | .47149 | .00140 | .07516 | .00103 | -.02471 | .00078 | .00226 | .08723 | .00479 |
| #2 | .42507 | .00081 | .07635 | .00131 | -.02322 | .00056 | .00642 | .06860 | .00511 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00067** | **.00080** | **-.00061** | **.00870** | **.00062** | W **.00558** | **.00417** |
| Stddev | .00016 | .00025 | .00003 | .00037 | .02043 | .00045 | .00012 | .00196 |
| %RSD | 225.67 | 37.151 | 3.8392 | 60.396 | 234.81 | 72.838 | 2.1664 | 46.978 |
| #1 | .00018 | .00084 | .00078 | -.00035 | -.00575 | .00093 | .00566 | .00556 |
| #2 | -.00004 | .00049 | .00083 | -.00087 | .02315 | .00030 | .00549 | .00279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00500 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5371.5** | **66879.** | **3173.6** |
| Stddev | 2.3 | 245. | 20.1 |
| %RSD | .04243 | .36579 | .63390 |
| #1 | 5369.9 | 66706. | 3187.8 |
| #2 | 5373.1 | 67052. | 3159.4 |

Sample Name: LCS 280-174355/2-A Acquired: 5/17/2013 21:09:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05069** | **1.8828** | **.92105** | **1.0991** | **1.9812** | **.04216** | **1.9144** | **42.877** | **.09586** |
| Stddev | .00005 | .0010 | .00317 | .0009 | .0169 | .00022 | .0022 | .295 | .00032 |
| %RSD | .10356 | .05601 | .34458 | .08428 | .85270 | .51403 | .11638 | .68910 | .33709 |
| #1 | .05072 | 1.8820 | .91880 | 1.0998 | 1.9693 | .04201 | 1.9160 | 42.668 | .09609 |
| #2 | .05065 | 1.8835 | .92329 | 1.0985 | 1.9932 | .04232 | 1.9128 | 43.086 | .09563 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46949** | **.18402** | **.22863** | F **.81165** | **54.782** | **1.0751** | **46.023** | **.46494** | **.90064** |
| Stddev | .00055 | .00010 | .00048 | .00455 | .196 | .0076 | .049 | .00011 | .00052 |
| %RSD | .11690 | .05555 | .20801 | .56067 | .35831 | .70235 | .10706 | .02342 | .05774 |
| #1 | .46987 | .18395 | .22897 | .80843 | 54.643 | 1.0698 | 46.058 | .46486 | .90027 |
| #2 | .46910 | .18409 | .22830 | .81487 | 54.921 | 1.0804 | 45.988 | .46502 | .90100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.2000 | | | | | |
| Low Limit | | | | .87000 | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **56.488** | **.45872** | **9.7950** | **.46690** | **-.02400** | **.47388** | **1.9294** | **1.2023** | **1.8040** |
| Stddev | .676 | .00065 | .0032 | .00076 | .00158 | .00034 | .0061 | .0046 | .0034 |
| %RSD | 1.1972 | .14233 | .03275 | .16309 | 6.6043 | .07200 | .31545 | .37907 | .18546 |
| #1 | 56.967 | .45919 | 9.7927 | .46744 | -.02512 | .47363 | 1.9251 | 1.1991 | 1.8017 |
| #2 | 56.010 | .45826 | 9.7972 | .46636 | -.02288 | .47412 | 1.9337 | 1.2056 | 1.8064 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 56.000 | | | | | | | | |
| Low Limit | 45.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98607** | **.96537** | **.92846** | **1.8435** | **1.9349** | **.46069** | **.50861** | **.42753** |
| Stddev | .00679 | .00199 | .00174 | .0013 | .0098 | .00127 | .00019 | .00041 |
| %RSD | .68822 | .20599 | .18708 | .06890 | .50786 | .27495 | .03772 | .09531 |
| #1 | .98127 | .96397 | .92723 | 1.8426 | 1.9280 | .46159 | .50875 | .42782 |
| #2 | .99087 | .96678 | .92969 | 1.8444 | 1.9419 | .45979 | .50848 | .42724 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5224.9** | **65568.** | **3098.7** |
| Stddev | 8.5 | 220. | 7.0 |
| %RSD | .16208 | .33574 | .22529 |
| #1 | 5218.9 | 65412. | 3103.6 |
| #2 | 5230.9 | 65723. | 3093.8 |

Sample Name: 280-42158-A-21-B  Acquired: 5/17/2013 21:11:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00281** | **82.524** | **.04059** | **.02227** | **.38096** | **.00333** | **.00395** | **18.313** | **.00123** |
| Stddev | .00014 | .104 | .00174 | .00052 | .00024 | .00012 | .00127 | .008 | .00000 |
| %RSD | 4.8309 | .12630 | 4.2910 | 2.3344 | .06250 | 3.5161 | 32.229 | .04203 | .12520 |
| #1 | .00271 | 82.451 | .04182 | .02264 | .38113 | .00325 | .00485 | 18.318 | .00123 |
| #2 | .00291 | 82.598 | .03935 | .02190 | .38079 | .00341 | .00305 | 18.307 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06969** | **.13193** | **.28211** | **203.82** | **11.651** | **.19764** | **41.234** | W **14.484** | **.00782** |
| Stddev | .00049 | .00087 | .00067 | .26 | .027 | .00027 | .014 | .023 | .00005 |
| %RSD | .69975 | .65751 | .23884 | .12524 | .23501 | .13408 | .03386 | .15865 | .68290 |
| #1 | .07004 | .13255 | .28163 | 203.64 | 11.632 | .19745 | 41.224 | 14.467 | .00786 |
| #2 | .06935 | .13132 | .28258 | 204.00 | 11.670 | .19783 | 41.243 | 14.500 | .00778 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.58658** | **.16705** | **6.0178** | **.05620** | **.12466** | **-.00483** | **.00236** | **2.2430** | **.00424** |
| Stddev | .00751 | .00119 | .0423 | .00268 | .00247 | .00044 | .00171 | .0189 | .00064 |
| %RSD | 1.2800 | .71052 | .70343 | 4.7688 | 1.9791 | 9.0172 | 72.673 | .84409 | 15.069 |
| #1 | .59189 | .16789 | 6.0478 | .05810 | .12640 | -.00514 | .00115 | 2.2564 | .00469 |
| #2 | .58127 | .16621 | 5.9879 | .05431 | .12291 | -.00452 | .00357 | 2.2296 | .00379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08954** | **.10495** | **.32320** | W **-.01022** | **-.01525** | **.15243** | **.52311** | **.05600** |
| Stddev | .00036 | .00042 | .00016 | .00015 | .04024 | .00005 | .00032 | .00177 |
| %RSD | .40057 | .40049 | .04837 | 1.4771 | 263.80 | .03305 | .06048 | 3.1664 |
| #1 | .08929 | .10466 | .32309 | -.01033 | -.04370 | .15239 | .52333 | .05726 |
| #2 | .08980 | .10525 | .32331 | -.01012 | .01320 | .15246 | .52289 | .05475 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6227.4** | **77417.** | **3788.1** |
| Stddev | 8.3 | 155. | 10.7 |
| %RSD | .13380 | .19975 | .28266 |
| #1 | 6221.5 | 77308. | 3780.5 |
| #2 | 6233.3 | 77527. | 3795.7 |

Sample Name: 280-42158-A-22-D Acquired: 5/17/2013 21:14:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00170** | **106.08** | **.04336** | **.02033** | **.39916** | **.00434** | **.00476** | **10.023** | **.00197** |
| Stddev | .00044 | .20 | .00284 | .00074 | .00076 | .00005 | .00035 | .001 | .00018 |
| %RSD | 25.925 | .18935 | 6.5379 | 3.6149 | .19082 | 1.1229 | 7.3875 | .00519 | 9.0660 |
| #1 | .00201 | 106.22 | .04537 | .02085 | .39970 | .00437 | .00500 | 10.023 | .00184 |
| #2 | .00139 | 105.94 | .04136 | .01982 | .39862 | .00430 | .00451 | 10.023 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06844** | **.13157** | **.34230** | **187.31** | **11.310** | **.19524** | **36.087** | W **11.083** | **.00343** |
| Stddev | .00053 | .00008 | .00112 | .33 | .086 | .00050 | .015 | .169 | .00002 |
| %RSD | .78163 | .05783 | .32667 | .17757 | .75645 | .25511 | .04205 | 1.5273 | .45383 |
| #1 | .06882 | .13162 | .34309 | 187.08 | 11.370 | .19559 | 36.098 | 10.963 | .00344 |
| #2 | .06807 | .13152 | .34151 | 187.55 | 11.249 | .19488 | 36.076 | 11.202 | .00342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56961** | **.15207** | **5.1532** | **.07696** | **.51170** | **-.00326** | **.00286** | **2.2102** | **.00649** |
| Stddev | .01221 | .00080 | .0086 | .00080 | .00009 | .00174 | .00316 | .0440 | .00004 |
| %RSD | 2.1440 | .52859 | .16671 | 1.0440 | .01820 | 53.442 | 110.33 | 1.9918 | .56431 |
| #1 | .56097 | .15264 | 5.1593 | .07640 | .51176 | -.00203 | .00510 | 2.2413 | .00647 |
| #2 | .57824 | .15150 | 5.1472 | .07753 | .51163 | -.00449 | .00063 | 2.1791 | .00652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04836** | **.09735** | **.51874** | **-.00859** | **.00207** | **.17448** | **.58548** | **.02266** |
| Stddev | .00002 | .00055 | .00251 | .00031 | .01728 | .00061 | .00018 | .00104 |
| %RSD | .03930 | .56370 | .48326 | 3.6302 | 836.30 | .34874 | .03082 | 4.5939 |
| #1 | .04835 | .09773 | .52051 | -.00837 | -.01015 | .17491 | .58535 | .02339 |
| #2 | .04837 | .09696 | .51697 | -.00881 | .01428 | .17405 | .58561 | .02192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5694.4** | **70156.** | **3432.7** |
| Stddev | 7.3 | 175. | 25.1 |
| %RSD | .12893 | .24931 | .73186 |
| #1 | 5689.2 | 70280. | 3414.9 |
| #2 | 5699.5 | 70033. | 3450.4 |

Sample Name: 280-42158-A-23-C  Acquired: 5/17/2013 21:16:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **88.419** | **.04661** | **.02181** | **.34586** | **.00402** | **.00787** | **11.515** | **.00180** |
| Stddev | .00025 | .156 | .00031 | .00010 | .00118 | .00000 | .00042 | .020 | .00022 |
| %RSD | 18.801 | .17684 | .67036 | .45643 | .34046 | .05820 | 5.3798 | .17422 | 12.247 |
| #1 | .00153 | 88.529 | .04639 | .02174 | .34669 | .00402 | .00817 | 11.529 | .00164 |
| #2 | .00117 | 88.308 | .04683 | .02188 | .34503 | .00402 | .00757 | 11.501 | .00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07895** | **.16215** | **.35220** | **190.30** | **11.933** | **.22333** | **40.013** | W **10.608** | **.01254** |
| Stddev | .00020 | .00058 | .00107 | .32 | .099 | .00016 | .082 | .169 | .00004 |
| %RSD | .24721 | .35698 | .30448 | .16835 | .82965 | .07047 | .20603 | 1.5970 | .35529 |
| #1 | .07881 | .16174 | .35296 | 190.53 | 12.003 | .22345 | 40.071 | 10.489 | .01257 |
| #2 | .07909 | .16256 | .35144 | 190.08 | 11.863 | .22322 | 39.954 | 10.728 | .01250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59907** | **.19133** | **4.6482** | **.06425** | **.13880** | **-.00493** | **.00244** | **2.7145** | **.00456** |
| Stddev | .00994 | .00020 | .0002 | .00005 | .00094 | .00186 | .00205 | .0377 | .00070 |
| %RSD | 1.6585 | .10472 | .00494 | .07200 | .68025 | 37.700 | 83.672 | 1.3896 | 15.367 |
| #1 | .59205 | .19119 | 4.6481 | .06422 | .13947 | -.00362 | .00389 | 2.6878 | .00506 |
| #2 | .60610 | .19147 | 4.6484 | .06428 | .13814 | -.00625 | .00100 | 2.7412 | .00407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05344** | **.11330** | **.40801** | **-.00857** | **-.04549** | **.15735** | **.56548** | **.03932** |
| Stddev | .00012 | .00343 | .00986 | .00003 | .00787 | .00024 | .00165 | .00196 |
| %RSD | .22597 | 3.0256 | 2.4175 | .38119 | 17.310 | .15463 | .29121 | 4.9773 |
| #1 | .05353 | .11087 | .41499 | -.00859 | -.03992 | .15752 | .56665 | .03793 |
| #2 | .05336 | .11572 | .40104 | -.00855 | -.05106 | .15717 | .56432 | .04070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6049.4** | **75306.** | **3645.0** |
| Stddev | 11.5 | 136. | 7.8 |
| %RSD | .18977 | .18077 | .21389 |
| #1 | 6057.6 | 75210. | 3639.5 |
| #2 | 6041.3 | 75402. | 3650.5 |

Sample Name: 280-42158-A-24-C  Acquired: 5/17/2013 21:19:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00165** | **80.615** | **.05280** | **.02065** | **.35173** | **.00350** | **.00392** | **14.826** | **.00192** |
| Stddev | .00043 | .215 | .00019 | .00017 | .00067 | .00006 | .00094 | .058 | .00018 |
| %RSD | 25.881 | .26664 | .36249 | .82554 | .19060 | 1.7668 | 24.113 | .38939 | 9.1179 |
| #1 | .00135 | 80.767 | .05293 | .02053 | .35221 | .00355 | .00325 | 14.867 | .00204 |
| #2 | .00196 | 80.463 | .05266 | .02077 | .35126 | .00346 | .00459 | 14.785 | .00180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08409** | **.11020** | **.39344** | **185.89** | **11.727** | **.21507** | **40.646** | W **12.370** | **.00434** |
| Stddev | .00006 | .00017 | .00195 | .04 | .096 | .00014 | .056 | .048 | .00020 |
| %RSD | .06672 | .15592 | .49663 | .02140 | .81469 | .06596 | .13790 | .39012 | 4.5199 |
| #1 | .08413 | .11032 | .39482 | 185.92 | 11.794 | .21497 | 40.685 | 12.335 | .00448 |
| #2 | .08405 | .11008 | .39206 | 185.86 | 11.659 | .21517 | 40.606 | 12.404 | .00420 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55825** | **.20017** | **5.9956** | **.07812** | **.07161** | **-.00333** | **.00291** | **1.6882** | **.00539** |
| Stddev | .01897 | .00005 | .0043 | .00081 | .00151 | .00018 | .00442 | .0221 | .00008 |
| %RSD | 3.3988 | .02720 | .07101 | 1.0354 | 2.1138 | 5.2707 | 151.69 | 1.3099 | 1.4177 |
| #1 | .57167 | .20013 | 5.9926 | .07755 | .07054 | -.00346 | -.00021 | 1.7038 | .00544 |
| #2 | .54483 | .20021 | 5.9986 | .07869 | .07268 | -.00321 | .00604 | 1.6725 | .00534 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06333** | **.09644** | **.62744** | **-.00844** | **-.00253** | **.15119** | **.58799** | **.05038** |
| Stddev | .00003 | .00043 | .00376 | .00056 | .01847 | .00090 | .00204 | .00380 |
| %RSD | .04057 | .44800 | .59980 | 6.6390 | 729.58 | .59633 | .34724 | 7.5463 |
| #1 | .06331 | .09613 | .63010 | -.00883 | -.01559 | .15182 | .58655 | .05307 |
| #2 | .06335 | .09674 | .62478 | -.00804 | .01053 | .15055 | .58943 | .04769 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6135.2** | **76212.** | **3719.4** |
| Stddev | .9 | 51. | 2.1 |
| %RSD | .01434 | .06698 | .05767 |
| #1 | 6134.5 | 76248. | 3717.9 |
| #2 | 6135.8 | 76175. | 3720.9 |

Sample Name: 280-42158-A-25-C  Acquired: 5/17/2013 21:21:33  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00170** | **99.163** | **.03587** | **.01649** | **.64416** | **.00328** | **.00458** | **11.292** | **.00242** |
| Stddev | .00082 | .452 | .00077 | .00077 | .00404 | .00006 | .00195 | .037 | .00000 |
| %RSD | 48.216 | .45605 | 2.1564 | 4.6887 | .62679 | 1.7278 | 42.702 | .33090 | .18722 |
| #1 | .00112 | 99.483 | .03641 | .01704 | .64701 | .00332 | .00596 | 11.319 | .00242 |
| #2 | .00228 | 98.844 | .03532 | .01595 | .64130 | .00324 | .00319 | 11.266 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05323** | **.09940** | **.16900** | **148.14** | **8.6518** | **.15940** | **19.752** | **9.6476** | **.00376** |
| Stddev | .00019 | .00007 | .00107 | .33 | .0057 | .00209 | .014 | .1272 | .00050 |
| %RSD | .36308 | .06872 | .63106 | .22065 | .06588 | 1.3125 | .07133 | 1.3183 | 13.359 |
| #1 | .05337 | .09945 | .16975 | 148.37 | 8.6558 | .16088 | 19.762 | 9.5577 | .00412 |
| #2 | .05309 | .09935 | .16824 | 147.91 | 8.6477 | .15792 | 19.742 | 9.7375 | .00341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51738** | **.10501** | **9.4892** | **.10805** | **1.5965** | **-.00195** | **.00579** | **2.6010** | **.00958** |
| Stddev | .00403 | .00017 | .0221 | .00119 | .0014 | .00050 | .00362 | .0708 | .00057 |
| %RSD | .77970 | .16286 | .23248 | 1.1038 | .09110 | 25.607 | 62.611 | 2.7213 | 5.9075 |
| #1 | .52023 | .10513 | 9.4736 | .10889 | 1.5955 | -.00230 | .00322 | 2.6510 | .00998 |
| #2 | .51452 | .10489 | 9.5048 | .10720 | 1.5975 | -.00160 | .00835 | 2.5509 | .00918 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04599** | **.07579** | **.77060** | **-.00768** | **.00651** | **.19571** | **.60766** | **.01488** |
| Stddev | .00014 | .00282 | .00748 | .00061 | .04115 | .00005 | .00212 | .00137 |
| %RSD | .31471 | 3.7210 | .97042 | 7.9616 | 632.15 | .02804 | .34905 | 9.2118 |
| #1 | .04588 | .07379 | .77589 | -.00811 | -.02259 | .19568 | .60616 | .01391 |
| #2 | .04609 | .07778 | .76531 | -.00725 | .03560 | .19575 | .60916 | .01585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5555.6** | **68190.** | **3355.2** |
| Stddev | 7.9 | 8. | 6.6 |
| %RSD | .14234 | .01210 | .19812 |
| #1 | 5550.0 | 68196. | 3350.5 |
| #2 | 5561.2 | 68184. | 3359.9 |

Sample Name: 280-42158-A-26-C  Acquired: 5/17/2013 21:23:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00247** | **99.153** | **.03458** | **.02003** | **.67433** | **.00392** | **.00273** | **14.150** | **.00240** |
| Stddev | .00062 | .509 | .00020 | .00014 | .00238 | .00020 | .00421 | .068 | .00003 |
| %RSD | 24.947 | .51292 | .56754 | .68210 | .35341 | 5.2270 | 154.14 | .48353 | 1.3706 |
| #1 | .00290 | 99.512 | .03444 | .01994 | .67601 | .00406 | -.00025 | 14.198 | .00243 |
| #2 | .00203 | 98.793 | .03472 | .02013 | .67264 | .00377 | .00570 | 14.101 | .00238 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05836** | **.10485** | **.23185** | **164.53** | **10.349** | **.17680** | **23.710** | W **12.457** | **.00382** |
| Stddev | .00006 | .00009 | .00062 | 1.42 | .067 | .00165 | .037 | .091 | .00004 |
| %RSD | .10267 | .08463 | .26584 | .86436 | .64664 | .93115 | .15729 | .72809 | 1.1067 |
| #1 | .05840 | .10492 | .23229 | 163.53 | 10.396 | .17563 | 23.736 | 12.392 | .00379 |
| #2 | .05832 | .10479 | .23141 | 165.54 | 10.302 | .17796 | 23.683 | 12.521 | .00385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54287** | **.11377** | **8.4582** | **.11080** | **1.8467** | **-.00182** | **.00299** | **2.4290** | **.00988** |
| Stddev | .01100 | .00023 | .0048 | .00014 | .0011 | .00059 | .00336 | .0004 | .00077 |
| %RSD | 2.0258 | .20322 | .05706 | .12385 | .05829 | 32.524 | 112.18 | .01798 | 7.7815 |
| #1 | .55065 | .11393 | 8.4617 | .11090 | 1.8475 | -.00140 | .00537 | 2.4287 | .00933 |
| #2 | .53509 | .11360 | 8.4548 | .11071 | 1.8459 | -.00224 | .00062 | 2.4294 | .01042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05806** | **.08099** | **.70119** | **-.00974** | **-.01145** | **.19151** | **.57988** | **.01612** |
| Stddev | .00012 | .00070 | .00001 | .00143 | .00281 | .00071 | .00196 | .00410 |
| %RSD | .20339 | .86355 | .00175 | 14.701 | 24.557 | .37313 | .33764 | 25.452 |
| #1 | .05798 | .08049 | .70118 | -.00873 | -.00946 | .19201 | .58126 | .01902 |
| #2 | .05815 | .08148 | .70119 | -.01075 | -.01343 | .19100 | .57849 | .01322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5620.6** | **69582.** | **3404.3** |
| Stddev | 10.0 | 175. | 20.5 |
| %RSD | .17829 | .25139 | .60283 |
| #1 | 5613.5 | 69458. | 3389.8 |
| #2 | 5627.7 | 69705. | 3418.8 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 21:26:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **46.656** | **-.00031** | **-.00034** | **.00086** | **-.00015** | **1.0128** | **-.00252** | **-.00078** | **.00184** | **-.00005** | **-.00106** |
| Stddev | .00006 | .120 | .00122 | .00014 | .00018 | .00005 | .0099 | .00308 | .00026 | .00012 | .00015 | .00048 |
| %RSD | 16.383 | .25755 | 389.65 | 41.534 | 21.206 | 34.661 | .98122 | 122.31 | 33.625 | 6.6290 | 266.95 | 45.024 |
| #1 | .00039 | 46.571 | -.00117 | -.00044 | .00099 | -.00019 | 1.0199 | -.00469 | -.00059 | .00193 | .00005 | -.00139 |
| #2 | .00031 | 46.741 | .00055 | -.00024 | .00073 | -.00012 | 1.0058 | -.00034 | -.00096 | .00176 | -.00016 | -.00072 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.812** | **.23816** | **-.00430** | **.01430** | **.00152** | **-.00158** | F **292.79** | **.00172** | **.00751** | **.00020** | **5.0815** | **.00037** |
| Stddev | .086 | .01998 | .00155 | .00068 | .00007 | .00054 | .01 | .00003 | .00216 | .00073 | .0186 | .00195 |
| %RSD | .22086 | 8.3893 | 36.056 | 4.7236 | 4.3573 | 34.231 | .00294 | 1.5370 | 28.771 | 356.33 | .36623 | 526.24 |
| #1 | 38.752 | .22403 | -.00540 | .01382 | .00157 | -.00120 | 292.80 | .00171 | .00904 | .00072 | 5.0946 | .00175 |
| #2 | 38.873 | .25229 | -.00320 | .01477 | .00148 | -.00197 | 292.79 | .00174 | .00598 | -.00031 | 5.0683 | -.00101 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00427** | **.01162** | **-.00085** | **.00032** | **5.1782** | **.00306** | **-.00233** | **10.141** | **-.00000** | **.00302** | **-.05771** |
| Stddev | .00306 | .03248 | .00045 | .00010 | .0005 | .00047 | .00046 | .040 | .00025 | .00018 | .00024 |
| %RSD | 71.682 | 279.61 | 52.487 | 32.269 | .01033 | 15.203 | 19.537 | .39480 | 35401. | 5.8706 | .40926 |
| #1 | .00643 | -.01135 | -.00053 | .00040 | 5.1786 | .00273 | -.00201 | 10.170 | .00018 | .00315 | -.05787 |
| #2 | .00210 | .03458 | -.00117 | .00025 | 5.1779 | .00339 | -.00266 | 10.113 | -.00018 | .00290 | -.05754 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5264.5** | **65642.** | **3133.8** |
| Stddev | 6.2 | 378. | 4.7 |
| %RSD | .11780 | .57635 | .14901 |
| #1 | 5260.2 | 65374. | 3137.2 |
| #2 | 5268.9 | 65909. | 3130.5 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 21:28:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50894** | **.53879** | **.98653** | **.51034** | **.51695** | F **.43743** | **.00479** | **4.6153** | **.49764** | **.50455** | **.48640** | **.48185** |
| Stddev | .00027 | .00379 | .00241 | .00093 | .00540 | .00347 | .00014 | .0087 | .00128 | .00107 | .00027 | .00059 |
| %RSD | .05341 | .70271 | .24392 | .18243 | 1.0450 | .79380 | 2.9252 | .18946 | .25652 | .21292 | .05520 | .12179 |
| #1 | .50875 | .53612 | .98483 | .50968 | .52077 | .43988 | .00469 | 4.6215 | .49674 | .50379 | .48659 | .48226 |
| #2 | .50913 | .54147 | .98823 | .51100 | .51313 | .43497 | .00488 | 4.6091 | .49854 | .50531 | .48621 | .48143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0037** | F **57.725** | F **1.1424** | **19.746** | **.50043** | **.47762** | **5.3437** | **.49606** | **1.0137** | **.99316** | **-.06244** | **.99616** |
| Stddev | .0025 | .389 | .0085 | .008 | .00123 | .00091 | .0675 | .00097 | .0003 | .00397 | .00196 | .00348 |
| %RSD | .12308 | .67462 | .74602 | .03975 | .24601 | .19148 | 1.2624 | .19578 | .03169 | .39959 | 3.1368 | .34968 |
| #1 | 2.0054 | 58.000 | 1.1484 | 19.751 | .49956 | .47697 | 5.3914 | .49538 | 1.0135 | .99036 | -.06382 | .99369 |
| #2 | 2.0020 | 57.449 | 1.1364 | 19.740 | .50130 | .47826 | 5.2960 | .49675 | 1.0139 | .99597 | -.06105 | .99862 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0105** | F **4.2658** | **.95390** | **.52202** | **.00434** | **.49072** | **.96261** | **.05038** | **.48477** | **.49924** | **.45975** |
| Stddev | .0076 | .0069 | .00229 | .00308 | .00089 | .00014 | .00196 | .01278 | .00071 | .00165 | .00769 |
| %RSD | .75515 | .16120 | .23985 | .59007 | 20.570 | .02798 | .20362 | 25.366 | .14659 | .32986 | 1.6725 |
| #1 | 1.0051 | 4.2707 | .95228 | .52420 | .00497 | .49063 | .96123 | .04134 | .48427 | .49808 | .46519 |
| #2 | 1.0159 | 4.2610 | .95552 | .51984 | .00371 | .49082 | .96400 | .05942 | .48527 | .50041 | .45431 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5294.5** | **65914.** | **3147.1** |
| Stddev | 24.8 | 26. | 6.5 |
| %RSD | .46860 | .03955 | .20565 |
| #1 | 5312.1 | 65896. | 3142.5 |
| #2 | 5277.0 | 65933. | 3151.7 |

Sample Name: CCB Acquired: 5/17/2013 21:31:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | F **.08457** | **.00121** | **-.00090** | F **.00135** | **-.00003** | **.00272** | **.00858** | **-.00010** | **.00026** | **.00017** |
| Stddev | .00006 | .00155 | .00244 | .00053 | .00000 | .00008 | .00157 | .00525 | .00001 | .00016 | .00010 |
| %RSD | 24.848 | 1.8300 | 201.27 | 59.021 | .28501 | 277.20 | 57.737 | 61.194 | 9.9227 | 62.350 | 55.428 |
| #1 | .00021 | .08566 | .00293 | -.00052 | .00135 | .00003 | .00161 | .01229 | -.00009 | .00038 | .00024 |
| #2 | .00030 | .08347 | -.00051 | -.00127 | .00136 | -.00008 | .00383 | .00487 | -.00010 | .00015 | .00011 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .03600 | | | .00115 | | | | | | |
| Low Limit | | -.03600 | | | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | F **.13839** | **.18183** | W **-.00271** | F **.02902** | F **.00948** | **.00041** | **.02341** | **.00091** | **.00657** | **.00126** |
| Stddev | .00033 | .00012 | .01656 | .00089 | .00333 | .00008 | .00007 | .01096 | .00028 | .00088 | .00025 |
| %RSD | 77.649 | .08923 | 9.1071 | 32.931 | 11.489 | .81864 | 16.486 | 46.810 | 30.367 | 13.369 | 19.613 |
| #1 | .00065 | .13848 | .17012 | -.00335 | .03138 | .00953 | .00045 | .03115 | .00071 | .00595 | .00109 |
| #2 | .00019 | .13830 | .19354 | -.00208 | .02667 | .00942 | .00036 | .01566 | .00110 | .00720 | .00144 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | | .00261 | .02140 | .00051 | | | | | |
| Low Limit | | -.04400 | | -.00261 | -.02140 | -.00051 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06006** | **.00081** | **.00418** | **.00569** | **-.00052** | **-.00002** | **.00236** | W **.00060** | **-.00092** | **.03256** | W **.00118** |
| Stddev | .00046 | .00177 | .00087 | .03117 | .00001 | .00000 | .00121 | .00025 | .00020 | .05201 | .00061 |
| %RSD | .77425 | 218.70 | 20.803 | 547.74 | 1.0161 | 24.168 | 51.069 | 40.968 | 21.378 | 159.71 | 51.885 |
| #1 | -.06038 | .00206 | .00356 | -.01635 | -.00052 | -.00002 | .00321 | .00043 | -.00106 | .06934 | .00161 |
| #2 | -.05973 | -.00044 | .00479 | .02773 | -.00053 | -.00002 | .00151 | .00078 | -.00078 | -.00421 | .00074 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | .00060 | | | .00111 |
| Low Limit | | | | | | | | -.00060 | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00319** | **.00200** |
| Stddev | .00017 | .00160 |
| %RSD | 5.4217 | 80.057 |
| #1 | .00307 | .00313 |
| #2 | .00331 | .00087 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5334.9** | **66373.** | **3087.6** |
| Stddev | 16.3 | 88. | .8 |
| %RSD | .30612 | .13217 | .02648 |
| #1 | 5346.4 | 66435. | 3087.0 |
| #2 | 5323.4 | 66311. | 3088.2 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 21:33:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01074** | F **.16107** | **.01331** | **.10018** | **.01167** | W **.00076** | **.10343** | **.19448** | **.00507** | **.01053** | **.01006** |
| Stddev | .00068 | .00662 | .00065 | .00088 | .00013 | .00001 | .00218 | .00173 | .00009 | .00013 | .00018 |
| %RSD | 6.3525 | 4.1099 | 4.8705 | .88065 | 1.1334 | 1.0959 | 2.1087 | .88972 | 1.7238 | 1.2008 | 1.7879 |
| #1 | .01122 | .16575 | .01286 | .09956 | .01176 | .00077 | .10188 | .19571 | .00501 | .01062 | .00993 |
| #2 | .01026 | .15639 | .01377 | .10081 | .01157 | .00075 | .10497 | .19326 | .00514 | .01044 | .01018 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | .00100 | | | | | |
| Range | | 30.000% | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01421** | F **.18293** | W **3.7614** | F **.00671** | **.22482** | F **.01729** | **.01940** | **1.1559** | **.04093** | **2.9192** | **.01021** |
| Stddev | .00024 | .00340 | .0345 | .00035 | .00279 | .00016 | .00004 | .0071 | .00029 | .0211 | .00007 |
| %RSD | 1.7080 | 1.8602 | .91849 | 5.2088 | 1.2407 | .90519 | .21011 | .61380 | .70000 | .72219 | .73142 |
| #1 | .01438 | .18534 | 3.7370 | .00696 | .22285 | .01740 | .01942 | 1.1509 | .04073 | 2.9043 | .01016 |
| #2 | .01404 | .18052 | 3.7859 | .00646 | .22679 | .01718 | .01937 | 1.1609 | .04114 | 2.9341 | .01026 |
| Check ? | Chk Pass | Chk Fail | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | .01000 | | | | | |
| Range | | 30.000% | 20.000% | -30.000% | | 30.000% | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05990** | F **.01392** | **.01795** | **.41484** | **.09415** | **.01062** | W **.01819** | **.00992** | **.01361** | F **.08079** | **.01014** |
| Stddev | .00250 | .00275 | .00286 | .01045 | .00067 | .00012 | .00138 | .00007 | .00029 | .00390 | .00051 |
| %RSD | 4.1660 | 19.764 | 15.943 | 2.5197 | .71166 | 1.1149 | 7.6032 | .69614 | 2.1188 | 4.8304 | 5.0721 |
| #1 | -.05813 | .01587 | .01997 | .42223 | .09367 | .01070 | .01917 | .00997 | .01381 | .08354 | .01051 |
| #2 | -.06166 | .01198 | .01592 | .40744 | .09462 | .01053 | .01722 | .00987 | .01341 | .07803 | .00978 |
| Check ? | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | .01500 | | | .06000 | |
| Range | | 30.000% | | | | | 20.000% | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02307** | **.01510** |
| Stddev | .00043 | .00064 |
| %RSD | 1.8644 | 4.2498 |
| #1 | .02338 | .01465 |
| #2 | .02277 | .01556 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5318.2** | **66451.** | **3128.4** |
| Stddev | 7.2 | 252. | 6.9 |
| %RSD | .13568 | .37964 | .22193 |
| #1 | 5323.3 | 66272. | 3133.3 |
| #2 | 5313.1 | 66629. | 3123.5 |

Sample Name: 280-42158-A-27-E  Acquired: 5/17/2013 21:36:02  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00203** | **81.838** | **.05003** | **.02150** | **.36426** | **.00435** | **.00583** | **12.930** | **.00154** |
| Stddev | .00030 | .189 | .00418 | .00011 | .00167 | .00009 | .00035 | .040 | .00008 |
| %RSD | 14.547 | .23113 | 8.3628 | .50773 | .45721 | 2.1775 | 5.9428 | .30750 | 5.1049 |
| #1 | .00182 | 81.704 | .05298 | .02143 | .36308 | .00429 | .00558 | 12.902 | .00160 |
| #2 | .00224 | 81.972 | .04707 | .02158 | .36544 | .00442 | .00607 | 12.959 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07573** | **.12493** | **.34387** | **191.53** | **12.320** | **.20306** | **36.849** | **9.4855** | **.00809** |
| Stddev | .00007 | .00033 | .00085 | .44 | .062 | .00232 | .060 | .0404 | .00010 |
| %RSD | .09219 | .26555 | .24848 | .22813 | .50125 | 1.1415 | .16166 | .42598 | 1.1812 |
| #1 | .07568 | .12469 | .34448 | 191.22 | 12.276 | .20470 | 36.891 | 9.4570 | .00802 |
| #2 | .07578 | .12516 | .34327 | 191.84 | 12.364 | .20142 | 36.807 | 9.5141 | .00816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68265** | **.17661** | **4.9789** | **.07906** | **.25665** | **-.00362** | **.00315** | **2.1791** | **.00547** |
| Stddev | .00031 | .00026 | .0069 | .00290 | .00257 | .00102 | .00490 | .0180 | .00081 |
| %RSD | .04472 | .14599 | .13795 | 3.6642 | 1.0005 | 28.226 | 155.55 | .82486 | 14.849 |
| #1 | .68243 | .17643 | 4.9741 | .08111 | .25847 | -.00434 | .00661 | 2.1664 | .00489 |
| #2 | .68287 | .17679 | 4.9838 | .07702 | .25484 | -.00290 | -.00031 | 2.1918 | .00604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05381** | **.10288** | **.37728** | **-.00796** | **-.02141** | **.14934** | **.63979** | **.03094** |
| Stddev | .00020 | .00349 | .00008 | .00038 | .02742 | .00057 | .00027 | .00101 |
| %RSD | .36332 | 3.3891 | .02187 | 4.8064 | 128.04 | .37975 | .04202 | 3.2806 |
| #1 | .05367 | .10041 | .37722 | -.00769 | -.00203 | .14894 | .63960 | .03165 |
| #2 | .05395 | .10535 | .37734 | -.00823 | -.04080 | .14974 | .63998 | .03022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6079.0** | **75792.** | **3646.4** |
| Stddev | 1.0 | 26. | 7.9 |
| %RSD | .01585 | .03453 | .21761 |
| #1 | 6078.3 | 75811. | 3652.0 |
| #2 | 6079.7 | 75774. | 3640.7 |

Sample Name: sd 42158-A-27-E@5 Acquired: 5/17/2013 21:38:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00117** | **18.986** | k **.00813** | **.00439** | **.08384** | k **.00082** | k **.00323** | **2.9895** | k **.00041** |
| Stddev | .00016 | .014 | .00089 | .00072 | .00045 | .00005 | .00140 | .0032 | .00006 |
| %RSD | 13.555 | .07366 | 10.899 | 16.430 | .53413 | 6.2424 | 43.464 | .10538 | 14.283 |
| #1 | k .00106 | 18.976 | k .00750 | .00490 | .08416 | k .00078 | k .00223 | 2.9873 | k .00037 |
| #2 | k .00129 | 18.996 | k .00875 | .00388 | .08353 | k .00086 | k .00422 | 2.9917 | k .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01755** | **.02851** | k **.07670** | k **44.315** | **2.9390** | **.04124** | k **8.4377** | **2.2309** | **.00196** |
| Stddev | .00026 | .00018 | .00031 | .114 | .0538 | .00061 | .0033 | .0026 | .00010 |
| %RSD | 1.5075 | .63640 | .40741 | .25716 | 1.8305 | 1.4805 | .03913 | .11687 | 4.9898 |
| #1 | k .01773 | .02838 | k .07648 | k 44.234 | 2.9009 | .04167 | k 8.4353 | 2.2290 | .00202 |
| #2 | k .01736 | .02864 | k .07692 | k 44.395 | 2.9770 | .04081 | k 8.4400 | 2.2327 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13450** | **.04026** | **1.1290** | k **.02031** | **.01130** | k **-.00049** | k **.00462** | **.64476** | k **.00021** |
| Stddev | .00167 | .00050 | .0005 | .00013 | .00009 | .00133 | .00019 | .05325 | .00028 |
| %RSD | 1.2440 | 1.2341 | .04240 | .63533 | .82795 | 271.90 | 4.1340 | 8.2584 | 134.44 |
| #1 | .13568 | .03991 | 1.1286 | k .02040 | .01137 | k -.00143 | k .00448 | .68241 | k .00041 |
| #2 | .13332 | .04061 | 1.1293 | k .02022 | .01123 | k .00045 | k .00475 | .60710 | k .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01246** | k **.05754** | k **.08804** | k **-.00233** | k **-.01356** | k **.03504** | **.15084** | k **.01059** |
| Stddev | .00009 | .00053 | .00139 | .00081 | .01690 | .00057 | .00111 | .00215 |
| %RSD | .70536 | .92729 | 1.5834 | 34.873 | 124.58 | 1.6336 | .73335 | 20.344 |
| #1 | .01240 | k .05792 | k .08706 | k -.00291 | k -.02551 | k .03545 | .15162 | k .01211 |
| #2 | .01252 | k .05716 | k .08903 | k -.00176 | k -.00161 | k .03464 | .15006 | k .00906 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5448.5** | **67750.** | **3207.8** |
| Stddev | 12.4 | 130. | 5.9 |
| %RSD | .22787 | .19203 | .18471 |
| #1 | 5457.3 | 67842. | 3212.0 |
| #2 | 5439.8 | 67658. | 3203.6 |

Sample Name: 280-42158-A-27-F MS  Acquired: 5/17/2013 21:40:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04640** | **115.94** | **.85175** | **.89307** | **2.1637** | **.04145** | **1.6914** | **49.588** | **.08570** |
| Stddev | .00131 | .61 | .00589 | .00085 | .0085 | .00014 | .0087 | .323 | .00007 |
| %RSD | 2.8210 | .52784 | .69111 | .09496 | .39489 | .33776 | .51580 | .65076 | .08058 |
| #1 | .04732 | 116.37 | .84759 | .89247 | 2.1697 | .04155 | 1.6852 | 49.816 | .08565 |
| #2 | .04547 | 115.50 | .85592 | .89367 | 2.1576 | .04135 | 1.6976 | 49.359 | .08575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47591** | **.32887** | **.50944** | **169.87** | **78.161** | **1.1455** | **79.958** | **8.3159** | **.78722** |
| Stddev | .00066 | .00102 | .00134 | .45 | .377 | .0039 | .095 | .1313 | .00058 |
| %RSD | .13787 | .30959 | .26314 | .26377 | .48225 | .33885 | .11863 | 1.5788 | .07319 |
| #1 | .47544 | .32815 | .50850 | 170.19 | 78.428 | 1.1482 | 79.891 | 8.2231 | .78682 |
| #2 | .47637 | .32959 | .51039 | 169.56 | 77.895 | 1.1427 | 80.025 | 8.4088 | .78763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.283** | **.54711** | **12.970** | **.46808** | **.22485** | **.21402** | **1.6620** | **3.6503** | **1.5310** |
| Stddev | .302 | .00033 | .001 | .00105 | .00290 | .00255 | .0072 | .0230 | .0080 |
| %RSD | .58800 | .06032 | .00984 | .22341 | 1.2903 | 1.1899 | .43015 | .63063 | .51949 |
| #1 | 51.497 | .54688 | 12.969 | .46734 | .22690 | .21582 | 1.6570 | 3.6340 | 1.5254 |
| #2 | 51.070 | .54735 | 12.971 | .46882 | .22279 | .21222 | 1.6671 | 3.6666 | 1.5366 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92848** | **.93540** | **1.3622** | **1.5550** | **1.6867** | **.62596** | **.96710** | **.41669** |
| Stddev | .00439 | .00206 | .0051 | .0038 | .0295 | .00009 | .00175 | .00005 |
| %RSD | .47247 | .22010 | .37379 | .24214 | 1.7470 | .01472 | .18125 | .01202 |
| #1 | .93159 | .93685 | 1.3586 | 1.5524 | 1.6658 | .62589 | .96834 | .41673 |
| #2 | .92538 | .93394 | 1.3658 | 1.5577 | 1.7075 | .62602 | .96586 | .41666 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5955.2** | **74692.** | **3585.6** |
| Stddev | 2.7 | 145. | 33.0 |
| %RSD | .04604 | .19436 | .91978 |
| #1 | 5953.3 | 74590. | 3562.3 |
| #2 | 5957.2 | 74795. | 3608.9 |

Sample Name: 280-42158-A-27-G MSD  Acquired: 5/17/2013 21:43:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04642** | **104.63** | **.86310** | **.90327** | **2.1525** | **.04141** | **1.7144** | **51.394** | **.08688** |
| Stddev | .00118 | .40 | .00132 | .00070 | .0063 | .00023 | .0033 | .216 | .00015 |
| %RSD | 2.5483 | .38673 | .15252 | .07723 | .29202 | .55136 | .19152 | .42032 | .17537 |
| #1 | .04558 | 104.35 | .86403 | .90277 | 2.1481 | .04125 | 1.7167 | 51.241 | .08699 |
| #2 | .04725 | 104.92 | .86217 | .90376 | 2.1570 | .04157 | 1.7121 | 51.547 | .08677 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47379** | **.30152** | **.43670** | **150.88** | **75.607** | **1.1387** | **75.762** | **7.0948** | **.79827** |
| Stddev | .00069 | .00082 | .00013 | .55 | .412 | .0038 | .222 | .0612 | .00073 |
| %RSD | .14649 | .27098 | .02927 | .36276 | .54434 | .33311 | .29311 | .86187 | .09197 |
| #1 | .47330 | .30094 | .43680 | 150.49 | 75.316 | 1.1360 | 75.919 | 7.0515 | .79879 |
| #2 | .47428 | .30209 | .43661 | 151.26 | 75.898 | 1.1414 | 75.605 | 7.1380 | .79775 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.029** | **.53408** | **12.739** | **.47178** | **.25735** | **.22965** | **1.6915** | **3.6759** | **1.5603** |
| Stddev | .030 | .00093 | .006 | .00022 | .00169 | .00231 | .0055 | .0246 | .0032 |
| %RSD | .05769 | .17485 | .04417 | .04677 | .65646 | 1.0045 | .32412 | .66908 | .20477 |
| #1 | 52.050 | .53341 | 12.735 | .47162 | .25854 | .22802 | 1.6876 | 3.6585 | 1.5581 |
| #2 | 52.008 | .53474 | 12.743 | .47193 | .25615 | .23128 | 1.6953 | 3.6933 | 1.5626 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92985** | **.93893** | **1.4709** | **1.5842** | **1.7000** | **.60878** | **.89932** | **.39862** |
| Stddev | .00542 | .00188 | .0039 | .0015 | .0379 | .00212 | .00137 | .00173 |
| %RSD | .58253 | .20059 | .26574 | .09549 | 2.2325 | .34822 | .15227 | .43502 |
| #1 | .92602 | .94026 | 1.4736 | 1.5853 | 1.6732 | .61028 | .89835 | .39984 |
| #2 | .93368 | .93759 | 1.4681 | 1.5832 | 1.7268 | .60728 | .90029 | .39739 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5902.8** | **74021.** | **3575.0** |
| Stddev | 12.5 | 161. | 21.0 |
| %RSD | .21114 | .21691 | .58768 |
| #1 | 5911.6 | 73908. | 3589.9 |
| #2 | 5894.0 | 74135. | 3560.2 |

Sample Name: pds 280-42158-A-27-E  Acquired: 5/17/2013 21:45:28  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03943** | **81.538** | **.22033** | **.11173** | **.45491** | **.04342** | **.00431** | **28.800** | **.04682** |
| Stddev | .00004 | .061 | .00458 | .00065 | .00006 | .00010 | .00011 | .071 | .00004 |
| %RSD | .10962 | .07537 | 2.0776 | .58190 | .01304 | .22340 | 2.5154 | .24603 | .08928 |
| #1 | .03946 | 81.581 | .21710 | .11219 | .45495 | .04335 | .00439 | 28.750 | .04685 |
| #2 | .03940 | 81.494 | .22357 | .11127 | .45487 | .04349 | .00423 | 28.850 | .04679 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11888** | **.16605** | **.38540** | **189.56** | **32.984** | **.30188** | **54.106** | **9.3529** | **.04940** |
| Stddev | .00062 | .00059 | .00045 | .59 | .029 | .00280 | .051 | .0631 | .00012 |
| %RSD | .52338 | .35647 | .11626 | .31263 | .08766 | .92834 | .09485 | .67499 | .23542 |
| #1 | .11844 | .16563 | .38572 | 189.14 | 32.964 | .29990 | 54.143 | 9.3082 | .04948 |
| #2 | .11932 | .16647 | .38508 | 189.98 | 33.005 | .30386 | 54.070 | 9.3975 | .04931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.281** | **.21468** | **6.7107** | **.16654** | **.25436** | **.08402** | **.18292** | **6.1787** | **.08813** |
| Stddev | .340 | .00038 | .0095 | .00175 | .00257 | .00109 | .00443 | .0175 | .00052 |
| %RSD | 1.4599 | .17593 | .14136 | 1.0536 | 1.0110 | 1.2978 | 2.4202 | .28267 | .59257 |
| #1 | 23.521 | .21442 | 6.7040 | .16530 | .25254 | .08325 | .18605 | 6.1663 | .08776 |
| #2 | 23.040 | .21495 | 6.7175 | .16778 | .25617 | .08479 | .17979 | 6.1910 | .08850 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10120** | **.28354** | **.42813** | **.16392** | **.46509** | **.19286** | **.80801** | **.07010** |
| Stddev | .00015 | .00440 | .00418 | .00014 | .01638 | .00060 | .00084 | .00098 |
| %RSD | .14691 | 1.5513 | .97649 | .08472 | 3.5227 | .31105 | .10450 | 1.3922 |
| #1 | .10131 | .28665 | .42517 | .16382 | .47667 | .19328 | .80861 | .07079 |
| #2 | .10110 | .28043 | .43108 | .16402 | .45350 | .19243 | .80742 | .06941 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5997.5** | **75344.** | **3616.9** |
| Stddev | 13.3 | 71. | 3.7 |
| %RSD | .22233 | .09372 | .10361 |
| #1 | 6007.0 | 75394. | 3619.6 |
| #2 | 5988.1 | 75294. | 3614.3 |

Sample Name: 280-42158-A-28-B Acquired: 5/17/2013 21:47:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **85.788** | **.03597** | **.01545** | **.41641** | **.00299** | **.00268** | **6.3654** | **.00205** |
| Stddev | .00027 | .301 | .00068 | .00044 | .00062 | .00007 | .00079 | .0060 | .00010 |
| %RSD | 23.281 | .35104 | 1.8804 | 2.8664 | .14930 | 2.1977 | 29.460 | .09394 | 4.9023 |
| #1 | .00098 | 85.575 | .03550 | .01514 | .41597 | .00295 | .00212 | 6.3697 | .00198 |
| #2 | .00136 | 86.001 | .03645 | .01577 | .41685 | .00304 | .00323 | 6.3612 | .00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05709** | **.14196** | **.21398** | **146.30** | **10.672** | **.15956** | **33.031** | **6.7138** | **.00447** |
| Stddev | .00026 | .00017 | .00065 | .35 | .013 | .00014 | .034 | .0146 | .00014 |
| %RSD | .45941 | .12143 | .30568 | .23740 | .11780 | .09030 | .10396 | .21690 | 3.0251 |
| #1 | .05728 | .14208 | .21352 | 146.54 | 10.681 | .15946 | 33.055 | 6.7241 | .00457 |
| #2 | .05691 | .14184 | .21444 | 146.05 | 10.664 | .15966 | 33.007 | 6.7035 | .00438 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72084** | **.13010** | **4.7068** | **.08776** | **.79005** | **-.00220** | **.00477** | **1.5737** | **.00625** |
| Stddev | .01348 | .00027 | .0067 | .00032 | .00040 | .00092 | .00162 | .0253 | .00043 |
| %RSD | 1.8705 | .20490 | .14139 | .36232 | .05097 | 41.696 | 33.958 | 1.6072 | 6.9078 |
| #1 | .73038 | .13028 | 4.7115 | .08754 | .78976 | -.00285 | .00591 | 1.5558 | .00594 |
| #2 | .71131 | .12991 | 4.7021 | .08799 | .79033 | -.00155 | .00362 | 1.5916 | .00655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02972** | **.07284** | **1.2549** | **-.00609** | **.02139** | **.19881** | **.49355** | **.00957** |
| Stddev | .00006 | .00056 | .0005 | .00030 | .05551 | .00012 | .00016 | .00267 |
| %RSD | .19717 | .77387 | .04059 | 4.9743 | 259.58 | .05813 | .03313 | 27.947 |
| #1 | .02968 | .07244 | 1.2553 | -.00588 | -.01787 | .19873 | .49367 | .00768 |
| #2 | .02976 | .07324 | 1.2546 | -.00631 | .06064 | .19889 | .49343 | .01146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5642.6** | **69416.** | **3320.7** |
| Stddev | 8.2 | 176. | 13.7 |
| %RSD | .14543 | .25342 | .41190 |
| #1 | 5636.8 | 69292. | 3330.4 |
| #2 | 5648.4 | 69541. | 3311.1 |

Sample Name: 280-42158-A-29-B Acquired: 5/17/2013 21:50:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | **78.362** | **.04098** | **.01714** | **.30027** | **.00317** | **.00511** | **9.7765** | **.00149** |
| Stddev | .00008 | .666 | .00281 | .00036 | .00191 | .00007 | .00458 | .1036 | .00012 |
| %RSD | 7.3495 | .84998 | 6.8520 | 2.1265 | .63555 | 2.0856 | 89.706 | 1.0596 | 8.0625 |
| #1 | .00106 | 77.891 | .04296 | .01740 | .29892 | .00322 | .00187 | 9.7033 | .00141 |
| #2 | .00117 | 78.833 | .03899 | .01688 | .30162 | .00312 | .00834 | 9.8498 | .00158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06190** | **.14938** | **.38987** | **157.96** | **9.8052** | **.17617** | **34.309** | **7.2934** | **.01547** |
| Stddev | .00016 | .00009 | .00178 | .70 | .0302 | .00047 | .026 | .0018 | .00031 |
| %RSD | .25980 | .06150 | .45568 | .44278 | .30811 | .26586 | .07680 | .02472 | 2.0057 |
| #1 | .06178 | .14945 | .39113 | 157.47 | 9.7838 | .17584 | 34.328 | 7.2946 | .01525 |
| #2 | .06201 | .14932 | .38862 | 158.46 | 9.8265 | .17650 | 34.290 | 7.2921 | .01569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67469** | **.14373** | **4.1271** | **.05437** | **.20632** | **-.00198** | **.00293** | **2.3029** | **.00395** |
| Stddev | .01790 | .00045 | .0072 | .00052 | .00110 | .00225 | .00457 | .0228 | .00047 |
| %RSD | 2.6523 | .31393 | .17442 | .95096 | .53410 | 113.84 | 155.73 | .99068 | 11.900 |
| #1 | .66204 | .14341 | 4.1220 | .05473 | .20554 | -.00039 | .00616 | 2.2867 | .00429 |
| #2 | .68735 | .14405 | 4.1322 | .05400 | .20710 | -.00357 | -.00030 | 2.3190 | .00362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04209** | **.09215** | **.39406** | **-.00630** | **-.00459** | **.13825** | **.51283** | **.02684** |
| Stddev | .00009 | .00188 | .00624 | .00234 | .01442 | .00181 | .00087 | .00211 |
| %RSD | .20929 | 2.0360 | 1.5823 | 37.072 | 313.90 | 1.3069 | .16999 | 7.8533 |
| #1 | .04215 | .09083 | .38965 | -.00796 | -.01479 | .13952 | .51344 | .02833 |
| #2 | .04202 | .09348 | .39847 | -.00465 | .00560 | .13697 | .51221 | .02535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5929.2** | **73407.** | **3534.1** |
| Stddev | 3.3 | 189. | 29.4 |
| %RSD | .05525 | .25707 | .83301 |
| #1 | 5926.9 | 73541. | 3554.9 |
| #2 | 5931.6 | 73274. | 3513.3 |

Sample Name: 280-42158-A-30-B Acquired: 5/17/2013 21:52:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00210** | **78.410** | **.04106** | **.02203** | **.34931** | **.00379** | **.00395** | **11.466** | **.00161** |
| Stddev | .00022 | .493 | .00181 | .00104 | .00108 | .00008 | .00317 | .086 | .00001 |
| %RSD | 10.537 | .62930 | 4.4055 | 4.7071 | .30937 | 2.0929 | 80.138 | .74754 | .66764 |
| #1 | .00194 | 78.061 | .03978 | .02277 | .34854 | .00384 | .00619 | 11.405 | .00160 |
| #2 | .00225 | 78.759 | .04234 | .02130 | .35007 | .00373 | .00171 | 11.526 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06674** | **.11680** | **.29303** | **169.56** | **11.599** | **.18762** | **35.890** | **8.2437** | **.00631** |
| Stddev | .00046 | .00038 | .00163 | .16 | .023 | .00018 | .104 | .0381 | .00011 |
| %RSD | .68468 | .32881 | .55667 | .09225 | .19699 | .09621 | .28969 | .46199 | 1.7337 |
| #1 | .06706 | .11707 | .29418 | 169.45 | 11.583 | .18775 | 35.964 | 8.2167 | .00624 |
| #2 | .06642 | .11652 | .29188 | 169.67 | 11.615 | .18750 | 35.817 | 8.2706 | .00639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61262** | **.15809** | **4.7287** | **.07005** | **.18385** | **-.00272** | **.00797** | **1.6885** | **.00489** |
| Stddev | .01114 | .00055 | .0029 | .00120 | .00200 | .00080 | .00033 | .0204 | .00008 |
| %RSD | 1.8190 | .34735 | .06167 | 1.7079 | 1.0892 | 29.211 | 4.1439 | 1.2103 | 1.7379 |
| #1 | .62050 | .15848 | 4.7307 | .06921 | .18243 | -.00216 | .00774 | 1.7030 | .00495 |
| #2 | .60474 | .15770 | 4.7266 | .07090 | .18526 | -.00329 | .00821 | 1.6741 | .00483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05034** | **.09212** | **.68886** | **-.00656** | **-.02226** | **.14298** | **.67698** | **.03540** |
| Stddev | .00006 | .00092 | .00311 | .00043 | .00052 | .00135 | .00274 | .00230 |
| %RSD | .11452 | .99876 | .45186 | 6.5319 | 2.3139 | .94334 | .40430 | 6.4834 |
| #1 | .05030 | .09147 | .69107 | -.00626 | -.02190 | .14393 | .67891 | .03703 |
| #2 | .05038 | .09277 | .68666 | -.00686 | -.02263 | .14202 | .67504 | .03378 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6021.2** | **74528.** | **3586.9** |
| Stddev | .5 | 92. | 17.7 |
| %RSD | .00764 | .12291 | .49431 |
| #1 | 6020.8 | 74463. | 3599.4 |
| #2 | 6021.5 | 74593. | 3574.4 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 21:55:10 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **46.906** | **-.00156** | **-.00012** | **.00183** | **-.00006** | **1.0102** | **.02485** | **-.00090** | **.00234** | **.00014** | **-.00047** |
| Stddev | .00056 | .164 | .00011 | .00022 | .00097 | .00015 | .0066 | .00723 | .00015 | .00025 | .00011 | .00077 |
| %RSD | 259.92 | .34899 | 7.1003 | 180.83 | 53.168 | 233.27 | .64890 | 29.104 | 16.284 | 10.620 | 79.225 | 163.74 |
| #1 | -.00018 | 46.790 | -.00148 | -.00028 | .00251 | -.00017 | 1.0148 | .01974 | -.00101 | .00216 | .00022 | -.00102 |
| #2 | .00061 | 47.022 | -.00164 | .00003 | .00114 | .00004 | 1.0055 | .02997 | -.00080 | .00252 | .00006 | .00007 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **39.080** | **.27108** | **-.00274** | **.06059** | **.00964** | **-.00139** | F **295.82** | **.00194** | **.01522** | **-.00105** | **5.0494** | **.00220** |
| Stddev | .115 | .03160 | .00098 | .00151 | .00000 | .00039 | .45 | .00024 | .00068 | .00074 | .0087 | .00184 |
| %RSD | .29410 | 11.658 | 35.703 | 2.4902 | .01222 | 28.291 | .15183 | 12.618 | 4.4490 | 70.627 | .17299 | 83.839 |
| #1 | 38.999 | .24873 | -.00343 | .06166 | .00964 | -.00167 | 295.51 | .00177 | .01474 | -.00052 | 5.0556 | .00089 |
| #2 | 39.161 | .29342 | -.00205 | .05953 | .00964 | -.00111 | 296.14 | .00211 | .01570 | -.00157 | 5.0432 | .00350 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00821** | **-.02670** | **-.00072** | **.00058** | **5.1762** | **.00419** | **-.00217** | **10.079** | **.00044** | **.00352** | **-.05850** |
| Stddev | .00057 | .02067 | .00068 | .00000 | .0063 | .00011 | .00261 | .038 | .00046 | .00047 | .00068 |
| %RSD | 6.9401 | 77.437 | 94.038 | .18658 | .12124 | 2.6647 | 120.23 | .37265 | 103.06 | 13.266 | 1.1599 |
| #1 | .00862 | -.04132 | -.00120 | .00058 | 5.1717 | .00427 | -.00402 | 10.106 | .00012 | .00319 | -.05802 |
| #2 | .00781 | -.01208 | -.00024 | .00058 | 5.1806 | .00411 | -.00033 | 10.053 | .00076 | .00385 | -.05898 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5200.6** | **64673.** | **3048.0** |
| Stddev | 15.9 | 28. | 8.9 |
| %RSD | .30567 | .04269 | .29177 |
| #1 | 5189.4 | 64653. | 3054.3 |
| #2 | 5211.9 | 64692. | 3041.7 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 21:57:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50386** | F **.59140** | **.98765** | **.50746** | **.52077** | F **.43941** | **.00294** | **4.6034** | **.49656** | **.50356** | **.48683** | **.48325** |
| Stddev | .00123 | .00266 | .00033 | .00006 | .00441 | .00388 | .00148 | .0044 | .00000 | .00053 | .00185 | .00096 |
| %RSD | .24408 | .44896 | .03304 | .01156 | .84587 | .88223 | 50.327 | .09524 | .00036 | .10604 | .37914 | .19907 |
| #1 | .50473 | .59327 | .98742 | .50742 | .51765 | .43667 | .00398 | 4.6065 | .49656 | .50318 | .48814 | .48393 |
| #2 | .50299 | .58952 | .98788 | .50750 | .52388 | .44215 | .00189 | 4.6003 | .49656 | .50394 | .48553 | .48257 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | .50000 | | | | | | |
| Range | | 10.000% | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.1403** | F **57.661** | F **1.1428** | **19.708** | **.50381** | **.47807** | **5.4458** | **.49634** | **1.0161** | **.99522** | **-.06125** | **.99448** |
| Stddev | .0046 | .195 | .0092 | .004 | .00108 | .00101 | .0079 | .00019 | .0067 | .00148 | .00376 | .00143 |
| %RSD | .21277 | .33857 | .80356 | .02249 | .21500 | .21050 | .14456 | .03860 | .65935 | .14891 | 6.1314 | .14345 |
| #1 | 2.1436 | 57.523 | 1.1363 | 19.711 | .50304 | .47879 | 5.4403 | .49647 | 1.0209 | .99627 | -.05859 | .99549 |
| #2 | 2.1371 | 57.799 | 1.1493 | 19.705 | .50457 | .47736 | 5.4514 | .49620 | 1.0114 | .99417 | -.06390 | .99347 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0067** | F **4.2495** | **.95713** | **.51935** | **.00319** | **.48946** | **.96753** | **.00571** | **.48348** | **.49668** | **.46085** |
| Stddev | .0005 | .0647 | .00125 | .00339 | .00038 | .00116 | .00347 | .04589 | .00081 | .00073 | .00070 |
| %RSD | .05226 | 1.5219 | .13092 | .65233 | 11.821 | .23604 | .35824 | 803.53 | .16705 | .14629 | .15149 |
| #1 | 1.0063 | 4.2952 | .95802 | .51695 | .00346 | .48865 | .96998 | -.02674 | .48291 | .49617 | .46036 |
| #2 | 1.0071 | 4.2038 | .95625 | .52175 | .00293 | .49028 | .96508 | .03816 | .48405 | .49720 | .46134 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5340.9** | **66908.** | **3148.5** |
| Stddev | 10.7 | 112. | 11.5 |
| %RSD | .19949 | .16766 | .36473 |
| #1 | 5333.3 | 66828. | 3156.6 |
| #2 | 5348.4 | 66987. | 3140.4 |

Sample Name: CCB Acquired: 5/17/2013 21:59:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.01639** | **-.00123** | **-.00066** | W **.00072** | **.00003** | **.00157** | **.00596** | **-.00002** | **.00008** | **.00001** |
| Stddev | .00070 | .01496 | .00061 | .00013 | .00005 | .00012 | .00201 | .00111 | .00015 | .00006 | .00016 |
| %RSD | 184.47 | 91.287 | 49.518 | 20.268 | 6.9258 | 359.01 | 128.48 | 18.617 | 833.35 | 67.095 | 1933.5 |
| #1 | .00087 | .02697 | -.00165 | -.00057 | .00068 | .00012 | .00014 | .00675 | .00009 | .00004 | .00012 |
| #2 | -.00011 | .00581 | -.00080 | -.00076 | .00075 | -.00005 | .00299 | .00518 | -.00012 | .00012 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | F **.09209** | **.16233** | W **-.00350** | F **.02194** | F **.00364** | **.00029** | **.00780** | **.00041** | **.00314** | **.00009** |
| Stddev | .00062 | .00848 | .04953 | .00198 | .01353 | .00198 | .00039 | .01643 | .00013 | .00162 | .00017 |
| %RSD | 227.72 | 9.2046 | 30.508 | 56.529 | 61.635 | 54.422 | 132.55 | 210.49 | 32.639 | 51.614 | 181.45 |
| #1 | .00017 | .08610 | .12731 | -.00490 | .03151 | .00505 | .00057 | -.00381 | .00050 | .00428 | -.00003 |
| #2 | -.00071 | .09808 | .19735 | -.00210 | .01238 | .00224 | .00002 | .01942 | .00031 | .00199 | .00022 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | | .00261 | .02140 | .00051 | | | | | |
| Low Limit | | -.04400 | | -.00261 | -.02140 | -.00051 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05889** | **.00209** | W **.00523** | **-.00495** | **-.00167** | **.00003** | **.00110** | W **.00061** | **-.00062** | **.00368** | **.00069** |
| Stddev | .00386 | .00022 | .00225 | .01106 | .00039 | .00000 | .00166 | .00002 | .00225 | .03109 | .00058 |
| %RSD | 6.5608 | 10.512 | 43.045 | 223.68 | 23.303 | 13.654 | 151.14 | 2.9299 | 364.22 | 844.50 | 84.170 |
| #1 | -.05616 | .00225 | .00683 | -.01277 | -.00140 | .00003 | .00227 | .00062 | .00097 | -.01830 | .00028 |
| #2 | -.06162 | .00194 | .00364 | .00288 | -.00195 | .00003 | -.00008 | .00059 | -.00221 | .02567 | .00109 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .00486 | | | | | .00060 | | | |
| Low Limit | | | -.00486 | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00247** | W **.00264** |
| Stddev | .00014 | .00171 |
| %RSD | 5.6172 | 64.790 |
| #1 | .00237 | .00384 |
| #2 | .00257 | .00143 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5371.3** | **67505.** | **3154.7** |
| Stddev | 4.1 | 315. | 21.8 |
| %RSD | .07600 | .46667 | .69079 |
| #1 | 5374.2 | 67728. | 3170.1 |
| #2 | 5368.4 | 67283. | 3139.3 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 22:02:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01055** | **.10429** | **.01556** | **.10060** | **.01120** | **.00093** | **.10295** | **.18372** | **.00507** | **.01044** | **.00987** |
| Stddev | .00009 | .00106 | .00204 | .00095 | .00010 | .00014 | .00310 | .00370 | .00021 | .00010 | .00014 |
| %RSD | .86674 | 1.0150 | 13.088 | .94454 | .92238 | 14.877 | 3.0123 | 2.0138 | 4.1901 | .96488 | 1.4651 |
| #1 | .01049 | .10504 | .01412 | .10128 | .01128 | .00102 | .10076 | .18634 | .00522 | .01037 | .00997 |
| #2 | .01062 | .10354 | .01700 | .09993 | .01113 | .00083 | .10514 | .18110 | .00492 | .01051 | .00977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01404** | W **.07882** | W **3.7392** | **.00845** | **.20558** | **.01041** | **.01938** | **1.1173** | **.04127** | **2.9611** | **.01036** |
| Stddev | .00018 | .00197 | .0534 | .00049 | .00260 | .00003 | .00022 | .0138 | .00029 | .0029 | .00036 |
| %RSD | 1.2560 | 2.5026 | 1.4290 | 5.7988 | 1.2659 | .26180 | 1.1471 | 1.2374 | .71024 | .09832 | 3.5145 |
| #1 | .01417 | .07742 | 3.7014 | .00880 | .20742 | .01043 | .01954 | 1.1271 | .04148 | 2.9632 | .01061 |
| #2 | .01392 | .08021 | 3.7770 | .00811 | .20374 | .01039 | .01922 | 1.1075 | .04106 | 2.9591 | .01010 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | | | | | | | | |
| Range | | -20.000% | 20.000% | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06017** | W **.01283** | **.01796** | **.40944** | **.09600** | **.01037** | **.01416** | **.00988** | **.01429** | F **.08024** | **.01006** |
| Stddev | .00111 | .00050 | .00224 | .01348 | .00092 | .00022 | .00041 | .00062 | .00167 | .00916 | .00005 |
| %RSD | 1.8524 | 3.9156 | 12.474 | 3.2929 | .95787 | 2.1350 | 2.9288 | 6.2877 | 11.672 | 11.415 | .46889 |
| #1 | -.05938 | .01318 | .01955 | .41897 | .09665 | .01021 | .01445 | .01032 | .01547 | .08672 | .01003 |
| #2 | -.06095 | .01247 | .01638 | .39991 | .09535 | .01053 | .01387 | .00945 | .01311 | .07377 | .01009 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02258** | W **.01856** |
| Stddev | .00004 | .00334 |
| %RSD | .16393 | 18.002 |
| #1 | .02255 | .02093 |
| #2 | .02260 | .01620 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5340.5** | **67116.** | **3125.1** |
| Stddev | 7.3 | 188. | 22.2 |
| %RSD | .13598 | .28044 | .70962 |
| #1 | 5345.6 | 67249. | 3109.5 |
| #2 | 5335.4 | 66983. | 3140.8 |

Sample Name: 280-42158-A-31-B Acquired: 5/17/2013 22:04:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00225** | **94.860** | **.04420** | **.02199** | **1.5747** | **.00375** | **.00683** | **13.824** | **.00777** |
| Stddev | .00082 | .333 | .00021 | .00032 | .0031 | .00004 | .00019 | .069 | .00035 |
| %RSD | 36.488 | .35072 | .48493 | 1.4352 | .19629 | 1.0346 | 2.7185 | .50004 | 4.4602 |
| #1 | .00283 | 94.625 | .04405 | .02177 | 1.5725 | .00373 | .00696 | 13.775 | .00752 |
| #2 | .00167 | 95.095 | .04436 | .02221 | 1.5768 | .00378 | .00670 | 13.873 | .00801 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05818** | **.19309** | **.21944** | **160.13** | **8.9353** | **.17397** | **24.499** | **8.3916** | **.00544** |
| Stddev | .00000 | .00041 | .00033 | .14 | .0693 | .00134 | .016 | .1195 | .00005 |
| %RSD | .00728 | .21268 | .15032 | .08754 | .77581 | .76791 | .06607 | 1.4245 | .99318 |
| #1 | .05818 | .19280 | .21967 | 160.03 | 8.8863 | .17303 | 24.510 | 8.3071 | .00540 |
| #2 | .05818 | .19338 | .21921 | 160.23 | 8.9844 | .17492 | 24.487 | 8.4761 | .00548 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53850** | **.13743** | **6.8245** | **.73631** | **1.7875** | **-.00101** | **.00497** | **1.9741** | **.01079** |
| Stddev | .01813 | .00079 | .0077 | .00076 | .0007 | .00083 | .00067 | .0016 | .00035 |
| %RSD | 3.3669 | .57829 | .11259 | .10317 | .03736 | 82.541 | 13.543 | .08150 | 3.2110 |
| #1 | .52568 | .13687 | 6.8190 | .73685 | 1.7879 | -.00159 | .00450 | 1.9753 | .01055 |
| #2 | .55132 | .13799 | 6.8299 | .73577 | 1.7870 | -.00042 | .00545 | 1.9730 | .01104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07502** | **.08909** | **.84015** | **-.00705** | **-.03640** | **.19103** | **.94952** | **.02037** |
| Stddev | .00016 | .00146 | .00108 | .00129 | .00849 | .00096 | .00088 | .00050 |
| %RSD | .21228 | 1.6409 | .12833 | 18.266 | 23.332 | .50280 | .09294 | 2.4723 |
| #1 | .07491 | .08806 | .84091 | -.00614 | -.03039 | .19171 | .95014 | .02001 |
| #2 | .07514 | .09012 | .83938 | -.00796 | -.04240 | .19035 | .94889 | .02073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5726.8** | **70931.** | **3442.7** |
| Stddev | 11.8 | 16. | 12.4 |
| %RSD | .20587 | .02295 | .36051 |
| #1 | 5735.1 | 70942. | 3451.5 |
| #2 | 5718.4 | 70919. | 3433.9 |

Sample Name: 280-42158-A-32-B  Acquired: 5/17/2013 22:07:10  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00189** | **70.213** | **.03750** | **.02008** | **.48292** | **.00321** | **.00463** | **7.6068** | **.00198** |
| Stddev | .00062 | .469 | .00067 | .00058 | .00352 | .00011 | .00085 | .0061 | .00007 |
| %RSD | 32.776 | .66821 | 1.7807 | 2.8895 | .72803 | 3.4832 | 18.409 | .08072 | 3.3183 |
| #1 | .00233 | 69.881 | .03797 | .02049 | .48043 | .00313 | .00523 | 7.6112 | .00202 |
| #2 | .00145 | 70.544 | .03703 | .01967 | .48540 | .00329 | .00402 | 7.6025 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05837** | **.12330** | **.38223** | **144.19** | **9.9974** | **.14516** | **28.950** | **8.3504** | **.00957** |
| Stddev | .00047 | .00058 | .00131 | .59 | .0130 | .00291 | .061 | .0288 | .00011 |
| %RSD | .81259 | .46924 | .34291 | .40811 | .13038 | 2.0050 | .21067 | .34473 | 1.1388 |
| #1 | .05871 | .12371 | .38316 | 143.78 | 10.007 | .14722 | 28.993 | 8.3301 | .00965 |
| #2 | .05803 | .12289 | .38131 | 144.61 | 9.9882 | .14311 | 28.907 | 8.3708 | .00949 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.60037** | **.13152** | **3.8523** | **.12419** | **.24410** | **-.00105** | **.00672** | **1.6659** | **.00398** |
| Stddev | .00206 | .00042 | .0178 | .00079 | .00741 | .00084 | .00144 | .0044 | .00003 |
| %RSD | .34319 | .31874 | .46139 | .63749 | 3.0367 | 80.047 | 21.428 | .26408 | .75564 |
| #1 | .60183 | .13181 | 3.8649 | .12363 | .24934 | -.00164 | .00570 | 1.6690 | .00400 |
| #2 | .59891 | .13122 | 3.8397 | .12475 | .23886 | -.00046 | .00774 | 1.6628 | .00396 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03471** | **.07922** | **.38961** | **-.00650** | **-.03420** | **.12707** | **.42441** | **.03296** |
| Stddev | .00031 | .00226 | .00183 | .00069 | .00655 | .00089 | .00133 | .00126 |
| %RSD | .88834 | 2.8478 | .46883 | 10.686 | 19.143 | .70021 | .31397 | 3.8228 |
| #1 | .03449 | .07763 | .39091 | -.00699 | -.02957 | .12770 | .42535 | .03385 |
| #2 | .03492 | .08082 | .38832 | -.00601 | -.03883 | .12644 | .42346 | .03207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6242.1** | **77577.** | **3720.7** |
| Stddev | 5.6 | 151. | 29.4 |
| %RSD | .09025 | .19457 | .78935 |
| #1 | 6238.1 | 77683. | 3741.5 |
| #2 | 6246.1 | 77470. | 3700.0 |

Sample Name: 280-42158-A-33-B Acquired: 5/17/2013 22:09:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **71.935** | **.04200** | **.02010** | **.24422** | **.00328** | **.00392** | **10.563** | **.00100** |
| Stddev | .00024 | .562 | .00158 | .00035 | .00213 | .00011 | .00249 | .107 | .00002 |
| %RSD | 18.545 | .78133 | 3.7625 | 1.7302 | .87091 | 3.4886 | 63.483 | 1.0114 | 2.1848 |
| #1 | .00148 | 72.332 | .04312 | .01985 | .24572 | .00336 | .00216 | 10.639 | .00099 |
| #2 | .00113 | 71.538 | .04089 | .02035 | .24271 | .00320 | .00568 | 10.487 | .00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07324** | **.09993** | **.27417** | **158.33** | **11.487** | **.17957** | **35.354** | **5.6966** | **.00294** |
| Stddev | .00008 | .00037 | .00054 | .19 | .013 | .00107 | .015 | .0881 | .00003 |
| %RSD | .10663 | .36908 | .19786 | .12313 | .11132 | .59516 | .04145 | 1.5461 | 1.1000 |
| #1 | .07318 | .09967 | .27379 | 158.46 | 11.478 | .17881 | 35.364 | 5.6343 | .00296 |
| #2 | .07329 | .10019 | .27455 | 158.19 | 11.496 | .18032 | 35.344 | 5.7589 | .00291 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96395** | **.15763** | **4.0804** | **.06827** | **.09629** | **-.00393** | **.00131** | **1.8299** | **.00367** |
| Stddev | .00762 | .00074 | .0020 | .00063 | .00073 | .00040 | .00588 | .0111 | .00043 |
| %RSD | .79004 | .47041 | .04938 | .92127 | .75352 | 10.258 | 449.68 | .60374 | 11.767 |
| #1 | .95856 | .15711 | 4.0818 | .06871 | .09577 | -.00422 | .00547 | 1.8377 | .00336 |
| #2 | .96933 | .15816 | 4.0790 | .06782 | .09680 | -.00365 | -.00285 | 1.8221 | .00398 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04847** | **.08392** | **.32253** | **-.00476** | **.02273** | **.12694** | **.50323** | **.04482** |
| Stddev | .00026 | .00080 | .00204 | .00135 | .01862 | .00065 | .00126 | .00022 |
| %RSD | .52694 | .95516 | .63395 | 28.463 | 81.925 | .50918 | .24969 | .48951 |
| #1 | .04829 | .08335 | .32398 | -.00380 | .00956 | .12648 | .50234 | .04467 |
| #2 | .04865 | .08449 | .32109 | -.00572 | .03589 | .12739 | .50412 | .04498 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6028.8** | **74638.** | **3570.2** |
| Stddev | 24.5 | 177. | 27.8 |
| %RSD | .40637 | .23726 | .78003 |
| #1 | 6011.5 | 74763. | 3550.5 |
| #2 | 6046.2 | 74513. | 3589.9 |

Sample Name: 280-42158-A-34-B Acquired: 5/17/2013 22:12:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00163** | **89.662** | **.03339** | **.01574** | **.40930** | **.00302** | **.00316** | **5.9692** | **.00217** |
| Stddev | .00073 | .423 | .00055 | .00043 | .00311 | .00005 | .00065 | .0111 | .00035 |
| %RSD | 44.888 | .47178 | 1.6522 | 2.7337 | .76100 | 1.7727 | 20.628 | .18580 | 16.218 |
| #1 | .00111 | 89.961 | .03300 | .01544 | .41150 | .00306 | .00270 | 5.9770 | .00192 |
| #2 | .00215 | 89.363 | .03378 | .01605 | .40710 | .00299 | .00362 | 5.9614 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05302** | **.10171** | **.24478** | **148.53** | **8.7487** | **.15313** | **25.223** | **8.5300** | **.00480** |
| Stddev | .00032 | .00006 | .00018 | .50 | .0318 | .00122 | .007 | .0087 | .00009 |
| %RSD | .60452 | .05499 | .07266 | .33700 | .36355 | .79788 | .02907 | .10148 | 1.9288 |
| #1 | .05279 | .10167 | .24491 | 148.89 | 8.7712 | .15226 | 25.218 | 8.5238 | .00474 |
| #2 | .05325 | .10175 | .24466 | 148.18 | 8.7262 | .15399 | 25.228 | 8.5361 | .00487 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57803** | **.12026** | **5.5408** | **.11286** | **1.0209** | **-.00231** | **.00439** | **1.8729** | **.00727** |
| Stddev | .00084 | .00008 | .0119 | .00123 | .0019 | .00192 | .00384 | .0070 | .00012 |
| %RSD | .14572 | .06361 | .21506 | 1.0871 | .18782 | 83.314 | 87.557 | .37555 | 1.5969 |
| #1 | .57863 | .12031 | 5.5323 | .11373 | 1.0223 | -.00095 | .00167 | 1.8778 | .00719 |
| #2 | .57744 | .12020 | 5.5492 | .11199 | 1.0196 | -.00367 | .00710 | 1.8679 | .00735 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02746** | **.07938** | **.57225** | **-.00640** | **-.02551** | **.16175** | **.50301** | **.01639** |
| Stddev | .00005 | .00028 | .00315 | .00030 | .00546 | .00092 | .00199 | .00143 |
| %RSD | .16779 | .35678 | .55085 | 4.6665 | 21.399 | .57109 | .39627 | 8.7027 |
| #1 | .02743 | .07918 | .57002 | -.00619 | -.02165 | .16240 | .50160 | .01740 |
| #2 | .02749 | .07958 | .57447 | -.00661 | -.02937 | .16110 | .50442 | .01538 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5657.7** | **69892.** | **3375.3** |
| Stddev | 4.8 | 64. | 17.3 |
| %RSD | .08565 | .09196 | .51107 |
| #1 | 5654.3 | 69847. | 3363.1 |
| #2 | 5661.2 | 69938. | 3387.5 |

Sample Name: 280-42158-A-35-B Acquired: 5/17/2013 22:14:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **96.830** | **.04137** | **.02223** | **.36401** | **.00388** | **.00350** | **47.278** | **.00216** |
| Stddev | .00015 | .065 | .00187 | .00045 | .00001 | .00001 | .00256 | .038 | .00011 |
| %RSD | 19.842 | .06704 | 4.5136 | 2.0047 | .00294 | .35865 | 72.907 | .08014 | 5.1720 |
| #1 | .00087 | 96.785 | .04005 | .02192 | .36402 | .00387 | .00170 | 47.252 | .00224 |
| #2 | .00066 | 96.876 | .04270 | .02255 | .36400 | .00389 | .00531 | 47.305 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06480** | **.15079** | **.29245** | **163.20** | **10.038** | **.17180** | **29.995** | **7.7208** | **.01387** |
| Stddev | .00036 | .00111 | .00077 | .36 | .021 | .00151 | .008 | .0027 | .00019 |
| %RSD | .54931 | .73721 | .26195 | .21800 | .20994 | .88045 | .02600 | .03507 | 1.3505 |
| #1 | .06505 | .15158 | .29191 | 162.95 | 10.023 | .17073 | 30.001 | 7.7227 | .01401 |
| #2 | .06455 | .15000 | .29299 | 163.45 | 10.053 | .17287 | 29.990 | 7.7189 | .01374 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.70585** | **.15234** | **25.561** | **.12412** | **.85308** | **-.00418** | **.00692** | **2.2863** | **.00611** |
| Stddev | .01163 | .00059 | .007 | .00006 | .00528 | .00019 | .00289 | .0598 | .00031 |
| %RSD | 1.6483 | .38999 | .02760 | .04822 | .61835 | 4.5211 | 41.718 | 2.6145 | 5.1312 |
| #1 | .71408 | .15276 | 25.556 | .12416 | .85681 | -.00405 | .00896 | 2.3285 | .00633 |
| #2 | .69763 | .15192 | 25.566 | .12407 | .84935 | -.00432 | .00488 | 2.2440 | .00589 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20388** | **.08953** | **.53520** | **-.00570** | **-.00273** | **.17092** | **.54073** | **.02426** |
| Stddev | .00009 | .00146 | .00158 | .00038 | .02800 | .00035 | .00042 | .00280 |
| %RSD | .04433 | 1.6334 | .29518 | 6.6562 | 1024.2 | .20273 | .07731 | 11.528 |
| #1 | .20381 | .08850 | .53409 | -.00597 | .01706 | .17116 | .54044 | .02624 |
| #2 | .20394 | .09056 | .53632 | -.00543 | -.02253 | .17067 | .54103 | .02229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5804.4** | **71703.** | **3494.3** |
| Stddev | .6 | 87. | 4.9 |
| %RSD | .01103 | .12068 | .13923 |
| #1 | 5803.9 | 71764. | 3497.7 |
| #2 | 5804.8 | 71641. | 3490.8 |

Sample Name: 280-42158-A-36-B  Acquired: 5/17/2013 22:16:53  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00180** | **75.927** | **.03851** | **.01447** | **.38659** | **.00286** | **.00393** | **16.394** | **.00152** |
| Stddev | .00028 | .317 | .00170 | .00027 | .00263 | .00008 | .00181 | .121 | .00005 |
| %RSD | 15.719 | .41736 | 4.4061 | 1.8499 | .67948 | 2.8534 | 46.063 | .73948 | 3.1309 |
| #1 | .00200 | 76.151 | .03971 | .01428 | .38845 | .00292 | .00520 | 16.480 | .00155 |
| #2 | .00160 | 75.703 | .03731 | .01466 | .38473 | .00280 | .00265 | 16.308 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05202** | **.10801** | **.28624** | **154.98** | **8.7522** | **.15896** | **32.602** | W **10.294** | **.00672** |
| Stddev | .00054 | .00006 | .00041 | .56 | .0068 | .00116 | .004 | .007 | .00007 |
| %RSD | 1.0441 | .05612 | .14298 | .36147 | .07794 | .73064 | .01281 | .07267 | 1.0563 |
| #1 | .05163 | .10796 | .28653 | 154.59 | 8.7474 | .15814 | 32.599 | 10.289 | .00667 |
| #2 | .05240 | .10805 | .28595 | 155.38 | 8.7570 | .15978 | 32.605 | 10.299 | .00677 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50384** | **.12175** | **5.0768** | **.06841** | **.52330** | **-.00166** | **.00288** | **1.8971** | **.00481** |
| Stddev | .01529 | .00063 | .0096 | .00076 | .00132 | .00082 | .00601 | .0063 | .00028 |
| %RSD | 3.0349 | .52039 | .18930 | 1.1056 | .25188 | 49.200 | 208.90 | .33398 | 5.7974 |
| #1 | .49303 | .12130 | 5.0700 | .06894 | .52423 | -.00224 | .00713 | 1.9016 | .00461 |
| #2 | .51465 | .12220 | 5.0836 | .06787 | .52237 | -.00109 | -.00137 | 1.8926 | .00500 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04259** | **.08017** | **.40657** | **-.00725** | W **-.06466** | **.14188** | **.48803** | **.02123** |
| Stddev | .00011 | .00048 | .00178 | .00028 | .00884 | .00029 | .00025 | .00021 |
| %RSD | .25787 | .59747 | .43706 | 3.8810 | 13.666 | .20656 | .05041 | .98383 |
| #1 | .04251 | .08051 | .40532 | -.00706 | -.07091 | .14167 | .48786 | .02108 |
| #2 | .04267 | .07984 | .40783 | -.00745 | -.05841 | .14208 | .48820 | .02137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5962.3** | **73881.** | **3493.1** |
| Stddev | 8.7 | 47. | 29.4 |
| %RSD | .14508 | .06385 | .84080 |
| #1 | 5968.5 | 73847. | 3472.4 |
| #2 | 5956.2 | 73914. | 3513.9 |

Sample Name: 280-42158-A-37-B  Acquired: 5/17/2013 22:19:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **93.492** | **.03503** | **.01310** | **.50607** | **.00352** | **.00428** | **8.9058** | **.00217** |
| Stddev | .00004 | .628 | .00039 | .00002 | .00253 | .00001 | .00111 | .0120 | .00024 |
| %RSD | 2.1281 | .67182 | 1.0996 | .18287 | .49965 | .23874 | 25.941 | .13493 | 11.134 |
| #1 | .00194 | 93.048 | .03475 | .01312 | .50429 | .00353 | .00350 | 8.8973 | .00234 |
| #2 | .00200 | 93.937 | .03530 | .01308 | .50786 | .00352 | .00507 | 8.9143 | .00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05384** | **.09604** | **.13267** | **142.62** | **7.6843** | **.16013** | **21.210** | W **12.265** | **.00273** |
| Stddev | .00006 | .00033 | .00043 | .24 | .0235 | .00044 | .009 | .088 | .00013 |
| %RSD | .10426 | .34143 | .32740 | .16519 | .30636 | .27187 | .04404 | .71940 | 4.7795 |
| #1 | .05388 | .09627 | .13298 | 142.45 | 7.7010 | .15983 | 21.217 | 12.202 | .00264 |
| #2 | .05380 | .09581 | .13236 | 142.79 | 7.6677 | .16044 | 21.204 | 12.327 | .00283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47139** | **.10602** | **6.2176** | **.07804** | **.92769** | **-.00166** | **.00371** | **2.0863** | **.00670** |
| Stddev | .00597 | .00023 | .0022 | .00017 | .00651 | .00113 | .00033 | .0198 | .00036 |
| %RSD | 1.2667 | .22070 | .03562 | .21346 | .70149 | 67.984 | 8.9718 | .94861 | 5.3090 |
| #1 | .47561 | .10585 | 6.2191 | .07793 | .93230 | -.00086 | .00394 | 2.0723 | .00645 |
| #2 | .46717 | .10618 | 6.2160 | .07816 | .92309 | -.00246 | .00347 | 2.1003 | .00695 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04146** | **.07460** | **.46570** | **-.00839** | **.01926** | **.16651** | **.50524** | **.01662** |
| Stddev | .00028 | .00117 | .00052 | .00167 | .02648 | .00030 | .00067 | .00186 |
| %RSD | .66835 | 1.5738 | .11101 | 19.890 | 137.50 | .17741 | .13349 | 11.212 |
| #1 | .04126 | .07377 | .46606 | -.00721 | .00053 | .16630 | .50572 | .01793 |
| #2 | .04166 | .07544 | .46533 | -.00957 | .03799 | .16672 | .50476 | .01530 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5617.1** | **69519.** | **3361.5** |
| Stddev | 3.8 | 72. | 1.9 |
| %RSD | .06817 | .10296 | .05600 |
| #1 | 5614.4 | 69570. | 3362.9 |
| #2 | 5619.9 | 69469. | 3360.2 |

Sample Name: 280-42158-A-38-B  Acquired: 5/17/2013 22:21:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174355 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **98.758** | **.04400** | **.01662** | **.40822** | **.00436** | **.00589** | **9.2421** | **.00197** |
| Stddev | .00018 | .130 | .00031 | .00036 | .00058 | .00003 | .00108 | .0185 | .00029 |
| %RSD | 13.867 | .13178 | .69392 | 2.1439 | .14154 | .76469 | 18.308 | .20054 | 14.934 |
| #1 | .00143 | 98.850 | .04421 | .01687 | .40863 | .00438 | .00513 | 9.2290 | .00218 |
| #2 | .00118 | 98.666 | .04378 | .01637 | .40782 | .00433 | .00665 | 9.2552 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07243** | **.11891** | **.30846** | **185.65** | **9.5385** | **.19389** | **34.528** | W **11.220** | **.00471** |
| Stddev | .00003 | .00018 | .00127 | .03 | .0439 | .00071 | .117 | .037 | .00021 |
| %RSD | .04059 | .14771 | .41307 | .01808 | .45967 | .36674 | .33769 | .33255 | 4.5494 |
| #1 | .07245 | .11903 | .30936 | 185.68 | 9.5695 | .19339 | 34.610 | 11.193 | .00486 |
| #2 | .07241 | .11878 | .30755 | 185.63 | 9.5075 | .19439 | 34.445 | 11.246 | .00455 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53620** | **.16632** | **6.8004** | **.06845** | **.67587** | **-.00353** | **.00364** | **1.8318** | **.00580** |
| Stddev | .00282 | .00005 | .0022 | .00100 | .00051 | .00052 | .00738 | .0156 | .00001 |
| %RSD | .52627 | .03240 | .03178 | 1.4547 | .07608 | 14.871 | 202.96 | .85218 | .22061 |
| #1 | .53420 | .16628 | 6.8020 | .06916 | .67551 | -.00316 | .00885 | 1.8429 | .00581 |
| #2 | .53819 | .16636 | 6.7989 | .06775 | .67624 | -.00390 | -.00158 | 1.8208 | .00580 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03864** | **.11194** | **.45777** | **-.00898** | **.00200** | **.15779** | **.59090** | **.02409** |
| Stddev | .00032 | .00253 | .00037 | .00026 | .06698 | .00060 | .00125 | .00038 |
| %RSD | .81685 | 2.2577 | .08127 | 2.8691 | 3353.2 | .37766 | .21105 | 1.5652 |
| #1 | .03842 | .11373 | .45803 | -.00916 | -.04537 | .15821 | .59179 | .02435 |
| #2 | .03887 | .11016 | .45751 | -.00880 | .04936 | .15737 | .59002 | .02382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5865.3** | **72329.** | **3492.2** |
| Stddev | 5.7 | 98. | 18.5 |
| %RSD | .09666 | .13506 | .52842 |
| #1 | 5869.3 | 72260. | 3479.1 |
| #2 | 5861.3 | 72398. | 3505.2 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 22:24:10 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **46.571** | **-.00175** | **-.00074** | **.00188** | **-.00011** | **1.0058** | **.01462** | **-.00062** | **.00215** | **-.00002** | **-.00022** |
| Stddev | .00010 | .060 | .00195 | .00022 | .00027 | .00002 | .0044 | .00151 | .00009 | .00024 | .00012 | .00049 |
| %RSD | 35.828 | .12781 | 111.43 | 29.483 | 14.529 | 17.254 | .44138 | 10.351 | 13.741 | 11.270 | 664.72 | 225.16 |
| #1 | .00021 | 46.529 | -.00037 | -.00059 | .00168 | -.00012 | 1.0026 | .01355 | -.00068 | .00198 | .00007 | -.00057 |
| #2 | .00036 | 46.613 | -.00314 | -.00090 | .00207 | -.00010 | 1.0089 | .01569 | -.00056 | .00232 | -.00010 | .00013 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.667** | **.19623** | **-.00402** | **.04402** | **.01012** | **-.00178** | F **295.73** | **.00186** | **.01586** | **.00153** | **5.0594** | **.00329** |
| Stddev | .075 | .00037 | .00146 | .00260 | .00080 | .00003 | 1.39 | .00004 | .00059 | .00039 | .0055 | .00077 |
| %RSD | .19284 | .18966 | 36.243 | 5.9086 | 7.8810 | 1.8813 | .46892 | 1.9683 | 3.7453 | 25.720 | .10845 | 23.447 |
| #1 | 38.614 | .19597 | -.00505 | .04218 | .00956 | -.00180 | 294.75 | .00189 | .01544 | .00125 | 5.0555 | .00384 |
| #2 | 38.720 | .19650 | -.00299 | .04586 | .01068 | -.00175 | 296.71 | .00183 | .01628 | .00181 | 5.0633 | .00275 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00458** | **-.01574** | **-.00099** | **.00037** | **5.1597** | **.00367** | **-.00150** | **9.9927** | **.00042** | **.00355** | **-.05547** |
| Stddev | .00519 | .00863 | .00008 | .00004 | .0013 | .00052 | .00068 | .1097 | .00046 | .00010 | .00112 |
| %RSD | 113.39 | 54.812 | 8.4417 | 11.899 | .02517 | 14.123 | 45.426 | 1.0978 | 110.71 | 2.7306 | 2.0135 |
| #1 | .00091 | -.00964 | -.00093 | .00034 | 5.1588 | .00330 | -.00102 | 9.9152 | .00009 | .00348 | -.05626 |
| #2 | .00825 | -.02184 | -.00105 | .00040 | 5.1606 | .00404 | -.00198 | 10.070 | .00074 | .00361 | -.05468 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5269.2** | **65571.** | **3105.4** |
| Stddev | 7.7 | 45. | 8.6 |
| %RSD | .14685 | .06876 | .27750 |
| #1 | 5274.6 | 65539. | 3099.3 |
| #2 | 5263.7 | 65603. | 3111.4 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 22:26:33 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50943** | **.49721** | **.99365** | **.51174** | **.52649** | F **.44164** | **.00512** | **4.5989** | **.49899** | **.50749** | **.48700** | **.48552** |
| Stddev | .00156 | .00007 | .00200 | .00040 | .00085 | .00049 | .00318 | .0030 | .00023 | .00199 | .00103 | .00005 |
| %RSD | .30543 | .01485 | .20169 | .07858 | .16051 | .11182 | 62.116 | .06605 | .04641 | .39270 | .21238 | .01069 |
| #1 | .51053 | .49726 | .99507 | .51203 | .52709 | .44130 | .00287 | 4.6011 | .49915 | .50609 | .48773 | .48548 |
| #2 | .50832 | .49716 | .99224 | .51146 | .52589 | .44199 | .00738 | 4.5968 | .49882 | .50890 | .48627 | .48556 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0065** | F **58.519** | F **1.1577** | **19.868** | **.50040** | **.47788** | **5.4279** | **.49919** | **1.0203** | **1.0017** | **-.06247** | **1.0045** |
| Stddev | .0447 | .183 | .0001 | .023 | .00013 | .00064 | .0304 | .00149 | .0002 | .0014 | .00024 | .0002 |
| %RSD | 2.2254 | .31247 | .00537 | .11420 | .02559 | .13494 | .56053 | .29863 | .02101 | .14178 | .38713 | .01855 |
| #1 | 2.0381 | 58.390 | 1.1577 | 19.884 | .50049 | .47743 | 5.4494 | .49813 | 1.0205 | 1.0027 | -.06230 | 1.0046 |
| #2 | 1.9749 | 58.648 | 1.1577 | 19.852 | .50031 | .47834 | 5.4064 | .50024 | 1.0202 | 1.0007 | -.06265 | 1.0044 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0269** | F **4.2573** | **.96283** | **.52538** | **.00062** | **.49293** | **.96929** | **.07290** | **.48795** | **.50158** | **.46335** |
| Stddev | .0000 | .0364 | .00263 | .00165 | .00101 | .00004 | .00066 | .01966 | .00174 | .00256 | .00136 |
| %RSD | .00064 | .85434 | .27346 | .31404 | 161.15 | .00741 | .06824 | 26.965 | .35658 | .51025 | .29457 |
| #1 | 1.0268 | 4.2316 | .96469 | .52421 | -.00009 | .49290 | .96882 | .08680 | .48918 | .50339 | .46431 |
| #2 | 1.0269 | 4.2830 | .96097 | .52655 | .00134 | .49295 | .96976 | .05900 | .48672 | .49977 | .46238 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5347.7** | **66200.** | **3090.8** |
| Stddev | 6.3 | 175. | 2.3 |
| %RSD | .11792 | .26499 | .07335 |
| #1 | 5343.2 | 66076. | 3089.2 |
| #2 | 5352.1 | 66324. | 3092.4 |

Sample Name: CCB Acquired: 5/17/2013 22:28:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00150** | **-.00044** | **-.00150** | **.00031** | **.00003** | **.00040** | **-.00638** | **-.00010** | **.00035** | **-.00011** |
| Stddev | .00027 | .00087 | .00269 | .00042 | .00009 | .00004 | .00170 | .00082 | .00002 | .00006 | .00012 |
| %RSD | 77.803 | 58.199 | 615.99 | 27.997 | 27.748 | 147.09 | 426.80 | 12.906 | 14.609 | 16.347 | 117.95 |
| #1 | .00016 | .00088 | .00147 | -.00120 | .00025 | -.00000 | .00160 | -.00697 | -.00009 | .00031 | -.00002 |
| #2 | .00054 | .00211 | -.00234 | -.00179 | .00038 | .00005 | -.00081 | -.00580 | -.00011 | .00039 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00053** | **.00297** | **.04813** | W **-.00462** | **-.00043** | **.00009** | **.00052** | **-.06314** | **.00059** | **.00095** | **.00023** |
| Stddev | .00020 | .00200 | .04604 | .00086 | .00012 | .00000 | .00054 | .00362 | .00017 | .00287 | .00048 |
| %RSD | 37.042 | 67.420 | 95.648 | 18.713 | 28.009 | 3.2202 | 105.08 | 5.7337 | 28.411 | 301.88 | 210.59 |
| #1 | -.00067 | .00155 | .01558 | -.00401 | -.00051 | .00009 | .00090 | -.06570 | .00071 | .00298 | .00057 |
| #2 | -.00039 | .00439 | .08069 | -.00523 | -.00034 | .00009 | .00013 | -.06058 | .00047 | -.00108 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06335** | **.00215** | **.00072** | **-.00795** | **-.00022** | **-.00028** | **-.00020** | **.00018** | **.00008** | **-.00821** | **.00063** |
| Stddev | .00388 | .00103 | .00052 | .00362 | .00040 | .00015 | .00080 | .00027 | .00052 | .02375 | .00011 |
| %RSD | 6.1230 | 47.826 | 71.860 | 45.523 | 179.62 | 53.346 | 397.29 | 148.96 | 675.03 | 289.31 | 17.084 |
| #1 | -.06061 | .00142 | .00109 | -.00539 | .00006 | -.00017 | -.00076 | -.00001 | -.00029 | -.02500 | .00055 |
| #2 | -.06610 | .00287 | .00035 | -.01051 | -.00051 | -.00038 | .00036 | .00037 | .00044 | .00858 | .00070 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00266** | F **.00493** |
| Stddev | .00035 | .00166 |
| %RSD | 13.204 | 33.638 |
| #1 | .00290 | .00611 |
| #2 | .00241 | .00376 |
| Check ? | Chk Pass | Chk Fail |
| High Limit | | .00476 |
| Low Limit | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5387.1** | **67559.** | **3136.2** |
| Stddev | 2.3 | 25. | 25.9 |
| %RSD | .04358 | .03654 | .82620 |
| #1 | 5385.4 | 67576. | 3154.5 |
| #2 | 5388.7 | 67541. | 3117.9 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 22:31:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01122** | **.10444** | **.01513** | **.10310** | **.01106** | W **.00071** | **.10452** | **.18496** | **.00524** | **.01071** | **.00991** |
| Stddev | .00061 | .00022 | .00056 | .00054 | .00016 | .00026 | .00307 | .00291 | .00006 | .00024 | .00016 |
| %RSD | 5.4650 | .21502 | 3.6882 | .52275 | 1.4350 | 35.963 | 2.9386 | 1.5748 | 1.1053 | 2.2286 | 1.6252 |
| #1 | .01079 | .10428 | .01474 | .10272 | .01095 | .00053 | .10670 | .18702 | .00520 | .01054 | .01002 |
| #2 | .01165 | .10460 | .01553 | .10348 | .01118 | .00089 | .10235 | .18290 | .00529 | .01087 | .00979 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01466** | **.08022** | W **3.8111** | **.00806** | **.20823** | **.01043** | **.01943** | **1.1292** | **.04110** | **2.9956** | **.00970** |
| Stddev | .00036 | .00289 | .0721 | .00065 | .00073 | .00004 | .00013 | .0040 | .00010 | .0108 | .00117 |
| %RSD | 2.4351 | 3.6054 | 1.8906 | 8.0299 | .34966 | .42934 | .65776 | .35716 | .25141 | .36118 | 12.089 |
| #1 | .01440 | .07818 | 3.7601 | .00760 | .20874 | .01047 | .01952 | 1.1263 | .04102 | 2.9879 | .01053 |
| #2 | .01491 | .08227 | 3.8620 | .00852 | .20771 | .01040 | .01934 | 1.1320 | .04117 | 3.0032 | .00887 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05689** | F **.01330** | **.01772** | **.42685** | **.09685** | **.01067** | **.01686** | **.00993** | **.01361** | F **.09893** | **.01045** |
| Stddev | .00022 | .00182 | .00190 | .00688 | .00043 | .00027 | .00299 | .00066 | .00104 | .01710 | .00186 |
| %RSD | .38303 | 13.706 | 10.750 | 1.6114 | .44553 | 2.4956 | 17.734 | 6.6910 | 7.6667 | 17.283 | 17.785 |
| #1 | -.05705 | .01459 | .01637 | .43171 | .09715 | .01048 | .01475 | .01040 | .01434 | .11102 | .00914 |
| #2 | -.05674 | .01201 | .01907 | .42198 | .09654 | .01086 | .01898 | .00946 | .01287 | .08684 | .01177 |
| Check ? | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 30.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02329** | **.01602** |
| Stddev | .00019 | .00075 |
| %RSD | .81866 | 4.6580 |
| #1 | .02343 | .01550 |
| #2 | .02316 | .01655 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5378.0** | **66907.** | **3138.5** |
| Stddev | 1.9 | 205. | 15.9 |
| %RSD | .03592 | .30673 | .50650 |
| #1 | 5379.3 | 67052. | 3127.3 |
| #2 | 5376.6 | 66761. | 3149.8 |

Sample Name: MB 280-174359/1-A Acquired: 5/17/2013 22:33:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.01599** | **.00182** | F **.02653** | **.00056** | **-.00014** | **-.00231** | W **.18235** | **.00005** |
| Stddev | .00016 | .00004 | .00095 | .00002 | .00041 | .00008 | .00238 | .00283 | .00007 |
| %RSD | 26.136 | .26681 | 51.869 | .09384 | 72.972 | 61.600 | 102.79 | 1.5511 | 145.25 |
| | | | | | | | | | |
| #1 | .00071 | .01602 | .00115 | .02651 | .00084 | -.00008 | -.00399 | .18435 | .00010 |
| #2 | .00049 | .01596 | .00249 | .02655 | .00027 | -.00020 | -.00063 | .18035 | -.00000 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | .01000 | | | | .10000 | |
| Low Limit | | | | -.01000 | | | | -.10000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00012** | **.00143** | W **.03208** | **.12040** | **-.00493** | **.02046** | **.00091** | **.00034** |
| Stddev | .00034 | .00014 | .00020 | .00353 | .02971 | .00310 | .00057 | .00007 | .00001 |
| %RSD | 109.23 | 117.50 | 14.048 | 11.008 | 24.676 | 62.870 | 2.7846 | 8.0471 | 4.3094 |
| | | | | | | | | | |
| #1 | .00055 | .00002 | .00157 | .03458 | .09939 | -.00713 | .02086 | .00096 | .00033 |
| #2 | .00007 | .00022 | .00129 | .02958 | .14141 | -.00274 | .02006 | .00086 | .00035 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26934** | **.00077** | F **.07937** | **.00068** | **-.02697** | **.00030** | **.00252** | **.04653** | **.00498** |
| Stddev | .03020 | .00021 | .00126 | .00163 | .00309 | .00014 | .00009 | .00826 | .00068 |
| %RSD | 11.213 | 26.839 | 1.5832 | 238.56 | 11.475 | 46.331 | 3.6708 | 17.756 | 13.594 |
| | | | | | | | | | |
| #1 | .24799 | .00092 | .07849 | .00183 | -.02916 | .00040 | .00259 | .05237 | .00450 |
| #2 | .29070 | .00063 | .08026 | -.00047 | -.02478 | .00020 | .00245 | .04069 | .00546 |
| | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00086** | **.00043** | **-.00074** | **-.00323** | **.00017** | W **.00519** | **.00096** |
| Stddev | .00018 | .00279 | .00007 | .00167 | .03106 | .00062 | .00025 | .00196 |
| %RSD | 52.943 | 323.81 | 16.825 | 225.17 | 961.36 | 362.05 | 4.7929 | 203.76 |
| | | | | | | | | |
| #1 | .00022 | -.00111 | .00038 | -.00192 | .01873 | .00061 | .00536 | -.00042 |
| #2 | .00048 | .00283 | .00048 | .00044 | -.02519 | -.00027 | .00501 | .00235 |
| | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00500 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5411.9** | **68031.** | **3161.0** |
| Stddev | 2.4 | 160. | 8.2 |
| %RSD | .04354 | .23511 | .25809 |
| | | | |
| #1 | 5410.2 | 67918. | 3155.2 |
| #2 | 5413.5 | 68144. | 3166.8 |

Sample Name: LCS 280-174359/2-A Acquired: 5/17/2013 22:36:14 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05208** | **1.9149** | **.95652** | F **1.1236** | **2.0635** | **.04355** | **1.9772** | **44.207** | **.09935** |
| Stddev | .00034 | .0004 | .00688 | .0007 | .0061 | .00017 | .0015 | .121 | .00056 |
| %RSD | .65307 | .01898 | .71929 | .06614 | .29516 | .39192 | .07852 | .27385 | .56622 |
| #1 | .05183 | 1.9152 | .96138 | 1.1230 | 2.0678 | .04343 | 1.9761 | 44.292 | .09895 |
| #2 | .05232 | 1.9147 | .95165 | 1.1241 | 2.0592 | .04367 | 1.9783 | 44.121 | .09975 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48638** | **.19048** | **.23928** | F **.79585** | F **57.387** | F **1.1236** | **48.051** | **.48199** | **.94186** |
| Stddev | .00093 | .00027 | .00043 | .00333 | .161 | .0055 | .056 | .00008 | .00106 |
| %RSD | .19120 | .13972 | .17976 | .41801 | .28085 | .49313 | .11576 | .01632 | .11232 |
| #1 | .48573 | .19067 | .23959 | .79349 | 57.501 | 1.1276 | 48.091 | .48193 | .94261 |
| #2 | .48704 | .19029 | .23898 | .79820 | 57.273 | 1.1197 | 48.012 | .48205 | .94111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.2000 | 55.000 | 1.1000 | | | |
| Low Limit | | | | .87000 | 44.500 | .90000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **59.612** | **.47633** | **10.163** | **.47947** | **-.02888** | **.49192** | **1.9929** | F **.91926** | **1.8727** |
| Stddev | .265 | .00082 | .006 | .00051 | .00040 | .00159 | .0157 | .00933 | .0137 |
| %RSD | .44418 | .17209 | .05717 | .10711 | 1.3953 | .32380 | .78569 | 1.0146 | .73126 |
| #1 | 59.425 | .47575 | 10.158 | .47911 | -.02917 | .49079 | 1.9818 | .92586 | 1.8631 |
| #2 | 59.799 | .47691 | 10.167 | .47983 | -.02860 | .49304 | 2.0040 | .91267 | 1.8824 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 7.0000 | |
| Low Limit | 45.000 | | | | | | | 1.0000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0194** | **.99670** | **.96607** | **1.8910** | **2.0071** | **.47870** | **.48201** | **.43973** |
| Stddev | .0018 | .00179 | .00119 | .0123 | .0393 | .00044 | .00216 | .00164 |
| %RSD | .17132 | .17930 | .12355 | .64803 | 1.9572 | .09247 | .44839 | .37389 |
| #1 | 1.0207 | .99796 | .96522 | 1.8823 | 2.0349 | .47839 | .48048 | .44089 |
| #2 | 1.0182 | .99544 | .96691 | 1.8997 | 1.9793 | .47901 | .48354 | .43857 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5257.6** | **65835.** | **3105.4** |
| Stddev | 2.3 | 104. | 12.4 |
| %RSD | .04338 | .15837 | .40006 |
| #1 | 5256.0 | 65909. | 3096.6 |
| #2 | 5259.2 | 65762. | 3114.2 |

Sample Name: 280-42159-A-11-A  Acquired: 5/17/2013 22:38:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **32.970** | **.02848** | **.07255** | **.21666** | **.00102** | **-.00533** | W **2021.4** | **.00225** |
| Stddev | .00010 | .165 | .00176 | .00011 | .00228 | .00009 | .00170 | 16.5 | .00019 |
| %RSD | 46.626 | .50187 | 6.1822 | .14972 | 1.0544 | 8.9773 | 31.817 | .81717 | 8.3237 |
| #1 | -.00014 | 33.087 | .02972 | .07247 | .21828 | .00109 | -.00413 | 2033.0 | .00238 |
| #2 | -.00028 | 32.853 | .02723 | .07262 | .21504 | .00096 | -.00653 | 2009.7 | .00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02279** | **.06918** | **.39095** | **61.563** | **9.8544** | **.13531** | **61.065** | **2.7806** | **.00652** |
| Stddev | .00018 | .00014 | .00168 | .278 | .0638 | .00190 | .148 | .0064 | .00001 |
| %RSD | .77783 | .19575 | .43038 | .45191 | .64787 | 1.4057 | .24252 | .23038 | .22649 |
| #1 | .02291 | .06927 | .39214 | 61.759 | 9.8093 | .13665 | 61.170 | 2.7852 | .00653 |
| #2 | .02266 | .06908 | .38976 | 61.366 | 9.8996 | .13396 | 60.960 | 2.7761 | .00651 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.7987** | **.07039** | **2.0085** | **.08427** | **7.9161** | **.20409** | **.00870** | **2.9268** | **.00176** |
| Stddev | .0415 | .00027 | .0028 | .00196 | .0233 | .00493 | .00112 | .0093 | .00119 |
| %RSD | .86406 | .38943 | .14084 | 2.3306 | .29367 | 2.4136 | 12.924 | .31929 | 67.683 |
| #1 | 4.8280 | .07058 | 2.0105 | .08566 | 7.9325 | .20757 | .00949 | 2.9202 | .00092 |
| #2 | 4.7694 | .07020 | 2.0065 | .08288 | 7.8996 | .20061 | .00790 | 2.9334 | .00260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7042** | **.04263** | **.39004** | **-.00260** | F **-.14722** | **.07969** | **1.5601** | **.04283** |
| Stddev | .0117 | .00046 | .00888 | .00185 | .00511 | .00016 | .0021 | .00001 |
| %RSD | .43187 | 1.0788 | 2.2776 | 71.251 | 3.4717 | .19552 | .13335 | .02744 |
| #1 | 2.7125 | .04231 | .39632 | -.00391 | -.14361 | .07980 | 1.5616 | .04283 |
| #2 | 2.6960 | .04296 | .38376 | -.00129 | -.15084 | .07958 | 1.5587 | .04284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5077.6** | **63825.** | **3206.6** |
| Stddev | 1.7 | 37. | 16.4 |
| %RSD | .03323 | .05739 | .51065 |
| #1 | 5078.8 | 63799. | 3195.0 |
| #2 | 5076.4 | 63851. | 3218.2 |

Sample Name: 280-42159-A-12-A  Acquired: 5/17/2013 22:41:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **45.394** | **.03401** | **.02323** | **.16769** | **.00203** | **-.00043** | **155.30** | **.00099** |
| Stddev | .00023 | .265 | .00128 | .00041 | .00025 | .00001 | .00129 | 1.01 | .00004 |
| %RSD | 12.408 | .58385 | 3.7604 | 1.7691 | .14625 | .70620 | 299.95 | .65170 | 4.1789 |
| #1 | .00172 | 45.581 | .03491 | .02352 | .16787 | .00204 | -.00134 | 156.02 | .00101 |
| #2 | .00205 | 45.206 | .03311 | .02294 | .16752 | .00202 | .00048 | 154.59 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03896** | **.05906** | **.13871** | **108.94** | **9.5495** | **.10205** | **31.324** | W **11.069** | **.00128** |
| Stddev | .00027 | .00005 | .00057 | .36 | .0488 | .00114 | .090 | .043 | .00008 |
| %RSD | .69418 | .08768 | .41070 | .33352 | .51109 | 1.1201 | .28864 | .38571 | 6.5455 |
| #1 | .03877 | .05910 | .13830 | 109.19 | 9.5841 | .10286 | 31.260 | 11.039 | .00122 |
| #2 | .03915 | .05903 | .13911 | 108.68 | 9.5150 | .10124 | 31.388 | 11.100 | .00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0483** | **.08703** | **3.5394** | **.02501** | **.85116** | **.00609** | **.00310** | **1.9683** | **.00261** |
| Stddev | .0045 | .00019 | .0005 | .00016 | .00201 | .00064 | .00557 | .0613 | .00020 |
| %RSD | .42688 | .22064 | .01510 | .63344 | .23559 | 10.528 | 179.72 | 3.1152 | 7.5695 |
| #1 | 1.0451 | .08716 | 3.5398 | .02489 | .85257 | .00655 | -.00084 | 2.0116 | .00275 |
| #2 | 1.0515 | .08689 | 3.5390 | .02512 | .84974 | .00564 | .00704 | 1.9249 | .00247 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22422** | **.05732** | **.21804** | **-.00786** | **-.03180** | **.08761** | **.25123** | **.03233** |
| Stddev | .00095 | .00107 | .00047 | .00065 | .00070 | .00015 | .00142 | .00090 |
| %RSD | .42335 | 1.8632 | .21467 | 8.2769 | 2.2120 | .16569 | .56453 | 2.7736 |
| #1 | .22489 | .05657 | .21771 | -.00740 | -.03130 | .08751 | .25023 | .03296 |
| #2 | .22355 | .05808 | .21837 | -.00832 | -.03229 | .08771 | .25224 | .03169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5528.1** | **69505.** | **3360.1** |
| Stddev | 7.4 | 403. | 12.8 |
| %RSD | .13358 | .58051 | .38177 |
| #1 | 5533.3 | 69790. | 3351.0 |
| #2 | 5522.9 | 69220. | 3369.2 |

Sample Name: 280-42159-A-13-A  Acquired: 5/17/2013 22:43:52  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **44.105** | **.02603** | **.05582** | **.23763** | **.00181** | **-.00419** | W **1430.0** | **.00123** |
| Stddev | .00034 | .481 | .00337 | .00016 | .00300 | .00004 | .00091 | 1.2 | .00015 |
| %RSD | 44.136 | 1.0917 | 12.929 | .29124 | 1.2628 | 2.1937 | 21.671 | .08725 | 12.274 |
| #1 | .00053 | 43.765 | .02841 | .05594 | .23551 | .00179 | -.00355 | 1429.1 | .00133 |
| #2 | .00102 | 44.446 | .02365 | .05571 | .23975 | .00184 | -.00484 | 1430.9 | .00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03424** | **.07491** | **.73406** | **76.045** | **11.351** | **.12502** | **56.918** | **2.3686** | **.00599** |
| Stddev | .00005 | .00000 | .00902 | .151 | .078 | .00032 | .599 | .0242 | .00018 |
| %RSD | .15760 | .00156 | 1.2291 | .19920 | .68700 | .25206 | 1.0522 | 1.0235 | 3.0030 |
| #1 | .03428 | .07491 | .72768 | 75.937 | 11.296 | .12479 | 56.494 | 2.3514 | .00612 |
| #2 | .03420 | .07491 | .74044 | 76.152 | 11.406 | .12524 | 57.341 | 2.3857 | .00587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.8331** | **.10672** | **3.0877** | **.08122** | **13.035** | **.05967** | **.00745** | **1.8104** | **.00808** |
| Stddev | .0591 | .00000 | .0032 | .00181 | .010 | .00155 | .00004 | .0394 | .00017 |
| %RSD | 2.0859 | .00160 | .10429 | 2.2341 | .07362 | 2.6049 | .59544 | 2.1748 | 2.1517 |
| #1 | 2.7913 | .10672 | 3.0854 | .07994 | 13.042 | .05857 | .00742 | 1.7826 | .00796 |
| #2 | 2.8749 | .10672 | 3.0900 | .08251 | 13.028 | .06077 | .00748 | 1.8382 | .00821 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3699** | **.05157** | **.36106** | **-.00085** | **-.04081** | **.27983** | **.38948** | **.03198** |
| Stddev | .0246 | .00089 | .00119 | .00075 | .02413 | .00413 | .00568 | .00124 |
| %RSD | 1.0374 | 1.7274 | .33015 | 88.590 | 59.146 | 1.4745 | 1.4582 | 3.8618 |
| #1 | 2.3525 | .05094 | .36022 | -.00032 | -.02374 | .27691 | .38546 | .03285 |
| #2 | 2.3873 | .05220 | .36191 | -.00138 | -.05787 | .28275 | .39350 | .03111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5211.1** | **65992.** | **3283.3** |
| Stddev | 1.1 | 522. | 16.8 |
| %RSD | .02074 | .79134 | .51220 |
| #1 | 5211.8 | 66361. | 3295.2 |
| #2 | 5210.3 | 65622. | 3271.4 |

Sample Name: 280-42159-A-14-A  Acquired: 5/17/2013 22:46:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00155** | **58.196** | **.03847** | **.02263** | **.22975** | **.00233** | **.00078** | **140.27** | **.00099** |
| Stddev | .00011 | .195 | .00042 | .00003 | .00087 | .00003 | .00146 | .10 | .00014 |
| %RSD | 6.8144 | .33580 | 1.0866 | .12933 | .37877 | 1.3622 | 187.48 | .07379 | 13.832 |
| #1 | .00163 | 58.058 | .03876 | .02266 | .22914 | .00235 | -.00025 | 140.20 | .00109 |
| #2 | .00148 | 58.334 | .03817 | .02261 | .23037 | .00231 | .00182 | 140.35 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05088** | **.07356** | **.20169** | **129.74** | **10.306** | **.13856** | **33.114** | W **10.175** | **.00118** |
| Stddev | .00001 | .00047 | .00137 | .38 | .093 | .00014 | .105 | .115 | .00005 |
| %RSD | .02167 | .63926 | .68172 | .28963 | .90084 | .10282 | .31610 | 1.1255 | 4.3927 |
| #1 | .05088 | .07389 | .20266 | 129.47 | 10.372 | .13846 | 33.188 | 10.094 | .00121 |
| #2 | .05087 | .07323 | .20072 | 130.00 | 10.241 | .13866 | 33.040 | 10.256 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3841** | **.11488** | **3.9914** | **.03493** | **.31859** | **.00032** | **.00562** | **2.1629** | **.00343** |
| Stddev | .0008 | .00006 | .0091 | .00033 | .00388 | .00109 | .00297 | .0491 | .00068 |
| %RSD | .05470 | .05244 | .22770 | .95437 | 1.2169 | 341.70 | 52.927 | 2.2706 | 19.755 |
| #1 | 1.3847 | .11484 | 3.9978 | .03469 | .32133 | -.00045 | .00772 | 2.1282 | .00295 |
| #2 | 1.3836 | .11492 | 3.9850 | .03516 | .31585 | .00109 | .00351 | 2.1977 | .00391 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25440** | **.06886** | **.23643** | **-.00662** | **-.02463** | **.10526** | **.32309** | **.03755** |
| Stddev | .00001 | .00086 | .00440 | .00197 | .09641 | .00041 | .00052 | .00155 |
| %RSD | .00283 | 1.2526 | 1.8624 | 29.755 | 391.44 | .38674 | .16004 | 4.1165 |
| #1 | .25439 | .06947 | .23332 | -.00523 | -.09280 | .10555 | .32273 | .03646 |
| #2 | .25440 | .06825 | .23955 | -.00801 | .04354 | .10497 | .32346 | .03865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5701.9** | **71500.** | **3443.0** |
| Stddev | 1.1 | 75. | 4.6 |
| %RSD | .01909 | .10535 | .13465 |
| #1 | 5701.1 | 71553. | 3439.7 |
| #2 | 5702.6 | 71447. | 3446.3 |

Sample Name: 280-42159-A-15-A  Acquired: 5/17/2013 22:49:15  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **63.366** | **.03465** | **.04418** | **.36462** | **.00249** | **-.00143** | W **917.40** | **.00193** |
| Stddev | .00097 | .494 | .00416 | .00098 | .00063 | .00006 | .00271 | 15.52 | .00015 |
| %RSD | 191.79 | .77954 | 12.018 | 2.2069 | .17257 | 2.5885 | 189.85 | 1.6912 | 7.7845 |
| #1 | -.00018 | 63.017 | .03759 | .04349 | .36417 | .00254 | .00049 | 906.43 | .00204 |
| #2 | .00119 | 63.716 | .03171 | .04487 | .36506 | .00244 | -.00334 | 928.37 | .00182 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04197** | **.08115** | **.61076** | **98.525** | **10.991** | **.14041** | **47.734** | **2.3531** | **.00419** |
| Stddev | .00008 | .00008 | .00143 | .455 | .086 | .00190 | .142 | .0068 | .00020 |
| %RSD | .19835 | .09393 | .23453 | .46222 | .78684 | 1.3551 | .29673 | .28981 | 4.8512 |
| #1 | .04191 | .08120 | .61177 | 98.203 | 10.930 | .14176 | 47.834 | 2.3580 | .00434 |
| #2 | .04203 | .08109 | .60975 | 98.847 | 11.052 | .13907 | 47.633 | 2.3483 | .00405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.5207** | **.10667** | **3.7837** | **.09925** | **3.8722** | **.08225** | **.01032** | **2.4583** | **.00443** |
| Stddev | .0091 | .00030 | .0095 | .00044 | .0059 | .00322 | .00019 | .0499 | .00114 |
| %RSD | .20028 | .27738 | .25122 | .44086 | .15129 | 3.9092 | 1.8662 | 2.0316 | 25.752 |
| #1 | 4.5143 | .10688 | 3.7905 | .09956 | 3.8763 | .07998 | .01046 | 2.4230 | .00523 |
| #2 | 4.5271 | .10647 | 3.7770 | .09894 | 3.8680 | .08452 | .01018 | 2.4936 | .00362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2155** | **.06120** | **.57186** | **-.00347** | W **-.05642** | **.12736** | **.55902** | **.02530** |
| Stddev | .0084 | .00049 | .00325 | .00184 | .01702 | .00060 | .00177 | .00065 |
| %RSD | .69070 | .79999 | .56760 | 53.017 | 30.169 | .46720 | .31592 | 2.5873 |
| #1 | 1.2096 | .06085 | .57416 | -.00217 | -.04439 | .12778 | .56027 | .02483 |
| #2 | 1.2215 | .06154 | .56957 | -.00477 | -.06846 | .12694 | .55777 | .02576 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5371.2** | **67218.** | **3349.0** |
| Stddev | 2.1 | 297. | 33.5 |
| %RSD | .03886 | .44236 | 1.0000 |
| #1 | 5372.7 | 67008. | 3372.6 |
| #2 | 5369.7 | 67429. | 3325.3 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 22:52:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **47.065** | **-.00155** | **.00040** | **.00105** | **-.00011** | **1.0257** | **.15469** | **-.00071** | **.00185** | **-.00016** | **-.00052** |
| Stddev | .00023 | .499 | .00172 | .00051 | .00024 | .00004 | .0047 | .00706 | .00029 | .00009 | .00003 | .00006 |
| %RSD | 179.73 | 1.0607 | 110.81 | 127.02 | 22.816 | 35.255 | .46207 | 4.5642 | 40.676 | 4.8898 | 17.528 | 12.423 |
| #1 | .00003 | 46.712 | -.00277 | .00004 | .00121 | -.00014 | 1.0223 | .15968 | -.00051 | .00178 | -.00018 | -.00047 |
| #2 | -.00029 | 47.418 | -.00034 | .00077 | .00088 | -.00009 | 1.0290 | .14970 | -.00092 | .00191 | -.00014 | -.00057 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **39.082** | **.30362** | **-.00407** | **.01406** | **.00070** | **-.00144** | F **300.84** | **.00148** | **.00426** | **.00069** | **5.1420** | **.00246** |
| Stddev | .354 | .05622 | .00173 | .00415 | .00005 | .00001 | 2.17 | .00005 | .00074 | .00041 | .0053 | .00093 |
| %RSD | .90494 | 18.518 | 42.627 | 29.556 | 7.7134 | .95851 | .72116 | 3.6424 | 17.416 | 59.096 | .10365 | 37.914 |
| #1 | 38.832 | .26387 | -.00284 | .01112 | .00074 | -.00145 | 299.31 | .00144 | .00374 | .00040 | 5.1457 | .00312 |
| #2 | 39.332 | .34338 | -.00529 | .01700 | .00066 | -.00143 | 302.38 | .00151 | .00479 | .00098 | 5.1382 | .00180 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00863** | **.00245** | **-.00056** | **.00040** | **5.2442** | **.00302** | **-.00086** | **10.182** | **.00018** | **.00356** | **-.05798** |
| Stddev | .00100 | .00759 | .00011 | .00018 | .0082 | .00022 | .00185 | .017 | .00090 | .00051 | .00055 |
| %RSD | 11.573 | 309.95 | 19.722 | 45.448 | .15686 | 7.4259 | 216.04 | .16661 | 512.91 | 14.420 | .95354 |
| #1 | .00793 | -.00292 | -.00064 | .00053 | 5.2384 | .00286 | .00045 | 10.170 | .00081 | .00319 | -.05759 |
| #2 | .00934 | .00781 | -.00048 | .00027 | 5.2501 | .00317 | -.00217 | 10.194 | -.00046 | .00392 | -.05837 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5179.6** | **64951.** | **3048.1** |
| Stddev | 3.3 | 170. | 44.0 |
| %RSD | .06323 | .26227 | 1.4449 |
| #1 | 5181.9 | 64830. | 3079.2 |
| #2 | 5177.3 | 65071. | 3016.9 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 22:54:37 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51309** | **.51011** | **.99727** | **.51518** | **.52882** | F **.44259** | **.00315** | **4.6739** | **.50238** | **.51397** | **.49210** | **.48976** |
| Stddev | .00031 | .00059 | .00511 | .00014 | .00116 | .00074 | .00094 | .0045 | .00001 | .00035 | .00013 | .00017 |
| %RSD | .05997 | .11608 | .51270 | .02787 | .21894 | .16712 | 29.892 | .09679 | .00120 | .06843 | .02605 | .03389 |
| #1 | .51331 | .51052 | .99366 | .51508 | .52963 | .44207 | .00382 | 4.6771 | .50239 | .51372 | .49201 | .48988 |
| #2 | .51287 | .50969 | 1.0009 | .51528 | .52800 | .44312 | .00249 | 4.6707 | .50238 | .51422 | .49219 | .48965 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.0075** | F **59.098** | F **1.1720** | **20.071** | **.50467** | **.48591** | **5.4925** | **.50598** | **1.0310** | **1.0105** | **-.05987** | **1.0106** |
| Stddev | .0054 | .050 | .0023 | .019 | .00040 | .00128 | .0283 | .00022 | .0006 | .0016 | .00243 | .0028 |
| %RSD | .26888 | .08455 | .19407 | .09372 | .07933 | .26251 | .51561 | .04388 | .05618 | .15784 | 4.0627 | .27955 |
| #1 | 2.0113 | 59.133 | 1.1736 | 20.084 | .50439 | .48501 | 5.5125 | .50582 | 1.0306 | 1.0093 | -.06159 | 1.0086 |
| #2 | 2.0037 | 59.063 | 1.1704 | 20.057 | .50495 | .48681 | 5.4724 | .50614 | 1.0314 | 1.0116 | -.05815 | 1.0126 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0329** | F **4.2798** | **.97385** | **.52805** | **.00351** | **.49713** | **.97944** | **.02982** | **.49250** | **.50806** | **.46637** |
| Stddev | .0029 | .0294 | .00024 | .00138 | .00313 | .00067 | .00004 | .02971 | .00098 | .00215 | .00684 |
| %RSD | .27928 | .68619 | .02499 | .26048 | 89.330 | .13541 | .00438 | 99.631 | .19946 | .42412 | 1.4670 |
| #1 | 1.0309 | 4.3006 | .97402 | .52707 | .00572 | .49761 | .97941 | .00881 | .49319 | .50958 | .46153 |
| #2 | 1.0350 | 4.2591 | .97368 | .52902 | .00129 | .49666 | .97947 | .05082 | .49180 | .50654 | .47121 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5261.8** | **65490.** | **3031.6** |
| Stddev | 1.7 | 49. | 18.0 |
| %RSD | .03146 | .07414 | .59304 |
| #1 | 5262.9 | 65456. | 3018.9 |
| #2 | 5260.6 | 65525. | 3044.3 |

Sample Name: CCB Acquired: 5/17/2013 22:56:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00121** | **.00173** | **.00164** | **-.00095** | **.00027** | **-.00017** | **.00397** | **.01519** | **-.00008** | **.00012** | **.00009** |
| Stddev | .00061 | .00007 | .00474 | .00009 | .00018 | .00007 | .00273 | .00254 | .00008 | .00037 | .00004 |
| %RSD | 49.997 | 4.0312 | 288.25 | 9.4907 | 66.955 | 41.200 | 68.725 | 16.714 | 96.238 | 322.64 | 47.018 |
| #1 | .00164 | .00177 | .00500 | -.00088 | .00014 | -.00012 | .00590 | .01340 | -.00013 | -.00015 | .00013 |
| #2 | .00078 | .00168 | -.00171 | -.00101 | .00039 | -.00022 | .00204 | .01699 | -.00003 | .00038 | .00006 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | | | | | | | | |
| Low Limit | -.00093 | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00299** | **.09733** | F **-.00695** | **-.00052** | **.00010** | **.00060** | **-.06464** | **.00065** | **-.00061** | **.00020** |
| Stddev | .00024 | .00140 | .07583 | .00080 | .00209 | .00002 | .00007 | .00324 | .00022 | .00004 | .00131 |
| %RSD | 386.13 | 46.928 | 77.902 | 11.558 | 402.71 | 20.970 | 12.196 | 5.0125 | 34.515 | 6.6575 | 648.47 |
| #1 | -.00011 | .00200 | .04372 | -.00638 | -.00200 | .00012 | .00065 | -.06693 | .00081 | -.00058 | .00113 |
| #2 | .00023 | .00398 | .15095 | -.00752 | .00096 | .00009 | .00054 | -.06235 | .00049 | -.00064 | -.00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | | | | |
| Low Limit | | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06286** | **.00208** | **.00196** | **-.00587** | **-.00174** | **.00004** | **.00089** | **.00041** | **.00066** | **.01409** | **.00022** |
| Stddev | .00120 | .00189 | .00295 | .01573 | .00053 | .00009 | .00012 | .00011 | .00090 | .01380 | .00034 |
| %RSD | 1.9158 | 90.857 | 150.10 | 268.13 | 30.229 | 221.51 | 13.878 | 26.959 | 135.54 | 97.935 | 155.14 |
| #1 | -.06371 | .00074 | .00405 | .00526 | -.00211 | .00010 | .00098 | .00049 | .00130 | .02385 | .00046 |
| #2 | -.06201 | .00342 | -.00012 | -.01699 | -.00137 | -.00002 | .00080 | .00033 | .00003 | .00433 | -.00002 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00279** | W **.00336** |
| Stddev | .00009 | .00203 |
| %RSD | 3.3267 | 60.569 |
| #1 | .00272 | .00192 |
| #2 | .00286 | .00479 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5421.3** | **67725.** | **3115.5** |
| Stddev | 6.5 | 105. | 9.4 |
| %RSD | .12075 | .15466 | .30016 |
| #1 | 5425.9 | 67799. | 3122.1 |
| #2 | 5416.7 | 67651. | 3108.9 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 22:59:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01089** | **.10275** | **.01494** | **.10119** | **.01067** | W **.00071** | **.10370** | **.19199** | **.00515** | **.01058** | **.01003** |
| Stddev | .00009 | .00032 | .00038 | .00025 | .00019 | .00017 | .00021 | .00558 | .00018 | .00028 | .00004 |
| %RSD | .82105 | .30907 | 2.5214 | .24832 | 1.7817 | 23.915 | .19909 | 2.9040 | 3.5678 | 2.6414 | .42341 |
| #1 | .01095 | .10298 | .01521 | .10101 | .01054 | .00059 | .10355 | .18804 | .00502 | .01038 | .01000 |
| #2 | .01082 | .10253 | .01467 | .10137 | .01081 | .00084 | .10384 | .19593 | .00528 | .01077 | .01006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01428** | W **.07890** | W **3.7518** | F **.00638** | **.20234** | **.01026** | **.01929** | **1.1336** | **.04140** | **2.9720** | **.01068** |
| Stddev | .00003 | .00239 | .0151 | .00061 | .00375 | .00022 | .00029 | .0073 | .00000 | .0013 | .00094 |
| %RSD | .19179 | 3.0233 | .40313 | 9.6101 | 1.8520 | 2.1360 | 1.5160 | .64306 | .00686 | .04457 | 8.8353 |
| #1 | .01426 | .07721 | 3.7625 | .00682 | .19969 | .01010 | .01949 | 1.1285 | .04140 | 2.9730 | .01135 |
| #2 | .01430 | .08059 | 3.7411 | .00595 | .20499 | .01041 | .01908 | 1.1388 | .04140 | 2.9711 | .01002 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | | | | | | |
| Range | | -20.000% | 20.000% | -30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06091** | W **.01242** | **.01603** | **.40407** | **.09502** | **.01056** | **.01480** | **.00959** | **.01332** | **.05355** | **.01011** |
| Stddev | .00058 | .00001 | .00450 | .00903 | .00081 | .00007 | .00184 | .00020 | .00039 | .02247 | .00056 |
| %RSD | .95135 | .04994 | 28.076 | 2.2345 | .84796 | .67982 | 12.425 | 2.0804 | 2.9522 | 41.960 | 5.4992 |
| #1 | -.06050 | .01242 | .01285 | .39769 | .09558 | .01051 | .01610 | .00945 | .01304 | .03766 | .01050 |
| #2 | -.06132 | .01243 | .01921 | .41046 | .09445 | .01061 | .01350 | .00973 | .01360 | .06944 | .00972 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | 20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02232** | **.01776** |
| Stddev | .00031 | .00081 |
| %RSD | 1.4096 | 4.5375 |
| #1 | .02209 | .01833 |
| #2 | .02254 | .01719 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5303.2** | **66750.** | **3082.3** |
| Stddev | 6.1 | 688. | 14.1 |
| %RSD | .11569 | 1.0310 | .45652 |
| #1 | 5298.9 | 67236. | 3092.3 |
| #2 | 5307.6 | 66263. | 3072.4 |

Sample Name: 280-42159-A-16-A  Acquired: 5/17/2013 23:01:48  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00112** | **52.597** | **.03547** | **.02088** | **.18771** | **.00234** | **.00239** | **122.29** | **.00069** |
| Stddev | .00008 | .070 | .00013 | .00015 | .00008 | .00001 | .00167 | .20 | .00016 |
| %RSD | 7.1848 | .13276 | .35513 | .73774 | .04100 | .54122 | 69.800 | .16256 | 23.291 |
| #1 | .00118 | 52.547 | .03538 | .02099 | .18777 | .00234 | .00356 | 122.43 | .00058 |
| #2 | .00106 | 52.646 | .03556 | .02077 | .18766 | .00233 | .00121 | 122.15 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04610** | **.06957** | **.19024** | **111.84** | **9.5322** | **.11542** | **29.596** | **4.4732** | **.00173** |
| Stddev | .00016 | .00015 | .00022 | .11 | .1095 | .00182 | .132 | .0208 | .00024 |
| %RSD | .35343 | .21839 | .11546 | .09795 | 1.1486 | 1.5758 | .44519 | .46448 | 14.101 |
| #1 | .04599 | .06946 | .19009 | 111.76 | 9.6096 | .11414 | 29.689 | 4.4879 | .00190 |
| #2 | .04622 | .06967 | .19040 | 111.92 | 9.4548 | .11671 | 29.503 | 4.4585 | .00156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4513** | **.10656** | **3.2098** | **.04196** | **.38004** | **.00033** | **.00821** | **1.8157** | **.00306** |
| Stddev | .0009 | .00021 | .0178 | .00017 | .00336 | .00104 | .00415 | .0026 | .00016 |
| %RSD | .03557 | .19757 | .55335 | .40090 | .88374 | 310.29 | 50.577 | .14076 | 5.1773 |
| #1 | 2.4519 | .10641 | 3.1973 | .04208 | .38242 | .00107 | .00527 | 1.8139 | .00317 |
| #2 | 2.4506 | .10670 | 3.2224 | .04184 | .37767 | -.00040 | .01114 | 1.8175 | .00295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29421** | **.06185** | **.27569** | **-.00423** | **-.01411** | **.09679** | **.29501** | **.03473** |
| Stddev | .00021 | .00398 | .00393 | .00024 | .02654 | .00032 | .00213 | .00258 |
| %RSD | .07165 | 6.4288 | 1.4262 | 5.7641 | 188.12 | .33473 | .72297 | 7.4435 |
| #1 | .29436 | .06466 | .27847 | -.00406 | -.03287 | .09702 | .29652 | .03655 |
| #2 | .29406 | .05904 | .27291 | -.00441 | .00466 | .09656 | .29350 | .03290 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5656.9** | **70143.** | **3360.6** |
| Stddev | 3.4 | 402. | 14.6 |
| %RSD | .06046 | .57323 | .43490 |
| #1 | 5659.3 | 69859. | 3350.3 |
| #2 | 5654.5 | 70427. | 3371.0 |

Sample Name: sd 42159-A-16-A@5 Acquired: 5/17/2013 23:04:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **11.569** | **.00635** | **.00325** | **.04151** | **.00045** | **.00282** | **26.779** | **.00016** |
| Stddev | .00004 | .031 | .00337 | .00007 | .00027 | .00003 | .00233 | .115 | .00010 |
| %RSD | 89.711 | .26480 | 53.097 | 2.1100 | .65529 | 5.8654 | 82.724 | .42906 | 61.401 |
| #1 | .00002 | 11.547 | .00397 | .00330 | .04171 | .00046 | .00446 | 26.697 | .00023 |
| #2 | .00008 | 11.590 | .00874 | .00320 | .04132 | .00043 | .00117 | 26.860 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01028** | **.01498** | **.04005** | **22.629** | **2.1720** | **.02285** | **6.4335** | **.98201** | **.00039** |
| Stddev | .00011 | .00034 | .00053 | .095 | .0225 | .00081 | .0044 | .00003 | .00010 |
| %RSD | 1.0242 | 2.2963 | 1.3274 | .42170 | 1.0380 | 3.5495 | .06805 | .00332 | 26.728 |
| #1 | .01021 | .01473 | .03967 | 22.561 | 2.1561 | .02343 | 6.4366 | .98199 | .00046 |
| #2 | .01036 | .01522 | .04042 | 22.696 | 2.1879 | .02228 | 6.4304 | .98203 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47386** | **.02322** | **.68308** | **.00848** | **.03259** | **.00129** | **.00280** | **.45539** | **.00003** |
| Stddev | .01971 | .00013 | .00054 | .00048 | .00100 | .00115 | .00366 | .00012 | .00015 |
| %RSD | 4.1598 | .56087 | .07879 | 5.6651 | 3.0755 | 88.709 | 130.67 | .02738 | 479.94 |
| #1 | .48780 | .02332 | .68270 | .00882 | .03329 | .00211 | .00021 | .45530 | -.00007 |
| #2 | .45992 | .02313 | .68346 | .00814 | .03188 | .00048 | .00538 | .45548 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06467** | **.01512** | **.05907** | **-.00171** | **.02555** | **.02172** | **.06836** | **.01205** |
| Stddev | .00022 | .00030 | .00115 | .00100 | .03418 | .00053 | .00078 | .00026 |
| %RSD | .33579 | 1.9831 | 1.9468 | 58.355 | 133.78 | 2.4478 | 1.1453 | 2.1302 |
| #1 | .06451 | .01491 | .05826 | -.00242 | .04972 | .02135 | .06892 | .01223 |
| #2 | .06482 | .01533 | .05988 | -.00101 | .00138 | .02210 | .06781 | .01187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5380.3** | **66819.** | **3128.3** |
| Stddev | 2.7 | 121. | 10.1 |
| %RSD | .04983 | .18099 | .32257 |
| #1 | 5378.4 | 66733. | 3121.1 |
| #2 | 5382.2 | 66904. | 3135.4 |

Sample Name: 280-42159-A-16-B MS Acquired: 5/17/2013 23:06:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05114** | **86.279** | **.94007** | **.98949** | **2.2044** | **.04289** | **1.8880** | **157.47** | **.09441** |
| Stddev | .00110 | .333 | .00204 | .00048 | .0138 | .00004 | .0009 | .79 | .00016 |
| %RSD | 2.1585 | .38648 | .21749 | .04899 | .62660 | .08640 | .04872 | .49886 | .16702 |
| #1 | .05036 | 86.043 | .94151 | .98915 | 2.1946 | .04292 | 1.8874 | 156.92 | .09452 |
| #2 | .05192 | 86.515 | .93862 | .98983 | 2.2142 | .04286 | 1.8887 | 158.03 | .09430 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49467** | **.27370** | **.41867** | **112.75** | **77.893** | **1.1996** | **79.546** | **5.2866** | **.86599** |
| Stddev | .00036 | .00019 | .00084 | .14 | .302 | .0041 | .111 | .0313 | .00069 |
| %RSD | .07227 | .07010 | .20006 | .12731 | .38783 | .33876 | .13894 | .59111 | .07918 |
| #1 | .49442 | .27356 | .41926 | 112.85 | 77.679 | 1.1968 | 79.624 | 5.2645 | .86551 |
| #2 | .49493 | .27383 | .41808 | 112.65 | 78.106 | 1.2025 | 79.467 | 5.3087 | .86648 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **58.325** | **.54866** | **12.621** | **.47529** | **.26172** | **.30834** | **1.8747** | **4.3072** | **1.7179** |
| Stddev | .252 | .00007 | .001 | .00232 | .00160 | .00138 | .0006 | .0145 | .0005 |
| %RSD | .43256 | .01294 | .01136 | .48887 | .61262 | .44649 | .03324 | .33590 | .02717 |
| #1 | 58.147 | .54871 | 12.622 | .47693 | .26285 | .30736 | 1.8742 | 4.2969 | 1.7183 |
| #2 | 58.504 | .54861 | 12.620 | .47364 | .26058 | .30931 | 1.8751 | 4.3174 | 1.7176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1807** | **1.0017** | **1.2752** | **1.7303** | **1.9028** | **.61445** | **.74135** | **.46991** |
| Stddev | .0069 | .0042 | .0039 | .0024 | .0549 | .00055 | .00151 | .00718 |
| %RSD | .58444 | .42130 | .30903 | .13767 | 2.8844 | .08891 | .20368 | 1.5274 |
| #1 | 1.1758 | .99872 | 1.2780 | 1.7286 | 1.8640 | .61484 | .74028 | .47498 |
| #2 | 1.1856 | 1.0047 | 1.2724 | 1.7320 | 1.9416 | .61406 | .74242 | .46483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5541.2** | **68940.** | **3338.5** |
| Stddev | 24.5 | 29. | 14.5 |
| %RSD | .44169 | .04165 | .43473 |
| #1 | 5523.9 | 68920. | 3348.8 |
| #2 | 5558.5 | 68961. | 3328.2 |

Sample Name: 280-42159-A-16-C MSD Acquired: 5/17/2013 23:08:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05085** | **89.266** | **.94470** | **.99628** | **2.2087** | **.04317** | **1.8990** | **161.80** | **.09520** |
| Stddev | .00040 | .958 | .00088 | .00081 | .0283 | .00045 | .0013 | 1.88 | .00003 |
| %RSD | .78837 | 1.0731 | .09345 | .08141 | 1.2822 | 1.0327 | .06577 | 1.1612 | .02786 |
| #1 | .05057 | 89.943 | .94533 | .99571 | 2.2287 | .04349 | 1.8981 | 163.13 | .09518 |
| #2 | .05114 | 88.589 | .94408 | .99686 | 2.1887 | .04286 | 1.8999 | 160.47 | .09522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49728** | **.28235** | **.40408** | **114.68** | **78.850** | **1.2054** | **80.972** | **4.8689** | **.86852** |
| Stddev | .00024 | .00005 | .00192 | 1.29 | .909 | .0164 | .565 | .0112 | .00135 |
| %RSD | .04746 | .01659 | .47538 | 1.1217 | 1.1529 | 1.3586 | .69726 | .23087 | .15565 |
| #1 | .49745 | .28232 | .40544 | 115.59 | 79.493 | 1.2170 | 81.371 | 4.8768 | .86948 |
| #2 | .49711 | .28239 | .40272 | 113.77 | 78.207 | 1.1939 | 80.572 | 4.8609 | .86757 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **58.698** | **.55072** | **12.917** | **.47653** | **.26171** | **.30216** | **1.8857** | **4.4230** | **1.7257** |
| Stddev | .868 | .00038 | .002 | .00039 | .00043 | .00124 | .0032 | .0068 | .0021 |
| %RSD | 1.4789 | .06868 | .01850 | .08119 | .16332 | .41102 | .16854 | .15401 | .12407 |
| #1 | 59.312 | .55098 | 12.918 | .47680 | .26201 | .30128 | 1.8835 | 4.4181 | 1.7272 |
| #2 | 58.084 | .55045 | 12.915 | .47625 | .26141 | .30303 | 1.8880 | 4.4278 | 1.7242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2286** | **1.0053** | **1.2705** | **1.7404** | **1.8857** | **.61391** | **.73517** | **.46880** |
| Stddev | .0147 | .0106 | .0113 | .0024 | .0379 | .00436 | .00698 | .00043 |
| %RSD | 1.1999 | 1.0528 | .88934 | .13640 | 2.0100 | .71012 | .94986 | .09179 |
| #1 | 1.2391 | 1.0128 | 1.2785 | 1.7420 | 1.8589 | .61699 | .74011 | .46910 |
| #2 | 1.2182 | .99785 | 1.2625 | 1.7387 | 1.9125 | .61083 | .73023 | .46849 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5529.0** | **69511.** | **3339.1** |
| Stddev | 12.7 | 539. | 42.0 |
| %RSD | .22925 | .77597 | 1.2565 |
| #1 | 5520.0 | 69130. | 3309.4 |
| #2 | 5538.0 | 69893. | 3368.8 |

Sample Name: pds 280-42159-A-16-A  Acquired: 5/17/2013 23:11:15  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04064** | **52.520** | **.22426** | **.12050** | **.28661** | **.04480** | **.00327** | **137.14** | **.05035** |
| Stddev | .00006 | .065 | .00140 | .00071 | .00097 | .00030 | .00066 | .14 | .00002 |
| %RSD | .15144 | .12453 | .62411 | .59324 | .33765 | .66524 | 20.216 | .10352 | .04853 |
| #1 | .04068 | 52.567 | .22525 | .12000 | .28730 | .04501 | .00280 | 137.24 | .05037 |
| #2 | .04060 | 52.474 | .22327 | .12101 | .28593 | .04459 | .00374 | 137.04 | .05033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09319** | **.11604** | **.23495** | **109.99** | **32.271** | **.22635** | **48.105** | **4.4110** | **.04727** |
| Stddev | .00003 | .00001 | .00022 | .47 | .071 | .00140 | .068 | .0303 | .00043 |
| %RSD | .03495 | .00906 | .09279 | .42855 | .21947 | .61946 | .14096 | .68695 | .90477 |
| #1 | .09317 | .11603 | .23480 | 110.32 | 32.321 | .22536 | 48.152 | 4.3896 | .04697 |
| #2 | .09322 | .11605 | .23511 | 109.66 | 32.221 | .22735 | 48.057 | 4.4324 | .04757 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.481** | **.15109** | **5.1691** | **.13686** | **.38216** | **.09603** | **.20033** | **6.0760** | **.09353** |
| Stddev | .320 | .00000 | .0000 | .00034 | .00154 | .00025 | .00108 | .0172 | .00174 |
| %RSD | 1.1654 | .00330 | .00037 | .24937 | .40419 | .25975 | .54068 | .28303 | 1.8581 |
| #1 | 27.708 | .15110 | 5.1691 | .13711 | .38107 | .09621 | .20110 | 6.0881 | .09230 |
| #2 | 27.255 | .15109 | 5.1691 | .13662 | .38325 | .09585 | .19957 | 6.0638 | .09475 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33990** | **.26108** | **.32273** | **.18563** | **.48580** | **.14363** | **.48152** | **.07657** |
| Stddev | .00033 | .00070 | .00115 | .00071 | .04068 | .00067 | .00076 | .00088 |
| %RSD | .09691 | .26930 | .35785 | .38288 | 8.3729 | .46572 | .15808 | 1.1522 |
| #1 | .33966 | .26158 | .32192 | .18613 | .45703 | .14316 | .48206 | .07719 |
| #2 | .34013 | .26058 | .32355 | .18512 | .51456 | .14411 | .48098 | .07594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5599.7** | **70162.** | **3365.5** |
| Stddev | 4.1 | 75. | 5.4 |
| %RSD | .07334 | .10678 | .16058 |
| #1 | 5596.8 | 70109. | 3361.7 |
| #2 | 5602.6 | 70215. | 3369.4 |

Sample Name: 280-42159-A-17-A  Acquired: 5/17/2013 23:13:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **58.558** | **.04606** | **.04692** | **.32132** | **.00246** | **-.00378** | W **962.30** | **.00123** |
| Stddev | .00040 | .312 | .00174 | .00085 | .00180 | .00016 | .00200 | .47 | .00029 |
| %RSD | 74.593 | .53278 | 3.7781 | 1.8137 | .55936 | 6.3077 | 52.936 | .04873 | 23.218 |
| #1 | .00025 | 58.337 | .04483 | .04752 | .32005 | .00257 | -.00519 | 961.97 | .00143 |
| #2 | .00082 | 58.778 | .04729 | .04631 | .32259 | .00235 | -.00236 | 962.63 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04387** | **.08825** | **.98154** | **107.22** | **11.659** | **.14399** | **52.580** | **3.9227** | **.00642** |
| Stddev | .00012 | .00022 | .00334 | .56 | .013 | .00019 | .148 | .0127 | .00037 |
| %RSD | .28205 | .25229 | .34004 | .52404 | .11053 | .13519 | .28064 | .32476 | 5.6880 |
| #1 | .04395 | .08841 | .97918 | 107.62 | 11.668 | .14413 | 52.476 | 3.9137 | .00668 |
| #2 | .04378 | .08809 | .98390 | 106.82 | 11.650 | .14385 | 52.684 | 3.9317 | .00616 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.8383** | **.10562** | **3.7738** | **.09809** | **6.7594** | **.38242** | **.00471** | **2.0090** | **.00443** |
| Stddev | .0189 | .00015 | .0065 | .00138 | .0163 | .00087 | .00129 | .0266 | .00011 |
| %RSD | .38977 | .13960 | .17188 | 1.4024 | .24057 | .22846 | 27.268 | 1.3244 | 2.4195 |
| #1 | 4.8250 | .10573 | 3.7783 | .09712 | 6.7709 | .38180 | .00381 | 1.9902 | .00450 |
| #2 | 4.8516 | .10552 | 3.7692 | .09906 | 6.7479 | .38304 | .00562 | 2.0278 | .00435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3280** | **.06479** | **.50604** | **-.00243** | W **-.09402** | **.12391** | **.46042** | **.03781** |
| Stddev | .0081 | .00268 | .00017 | .00032 | .00909 | .00077 | .00088 | .00137 |
| %RSD | .61123 | 4.1346 | .03320 | 12.983 | 9.6665 | .62534 | .19052 | 3.6335 |
| #1 | 1.3223 | .06290 | .50592 | -.00265 | -.08759 | .12336 | .46105 | .03878 |
| #2 | 1.3338 | .06668 | .50616 | -.00220 | -.10044 | .12446 | .45980 | .03684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5401.5** | **67566.** | **3358.6** |
| Stddev | 7.2 | 6. | 30.7 |
| %RSD | .13396 | .00959 | .91362 |
| #1 | 5396.4 | 67571. | 3380.3 |
| #2 | 5406.6 | 67561. | 3336.9 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 23:16:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **47.276** | **-.00137** | **.00143** | **.00174** | **-.00012** | **1.0344** | **.36781** | **-.00071** | **.00204** | **.00008** | **.00021** |
| Stddev | .00049 | .307 | .00196 | .00005 | .00031 | .00010 | .0031 | .00155 | .00010 | .00004 | .00002 | .00013 |
| %RSD | 1139.0 | .64981 | 143.63 | 3.3273 | 17.979 | 87.496 | .29616 | .42110 | 14.244 | 2.0935 | 28.628 | 61.922 |
| #1 | .00039 | 47.493 | .00002 | .00139 | .00197 | -.00019 | 1.0323 | .36671 | -.00064 | .00207 | .00010 | .00030 |
| #2 | -.00030 | 47.059 | -.00276 | .00146 | .00152 | -.00004 | 1.0366 | .36890 | -.00078 | .00201 | .00006 | .00012 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **39.168** | **.21322** | **-.00420** | **.03478** | **.00206** | **-.00132** | F **305.09** | **.00160** | **.00866** | **-.00104** | **5.1915** | **.00368** |
| Stddev | .262 | .04535 | .00394 | .00146 | .00001 | .00034 | 1.44 | .00024 | .00023 | .00007 | .0040 | .00147 |
| %RSD | .66846 | 21.270 | 93.847 | 4.1903 | .28765 | 25.536 | .47118 | 15.266 | 2.6955 | 6.8074 | .07740 | 39.909 |
| #1 | 39.353 | .18115 | -.00141 | .03581 | .00206 | -.00108 | 306.11 | .00143 | .00850 | -.00109 | 5.1887 | .00264 |
| #2 | 38.983 | .24528 | -.00698 | .03375 | .00205 | -.00156 | 304.07 | .00178 | .00883 | -.00099 | 5.1943 | .00472 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00743** | **.02090** | **-.00052** | **.00107** | **5.2134** | **.00325** | **-.00138** | **10.220** | **-.00003** | **.00313** | **-.05137** |
| Stddev | .00178 | .00804 | .00042 | .00012 | .0001 | .00001 | .00196 | .014 | .00048 | .00046 | .00300 |
| %RSD | 24.003 | 38.478 | 81.855 | 11.696 | .00233 | .44452 | 142.54 | .13589 | 1403.1 | 14.792 | 5.8493 |
| #1 | .00616 | .02658 | -.00022 | .00116 | 5.2134 | .00326 | -.00276 | 10.230 | -.00038 | .00345 | -.05350 |
| #2 | .00869 | .01521 | -.00082 | .00098 | 5.2133 | .00324 | .00001 | 10.210 | .00031 | .00280 | -.04925 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5195.1** | **65487.** | **3048.3** |
| Stddev | 12.6 | 53. | 17.0 |
| %RSD | .24162 | .08025 | .55871 |
| #1 | 5204.0 | 65524. | 3036.3 |
| #2 | 5186.3 | 65450. | 3060.3 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 23:18:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50897** | **.50087** | **1.0060** | **.51767** | **.53442** | F **.44614** | **.00631** | **4.6386** | **.50454** | **.50955** | **.49409** | **.49296** |
| Stddev | .00065 | .00132 | .0041 | .00033 | .00028 | .00161 | .00016 | .0028 | .00005 | .00076 | .00017 | .00015 |
| %RSD | .12863 | .26390 | .40548 | .06449 | .05164 | .36154 | 2.5304 | .05972 | .01055 | .14889 | .03391 | .02965 |
| #1 | .50851 | .49994 | 1.0032 | .51743 | .53462 | .44728 | .00619 | 4.6406 | .50458 | .51008 | .49397 | .49286 |
| #2 | .50944 | .50181 | 1.0089 | .51790 | .53423 | .44500 | .00642 | 4.6367 | .50450 | .50901 | .49421 | .49306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9890** | F **58.756** | F **1.1723** | **19.997** | **.50351** | **.48399** | F **5.5619** | **.50265** | **1.0250** | **1.0086** | **-.06258** | **1.0106** |
| Stddev | .0079 | .057 | .0004 | .022 | .00016 | .00022 | .0502 | .00078 | .0021 | .0023 | .00131 | .0046 |
| %RSD | .39925 | .09732 | .03113 | .10894 | .03134 | .04539 | .90258 | .15486 | .20602 | .22743 | 2.0976 | .45151 |
| #1 | 1.9834 | 58.797 | 1.1721 | 20.012 | .50340 | .48414 | 5.5974 | .50210 | 1.0265 | 1.0103 | -.06351 | 1.0074 |
| #2 | 1.9947 | 58.716 | 1.1726 | 19.981 | .50362 | .48383 | 5.5264 | .50320 | 1.0235 | 1.0070 | -.06166 | 1.0139 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0280** | F **4.2434** | **.97529** | **.52595** | **.00064** | **.49661** | **.97874** | **.05971** | **.49444** | **.50160** | **.47026** |
| Stddev | .0021 | .0515 | .00346 | .00089 | .00030 | .00023 | .00337 | .01145 | .00045 | .00119 | .00512 |
| %RSD | .20221 | 1.2138 | .35425 | .16979 | 47.058 | .04626 | .34398 | 19.179 | .09029 | .23797 | 1.0881 |
| #1 | 1.0265 | 4.2070 | .97285 | .52658 | .00043 | .49645 | .97636 | .06781 | .49476 | .50075 | .46664 |
| #2 | 1.0294 | 4.2799 | .97774 | .52532 | .00086 | .49678 | .98112 | .05162 | .49413 | .50244 | .47387 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5280.1** | **66543.** | **3056.6** |
| Stddev | 6.7 | 52. | 1.8 |
| %RSD | .12672 | .07745 | .05767 |
| #1 | 5284.8 | 66580. | 3055.4 |
| #2 | 5275.4 | 66507. | 3057.9 |

Sample Name: CCB Acquired: 5/17/2013 23:21:14 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.00109** | **.00306** | **-.00103** | **.00024** | **-.00005** | **.00235** | **.00242** | **-.00005** | **.00035** | **-.00001** |
| Stddev | .00002 | .00009 | .00161 | .00009 | .00010 | .00007 | .00366 | .00170 | .00000 | .00006 | .00008 |
| %RSD | 6.7830 | 8.6453 | 52.500 | 8.6435 | 42.492 | 125.88 | 156.06 | 70.327 | 6.0280 | 16.888 | 601.39 |
| #1 | .00034 | .00102 | .00193 | -.00097 | .00017 | -.00010 | .00493 | .00122 | -.00005 | .00039 | .00004 |
| #2 | .00037 | .00115 | .00420 | -.00109 | .00031 | -.00001 | -.00024 | .00362 | -.00006 | .00031 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **-.00173** | **.05481** | F **-.00615** | **-.00070** | **.00007** | **.00026** | **-.07435** | **.00042** | **.00245** | **-.00020** |
| Stddev | .00031 | .00046 | .03028 | .00164 | .00291 | .00004 | .00018 | .01122 | .00012 | .00129 | .00128 |
| %RSD | 64.173 | 26.851 | 55.246 | 26.718 | 414.53 | 64.277 | 71.537 | 15.084 | 28.215 | 52.569 | 637.82 |
| #1 | -.00069 | -.00140 | .07623 | -.00731 | .00136 | .00010 | .00039 | -.08228 | .00050 | .00336 | -.00110 |
| #2 | -.00026 | -.00206 | .03340 | -.00499 | -.00276 | .00004 | .00013 | -.06642 | .00033 | .00154 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | | | | |
| Low Limit | | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06199** | W **.00373** | **.00292** | **-.00996** | **-.00097** | **-.00018** | **-.00111** | **.00028** | **.00095** | **.04340** | **.00047** |
| Stddev | .00248 | .00016 | .00300 | .00425 | .00122 | .00007 | .00030 | .00012 | .00056 | .00214 | .00056 |
| %RSD | 4.0050 | 4.3069 | 102.52 | 42.654 | 125.29 | 35.482 | 26.995 | 44.130 | 58.973 | 4.9264 | 119.64 |
| #1 | -.06024 | .00384 | .00080 | -.00695 | -.00184 | -.00023 | -.00090 | .00019 | .00055 | .04491 | .00087 |
| #2 | -.06375 | .00361 | .00504 | -.01296 | -.00011 | -.00014 | -.00132 | .00036 | .00134 | .04188 | .00007 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00299** | **.00226** |
| Stddev | .00071 | .00089 |
| %RSD | 23.730 | 39.397 |
| #1 | .00249 | .00163 |
| #2 | .00349 | .00288 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5422.4** | **67880.** | **3094.5** |
| Stddev | 7.0 | 425. | 4.7 |
| %RSD | .12956 | .62573 | .15110 |
| #1 | 5427.4 | 67580. | 3097.8 |
| #2 | 5417.4 | 68180. | 3091.2 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 23:23:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01054** | F **.15975** | **.01491** | **.10184** | **.01072** | W **.00073** | **.10645** | **.18646** | **.00532** | **.01073** | **.00985** |
| Stddev | .00015 | .00165 | .00167 | .00104 | .00085 | .00009 | .00335 | .00201 | .00022 | .00011 | .00013 |
| %RSD | 1.4497 | 1.0348 | 11.189 | 1.0257 | 7.9063 | 12.009 | 3.1500 | 1.0781 | 4.1759 | 1.0462 | 1.2728 |
| #1 | .01065 | .15858 | .01373 | .10110 | .01131 | .00079 | .10408 | .18504 | .00548 | .01081 | .00994 |
| #2 | .01043 | .16091 | .01609 | .10258 | .01012 | .00067 | .10882 | .18788 | .00516 | .01065 | .00976 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | .00100 | | | | | |
| Range | | 30.000% | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01516** | **.08012** | W **3.6769** | F **.00572** | **.23721** | F **.01416** | **.01963** | **1.1165** | **.04116** | **2.9671** | **.00936** |
| Stddev | .00023 | .00254 | .0215 | .00342 | .00040 | .00001 | .00030 | .0048 | .00016 | .0029 | .00098 |
| %RSD | 1.5435 | 3.1694 | .58363 | 59.873 | .16743 | .04605 | 1.5144 | .43327 | .38484 | .09859 | 10.472 |
| #1 | .01533 | .08191 | 3.6618 | .00330 | .23750 | .01415 | .01984 | 1.1199 | .04105 | 2.9692 | .01006 |
| #2 | .01500 | .07832 | 3.6921 | .00814 | .23693 | .01416 | .01942 | 1.1131 | .04127 | 2.9651 | .00867 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | .01000 | | .01000 | | | | | |
| Range | | | 20.000% | -30.000% | | 30.000% | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05861** | **.00979** | **.01622** | **.40880** | **.09582** | **.01034** | **.01630** | **.01007** | **.01432** | W **.07327** | **.01048** |
| Stddev | .00387 | .00050 | .00065 | .00204 | .00001 | .00005 | .00089 | .00034 | .00067 | .01669 | .00015 |
| %RSD | 6.5988 | 5.1140 | 4.0046 | .49824 | .00656 | .51474 | 5.4530 | 3.4026 | 4.7100 | 22.774 | 1.4633 |
| #1 | -.05588 | .01014 | .01668 | .41024 | .09582 | .01038 | .01567 | .01031 | .01480 | .08507 | .01059 |
| #2 | -.06135 | .00943 | .01576 | .40736 | .09582 | .01030 | .01693 | .00983 | .01385 | .06147 | .01037 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02359** | W **.01810** |
| Stddev | .00053 | .00357 |
| %RSD | 2.2260 | 19.705 |
| #1 | .02396 | .02062 |
| #2 | .02322 | .01557 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5299.8** | **66478.** | **3123.0** |
| Stddev | 15.0 | 185. | 13.5 |
| %RSD | .28305 | .27879 | .43218 |
| #1 | 5310.4 | 66347. | 3132.5 |
| #2 | 5289.2 | 66609. | 3113.4 |

Sample Name: 280-42159-A-18-A  Acquired: 5/17/2013 23:26:10  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **51.291** | **.02548** | **.01989** | **.22338** | **.00234** | **.00158** | **80.278** | **.00074** |
| Stddev | .00057 | .252 | .00127 | .00038 | .00032 | .00012 | .00164 | .314 | .00026 |
| %RSD | 62.058 | .49216 | 5.0023 | 1.9289 | .14321 | 5.2142 | 103.33 | .39057 | 35.255 |
| #1 | .00052 | 51.470 | .02638 | .02016 | .22360 | .00243 | .00274 | 80.500 | .00092 |
| #2 | .00132 | 51.113 | .02458 | .01962 | .22315 | .00226 | .00043 | 80.057 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04268** | **.06256** | **.15877** | **94.731** | **8.9230** | **.11297** | **24.797** | **2.8971** | **.00108** |
| Stddev | .00016 | .00015 | .00020 | .596 | .0939 | .00014 | .033 | .0029 | .00001 |
| %RSD | .36492 | .23868 | .12879 | .62932 | 1.0520 | .12620 | .13126 | .09852 | .62320 |
| #1 | .04257 | .06245 | .15863 | 94.309 | 8.8566 | .11287 | 24.820 | 2.8991 | .00107 |
| #2 | .04279 | .06267 | .15892 | 95.152 | 8.9894 | .11307 | 24.774 | 2.8951 | .00108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98154** | **.09693** | **2.6586** | **.03033** | **.44355** | **.00205** | **.00464** | **1.9430** | **.00290** |
| Stddev | .02048 | .00085 | .0094 | .00245 | .00506 | .00291 | .00368 | .0561 | .00034 |
| %RSD | 2.0870 | .87503 | .35449 | 8.0667 | 1.1403 | 141.57 | 79.216 | 2.8866 | 11.904 |
| #1 | .96705 | .09633 | 2.6519 | .03206 | .43997 | .00411 | .00204 | 1.9034 | .00265 |
| #2 | .99602 | .09753 | 2.6653 | .02860 | .44713 | -.00000 | .00725 | 1.9827 | .00314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15363** | **.05795** | **.23005** | **-.00250** | **-.03881** | **.09577** | **.26799** | **.02190** |
| Stddev | .00065 | .00007 | .00033 | .00094 | .03946 | .00013 | .00173 | .00093 |
| %RSD | .42069 | .11424 | .14235 | 37.646 | 101.68 | .13172 | .64546 | 4.2294 |
| #1 | .15317 | .05799 | .23028 | -.00183 | -.01091 | .09586 | .26922 | .02256 |
| #2 | .15408 | .05790 | .22982 | -.00316 | -.06672 | .09568 | .26677 | .02125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5627.6** | **70046.** | **3324.8** |
| Stddev | 12.0 | 75. | 12.2 |
| %RSD | .21318 | .10667 | .36746 |
| #1 | 5619.1 | 69993. | 3316.2 |
| #2 | 5636.1 | 70099. | 3333.4 |

Sample Name: 280-42159-A-19-A  Acquired: 5/17/2013 23:28:31  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **50.325** | **.02625** | **.05486** | **.31927** | **.00184** | **-.00182** | W **1189.6** | **.00089** |
| Stddev | .00049 | .089 | .00172 | .00049 | .00004 | .00002 | .00030 | 3.3 | .00002 |
| %RSD | 79.946 | .17677 | 6.5491 | .89206 | .01138 | .91467 | 16.476 | .27678 | 2.1413 |
| #1 | .00095 | 50.262 | .02503 | .05520 | .31929 | .00183 | -.00161 | 1187.2 | .00088 |
| #2 | .00026 | 50.388 | .02746 | .05451 | .31924 | .00186 | -.00204 | 1191.9 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03822** | **.08250** | **.27829** | **98.573** | **11.827** | **.13574** | **53.041** | **2.9805** | **.00626** |
| Stddev | .00037 | .00006 | .00051 | .547 | .044 | .00262 | .123 | .0039 | .00024 |
| %RSD | .95888 | .06984 | .18486 | .55467 | .37570 | 1.9324 | .23126 | .13025 | 3.7922 |
| #1 | .03848 | .08254 | .27865 | 98.960 | 11.796 | .13388 | 53.128 | 2.9833 | .00643 |
| #2 | .03796 | .08246 | .27793 | 98.187 | 11.858 | .13759 | 52.955 | 2.9778 | .00609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.3605** | **.13529** | **3.9924** | **.08315** | **17.223** | **.00586** | **.00505** | **1.8078** | **.00357** |
| Stddev | .0141 | .00011 | .0056 | .00184 | .036 | .00125 | .00364 | .0352 | .00024 |
| %RSD | .32350 | .08216 | .14039 | 2.2130 | .20921 | 21.331 | 72.019 | 1.9442 | 6.7535 |
| #1 | 4.3506 | .13537 | 3.9964 | .08185 | 17.249 | .00675 | .00248 | 1.8327 | .00374 |
| #2 | 4.3705 | .13521 | 3.9884 | .08445 | 17.198 | .00498 | .00763 | 1.7830 | .00340 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6532** | **.05608** | **.27739** | **-.00136** | W **-.05992** | **.51384** | **.91414** | **.03514** |
| Stddev | .0061 | .00230 | .00060 | .00081 | .00651 | .00411 | .00358 | .00113 |
| %RSD | .22995 | 4.0976 | .21719 | 59.887 | 10.862 | .79926 | .39179 | 3.2189 |
| #1 | 2.6489 | .05771 | .27781 | -.00078 | -.05531 | .51674 | .91667 | .03434 |
| #2 | 2.6575 | .05446 | .27696 | -.00194 | -.06452 | .51094 | .91161 | .03594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5252.0** | **66452.** | **3285.5** |
| Stddev | 10.9 | 27. | 2.1 |
| %RSD | .20723 | .04109 | .06404 |
| #1 | 5244.3 | 66433. | 3284.0 |
| #2 | 5259.7 | 66472. | 3286.9 |

Sample Name: 280-42159-A-20-A  Acquired: 5/17/2013 23:31:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **49.774** | **.04745** | **.02211** | **.24208** | **.00220** | **.00159** | **53.011** | **.00284** |
| Stddev | .00058 | .318 | .00188 | .00035 | .00149 | .00007 | .00308 | .362 | .00001 |
| %RSD | 268.29 | .63837 | 3.9578 | 1.5697 | .61693 | 3.2177 | 193.95 | .68276 | .34387 |
| #1 | -.00019 | 49.550 | .04878 | .02236 | .24102 | .00225 | -.00059 | 52.755 | .00283 |
| #2 | .00063 | 49.999 | .04612 | .02187 | .24314 | .00215 | .00377 | 53.267 | .00284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04060** | **.05906** | **.23219** | **106.62** | **9.0209** | **.10184** | **23.623** | **2.7736** | **.00303** |
| Stddev | .00018 | .00020 | .00082 | .05 | .0528 | .00109 | .004 | .0021 | .00013 |
| %RSD | .43271 | .34166 | .35371 | .04328 | .58498 | 1.0724 | .01555 | .07530 | 4.2825 |
| #1 | .04072 | .05892 | .23161 | 106.66 | 8.9836 | .10107 | 23.625 | 2.7721 | .00294 |
| #2 | .04047 | .05921 | .23278 | 106.59 | 9.0582 | .10261 | 23.620 | 2.7750 | .00313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.7911** | **.08125** | **3.3022** | **.08583** | **2.4647** | **-.00180** | **.00769** | **2.1650** | **.00628** |
| Stddev | .0169 | .00033 | .0209 | .00238 | .0120 | .00134 | .00089 | .0834 | .00041 |
| %RSD | .35338 | .40197 | .63134 | 2.7722 | .48599 | 74.142 | 11.530 | 3.8536 | 6.5453 |
| #1 | 4.7791 | .08101 | 3.2875 | .08415 | 2.4562 | -.00086 | .00707 | 2.1060 | .00599 |
| #2 | 4.8031 | .08148 | 3.3170 | .08751 | 2.4731 | -.00275 | .00832 | 2.2240 | .00657 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16601** | **.05604** | **.31260** | **-.00297** | **-.00961** | **.10885** | **.39163** | **.01079** |
| Stddev | .00022 | .00076 | .00484 | .00097 | .00652 | .00002 | .00009 | .00162 |
| %RSD | .13461 | 1.3611 | 1.5489 | 32.676 | 67.812 | .01727 | .02275 | 15.033 |
| #1 | .16617 | .05658 | .31602 | -.00229 | -.00500 | .10884 | .39169 | .01194 |
| #2 | .16585 | .05550 | .30918 | -.00366 | -.01423 | .10887 | .39157 | .00965 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5596.3** | **69326.** | **3320.4** |
| Stddev | 13.2 | 83. | 19.2 |
| %RSD | .23544 | .11978 | .57851 |
| #1 | 5605.7 | 69267. | 3334.0 |
| #2 | 5587.0 | 69384. | 3306.8 |

Sample Name: 280-42159-A-21-A  Acquired: 5/17/2013 23:33:48  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **57.046** | **.04216** | **.02321** | **.22997** | **.00239** | **.00160** | **100.22** | **.00177** |
| Stddev | .00051 | .294 | .00129 | .00010 | .00120 | .00008 | .00024 | .37 | .00008 |
| %RSD | 66.163 | .51482 | 3.0504 | .41665 | .52287 | 3.4397 | 14.876 | .37231 | 4.6356 |
| #1 | .00113 | 56.838 | .04307 | .02328 | .22912 | .00233 | .00177 | 99.955 | .00172 |
| #2 | .00041 | 57.253 | .04125 | .02314 | .23082 | .00245 | .00144 | 100.48 | .00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04205** | **.06819** | **.22389** | **123.55** | **9.9451** | **.12708** | **26.903** | **2.5121** | **.00289** |
| Stddev | .00024 | .00068 | .00030 | .10 | .0063 | .00014 | .096 | .0127 | .00053 |
| %RSD | .57041 | .99110 | .13364 | .08497 | .06380 | .10895 | .35820 | .50343 | 18.192 |
| #1 | .04222 | .06866 | .22368 | 123.62 | 9.9496 | .12717 | 26.835 | 2.5031 | .00327 |
| #2 | .04188 | .06771 | .22410 | 123.47 | 9.9406 | .12698 | 26.971 | 2.5210 | .00252 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.4818** | **.09626** | **4.5621** | **.06483** | **1.4153** | **.00088** | **.00729** | **1.6978** | **.00546** |
| Stddev | .0316 | .00009 | .0266 | .00001 | .0079 | .00090 | .00292 | .0103 | .00086 |
| %RSD | .70549 | .09624 | .58356 | .00776 | .56056 | 101.86 | 40.045 | .60366 | 15.734 |
| #1 | 4.4595 | .09633 | 4.5810 | .06483 | 1.4209 | .00152 | .00936 | 1.6906 | .00607 |
| #2 | 4.5042 | .09620 | 4.5433 | .06483 | 1.4097 | .00025 | .00523 | 1.7051 | .00485 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27773** | **.06596** | **.29227** | **-.00204** | **-.01504** | **.11104** | **.35008** | **.01411** |
| Stddev | .00100 | .00129 | .00250 | .00053 | .00599 | .00035 | .00049 | .00239 |
| %RSD | .36154 | 1.9537 | .85507 | 26.241 | 39.832 | .31187 | .14006 | 16.925 |
| #1 | .27702 | .06505 | .29050 | -.00166 | -.01080 | .11129 | .34973 | .01580 |
| #2 | .27844 | .06687 | .29404 | -.00242 | -.01927 | .11080 | .35042 | .01242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5634.6** | **70203.** | **3329.1** |
| Stddev | 4.6 | 56. | 4.2 |
| %RSD | .08193 | .08003 | .12599 |
| #1 | 5637.8 | 70163. | 3332.1 |
| #2 | 5631.3 | 70243. | 3326.2 |

Sample Name: 280-42159-A-22-A  Acquired: 5/17/2013 23:36:08  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **36.544** | **.01571** | **.05959** | **.24418** | **.00145** | **-.00349** | W **1643.7** | **.00066** |
| Stddev | .00064 | .069 | .00561 | .00142 | .00053 | .00009 | .00034 | 6.5 | .00004 |
| %RSD | 172.36 | .18882 | 35.707 | 2.3856 | .21512 | 6.1587 | 9.6969 | .39562 | 5.4874 |
| #1 | .00008 | 36.495 | .01174 | .06060 | .24455 | .00151 | -.00325 | 1639.1 | .00063 |
| #2 | -.00082 | 36.592 | .01967 | .05859 | .24381 | .00139 | -.00373 | 1648.3 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02865** | **.06551** | **.25726** | **68.496** | **10.481** | **.11158** | **55.085** | **2.0915** | **.00525** |
| Stddev | .00035 | .00007 | .00057 | .028 | .042 | .00042 | .079 | .0020 | .00001 |
| %RSD | 1.2087 | .11052 | .21980 | .04039 | .40186 | .37260 | .14297 | .09771 | .26400 |
| #1 | .02890 | .06546 | .25766 | 68.515 | 10.451 | .11129 | 55.141 | 2.0930 | .00524 |
| #2 | .02841 | .06556 | .25686 | 68.476 | 10.511 | .11188 | 55.030 | 2.0901 | .00526 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.2376** | **.11763** | **3.9544** | **.06069** | **19.980** | **.00886** | **.00684** | **1.5533** | **.00268** |
| Stddev | .0089 | .00071 | .0107 | .00005 | .021 | .00154 | .00496 | .0007 | .00041 |
| %RSD | .21114 | .60177 | .27107 | .08298 | .10316 | 17.327 | 72.484 | .04557 | 15.454 |
| #1 | 4.2313 | .11813 | 3.9619 | .06066 | 19.994 | .00995 | .00333 | 1.5528 | .00297 |
| #2 | 4.2439 | .11713 | 3.9468 | .06073 | 19.965 | .00778 | .01035 | 1.5538 | .00238 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4970** | **.04030** | **.28971** | **.00088** | W **-.07675** | **.57265** | **.30880** | **.03176** |
| Stddev | .0060 | .00132 | .00152 | .00052 | .02790 | .00011 | .00097 | .00309 |
| %RSD | .17003 | 3.2697 | .52446 | 59.087 | 36.346 | .01940 | .31557 | 9.7438 |
| #1 | 3.4928 | .03937 | .28863 | .00125 | -.05703 | .57272 | .30811 | .03394 |
| #2 | 3.5012 | .04124 | .29078 | .00051 | -.09648 | .57257 | .30948 | .02957 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5161.6** | **65051.** | **3206.3** |
| Stddev | 1.3 | 112. | 5.4 |
| %RSD | .02425 | .17274 | .16953 |
| #1 | 5160.8 | 64971. | 3202.4 |
| #2 | 5162.5 | 65130. | 3210.1 |

Sample Name: 280-42159-A-23-A Acquired: 5/17/2013 23:39:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **59.046** | **.02864** | **.01703** | **.25364** | **.00219** | **.00354** | **56.348** | **.00143** |
| Stddev | .00063 | .146 | .00355 | .00004 | .00119 | .00012 | .00392 | .167 | .00005 |
| %RSD | 315.68 | .24801 | 12.413 | .26406 | .47055 | 5.3847 | 110.64 | .29635 | 3.3593 |
| #1 | -.00025 | 59.150 | .03115 | .01700 | .25449 | .00227 | .00631 | 56.466 | .00140 |
| #2 | .00065 | 58.943 | .02613 | .01706 | .25280 | .00211 | .00077 | 56.230 | .00147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04327** | **.06963** | **.18606** | **102.36** | **8.5630** | **.12769** | **24.546** | **4.4220** | **.00224** |
| Stddev | .00000 | .00012 | .00038 | .77 | .0029 | .00257 | .023 | .0006 | .00005 |
| %RSD | .00801 | .17696 | .20554 | .74854 | .03400 | 2.0129 | .09550 | .01243 | 2.2485 |
| #1 | .04327 | .06954 | .18633 | 102.90 | 8.5650 | .12950 | 24.529 | 4.4216 | .00227 |
| #2 | .04326 | .06971 | .18579 | 101.82 | 8.5609 | .12587 | 24.562 | 4.4224 | .00220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5926** | **.09343** | **3.2605** | **.05477** | **2.4724** | **.00085** | **.00382** | **1.9638** | **.00393** |
| Stddev | .0343 | .00004 | .0055 | .00007 | .0034 | .00117 | .00093 | .0331 | .00054 |
| %RSD | 2.1527 | .04653 | .16705 | .12856 | .13707 | 138.52 | 24.264 | 1.6860 | 13.624 |
| #1 | 1.6168 | .09346 | 3.2566 | .05472 | 2.4748 | .00002 | .00317 | 1.9872 | .00355 |
| #2 | 1.5683 | .09340 | 3.2643 | .05482 | 2.4700 | .00167 | .00448 | 1.9404 | .00431 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11773** | **.05868** | **.30415** | **-.00479** | **.02129** | **.11139** | **.37119** | **.01096** |
| Stddev | .00000 | .00129 | .00160 | .00000 | .01394 | .00050 | .00113 | .00169 |
| %RSD | .00136 | 2.1977 | .52491 | .09209 | 65.480 | .44997 | .30402 | 15.411 |
| #1 | .11773 | .05776 | .30528 | -.00479 | .01143 | .11174 | .37040 | .01215 |
| #2 | .11773 | .05959 | .30302 | -.00480 | .03114 | .11103 | .37199 | .00976 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5639.0** | **69775.** | **3305.7** |
| Stddev | 15.4 | 48. | 13.9 |
| %RSD | .27259 | .06899 | .42062 |
| #1 | 5628.1 | 69741. | 3295.8 |
| #2 | 5649.8 | 69809. | 3315.5 |

Sample Name: 280-42159-A-24-A  Acquired: 5/17/2013 23:41:33  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174359 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **34.340** | **.01523** | **.07191** | **.14369** | **.00110** | **-.00935** | W **1913.4** | **.00061** |
| Stddev | .00014 | .234 | .00183 | .00096 | .00028 | .00007 | .00051 | 13.5 | .00009 |
| %RSD | 62.356 | .68095 | 12.006 | 1.3338 | .19355 | 6.5609 | 5.4999 | .70450 | 14.303 |
| #1 | -.00031 | 34.175 | .01652 | .07123 | .14349 | .00115 | -.00898 | 1903.9 | .00055 |
| #2 | -.00012 | 34.506 | .01393 | .07259 | .14388 | .00105 | -.00971 | 1923.0 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02599** | **.06606** | **.52267** | **57.548** | **11.258** | **.16655** | **101.25** | **2.2303** | **.00344** |
| Stddev | .00011 | .00026 | .00100 | .453 | .184 | .00048 | .24 | .0037 | .00020 |
| %RSD | .43012 | .39904 | .19111 | .78716 | 1.6312 | .28555 | .23401 | .16607 | 5.7394 |
| #1 | .02607 | .06587 | .52338 | 57.227 | 11.128 | .16688 | 101.41 | 2.2329 | .00357 |
| #2 | .02591 | .06624 | .52196 | 57.868 | 11.388 | .16621 | 101.08 | 2.2277 | .00330 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.5059** | **.10281** | **2.5249** | **.08020** | **15.956** | **.01724** | **.00339** | **1.9150** | **.00253** |
| Stddev | .0245 | .00003 | .0091 | .00156 | .010 | .00245 | .00356 | .0042 | .00005 |
| %RSD | .54327 | .02450 | .35828 | 1.9455 | .06235 | 14.217 | 105.09 | .22001 | 1.9140 |
| #1 | 4.4886 | .10283 | 2.5185 | .07909 | 15.949 | .01551 | .00087 | 1.9179 | .00250 |
| #2 | 4.5233 | .10280 | 2.5313 | .08130 | 15.963 | .01898 | .00591 | 1.9120 | .00256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6189** | **.03718** | **.22502** | **-.00015** | F **-.11515** | **.35623** | **.28016** | **.03289** |
| Stddev | .0284 | .00198 | .00049 | .00183 | .04390 | .00160 | .00058 | .00080 |
| %RSD | 1.0843 | 5.3202 | .21572 | 1195.6 | 38.122 | .44846 | .20805 | 2.4201 |
| #1 | 2.5988 | .03858 | .22537 | .00114 | -.14619 | .35736 | .27975 | .03233 |
| #2 | 2.6390 | .03578 | .22468 | -.00144 | -.08411 | .35510 | .28057 | .03346 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5071.7** | **64055.** | **3189.3** |
| Stddev | 4.2 | 354. | 21.9 |
| %RSD | .08327 | .55306 | .68726 |
| #1 | 5068.8 | 63805. | 3204.8 |
| #2 | 5074.7 | 64306. | 3173.8 |

Sample Name: CCVH-2050355 Acquired: 5/17/2013 23:44:33 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **46.908** | **-.00188** | **-.00082** | **.00069** | **-.00003** | **1.0270** | **.03018** | **-.00071** | **.00175** | **-.00007** | **-.00034** |
| Stddev | .00097 | .192 | .00364 | .00038 | .00018 | .00003 | .0048 | .01567 | .00006 | .00003 | .00006 | .00001 |
| %RSD | 345.53 | .40960 | 193.06 | 46.446 | 25.432 | 98.344 | .46822 | 51.908 | 8.8563 | 1.6983 | 81.177 | 1.5529 |
| #1 | -.00041 | 47.044 | -.00445 | -.00055 | .00081 | -.00001 | 1.0236 | .04126 | -.00067 | .00173 | -.00003 | -.00034 |
| #2 | .00097 | 46.772 | .00069 | -.00109 | .00056 | -.00004 | 1.0304 | .01911 | -.00076 | .00177 | -.00011 | -.00035 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.767** | **.21618** | **-.00361** | **.01191** | **-.00003** | **-.00184** | F **303.61** | **.00132** | **.00386** | **.00121** | **5.1899** | **.00406** |
| Stddev | .228 | .03120 | .00052 | .00037 | .00004 | .00006 | 1.68 | .00007 | .00187 | .00053 | .0369 | .00109 |
| %RSD | .58722 | 14.432 | 14.492 | 3.1277 | 137.15 | 3.3636 | .55227 | 5.2254 | 48.436 | 43.485 | .71112 | 26.960 |
| #1 | 38.928 | .19412 | -.00398 | .01218 | -.00006 | -.00180 | 304.79 | .00137 | .00254 | .00158 | 5.1638 | .00328 |
| #2 | 38.606 | .23824 | -.00324 | .01165 | -.00000 | -.00189 | 302.42 | .00127 | .00518 | .00084 | 5.2160 | .00483 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00840** | **-.00072** | **-.00064** | **.00027** | **5.2166** | **.00365** | **-.00203** | **10.178** | **.00070** | **.00254** | **-.06035** |
| Stddev | .00214 | .01413 | .00007 | .00018 | .0112 | .00117 | .00163 | .035 | .00039 | .00008 | .00335 |
| %RSD | 25.468 | 1952.6 | 10.723 | 65.167 | .21382 | 32.075 | 80.365 | .34196 | 56.665 | 3.2147 | 5.5445 |
| #1 | .00689 | .00927 | -.00069 | .00015 | 5.2087 | .00448 | -.00088 | 10.154 | .00098 | .00248 | -.05798 |
| #2 | .00991 | -.01072 | -.00059 | .00039 | 5.2245 | .00282 | -.00318 | 10.203 | .00042 | .00259 | -.06271 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5120.1** | **64337.** | **3002.7** |
| Stddev | 2.2 | 25. | 17.6 |
| %RSD | .04300 | .03835 | .58764 |
| #1 | 5121.7 | 64319. | 2990.2 |
| #2 | 5118.6 | 64354. | 3015.2 |

Sample Name: CCV-2050339 Acquired: 5/17/2013 23:46:57 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50905** | **.50445** | **1.0044** | **.51682** | **.52758** | F **.43991** | **.00510** | **4.5832** | **.50385** | **.51005** | **.49269** | **.49035** |
| Stddev | .00028 | .00225 | .0014 | .00081 | .00132 | .00191 | .00020 | .0003 | .00108 | .00035 | .00086 | .00004 |
| %RSD | .05492 | .44596 | .13530 | .15608 | .24957 | .43443 | 3.9318 | .00660 | .21534 | .06895 | .17530 | .00791 |
| #1 | .50885 | .50604 | 1.0053 | .51625 | .52851 | .44126 | .00524 | 4.5830 | .50308 | .50980 | .49208 | .49038 |
| #2 | .50925 | .50286 | 1.0034 | .51739 | .52665 | .43856 | .00496 | 4.5835 | .50462 | .51029 | .49330 | .49032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9666** | F **58.801** | F **1.1691** | **19.982** | **.50248** | **.48237** | **5.4910** | **.50132** | **1.0258** | **1.0036** | **-.05786** | **1.0099** |
| Stddev | .0033 | .098 | .0022 | .016 | .00021 | .00067 | .0272 | .00032 | .0008 | .0002 | .00147 | .0004 |
| %RSD | .16765 | .16701 | .18712 | .07963 | .04218 | .13972 | .49526 | .06457 | .07294 | .01766 | 2.5471 | .03989 |
| #1 | 1.9643 | 58.871 | 1.1676 | 19.994 | .50263 | .48285 | 5.5102 | .50109 | 1.0252 | 1.0035 | -.05682 | 1.0096 |
| #2 | 1.9690 | 58.732 | 1.1707 | 19.971 | .50233 | .48190 | 5.4718 | .50155 | 1.0263 | 1.0037 | -.05890 | 1.0101 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0278** | F **4.1835** | **.96705** | **.52358** | **.00044** | **.49448** | **.97286** | **.04145** | **.49226** | **.50346** | **.45949** |
| Stddev | .0004 | .0548 | .00019 | .00017 | .00180 | .00080 | .00071 | .01055 | .00180 | .00129 | .00494 |
| %RSD | .04075 | 1.3100 | .01948 | .03314 | 413.46 | .16260 | .07330 | 25.443 | .36628 | .25627 | 1.0745 |
| #1 | 1.0275 | 4.2222 | .96719 | .52370 | .00171 | .49391 | .97336 | .04891 | .49353 | .50438 | .46298 |
| #2 | 1.0281 | 4.1447 | .96692 | .52346 | -.00084 | .49504 | .97236 | .03399 | .49098 | .50255 | .45599 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5269.1** | **66034.** | **3040.1** |
| Stddev | 15.9 | 137. | 14.1 |
| %RSD | .30184 | .20750 | .46321 |
| #1 | 5257.8 | 66130. | 3030.2 |
| #2 | 5280.3 | 65937. | 3050.1 |

Sample Name: CCB Acquired: 5/17/2013 23:49:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00080** | **.00217** | **.00305** | **-.00105** | **.00034** | **-.00007** | **.00219** | W **.03731** | **-.00029** | **.00010** | **.00003** |
| Stddev | .00002 | .00012 | .00182 | .00043 | .00024 | .00015 | .00179 | .02324 | .00022 | .00001 | .00042 |
| %RSD | 2.5787 | 5.5534 | 59.603 | 40.627 | 72.440 | 217.20 | 81.984 | 62.285 | 78.277 | 7.4322 | 1287.8 |
| #1 | .00078 | .00226 | .00434 | -.00075 | .00051 | -.00018 | .00346 | .02088 | -.00013 | .00011 | -.00027 |
| #2 | .00081 | .00209 | .00176 | -.00135 | .00016 | .00004 | .00092 | .05374 | -.00045 | .00009 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .03450 | | | |
| Low Limit | | | | | | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **.00421** | **.12687** | F **-.00560** | **.00223** | **.00016** | **.00042** | **-.07732** | **.00057** | **-.00004** | **-.00049** |
| Stddev | .00006 | .00262 | .01332 | .00124 | .00002 | .00003 | .00030 | .01251 | .00003 | .00105 | .00018 |
| %RSD | 24.792 | 62.103 | 10.496 | 22.172 | 1.0575 | 19.169 | 72.182 | 16.185 | 5.1785 | 2914.2 | 35.969 |
| #1 | -.00021 | .00606 | .13628 | -.00647 | .00225 | .00014 | .00020 | -.08617 | .00060 | -.00078 | -.00037 |
| #2 | -.00030 | .00236 | .11745 | -.00472 | .00221 | .00019 | .00063 | -.06847 | .00055 | .00071 | -.00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | | | | |
| Low Limit | | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05871** | W **.00345** | **.00132** | **-.00150** | **-.00137** | **-.00013** | **-.00096** | **.00034** | **-.00021** | F **.05228** | **.00079** |
| Stddev | .00004 | .00092 | .00276 | .00928 | .00067 | .00012 | .00012 | .00039 | .00031 | .06055 | .00008 |
| %RSD | .07425 | 26.753 | 209.45 | 618.67 | 49.101 | 94.804 | 12.213 | 114.66 | 144.25 | 115.81 | 9.5560 |
| #1 | -.05868 | .00410 | -.00063 | -.00806 | -.00185 | -.00021 | -.00088 | .00062 | -.00043 | .09509 | .00074 |
| #2 | -.05874 | .00280 | .00327 | .00506 | -.00090 | -.00004 | -.00104 | .00006 | .00000 | .00947 | .00085 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .00314 | | | | | | | | .05000 | |
| Low Limit | | -.00314 | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00268** | W **.00323** |
| Stddev | .00015 | .00303 |
| %RSD | 5.6786 | 93.790 |
| #1 | .00257 | .00109 |
| #2 | .00278 | .00537 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5349.6** | **66751.** | **3080.1** |
| Stddev | 7.6 | 118. | 18.3 |
| %RSD | .14195 | .17669 | .59259 |
| #1 | 5355.0 | 66667. | 3067.2 |
| #2 | 5344.3 | 66834. | 3093.0 |

Sample Name: CCVL2057887 Acquired: 5/17/2013 23:51:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01145** | **.10288** | **.01261** | **.10196** | **.01123** | **.00081** | **.10381** | **.20222** | **.00517** | **.01060** | **.01003** |
| Stddev | .00028 | .00038 | .00207 | .00048 | .00021 | .00007 | .00200 | .00237 | .00017 | .00019 | .00005 |
| %RSD | 2.4610 | .37163 | 16.412 | .46600 | 1.8876 | 8.6284 | 1.9229 | 1.1743 | 3.3732 | 1.7621 | .46423 |
| #1 | .01125 | .10315 | .01114 | .10162 | .01108 | .00086 | .10522 | .20054 | .00505 | .01073 | .01006 |
| #2 | .01165 | .10261 | .01407 | .10230 | .01138 | .00076 | .10240 | .20390 | .00529 | .01047 | .01000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01415** | W **.07993** | W **3.7282** | F **.00380** | **.20687** | **.01041** | **.01942** | **1.1114** | **.04130** | **2.9853** | W **.01108** |
| Stddev | .00051 | .00142 | .0314 | .00096 | .00440 | .00001 | .00020 | .0002 | .00042 | .0010 | .00097 |
| %RSD | 3.6370 | 1.7810 | .84139 | 25.150 | 2.1290 | .11306 | 1.0365 | .01992 | 1.0284 | .03404 | 8.7817 |
| #1 | .01379 | .08094 | 3.7060 | .00313 | .20998 | .01042 | .01928 | 1.1112 | .04100 | 2.9860 | .01039 |
| #2 | .01451 | .07892 | 3.7504 | .00448 | .20376 | .01040 | .01956 | 1.1115 | .04160 | 2.9846 | .01177 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | .10000 | 3.0000 | .01000 | | | | | | | .00900 |
| Range | | -20.000% | 20.000% | -30.000% | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05975** | **.01193** | **.01579** | **.43010** | **.09631** | **.01079** | **.01498** | **.01037** | **.01353** | F **.08735** | **.00993** |
| Stddev | .00060 | .00022 | .00396 | .00184 | .00011 | .00023 | .00253 | .00023 | .00055 | .04638 | .00054 |
| %RSD | .99963 | 1.8140 | 25.092 | .42882 | .11083 | 2.1127 | 16.881 | 2.1960 | 4.0592 | 53.089 | 5.4653 |
| #1 | -.06017 | .01178 | .01859 | .43140 | .09623 | .01095 | .01319 | .01053 | .01392 | .12015 | .00954 |
| #2 | -.05933 | .01209 | .01299 | .42879 | .09639 | .01063 | .01676 | .01021 | .01314 | .05456 | .01031 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02306** | **.01384** |
| Stddev | .00046 | .00097 |
| %RSD | 1.9828 | 6.9990 |
| #1 | .02339 | .01315 |
| #2 | .02274 | .01452 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5280.4** | **65634.** | **3034.8** |
| Stddev | .8 | 27. | 22.9 |
| %RSD | .01543 | .04075 | .75449 |
| #1 | 5281.0 | 65653. | 3018.6 |
| #2 | 5279.8 | 65616. | 3051.0 |

Sample Name: MB 280-173687/1-A Acquired: 5/17/2013 23:54:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.04318** | **-.00121** | **-.00077** | **.00035** | **-.00008** | **.00113** | **.01203** | **.00011** |
| Stddev | .00017 | .00155 | .00188 | .00055 | .00013 | .00000 | .00009 | .00351 | .00010 |
| %RSD | 27.870 | 3.5795 | 155.21 | 72.036 | 37.455 | 2.8221 | 7.9628 | 29.149 | 82.958 |
| #1 | .00071 | .04209 | -.00253 | -.00038 | .00044 | -.00008 | .00119 | .01451 | .00018 |
| #2 | .00048 | .04427 | .00012 | -.00116 | .00025 | -.00009 | .00106 | .00955 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00021** | **-.00047** | **.00417** | **.09803** | **-.00290** | **.00113** | **.00020** | **.00050** |
| Stddev | .00010 | .00028 | .00000 | .00215 | .06090 | .00148 | .00016 | .00005 | .00014 |
| %RSD | 137.44 | 131.63 | .72043 | 51.434 | 62.127 | 51.006 | 14.326 | 25.841 | 28.821 |
| #1 | .00015 | .00001 | -.00047 | .00569 | .05496 | -.00186 | .00125 | .00017 | .00040 |
| #2 | .00000 | .00041 | -.00047 | .00266 | .14109 | -.00395 | .00102 | .00024 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.08639** | **.00040** | F **.27932** | **.00105** | **-.05166** | **.00209** | **.00429** | **.01466** | **-.00099** |
| Stddev | .01089 | .00025 | .00175 | .00102 | .00248 | .00137 | .00183 | .05084 | .00000 |
| %RSD | 12.599 | 63.734 | .62626 | 97.237 | 4.7997 | 65.743 | 42.595 | 346.76 | .03614 |
| #1 | -.07870 | .00058 | .27809 | .00176 | -.05342 | .00305 | .00300 | .05061 | -.00099 |
| #2 | -.09409 | .00022 | .28056 | .00033 | -.04991 | .00112 | .00558 | -.02129 | -.00099 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00162** | **.00040** | **-.00135** | **.00059** | **.00042** | **.00300** | **-.00005** |
| Stddev | .00007 | .00148 | .00012 | .00076 | .00160 | .00029 | .00019 | .00191 |
| %RSD | 39.501 | 91.523 | 31.438 | 56.038 | 271.14 | 70.474 | 6.3432 | 3736.7 |
| #1 | -.00024 | .00266 | .00031 | -.00082 | .00173 | .00062 | .00287 | .00130 |
| #2 | -.00014 | .00057 | .00048 | -.00189 | -.00054 | .00021 | .00313 | -.00140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5374.7** | **66824.** | **3070.1** |
| Stddev | 10.3 | 108. | 23.2 |
| %RSD | .19089 | .16158 | .75546 |
| #1 | 5381.9 | 66747. | 3086.5 |
| #2 | 5367.4 | 66900. | 3053.7 |

Sample Name: LCS 280-173687/2-A Acquired: 5/17/2013 23:56:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05404** | **1.9996** | **1.0131** | **1.0618** | **2.1779** | **.04539** | **2.1014** | **46.531** | **.10537** |
| Stddev | .00004 | .0020 | .0003 | .0008 | .0203 | .00010 | .0065 | .252 | .00049 |
| %RSD | .08188 | .09917 | .02920 | .08018 | .93173 | .21370 | .30782 | .54233 | .46212 |
| #1 | .05407 | 2.0010 | 1.0133 | 1.0612 | 2.1635 | .04546 | 2.0968 | 46.353 | .10503 |
| #2 | .05401 | 1.9982 | 1.0128 | 1.0624 | 2.1922 | .04532 | 2.1060 | 46.709 | .10572 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51246** | **.20246** | **.25108** | F **.86771** | F **60.609** | F **1.1913** | **50.654** | **.51061** | **.99991** |
| Stddev | .00075 | .00001 | .00045 | .00040 | .019 | .0070 | .067 | .00030 | .00174 |
| %RSD | .14570 | .00610 | .18095 | .04623 | .03062 | .59156 | .13278 | .05814 | .17381 |
| #1 | .51193 | .20245 | .25076 | .86743 | 60.596 | 1.1863 | 50.701 | .51081 | 1.0011 |
| #2 | .51299 | .20247 | .25140 | .86800 | 60.622 | 1.1963 | 50.606 | .51040 | .99868 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | 57.000 | 1.1400 | | | |
| Low Limit | | | | .88000 | 44.500 | .89000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **63.019** | **.50319** | **10.818** | **.50796** | **-.05027** | **.52077** | **2.1067** | F **8.8493** | **1.9898** |
| Stddev | .046 | .00007 | .001 | .00289 | .00051 | .00085 | .0014 | .0500 | .0046 |
| %RSD | .07329 | .01414 | .01283 | .56992 | 1.0139 | .16395 | .06513 | .56475 | .22916 |
| #1 | 63.052 | .50324 | 10.819 | .50591 | -.04991 | .52137 | 2.1057 | 8.8846 | 1.9930 |
| #2 | 62.986 | .50314 | 10.817 | .51000 | -.05063 | .52016 | 2.1076 | 8.8139 | 1.9866 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0729** | **1.0596** | **1.0171** | **2.0022** | **2.1359** | **.50735** | **.50568** | **.46531** |
| Stddev | .0043 | .0027 | .0002 | .0029 | .0325 | .00065 | .00129 | .00027 |
| %RSD | .39982 | .25744 | .01536 | .14695 | 1.5203 | .12841 | .25580 | .05901 |
| #1 | 1.0699 | 1.0615 | 1.0172 | 2.0042 | 2.1589 | .50781 | .50660 | .46512 |
| #2 | 1.0759 | 1.0576 | 1.0170 | 2.0001 | 2.1130 | .50689 | .50477 | .46551 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5193.6** | **65494.** | **3047.5** |
| Stddev | 11.8 | 48. | 6.7 |
| %RSD | .22722 | .07354 | .22078 |
| #1 | 5185.3 | 65460. | 3042.7 |
| #2 | 5202.0 | 65528. | 3052.3 |

Sample Name: 280-41903-A-1-B Acquired: 5/17/2013 23:58:55 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.03199** | **.00526** | **.01377** | **.02970** | **-.00005** | **-.00135** | **62.066** | **.00020** |
| Stddev | .00013 | .00062 | .00245 | .00063 | .00072 | .00033 | .00073 | .238 | .00016 |
| %RSD | 13.148 | 1.9390 | 46.618 | 4.5838 | 2.4108 | 713.09 | 53.691 | .38341 | 83.452 |
| #1 | .00107 | .03155 | .00353 | .01422 | .02919 | -.00028 | -.00187 | 62.234 | .00031 |
| #2 | .00089 | .03243 | .00700 | .01333 | .03020 | .00019 | -.00084 | 61.898 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00518** | **.00056** | **.00307** | **3.8845** | **1.9498** | **-.00123** | **28.659** | **1.1975** | **.00645** |
| Stddev | .00003 | .00008 | .00015 | .0021 | .0100 | .00004 | .010 | .0007 | .00033 |
| %RSD | .60872 | 14.470 | 5.0426 | .05446 | .51251 | 3.2422 | .03317 | .06165 | 5.0982 |
| #1 | .00516 | .00062 | .00296 | 3.8830 | 1.9569 | -.00120 | 28.666 | 1.1970 | .00622 |
| #2 | .00521 | .00050 | .00318 | 3.8860 | 1.9427 | -.00125 | 28.652 | 1.1980 | .00668 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.5942** | **.00320** | **.35924** | **.00281** | **.49805** | **.00151** | **.00064** | **9.6256** | **-.00072** |
| Stddev | .0103 | .00004 | .00072 | .00231 | .00104 | .00196 | .00168 | .0251 | .00015 |
| %RSD | .28696 | 1.1907 | .20028 | 82.104 | .20945 | 129.79 | 263.99 | .26054 | 20.515 |
| #1 | 3.6015 | .00317 | .35975 | .00118 | .49731 | .00012 | -.00055 | 9.6433 | -.00083 |
| #2 | 3.5869 | .00322 | .35873 | .00444 | .49879 | .00290 | .00183 | 9.6079 | -.00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05901** | **.00267** | **.00102** | **-.00166** | **.00775** | **.00130** | **.01899** | **.00051** |
| Stddev | .00025 | .00098 | .00016 | .00095 | .00204 | .00021 | .00036 | .00144 |
| %RSD | .41899 | 36.873 | 15.976 | 57.134 | 26.349 | 16.300 | 1.9009 | 283.31 |
| #1 | .05883 | .00336 | .00113 | -.00233 | .00919 | .00115 | .01873 | -.00051 |
| #2 | .05918 | .00197 | .00090 | -.00099 | .00631 | .00145 | .01924 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5287.8** | **67081.** | **3094.8** |
| Stddev | 10.9 | 57. | 16.3 |
| %RSD | .20558 | .08481 | .52620 |
| #1 | 5295.5 | 67041. | 3083.3 |
| #2 | 5280.1 | 67122. | 3106.4 |

Sample Name: sd 280-41903-A-1-B@5 Acquired: 5/18/2013 0:01:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.02853** | **.00026** | **.00230** | **.00631** | **-.00013** | **.00089** | **12.378** | **.00002** |
| Stddev | .00006 | .00059 | .00056 | .00066 | .00009 | .00002 | .00246 | .097 | .00016 |
| %RSD | 6.6356 | 2.0589 | 217.51 | 28.608 | 1.4578 | 11.535 | 275.55 | .78108 | 848.38 |
| #1 | .00092 | .02894 | .00065 | .00276 | .00637 | -.00014 | .00263 | 12.446 | -.00009 |
| #2 | .00101 | .02811 | -.00014 | .00183 | .00624 | -.00012 | -.00085 | 12.309 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **.00016** | **.00042** | **.80083** | **.43937** | **-.00417** | **5.6065** | **.23411** | **.00163** |
| Stddev | .00047 | .00020 | .00016 | .00003 | .01218 | .00095 | .0158 | .00049 | .00043 |
| %RSD | 40.064 | 124.92 | 39.107 | .00316 | 2.7725 | 22.741 | .28176 | .20867 | 26.373 |
| #1 | .00150 | .00002 | .00030 | .80085 | .43075 | -.00350 | 5.5953 | .23376 | .00194 |
| #2 | .00084 | .00031 | .00054 | .80081 | .44798 | -.00484 | 5.6177 | .23446 | .00133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.66628** | **.00096** | **.07339** | **.00072** | **.04452** | **.00332** | **.00398** | **1.8392** | **-.00089** |
| Stddev | .02288 | .00012 | .00182 | .00034 | .00414 | .00097 | .00294 | .0001 | .00022 |
| %RSD | 3.4338 | 12.464 | 2.4786 | 47.433 | 9.2998 | 29.157 | 73.952 | .00758 | 24.939 |
| #1 | .68246 | .00105 | .07467 | .00048 | .04159 | .00401 | .00606 | 1.8393 | -.00105 |
| #2 | .65011 | .00088 | .07210 | .00096 | .04745 | .00264 | .00190 | 1.8391 | -.00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01172** | **.00037** | **.00060** | **-.00062** | **.04807** | **.00069** | **.00713** | **.00024** |
| Stddev | .00014 | .00128 | .00052 | .00050 | .05899 | .00061 | .00009 | .00045 |
| %RSD | 1.2256 | 346.56 | 86.380 | 80.364 | 122.71 | 89.068 | 1.2720 | 189.30 |
| #1 | .01182 | -.00054 | .00023 | -.00027 | .00636 | .00112 | .00706 | .00055 |
| #2 | .01162 | .00127 | .00096 | -.00097 | .08979 | .00025 | .00719 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5358.2** | **67392.** | **3093.6** |
| Stddev | .8 | 108. | 8.2 |
| %RSD | .01504 | .15974 | .26427 |
| #1 | 5358.8 | 67316. | 3087.8 |
| #2 | 5357.7 | 67468. | 3099.4 |

Sample Name: 280-41903-A-1-C MS  Acquired: 5/18/2013 0:03:48  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05501** | **1.9854** | **1.0358** | **1.0818** | **2.2235** | **.04597** | **2.1166** | **107.96** | **.10664** |
| Stddev | .00032 | .0043 | .0049 | .0015 | .0017 | .00015 | .0062 | .00 | .00050 |
| %RSD | .58317 | .21535 | .47151 | .13985 | .07687 | .33453 | .29262 | .00040 | .46613 |
| #1 | .05524 | 1.9884 | 1.0393 | 1.0829 | 2.2223 | .04586 | 2.1210 | 107.96 | .10700 |
| #2 | .05478 | 1.9824 | 1.0324 | 1.0807 | 2.2247 | .04608 | 2.1122 | 107.96 | .10629 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51846** | **.20457** | **.25845** | **4.7008** | **62.948** | **1.2067** | **79.685** | **1.7077** | **1.0110** |
| Stddev | .00173 | .00065 | .00118 | .0036 | .000 | .0008 | 1.057 | .0217 | .0034 |
| %RSD | .33447 | .31944 | .45613 | .07583 | .00015 | .06904 | 1.3263 | 1.2706 | .33301 |
| #1 | .51969 | .20503 | .25928 | 4.6983 | 62.948 | 1.2061 | 80.433 | 1.7230 | 1.0133 |
| #2 | .51724 | .20411 | .25761 | 4.7034 | 62.948 | 1.2073 | 78.938 | 1.6923 | 1.0086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **67.901** | **.50619** | **11.100** | **.50968** | **.49427** | **.52803** | **2.1287** | **18.527** | **1.9943** |
| Stddev | .577 | .00160 | .018 | .00018 | .00099 | .00358 | .0091 | .111 | .0169 |
| %RSD | .84941 | .31681 | .15843 | .03545 | .19954 | .67810 | .42836 | .59951 | .84867 |
| #1 | 67.493 | .50733 | 11.113 | .50981 | .49357 | .53056 | 2.1352 | 18.448 | 2.0063 |
| #2 | 68.309 | .50506 | 11.088 | .50955 | .49497 | .52550 | 2.1223 | 18.605 | 1.9823 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1369** | **1.0737** | **1.0221** | **2.0005** | **2.1288** | **.51161** | **.51544** | **.46898** |
| Stddev | .0016 | .0151 | .0126 | .0184 | .0001 | .00706 | .00801 | .00224 |
| %RSD | .14247 | 1.4029 | 1.2367 | .91897 | .00691 | 1.3794 | 1.5547 | .47670 |
| #1 | 1.1357 | 1.0843 | 1.0310 | 2.0135 | 2.1289 | .51660 | .52111 | .46740 |
| #2 | 1.1380 | 1.0630 | 1.0131 | 1.9875 | 2.1287 | .50662 | .50978 | .47056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5172.5** | **65368.** | **3067.0** |
| Stddev | 11.5 | 552. | 1.5 |
| %RSD | .22306 | .84479 | .04968 |
| #1 | 5164.4 | 64977. | 3065.9 |
| #2 | 5180.7 | 65758. | 3068.0 |

Sample Name: 280-41903-A-1-D MSD  Acquired: 5/18/2013 0:06:02  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05427** | **1.9383** | **1.0076** | **1.0617** | **2.1831** | **.04520** | **2.0749** | **105.44** | **.10426** |
| Stddev | .00099 | .0023 | .0019 | .0029 | .0075 | .00003 | .0023 | .62 | .00078 |
| %RSD | 1.8277 | .11683 | .18508 | .27249 | .34248 | .06245 | .11191 | .58964 | .74641 |
| #1 | .05497 | 1.9367 | 1.0089 | 1.0597 | 2.1884 | .04522 | 2.0732 | 105.88 | .10371 |
| #2 | .05357 | 1.9399 | 1.0063 | 1.0638 | 2.1778 | .04518 | 2.0765 | 105.00 | .10481 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50517** | **.19916** | **.25168** | **4.5574** | **62.130** | **1.1874** | **77.938** | **1.6637** | **.98652** |
| Stddev | .00136 | .00067 | .00014 | .0345 | .339 | .0098 | .107 | .0012 | .00502 |
| %RSD | .26852 | .33505 | .05608 | .75716 | .54584 | .82798 | .13710 | .07148 | .50861 |
| #1 | .50421 | .19868 | .25158 | 4.5818 | 62.370 | 1.1944 | 78.014 | 1.6646 | .98297 |
| #2 | .50613 | .19963 | .25178 | 4.5330 | 61.890 | 1.1805 | 77.863 | 1.6629 | .99007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **66.777** | **.49298** | **10.878** | **.50166** | **.48428** | **.51572** | **2.0733** | **18.280** | **1.9391** |
| Stddev | .117 | .00263 | .018 | .00327 | .00126 | .00435 | .0178 | .126 | .0171 |
| %RSD | .17575 | .53264 | .16865 | .65107 | .25962 | .84272 | .85760 | .68896 | .88304 |
| #1 | 66.694 | .49113 | 10.865 | .49935 | .48339 | .51265 | 2.0608 | 18.369 | 1.9270 |
| #2 | 66.860 | .49484 | 10.891 | .50397 | .48517 | .51880 | 2.0859 | 18.190 | 1.9512 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1174** | **1.0505** | **1.0049** | **1.9594** | **2.1071** | **.50125** | **.50734** | **.46034** |
| Stddev | .0026 | .0035 | .0013 | .0150 | .0470 | .00019 | .00248 | .00331 |
| %RSD | .23475 | .33126 | .13298 | .76830 | 2.2312 | .03716 | .48922 | .71868 |
| #1 | 1.1192 | 1.0480 | 1.0058 | 1.9488 | 2.1403 | .50138 | .50909 | .46268 |
| #2 | 1.1155 | 1.0530 | 1.0039 | 1.9701 | 2.0739 | .50112 | .50558 | .45800 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5192.7** | **65498.** | **3074.0** |
| Stddev | 25.5 | 19. | 16.6 |
| %RSD | .49096 | .02920 | .54153 |
| #1 | 5210.8 | 65485. | 3062.3 |
| #2 | 5174.7 | 65512. | 3085.8 |

Sample Name: pds 280-41903-A-1-B  Acquired: 5/18/2013 0:08:15  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05227** | **.98226** | **.19624** | **.11969** | **.13460** | **.04386** | **-.00253** | **77.761** | **.05094** |
| Stddev | .00039 | .00392 | .00124 | .00067 | .00054 | .00009 | .00159 | .029 | .00020 |
| %RSD | .73991 | .39859 | .63019 | .55997 | .39969 | .20779 | 63.001 | .03717 | .38852 |
| #1 | .05200 | .98503 | .19711 | .12017 | .13498 | .04392 | -.00140 | 77.781 | .05108 |
| #2 | .05255 | .97949 | .19536 | .11922 | .13422 | .04380 | -.00365 | 77.740 | .05080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05446** | **.04963** | **.05249** | **4.5145** | **25.642** | **.11871** | **47.388** | **1.2100** | **.05519** |
| Stddev | .00031 | .00029 | .00008 | .0024 | .016 | .00038 | .164 | .0031 | .00009 |
| %RSD | .56197 | .57686 | .15705 | .05289 | .06195 | .31937 | .34629 | .25393 | .16373 |
| #1 | .05468 | .04984 | .05243 | 4.5129 | 25.631 | .11844 | 47.504 | 1.2121 | .05513 |
| #2 | .05425 | .04943 | .05255 | 4.5162 | 25.653 | .11898 | 47.272 | 1.2078 | .05525 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.323** | **.05196** | **2.4049** | **.10068** | **.48102** | **.10768** | **.20560** | **13.698** | **.09784** |
| Stddev | .397 | .00055 | .0149 | .00090 | .00375 | .00102 | .00350 | .062 | .00109 |
| %RSD | 1.4024 | 1.0535 | .62015 | .88926 | .77968 | .94339 | 1.7033 | .45521 | 1.1173 |
| #1 | 28.042 | .05235 | 2.4154 | .10132 | .48368 | .10840 | .20313 | 13.742 | .09707 |
| #2 | 28.604 | .05158 | 2.3943 | .10005 | .47837 | .10696 | .20808 | 13.654 | .09861 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11017** | **.20958** | **.05145** | **.19468** | **.52798** | **.05032** | **.21375** | **.04542** |
| Stddev | .00047 | .00165 | .00015 | .00068 | .02446 | .00017 | .00046 | .00325 |
| %RSD | .43091 | .78608 | .28787 | .34932 | 4.6324 | .34106 | .21508 | 7.1533 |
| #1 | .11051 | .20842 | .05155 | .19516 | .54527 | .05044 | .21407 | .04772 |
| #2 | .10984 | .21075 | .05134 | .19420 | .51068 | .05020 | .21342 | .04313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5261.1** | **66401.** | **3082.3** |
| Stddev | 5.3 | 132. | .1 |
| %RSD | .10142 | .19864 | .00408 |
| #1 | 5264.8 | 66308. | 3082.4 |
| #2 | 5257.3 | 66495. | 3082.3 |

Sample Name: 280-42003-B-2-A Acquired: 5/18/2013 0:10:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **2.3492** | **.00027** | **2.1451** | **.08386** | **.00033** | **.00068** | **12.447** | **.00005** |
| Stddev | .00061 | .0046 | .00195 | .0037 | .00013 | .00002 | .00266 | .028 | .00011 |
| %RSD | 73.388 | .19694 | 726.64 | .17499 | .15658 | 6.9117 | 389.42 | .22124 | 234.19 |
| #1 | .00040 | 2.3524 | .00165 | 2.1425 | .08377 | .00035 | .00256 | 12.427 | -.00003 |
| #2 | .00126 | 2.3459 | -.00111 | 2.1478 | .08396 | .00032 | -.00120 | 12.466 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **.00202** | **.00177** | **1.5599** | **3.5450** | **.03415** | **13.743** | **.06609** | **.00371** |
| Stddev | .00003 | .00005 | .00002 | .0046 | .0316 | .00228 | .030 | .00018 | .00008 |
| %RSD | 2.2035 | 2.6878 | 1.0768 | .29644 | .89004 | 6.6893 | .21843 | .27675 | 2.0905 |
| #1 | .00140 | .00206 | .00178 | 1.5566 | 3.5227 | .03253 | 13.764 | .06622 | .00365 |
| #2 | .00144 | .00198 | .00176 | 1.5631 | 3.5673 | .03576 | 13.722 | .06596 | .00376 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **341.42** | **.00295** | **.57066** | **.00410** | **30.371** | **.00222** | **.00234** | **8.3394** | **-.00141** |
| Stddev | 1.03 | .00025 | .00186 | .00156 | .039 | .00222 | .00525 | .0775 | .00065 |
| %RSD | .30307 | 8.5702 | .32566 | 38.022 | .12719 | 99.590 | 223.86 | .92952 | 46.265 |
| #1 | 340.69 | .00277 | .57197 | .00520 | 30.344 | .00379 | -.00137 | 8.2846 | -.00095 |
| #2 | 342.15 | .00313 | .56935 | .00300 | 30.399 | .00066 | .00605 | 8.3942 | -.00187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.71348** | **.00310** | **.02143** | **-.00091** | **.03749** | **.00236** | **.01118** | **.00651** |
| Stddev | .00152 | .00148 | .00019 | .00066 | .00783 | .00088 | .00018 | .00298 |
| %RSD | .21346 | 47.658 | .86579 | 72.575 | 20.876 | 37.285 | 1.6057 | 45.743 |
| #1 | .71241 | .00205 | .02129 | -.00044 | .03196 | .00174 | .01106 | .00862 |
| #2 | .71456 | .00414 | .02156 | -.00137 | .04303 | .00299 | .01131 | .00441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5263.3** | **66033.** | **3058.2** |
| Stddev | .3 | 410. | .6 |
| %RSD | .00579 | .62149 | .02097 |
| #1 | 5263.1 | 65743. | 3058.7 |
| #2 | 5263.5 | 66324. | 3057.8 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 0:13:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **45.634** | **-.00218** | **.00500** | **.00043** | **-.00009** | **1.0103** | **-.00505** | **-.00060** | **.00192** | **-.00004** | **-.00065** |
| Stddev | .00001 | .125 | .00137 | .00048 | .00005 | .00005 | .0009 | .00035 | .00001 | .00021 | .00005 | .00076 |
| %RSD | 2.6687 | .27474 | 62.582 | 9.6111 | 11.981 | 51.114 | .08770 | 6.9089 | 1.5360 | 10.997 | 136.44 | 115.61 |
| #1 | .00038 | 45.546 | -.00122 | .00534 | .00047 | -.00006 | 1.0109 | -.00530 | -.00061 | .00177 | -.00007 | -.00012 |
| #2 | .00037 | 45.723 | -.00315 | .00466 | .00040 | -.00012 | 1.0096 | -.00481 | -.00059 | .00207 | -.00000 | -.00119 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **37.677** | **.22540** | **-.00240** | **.01411** | **.00002** | **-.00145** | F **296.95** | **.00142** | **.00976** | **-.00163** | **5.0544** | **.00149** |
| Stddev | .018 | .04441 | .00233 | .00093 | .00009 | .00020 | 1.04 | .00015 | .00051 | .00072 | .0244 | .00074 |
| %RSD | .04723 | 19.702 | 96.901 | 6.5807 | 546.20 | 14.084 | .34983 | 10.305 | 5.2552 | 44.059 | .48356 | 49.580 |
| #1 | 37.664 | .25680 | -.00076 | .01477 | .00008 | -.00130 | 297.69 | .00132 | .01013 | -.00112 | 5.0371 | .00097 |
| #2 | 37.689 | .19400 | -.00405 | .01346 | -.00005 | -.00159 | 296.22 | .00152 | .00940 | -.00214 | 5.0717 | .00201 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00692** | **.01528** | **-.00071** | **.00037** | **5.1439** | **.00331** | **-.00226** | **10.091** | **.00004** | **.00270** | **-.05369** |
| Stddev | .00001 | .01911 | .00075 | .00025 | .0028 | .00003 | .00329 | .164 | .00101 | .00008 | .00152 |
| %RSD | .19090 | 125.06 | 105.44 | 67.331 | .05391 | .99311 | 145.61 | 1.6204 | 2499.4 | 3.1423 | 2.8368 |
| #1 | .00693 | .00177 | -.00124 | .00054 | 5.1458 | .00329 | -.00458 | 10.207 | .00076 | .00264 | -.05477 |
| #2 | .00692 | .02879 | -.00018 | .00019 | 5.1419 | .00334 | .00007 | 9.9754 | -.00068 | .00276 | -.05262 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5247.1** | **65896.** | **3079.9** |
| Stddev | 18.4 | 317. | 13.9 |
| %RSD | .35024 | .48092 | .45047 |
| #1 | 5260.1 | 65672. | 3070.1 |
| #2 | 5234.1 | 66120. | 3089.7 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 0:15:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50375** | **.49643** | **.98920** | **.51196** | **.52493** | F **.43407** | **.00240** | **4.5368** | **.49750** | **.50592** | **.48866** | **.48435** |
| Stddev | .00031 | .00040 | .00121 | .00039 | .00361 | .00459 | .00012 | .0355 | .00081 | .00504 | .00064 | .00197 |
| %RSD | .06251 | .08072 | .12219 | .07611 | .68777 | 1.0574 | 5.0704 | .78234 | .16212 | .99688 | .13142 | .40757 |
| #1 | .50397 | .49615 | .99005 | .51224 | .52748 | .43732 | .00231 | 4.5619 | .49693 | .50235 | .48820 | .48575 |
| #2 | .50353 | .49671 | .98834 | .51169 | .52237 | .43082 | .00248 | 4.5117 | .49807 | .50949 | .48911 | .48295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9481** | F **58.261** | F **1.1540** | **19.632** | **.49572** | **.48150** | **5.4830** | **.49931** | **1.0136** | **1.0011** | **-.06046** | **1.0038** |
| Stddev | .0179 | .291 | .0007 | .045 | .00134 | .00152 | .0619 | .00241 | .0048 | .0080 | .00106 | .0054 |
| %RSD | .92043 | .50019 | .05760 | .23029 | .27011 | .31477 | 1.1299 | .48353 | .47518 | .80329 | 1.7576 | .53664 |
| #1 | 1.9608 | 58.467 | 1.1545 | 19.664 | .49666 | .48043 | 5.5268 | .49760 | 1.0102 | .99538 | -.06121 | 1.0000 |
| #2 | 1.9354 | 58.055 | 1.1536 | 19.600 | .49477 | .48257 | 5.4392 | .50101 | 1.0170 | 1.0068 | -.05970 | 1.0076 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0162** | F **4.1931** | **.96675** | **.51817** | **.00171** | **.48870** | **.97480** | **.06248** | **.48503** | **.49393** | **.45524** |
| Stddev | .0035 | .0063 | .00449 | .00301 | .00029 | .00163 | .00534 | .01971 | .00004 | .00015 | .00511 |
| %RSD | .34775 | .15033 | .46414 | .58103 | 16.840 | .33454 | .54754 | 31.551 | .00906 | .02941 | 1.1235 |
| #1 | 1.0137 | 4.1976 | .96358 | .52030 | .00191 | .48986 | .97103 | .07642 | .48500 | .49403 | .45885 |
| #2 | 1.0187 | 4.1887 | .96993 | .51604 | .00151 | .48754 | .97857 | .04854 | .48506 | .49382 | .45162 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5363.1** | **67428.** | **3068.1** |
| Stddev | 9.8 | 133. | 26.4 |
| %RSD | .18325 | .19665 | .86016 |
| #1 | 5370.1 | 67335. | 3049.4 |
| #2 | 5356.2 | 67522. | 3086.7 |

Sample Name: CCB Acquired: 5/18/2013 0:17:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00152** | **.00121** | **.00128** | **.00014** | **-.00010** | **.00274** | **.00026** | **.00006** | **.00025** | **-.00007** |
| Stddev | .00103 | .00004 | .00192 | .00062 | .00084 | .00003 | .00352 | .00336 | .00006 | .00049 | .00010 |
| %RSD | 301.87 | 2.8406 | 158.63 | 48.539 | 610.49 | 29.585 | 128.37 | 1268.5 | 91.241 | 197.13 | 149.58 |
| #1 | .00107 | .00149 | .00257 | .00084 | -.00046 | -.00008 | .00025 | .00264 | .00002 | -.00010 | .00000 |
| #2 | -.00039 | .00155 | -.00015 | .00171 | .00074 | -.00012 | .00523 | -.00211 | .00011 | .00060 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | **.00117** | **.11396** | W **-.00429** | **.00063** | **.00009** | **.00040** | **-.07052** | **.00030** | **.00078** | **.00051** |
| Stddev | .00016 | .00223 | .02139 | .00047 | .00215 | .00009 | .00001 | .00990 | .00002 | .00028 | .00022 |
| %RSD | 30.571 | 191.05 | 18.768 | 11.064 | 341.64 | 107.38 | 2.3194 | 14.044 | 7.3580 | 36.105 | 43.934 |
| #1 | -.00040 | -.00041 | .12908 | -.00396 | .00215 | .00015 | .00041 | -.06352 | .00028 | .00058 | .00067 |
| #2 | -.00063 | .00274 | .09883 | -.00463 | -.00089 | .00002 | .00039 | -.07752 | .00031 | .00098 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06329** | W **.00330** | **.00184** | **.00056** | **-.00175** | **-.00011** | **-.00117** | **.00038** | **.00074** | F **.05497** | **-.00015** |
| Stddev | .00124 | .00168 | .00394 | .00713 | .00015 | .00004 | .00204 | .00004 | .00146 | .00543 | .00023 |
| %RSD | 1.9598 | 50.740 | 213.89 | 1279.2 | 8.4689 | 36.124 | 174.56 | 11.826 | 197.04 | 9.8713 | 153.54 |
| #1 | -.06417 | .00212 | .00463 | -.00448 | -.00185 | -.00014 | .00027 | .00041 | .00178 | .05880 | -.00031 |
| #2 | -.06241 | .00449 | -.00094 | .00560 | -.00164 | -.00008 | -.00261 | .00035 | -.00029 | .05113 | .00001 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .00314 | | | | | | | | .05000 | |
| Low Limit | | -.00314 | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00239** | **.00119** |
| Stddev | .00006 | .00080 |
| %RSD | 2.4390 | 67.313 |
| #1 | .00235 | .00175 |
| #2 | .00244 | .00062 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5423.5** | **67990.** | **3078.6** |
| Stddev | 11.5 | 197. | 29.1 |
| %RSD | .21283 | .29014 | .94502 |
| #1 | 5415.3 | 67851. | 3058.0 |
| #2 | 5431.7 | 68130. | 3099.1 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 0:20:07 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01045** | **.11083** | **.01357** | **.10036** | **.01130** | **.00086** | **.10133** | **.18984** | **.00512** | **.01055** | **.00982** |
| Stddev | .00097 | .00210 | .00076 | .00017 | .00051 | .00003 | .00102 | .00059 | .00005 | .00027 | .00047 |
| %RSD | 9.2553 | 1.8944 | 5.6287 | .17269 | 4.4795 | 3.7282 | 1.0079 | .31181 | .89434 | 2.5591 | 4.7579 |
| #1 | .01113 | .11232 | .01411 | .10048 | .01094 | .00084 | .10060 | .19026 | .00515 | .01074 | .00949 |
| #2 | .00976 | .10935 | .01303 | .10023 | .01166 | .00088 | .10205 | .18942 | .00509 | .01036 | .01015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01388** | W **.07823** | W **3.7139** | **.00936** | **.20770** | **.01025** | **.01930** | **1.1292** | **.04081** | **2.9216** | **.01014** |
| Stddev | .00001 | .00064 | .0159 | .00073 | .00367 | .00002 | .00064 | .0016 | .00025 | .0017 | .00016 |
| %RSD | .08093 | .82268 | .42733 | 7.7601 | 1.7646 | .19792 | 3.3397 | .13961 | .60458 | .05888 | 1.5311 |
| #1 | .01389 | .07869 | 3.7252 | .00884 | .20511 | .01024 | .01975 | 1.1281 | .04063 | 2.9228 | .01025 |
| #2 | .01387 | .07778 | 3.7027 | .00987 | .21029 | .01027 | .01884 | 1.1303 | .04098 | 2.9204 | .01003 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | | | | | | | | |
| Range | | -20.000% | 20.000% | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05907** | W **.01233** | **.01759** | **.41453** | **.09530** | **.01072** | **.01602** | **.01009** | **.01517** | F **.09939** | **.01031** |
| Stddev | .00382 | .00019 | .00193 | .01701 | .00038 | .00002 | .00464 | .00003 | .00065 | .03405 | .00004 |
| %RSD | 6.4596 | 1.5028 | 10.992 | 4.1036 | .39502 | .21531 | 28.936 | .32256 | 4.2827 | 34.256 | .37344 |
| #1 | -.05638 | .01246 | .01896 | .40250 | .09557 | .01074 | .01275 | .01007 | .01471 | .12346 | .01029 |
| #2 | -.06177 | .01220 | .01622 | .42656 | .09503 | .01070 | .01930 | .01012 | .01563 | .07531 | .01034 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02294** | **.01638** |
| Stddev | .00023 | .00093 |
| %RSD | .99656 | 5.6923 |
| #1 | .02310 | .01704 |
| #2 | .02278 | .01572 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5361.7** | **67389.** | **3038.4** |
| Stddev | 2.5 | 392. | 3.3 |
| %RSD | .04690 | .58198 | .10763 |
| #1 | 5363.5 | 67111. | 3036.1 |
| #2 | 5359.9 | 67666. | 3040.8 |

Sample Name: 280-42003-B-3-A Acquired: 5/18/2013 0:22:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **1.9437** | **.00093** | **2.1044** | **.07627** | **.00021** | **-.00126** | **12.117** | **.00024** |
| Stddev | .00034 | .0010 | .00030 | .0005 | .00052 | .00007 | .00229 | .018 | .00018 |
| %RSD | 52.706 | .05271 | 31.721 | .02484 | .67901 | 32.206 | 180.79 | .14970 | 75.971 |
| #1 | .00040 | 1.9445 | .00073 | 2.1048 | .07663 | .00026 | .00035 | 12.104 | .00011 |
| #2 | .00089 | 1.9430 | .00114 | 2.1040 | .07590 | .00016 | -.00288 | 12.130 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **.00173** | **.00105** | **1.3345** | **3.3362** | **.03059** | **13.254** | **.06334** | **.00357** |
| Stddev | .00024 | .00001 | .00001 | .0053 | .0352 | .00124 | .044 | .00012 | .00011 |
| %RSD | 24.553 | .55643 | .96101 | .40025 | 1.0553 | 4.0653 | .33287 | .18249 | 2.9621 |
| #1 | .00115 | .00174 | .00104 | 1.3307 | 3.3113 | .03147 | 13.222 | .06326 | .00350 |
| #2 | .00081 | .00172 | .00106 | 1.3383 | 3.3611 | .02971 | 13.285 | .06342 | .00365 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **335.92** | **.00262** | **.53124** | **.00379** | **29.817** | **.00315** | **-.00066** | **7.5186** | **-.00041** |
| Stddev | .65 | .00010 | .00477 | .00014 | .025 | .00045 | .00677 | .0215 | .00043 |
| %RSD | .19376 | 3.6682 | .89751 | 3.6471 | .08406 | 14.178 | 1033.7 | .28601 | 102.97 |
| #1 | 336.38 | .00269 | .53461 | .00389 | 29.835 | .00283 | .00413 | 7.5034 | -.00011 |
| #2 | 335.46 | .00256 | .52787 | .00369 | 29.800 | .00346 | -.00544 | 7.5338 | -.00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.69176** | **.00324** | **.01729** | **.00067** | **.02360** | **.00204** | **.01078** | **.00307** |
| Stddev | .00027 | .00162 | .00019 | .00033 | .02806 | .00003 | .00017 | .00051 |
| %RSD | .03883 | 49.910 | 1.0991 | 48.461 | 118.89 | 1.2296 | 1.6171 | 16.543 |
| #1 | .69157 | .00210 | .01716 | .00044 | .04344 | .00206 | .01091 | .00343 |
| #2 | .69195 | .00438 | .01743 | .00090 | .00376 | .00203 | .01066 | .00271 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5292.6** | **66719.** | **3064.7** |
| Stddev | 14.6 | 450. | 1.6 |
| %RSD | .27500 | .67421 | .05245 |
| #1 | 5282.3 | 67037. | 3065.8 |
| #2 | 5302.9 | 66401. | 3063.6 |

Sample Name: 280-42003-B-4-B Acquired: 5/18/2013 0:24:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **8.3458** | **.00295** | **2.8249** | **.05413** | **.00055** | **-.00242** | **15.937** | **.00015** |
| Stddev | .00033 | .0478 | .00081 | .0025 | .00024 | .00007 | .00034 | .024 | .00011 |
| %RSD | 725.36 | .57276 | 27.577 | .08867 | .43892 | 12.975 | 13.912 | .15088 | 77.832 |
| #1 | .00028 | 8.3796 | .00238 | 2.8231 | .05396 | .00060 | -.00266 | 15.954 | .00023 |
| #2 | -.00019 | 8.3120 | .00353 | 2.8267 | .05430 | .00050 | -.00218 | 15.920 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00690** | **.01566** | **.00821** | **11.853** | **9.9754** | **.05857** | **18.057** | **.30370** | **.01164** |
| Stddev | .00021 | .00006 | .00051 | .008 | .0631 | .00266 | .049 | .00065 | .00009 |
| %RSD | 3.0155 | .38259 | 6.1833 | .06429 | .63250 | 4.5420 | .26932 | .21367 | .77759 |
| #1 | .00675 | .01562 | .00785 | 11.847 | 9.9308 | .05669 | 18.092 | .30415 | .01170 |
| #2 | .00705 | .01570 | .00857 | 11.858 | 10.020 | .06045 | 18.023 | .30324 | .01157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **403.27** | **.01562** | **.75692** | **.00608** | **32.505** | **.00347** | **.00112** | **15.578** | **.00064** |
| Stddev | 1.10 | .00006 | .00029 | .00119 | .031 | .00354 | .00218 | .068 | .00062 |
| %RSD | .27184 | .40370 | .03788 | 19.637 | .09510 | 102.05 | 194.13 | .43647 | 96.878 |
| #1 | 404.05 | .01566 | .75672 | .00693 | 32.527 | .00097 | .00266 | 15.530 | .00020 |
| #2 | 402.50 | .01557 | .75712 | .00524 | 32.484 | .00597 | -.00042 | 15.626 | .00108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0626** | **.00831** | **.08375** | **.00060** | **.01424** | **.01619** | **.02821** | **.00417** |
| Stddev | .0013 | .00211 | .00097 | .00131 | .01154 | .00037 | .00015 | .00040 |
| %RSD | .11991 | 25.365 | 1.1557 | 219.06 | 80.999 | 2.2913 | .51646 | 9.5711 |
| #1 | 1.0635 | .00682 | .08307 | .00152 | .00609 | .01645 | .02831 | .00446 |
| #2 | 1.0617 | .00981 | .08444 | -.00033 | .02240 | .01593 | .02811 | .00389 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5318.5** | **66549.** | **3113.4** |
| Stddev | 3.8 | 212. | 15.3 |
| %RSD | .07108 | .31845 | .49070 |
| #1 | 5321.2 | 66399. | 3102.6 |
| #2 | 5315.8 | 66699. | 3124.2 |

Sample Name: 280-42003-B-5-B Acquired: 5/18/2013 0:27:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **.41258** | **-.00126** | **.06942** | **.11755** | **-.00001** | **.00061** | **51.323** | **.00025** |
| Stddev | .00001 | .00266 | .00287 | .00028 | .00016 | .00007 | .00335 | .280 | .00002 |
| %RSD | 1.3478 | .64592 | 228.47 | .39879 | .13425 | 519.79 | 549.27 | .54609 | 7.0764 |
| #1 | .00089 | .41069 | -.00329 | .06962 | .11744 | -.00006 | .00298 | 51.125 | .00026 |
| #2 | .00091 | .41446 | .00077 | .06923 | .11766 | .00003 | -.00176 | 51.521 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00069** | **.00093** | **.54362** | **14.483** | **-.00233** | **14.478** | **.08073** | **.00139** |
| Stddev | .00001 | .00019 | .00006 | .01126 | .111 | .00224 | .029 | .00007 | .00035 |
| %RSD | 2.0357 | 27.645 | 5.9783 | 2.0709 | .76925 | 96.193 | .19903 | .09014 | 25.318 |
| #1 | .00033 | .00055 | .00097 | .53566 | 14.405 | -.00392 | 14.499 | .08079 | .00114 |
| #2 | .00034 | .00082 | .00089 | .55158 | 14.562 | -.00075 | 14.458 | .08068 | .00164 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.261** | **.00131** | **.37109** | **.00182** | **30.506** | **.00103** | **.00235** | **1.1936** | **-.00099** |
| Stddev | .099 | .00013 | .00108 | .00085 | .026 | .00326 | .00326 | .0129 | .00062 |
| %RSD | .69510 | 9.8729 | .28993 | 46.709 | .08655 | 317.72 | 138.73 | 1.0765 | 62.094 |
| #1 | 14.191 | .00122 | .37185 | .00122 | 30.525 | -.00128 | .00466 | 1.2027 | -.00056 |
| #2 | 14.331 | .00141 | .37033 | .00243 | 30.487 | .00333 | .00004 | 1.1845 | -.00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27259** | **.00246** | **.00612** | **.00010** | **-.00320** | **.00171** | **.01082** | **.00054** |
| Stddev | .00213 | .00059 | .00015 | .00027 | .04653 | .00044 | .00036 | .00071 |
| %RSD | .78090 | 24.147 | 2.4830 | 282.17 | 1452.3 | 25.644 | 3.3639 | 130.44 |
| #1 | .27108 | .00288 | .00622 | -.00010 | -.03611 | .00140 | .01108 | .00104 |
| #2 | .27409 | .00204 | .00601 | .00029 | .02970 | .00202 | .01056 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5353.8** | **67225.** | **3111.3** |
| Stddev | 7.1 | 9. | 22.2 |
| %RSD | .13232 | .01312 | .71469 |
| #1 | 5348.8 | 67231. | 3127.1 |
| #2 | 5358.8 | 67219. | 3095.6 |

Sample Name: 280-42003-B-6-A Acquired: 5/18/2013 0:29:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.01651** | **.00144** | **.00533** | **.00053** | **-.00009** | **.00097** | **.11884** | **.00032** |
| Stddev | .00020 | .00071 | .00202 | .00062 | .00025 | .00001 | .00227 | .00050 | .00001 |
| %RSD | 29.035 | 4.3014 | 139.90 | 11.619 | 47.068 | 13.853 | 233.28 | .41762 | 3.2323 |
| #1 | .00083 | .01702 | .00287 | .00577 | .00070 | -.00010 | -.00063 | .11849 | .00033 |
| #2 | .00055 | .01601 | .00002 | .00489 | .00035 | -.00008 | .00257 | .11920 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00009** | **-.00007** | **.02203** | **.08432** | **-.00426** | **.03476** | **.00129** | **.00057** |
| Stddev | .00037 | .00001 | .00009 | .00018 | .02209 | .00029 | .00191 | .00003 | .00001 |
| %RSD | 1351.3 | 7.7733 | 117.32 | .80927 | 26.198 | 6.7325 | 5.4843 | 2.0606 | 1.6488 |
| #1 | -.00029 | .00009 | -.00001 | .02191 | .06870 | -.00406 | .03611 | .00130 | .00057 |
| #2 | .00024 | .00008 | -.00013 | .02216 | .09994 | -.00447 | .03341 | .00127 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20913** | **.00076** | **.25160** | **-.00042** | **-.03186** | **.00274** | **.00298** | **.05739** | **-.00050** |
| Stddev | .01507 | .00010 | .00235 | .00053 | .00038 | .00176 | .00470 | .01585 | .00044 |
| %RSD | 7.2074 | 13.425 | .93267 | 126.45 | 1.2039 | 64.069 | 157.80 | 27.612 | 87.851 |
| #1 | .21979 | .00084 | .24994 | -.00004 | -.03159 | .00150 | .00630 | .04619 | -.00081 |
| #2 | .19847 | .00069 | .25326 | -.00080 | -.03213 | .00398 | -.00034 | .06860 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00019** | **.00026** | **-.00073** | **.02779** | **.00079** | **.00414** | **.00234** |
| Stddev | .00006 | .00078 | .00009 | .00176 | .02327 | .00004 | .00011 | .00125 |
| %RSD | 10.731 | 398.87 | 35.472 | 240.14 | 83.721 | 4.7184 | 2.6499 | 53.173 |
| #1 | .00061 | -.00035 | .00032 | .00051 | .04424 | .00082 | .00422 | .00322 |
| #2 | .00052 | .00074 | .00019 | -.00197 | .01134 | .00077 | .00406 | .00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5472.3** | **68647.** | **3129.8** |
| Stddev | 17.7 | 99. | 2.6 |
| %RSD | .32407 | .14483 | .08190 |
| #1 | 5459.7 | 68717. | 3127.9 |
| #2 | 5484.8 | 68577. | 3131.6 |

Sample Name: 280-42003-B-7-B Acquired: 5/18/2013 0:32:17 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.03873** | **-.00128** | **.06475** | **.08769** | **-.00011** | **-.00122** | **169.78** | **.00010** |
| Stddev | .00017 | .00003 | .00142 | .00016 | .00058 | .00011 | .00019 | .85 | .00012 |
| %RSD | 19.908 | .08623 | 110.63 | .24102 | .66243 | 94.927 | 15.684 | .50076 | 123.54 |
| #1 | .00074 | .03871 | -.00028 | .06464 | .08810 | -.00019 | -.00135 | 170.38 | .00018 |
| #2 | .00098 | .03875 | -.00229 | .06486 | .08728 | -.00004 | -.00108 | 169.18 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00035** | **.00149** | **.18110** | **7.0929** | **-.00293** | **42.437** | **.10767** | **.00240** |
| Stddev | .00016 | .00002 | .00024 | .00019 | .0373 | .00112 | .038 | .00018 | .00024 |
| %RSD | 26.142 | 4.3394 | 16.305 | .10392 | .52553 | 38.396 | .08842 | .16337 | 9.9433 |
| #1 | .00071 | .00036 | .00132 | .18097 | 7.1193 | -.00372 | 42.464 | .10780 | .00257 |
| #2 | .00049 | .00034 | .00166 | .18124 | 7.0666 | -.00213 | 42.411 | .10755 | .00223 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **32.743** | **.00177** | **.30617** | **.00095** | **170.14** | **.00275** | **.00066** | **1.2316** | **-.00060** |
| Stddev | .032 | .00014 | .00247 | .00169 | .01 | .00075 | .00351 | .0108 | .00028 |
| %RSD | .09782 | 8.1438 | .80749 | 176.79 | .00860 | 27.412 | 530.62 | .88026 | 47.000 |
| #1 | 32.720 | .00167 | .30792 | -.00024 | 170.13 | .00222 | .00315 | 1.2392 | -.00080 |
| #2 | 32.766 | .00187 | .30442 | .00215 | 170.15 | .00328 | -.00182 | 1.2239 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.83719** | **.00169** | **.00137** | **.00041** | **-.00425** | **.00154** | **.01055** | **.00252** |
| Stddev | .00394 | .00235 | .00008 | .00091 | .01715 | .00037 | .00014 | .00060 |
| %RSD | .47071 | 139.47 | 5.9595 | 220.94 | 403.53 | 24.183 | 1.3518 | 23.805 |
| #1 | .83998 | .00002 | .00131 | .00105 | -.01638 | .00128 | .01065 | .00295 |
| #2 | .83440 | .00335 | .00142 | -.00023 | .00788 | .00180 | .01045 | .00210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5308.2** | **67898.** | **3149.4** |
| Stddev | 11.4 | 212. | 11.9 |
| %RSD | .21495 | .31214 | .37765 |
| #1 | 5316.3 | 67748. | 3141.0 |
| #2 | 5300.2 | 68048. | 3157.8 |

Sample Name: 280-42003-B-8-B Acquired: 5/18/2013 0:34:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **1.8369** | **.00289** | **3.4622** | **.04560** | **.00000** | **-.00006** | **13.567** | **.00003** |
| Stddev | .00075 | .0003 | .00120 | .0031 | .00001 | .00002 | .00203 | .120 | .00002 |
| %RSD | 557.87 | .01451 | 41.435 | .08844 | .01525 | 13424. | 3258.6 | .88345 | 72.796 |
| #1 | -.00066 | 1.8371 | .00374 | 3.4644 | .04560 | .00001 | .00137 | 13.482 | .00002 |
| #2 | .00039 | 1.8367 | .00205 | 3.4600 | .04561 | -.00001 | -.00150 | 13.652 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00203** | **.00428** | **.00104** | **2.5116** | **5.9646** | **.03960** | **12.759** | **.08205** | **.00419** |
| Stddev | .00006 | .00017 | .00002 | .0077 | .0254 | .00055 | .009 | .00013 | .00012 |
| %RSD | 3.0946 | 3.9930 | 2.3866 | .30859 | .42654 | 1.3885 | .07026 | .16453 | 2.8700 |
| #1 | .00199 | .00416 | .00102 | 2.5171 | 5.9466 | .03998 | 12.765 | .08214 | .00411 |
| #2 | .00207 | .00440 | .00106 | 2.5061 | 5.9826 | .03921 | 12.752 | .08195 | .00428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **418.55** | **.00484** | **.45750** | **.00167** | **32.575** | **.00274** | **.00575** | **6.5753** | **.00038** |
| Stddev | 1.51 | .00016 | .00147 | .00101 | .038 | .00024 | .00335 | .0034 | .00073 |
| %RSD | .36096 | 3.2555 | .32089 | 60.508 | .11761 | 8.7785 | 58.220 | .05112 | 190.84 |
| #1 | 417.48 | .00495 | .45646 | .00096 | 32.602 | .00257 | .00811 | 6.5730 | -.00013 |
| #2 | 419.62 | .00473 | .45853 | .00239 | 32.548 | .00290 | .00338 | 6.5777 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0301** | **.00336** | **.02919** | **.00111** | **.00901** | **.00535** | **.01230** | **.00261** |
| Stddev | .0092 | .00043 | .00038 | .00253 | .01716 | .00059 | .00039 | .00089 |
| %RSD | .89826 | 12.875 | 1.3012 | 227.15 | 190.41 | 10.997 | 3.1989 | 33.921 |
| #1 | 1.0236 | .00305 | .02892 | -.00068 | -.00312 | .00493 | .01258 | .00198 |
| #2 | 1.0367 | .00367 | .02946 | .00290 | .02114 | .00576 | .01203 | .00324 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5304.4** | **66948.** | **3101.0** |
| Stddev | 5.8 | 86. | 23.6 |
| %RSD | .10994 | .12775 | .76240 |
| #1 | 5308.6 | 67008. | 3117.8 |
| #2 | 5300.3 | 66887. | 3084.3 |

Sample Name: 280-42003-B-9-B Acquired: 5/18/2013 0:37:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **5.7195** | **.00364** | **3.6030** | **.05236** | **.00023** | **-.00279** | **20.699** | **.00004** |
| Stddev | .00002 | .0238 | .00085 | .0047 | .00008 | .00015 | .00196 | .118 | .00005 |
| %RSD | 7.5886 | .41622 | 23.345 | .13192 | .14654 | 64.206 | 70.081 | .57191 | 126.95 |
| #1 | .00033 | 5.7363 | .00424 | 3.5996 | .05241 | .00034 | -.00418 | 20.782 | .00000 |
| #2 | .00030 | 5.7026 | .00304 | 3.6063 | .05231 | .00013 | -.00141 | 20.615 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00416** | **.01556** | **.00535** | **7.1516** | **7.8270** | **.05193** | **12.992** | **.17300** | **.01923** |
| Stddev | .00014 | .00007 | .00031 | .0052 | .0800 | .00139 | .007 | .00013 | .00034 |
| %RSD | 3.4805 | .46306 | 5.7977 | .07210 | 1.0222 | 2.6846 | .05116 | .07786 | 1.7719 |
| #1 | .00426 | .01551 | .00557 | 7.1479 | 7.7704 | .05095 | 12.997 | .17291 | .01947 |
| #2 | .00406 | .01561 | .00513 | 7.1552 | 7.8836 | .05292 | 12.987 | .17310 | .01899 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **449.63** | **.01134** | **.57366** | **.00294** | **28.124** | **.00249** | **.00044** | **12.141** | **.00263** |
| Stddev | 3.68 | .00024 | .00176 | .00005 | .039 | .00029 | .00105 | .000 | .00050 |
| %RSD | .81782 | 2.1538 | .30606 | 1.7634 | .13868 | 11.551 | 236.78 | .00122 | 19.162 |
| #1 | 452.23 | .01151 | .57490 | .00290 | 28.096 | .00269 | .00118 | 12.141 | .00299 |
| #2 | 447.03 | .01117 | .57241 | .00298 | 28.152 | .00228 | -.00030 | 12.141 | .00228 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95637** | **.00576** | **.06348** | **.00049** | **.02706** | **.01077** | **.02335** | **.00717** |
| Stddev | .00547 | .00183 | .00049 | .00100 | .01837 | .00019 | .00021 | .00224 |
| %RSD | .57170 | 31.730 | .77064 | 203.93 | 67.902 | 1.7618 | .88703 | 31.237 |
| #1 | .96023 | .00447 | .06313 | -.00022 | .01407 | .01063 | .02320 | .00559 |
| #2 | .95250 | .00706 | .06382 | .00119 | .04005 | .01090 | .02350 | .00875 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5335.8** | **66700.** | **3102.9** |
| Stddev | 4.8 | 230. | 21.3 |
| %RSD | .09087 | .34502 | .68648 |
| #1 | 5339.2 | 66537. | 3087.8 |
| #2 | 5332.3 | 66862. | 3117.9 |

Sample Name: 280-42003-B-10-B Acquired: 5/18/2013 0:39:41 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **1.3056** | **.00269** | **2.3324** | **.05388** | **-.00002** | **.00060** | **13.819** | **.00005** |
| Stddev | .00053 | .0024 | .00161 | .0005 | .00050 | .00001 | .00003 | .019 | .00008 |
| %RSD | 114.72 | .18487 | 59.819 | .02315 | .92578 | 38.209 | 4.6856 | .13508 | 144.69 |
| #1 | .00083 | 1.3039 | .00383 | 2.3320 | .05424 | -.00001 | .00062 | 13.806 | .00011 |
| #2 | .00009 | 1.3073 | .00155 | 2.3328 | .05353 | -.00002 | .00058 | 13.832 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00276** | **.00275** | **.00059** | **1.7913** | **5.1964** | **.03456** | **13.256** | **.07557** | **.00328** |
| Stddev | .00050 | .00004 | .00010 | .0029 | .0508 | .00053 | .018 | .00022 | .00012 |
| %RSD | 18.108 | 1.5879 | 16.464 | .16090 | .97689 | 1.5236 | .13320 | .28571 | 3.6550 |
| #1 | .00311 | .00278 | .00052 | 1.7893 | 5.2323 | .03419 | 13.269 | .07573 | .00336 |
| #2 | .00240 | .00272 | .00066 | 1.7933 | 5.1605 | .03493 | 13.244 | .07542 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **338.35** | **.00553** | **.38180** | **.00220** | **16.574** | **.00268** | **.00268** | **6.0684** | **.00059** |
| Stddev | .18 | .00024 | .00025 | .00146 | .005 | .00118 | .00153 | .0172 | .00055 |
| %RSD | .05459 | 4.4147 | .06498 | 66.317 | .03064 | 44.033 | 57.063 | .28336 | 92.173 |
| #1 | 338.22 | .00535 | .38162 | .00117 | 16.570 | .00352 | .00160 | 6.0562 | .00021 |
| #2 | 338.48 | .00570 | .38197 | .00323 | 16.577 | .00185 | .00376 | 6.0806 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74337** | **.00155** | **.02015** | **.00088** | **.04893** | **.00384** | **.00867** | **.00672** |
| Stddev | .00257 | .00366 | .00019 | .00025 | .04886 | .00021 | .00018 | .00018 |
| %RSD | .34622 | 235.84 | .91918 | 28.128 | 99.843 | 5.5167 | 2.0548 | 2.7408 |
| #1 | .74155 | .00415 | .02002 | .00071 | .01439 | .00369 | .00854 | .00685 |
| #2 | .74519 | -.00104 | .02028 | .00106 | .08348 | .00399 | .00879 | .00659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5276.2** | **66524.** | **3089.3** |
| Stddev | 16.7 | 168. | 9.8 |
| %RSD | .31704 | .25253 | .31682 |
| #1 | 5288.0 | 66405. | 3096.2 |
| #2 | 5264.3 | 66643. | 3082.4 |

Sample Name: 280-42003-B-11-B Acquired: 5/18/2013 0:42:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173687 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.13357** | **-.00297** | **.05717** | **.12488** | **-.00020** | **-.00332** | **74.422** | **.00049** |
| Stddev | .00017 | .00031 | .00158 | .00009 | .00102 | .00008 | .00158 | .773 | .00010 |
| %RSD | 48.138 | .23524 | 53.243 | .15656 | .82043 | 40.744 | 47.556 | 1.0381 | 20.459 |
| #1 | .00048 | .13335 | -.00185 | .05723 | .12416 | -.00026 | -.00444 | 73.876 | .00056 |
| #2 | .00024 | .13379 | -.00408 | .05710 | .12561 | -.00014 | -.00220 | 74.968 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00026** | **.01313** | **.51887** | **9.3852** | **.00182** | **33.933** | **.25591** | **.00201** |
| Stddev | .00015 | .00017 | .00031 | .00103 | .0288 | .00165 | .087 | .00089 | .00008 |
| %RSD | 23.411 | 67.294 | 2.3301 | .19920 | .30710 | 90.663 | .25679 | .34753 | 3.8929 |
| #1 | .00075 | .00038 | .01292 | .51960 | 9.3649 | .00299 | 33.994 | .25654 | .00196 |
| #2 | .00054 | .00013 | .01335 | .51814 | 9.4056 | .00065 | 33.871 | .25528 | .00207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.696** | **.00325** | **.30865** | **.01888** | **38.302** | **.00338** | **.00189** | **3.3442** | **-.00165** |
| Stddev | .543 | .00025 | .00372 | .00021 | .044 | .00032 | .00090 | .0009 | .00069 |
| %RSD | 2.2935 | 7.6326 | 1.2044 | 1.1196 | .11525 | 9.3928 | 47.475 | .02643 | 41.631 |
| #1 | 24.080 | .00343 | .30602 | .01903 | 38.334 | .00316 | .00125 | 3.3435 | -.00117 |
| #2 | 23.311 | .00308 | .31128 | .01873 | 38.271 | .00361 | .00252 | 3.3448 | -.00214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59603** | **.00112** | **.00244** | **-.00153** | **-.01235** | **.00098** | **.22386** | **.00278** |
| Stddev | .00767 | .00060 | .00045 | .00088 | .01259 | .00080 | .00007 | .00419 |
| %RSD | 1.2871 | 53.910 | 18.415 | 57.868 | 101.92 | 81.777 | .02989 | 150.83 |
| #1 | .59060 | .00155 | .00276 | -.00090 | -.00345 | .00041 | .22391 | -.00018 |
| #2 | .60145 | .00069 | .00213 | -.00215 | -.02125 | .00154 | .22381 | .00574 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5320.9** | **67241.** | **3077.3** |
| Stddev | 6.1 | 158. | 42.6 |
| %RSD | .11421 | .23539 | 1.3851 |
| #1 | 5316.6 | 67129. | 3107.5 |
| #2 | 5325.2 | 67353. | 3047.2 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 0:44:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **45.610** | **-.00144** | **.00776** | **.00075** | **-.00009** | **1.0116** | **.00482** | **-.00079** | **.00182** | **.00002** | **.00001** |
| Stddev | .00017 | .323 | .00285 | .00011 | .00012 | .00005 | .0015 | .00541 | .00001 | .00002 | .00011 | .00041 |
| %RSD | 19.970 | .70843 | 198.26 | 1.4197 | 15.782 | 59.873 | .14694 | 112.40 | 1.1152 | 1.1603 | 437.91 | 5605.2 |
| #1 | .00075 | 45.381 | -.00345 | .00768 | .00084 | -.00005 | 1.0105 | .00864 | -.00080 | .00180 | -.00005 | .00030 |
| #2 | .00100 | 45.838 | .00058 | .00784 | .00067 | -.00012 | 1.0126 | .00099 | -.00079 | .00183 | .00010 | -.00028 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **37.731** | **.22872** | **-.00362** | **.01117** | **.00004** | **-.00139** | F **300.28** | **.00145** | **.00780** | **-.00004** | **5.0795** | **.00334** |
| Stddev | .206 | .09463 | .00285 | .00237 | .00001 | .00014 | 1.62 | .00034 | .00070 | .00152 | .0101 | .00100 |
| %RSD | .54622 | 41.373 | 78.869 | 21.250 | 26.974 | 9.8642 | .53813 | 23.326 | 8.9557 | 3666.7 | .19936 | 29.908 |
| #1 | 37.586 | .16181 | -.00563 | .01285 | .00005 | -.00149 | 299.14 | .00121 | .00731 | .00104 | 5.0723 | .00264 |
| #2 | 37.877 | .29563 | -.00160 | .00949 | .00003 | -.00130 | 301.43 | .00169 | .00830 | -.00112 | 5.0867 | .00405 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00648** | **-.00124** | **-.00040** | **.00045** | **5.1153** | **.00311** | **-.00105** | **10.072** | **.00012** | **.00405** | **-.05130** |
| Stddev | .00251 | .02462 | .00103 | .00020 | .0109 | .00027 | .00003 | .031 | .00040 | .00023 | .00075 |
| %RSD | 38.783 | 1992.3 | 255.17 | 43.613 | .21245 | 8.7319 | 3.1952 | .30560 | 327.90 | 5.7122 | 1.4636 |
| #1 | .00471 | .01618 | .00032 | .00031 | 5.1230 | .00292 | -.00107 | 10.094 | -.00016 | .00421 | -.05077 |
| #2 | .00826 | -.01865 | -.00113 | .00059 | 5.1077 | .00330 | -.00103 | 10.050 | .00040 | .00388 | -.05183 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5327.5** | **66889.** | **3096.1** |
| Stddev | 9.3 | 104. | 2.4 |
| %RSD | .17519 | .15474 | .07632 |
| #1 | 5320.9 | 66815. | 3097.8 |
| #2 | 5334.1 | 66962. | 3094.5 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 0:46:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50464** | **.49745** | **.99452** | **.51552** | **.53258** | F **.43998** | **.00293** | **4.5476** | **.49865** | **.50610** | **.49032** | **.48605** |
| Stddev | .00135 | .00107 | .00240 | .00088 | .00235 | .00112 | .00171 | .0135 | .00057 | .00078 | .00044 | .00084 |
| %RSD | .26719 | .21417 | .24135 | .17061 | .44116 | .25567 | 58.384 | .29625 | .11418 | .15364 | .08955 | .17321 |
| #1 | .50368 | .49670 | .99621 | .51614 | .53425 | .44077 | .00414 | 4.5572 | .49905 | .50665 | .49063 | .48545 |
| #2 | .50559 | .49820 | .99282 | .51490 | .53092 | .43918 | .00172 | 4.5381 | .49825 | .50555 | .49001 | .48664 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9393** | F **59.196** | F **1.1705** | **19.757** | **.49900** | **.48154** | F **5.6192** | **.49977** | **1.0084** | **1.0015** | **-.04852** | **1.0036** |
| Stddev | .0083 | .305 | .0039 | .019 | .00155 | .00050 | .0702 | .00083 | .0017 | .0028 | .00004 | .0044 |
| %RSD | .43054 | .51484 | .33590 | .09671 | .31112 | .10300 | 1.2500 | .16542 | .17038 | .27932 | .08864 | .44230 |
| #1 | 1.9452 | 59.411 | 1.1732 | 19.743 | .49790 | .48189 | 5.6688 | .50036 | 1.0096 | 1.0035 | -.04849 | 1.0067 |
| #2 | 1.9334 | 58.980 | 1.1677 | 19.770 | .50010 | .48119 | 5.5695 | .49919 | 1.0072 | .99957 | -.04855 | 1.0004 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0193** | F **4.1716** | **.96915** | **.52402** | **.00147** | **.49212** | **.97391** | **.01676** | **.48940** | **.49671** | **.46115** |
| Stddev | .0030 | .0351 | .00374 | .00184 | .00168 | .00074 | .00731 | .01924 | .00147 | .00054 | .00485 |
| %RSD | .29799 | .84178 | .38541 | .35093 | 114.01 | .14964 | .75039 | 114.77 | .29969 | .10953 | 1.0513 |
| #1 | 1.0214 | 4.1468 | .97179 | .52533 | .00266 | .49159 | .97908 | .00316 | .48836 | .49633 | .45773 |
| #2 | 1.0171 | 4.1964 | .96651 | .52272 | .00029 | .49264 | .96875 | .03036 | .49043 | .49710 | .46458 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5410.7** | **68210.** | **3079.2** |
| Stddev | 6.1 | 100. | 25.2 |
| %RSD | .11276 | .14607 | .81899 |
| #1 | 5406.4 | 68139. | 3061.4 |
| #2 | 5415.1 | 68280. | 3097.1 |

Sample Name: CCB Acquired: 5/18/2013 0:49:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00103** | **.00116** | F **.00378** | **.00057** | **-.00003** | **.00294** | **.00016** | **-.00009** | **-.00001** | **.00019** |
| Stddev | .00011 | .00015 | .00323 | .00075 | .00015 | .00008 | .00053 | .00171 | .00020 | .00013 | .00016 |
| %RSD | 31.172 | 14.710 | 278.06 | 19.850 | 26.095 | 268.48 | 17.936 | 1089.4 | 221.25 | 1438.3 | 82.857 |
| #1 | .00043 | .00093 | .00345 | .00431 | .00047 | -.00009 | .00257 | .00137 | -.00023 | -.00010 | .00008 |
| #2 | .00027 | .00114 | -.00112 | .00325 | .00068 | .00003 | .00332 | -.00105 | .00005 | .00008 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **-.00131** | **.09917** | F **-.00551** | **.00118** | **.00006** | **.00034** | **.02991** | **.00067** | **.00080** | **-.00056** |
| Stddev | .00060 | .00112 | .02988 | .00072 | .00042 | .00004 | .00016 | .00299 | .00038 | .00134 | .00018 |
| %RSD | 194.95 | 85.660 | 30.132 | 13.138 | 35.887 | 67.410 | 45.337 | 10.010 | 57.478 | 166.73 | 31.346 |
| #1 | -.00073 | -.00210 | .12030 | -.00499 | .00088 | .00009 | .00023 | .03203 | .00040 | -.00014 | -.00069 |
| #2 | .00012 | -.00051 | .07804 | -.00602 | .00148 | .00003 | .00045 | .02780 | .00094 | .00175 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | | | | |
| Low Limit | | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05398** | **.00029** | **.00028** | **.01157** | **-.00140** | **-.00017** | **.00013** | **-.00018** | **.00079** | **.03421** | **.00024** |
| Stddev | .00081 | .00105 | .00486 | .00794 | .00041 | .00007 | .00038 | .00031 | .00059 | .00615 | .00021 |
| %RSD | 1.5021 | 369.28 | 1726.5 | 68.626 | 29.448 | 39.198 | 298.37 | 177.10 | 74.777 | 17.963 | 88.988 |
| #1 | -.05341 | -.00046 | -.00315 | .01719 | -.00111 | -.00022 | .00040 | .00004 | .00120 | .03856 | .00009 |
| #2 | -.05456 | .00103 | .00372 | .00596 | -.00169 | -.00012 | -.00014 | -.00039 | .00037 | .02987 | .00039 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00214** | W **.00275** |
| Stddev | .00034 | .00089 |
| %RSD | 15.681 | 32.388 |
| #1 | .00190 | .00338 |
| #2 | .00238 | .00212 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5448.5** | **68520.** | **3086.5** |
| Stddev | 17.9 | 227. | 3.6 |
| %RSD | .32830 | .33177 | .11770 |
| #1 | 5461.2 | 68681. | 3083.9 |
| #2 | 5435.9 | 68359. | 3089.1 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 0:51:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01066** | **.10527** | **.01509** | **.10535** | **.01163** | **.00082** | **.10490** | **.18459** | **.00504** | **.01078** | **.00997** |
| Stddev | .00033 | .00036 | .00048 | .00016 | .00002 | .00016 | .00072 | .00144 | .00025 | .00020 | .00036 |
| %RSD | 3.0815 | .34588 | 3.1876 | .15415 | .13337 | 19.895 | .69026 | .77906 | 4.9682 | 1.8873 | 3.5791 |
| #1 | .01043 | .10501 | .01475 | .10524 | .01161 | .00071 | .10541 | .18357 | .00522 | .01092 | .00972 |
| #2 | .01089 | .10553 | .01543 | .10547 | .01164 | .00094 | .10439 | .18561 | .00487 | .01063 | .01023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01437** | W **.07614** | W **3.7401** | W **.00725** | **.20795** | **.01031** | **.01991** | W **1.2058** | **.04105** | **2.9323** | **.00981** |
| Stddev | .00033 | .00369 | .0219 | .00125 | .00272 | .00011 | .00003 | .0039 | .00013 | .0045 | .00042 |
| %RSD | 2.2960 | 4.8415 | .58665 | 17.303 | 1.3081 | 1.1116 | .16257 | .32429 | .31083 | .15215 | 4.2856 |
| #1 | .01414 | .07354 | 3.7245 | .00636 | .20603 | .01040 | .01993 | 1.2085 | .04114 | 2.9291 | .01010 |
| #2 | .01460 | .07875 | 3.7556 | .00813 | .20987 | .01023 | .01988 | 1.2030 | .04096 | 2.9354 | .00951 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | | | 1.0000 | | | |
| Range | | -20.000% | 20.000% | -20.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04150** | **.01095** | **.01466** | **.41191** | **.09559** | **.01069** | **.01692** | **.00982** | **.01469** | **.06270** | **.00983** |
| Stddev | .00332 | .00148 | .00335 | .01933 | .00016 | .00020 | .00064 | .00031 | .00069 | .05564 | .00067 |
| %RSD | 7.9896 | 13.523 | 22.878 | 4.6934 | .16536 | 1.8739 | 3.7782 | 3.2041 | 4.6634 | 88.735 | 6.8270 |
| #1 | -.04385 | .00990 | .01229 | .39824 | .09570 | .01083 | .01647 | .00960 | .01518 | .10204 | .00936 |
| #2 | -.03916 | .01199 | .01703 | .42558 | .09548 | .01055 | .01738 | .01004 | .01421 | .02336 | .01031 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02347** | **.01494** |
| Stddev | .00023 | .00283 |
| %RSD | .97173 | 18.953 |
| #1 | .02330 | .01294 |
| #2 | .02363 | .01695 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5413.3** | **67913.** | **3081.9** |
| Stddev | 19.1 | 53. | 1.7 |
| %RSD | .35288 | .07757 | .05521 |
| #1 | 5426.8 | 67876. | 3083.1 |
| #2 | 5399.8 | 67951. | 3080.7 |

Sample Name: MB 280-174062/1-A Acquired: 5/18/2013 0:54:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **.00463** | **.00149** | **.00307** | **-.00007** | **-.00012** | **.00036** | **.01277** | **-.00017** |
| Stddev | .00042 | .00028 | .00010 | .00023 | .00036 | .00013 | .00013 | .00450 | .00001 |
| %RSD | 99.155 | 5.9762 | 6.7444 | 7.5182 | 499.45 | 105.96 | 35.320 | 35.214 | 6.0831 |
| #1 | .00072 | .00483 | .00142 | .00323 | -.00032 | -.00021 | .00027 | .00959 | -.00018 |
| #2 | .00013 | .00444 | .00156 | .00291 | .00018 | -.00003 | .00045 | .01594 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00004** | **-.00021** | **.01082** | **.05604** | W **-.00585** | **.00519** | **.00019** | **.00045** |
| Stddev | .00002 | .00006 | .00083 | .00034 | .03326 | .00239 | .00140 | .00002 | .00001 |
| %RSD | 33.141 | 124.14 | 389.67 | 3.1479 | 59.346 | 40.823 | 27.044 | 12.337 | 1.8717 |
| #1 | .00005 | .00001 | .00037 | .01058 | .03253 | -.00416 | .00420 | .00017 | .00045 |
| #2 | .00009 | .00008 | -.00080 | .01106 | .07956 | -.00754 | .00619 | .00021 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00500 | | | |
| Low Limit | | | | | | -.00500 | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03026** | **.00027** | F **.23627** | **-.00095** | **-.04810** | **.00352** | **.00152** | **.02819** | **-.00005** |
| Stddev | .01560 | .00019 | .00220 | .00019 | .00338 | .00017 | .00488 | .00764 | .00122 |
| %RSD | 51.572 | 71.908 | .92971 | 20.490 | 7.0236 | 4.9061 | 321.18 | 27.118 | 2642.6 |
| #1 | .04129 | .00041 | .23782 | -.00109 | -.04571 | .00364 | -.00193 | .03360 | -.00091 |
| #2 | .01922 | .00013 | .23471 | -.00081 | -.05049 | .00340 | .00497 | .02278 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **-.00155** | **.00017** | **-.00039** | **.02331** | **-.00031** | **.00281** | **.00312** |
| Stddev | .00007 | .00082 | .00024 | .00104 | .02356 | .00023 | .00016 | .00122 |
| %RSD | 99.644 | 52.971 | 138.63 | 266.44 | 101.08 | 73.562 | 5.8015 | 39.252 |
| #1 | -.00012 | -.00213 | .00000 | .00034 | .00665 | -.00015 | .00270 | .00398 |
| #2 | -.00002 | -.00097 | .00034 | -.00112 | .03997 | -.00048 | .00293 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5479.2** | **68553.** | **3110.9** |
| Stddev | 1.3 | 83. | 23.3 |
| %RSD | .02431 | .12075 | .74754 |
| #1 | 5478.3 | 68494. | 3127.3 |
| #2 | 5480.2 | 68611. | 3094.4 |

Sample Name: LCS 280-174062/2-A Acquired: 5/18/2013 0:56:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05260** | **1.9287** | **.99875** | **1.0309** | **2.1745** | **.04472** | **2.0604** | **45.365** | **.10316** |
| Stddev | .00003 | .0015 | .00054 | .0013 | .0028 | .00022 | .0016 | .038 | .00012 |
| %RSD | .05206 | .07737 | .05412 | .12754 | .12898 | .50007 | .07753 | .08429 | .11602 |
| #1 | .05258 | 1.9297 | .99913 | 1.0319 | 2.1765 | .04456 | 2.0615 | 45.392 | .10307 |
| #2 | .05262 | 1.9276 | .99837 | 1.0300 | 2.1725 | .04488 | 2.0592 | 45.338 | .10324 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50161** | **.19844** | **.24627** | F **.82034** | F **60.238** | F **1.1808** | **49.532** | **.49726** | **.97213** |
| Stddev | .00060 | .00023 | .00028 | .00369 | .296 | .0014 | .151 | .00159 | .00085 |
| %RSD | .11894 | .11369 | .11291 | .44927 | .49100 | .11852 | .30518 | .32030 | .08718 |
| #1 | .50204 | .19860 | .24607 | .81774 | 60.447 | 1.1818 | 49.425 | .49613 | .97273 |
| #2 | .50119 | .19828 | .24646 | .82295 | 60.028 | 1.1798 | 49.639 | .49838 | .97153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | 57.000 | 1.1400 | | | |
| Low Limit | | | | .88000 | 44.500 | .89000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **62.540** | **.49330** | **10.532** | **.49845** | **-.05819** | **.50758** | **2.0640** | F **8.5110** | **1.9333** |
| Stddev | 1.185 | .00029 | .012 | .00290 | .00137 | .00016 | .0115 | .0324 | .0007 |
| %RSD | 1.8949 | .05916 | .10927 | .58223 | 2.3529 | .03200 | .55503 | .38026 | .03765 |
| #1 | 63.378 | .49309 | 10.524 | .49640 | -.05722 | .50747 | 2.0559 | 8.4881 | 1.9338 |
| #2 | 61.702 | .49350 | 10.540 | .50050 | -.05916 | .50770 | 2.0721 | 8.5339 | 1.9328 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0606** | **1.0356** | **.98819** | **1.9683** | **2.0938** | **.49774** | **.49214** | **.45765** |
| Stddev | .0022 | .0028 | .00299 | .0074 | .0034 | .00140 | .00304 | .00287 |
| %RSD | .20576 | .26663 | .30274 | .37609 | .16263 | .28175 | .61718 | .62654 |
| #1 | 1.0621 | 1.0336 | .98608 | 1.9630 | 2.0962 | .49675 | .48999 | .45968 |
| #2 | 1.0590 | 1.0375 | .99031 | 1.9735 | 2.0914 | .49873 | .49428 | .45563 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5319.4** | **67475.** | **3100.6** |
| Stddev | 6.3 | 148. | 18.7 |
| %RSD | .11768 | .21951 | .60311 |
| #1 | 5315.0 | 67580. | 3087.4 |
| #2 | 5323.8 | 67370. | 3113.8 |

Sample Name: LCSD 280-174062/3-A Acquired: 5/18/2013 0:58:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05379** | **1.9476** | **1.0083** | **1.0482** | **2.1938** | **.04541** | **2.0953** | **45.970** | **.10464** |
| Stddev | .00070 | .0037 | .0004 | .0016 | .0028 | .00014 | .0044 | .030 | .00009 |
| %RSD | 1.3067 | .18730 | .04089 | .15166 | .12817 | .29909 | .21164 | .06569 | .08511 |
| #1 | .05429 | 1.9450 | 1.0086 | 1.0493 | 2.1958 | .04531 | 2.0985 | 45.949 | .10457 |
| #2 | .05329 | 1.9501 | 1.0080 | 1.0471 | 2.1918 | .04550 | 2.0922 | 45.992 | .10470 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50904** | **.20158** | **.25033** | F **.82357** | F **61.198** | F **1.1972** | **50.376** | **.50616** | **.99258** |
| Stddev | .00207 | .00004 | .00121 | .00262 | .075 | .0035 | .114 | .00140 | .00080 |
| %RSD | .40673 | .02213 | .48471 | .31786 | .12285 | .29602 | .22591 | .27598 | .08050 |
| #1 | .51050 | .20155 | .24948 | .82172 | 61.251 | 1.1997 | 50.295 | .50517 | .99314 |
| #2 | .50757 | .20162 | .25119 | .82543 | 61.145 | 1.1947 | 50.456 | .50715 | .99201 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | 57.000 | 1.1400 | | | |
| Low Limit | | | | .88000 | 44.500 | .89000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **62.513** | **.50085** | **10.679** | **.50490** | **-.05074** | **.51608** | **2.0894** | F **8.7221** | **1.9734** |
| Stddev | .168 | .00008 | .022 | .00045 | .00104 | .00195 | .0014 | .0008 | .0005 |
| %RSD | .26936 | .01615 | .20579 | .08940 | 2.0484 | .37792 | .06915 | .00888 | .02363 |
| #1 | 62.632 | .50090 | 10.695 | .50522 | -.05001 | .51745 | 2.0883 | 8.7216 | 1.9731 |
| #2 | 62.394 | .50079 | 10.663 | .50458 | -.05148 | .51470 | 2.0904 | 8.7227 | 1.9737 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0736** | **1.0503** | **1.0059** | **2.0012** | **2.1461** | **.50679** | **.50376** | **.45885** |
| Stddev | .0004 | .0008 | .0027 | .0056 | .0157 | .00112 | .00028 | .00809 |
| %RSD | .03754 | .07591 | .26833 | .27774 | .72913 | .22105 | .05578 | 1.7626 |
| #1 | 1.0733 | 1.0509 | 1.0040 | 2.0051 | 2.1572 | .50600 | .50396 | .46457 |
| #2 | 1.0739 | 1.0497 | 1.0078 | 1.9972 | 2.1351 | .50759 | .50356 | .45313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5317.6** | **67162.** | **3076.5** |
| Stddev | 7.4 | 74. | 6.7 |
| %RSD | .13824 | .11079 | .21681 |
| #1 | 5322.8 | 67110. | 3071.8 |
| #2 | 5312.4 | 67215. | 3081.2 |

Sample Name: 280-42165-A-1-A  Acquired: 5/18/2013 1:00:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00422** | **2.2193** | **.02348** | **.59863** | **.06086** | **-.00024** | **.00918** | **47.927** | **1.8709** |
| Stddev | .00030 | .0029 | .00060 | .00269 | .00009 | .00003 | .00156 | .096 | .0024 |
| %RSD | 6.9949 | .13050 | 2.5369 | .44973 | .14242 | 12.967 | 16.967 | .19974 | .12870 |
| #1 | .00443 | 2.2213 | .02306 | .60053 | .06079 | -.00026 | .01028 | 47.859 | 1.8726 |
| #2 | .00401 | 2.2172 | .02390 | .59673 | .06092 | -.00022 | .00808 | 47.995 | 1.8692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01128** | **.02068** | **8.5481** | **7.4052** | W **301.53** | **.12751** | **33.048** | **.70666** | W **16.319** |
| Stddev | .00020 | .00010 | .0112 | .0143 | .99 | .00221 | .050 | .00110 | .004 |
| %RSD | 1.7942 | .46067 | .13048 | .19303 | .32945 | 1.7310 | .15041 | .15613 | .02549 |
| #1 | .01114 | .02061 | 8.5559 | 7.3951 | 300.83 | .12907 | 33.083 | .70744 | 16.322 |
| #2 | .01142 | .02075 | 8.5402 | 7.4153 | 302.23 | .12595 | 33.013 | .70588 | 16.316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | 100.00 | | | | 2.0000 |
| Low Limit | | | | | -.50000 | | | | -.01000 |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2237.3** | **.09238** | F **105.60** | **.00806** | **2651.0** | **.39237** | **.01795** | **3.7780** | **.23286** |
| Stddev | .2 | .00082 | .18 | .00009 | 3.8 | .00039 | .00382 | .0289 | .00243 |
| %RSD | .00990 | .89125 | .16777 | 1.1640 | .14222 | .10049 | 21.260 | .76613 | 1.0428 |
| #1 | 2237.2 | .09180 | 105.73 | .00813 | 2653.7 | .39209 | .02065 | 3.7575 | .23114 |
| #2 | 2237.5 | .09296 | 105.48 | .00800 | 2648.3 | .39265 | .01525 | 3.7984 | .23458 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | 50.000 | | | | | | |
| Low Limit | 10.000 | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64098** | **.00377** | **.08305** | **.00188** | **.05254** | **.00818** | **.26664** | **.00327** |
| Stddev | .00168 | .00321 | .00030 | .00176 | .03635 | .00028 | .00109 | .00118 |
| %RSD | .26161 | 85.122 | .36698 | 93.905 | 69.188 | 3.4803 | .40864 | 36.072 |
| #1 | .63980 | .00150 | .08284 | .00312 | .07824 | .00838 | .26587 | .00411 |
| #2 | .64217 | .00604 | .08327 | .00063 | .02684 | .00798 | .26742 | .00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4990.6** | **63843.** | **3009.4** |
| Stddev | 2.2 | 237. | 6.1 |
| %RSD | .04410 | .37167 | .20249 |
| #1 | 4989.0 | 63675. | 3013.7 |
| #2 | 4992.1 | 64011. | 3005.1 |

Sample Name: sd 280-42165-A-1-A@5 Acquired: 5/18/2013 1:04:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00115** | **.47594** | **.00390** | **.12369** | **.01192** | **-.00012** | **.00308** | **9.6719** | **.36896** |
| Stddev | .00006 | .00047 | .00092 | .00116 | .00037 | .00001 | .00037 | .0592 | .00007 |
| %RSD | 5.6399 | .09797 | 23.632 | .93976 | 3.1254 | 8.6628 | 12.146 | .61219 | .01815 |
| #1 | .00110 | .47627 | .00455 | .12287 | .01218 | -.00011 | .00282 | 9.6301 | .36892 |
| #2 | .00119 | .47561 | .00325 | .12452 | .01166 | -.00013 | .00335 | 9.7138 | .36901 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00253** | **.00409** | **1.6892** | **1.4829** | **58.979** | **.02490** | **6.9627** | **.14242** | W **3.2514** |
| Stddev | .00011 | .00002 | .0051 | .0044 | .509 | .00182 | .0310 | .00074 | .0066 |
| %RSD | 4.3443 | .45554 | .30026 | .29551 | .86230 | 7.3118 | .44463 | .52148 | .20255 |
| #1 | .00260 | .00408 | 1.6856 | 1.4798 | 58.619 | .02618 | 6.9408 | .14189 | 3.2560 |
| #2 | .00245 | .00410 | 1.6928 | 1.4860 | 59.338 | .02361 | 6.9846 | .14294 | 3.2467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.01000 |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **441.09** | **.01914** | **21.133** | **.00194** | **682.27** | **.08259** | **.00387** | **.72117** | **.04550** |
| Stddev | 2.40 | .00029 | .023 | .00095 | .49 | .00241 | .00025 | .01801 | .00155 |
| %RSD | .54504 | 1.5323 | .10827 | 49.052 | .07187 | 2.9219 | 6.4493 | 2.4968 | 3.4175 |
| #1 | 439.39 | .01934 | 21.149 | .00127 | 682.62 | .08430 | .00404 | .73390 | .04660 |
| #2 | 442.79 | .01893 | 21.117 | .00261 | 681.93 | .08088 | .00369 | .70843 | .04440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12734** | **.00205** | **.01693** | **.00209** | **-.01592** | **.00215** | **.05825** | **.00191** |
| Stddev | .00087 | .00158 | .00002 | .00108 | .04502 | .00005 | .00033 | .00238 |
| %RSD | .68471 | 76.834 | .09077 | 51.533 | 282.89 | 2.1271 | .56108 | 124.41 |
| #1 | .12673 | .00094 | .01692 | .00286 | .01592 | .00211 | .05801 | .00023 |
| #2 | .12796 | .00316 | .01694 | .00133 | -.04775 | .00218 | .05848 | .00359 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5257.0** | **66840.** | **3096.7** |
| Stddev | 4.7 | 393. | 10.7 |
| %RSD | .08957 | .58727 | .34392 |
| #1 | 5260.3 | 67118. | 3104.3 |
| #2 | 5253.6 | 66562. | 3089.2 |

Sample Name: 280-42165-A-2-A Acquired: 5/18/2013 1:06:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00127** | **.18624** | **.00520** | **.27516** | **.11030** | **-.00014** | **.00105** | **67.638** | **.00026** |
| Stddev | .00038 | .00063 | .00103 | .00110 | .00024 | .00011 | .00105 | .115 | .00003 |
| %RSD | 30.030 | .33659 | 19.769 | .39871 | .22079 | 76.710 | 99.892 | .17054 | 13.027 |
| #1 | .00100 | .18580 | .00447 | .27439 | .11048 | -.00006 | .00031 | 67.557 | .00024 |
| #2 | .00153 | .18669 | .00592 | .27594 | .11013 | -.00021 | .00179 | 67.720 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **.00436** | **.00445** | **.49406** | W **375.22** | **.23901** | **63.857** | **.13430** | **.02407** |
| Stddev | .00003 | .00003 | .00031 | .00043 | .48 | .00051 | .058 | .00020 | .00012 |
| %RSD | 1.9439 | .72145 | 6.8864 | .08713 | .12807 | .21480 | .09018 | .15104 | .48793 |
| #1 | .00144 | .00438 | .00466 | .49437 | 374.88 | .23937 | 63.816 | .13416 | .02415 |
| #2 | .00140 | .00433 | .00423 | .49376 | 375.56 | .23865 | 63.897 | .13444 | .02399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **468.13** | **.01422** | **.42088** | **.00164** | **282.77** | **.00119** | **.02011** | **4.1305** | **.01581** |
| Stddev | 1.24 | .00011 | .00410 | .00023 | .12 | .00124 | .00114 | .0220 | .00085 |
| %RSD | .26469 | .77212 | .97326 | 14.021 | .04150 | 104.58 | 5.6543 | .53324 | 5.4023 |
| #1 | 469.01 | .01430 | .42377 | .00180 | 282.69 | .00031 | .01930 | 4.1149 | .01521 |
| #2 | 467.25 | .01415 | .41798 | .00147 | 282.85 | .00207 | .02091 | 4.1461 | .01642 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5210** | **.00101** | **.00763** | **.00080** | **.02932** | **.00853** | **.07070** | **.00539** |
| Stddev | .0017 | .00094 | .00008 | .00055 | .03171 | .00045 | .00035 | .00164 |
| %RSD | .11225 | 93.772 | 1.0785 | 68.825 | 108.12 | 5.2433 | .49494 | 30.493 |
| #1 | 1.5198 | .00034 | .00769 | .00041 | .00690 | .00885 | .07095 | .00423 |
| #2 | 1.5222 | .00167 | .00757 | .00119 | .05174 | .00822 | .07045 | .00655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5148.2** | **65204.** | **3023.0** |
| Stddev | 11.1 | 36. | 7.9 |
| %RSD | .21655 | .05509 | .25979 |
| #1 | 5156.1 | 65179. | 3017.5 |
| #2 | 5140.3 | 65230. | 3028.6 |

Sample Name: 280-42165-A-4-A@25 Acquired: 5/18/2013 1:09:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174062 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00880** | **.39187** | **-.00105** | **.01146** | **.01087** | **.00028** | **.00740** | **1.8886** | **.00099** |
| Stddev | .00015 | .00051 | .00036 | .00029 | .00038 | .00010 | .00487 | .0081 | .00017 |
| %RSD | 1.6663 | .13097 | 34.486 | 2.5257 | 3.4575 | 34.307 | 65.813 | .43176 | 17.488 |
| #1 | .00891 | .39223 | -.00079 | .01167 | .01114 | .00022 | .01084 | 1.8829 | .00112 |
| #2 | .00870 | .39150 | -.00130 | .01126 | .01060 | .00035 | .00396 | 1.8944 | .00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00156** | **.01555** | **.01382** | **.83176** | **61.909** | **.00092** | **.61343** | F **49.492** | **.00494** |
| Stddev | .00001 | .00008 | .00004 | .00268 | .250 | .00026 | .00124 | .298 | .00022 |
| %RSD | .43088 | .49915 | .27876 | .32190 | .40310 | 27.991 | .20154 | .60158 | 4.5575 |
| #1 | .00155 | .01561 | .01384 | .82987 | 61.732 | .00110 | .61256 | 49.281 | .00478 |
| #2 | .00156 | .01550 | .01379 | .83366 | 62.085 | .00074 | .61431 | 49.702 | .00509 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **85.154** | **.05430** | **.07894** | **.02258** | **282.72** | **.03640** | **-.00428** | **.22706** | F **160.85** |
| Stddev | 1.121 | .00067 | .00202 | .00001 | .48 | .00016 | .00435 | .03480 | .23 |
| %RSD | 1.3163 | 1.2365 | 2.5550 | .06267 | .16985 | .43785 | 101.57 | 15.326 | .14444 |
| #1 | 84.362 | .05383 | .07751 | .02259 | 282.38 | .03652 | -.00736 | .20246 | 160.68 |
| #2 | 85.947 | .05478 | .08037 | .02257 | 283.06 | .03629 | -.00121 | .25167 | 161.01 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | | | 20.000 |
| Low Limit | | | | | | | | | -.10000 |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01593** | **-.00434** | **.01805** | F **-.03499** | **-.02447** | F **-.03597** | **.01745** | **.00120** |
| Stddev | .00024 | .00126 | .00045 | .00099 | .01151 | .00026 | .00035 | .00050 |
| %RSD | 1.5267 | 28.923 | 2.4894 | 2.8201 | 47.030 | .72025 | 2.0069 | 41.533 |
| #1 | .01575 | -.00345 | .01773 | -.03429 | -.01633 | -.03579 | .01770 | .00085 |
| #2 | .01610 | -.00523 | .01836 | -.03569 | -.03261 | -.03616 | .01720 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | 20.000 | | 50.000 | | |
| Low Limit | | | | -.02000 | | -.02000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5361.5** | **66772.** | **3044.0** |
| Stddev | .2 | 240. | 17.8 |
| %RSD | .00441 | .36002 | .58619 |
| #1 | 5361.7 | 66602. | 3056.6 |
| #2 | 5361.4 | 66942. | 3031.4 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 1:12:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **46.035** | **-.00033** | **.00267** | **.00119** | **-.00007** | **1.0153** | **.00819** | **-.00085** | **.00222** | **-.00002** | **-.00002** |
| Stddev | .00009 | .213 | .00097 | .00067 | .00056 | .00002 | .0044 | .00066 | .00019 | .00017 | .00030 | .00057 |
| %RSD | 14.070 | .46252 | 297.01 | 25.006 | 46.946 | 30.487 | .43763 | 8.0828 | 22.559 | 7.7695 | 1974.4 | 2616.6 |
| #1 | .00057 | 46.186 | -.00102 | .00220 | .00080 | -.00006 | 1.0185 | .00866 | -.00071 | .00210 | .00020 | .00038 |
| #2 | .00069 | 45.885 | .00036 | .00314 | .00159 | -.00009 | 1.0122 | .00773 | -.00098 | .00234 | -.00023 | -.00042 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.097** | **.74487** | **.00047** | **.01177** | **.00407** | **-.00098** | F **304.97** | **.00175** | **.00913** | **.00229** | **5.4133** | **.00036** |
| Stddev | .202 | .06914 | .00113 | .00015 | .00026 | .00049 | 1.36 | .00005 | .00104 | .00038 | .0350 | .00072 |
| %RSD | .52957 | 9.2828 | 240.05 | 1.2643 | 6.4644 | 49.680 | .44580 | 2.9969 | 11.415 | 16.568 | .64580 | 197.86 |
| #1 | 38.239 | .79376 | .00127 | .01188 | .00425 | -.00063 | 305.93 | .00172 | .00840 | .00256 | 5.4381 | -.00015 |
| #2 | 37.954 | .69598 | -.00033 | .01167 | .00388 | -.00132 | 304.01 | .00179 | .00987 | .00203 | 5.3886 | .00087 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00673** | **-.00235** | **.01844** | **.00046** | **5.1511** | **.00281** | **-.00221** | **10.062** | **.00008** | **.00368** | **-.05113** |
| Stddev | .00409 | .01577 | .00145 | .00031 | .0014 | .00014 | .00019 | .024 | .00019 | .00016 | .00238 |
| %RSD | 60.730 | 671.08 | 7.8518 | 66.943 | .02753 | 4.9943 | 8.4032 | .23560 | 238.48 | 4.4709 | 4.6588 |
| #1 | .00384 | .00880 | .01946 | .00024 | 5.1501 | .00271 | -.00234 | 10.045 | -.00005 | .00380 | -.04944 |
| #2 | .00962 | -.01350 | .01741 | .00068 | 5.1521 | .00291 | -.00208 | 10.079 | .00021 | .00356 | -.05281 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5293.5** | **66284.** | **3030.5** |
| Stddev | 24.9 | 27. | 10.7 |
| %RSD | .47070 | .04086 | .35353 |
| #1 | 5275.9 | 66304. | 3023.0 |
| #2 | 5311.1 | 66265. | 3038.1 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 1:14:33 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50155** | **.49732** | **.99426** | **.50915** | **.52477** | F **.43299** | **.00406** | **4.5314** | **.49607** | **.50310** | **.48969** | **.48458** |
| Stddev | .00075 | .00025 | .00249 | .00066 | .00662 | .00387 | .00275 | .0369 | .00072 | .00012 | .00026 | .00023 |
| %RSD | .14950 | .05010 | .25011 | .12867 | 1.2615 | .89370 | 67.734 | .81386 | .14473 | .02307 | .05222 | .04694 |
| #1 | .50208 | .49750 | .99250 | .50962 | .52945 | .43573 | .00601 | 4.5575 | .49658 | .50301 | .48987 | .48442 |
| #2 | .50102 | .49715 | .99601 | .50869 | .52009 | .43025 | .00212 | 4.5053 | .49556 | .50318 | .48951 | .48474 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9446** | F **58.697** | F **1.1559** | **19.733** | **.49931** | **.48310** | F **5.7389** | **.49987** | **1.0148** | **.99830** | **.20829** | **.99659** |
| Stddev | .0228 | .359 | .0086 | .007 | .00030 | .00182 | .0699 | .00249 | .0047 | .00285 | .00426 | .00493 |
| %RSD | 1.1742 | .61148 | .74008 | .03642 | .06108 | .37693 | 1.2175 | .49835 | .46313 | .28504 | 2.0447 | .49515 |
| #1 | 1.9607 | 58.950 | 1.1620 | 19.727 | .49910 | .48181 | 5.7883 | .49811 | 1.0115 | .99629 | .21130 | .99310 |
| #2 | 1.9285 | 58.443 | 1.1499 | 19.738 | .49953 | .48438 | 5.6895 | .50163 | 1.0181 | 1.0003 | .20528 | 1.0001 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0123** | F **4.1928** | **.97564** | **.51658** | **.00220** | **.49058** | **.97269** | **.01652** | **.48871** | **.49779** | **.46119** |
| Stddev | .0027 | .0117 | .00087 | .00373 | .00125 | .00141 | .00009 | .04250 | .00016 | .00098 | .00248 |
| %RSD | .26431 | .27845 | .08874 | .72180 | 56.946 | .28726 | .00900 | 257.33 | .03188 | .19596 | .53859 |
| #1 | 1.0104 | 4.2010 | .97503 | .51922 | .00309 | .48958 | .97275 | -.01354 | .48882 | .49848 | .46294 |
| #2 | 1.0142 | 4.1845 | .97625 | .51395 | .00132 | .49158 | .97263 | .04657 | .48860 | .49710 | .45943 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5392.7** | **67750.** | **3086.3** |
| Stddev | 5.7 | 50. | 32.7 |
| %RSD | .10546 | .07419 | 1.0586 |
| #1 | 5396.8 | 67715. | 3063.2 |
| #2 | 5388.7 | 67786. | 3109.4 |

Sample Name: CCB Acquired: 5/18/2013 1:16:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | F **.04491** | **.00178** | W **.00305** | **.00032** | **-.00009** | **.00448** | **.00859** | W **.00063** | **.00065** | **.00026** |
| Stddev | .00013 | .00158 | .00033 | .00091 | .00021 | .00019 | .00178 | .00377 | .00034 | .00029 | .00006 |
| %RSD | 16.090 | 3.5262 | 18.596 | 29.911 | 65.071 | 210.50 | 39.618 | 43.871 | 53.534 | 44.176 | 22.754 |
| #1 | .00073 | .04379 | .00155 | .00370 | .00017 | .00004 | .00574 | .00592 | .00039 | .00044 | .00022 |
| #2 | .00091 | .04603 | .00202 | .00241 | .00047 | -.00022 | .00323 | .01125 | .00087 | .00085 | .00031 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | .03600 | | .00156 | | | | | .00045 | | |
| Low Limit | | -.03600 | | -.00156 | | | | | -.00045 | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00158** | **.00585** | F **.42683** | W **-.00403** | F **.06904** | F **.01814** | W **.00478** | F **.20775** | **.00092** | F **.03168** | **.00234** |
| Stddev | .00038 | .00128 | .05731 | .00356 | .00561 | .00072 | .00013 | .00301 | .00032 | .00120 | .00164 |
| %RSD | 24.294 | 21.831 | 13.426 | 88.353 | 8.1233 | 3.9948 | 2.7382 | 1.4509 | 35.073 | 3.7888 | 70.140 |
| #1 | .00131 | .00495 | .46736 | -.00655 | .07300 | .01865 | .00469 | .20988 | .00069 | .03253 | .00118 |
| #2 | .00185 | .00676 | .38631 | -.00151 | .06507 | .01763 | .00488 | .20562 | .00115 | .03083 | .00349 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Warn | Chk Fail | Chk Fail | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Pass |
| High Limit | .00136 | | .25000 | .00261 | .02140 | .00051 | .00313 | .10000 | | .01000 | |
| Low Limit | -.00136 | | -.25000 | -.00261 | -.02140 | -.00051 | -.00313 | -.10000 | | -.01000 | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0601** | **.00198** | **.00165** | **-.01013** | F **.04846** | **.00001** | **.00468** | W **.00070** | **.00040** | **-.00673** | **.00045** |
| Stddev | .0449 | .00185 | .00068 | .00021 | .00199 | .00010 | .00071 | .00008 | .00020 | .03060 | .00023 |
| %RSD | 4.2313 | 93.696 | 41.258 | 2.0952 | 4.1027 | 1158.4 | 15.068 | 11.734 | 50.157 | 454.93 | 50.026 |
| #1 | 1.0284 | .00067 | .00117 | -.00998 | .04705 | .00008 | .00418 | .00064 | .00026 | .01491 | .00061 |
| #2 | 1.0918 | .00328 | .00213 | -.01028 | .04986 | -.00006 | .00518 | .00076 | .00055 | -.02836 | .00029 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01166 | | | .00060 | | | |
| Low Limit | | | | | -.01166 | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.00942** | **.00109** |
| Stddev | .00064 | .00334 |
| %RSD | 6.8374 | 305.88 |
| #1 | .00988 | .00346 |
| #2 | .00897 | -.00127 |
| Check ? | Chk Fail | Chk Pass |
| High Limit | .00906 | |
| Low Limit | -.00906 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5480.1** | **68696.** | **3110.1** |
| Stddev | 3.1 | 284. | 14.0 |
| %RSD | .05655 | .41374 | .45131 |
| #1 | 5477.9 | 68495. | 3100.1 |
| #2 | 5482.2 | 68897. | 3120.0 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 1:19:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01127** | W **.12913** | **.01307** | **.10676** | W **.01206** | **.00102** | **.10979** | F **.29189** | **.00570** | **.01135** | **.01052** |
| Stddev | .00050 | .00133 | .00270 | .00094 | .00037 | .00003 | .00310 | .00732 | .00013 | .00025 | .00033 |
| %RSD | 4.4317 | 1.0273 | 20.690 | .87716 | 3.0536 | 2.8985 | 2.8267 | 2.5089 | 2.1947 | 2.2110 | 3.1155 |
| #1 | .01163 | .13007 | .01116 | .10610 | .01180 | .00100 | .10760 | .28671 | .00579 | .01153 | .01075 |
| #2 | .01092 | .12819 | .01498 | .10742 | .01232 | .00105 | .11199 | .29707 | .00561 | .01117 | .01028 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | .01000 | | | .20000 | | | |
| Range | | 20.000% | | | 20.000% | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01625** | W **.12278** | F **4.4149** | **.01081** | W **.25782** | F **.02308** | **.02237** | F **2.1457** | **.04255** | **3.0545** | **.00978** |
| Stddev | .00010 | .00124 | .0845 | .00433 | .00268 | .00070 | .00002 | .0267 | .00005 | .0048 | .00108 |
| %RSD | .60169 | 1.0073 | 1.9136 | 40.090 | 1.0401 | 3.0175 | .09607 | 1.2425 | .11990 | .15625 | 11.017 |
| #1 | .01618 | .12191 | 4.4746 | .01387 | .25972 | .02358 | .02239 | 2.1646 | .04258 | 3.0512 | .01054 |
| #2 | .01632 | .12366 | 4.3551 | .00774 | .25593 | .02259 | .02236 | 2.1269 | .04251 | 3.0579 | .00902 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | | .20000 | .01000 | | 1.0000 | | | |
| Range | | 20.000% | 30.000% | | 20.000% | 30.000% | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62467** | **.01196** | **.01796** | **.44877** | W **.12875** | W **.01214** | **.01783** | **.01048** | **.01727** | F **.09801** | **.01025** |
| Stddev | .05425 | .00108 | .00018 | .01779 | .00266 | .00006 | .00068 | .00010 | .00079 | .00675 | .00025 |
| %RSD | 8.6849 | 9.0399 | 1.0276 | 3.9650 | 2.0692 | .49903 | 3.7970 | .93597 | 4.5917 | 6.8884 | 2.4651 |
| #1 | .66303 | .01272 | .01809 | .43619 | .13063 | .01218 | .01735 | .01055 | .01671 | .09324 | .01043 |
| #2 | .58631 | .01119 | .01783 | .46135 | .12687 | .01210 | .01830 | .01041 | .01783 | .10278 | .01007 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | .10000 | .01000 | | | | .06000 | |
| Range | | | | | 20.000% | 20.000% | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02802** | **.01674** |
| Stddev | .00021 | .00150 |
| %RSD | .73481 | 8.9624 |
| #1 | .02817 | .01568 |
| #2 | .02788 | .01780 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5424.9** | **68506.** | **3072.9** |
| Stddev | 6.1 | 64. | .6 |
| %RSD | .11322 | .09327 | .01798 |
| #1 | 5420.6 | 68460. | 3073.3 |
| #2 | 5429.3 | 68551. | 3072.5 |

Sample Name: MB 280-174562/1-A Acquired: 5/18/2013 1:21:41 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.02306** | **.00173** | **.00215** | **.00079** | **-.00004** | **-.00310** | **.04694** | **.00027** |
| Stddev | .00075 | .00019 | .00273 | .00056 | .00006 | .00001 | .00312 | .00187 | .00013 |
| %RSD | 201.46 | .84038 | 157.52 | 26.146 | 7.8561 | 27.648 | 100.45 | 3.9906 | 48.350 |
| #1 | -.00016 | .02292 | -.00020 | .00175 | .00083 | -.00005 | -.00090 | .04562 | .00036 |
| #2 | .00091 | .02319 | .00366 | .00254 | .00075 | -.00004 | -.00531 | .04827 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00005** | **.00034** | **.02305** | **.40804** | **-.00374** | **.02366** | W **.00633** | **.00170** |
| Stddev | .00005 | .00016 | .00018 | .00567 | .10504 | .00024 | .00146 | .00017 | .00021 |
| %RSD | 35.173 | 347.96 | 54.231 | 24.589 | 25.742 | 6.3345 | 6.1625 | 2.7278 | 12.517 |
| #1 | .00019 | .00007 | .00047 | .01905 | .48232 | -.00357 | .02470 | .00645 | .00155 |
| #2 | .00012 | -.00016 | .00021 | .02706 | .33377 | -.00391 | .02263 | .00621 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | .00500 | |
| Low Limit | | | | | | | | -.00500 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.56907** | **.00037** | F **.17546** | **.00144** | **.36744** | **.00378** | **.00322** | **.02014** | **.01651** |
| Stddev | .00446 | .00002 | .00292 | .00089 | .00071 | .00188 | .00235 | .01038 | .00039 |
| %RSD | .78351 | 5.0163 | 1.6624 | 62.158 | .19209 | 49.850 | 72.863 | 51.521 | 2.3342 |
| #1 | .57222 | .00036 | .17340 | .00081 | .36694 | .00244 | .00488 | .02748 | .01624 |
| #2 | .56591 | .00038 | .17752 | .00207 | .36793 | .00511 | .00156 | .01280 | .01678 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .50000 | | .01000 | | | | | | |
| Low Limit | -.50000 | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **-.00017** | **.00029** | **.00020** | **.02872** | **.00048** | W **.00502** | **.00224** |
| Stddev | .00016 | .00090 | .00014 | .00035 | .01729 | .00002 | .00048 | .00010 |
| %RSD | 33.220 | 516.80 | 49.180 | 171.63 | 60.196 | 5.0352 | 9.5497 | 4.6298 |
| #1 | .00037 | .00046 | .00019 | -.00004 | .01650 | .00049 | .00536 | .00217 |
| #2 | .00060 | -.00081 | .00040 | .00045 | .04095 | .00046 | .00468 | .00231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00500 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5469.0** | **68643.** | **3083.4** |
| Stddev | 1.7 | 48. | 18.3 |
| %RSD | .03040 | .07023 | .59210 |
| #1 | 5467.8 | 68678. | 3096.3 |
| #2 | 5470.1 | 68609. | 3070.5 |

Sample Name: LCS 280-174562/2-A Acquired: 5/18/2013 1:24:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05327** | **1.9221** | **.97965** | **1.0324** | **2.1458** | **.04441** | **2.0559** | **44.657** | **.10254** |
| Stddev | .00045 | .0125 | .00462 | .0034 | .0079 | .00005 | .0131 | .268 | .00063 |
| %RSD | .84255 | .65134 | .47142 | .32436 | .36650 | .11942 | .63503 | .59948 | .61215 |
| #1 | .05295 | 1.9310 | .98291 | 1.0347 | 2.1403 | .04437 | 2.0652 | 44.468 | .10299 |
| #2 | .05358 | 1.9133 | .97638 | 1.0300 | 2.1514 | .04444 | 2.0467 | 44.846 | .10210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49953** | **.19791** | **.24766** | F **.79532** | F **59.818** | F **1.1694** | **49.136** | **.50111** | **.98938** |
| Stddev | .00366 | .00112 | .00038 | .00952 | .256 | .0042 | .006 | .00013 | .00542 |
| %RSD | .73330 | .56342 | .15307 | 1.1965 | .42833 | .35798 | .01318 | .02615 | .54762 |
| #1 | .50212 | .19870 | .24739 | .78859 | 59.637 | 1.1664 | 49.140 | .50120 | .99321 |
| #2 | .49694 | .19712 | .24793 | .80205 | 59.999 | 1.1723 | 49.131 | .50102 | .98555 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | 57.000 | 1.1400 | | | |
| Low Limit | | | | .88000 | 44.500 | .89000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **63.070** | **.49015** | **10.363** | **.49574** | **.29101** | **.51127** | **2.0270** | F **8.5777** | **1.9702** |
| Stddev | 1.759 | .00202 | .055 | .00293 | .00160 | .00440 | .0227 | .0560 | .0156 |
| %RSD | 2.7894 | .41265 | .53123 | .59010 | .54944 | .86092 | 1.1216 | .65274 | .79233 |
| #1 | 61.826 | .49158 | 10.402 | .49781 | .29214 | .51439 | 2.0430 | 8.5381 | 1.9812 |
| #2 | 64.314 | .48872 | 10.324 | .49367 | .28988 | .50816 | 2.0109 | 8.6173 | 1.9592 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0501** | **1.0463** | **1.0065** | **1.9611** | **2.0593** | **.49628** | **.49174** | **.45587** |
| Stddev | .0057 | .0015 | .0011 | .0188 | .0210 | .00111 | .00023 | .00123 |
| %RSD | .54182 | .14029 | .10899 | .95821 | 1.0200 | .22296 | .04602 | .27049 |
| #1 | 1.0461 | 1.0452 | 1.0057 | 1.9743 | 2.0741 | .49706 | .49190 | .45674 |
| #2 | 1.0542 | 1.0473 | 1.0073 | 1.9478 | 2.0444 | .49549 | .49158 | .45500 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5378.7** | **67613.** | **3148.4** |
| Stddev | 22.5 | 180. | 3.0 |
| %RSD | .41908 | .26632 | .09470 |
| #1 | 5362.8 | 67486. | 3150.6 |
| #2 | 5394.7 | 67740. | 3146.3 |

Sample Name: 280-41352-J-11-A Acquired: 5/18/2013 1:26:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.01836** | **.00172** | **.00981** | **.01587** | **-.00015** | **-.00060** | **.27557** | **.00034** |
| Stddev | .00022 | .00007 | .00091 | .00045 | .00045 | .00004 | .00151 | .00474 | .00011 |
| %RSD | 25.997 | .36105 | 52.923 | 4.6173 | 2.8252 | 23.714 | 251.26 | 1.7208 | 31.892 |
| #1 | .00100 | .01841 | .00236 | .01013 | .01556 | -.00018 | -.00167 | .27221 | .00041 |
| #2 | .00069 | .01831 | .00108 | .00949 | .01619 | -.00013 | .00047 | .27892 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00003** | **.00184** | **.07606** | **.34152** | **-.00324** | **.10756** | **.00721** | **.00125** |
| Stddev | .00036 | .00012 | .00049 | .00461 | .06074 | .00072 | .00197 | .00008 | .00011 |
| %RSD | 246.22 | 392.65 | 26.628 | 6.0621 | 17.785 | 22.069 | 1.8332 | 1.1322 | 8.7547 |
| #1 | .00040 | .00011 | .00150 | .07280 | .29857 | -.00375 | .10895 | .00727 | .00133 |
| #2 | -.00011 | -.00005 | .00219 | .07932 | .38447 | -.00274 | .10616 | .00715 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64045** | **.00048** | **.16336** | **.00076** | **.25936** | **.00188** | **.00373** | **1.6588** | **.01302** |
| Stddev | .01194 | .00008 | .00130 | .00060 | .00478 | .00031 | .00103 | .0015 | .00010 |
| %RSD | 1.8651 | 16.915 | .79484 | 78.085 | 1.8437 | 16.237 | 27.692 | .09260 | .80487 |
| #1 | .63200 | .00042 | .16428 | .00034 | .26274 | .00167 | .00300 | 1.6577 | .01310 |
| #2 | .64889 | .00054 | .16244 | .00119 | .25598 | .00210 | .00446 | 1.6599 | .01295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00425** | **.00298** | **.00049** | **-.00117** | **.00658** | **.00062** | **.01262** | **.00482** |
| Stddev | .00005 | .00127 | .00008 | .00009 | .00308 | .00066 | .00035 | .00023 |
| %RSD | 1.2127 | 42.604 | 16.439 | 8.1391 | 46.857 | 106.39 | 2.7969 | 4.8643 |
| #1 | .00421 | .00388 | .00044 | -.00123 | .00440 | .00015 | .01237 | .00465 |
| #2 | .00428 | .00208 | .00055 | -.00110 | .00876 | .00108 | .01287 | .00499 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5490.9** | **69665.** | **3166.5** |
| Stddev | 5.0 | 152. | 1.1 |
| %RSD | .09163 | .21767 | .03475 |
| #1 | 5494.5 | 69558. | 3165.8 |
| #2 | 5487.4 | 69772. | 3167.3 |

Sample Name: 280-41447-E-4-A Acquired: 5/18/2013 1:28:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.01076** | **-.00036** | **.04926** | **.03540** | **.00002** | **-.00642** | **32.700** | **.00056** |
| Stddev | .00033 | .00079 | .00141 | .00005 | .00040 | .00001 | .00001 | .061 | .00031 |
| %RSD | 52.127 | 7.3571 | 386.81 | .09721 | 1.1233 | 49.491 | .18522 | .18562 | 55.400 |
| #1 | .00040 | .01132 | .00063 | .04922 | .03568 | .00002 | -.00643 | 32.657 | .00078 |
| #2 | .00087 | .01020 | -.00136 | .04929 | .03512 | .00001 | -.00642 | 32.742 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00146** | **.00002** | **.00104** | **1.0099** | **1.7783** | **-.00207** | **20.384** | **.61302** | **.00246** |
| Stddev | .00020 | .00036 | .00031 | .0118 | .0710 | .00013 | .023 | .00021 | .00029 |
| %RSD | 13.615 | 1709.3 | 29.964 | 1.1676 | 3.9906 | 6.5085 | .11411 | .03482 | 11.735 |
| #1 | .00132 | .00028 | .00126 | 1.0016 | 1.8285 | -.00197 | 20.401 | .61317 | .00266 |
| #2 | .00161 | -.00023 | .00082 | 1.0182 | 1.7282 | -.00216 | 20.368 | .61287 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **16.327** | **.00302** | **.37097** | **.00281** | **14.449** | **.00269** | **.00476** | **23.962** | **.00947** |
| Stddev | .602 | .00029 | .00163 | .00195 | .003 | .00092 | .00043 | .152 | .00051 |
| %RSD | 3.6900 | 9.6223 | .43894 | 69.363 | .01789 | 34.326 | 9.0496 | .63376 | 5.3637 |
| #1 | 16.753 | .00322 | .37212 | .00418 | 14.451 | .00335 | .00506 | 23.854 | .00983 |
| #2 | 15.901 | .00281 | .36982 | .00143 | 14.447 | .00204 | .00445 | 24.069 | .00911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16909** | **-.00106** | **.00051** | **-.00072** | **.03092** | **.00455** | **.00910** | **.00371** |
| Stddev | .00088 | .00120 | .00022 | .00000 | .03593 | .00107 | .00024 | .00000 |
| %RSD | .51957 | 113.84 | 43.707 | .44415 | 116.18 | 23.554 | 2.6289 | .01742 |
| #1 | .16847 | -.00021 | .00067 | -.00072 | .00552 | .00531 | .00927 | .00371 |
| #2 | .16971 | -.00191 | .00035 | -.00072 | .05633 | .00379 | .00893 | .00371 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5442.2** | **68540.** | **3165.9** |
| Stddev | 4.9 | 112. | 3.0 |
| %RSD | .09011 | .16339 | .09510 |
| #1 | 5438.8 | 68461. | 3168.1 |
| #2 | 5445.7 | 68620. | 3163.8 |

Sample Name: 280-41447-E-5-A Acquired: 5/18/2013 1:31:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00609** | **-.00125** | **.04815** | **.03614** | **-.00001** | **-.00754** | **33.819** | **.00045** |
| Stddev | .00062 | .00028 | .00160 | .00061 | .00051 | .00005 | .00029 | .078 | .00004 |
| %RSD | 122.56 | 4.5196 | 128.03 | 1.2625 | 1.4094 | 566.59 | 3.8837 | .23036 | 9.4082 |
| #1 | .00007 | .00629 | -.00238 | .04772 | .03578 | -.00005 | -.00774 | 33.764 | .00042 |
| #2 | .00095 | .00590 | -.00012 | .04858 | .03650 | .00003 | -.00733 | 33.874 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **-.00012** | **.00072** | **1.0377** | **1.6911** | **.00064** | **20.784** | **.62083** | **.00195** |
| Stddev | .00024 | .00000 | .00054 | .0014 | .0131 | .00070 | .011 | .00041 | .00014 |
| %RSD | 17.154 | .42741 | 75.200 | .13001 | .77577 | 108.91 | .05076 | .06675 | 7.2009 |
| #1 | .00121 | -.00011 | .00110 | 1.0367 | 1.6818 | .00114 | 20.776 | .62053 | .00185 |
| #2 | .00154 | -.00012 | .00034 | 1.0386 | 1.7004 | .00015 | 20.791 | .62112 | .00205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.953** | **.00257** | **.37383** | **.00185** | **14.447** | **.00130** | **.00174** | **24.756** | **.00181** |
| Stddev | .238 | .00005 | .00008 | .00037 | .012 | .00050 | .00223 | .007 | .00033 |
| %RSD | 1.4923 | 2.1023 | .02033 | 19.743 | .08365 | 38.679 | 128.22 | .02711 | 18.130 |
| #1 | 16.121 | .00261 | .37389 | .00211 | 14.455 | .00094 | .00331 | 24.760 | .00204 |
| #2 | 15.785 | .00253 | .37378 | .00159 | 14.438 | .00165 | .00016 | 24.751 | .00158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17186** | **.00138** | **.00027** | **-.00207** | **-.01307** | **.00501** | **.01169** | **.00166** |
| Stddev | .00088 | .00202 | .00004 | .00231 | .01863 | .00082 | .00049 | .00121 |
| %RSD | .51236 | 146.71 | 14.081 | 111.88 | 142.48 | 16.430 | 4.1793 | 72.707 |
| #1 | .17124 | -.00005 | .00024 | -.00043 | .00010 | .00443 | .01135 | .00081 |
| #2 | .17248 | .00281 | .00030 | -.00370 | -.02624 | .00559 | .01204 | .00252 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5480.1** | **69241.** | **3170.6** |
| Stddev | .4 | 40. | 8.7 |
| %RSD | .00768 | .05705 | .27390 |
| #1 | 5479.8 | 69213. | 3176.8 |
| #2 | 5480.4 | 69269. | 3164.5 |

Sample Name: 280-41447-E-7-B Acquired: 5/18/2013 1:33:41 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00339** | **-.00140** | **.05793** | **.02278** | **-.00022** | **-.00206** | **23.523** | **.00036** |
| Stddev | .00006 | .00001 | .00037 | .00003 | .00091 | .00005 | .00323 | .043 | .00016 |
| %RSD | 12.303 | .34904 | 26.819 | .04456 | 3.9946 | 24.834 | 157.16 | .18453 | 43.941 |
| #1 | .00042 | .00339 | -.00113 | .05792 | .02214 | -.00018 | -.00434 | 23.492 | .00047 |
| #2 | .00050 | .00340 | -.00166 | .05795 | .02343 | -.00026 | .00023 | 23.554 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00144** | **.00025** | **.00027** | **.08628** | **1.3671** | **.00012** | **14.160** | **.48928** | **.00260** |
| Stddev | .00006 | .00001 | .00037 | .00022 | .0506 | .00056 | .004 | .00028 | .00038 |
| %RSD | 3.9702 | 5.0985 | 137.75 | .25827 | 3.7037 | 469.52 | .02710 | .05661 | 14.423 |
| #1 | .00148 | .00024 | .00001 | .08612 | 1.3313 | -.00028 | 14.158 | .48947 | .00234 |
| #2 | .00140 | .00026 | .00053 | .08644 | 1.4029 | .00051 | 14.163 | .48908 | .00287 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **16.990** | **.00222** | **.35363** | **.00265** | **6.1909** | **.00161** | **.00352** | **23.848** | **.00007** |
| Stddev | .430 | .00014 | .00317 | .00091 | .0196 | .00188 | .00148 | .124 | .00006 |
| %RSD | 2.5290 | 6.4291 | .89674 | 34.187 | .31632 | 116.53 | 41.920 | .52080 | 99.064 |
| #1 | 17.293 | .00212 | .35588 | .00329 | 6.2048 | .00028 | .00248 | 23.936 | .00011 |
| #2 | 16.686 | .00232 | .35139 | .00201 | 6.1771 | .00294 | .00457 | 23.760 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12183** | **.00191** | **.00005** | **-.00073** | **-.00841** | **.01092** | **.00511** | **.00362** |
| Stddev | .00066 | .00005 | .00018 | .00120 | .01684 | .00099 | .00033 | .00131 |
| %RSD | .54511 | 2.7309 | 336.67 | 163.03 | 200.07 | 9.0322 | 6.5349 | 36.177 |
| #1 | .12230 | .00187 | .00018 | -.00158 | -.02032 | .01022 | .00535 | .00269 |
| #2 | .12136 | .00194 | -.00008 | .00011 | .00349 | .01161 | .00487 | .00454 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5493.7** | **69335.** | **3154.9** |
| Stddev | 13.2 | 24. | 20.8 |
| %RSD | .24091 | .03518 | .65789 |
| #1 | 5484.4 | 69318. | 3169.5 |
| #2 | 5503.1 | 69352. | 3140.2 |

Sample Name: sd 280-41447-E-7-B@5 Acquired: 5/18/2013 1:36:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00206** | **.00189** | **.01261** | **.00518** | **-.00009** | **.00079** | **4.9726** | **.00007** |
| Stddev | .00050 | .00035 | .00183 | .00036 | .00005 | .00005 | .00227 | .0016 | .00005 |
| %RSD | 87.246 | 17.091 | 96.358 | 2.8299 | .87177 | 62.110 | 287.70 | .03239 | 68.629 |
| #1 | .00092 | .00231 | .00318 | .01236 | .00515 | -.00005 | .00240 | 4.9738 | .00004 |
| #2 | .00022 | .00181 | .00060 | .01286 | .00522 | -.00012 | -.00082 | 4.9715 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00001** | **.00011** | **.03265** | **.38554** | **-.00185** | **2.9952** | **.10350** | **.00088** |
| Stddev | .00016 | .00016 | .00033 | .00401 | .01606 | .00165 | .0003 | .00000 | .00005 |
| %RSD | 63.428 | 1610.4 | 300.67 | 12.269 | 4.1651 | 88.910 | .01148 | .00058 | 5.9610 |
| #1 | .00014 | -.00011 | .00034 | .02982 | .37419 | -.00302 | 2.9949 | .10351 | .00091 |
| #2 | .00038 | .00013 | -.00012 | .03548 | .39690 | -.00069 | 2.9954 | .10350 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2835** | **.00097** | **.07547** | **.00088** | **1.3075** | **.00079** | **.00251** | **4.9272** | **-.00001** |
| Stddev | .0101 | .00006 | .00224 | .00162 | .0037 | .00116 | .00335 | .0544 | .00056 |
| %RSD | .30898 | 6.6824 | 2.9741 | 184.79 | .28249 | 146.35 | 133.22 | 1.1045 | 6800.4 |
| #1 | 3.2907 | .00101 | .07706 | -.00027 | 1.3101 | .00161 | .00015 | 4.9656 | -.00040 |
| #2 | 3.2763 | .00092 | .07388 | .00203 | 1.3049 | -.00003 | .00488 | 4.8887 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02541** | **.00020** | **-.00009** | **-.00001** | **.01179** | **.00248** | **.00401** | **-.00055** |
| Stddev | .00010 | .00010 | .00027 | .00009 | .00674 | .00046 | .00034 | .00145 |
| %RSD | .40879 | 50.505 | 309.45 | 689.87 | 57.113 | 18.596 | 8.4795 | 265.01 |
| #1 | .02548 | .00013 | .00010 | .00005 | .00703 | .00280 | .00377 | -.00158 |
| #2 | .02534 | .00027 | -.00028 | -.00008 | .01656 | .00215 | .00425 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5559.2** | **70230.** | **3151.0** |
| Stddev | 1.8 | 191. | 7.8 |
| %RSD | .03167 | .27231 | .24804 |
| #1 | 5560.4 | 70365. | 3145.5 |
| #2 | 5557.9 | 70094. | 3156.6 |

Sample Name: 280-41447-E-7-C MS  Acquired: 5/18/2013 1:38:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05401** | **1.8994** | **.98533** | **1.0860** | **2.1865** | **.04423** | **2.0555** | **68.653** | **.10263** |
| Stddev | .00030 | .0002 | .00169 | .0008 | .0066 | .00006 | .0063 | .171 | .00012 |
| %RSD | .56221 | .01178 | .17194 | .07629 | .30178 | .14162 | .30456 | .24884 | .11974 |
| #1 | .05380 | 1.8996 | .98413 | 1.0866 | 2.1911 | .04419 | 2.0510 | 68.774 | .10254 |
| #2 | .05423 | 1.8993 | .98653 | 1.0854 | 2.1818 | .04427 | 2.0599 | 68.532 | .10272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49910** | **.19774** | **.24882** | **.86260** | **61.547** | **1.1860** | **63.216** | **.98865** | **.98075** |
| Stddev | .00076 | .00045 | .00001 | .00150 | .209 | .0022 | .156 | .00124 | .00205 |
| %RSD | .15197 | .22626 | .00283 | .17346 | .33930 | .18100 | .24650 | .12532 | .20937 |
| #1 | .49856 | .19742 | .24883 | .86154 | 61.695 | 1.1875 | 63.326 | .98953 | .97930 |
| #2 | .49963 | .19806 | .24882 | .86365 | 61.400 | 1.1845 | 63.106 | .98778 | .98220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.944** | **.49011** | **10.498** | **.49453** | **6.4919** | **.50553** | **2.0156** | **33.010** | **1.9399** |
| Stddev | .799 | .00006 | .011 | .00066 | .0027 | .00284 | .0021 | .099 | .0017 |
| %RSD | .99899 | .01272 | .10152 | .13447 | .04153 | .56168 | .10529 | .29929 | .08876 |
| #1 | 80.508 | .49016 | 10.491 | .49406 | 6.4938 | .50754 | 2.0141 | 33.080 | 1.9387 |
| #2 | 79.379 | .49007 | 10.506 | .49500 | 6.4899 | .50352 | 2.0171 | 32.940 | 1.9411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1818** | **1.0368** | **.99433** | **1.9363** | **2.0912** | **.50355** | **.48724** | **.45303** |
| Stddev | .0028 | .0002 | .00077 | .0004 | .0137 | .00257 | .00032 | .00571 |
| %RSD | .23800 | .02298 | .07710 | .02321 | .65640 | .50955 | .06578 | 1.2610 |
| #1 | 1.1838 | 1.0367 | .99487 | 1.9360 | 2.0815 | .50536 | .48746 | .45707 |
| #2 | 1.1798 | 1.0370 | .99378 | 1.9366 | 2.1010 | .50173 | .48701 | .44899 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5368.9** | **67948.** | **3126.9** |
| Stddev | .5 | 204. | 6.3 |
| %RSD | .00923 | .29986 | .20124 |
| #1 | 5369.2 | 67804. | 3122.4 |
| #2 | 5368.5 | 68092. | 3131.3 |

Sample Name: 280-41447-E-7-D MSD  Acquired: 5/18/2013 1:40:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05442** | **1.9155** | **.99592** | **1.1058** | **2.1980** | **.04454** | **2.0680** | **68.894** | **.10307** |
| Stddev | .00009 | .0053 | .00232 | .0012 | .0024 | .00028 | .0013 | .084 | .00006 |
| %RSD | .16850 | .27842 | .23313 | .10669 | .11013 | .63711 | .06083 | .12251 | .05357 |
| #1 | .05448 | 1.9117 | .99428 | 1.1050 | 2.1997 | .04434 | 2.0689 | 68.953 | .10303 |
| #2 | .05435 | 1.9192 | .99757 | 1.1067 | 2.1962 | .04474 | 2.0671 | 68.834 | .10311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50308** | **.19965** | **.24988** | **.86772** | **61.633** | **1.1961** | **63.625** | **.99678** | **.99312** |
| Stddev | .00015 | .00034 | .00103 | .01177 | .049 | .0021 | .091 | .00099 | .00064 |
| %RSD | .02948 | .16994 | .41126 | 1.3560 | .07990 | .17599 | .14245 | .09900 | .06396 |
| #1 | .50298 | .19989 | .25061 | .85940 | 61.598 | 1.1975 | 63.689 | .99748 | .99268 |
| #2 | .50319 | .19941 | .24915 | .87604 | 61.668 | 1.1946 | 63.561 | .99608 | .99357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.850** | **.49316** | **10.586** | **.49739** | **6.5366** | **.51607** | **2.0361** | **33.323** | **1.9702** |
| Stddev | .823 | .00027 | .008 | .00101 | .0082 | .00087 | .0026 | .021 | .0060 |
| %RSD | 1.0301 | .05416 | .07646 | .20374 | .12598 | .16850 | .12797 | .06251 | .30214 |
| #1 | 79.268 | .49297 | 10.580 | .49667 | 6.5308 | .51668 | 2.0343 | 33.337 | 1.9660 |
| #2 | 80.431 | .49335 | 10.591 | .49810 | 6.5424 | .51545 | 2.0379 | 33.308 | 1.9744 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1871** | **1.0440** | **1.0069** | **1.9540** | **2.0810** | **.50812** | **.48688** | **.46012** |
| Stddev | .0004 | .0014 | .0006 | .0000 | .0077 | .00148 | .00134 | .00003 |
| %RSD | .03588 | .13887 | .05414 | .00213 | .37072 | .29079 | .27521 | .00588 |
| #1 | 1.1874 | 1.0429 | 1.0073 | 1.9541 | 2.0864 | .50917 | .48783 | .46010 |
| #2 | 1.1868 | 1.0450 | 1.0065 | 1.9540 | 2.0755 | .50708 | .48594 | .46014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5354.6** | **67889.** | **3135.6** |
| Stddev | 1.6 | 29. | 21.9 |
| %RSD | .03021 | .04226 | .69968 |
| #1 | 5355.7 | 67869. | 3120.1 |
| #2 | 5353.4 | 67910. | 3151.1 |

Sample Name: pds 280-41447-E-7-B  Acquired: 5/18/2013 1:42:57  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174562 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05151** | **.96797** | **.19262** | **.16718** | **.13066** | **.04403** | **-.00695** | **41.444** | **.05080** |
| Stddev | .00007 | .00252 | .00172 | .00000 | .00080 | .00004 | .00178 | .319 | .00002 |
| %RSD | .14233 | .25983 | .89420 | .00151 | .60982 | .08533 | 25.630 | .76936 | .03693 |
| #1 | .05146 | .96974 | .19141 | .16718 | .13122 | .04405 | -.00821 | 41.669 | .05081 |
| #2 | .05156 | .96619 | .19384 | .16718 | .13009 | .04400 | -.00569 | 41.218 | .05079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05116** | **.04972** | **.05015** | **.86034** | **25.207** | **.11891** | **33.665** | **.54317** | **.05295** |
| Stddev | .00020 | .00004 | .00051 | .00644 | .225 | .00074 | .032 | .00036 | .00028 |
| %RSD | .39221 | .07995 | 1.0146 | .74904 | .89104 | .62587 | .09418 | .06568 | .53652 |
| #1 | .05130 | .04969 | .04979 | .85578 | 25.366 | .11943 | 33.643 | .54292 | .05275 |
| #2 | .05102 | .04975 | .05051 | .86489 | 25.048 | .11838 | 33.688 | .54342 | .05315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **42.333** | **.05164** | **2.3634** | **.10251** | **6.3899** | **.10598** | **.19987** | **28.549** | **.09941** |
| Stddev | .138 | .00012 | .0069 | .00010 | .0157 | .00105 | .00385 | .069 | .00110 |
| %RSD | .32526 | .23957 | .29007 | .09677 | .24604 | .98823 | 1.9254 | .24261 | 1.1024 |
| #1 | 42.431 | .05155 | 2.3682 | .10258 | 6.4010 | .10672 | .20259 | 28.598 | .10019 |
| #2 | 42.236 | .05173 | 2.3585 | .10244 | 6.3788 | .10524 | .19715 | 28.500 | .09864 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17791** | **.20712** | **.05186** | **.19362** | **.53519** | **.05917** | **.19875** | **.04755** |
| Stddev | .00006 | .00183 | .00005 | .00008 | .01832 | .00032 | .00026 | .00270 |
| %RSD | .03284 | .88227 | .09160 | .04151 | 3.4237 | .54022 | .13104 | 5.6849 |
| #1 | .17795 | .20583 | .05190 | .19368 | .54814 | .05894 | .19857 | .04946 |
| #2 | .17787 | .20841 | .05183 | .19357 | .52223 | .05939 | .19894 | .04564 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5436.0** | **69162.** | **3152.2** |
| Stddev | 34.1 | 51. | 19.7 |
| %RSD | .62655 | .07344 | .62364 |
| #1 | 5411.9 | 69197. | 3138.3 |
| #2 | 5460.1 | 69126. | 3166.1 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 1:45:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **45.221** | **.00113** | **.00235** | **.00015** | **-.00015** | **1.0151** | **.00286** | **-.00083** | **.00187** | **-.00000** | **-.00045** |
| Stddev | .00013 | .352 | .00294 | .00007 | .00006 | .00007 | .0019 | .00323 | .00004 | .00012 | .00008 | .00026 |
| %RSD | 21.586 | .77888 | 260.73 | 2.9958 | 39.523 | 43.537 | .18211 | 113.08 | 5.2858 | 6.3651 | 2351.3 | 56.608 |
| #1 | .00050 | 45.470 | .00321 | .00240 | .00019 | -.00011 | 1.0138 | .00057 | -.00080 | .00196 | .00005 | -.00027 |
| #2 | .00068 | 44.972 | -.00095 | .00230 | .00011 | -.00020 | 1.0164 | .00514 | -.00086 | .00179 | -.00006 | -.00063 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **37.375** | **.32924** | **-.00527** | **.01253** | **.00008** | **-.00151** | F **301.30** | **.00151** | **.00880** | **-.00065** | **5.1009** | **.00514** |
| Stddev | .326 | .07004 | .00091 | .00169 | .00002 | .00028 | 2.34 | .00028 | .00032 | .00051 | .0116 | .00047 |
| %RSD | .87200 | 21.272 | 17.220 | 13.506 | 30.242 | 18.757 | .77523 | 18.712 | 3.6306 | 78.482 | .22714 | 9.1233 |
| #1 | 37.605 | .27972 | -.00591 | .01373 | .00006 | -.00171 | 302.96 | .00131 | .00903 | -.00101 | 5.0927 | .00481 |
| #2 | 37.144 | .37877 | -.00463 | .01133 | .00009 | -.00131 | 299.65 | .00171 | .00858 | -.00029 | 5.1091 | .00547 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00636** | **.00444** | **-.00035** | **.00043** | **5.1222** | **.00305** | **-.00122** | **10.131** | **-.00064** | **.00291** | **-.05725** |
| Stddev | .00309 | .01352 | .00046 | .00021 | .0213 | .00008 | .00026 | .045 | .00019 | .00037 | .00250 |
| %RSD | 48.528 | 304.22 | 129.40 | 48.036 | .41569 | 2.7115 | 21.071 | .44164 | 29.543 | 12.811 | 4.3674 |
| #1 | .00418 | -.00512 | -.00003 | .00028 | 5.1373 | .00311 | -.00141 | 10.099 | -.00050 | .00265 | -.05548 |
| #2 | .00855 | .01401 | -.00068 | .00058 | 5.1072 | .00299 | -.00104 | 10.162 | -.00077 | .00318 | -.05901 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5436.1** | **69019.** | **3164.2** |
| Stddev | 30.6 | 335. | 32.2 |
| %RSD | .56346 | .48505 | 1.0179 |
| #1 | 5457.8 | 68782. | 3141.4 |
| #2 | 5414.5 | 69255. | 3187.0 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 1:47:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50085** | **.49838** | **.98759** | **.50784** | **.52878** | F **.43137** | **.00612** | **4.5281** | **.49568** | **.50582** | **.48905** | **.48388** |
| Stddev | .00069 | .00145 | .00374 | .00036 | .00496 | .00465 | .00192 | .0245 | .00016 | .00277 | .00022 | .00124 |
| %RSD | .13794 | .29118 | .37854 | .07002 | .93728 | 1.0780 | 31.357 | .54067 | .03257 | .54849 | .04405 | .25575 |
| #1 | .50134 | .49736 | .98494 | .50759 | .53229 | .43466 | .00477 | 4.5454 | .49557 | .50386 | .48921 | .48475 |
| #2 | .50036 | .49941 | .99023 | .50810 | .52528 | .42808 | .00748 | 4.5107 | .49579 | .50778 | .48890 | .48300 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9317** | F **59.038** | F **1.1680** | **19.569** | **.49550** | **.48210** | F **5.5876** | **.49936** | **1.0088** | **.99886** | **-.00078** | **.99988** |
| Stddev | .0024 | .335 | .0083 | .007 | .00003 | .00352 | .0809 | .00366 | .0041 | .00363 | .00000 | .00511 |
| %RSD | .12582 | .56755 | .71029 | .03504 | .00677 | .73013 | 1.4482 | .73210 | .40246 | .36376 | .28511 | .51060 |
| #1 | 1.9334 | 59.275 | 1.1739 | 19.574 | .49548 | .47961 | 5.6448 | .49678 | 1.0059 | .99629 | -.00078 | .99627 |
| #2 | 1.9299 | 58.801 | 1.1622 | 19.565 | .49553 | .48459 | 5.5304 | .50195 | 1.0117 | 1.0014 | -.00078 | 1.0035 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0087** | F **4.1508** | **.96800** | **.52074** | **.00266** | **.48970** | **.97658** | **.04678** | **.48686** | **.49198** | **.45835** |
| Stddev | .0006 | .0187 | .00508 | .00325 | .00045 | .00093 | .00021 | .00578 | .00065 | .00250 | .00557 |
| %RSD | .05723 | .45017 | .52469 | .62425 | 16.777 | .19034 | .02130 | 12.345 | .13377 | .50864 | 1.2147 |
| #1 | 1.0083 | 4.1640 | .96441 | .52304 | .00235 | .48904 | .97673 | .04270 | .48640 | .49021 | .46229 |
| #2 | 1.0091 | 4.1376 | .97159 | .51844 | .00298 | .49036 | .97644 | .05086 | .48732 | .49375 | .45441 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5478.2** | **69521.** | **3142.8** |
| Stddev | 4.5 | 23. | 13.9 |
| %RSD | .08168 | .03333 | .44312 |
| #1 | 5475.0 | 69537. | 3132.9 |
| #2 | 5481.4 | 69504. | 3152.6 |

Sample Name: CCB Acquired: 5/18/2013 1:49:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.00358** | **.00143** | **.00080** | **.00031** | **-.00008** | **.00293** | **.01435** | **-.00004** | **.00040** | **.00003** |
| Stddev | .00000 | .00018 | .00017 | .00083 | .00036 | .00006 | .00137 | .00050 | .00017 | .00012 | .00002 |
| %RSD | .26340 | 5.0588 | 12.237 | 104.36 | 116.56 | 80.018 | 46.842 | 3.5027 | 479.33 | 30.187 | 55.068 |
| #1 | .00068 | .00345 | .00130 | .00021 | .00057 | -.00012 | .00196 | .01399 | -.00016 | .00049 | .00002 |
| #2 | .00068 | .00371 | .00155 | .00138 | .00005 | -.00003 | .00389 | .01470 | .00009 | .00031 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.00331** | **.07763** | W **-.00346** | W **.01316** | F **.00052** | **.00053** | **.04733** | **.00031** | **.00357** | **-.00034** |
| Stddev | .00000 | .00120 | .00181 | .00178 | .00144 | .00004 | .00004 | .00081 | .00004 | .00069 | .00096 |
| %RSD | 1.1254 | 36.343 | 2.3288 | 51.320 | 10.979 | 7.0979 | 7.9552 | 1.7051 | 14.148 | 19.437 | 286.64 |
| #1 | -.00024 | .00246 | .07891 | -.00472 | .01213 | .00050 | .00050 | .04791 | .00035 | .00406 | .00034 |
| #2 | -.00024 | .00416 | .07635 | -.00221 | .01418 | .00055 | .00056 | .04676 | .00028 | .00308 | -.00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | .01070 | .00051 | | | | | |
| Low Limit | | | | -.00261 | -.01070 | -.00051 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00695** | **.00129** | **.00014** | **.02433** | **.00007** | **.00017** | **.00118** | **.00015** | **.00029** | **.01033** | **.00065** |
| Stddev | .00129 | .00374 | .00217 | .01364 | .00003 | .00001 | .00031 | .00014 | .00020 | .00437 | .00003 |
| %RSD | 18.566 | 290.74 | 1533.3 | 56.079 | 43.277 | 3.6950 | 26.625 | 93.782 | 68.390 | 42.314 | 4.7941 |
| #1 | -.00787 | -.00136 | .00168 | .01468 | .00009 | .00017 | .00096 | .00005 | .00015 | .00724 | .00063 |
| #2 | -.00604 | .00393 | -.00139 | .03398 | .00005 | .00016 | .00140 | .00026 | .00042 | .01342 | .00067 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00308** | W **.00294** |
| Stddev | .00063 | .00052 |
| %RSD | 20.343 | 17.554 |
| #1 | .00352 | .00331 |
| #2 | .00264 | .00258 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5631.7** | **71209.** | **3144.8** |
| Stddev | 2.2 | 85. | 22.1 |
| %RSD | .03910 | .11962 | .70237 |
| #1 | 5633.3 | 71148. | 3129.2 |
| #2 | 5630.2 | 71269. | 3160.5 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 1:52:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01130** | **.10431** | **.01544** | **.10145** | **.01161** | **.00082** | **.10727** | **.19575** | **.00514** | **.01075** | **.00994** |
| Stddev | .00016 | .00024 | .00085 | .00034 | .00049 | .00009 | .00265 | .00335 | .00004 | .00017 | .00022 |
| %RSD | 1.4076 | .22578 | 5.4753 | .33669 | 4.2007 | 10.858 | 2.4666 | 1.7114 | .75990 | 1.5867 | 2.1641 |
| #1 | .01141 | .10415 | .01484 | .10169 | .01195 | .00075 | .10914 | .19812 | .00517 | .01087 | .01010 |
| #2 | .01119 | .10448 | .01604 | .10121 | .01126 | .00088 | .10540 | .19338 | .00511 | .01063 | .00979 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01463** | W **.07972** | W **3.8968** | W **.00759** | **.21706** | **.01063** | **.01918** | W **1.2293** | **.04121** | **2.9163** | **.01013** |
| Stddev | .00021 | .00502 | .0060 | .00004 | .00334 | .00007 | .00054 | .0048 | .00014 | .0109 | .00025 |
| %RSD | 1.4616 | 6.2948 | .15277 | .54113 | 1.5404 | .61496 | 2.8028 | .39403 | .33971 | .37485 | 2.4666 |
| #1 | .01478 | .07617 | 3.8926 | .00757 | .21942 | .01068 | .01956 | 1.2259 | .04131 | 2.9240 | .00995 |
| #2 | .01447 | .08327 | 3.9010 | .00762 | .21469 | .01058 | .01880 | 1.2327 | .04111 | 2.9085 | .01030 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | 3.0000 | .01000 | | | | 1.0000 | | | |
| Range | | -20.000% | 20.000% | -20.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00697** | W **.01260** | **.01605** | **.43539** | **.09628** | **.01064** | **.01723** | **.00968** | **.01678** | **.05766** | **.00954** |
| Stddev | .00027 | .00080 | .00005 | .02668 | .00048 | .00011 | .00019 | .00033 | .00005 | .02248 | .00071 |
| %RSD | 3.8235 | 6.3860 | .30101 | 6.1271 | .49672 | 1.0084 | 1.1103 | 3.4249 | .27827 | 38.982 | 7.4308 |
| #1 | -.00678 | .01203 | .01609 | .45426 | .09661 | .01056 | .01710 | .00945 | .01675 | .07356 | .00904 |
| #2 | -.00716 | .01317 | .01602 | .41653 | .09594 | .01071 | .01737 | .00992 | .01682 | .04177 | .01004 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | 20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02254** | **.01508** |
| Stddev | .00039 | .00009 |
| %RSD | 1.7330 | .60128 |
| #1 | .02281 | .01515 |
| #2 | .02226 | .01502 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5500.3** | **69365.** | **3103.9** |
| Stddev | 10.0 | 90. | 36.6 |
| %RSD | .18201 | .12974 | 1.1789 |
| #1 | 5493.3 | 69301. | 3129.8 |
| #2 | 5507.4 | 69429. | 3078.1 |

Sample Name: MB 280-174457/1-A Acquired: 5/18/2013 1:54:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **.00617** | **.00407** | **.00011** | **.00067** | **-.00010** | **.00211** | **.01263** | **.00000** |
| Stddev | .00088 | .00008 | .00135 | .00001 | .00020 | .00012 | .00132 | .00140 | .00002 |
| %RSD | 84.027 | 1.2774 | 33.128 | 9.5648 | 30.376 | 122.25 | 62.702 | 11.091 | 619.37 |
| #1 | .00042 | .00612 | .00502 | .00010 | .00081 | -.00001 | .00117 | .01164 | -.00001 |
| #2 | .00166 | .00623 | .00312 | .00012 | .00052 | -.00019 | .00304 | .01362 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00008** | **-.00048** | **.00672** | **.13290** | **-.00441** | **.01147** | **.00052** | **.00034** |
| Stddev | .00009 | .00004 | .00009 | .00283 | .06202 | .00006 | .00103 | .00009 | .00029 |
| %RSD | 41.100 | 47.504 | 18.750 | 42.150 | 46.667 | 1.4041 | 9.0117 | 16.602 | 86.667 |
| #1 | .00028 | .00005 | -.00042 | .00872 | .08904 | -.00437 | .01074 | .00046 | .00055 |
| #2 | .00015 | .00011 | -.00055 | .00472 | .17675 | -.00445 | .01220 | .00058 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06196** | **.00052** | F **.12622** | **-.00027** | **-.00554** | **.00253** | W **.00506** | **.00444** | **-.00022** |
| Stddev | .02769 | .00033 | .00053 | .00205 | .00047 | .00012 | .00097 | .01096 | .00002 |
| %RSD | 44.695 | 63.538 | .42272 | 765.40 | 8.4784 | 4.6898 | 19.243 | 246.84 | 9.3520 |
| #1 | .08154 | .00029 | .12660 | .00118 | -.00587 | .00244 | .00437 | .01219 | -.00023 |
| #2 | .04238 | .00075 | .12584 | -.00171 | -.00520 | .00261 | .00575 | -.00331 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | .00500 | | |
| Low Limit | | | -.01000 | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00107** | **.00016** | **-.00060** | **.00199** | **-.00022** | **.00303** | **.00047** |
| Stddev | .00002 | .00167 | .00022 | .00068 | .01474 | .00059 | .00006 | .00244 |
| %RSD | 9.4864 | 155.61 | 137.98 | 112.58 | 740.89 | 271.61 | 1.9037 | 514.61 |
| #1 | .00021 | .00226 | .00031 | -.00108 | .01241 | .00020 | .00299 | .00220 |
| #2 | .00018 | -.00011 | .00000 | -.00012 | -.00843 | -.00064 | .00307 | -.00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5560.9** | **70091.** | **3153.1** |
| Stddev | 7.8 | 108. | 15.8 |
| %RSD | .14105 | .15414 | .49996 |
| #1 | 5566.4 | 70014. | 3164.2 |
| #2 | 5555.3 | 70167. | 3141.9 |

Sample Name: LCS 280-174457/2-A Acquired: 5/18/2013 1:57:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05436** | **1.9245** | **.98801** | **1.0379** | **2.1615** | **.04415** | **2.0582** | **44.918** | **.10304** |
| Stddev | .00062 | .0017 | .00181 | .0015 | .0087 | .00019 | .0016 | .196 | .00005 |
| %RSD | 1.1324 | .08941 | .18318 | .14021 | .40044 | .42340 | .07620 | .43635 | .04458 |
| #1 | .05392 | 1.9257 | .98673 | 1.0369 | 2.1554 | .04429 | 2.0571 | 44.780 | .10307 |
| #2 | .05479 | 1.9233 | .98929 | 1.0390 | 2.1676 | .04402 | 2.0593 | 45.057 | .10301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49950** | **.19730** | **.24385** | F **.78239** | F **60.447** | F **1.1802** | **49.142** | **.49452** | **.97113** |
| Stddev | .00017 | .00036 | .00136 | .00445 | .467 | .0088 | .040 | .00030 | .00284 |
| %RSD | .03358 | .18306 | .55890 | .56864 | .77308 | .74329 | .08151 | .06121 | .29231 |
| #1 | .49938 | .19704 | .24481 | .77925 | 60.117 | 1.1739 | 49.113 | .49431 | .96912 |
| #2 | .49962 | .19755 | .24288 | .78554 | 60.778 | 1.1864 | 49.170 | .49473 | .97313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | 57.000 | 1.1400 | | | |
| Low Limit | | | | .88000 | 44.500 | .89000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **61.734** | **.48976** | **10.459** | **.49524** | **-.01902** | **.51221** | **2.0768** | F **8.5489** | **1.9361** |
| Stddev | .188 | .00092 | .004 | .00106 | .00171 | .00273 | .0007 | .0154 | .0074 |
| %RSD | .30503 | .18726 | .04285 | .21460 | 9.0120 | .53378 | .03565 | .17993 | .38257 |
| #1 | 61.601 | .48911 | 10.456 | .49599 | -.01781 | .51028 | 2.0762 | 8.5381 | 1.9309 |
| #2 | 61.867 | .49041 | 10.462 | .49449 | -.02024 | .51415 | 2.0773 | 8.5598 | 1.9414 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0578** | **1.0351** | **.98768** | **1.9687** | **2.0594** | **.49295** | **.49157** | **.45215** |
| Stddev | .0055 | .0029 | .00093 | .0021 | .0448 | .00005 | .00027 | .00117 |
| %RSD | .51970 | .27544 | .09465 | .10747 | 2.1751 | .00990 | .05430 | .25786 |
| #1 | 1.0539 | 1.0331 | .98702 | 1.9672 | 2.0277 | .49298 | .49176 | .45133 |
| #2 | 1.0616 | 1.0371 | .98834 | 1.9702 | 2.0910 | .49291 | .49138 | .45298 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5396.7** | **68161.** | **3106.1** |
| Stddev | 5.8 | 199. | 22.2 |
| %RSD | .10665 | .29204 | .71453 |
| #1 | 5400.8 | 68302. | 3121.8 |
| #2 | 5392.6 | 68020. | 3090.4 |

Sample Name: 280-42247-C-1-A Acquired: 5/18/2013 1:59:41 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **.23198** | **-.00058** | **.03531** | **.03730** | **-.00009** | **.00079** | **36.203** | **-.00009** |
| Stddev | .00052 | .00149 | .00097 | .00028 | .00090 | .00004 | .00068 | .102 | .00008 |
| %RSD | 59.578 | .64028 | 166.81 | .78114 | 2.4111 | 47.268 | 86.232 | .28218 | 97.211 |
| #1 | .00050 | .23304 | -.00126 | .03511 | .03667 | -.00012 | .00031 | 36.130 | -.00014 |
| #2 | .00124 | .23093 | .00010 | .03550 | .03794 | -.00006 | .00128 | 36.275 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00128** | **.00027** | **15.869** | **8.6900** | **.14065** | **13.184** | **.43085** | **.00220** |
| Stddev | .00020 | .00003 | .00072 | .001 | .0483 | .00251 | .055 | .00192 | .00024 |
| %RSD | 61.298 | 2.6620 | 264.00 | .00690 | .55591 | 1.7865 | .41516 | .44528 | 11.052 |
| #1 | .00019 | .00126 | .00078 | 15.868 | 8.7241 | .14243 | 13.223 | .43220 | .00237 |
| #2 | .00047 | .00131 | -.00024 | 15.870 | 8.6558 | .13888 | 13.145 | .42949 | .00203 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.3833** | **.00129** | **.43813** | **.00327** | **39.957** | **.00160** | **.00313** | **9.8151** | **-.00053** |
| Stddev | .0301 | .00004 | .00142 | .00027 | .042 | .00216 | .00264 | .0075 | .00003 |
| %RSD | .47144 | 2.8556 | .32335 | 8.3784 | .10433 | 135.38 | 84.313 | .07658 | 5.8794 |
| #1 | 6.3621 | .00126 | .43913 | .00307 | 39.987 | .00007 | .00126 | 9.8098 | -.00051 |
| #2 | 6.4046 | .00131 | .43713 | .00346 | 39.928 | .00312 | .00499 | 9.8204 | -.00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51097** | **.00977** | **.01454** | **.00074** | **-.00584** | **.00318** | **.00800** | **.00387** |
| Stddev | .00169 | .00277 | .00034 | .00036 | .03195 | .00091 | .00038 | .00192 |
| %RSD | .33048 | 28.390 | 2.3588 | 48.900 | 547.29 | 28.621 | 4.7483 | 49.607 |
| #1 | .50978 | .00781 | .01430 | .00048 | .01675 | .00254 | .00827 | .00522 |
| #2 | .51217 | .01173 | .01478 | .00099 | -.02843 | .00383 | .00773 | .00251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5509.6** | **69329.** | **3121.8** |
| Stddev | 6.3 | 280. | 11.1 |
| %RSD | .11346 | .40382 | .35629 |
| #1 | 5514.0 | 69131. | 3113.9 |
| #2 | 5505.2 | 69527. | 3129.6 |

Sample Name: sd 280-42247-C-1-A@5 Acquired: 5/18/2013 2:02:05 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.06458** | **-.00062** | **.00877** | **.00889** | **-.00003** | **.00097** | **9.1145** | **-.00016** |
| Stddev | .00020 | .00104 | .00326 | .00018 | .00027 | .00003 | .00131 | .0351 | .00002 |
| %RSD | 138.54 | 1.6115 | 523.97 | 2.0667 | 3.0733 | 81.729 | 134.93 | .38490 | 11.154 |
| #1 | .00000 | .06531 | .00169 | .00864 | .00908 | -.00001 | .00189 | 9.1393 | -.00018 |
| #2 | .00028 | .06384 | -.00293 | .00890 | .00869 | -.00005 | .00004 | 9.0897 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00025** | **-.00046** | **3.9729** | **2.2757** | **.03022** | **3.3118** | **.10876** | **.00075** |
| Stddev | .00001 | .00019 | .00014 | .0175 | .0118 | .00116 | .0045 | .00003 | .00008 |
| %RSD | 10.889 | 77.819 | 30.519 | .44133 | .51634 | 3.8322 | .13608 | .02949 | 10.300 |
| #1 | .00011 | .00038 | -.00036 | 3.9853 | 2.2840 | .03103 | 3.3150 | .10878 | .00070 |
| #2 | .00013 | .00011 | -.00055 | 3.9605 | 2.2674 | .02940 | 3.3087 | .10874 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5608** | **.00029** | **.10637** | **.00046** | **9.6262** | **.00183** | **.00231** | **2.4017** | **.00026** |
| Stddev | .0099 | .00005 | .00098 | .00062 | .0481 | .00046 | .00002 | .0144 | .00093 |
| %RSD | .63483 | 15.986 | .92558 | 136.40 | .49973 | 25.118 | .73348 | .60058 | 356.30 |
| #1 | 1.5678 | .00026 | .10707 | .00089 | 9.6602 | .00150 | .00232 | 2.4119 | .00092 |
| #2 | 1.5538 | .00032 | .10568 | .00002 | 9.5922 | .00215 | .00229 | 2.3915 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12829** | **.00411** | **.00360** | **.00020** | **.02401** | **.00187** | **.00524** | **.00267** |
| Stddev | .00079 | .00167 | .00004 | .00005 | .01506 | .00017 | .00000 | .00174 |
| %RSD | .61950 | 40.491 | 1.0995 | 22.598 | 62.734 | 8.8332 | .01446 | 65.068 |
| #1 | .12885 | .00529 | .00358 | .00017 | .03466 | .00175 | .00524 | .00390 |
| #2 | .12773 | .00294 | .00363 | .00024 | .01336 | .00199 | .00524 | .00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5543.5** | **70032.** | **3145.6** |
| Stddev | 20.8 | 29. | 31.7 |
| %RSD | .37494 | .04131 | 1.0072 |
| #1 | 5528.8 | 70052. | 3123.2 |
| #2 | 5558.1 | 70012. | 3168.0 |

Sample Name: 280-42247-C-1-B MS  Acquired: 5/18/2013 2:04:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05075** | **2.5799** | **.92834** | **1.0077** | **2.0382** | **.04071** | **1.9363** | **76.796** | **.09583** |
| Stddev | .00014 | .0051 | .00382 | .0020 | .0065 | .00004 | .0047 | .160 | .00005 |
| %RSD | .27761 | .19680 | .41200 | .19800 | .31988 | .10023 | .24345 | .20777 | .05200 |
| #1 | .05085 | 2.5835 | .93104 | 1.0092 | 2.0428 | .04068 | 1.9396 | 76.909 | .09586 |
| #2 | .05065 | 2.5763 | .92563 | 1.0063 | 2.0336 | .04074 | 1.9329 | 76.684 | .09579 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46008** | **.18429** | **.22877** | **16.314** | **64.358** | **1.2432** | **58.009** | **.87652** | **.90718** |
| Stddev | .00023 | .00023 | .00054 | .034 | .231 | .0017 | .074 | .00127 | .00081 |
| %RSD | .04921 | .12271 | .23783 | .21027 | .35921 | .13476 | .12693 | .14509 | .08926 |
| #1 | .46024 | .18445 | .22915 | 16.338 | 64.522 | 1.2420 | 58.061 | .87742 | .90775 |
| #2 | .45992 | .18413 | .22838 | 16.289 | 64.195 | 1.2444 | 57.957 | .87562 | .90661 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **64.662** | **.45231** | **10.027** | **.45942** | **40.444** | **.47882** | **1.9235** | **18.408** | **1.8124** |
| Stddev | .149 | .00000 | .010 | .00128 | .024 | .00383 | .0041 | .097 | .0007 |
| %RSD | .23096 | .00039 | .10219 | .27844 | .05925 | .79924 | .21445 | .52841 | .03727 |
| #1 | 64.767 | .45231 | 10.034 | .46032 | 40.460 | .48153 | 1.9264 | 18.477 | 1.8119 |
| #2 | 64.556 | .45231 | 10.020 | .45851 | 40.427 | .47611 | 1.9205 | 18.340 | 1.8129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4790** | **.95801** | **.93350** | **1.8250** | **1.9350** | **.46096** | **.45140** | **.42101** |
| Stddev | .0014 | .00226 | .00037 | .0019 | .0219 | .00138 | .00148 | .00413 |
| %RSD | .09308 | .23607 | .03947 | .10376 | 1.1291 | .29839 | .32741 | .98039 |
| #1 | 1.4800 | .95641 | .93376 | 1.8237 | 1.9196 | .46194 | .45245 | .42393 |
| #2 | 1.4781 | .95961 | .93324 | 1.8263 | 1.9505 | .45999 | .45036 | .41809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5413.9** | **69151.** | **3131.3** |
| Stddev | 13.5 | 55. | 22.4 |
| %RSD | .24850 | .07933 | .71604 |
| #1 | 5423.4 | 69112. | 3115.5 |
| #2 | 5404.4 | 69190. | 3147.2 |

Sample Name: 280-42247-C-1-C MSD Acquired: 5/18/2013 2:06:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05123** | **2.6806** | **.94940** | **1.0248** | **2.0671** | **.04133** | **1.9784** | **77.740** | **.09785** |
| Stddev | .00005 | .0035 | .00066 | .0034 | .0075 | .00014 | .0085 | .334 | .00012 |
| %RSD | .10474 | .13098 | .06980 | .32678 | .36155 | .33736 | .42756 | .42994 | .12338 |
| #1 | .05126 | 2.6781 | .94987 | 1.0225 | 2.0724 | .04143 | 1.9724 | 77.976 | .09776 |
| #2 | .05119 | 2.6831 | .94893 | 1.0272 | 2.0618 | .04123 | 1.9843 | 77.504 | .09793 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46884** | **.18800** | **.23108** | **16.561** | **65.261** | **1.2601** | **58.902** | **.89078** | **.91874** |
| Stddev | .00100 | .00077 | .00093 | .002 | .295 | .0057 | .004 | .00022 | .00268 |
| %RSD | .21336 | .41179 | .40219 | .01342 | .45267 | .45461 | .00668 | .02498 | .29196 |
| #1 | .46814 | .18745 | .23042 | 16.563 | 65.470 | 1.2642 | 58.899 | .89062 | .91684 |
| #2 | .46955 | .18854 | .23174 | 16.560 | 65.052 | 1.2561 | 58.905 | .89093 | .92063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **65.850** | **.46040** | **10.252** | **.47155** | **41.413** | **.48521** | **1.9687** | **18.736** | **1.8347** |
| Stddev | .160 | .00050 | .024 | .00062 | .118 | .00071 | .0011 | .016 | .0050 |
| %RSD | .24259 | .10781 | .23113 | .13109 | .28513 | .14684 | .05441 | .08346 | .27206 |
| #1 | 65.737 | .46005 | 10.235 | .47111 | 41.329 | .48572 | 1.9695 | 18.725 | 1.8312 |
| #2 | 65.963 | .46076 | 10.269 | .47198 | 41.496 | .48471 | 1.9680 | 18.747 | 1.8382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4961** | **.97476** | **.94530** | **1.8630** | **1.9454** | **.46927** | **.46010** | **.42391** |
| Stddev | .0069 | .00227 | .00025 | .0032 | .0111 | .00141 | .00022 | .00543 |
| %RSD | .45839 | .23264 | .02614 | .16995 | .57080 | .30005 | .04754 | 1.2809 |
| #1 | 1.5009 | .97637 | .94512 | 1.8608 | 1.9376 | .47026 | .46025 | .42775 |
| #2 | 1.4912 | .97316 | .94547 | 1.8653 | 1.9533 | .46827 | .45994 | .42007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5369.2** | **68614.** | **3126.0** |
| Stddev | 16.8 | 125. | 2.5 |
| %RSD | .31276 | .18157 | .07839 |
| #1 | 5381.0 | 68702. | 3124.3 |
| #2 | 5357.3 | 68526. | 3127.8 |

Sample Name: 280-42247-C-2-A Acquired: 5/18/2013 2:08:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **-.00223** | **.00200** | **.02924** | **.07630** | **-.00009** | **-.00013** | **11.590** | **.00011** |
| Stddev | .00043 | .00030 | .00026 | .00009 | .00023 | .00003 | .00210 | .051 | .00009 |
| %RSD | 127.01 | 13.596 | 12.906 | .30235 | .30176 | 32.506 | 1632.7 | .43764 | 81.935 |
| #1 | .00065 | -.00202 | .00218 | .02931 | .07614 | -.00011 | -.00162 | 11.555 | .00018 |
| #2 | .00003 | -.00245 | .00182 | .02918 | .07646 | -.00007 | .00136 | 11.626 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00015** | **-.00009** | **10.055** | **4.1241** | **.09635** | **5.7414** | **.25571** | **.00191** |
| Stddev | .00023 | .00018 | .00102 | .007 | .0344 | .00028 | .0015 | .00051 | .00013 |
| %RSD | 155.37 | 120.13 | 1150.9 | .06735 | .83392 | .28545 | .02629 | .20074 | 6.9721 |
| #1 | -.00001 | .00002 | .00063 | 10.060 | 4.0998 | .09616 | 5.7425 | .25535 | .00182 |
| #2 | .00031 | .00027 | -.00081 | 10.050 | 4.1484 | .09655 | 5.7403 | .25607 | .00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.5979** | **.00136** | **2.4782** | **.00116** | **6.6466** | **.00128** | **.00323** | **10.999** | **-.00037** |
| Stddev | .0313 | .00012 | .0040 | .00110 | .0002 | .00006 | .00043 | .037 | .00017 |
| %RSD | .36385 | 8.5624 | .16161 | 94.805 | .00258 | 5.0490 | 13.424 | .33294 | 46.407 |
| #1 | 8.6200 | .00128 | 2.4810 | .00194 | 6.6467 | .00132 | .00292 | 11.025 | -.00049 |
| #2 | 8.5757 | .00144 | 2.4753 | .00038 | 6.6464 | .00123 | .00353 | 10.973 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12829** | **.00368** | **.00032** | **-.00057** | **.01825** | **.00087** | **.00493** | **.00302** |
| Stddev | .00022 | .00083 | .00047 | .00008 | .01313 | .00009 | .00009 | .00130 |
| %RSD | .17532 | 22.642 | 145.24 | 13.771 | 71.937 | 10.509 | 1.8489 | 43.097 |
| #1 | .12845 | .00427 | -.00001 | -.00062 | .02753 | .00080 | .00486 | .00394 |
| #2 | .12814 | .00309 | .00065 | -.00051 | .00896 | .00093 | .00499 | .00210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5555.5** | **69951.** | **3170.4** |
| Stddev | .1 | 169. | 10.3 |
| %RSD | .00190 | .24089 | .32419 |
| #1 | 5555.4 | 69832. | 3177.6 |
| #2 | 5555.6 | 70070. | 3163.1 |

Sample Name: 280-42247-C-3-A Acquired: 5/18/2013 2:11:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.18870** | **.00354** | **.04691** | **.04683** | **-.00011** | **-.00112** | **44.598** | **.00015** |
| Stddev | .00010 | .00032 | .00072 | .00019 | .00013 | .00002 | .00363 | .134 | .00006 |
| %RSD | 15.237 | .16702 | 20.384 | .39751 | .27227 | 22.557 | 323.86 | .30135 | 38.300 |
| #1 | .00061 | .18848 | .00405 | .04704 | .04692 | -.00009 | -.00369 | 44.503 | .00019 |
| #2 | .00076 | .18893 | .00303 | .04678 | .04674 | -.00012 | .00145 | 44.693 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.00046** | **-.00028** | **11.993** | **7.1534** | **.12752** | **14.979** | **.26721** | **.00102** |
| Stddev | .00003 | .00004 | .00027 | .017 | .0065 | .00175 | .043 | .00018 | .00001 |
| %RSD | 3.5114 | 8.8970 | 98.672 | .13902 | .09013 | 1.3722 | .28776 | .06899 | .93883 |
| #1 | .00082 | .00048 | -.00047 | 11.981 | 7.1488 | .12628 | 15.010 | .26734 | .00102 |
| #2 | .00086 | .00043 | -.00008 | 12.004 | 7.1579 | .12876 | 14.949 | .26708 | .00103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.985** | **.00236** | **.64458** | **.00132** | **47.586** | **.00156** | **.00112** | **8.5256** | **-.00051** |
| Stddev | .479 | .00023 | .00039 | .00228 | .033 | .00097 | .00064 | .0104 | .00028 |
| %RSD | 3.6922 | 9.7218 | .06057 | 173.34 | .06836 | 62.268 | 56.886 | .12234 | 54.647 |
| #1 | 12.646 | .00219 | .64485 | -.00030 | 47.563 | .00088 | .00157 | 8.5182 | -.00071 |
| #2 | 13.324 | .00252 | .64430 | .00293 | 47.609 | .00225 | .00067 | 8.5330 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43596** | **.00632** | **.00262** | **.00238** | **.01289** | **.00130** | **.00742** | **.00335** |
| Stddev | .00201 | .00024 | .00071 | .00023 | .00806 | .00061 | .00026 | .00230 |
| %RSD | .46010 | 3.8090 | 27.104 | 9.7034 | 62.554 | 46.742 | 3.4747 | 68.634 |
| #1 | .43454 | .00615 | .00212 | .00221 | .01859 | .00087 | .00760 | .00497 |
| #2 | .43737 | .00649 | .00312 | .00254 | .00719 | .00173 | .00723 | .00172 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5542.6** | **70114.** | **3182.4** |
| Stddev | 1.9 | 249. | 5.1 |
| %RSD | .03387 | .35509 | .16062 |
| #1 | 5541.3 | 69938. | 3178.8 |
| #2 | 5544.0 | 70290. | 3186.1 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 2:13:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **45.318** | **-.00366** | **.00123** | **.00044** | **.00002** | **1.0107** | **.02083** | **-.00069** | **.00216** | **.00003** | **-.00063** |
| Stddev | .00014 | .326 | .00100 | .00057 | .00040 | .00001 | .0010 | .00249 | .00000 | .00012 | .00014 | .00023 |
| %RSD | 158.00 | .71948 | 27.350 | 46.699 | 90.514 | 69.574 | .09483 | 11.954 | .05713 | 5.6584 | 539.59 | 36.035 |
| #1 | -.00001 | 45.087 | -.00296 | .00164 | .00073 | .00001 | 1.0100 | .01907 | -.00069 | .00225 | -.00007 | -.00047 |
| #2 | .00018 | 45.549 | -.00437 | .00082 | .00016 | .00002 | 1.0113 | .02259 | -.00069 | .00207 | .00012 | -.00079 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **37.399** | **.19288** | **-.00340** | **.02475** | **.00030** | **-.00152** | F **302.78** | **.00178** | **.01065** | **.00110** | **5.1087** | **.00326** |
| Stddev | .191 | .07378 | .00168 | .00287 | .00001 | .00028 | 1.00 | .00025 | .00006 | .00101 | .0187 | .00051 |
| %RSD | .50998 | 38.251 | 49.419 | 11.588 | 3.4690 | 18.521 | .33064 | 13.834 | .53925 | 91.926 | .36708 | 15.740 |
| #1 | 37.264 | .14071 | -.00459 | .02272 | .00029 | -.00132 | 302.07 | .00195 | .01060 | .00038 | 5.0954 | .00289 |
| #2 | 37.534 | .24505 | -.00221 | .02678 | .00031 | -.00172 | 303.49 | .00160 | .01069 | .00181 | 5.1219 | .00362 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00467** | **.01137** | **.00028** | **.00046** | **5.1355** | **.00295** | **-.00120** | **10.064** | **-.00036** | **.00399** | **-.05884** |
| Stddev | .00738 | .00032 | .00054 | .00005 | .0030 | .00047 | .00035 | .014 | .00008 | .00029 | .00073 |
| %RSD | 158.17 | 2.7966 | 193.41 | 10.569 | .05928 | 15.907 | 29.139 | .14191 | 21.342 | 7.1889 | 1.2461 |
| #1 | -.00055 | .01114 | -.00010 | .00042 | 5.1333 | .00262 | -.00145 | 10.054 | -.00041 | .00419 | -.05833 |
| #2 | .00989 | .01159 | .00066 | .00049 | 5.1376 | .00328 | -.00095 | 10.074 | -.00030 | .00379 | -.05936 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5461.5** | **69027.** | **3189.9** |
| Stddev | 5.4 | 214. | 16.3 |
| %RSD | .09947 | .31056 | .51074 |
| #1 | 5465.4 | 68876. | 3201.4 |
| #2 | 5457.7 | 69179. | 3178.4 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 2:16:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50227** | **.49616** | **.98821** | **.51053** | **.53072** | F **.43317** | **.00330** | **4.5146** | **.49776** | **.50381** | **.48847** | **.48530** |
| Stddev | .00036 | .00035 | .00363 | .00029 | .00520 | .00406 | .00161 | .0002 | .00104 | .00063 | .00061 | .00125 |
| %RSD | .07086 | .07154 | .36691 | .05704 | .97984 | .93763 | 48.648 | .00419 | .20921 | .12552 | .12494 | .25687 |
| #1 | .50201 | .49591 | .98565 | .51073 | .53440 | .43605 | .00217 | 4.5147 | .49850 | .50425 | .48890 | .48618 |
| #2 | .50252 | .49641 | .99078 | .51032 | .52705 | .43030 | .00444 | 4.5145 | .49702 | .50336 | .48804 | .48442 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9269** | F **58.882** | F **1.1668** | **19.520** | **.49646** | **.47917** | F **5.5432** | **.49648** | **1.0083** | **.99439** | **-.01845** | **1.0003** |
| Stddev | .0123 | .564 | .0079 | .033 | .00048 | .00029 | .0537 | .00025 | .0037 | .00129 | .00270 | .0004 |
| %RSD | .63759 | .95791 | .67911 | .16753 | .09600 | .06091 | .96963 | .05125 | .37034 | .12965 | 14.647 | .04304 |
| #1 | 1.9356 | 59.281 | 1.1724 | 19.543 | .49680 | .47938 | 5.5812 | .49666 | 1.0109 | .99530 | -.02036 | 1.0000 |
| #2 | 1.9182 | 58.484 | 1.1612 | 19.497 | .49612 | .47896 | 5.5052 | .49630 | 1.0057 | .99347 | -.01654 | 1.0006 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0109** | F **4.1168** | **.95793** | **.52154** | **.00269** | **.49129** | **.97077** | **.01930** | **.48598** | **.49004** | **.46332** |
| Stddev | .0084 | .0143 | .00263 | .00447 | .00114 | .00027 | .00179 | .02624 | .00214 | .00025 | .00194 |
| %RSD | .82811 | .34616 | .27461 | .85691 | 42.386 | .05577 | .18422 | 135.94 | .44008 | .05154 | .41855 |
| #1 | 1.0169 | 4.1269 | .95979 | .52470 | .00349 | .49148 | .97203 | .00075 | .48749 | .49022 | .46194 |
| #2 | 1.0050 | 4.1068 | .95607 | .51838 | .00188 | .49109 | .96950 | .03785 | .48446 | .48986 | .46469 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5566.0** | **70161.** | **3207.1** |
| Stddev | 17.7 | 289. | 30.1 |
| %RSD | .31772 | .41162 | .93801 |
| #1 | 5553.5 | 69957. | 3185.8 |
| #2 | 5578.5 | 70365. | 3228.4 |

Sample Name: CCB Acquired: 5/18/2013 2:18:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **.00414** | **-.00029** | **-.00017** | **.00018** | **-.00006** | **.00448** | **.00934** | **.00004** | **.00047** | **.00025** |
| Stddev | .00095 | .00023 | .00118 | .00006 | .00051 | .00001 | .00260 | .00008 | .00002 | .00012 | .00011 |
| %RSD | 129.63 | 5.4810 | 404.26 | 32.790 | 275.52 | 25.524 | 58.047 | .89031 | 38.958 | 26.591 | 46.201 |
| #1 | .00006 | .00430 | .00054 | -.00013 | -.00017 | -.00007 | .00264 | .00940 | .00005 | .00038 | .00017 |
| #2 | .00140 | .00398 | -.00113 | -.00021 | .00054 | -.00005 | .00631 | .00928 | .00003 | .00055 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **.00584** | **.09041** | F **-.00548** | W **.01236** | **.00021** | **.00064** | **-.03253** | **.00069** | **.00372** | **-.00122** |
| Stddev | .00028 | .00032 | .00567 | .00305 | .00121 | .00001 | .00009 | .00981 | .00004 | .00136 | .00001 |
| %RSD | 40.582 | 5.5505 | 6.2712 | 55.618 | 9.8113 | 5.3153 | 14.319 | 30.169 | 6.1611 | 36.670 | .55370 |
| #1 | -.00049 | .00561 | .08640 | -.00332 | .01322 | .00020 | .00070 | -.02559 | .00066 | .00468 | -.00121 |
| #2 | -.00089 | .00607 | .09442 | -.00764 | .01151 | .00022 | .00057 | -.03947 | .00072 | .00275 | -.00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | .01070 | | | | | | |
| Low Limit | | | | -.00522 | -.01070 | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02935** | **.00207** | **.00134** | **.01670** | **-.00053** | **-.00001** | **.00114** | **.00031** | **-.00077** | **.04092** | **.00042** |
| Stddev | .00284 | .00123 | .00110 | .00864 | .00014 | .00007 | .00068 | .00012 | .00051 | .01184 | .00003 |
| %RSD | 9.6682 | 59.554 | 82.564 | 51.720 | 26.793 | 622.47 | 60.162 | 39.391 | 65.727 | 28.946 | 6.9919 |
| #1 | -.02734 | .00294 | .00056 | .01059 | -.00063 | -.00006 | .00162 | .00023 | -.00041 | .04929 | .00040 |
| #2 | -.03135 | .00120 | .00212 | .02281 | -.00043 | .00004 | .00065 | .00040 | -.00113 | .03254 | .00044 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00253** | W **.00386** |
| Stddev | .00008 | .00113 |
| %RSD | 3.0459 | 29.293 |
| #1 | .00247 | .00306 |
| #2 | .00258 | .00466 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5645.8** | **71558.** | **3186.5** |
| Stddev | 10.7 | 173. | 16.2 |
| %RSD | .18899 | .24189 | .50859 |
| #1 | 5653.4 | 71681. | 3197.9 |
| #2 | 5638.3 | 71436. | 3175.0 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 2:20:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01131** | **.10377** | **.01518** | **.10131** | **.01132** | W **.00075** | **.10527** | **.18801** | **.00500** | **.01078** | **.01031** |
| Stddev | .00065 | .00025 | .00184 | .00014 | .00012 | .00005 | .00261 | .00704 | .00007 | .00021 | .00015 |
| %RSD | 5.7195 | .24339 | 12.140 | .14152 | 1.0451 | 6.3756 | 2.4781 | 3.7439 | 1.4307 | 1.9725 | 1.4467 |
| #1 | .01085 | .10359 | .01648 | .10121 | .01140 | .00071 | .10712 | .19298 | .00505 | .01093 | .01042 |
| #2 | .01177 | .10394 | .01387 | .10142 | .01124 | .00078 | .10343 | .18303 | .00495 | .01063 | .01021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01435** | **.08201** | W **3.7639** | **.00921** | **.20772** | **.01035** | **.01959** | **1.1551** | **.04091** | **2.9293** | **.00913** |
| Stddev | .00072 | .00288 | .0220 | .00092 | .00059 | .00004 | .00008 | .0134 | .00038 | .0015 | .00194 |
| %RSD | 4.9860 | 3.5089 | .58323 | 9.9711 | .28419 | .38086 | .38609 | 1.1564 | .91730 | .05061 | 21.221 |
| #1 | .01486 | .08404 | 3.7794 | .00986 | .20730 | .01038 | .01954 | 1.1645 | .04117 | 2.9282 | .01051 |
| #2 | .01385 | .07997 | 3.7484 | .00856 | .20814 | .01032 | .01964 | 1.1456 | .04064 | 2.9303 | .00776 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02808** | **.01198** | **.01263** | W **.39935** | **.09534** | **.01069** | **.01611** | **.00980** | **.01550** | **.04870** | **.00995** |
| Stddev | .00434 | .00055 | .00439 | .01462 | .00024 | .00002 | .00083 | .00002 | .00106 | .00110 | .00040 |
| %RSD | 15.462 | 4.5792 | 34.717 | 3.6617 | .25170 | .21974 | 5.1330 | .24793 | 6.8092 | 2.2584 | 3.9997 |
| #1 | -.03115 | .01159 | .00953 | .38901 | .09551 | .01068 | .01552 | .00982 | .01475 | .04792 | .00967 |
| #2 | -.02501 | .01237 | .01573 | .40970 | .09517 | .01071 | .01669 | .00978 | .01625 | .04948 | .01023 |
| Check ? | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .50000 | | | | | | | |
| Range | | | | -20.000% | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02263** | **.01553** |
| Stddev | .00004 | .00143 |
| %RSD | .16299 | 9.1823 |
| #1 | .02260 | .01654 |
| #2 | .02265 | .01452 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5593.5** | **70848.** | **3208.3** |
| Stddev | 1.6 | 258. | 18.9 |
| %RSD | .02918 | .36444 | .58779 |
| #1 | 5592.3 | 70665. | 3194.9 |
| #2 | 5594.6 | 71031. | 3221.6 |

Sample Name: 280-42247-C-4-A Acquired: 5/18/2013 2:23:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **-.00643** | **.00114** | **.02395** | **.03076** | **.00003** | **-.00037** | **23.590** | **.00014** |
| Stddev | .00007 | .00063 | .00017 | .00033 | .00030 | .00017 | .00012 | .046 | .00007 |
| %RSD | 14.430 | 9.8415 | 14.573 | 1.3751 | .96394 | 628.61 | 31.984 | .19319 | 51.704 |
| #1 | .00042 | -.00599 | .00102 | .02418 | .03097 | .00014 | -.00029 | 23.622 | .00019 |
| #2 | .00052 | -.00688 | .00126 | .02371 | .03055 | -.00009 | -.00046 | 23.557 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **.00041** | **.00040** | **26.860** | **4.1996** | **.34939** | **13.857** | **.81474** | **-.00016** |
| Stddev | .00006 | .00019 | .00005 | .073 | .0917 | .00052 | .010 | .00063 | .00002 |
| %RSD | 29.236 | 46.092 | 12.202 | .27044 | 2.1838 | .15002 | .07102 | .07705 | 14.855 |
| #1 | -.00025 | .00028 | .00043 | 26.911 | 4.1348 | .34976 | 13.864 | .81429 | -.00018 |
| #2 | -.00016 | .00055 | .00036 | 26.808 | 4.2645 | .34902 | 13.850 | .81518 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.0257** | **10.602** | **.00119** | **2.3100** | **.00289** | **44.709** | **.00079** | **.00373** | **11.978** |
| Stddev | .0498 | .311 | .00008 | .0076 | .00116 | .022 | .00106 | .00095 | .000 |
| %RSD | .55127 | 2.9369 | 6.8360 | .32811 | 40.313 | .04990 | 135.22 | 25.609 | .00342 |
| #1 | 9.0609 | 10.822 | .00113 | 2.3047 | .00206 | 44.725 | .00003 | .00305 | 11.979 |
| #2 | 8.9905 | 10.382 | .00125 | 2.3154 | .00371 | 44.694 | .00154 | .00440 | 11.978 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 9.0000 | | | | | | | | |
| Low Limit | -.50000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **.17026** | **.01155** | **.00056** | **.00034** | **.03631** | **.00114** | **.00632** | **.00388** |
| Stddev | .00088 | .00015 | .00092 | .00070 | .00075 | .02380 | .00077 | .00058 | .00170 |
| %RSD | 129.09 | .08659 | 7.9317 | 124.56 | 224.66 | 65.549 | 68.183 | 9.1848 | 43.867 |
| #1 | -.00130 | .17016 | .01090 | .00105 | -.00020 | .01948 | .00059 | .00673 | .00508 |
| #2 | -.00006 | .17037 | .01220 | .00007 | .00087 | .05315 | .00168 | .00591 | .00268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5574.2** | **70046.** | **3209.9** |
| Stddev | 1.0 | 174. | 14.5 |
| %RSD | .01732 | .24891 | .45180 |
| #1 | 5574.9 | 69923. | 3199.7 |
| #2 | 5573.6 | 70169. | 3220.2 |

Sample Name: 280-42247-C-5-A Acquired: 5/18/2013 2:25:51 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **.03676** | **.00198** | **.01782** | **.05991** | **-.00003** | **-.00040** | **5.1230** | **.00003** |
| Stddev | .00011 | .00009 | .00123 | .00039 | .00009 | .00001 | .00211 | .0157 | .00027 |
| %RSD | 15.190 | .24701 | 62.210 | 2.1717 | .15071 | 22.115 | 529.86 | .30694 | 1055.3 |
| #1 | .00081 | .03670 | .00111 | .01754 | .05985 | -.00003 | .00109 | 5.1341 | -.00017 |
| #2 | .00065 | .03683 | .00285 | .01809 | .05997 | -.00002 | -.00189 | 5.1119 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00386** | **.00034** | **-.00017** | **2.2373** | **2.4259** | **-.00295** | **3.7636** | **.42688** | **.00012** |
| Stddev | .00001 | .00002 | .00025 | .0087 | .0212 | .00002 | .0014 | .00079 | .00010 |
| %RSD | .30812 | 6.2119 | 145.30 | .38721 | .87490 | .67503 | .03741 | .18591 | 83.439 |
| #1 | .00386 | .00035 | .00000 | 2.2434 | 2.4409 | -.00294 | 3.7627 | .42744 | .00005 |
| #2 | .00387 | .00032 | -.00035 | 2.2312 | 2.4109 | -.00297 | 3.7646 | .42632 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.918** | **.00332** | **.11922** | **.00066** | **12.148** | **.00261** | **-.00034** | **5.5362** | **-.00105** |
| Stddev | .564 | .00011 | .00236 | .00006 | .008 | .00000 | .00083 | .0018 | .00026 |
| %RSD | 4.3631 | 3.2506 | 1.9757 | 9.0389 | .06624 | .19007 | 248.34 | .03206 | 24.629 |
| #1 | 12.520 | .00339 | .12088 | .00061 | 12.143 | .00261 | .00025 | 5.5350 | -.00087 |
| #2 | 13.317 | .00324 | .11755 | .00070 | 12.154 | .00261 | -.00093 | 5.5375 | -.00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05929** | **.00037** | **.00049** | **-.00073** | **.02125** | **.00041** | **.00552** | **.00195** |
| Stddev | .00018 | .00154 | .00056 | .00030 | .00465 | .00060 | .00041 | .00050 |
| %RSD | .30356 | 416.58 | 115.43 | 40.552 | 21.899 | 145.76 | 7.4275 | 25.819 |
| #1 | .05941 | .00146 | .00009 | -.00094 | .01796 | -.00001 | .00581 | .00159 |
| #2 | .05916 | -.00072 | .00088 | -.00052 | .02454 | .00084 | .00523 | .00231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5654.0** | **71486.** | **3249.5** |
| Stddev | 2.7 | 213. | .3 |
| %RSD | .04704 | .29842 | .00882 |
| #1 | 5652.2 | 71336. | 3249.7 |
| #2 | 5655.9 | 71637. | 3249.3 |

Sample Name: 280-42247-C-6-A Acquired: 5/18/2013 2:28:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00172** | **1.0074** | **.00107** | **.28613** | **.02682** | **.00037** | **.00082** | **36.111** | **.00031** |
| Stddev | .00044 | .0017 | .00144 | .00028 | .00027 | .00003 | .00068 | .128 | .00003 |
| %RSD | 25.244 | .16990 | 134.46 | .09810 | 1.0169 | 7.4893 | 82.218 | .35499 | 10.761 |
| #1 | .00142 | 1.0062 | .00209 | .28593 | .02662 | .00039 | .00035 | 36.021 | .00029 |
| #2 | .00203 | 1.0086 | .00005 | .28633 | .02701 | .00035 | .00130 | 36.202 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04861** | **.00124** | **.00114** | **9.7821** | **9.9757** | **.06997** | **24.879** | **6.5015** | **-.00020** |
| Stddev | .00018 | .00007 | .00033 | .0149 | .1135 | .00106 | .011 | .0655 | .00005 |
| %RSD | .37767 | 5.2911 | 29.019 | .15201 | 1.1373 | 1.5123 | .04316 | 1.0080 | 22.691 |
| #1 | .04848 | .00119 | .00091 | 9.7926 | 10.056 | .06922 | 24.887 | 6.4552 | -.00024 |
| #2 | .04873 | .00128 | .00138 | 9.7716 | 9.8954 | .07072 | 24.872 | 6.5479 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.549** | **.03415** | **.07367** | **.00197** | **92.876** | **.00003** | **-.00060** | **5.7562** | **-.00163** |
| Stddev | .341 | .00014 | .00018 | .00031 | .228 | .00208 | .00140 | .0187 | .00065 |
| %RSD | .73221 | .40149 | .24702 | 15.972 | .24577 | 6853.7 | 235.19 | .32446 | 40.132 |
| #1 | 46.308 | .03425 | .07354 | .00175 | 92.715 | -.00144 | .00040 | 5.7430 | -.00209 |
| #2 | 46.790 | .03405 | .07380 | .00219 | 93.037 | .00150 | -.00159 | 5.7694 | -.00116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25864** | **.00495** | **.00057** | **-.00317** | **-.01194** | **-.00047** | **.13721** | **.00208** |
| Stddev | .00097 | .00170 | .00047 | .00092 | .01864 | .00016 | .00099 | .00166 |
| %RSD | .37461 | 34.327 | 81.669 | 29.075 | 156.13 | 34.403 | .72007 | 79.768 |
| #1 | .25796 | .00615 | .00024 | -.00252 | -.02512 | -.00059 | .13791 | .00091 |
| #2 | .25933 | .00375 | .00090 | -.00382 | .00124 | -.00036 | .13651 | .00326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5650.0** | **71503.** | **3250.5** |
| Stddev | 7.7 | 44. | 16.6 |
| %RSD | .13599 | .06085 | .51117 |
| #1 | 5655.4 | 71533. | 3238.8 |
| #2 | 5644.5 | 71472. | 3262.3 |

Sample Name: 280-42247-C-7-A Acquired: 5/18/2013 2:30:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **.00861** | **.00300** | **.03719** | **.03206** | **-.00010** | **.00069** | **37.543** | **.00010** |
| Stddev | .00015 | .00173 | .00145 | .00062 | .00053 | .00013 | .00161 | .071 | .00004 |
| %RSD | 12.332 | 20.115 | 48.432 | 1.6577 | 1.6659 | 127.60 | 231.84 | .18820 | 43.302 |
| #1 | .00128 | .00738 | .00197 | .03675 | .03244 | -.00001 | .00183 | 37.593 | .00007 |
| #2 | .00108 | .00983 | .00403 | .03763 | .03168 | -.00019 | -.00044 | 37.493 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00026** | **.00014** | **11.572** | **9.1100** | **.15573** | **12.963** | **.22951** | **.00051** |
| Stddev | .00017 | .00005 | .00055 | .039 | .0522 | .00131 | .013 | .00005 | .00002 |
| %RSD | 52.107 | 19.565 | 398.97 | .33550 | .57244 | .83859 | .10398 | .02272 | 2.9636 |
| #1 | .00043 | .00029 | .00053 | 11.599 | 9.1469 | .15666 | 12.973 | .22947 | .00052 |
| #2 | .00020 | .00022 | -.00025 | 11.544 | 9.0731 | .15481 | 12.954 | .22955 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.8355** | **.00126** | **.62978** | **.00204** | **35.328** | **.00178** | **.00148** | **7.5610** | **.00203** |
| Stddev | .0136 | .00024 | .00247 | .00100 | .100 | .00123 | .00167 | .0406 | .00094 |
| %RSD | .19839 | 18.936 | .39225 | 48.955 | .28213 | 68.832 | 112.77 | .53636 | 46.177 |
| #1 | 6.8451 | .00143 | .62803 | .00134 | 35.258 | .00091 | .00030 | 7.5897 | .00137 |
| #2 | 6.8260 | .00109 | .63152 | .00275 | 35.399 | .00265 | .00266 | 7.5324 | .00269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54052** | **.00563** | **.00078** | **.00038** | **.03694** | **.00081** | **.00515** | **.00432** |
| Stddev | .00134 | .00090 | .00005 | .00003 | .01694 | .00039 | .00051 | .00261 |
| %RSD | .24702 | 15.999 | 6.5086 | 7.1261 | 45.866 | 47.912 | 9.8884 | 60.403 |
| #1 | .54146 | .00627 | .00074 | .00040 | .04892 | .00109 | .00479 | .00247 |
| #2 | .53957 | .00500 | .00081 | .00036 | .02496 | .00054 | .00551 | .00616 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5563.1** | **70454.** | **3199.1** |
| Stddev | 10.5 | 231. | 8.3 |
| %RSD | .18864 | .32819 | .25904 |
| #1 | 5570.5 | 70290. | 3193.2 |
| #2 | 5555.7 | 70617. | 3205.0 |

Sample Name: 280-42247-C-8-A Acquired: 5/18/2013 2:33:14 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **.34755** | **.00317** | **.05232** | **.03810** | **-.00007** | **.00111** | **39.892** | **.00016** |
| Stddev | .00086 | .00196 | .00036 | .00022 | .00013 | .00002 | .00187 | .066 | .00006 |
| %RSD | 89.646 | .56294 | 11.331 | .42697 | .34223 | 23.745 | 168.10 | .16556 | 37.353 |
| #1 | .00157 | .34894 | .00342 | .05217 | .03819 | -.00006 | -.00021 | 39.939 | .00012 |
| #2 | .00035 | .34617 | .00292 | .05248 | .03801 | -.00008 | .00243 | 39.845 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00381** | **.00131** | **1.8330** | **10.461** | **.17055** | **12.423** | **.10948** | **.00103** |
| Stddev | .00002 | .00007 | .00048 | .0001 | .109 | .00033 | .002 | .00040 | .00012 |
| %RSD | 5.6240 | 1.8020 | 36.844 | .00522 | 1.0424 | .19160 | .01525 | .36593 | 11.973 |
| #1 | .00041 | .00385 | .00166 | 1.8329 | 10.538 | .17078 | 12.422 | .10977 | .00094 |
| #2 | .00038 | .00376 | .00097 | 1.8331 | 10.384 | .17032 | 12.425 | .10920 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.1946** | **.00255** | **.38458** | **.00068** | **30.341** | **.00258** | **.00110** | **6.1364** | **.00136** |
| Stddev | .0156 | .00004 | .00336 | .00042 | .016 | .00007 | .00682 | .0320 | .00026 |
| %RSD | .30086 | 1.7294 | .87429 | 61.678 | .05259 | 2.5516 | 618.78 | .52187 | 19.251 |
| #1 | 5.2057 | .00252 | .38220 | .00098 | 30.330 | .00253 | .00593 | 6.1137 | .00154 |
| #2 | 5.1836 | .00258 | .38696 | .00039 | 30.353 | .00262 | -.00372 | 6.1590 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59918** | **.00168** | **.01394** | **.00107** | **.01082** | **.00345** | **.00968** | **.00536** |
| Stddev | .00295 | .00190 | .00086 | .00162 | .04433 | .00085 | .00079 | .00189 |
| %RSD | .49201 | 113.25 | 6.1923 | 151.40 | 409.81 | 24.638 | 8.1837 | 35.169 |
| #1 | .60127 | .00033 | .01455 | -.00008 | .04217 | .00405 | .00912 | .00403 |
| #2 | .59710 | .00302 | .01333 | .00221 | -.02053 | .00285 | .01024 | .00669 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5602.4** | **71026.** | **3216.6** |
| Stddev | 15.4 | 223. | 22.5 |
| %RSD | .27464 | .31351 | .70059 |
| #1 | 5591.5 | 70868. | 3200.6 |
| #2 | 5613.3 | 71183. | 3232.5 |

Sample Name: 280-42247-C-9-A Acquired: 5/18/2013 2:35:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **-.00748** | **.00206** | **.03089** | **.02110** | **-.00009** | **.00052** | **27.379** | **.00018** |
| Stddev | .00004 | .00070 | .00067 | .00009 | .00054 | .00008 | .00156 | .043 | .00004 |
| %RSD | 4.5386 | 9.4000 | 32.527 | .28009 | 2.5557 | 89.974 | 299.52 | .15768 | 22.078 |
| #1 | .00086 | -.00698 | .00159 | .03095 | .02148 | -.00015 | -.00058 | 27.410 | .00021 |
| #2 | .00080 | -.00797 | .00254 | .03083 | .02072 | -.00003 | .00163 | 27.348 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00033** | **.00036** | **20.322** | **6.8835** | **.12185** | **12.976** | **.51924** | **.00035** |
| Stddev | .00008 | .00008 | .00011 | .047 | .0011 | .00027 | .015 | .00060 | .00031 |
| %RSD | 42.965 | 24.281 | 30.971 | .23183 | .01593 | .22082 | .11540 | .11625 | 88.483 |
| #1 | .00025 | .00039 | .00028 | 20.356 | 6.8842 | .12204 | 12.986 | .51967 | .00056 |
| #2 | .00014 | .00028 | .00044 | 20.289 | 6.8827 | .12166 | 12.965 | .51882 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.159** | **.00122** | **.99349** | **.00135** | **37.453** | **.00063** | **.00207** | **9.8191** | **.00067** |
| Stddev | .550 | .00025 | .00095 | .00103 | .008 | .00020 | .00026 | .0345 | .00063 |
| %RSD | 3.8813 | 20.197 | .09589 | 76.191 | .02132 | 31.427 | 12.474 | .35179 | 93.917 |
| #1 | 14.548 | .00105 | .99281 | .00062 | 37.447 | .00049 | .00225 | 9.8435 | .00023 |
| #2 | 13.771 | .00139 | .99416 | .00208 | 37.459 | .00077 | .00189 | 9.7947 | .00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38329** | **.00939** | **.00027** | **.00116** | **.01511** | **.00045** | **.00452** | **.00456** |
| Stddev | .00042 | .00187 | .00031 | .00092 | .00527 | .00026 | .00034 | .00407 |
| %RSD | .10834 | 19.867 | 114.47 | 79.749 | 34.867 | 58.971 | 7.4608 | 89.347 |
| #1 | .38359 | .00807 | .00005 | .00050 | .01884 | .00026 | .00428 | .00168 |
| #2 | .38300 | .01071 | .00049 | .00181 | .01139 | .00064 | .00476 | .00743 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5597.0** | **70649.** | **3213.3** |
| Stddev | 12.0 | 258. | 6.3 |
| %RSD | .21509 | .36557 | .19606 |
| #1 | 5605.6 | 70466. | 3208.9 |
| #2 | 5588.5 | 70832. | 3217.8 |

Sample Name: 280-42247-C-10-A Acquired: 5/18/2013 2:38:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **1.0995** | **.00218** | **.01573** | **.02592** | **.00102** | **.00263** | **26.406** | **.00020** |
| Stddev | .00023 | .0004 | .00058 | .00007 | .00030 | .00006 | .00081 | .149 | .00010 |
| %RSD | 11.433 | .03307 | 26.743 | .43457 | 1.1516 | 5.8636 | 30.612 | .56610 | 50.708 |
| #1 | .00183 | 1.0992 | .00259 | .01568 | .02571 | .00098 | .00206 | 26.301 | .00028 |
| #2 | .00215 | 1.0998 | .00177 | .01578 | .02613 | .00106 | .00320 | 26.512 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07699** | **.00061** | **.00094** | **3.9975** | **3.5430** | **.02110** | **16.467** | **9.8726** | **.00007** |
| Stddev | .00009 | .00009 | .00038 | .0141 | .0191 | .00248 | .030 | .0147 | .00004 |
| %RSD | .11520 | 15.306 | 40.271 | .35196 | .53759 | 11.761 | .17919 | .14913 | 50.826 |
| #1 | .07693 | .00055 | .00067 | 3.9876 | 3.5296 | .02285 | 16.488 | 9.8830 | .00005 |
| #2 | .07706 | .00068 | .00120 | 4.0075 | 3.5565 | .01934 | 16.446 | 9.8622 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.088** | **.04417** | **.08621** | **.00770** | **67.418** | **.00108** | **.00058** | **7.0084** | **-.00002** |
| Stddev | .506 | .00003 | .00064 | .00046 | .027 | .00016 | .00163 | .0562 | .00038 |
| %RSD | 3.3533 | .06728 | .74702 | 5.9362 | .04051 | 15.002 | 283.33 | .80216 | 1656.6 |
| #1 | 14.730 | .04419 | .08666 | .00737 | 67.437 | .00119 | .00173 | 6.9687 | -.00029 |
| #2 | 15.446 | .04415 | .08575 | .00802 | 67.399 | .00097 | -.00058 | 7.0482 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18361** | **.00055** | **.00439** | **-.00567** | **.00788** | **-.00173** | **.17157** | **.00238** |
| Stddev | .00000 | .00016 | .00008 | .00133 | .01782 | .00014 | .00176 | .00077 |
| %RSD | .00119 | 30.135 | 1.8205 | 23.445 | 226.21 | 8.1057 | 1.0258 | 32.217 |
| #1 | .18361 | .00043 | .00445 | -.00473 | -.00472 | -.00163 | .17032 | .00183 |
| #2 | .18361 | .00066 | .00433 | -.00661 | .02048 | -.00183 | .17281 | .00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5660.9** | **71415.** | **3263.6** |
| Stddev | .6 | 280. | 2.1 |
| %RSD | .00978 | .39191 | .06302 |
| #1 | 5660.5 | 71217. | 3265.1 |
| #2 | 5661.3 | 71613. | 3262.2 |

Sample Name: 280-42247-C-11-A Acquired: 5/18/2013 2:40:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174457 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.80064** | **.00189** | **.00710** | **.06475** | **.00056** | **-.00100** | **14.107** | **.00020** |
| Stddev | .00041 | .00048 | .00026 | .00047 | .00016 | .00015 | .00114 | .020 | .00006 |
| %RSD | 41.859 | .06052 | 13.505 | 6.5934 | .24350 | 26.869 | 114.14 | .14329 | 27.527 |
| #1 | .00125 | .80098 | .00208 | .00677 | .06486 | .00066 | -.00019 | 14.092 | .00016 |
| #2 | .00068 | .80030 | .00171 | .00743 | .06464 | .00045 | -.00181 | 14.121 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02305** | **.00057** | **.00036** | **8.2100** | **1.9816** | **.01585** | **11.519** | **1.4094** | **.00026** |
| Stddev | .00007 | .00018 | .00018 | .0011 | .0189 | .00123 | .030 | .0045 | .00024 |
| %RSD | .28268 | 30.826 | 50.920 | .01310 | .95269 | 7.7448 | .26366 | .31802 | 90.650 |
| #1 | .02301 | .00070 | .00023 | 8.2092 | 1.9950 | .01672 | 11.541 | 1.4126 | .00043 |
| #2 | .02310 | .00045 | .00049 | 8.2108 | 1.9683 | .01498 | 11.498 | 1.4063 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8479** | **.02611** | **.14188** | **.00128** | **37.891** | **-.00018** | **.00035** | **4.3185** | **-.00057** |
| Stddev | .0008 | .00006 | .00018 | .00024 | .006 | .00161 | .00359 | .0312 | .00012 |
| %RSD | .02190 | .21465 | .12742 | 18.961 | .01495 | 910.95 | 1021.0 | .72295 | 21.254 |
| #1 | 3.8485 | .02615 | .14175 | .00145 | 37.887 | -.00132 | -.00219 | 4.2964 | -.00065 |
| #2 | 3.8473 | .02607 | .14201 | .00111 | 37.895 | .00096 | .00289 | 4.3406 | -.00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10237** | **.00445** | **.00344** | **-.00139** | **-.02316** | **.00134** | **.04442** | **.00027** |
| Stddev | .00034 | .00240 | .00011 | .00117 | .01658 | .00068 | .00057 | .00096 |
| %RSD | .33511 | 53.882 | 3.2441 | 83.930 | 71.609 | 51.171 | 1.2934 | 353.41 |
| #1 | .10213 | .00615 | .00336 | -.00057 | -.03488 | .00182 | .04402 | -.00041 |
| #2 | .10262 | .00276 | .00352 | -.00222 | -.01143 | .00085 | .04483 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5648.5** | **71562.** | **3202.9** |
| Stddev | 4.4 | 207. | 7.4 |
| %RSD | .07843 | .28882 | .23191 |
| #1 | 5651.6 | 71416. | 3208.1 |
| #2 | 5645.4 | 71709. | 3197.6 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 2:42:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **45.390** | **-.00162** | **-.00059** | **.00017** | **.00005** | **1.0061** | **.00082** | **-.00058** | **.00206** | **.00009** | **-.00048** |
| Stddev | .00018 | .021 | .00107 | .00032 | .00038 | .00007 | .0040 | .00267 | .00013 | .00001 | .00009 | .00096 |
| %RSD | 43.091 | .04584 | 66.301 | 53.544 | 232.17 | 150.44 | .39275 | 327.67 | 21.805 | .43904 | 92.068 | 201.77 |
| #1 | .00030 | 45.376 | -.00237 | -.00037 | .00044 | .00010 | 1.0089 | .00270 | -.00067 | .00205 | .00015 | -.00116 |
| #2 | .00056 | 45.405 | -.00086 | -.00082 | -.00011 | -.00000 | 1.0033 | -.00107 | -.00049 | .00206 | .00003 | .00020 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **37.350** | **.00712** | **-.00542** | **.00983** | **.00102** | **-.00173** | F **303.63** | **.00167** | **.00999** | **-.00015** | **5.0556** | **.00068** |
| Stddev | .026 | .03095 | .00077 | .00420 | .00003 | .00031 | .12 | .00014 | .00047 | .00000 | .0246 | .00028 |
| %RSD | .07026 | 434.68 | 14.205 | 42.748 | 2.8566 | 17.979 | .03931 | 8.1105 | 4.6788 | 1.6689 | .48653 | 41.159 |
| #1 | 37.369 | -.01476 | -.00597 | .00686 | .00100 | -.00195 | 303.55 | .00177 | .01032 | -.00015 | 5.0730 | .00088 |
| #2 | 37.332 | .02901 | -.00488 | .01280 | .00104 | -.00151 | 303.71 | .00157 | .00966 | -.00015 | 5.0382 | .00048 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00707** | **.02350** | **.00064** | **.00025** | **5.1294** | **.00318** | **.00005** | **10.034** | **-.00002** | **.00354** | **-.05852** |
| Stddev | .00242 | .02478 | .00069 | .00008 | .0057 | .00029 | .00097 | .076 | .00066 | .00044 | .00372 |
| %RSD | 34.212 | 105.48 | 106.64 | 34.078 | .11160 | 9.1739 | 1772.7 | .75769 | 2808.0 | 12.386 | 6.3634 |
| #1 | .00878 | .04102 | .00113 | .00031 | 5.1254 | .00298 | -.00063 | 10.087 | .00044 | .00323 | -.05588 |
| #2 | .00536 | .00597 | .00016 | .00019 | 5.1335 | .00339 | .00074 | 9.9798 | -.00049 | .00385 | -.06115 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5417.7** | **68548.** | **3132.9** |
| Stddev | 10.8 | 98. | 2.6 |
| %RSD | .19941 | .14278 | .08200 |
| #1 | 5425.3 | 68617. | 3134.8 |
| #2 | 5410.0 | 68479. | 3131.1 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 2:45:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50247** | **.49242** | **.98890** | **.51000** | **.53267** | F **.43395** | **.00183** | F **4.4760** | **.49671** | **.50388** | **.48690** | **.48403** |
| Stddev | .00027 | .00104 | .00531 | .00085 | .00036 | .00038 | .00000 | .0064 | .00018 | .00032 | .00005 | .00068 |
| %RSD | .05420 | .21117 | .53740 | .16587 | .06694 | .08691 | .18359 | .14369 | .03681 | .06403 | .01039 | .14006 |
| #1 | .50266 | .49168 | .98515 | .50940 | .53292 | .43368 | .00183 | 4.4806 | .49684 | .50411 | .48686 | .48451 |
| #2 | .50227 | .49315 | .99266 | .51060 | .53242 | .43422 | .00183 | 4.4715 | .49658 | .50365 | .48693 | .48355 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | 5.0000 | | | | |
| Range | | | | | | -10.000% | | -10.000% | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9164** | F **59.028** | F **1.1719** | **19.485** | **.49573** | **.47674** | F **5.5012** | **.49488** | **1.0088** | **.99487** | **-.03764** | **1.0010** |
| Stddev | .0067 | .013 | .0001 | .083 | .00185 | .00100 | .0314 | .00164 | .0043 | .00278 | .00225 | .0017 |
| %RSD | .34858 | .02274 | .01055 | .42835 | .37407 | .20880 | .57056 | .33168 | .42840 | .27897 | 5.9883 | .17267 |
| #1 | 1.9211 | 59.038 | 1.1718 | 19.544 | .49705 | .47603 | 5.5234 | .49372 | 1.0058 | .99291 | -.03604 | .99976 |
| #2 | 1.9116 | 59.019 | 1.1720 | 19.426 | .49442 | .47744 | 5.4790 | .49604 | 1.0119 | .99684 | -.03923 | 1.0022 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0058** | F **4.1008** | **.95279** | **.52371** | **.00172** | **.49046** | **.96890** | **.03376** | **.48421** | **.48781** | **.45727** |
| Stddev | .0061 | .0273 | .00516 | .00003 | .00231 | .00113 | .00493 | .00088 | .00194 | .00248 | .00144 |
| %RSD | .60943 | .66493 | .54207 | .00524 | 133.96 | .23068 | .50834 | 2.5970 | .40134 | .50743 | .31487 |
| #1 | 1.0101 | 4.0815 | .94914 | .52369 | .00336 | .49126 | .96542 | .03314 | .48558 | .48956 | .45625 |
| #2 | 1.0014 | 4.1201 | .95644 | .52373 | .00009 | .48966 | .97238 | .03439 | .48283 | .48606 | .45829 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5564.5** | **69887.** | **3167.5** |
| Stddev | 8.1 | 199. | 4.2 |
| %RSD | .14613 | .28403 | .13313 |
| #1 | 5570.2 | 69747. | 3170.5 |
| #2 | 5558.7 | 70028. | 3164.5 |

Sample Name: CCB Acquired: 5/18/2013 2:47:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00112** | **.00088** | **.00137** | W **-.00161** | **-.00021** | **-.00004** | **.00399** | **-.00297** | **-.00010** | **.00015** | **.00009** |
| Stddev | .00013 | .00025 | .00120 | .00070 | .00033 | .00014 | .00206 | .00363 | .00003 | .00014 | .00001 |
| %RSD | 11.810 | 28.098 | 87.610 | 43.252 | 152.62 | 327.40 | 51.711 | 122.10 | 32.327 | 95.241 | 13.848 |
| #1 | .00103 | .00105 | .00052 | -.00112 | -.00044 | -.00014 | .00253 | -.00553 | -.00013 | .00005 | .00010 |
| #2 | .00122 | .00070 | .00222 | -.00211 | .00002 | .00006 | .00545 | -.00041 | -.00008 | .00025 | .00008 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00156 | | | | | | | |
| Low Limit | -.00093 | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **-.00287** | **-.01456** | W **-.00454** | **.00132** | **.00017** | **.00039** | **-.08128** | **.00043** | **.00115** | **-.00011** |
| Stddev | .00011 | .00026 | .03059 | .00203 | .00187 | .00000 | .00007 | .00414 | .00010 | .00057 | .00122 |
| %RSD | 29.863 | 9.1354 | 210.10 | 44.703 | 141.42 | 1.6337 | 18.471 | 5.0922 | 24.126 | 49.697 | 1155.8 |
| #1 | -.00029 | -.00305 | -.03620 | -.00310 | -.00000 | .00017 | .00034 | -.08420 | .00035 | .00075 | .00075 |
| #2 | -.00044 | -.00268 | .00707 | -.00597 | .00265 | .00017 | .00044 | -.07835 | .00050 | .00156 | -.00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03866** | **.00191** | **.00178** | **.00937** | **-.00113** | **-.00014** | **-.00026** | **.00034** | **.00035** | **.00422** | **.00007** |
| Stddev | .00065 | .00121 | .00376 | .00909 | .00023 | .00018 | .00153 | .00029 | .00041 | .02443 | .00054 |
| %RSD | 1.6800 | 63.366 | 211.18 | 97.027 | 20.597 | 130.67 | 577.37 | 83.971 | 116.59 | 578.29 | 724.58 |
| #1 | -.03820 | .00276 | .00443 | .01580 | -.00130 | -.00001 | -.00135 | .00014 | .00006 | .02150 | .00045 |
| #2 | -.03911 | .00105 | -.00088 | .00294 | -.00097 | -.00027 | .00082 | .00055 | .00064 | -.01305 | -.00031 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00262** | **-.00032** |
| Stddev | .00004 | .00056 |
| %RSD | 1.5145 | 177.68 |
| #1 | .00265 | .00008 |
| #2 | .00260 | -.00071 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5607.6** | **71041.** | **3195.0** |
| Stddev | 15.4 | 85. | 21.5 |
| %RSD | .27418 | .12023 | .67253 |
| #1 | 5618.5 | 71102. | 3210.2 |
| #2 | 5596.7 | 70981. | 3179.8 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 2:50:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01064** | **.10232** | **.01355** | **.10058** | **.01126** | **.00089** | **.10469** | **.18710** | **.00503** | **.01065** | **.01005** |
| Stddev | .00045 | .00023 | .00244 | .00039 | .00031 | .00003 | .00014 | .00083 | .00010 | .00005 | .00007 |
| %RSD | 4.2577 | .22314 | 18.015 | .38733 | 2.7101 | 3.1981 | .13740 | .44162 | 2.0482 | .43182 | .68311 |
| #1 | .01032 | .10216 | .01182 | .10031 | .01105 | .00092 | .10479 | .18651 | .00496 | .01062 | .01010 |
| #2 | .01096 | .10248 | .01527 | .10086 | .01148 | .00087 | .10459 | .18768 | .00511 | .01068 | .01000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01463** | **.08313** | W **3.7498** | **.00926** | **.20418** | **.01044** | **.01940** | **1.1455** | **.04068** | **2.9410** | **.00883** |
| Stddev | .00051 | .00395 | .0236 | .00040 | .00031 | .00005 | .00011 | .0241 | .00025 | .0024 | .00058 |
| %RSD | 3.4906 | 4.7537 | .62843 | 4.3270 | .15212 | .46405 | .58231 | 2.1015 | .62234 | .08063 | 6.5190 |
| #1 | .01499 | .08592 | 3.7665 | .00898 | .20440 | .01048 | .01948 | 1.1284 | .04050 | 2.9393 | .00923 |
| #2 | .01427 | .08034 | 3.7331 | .00954 | .20396 | .01041 | .01932 | 1.1625 | .04086 | 2.9426 | .00842 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | | | | | | |
| Range | | | 20.000% | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03491** | W **.01231** | **.01243** | **.41117** | **.09616** | **.01060** | **.01528** | **.00963** | **.01383** | F **.07991** | **.01074** |
| Stddev | .00394 | .00039 | .00198 | .00159 | .00039 | .00035 | .00093 | .00014 | .00118 | .01158 | .00084 |
| %RSD | 11.287 | 3.1671 | 15.949 | .38648 | .40148 | 3.2642 | 6.0818 | 1.4545 | 8.4961 | 14.487 | 7.7903 |
| #1 | -.03770 | .01258 | .01383 | .41229 | .09588 | .01085 | .01462 | .00953 | .01300 | .08810 | .01015 |
| #2 | -.03212 | .01203 | .01103 | .41004 | .09643 | .01036 | .01594 | .00973 | .01466 | .07173 | .01133 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02358** | **.01546** |
| Stddev | .00066 | .00011 |
| %RSD | 2.8175 | .69490 |
| #1 | .02405 | .01553 |
| #2 | .02311 | .01538 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5563.9** | **69628.** | **3134.2** |
| Stddev | 23.0 | 141. | 2.5 |
| %RSD | .41319 | .20315 | .08136 |
| #1 | 5547.7 | 69528. | 3136.0 |
| #2 | 5580.2 | 69728. | 3132.4 |

Sample Name: MB 280-174347/1-A Acquired: 5/18/2013 2:52:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00366** | **.00238** | **-.00117** | **-.00030** | **-.00010** | **-.00101** | **.00329** | **.00001** |
| Stddev | .00035 | .00061 | .00088 | .00004 | .00031 | .00009 | .00389 | .00021 | .00010 |
| %RSD | 54.046 | 16.623 | 37.112 | 3.4921 | 103.54 | 93.950 | 383.56 | 6.3046 | 968.03 |
| #1 | .00088 | .00323 | .00176 | -.00114 | -.00008 | -.00016 | -.00376 | .00314 | -.00006 |
| #2 | .00039 | .00409 | .00300 | -.00120 | -.00052 | -.00003 | .00173 | .00343 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00003** | **-.00062** | **.01629** | **-.04255** | **-.00317** | **.00097** | **.00029** | **.00050** |
| Stddev | .00012 | .00021 | .00019 | .00100 | .02513 | .00010 | .00252 | .00004 | .00032 |
| %RSD | 146.82 | 716.92 | 31.056 | 6.1525 | 59.065 | 3.2908 | 259.64 | 15.222 | 64.019 |
| #1 | -.00000 | -.00012 | -.00076 | .01558 | -.02478 | -.00324 | .00275 | .00032 | .00028 |
| #2 | .00016 | .00018 | -.00049 | .01700 | -.06032 | -.00310 | -.00081 | .00026 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07286** | **-.00002** | F **.16861** | **.00124** | **-.04043** | **.00188** | **.00141** | **.00838** | **-.00082** |
| Stddev | .00179 | .00008 | .00129 | .00178 | .00422 | .00099 | .00054 | .01872 | .00059 |
| %RSD | 2.4500 | 332.14 | .76259 | 143.32 | 10.430 | 52.722 | 38.131 | 223.43 | 71.767 |
| #1 | -.07412 | -.00008 | .16770 | .00250 | -.03745 | .00258 | .00179 | .02162 | -.00124 |
| #2 | -.07160 | .00003 | .16952 | -.00002 | -.04342 | .00118 | .00103 | -.00486 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00063** | **.00023** | **-.00018** | **.01689** | **-.00027** | **.00202** | **.00399** |
| Stddev | .00001 | .00071 | .00031 | .00022 | .01825 | .00019 | .00022 | .00052 |
| %RSD | 10.276 | 111.95 | 135.35 | 123.30 | 108.03 | 71.784 | 10.847 | 13.019 |
| #1 | .00013 | .00013 | .00044 | -.00033 | .00399 | -.00041 | .00217 | .00362 |
| #2 | .00011 | .00113 | .00001 | -.00002 | .02980 | -.00013 | .00186 | .00436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5600.2** | **70638.** | **3179.6** |
| Stddev | 20.2 | 51. | 38.0 |
| %RSD | .35987 | .07174 | 1.1964 |
| #1 | 5614.4 | 70602. | 3152.7 |
| #2 | 5585.9 | 70674. | 3206.5 |

Sample Name: LCS 280-174347/2-A Acquired: 5/18/2013 2:55:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05432** | **1.9212** | **.98254** | **1.0277** | **2.1639** | **.04414** | **2.0464** | **44.574** | **.10251** |
| Stddev | .00052 | .0024 | .00394 | .0013 | .0102 | .00008 | .0028 | .112 | .00027 |
| %RSD | .95832 | .12740 | .40051 | .12818 | .47049 | .17772 | .13706 | .25038 | .26337 |
| #1 | .05469 | 1.9230 | .97976 | 1.0268 | 2.1711 | .04419 | 2.0444 | 44.653 | .10270 |
| #2 | .05395 | 1.9195 | .98532 | 1.0286 | 2.1567 | .04408 | 2.0484 | 44.495 | .10232 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49976** | **.19642** | **.24477** | F **.78598** | F **60.060** | F **1.1829** | **48.967** | **.49540** | **.96226** |
| Stddev | .00058 | .00029 | .00103 | .00501 | .065 | .0018 | .096 | .00081 | .00158 |
| %RSD | .11527 | .14839 | .42196 | .63726 | .10851 | .14862 | .19647 | .16317 | .16394 |
| #1 | .49935 | .19622 | .24550 | .78952 | 60.106 | 1.1841 | 49.035 | .49597 | .96115 |
| #2 | .50017 | .19663 | .24404 | .78244 | 60.014 | 1.1816 | 48.899 | .49483 | .96338 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1400 | 57.000 | 1.1400 | | | |
| Low Limit | | | | .88000 | 44.500 | .89000 | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **63.057** | **.48781** | **10.406** | **.49538** | **-.03525** | **.50702** | **2.0519** | F **8.3729** | **1.9147** |
| Stddev | .387 | .00058 | .010 | .00049 | .00609 | .00463 | .0179 | .0683 | .0155 |
| %RSD | .61410 | .11988 | .09793 | .09974 | 17.277 | .91277 | .86995 | .81570 | .81158 |
| #1 | 63.331 | .48740 | 10.399 | .49572 | -.03955 | .50375 | 2.0393 | 8.4212 | 1.9037 |
| #2 | 62.783 | .48822 | 10.414 | .49503 | -.03094 | .51030 | 2.0645 | 8.3246 | 1.9257 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 11.500 | |
| Low Limit | 45.500 | | | | | | | 9.4000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0558** | **1.0367** | **.99038** | **1.9513** | **2.0493** | **.49438** | **.48929** | **.45057** |
| Stddev | .0023 | .0003 | .00013 | .0163 | .0136 | .00115 | .00063 | .00295 |
| %RSD | .22009 | .03018 | .01272 | .83645 | .66284 | .23196 | .12837 | .65499 |
| #1 | 1.0574 | 1.0369 | .99029 | 1.9397 | 2.0589 | .49520 | .48974 | .45265 |
| #2 | 1.0542 | 1.0365 | .99047 | 1.9628 | 2.0397 | .49357 | .48885 | .44848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5422.2** | **68198.** | **3129.1** |
| Stddev | 13.7 | 30. | 11.0 |
| %RSD | .25251 | .04387 | .35066 |
| #1 | 5412.5 | 68177. | 3121.3 |
| #2 | 5431.9 | 68220. | 3136.8 |

Sample Name: 280-42191-A-81-A Acquired: 5/18/2013 2:57:17 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00128** | **.02235** | **-.00173** | **1.1794** | **.05268** | **-.00013** | **-.00148** | **114.01** | **.00484** |
| Stddev | .00021 | .00003 | .00207 | .0025 | .00019 | .00012 | .00089 | .75 | .00008 |
| %RSD | 16.640 | .12766 | 119.91 | .21321 | .36691 | 90.071 | 60.458 | .65400 | 1.5522 |
| #1 | .00143 | .02233 | -.00026 | 1.1812 | .05282 | -.00005 | -.00085 | 113.48 | .00489 |
| #2 | .00113 | .02237 | -.00320 | 1.1776 | .05254 | -.00021 | -.00211 | 114.54 | .00478 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00129** | **.00002** | **.00739** | **.07367** | **13.712** | **.06479** | **18.246** | **.12206** | **.00907** |
| Stddev | .00002 | .00001 | .00016 | .00513 | .120 | .00025 | .012 | .00016 | .00020 |
| %RSD | 1.7693 | 23.047 | 2.2227 | 6.9608 | .87859 | .38673 | .06759 | .13001 | 2.2298 |
| #1 | .00131 | .00002 | .00727 | .07730 | 13.627 | .06461 | 18.238 | .12195 | .00922 |
| #2 | .00127 | .00003 | .00751 | .07004 | 13.797 | .06497 | 18.255 | .12217 | .00893 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.946** | **.00641** | **.19511** | **.04256** | **67.297** | **.00295** | **-.00031** | **7.7878** | **-.00005** |
| Stddev | .155 | .00007 | .00386 | .00016 | .019 | .00193 | .00020 | .0002 | .00037 |
| %RSD | .28699 | 1.1522 | 1.9769 | .37625 | .02777 | 65.253 | 63.765 | .00221 | 719.15 |
| #1 | 53.837 | .00646 | .19784 | .04244 | 67.284 | .00431 | -.00017 | 7.7877 | -.00031 |
| #2 | 54.055 | .00635 | .19238 | .04267 | 67.310 | .00159 | -.00045 | 7.7879 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42159** | **.00138** | **.00135** | **.00101** | **-.00397** | **.00084** | W **11.656** | **.00501** |
| Stddev | .00248 | .00105 | .00007 | .00177 | .05028 | .00023 | .034 | .00133 |
| %RSD | .58851 | 76.433 | 5.1859 | 175.86 | 1266.3 | 27.301 | .28905 | 26.464 |
| #1 | .41983 | .00212 | .00130 | .00226 | -.03952 | .00068 | 11.633 | .00594 |
| #2 | .42334 | .00063 | .00140 | -.00025 | .03158 | .00100 | 11.680 | .00407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5409.6** | **69114.** | **3175.8** |
| Stddev | 10.8 | 111. | 21.4 |
| %RSD | .19882 | .16132 | .67533 |
| #1 | 5402.0 | 69193. | 3191.0 |
| #2 | 5417.2 | 69035. | 3160.7 |

Sample Name: sd 42191-A-81-A@5 Acquired: 5/18/2013 2:59:41 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **.01030** | **-.00029** | **.24318** | **.01103** | **-.00012** | **-.00037** | **24.097** | **.00106** |
| Stddev | .00020 | .00017 | .00036 | .00107 | .00021 | .00006 | .00357 | .036 | .00011 |
| %RSD | 46.379 | 1.6147 | 122.43 | .43956 | 1.8748 | 52.195 | 968.79 | .14874 | 10.656 |
| #1 | .00056 | .01042 | -.00055 | .24243 | .01089 | -.00007 | .00215 | 24.072 | .00114 |
| #2 | .00029 | .01018 | -.00004 | .24394 | .01118 | -.00016 | -.00289 | 24.123 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00006** | **.00070** | **.03263** | **2.9168** | **.01102** | **3.8824** | **.02673** | **.00218** |
| Stddev | .00048 | .00020 | .00024 | .00016 | .0433 | .00365 | .0046 | .00008 | .00026 |
| %RSD | 105.24 | 336.90 | 34.741 | .47833 | 1.4854 | 33.091 | .11831 | .29116 | 11.861 |
| #1 | .00080 | -.00008 | .00053 | .03274 | 2.8861 | .00844 | 3.8857 | .02678 | .00200 |
| #2 | .00012 | .00020 | .00087 | .03252 | 2.9474 | .01360 | 3.8792 | .02667 | .00237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **10.032** | **11.320** | **.00151** | **.04483** | **.01103** | **13.716** | **.00168** | **-.00202** | **1.6059** |
| Stddev | .021 | .309 | .00019 | .00088 | .00039 | .002 | .00024 | .00275 | .0117 |
| %RSD | .21030 | 2.7305 | 12.271 | 1.9598 | 3.5379 | .01532 | 14.125 | 135.87 | .72524 |
| #1 | 10.017 | 11.538 | .00165 | .04421 | .01131 | 13.718 | .00152 | -.00008 | 1.6141 |
| #2 | 10.047 | 11.101 | .00138 | .04545 | .01076 | 13.715 | .00185 | -.00397 | 1.5976 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00056** | **.08945** | **.00121** | **.00052** | **-.00031** | **.00091** | **.00030** | **2.5025** | **.00554** |
| Stddev | .00023 | .00015 | .00016 | .00011 | .00232 | .02895 | .00049 | .0051 | .00122 |
| %RSD | 40.660 | .16432 | 13.181 | 20.483 | 757.93 | 3166.6 | 165.03 | .20422 | 21.976 |
| #1 | -.00071 | .08955 | .00132 | .00060 | .00133 | -.01956 | .00065 | 2.5061 | .00640 |
| #2 | -.00040 | .08934 | .00110 | .00045 | -.00195 | .02139 | -.00005 | 2.4989 | .00468 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5564.0** | **70680.** | **3170.1** |
| Stddev | 12.9 | 63. | 11.9 |
| %RSD | .23185 | .08969 | .37509 |
| #1 | 5573.1 | 70635. | 3178.5 |
| #2 | 5554.9 | 70725. | 3161.7 |

Sample Name: 280-42191-A-81-B MS Acquired: 5/18/2013 3:02:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05357** | **1.8876** | **.98297** | **2.1852** | **2.1716** | **.04293** | **2.0309** | **155.29** | **.10607** |
| Stddev | .00045 | .0026 | .00907 | .0037 | .0123 | .00035 | .0015 | 1.08 | .00014 |
| %RSD | .84406 | .13927 | .92242 | .17082 | .56840 | .80832 | .07221 | .69666 | .12912 |
| #1 | .05389 | 1.8858 | .97656 | 2.1826 | 2.1803 | .04317 | 2.0299 | 156.06 | .10597 |
| #2 | .05325 | 1.8895 | .98938 | 2.1879 | 2.1629 | .04268 | 2.0320 | 154.53 | .10616 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48764** | **.19256** | **.24980** | **.79113** | **72.468** | **1.2280** | **65.018** | **.59854** | **.95381** |
| Stddev | .00066 | .00023 | .00026 | .00690 | .574 | .0091 | .113 | .00034 | .00114 |
| %RSD | .13578 | .11726 | .10460 | .87183 | .79189 | .73736 | .17351 | .05667 | .11969 |
| #1 | .48718 | .19240 | .24998 | .79601 | 72.874 | 1.2345 | 65.098 | .59878 | .95301 |
| #2 | .48811 | .19272 | .24961 | .78626 | 72.063 | 1.2216 | 64.938 | .59830 | .95462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **113.80** | **.47942** | **10.439** | **.52403** | **67.627** | **.50659** | **2.0333** | **15.881** | **1.8785** |
| Stddev | .28 | .00086 | .011 | .00008 | .018 | .00106 | .0053 | .027 | .0026 |
| %RSD | .24915 | .17868 | .10402 | .01474 | .02623 | .21005 | .25875 | .16874 | .13855 |
| #1 | 113.60 | .47881 | 10.447 | .52409 | 67.615 | .50584 | 2.0296 | 15.900 | 1.8767 |
| #2 | 114.00 | .48003 | 10.431 | .52398 | 67.640 | .50735 | 2.0371 | 15.862 | 1.8804 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4459** | **1.0089** | **.96741** | **1.8888** | **1.9929** | **.48093** | W **11.788** | **.43777** |
| Stddev | .0090 | .0048 | .00195 | .0030 | .0195 | .00006 | .030 | .00079 |
| %RSD | .62359 | .47273 | .20138 | .16086 | .97773 | .01309 | .25091 | .18008 |
| #1 | 1.4523 | 1.0123 | .96879 | 1.8909 | 2.0067 | .48089 | 11.809 | .43833 |
| #2 | 1.4395 | 1.0056 | .96603 | 1.8866 | 1.9791 | .48098 | 11.767 | .43722 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5371.3** | **68962.** | **3155.9** |
| Stddev | 25.2 | 208. | 23.6 |
| %RSD | .46898 | .30220 | .74907 |
| #1 | 5389.1 | 68815. | 3139.2 |
| #2 | 5353.5 | 69109. | 3172.6 |

Sample Name: 280-42191-A-81-C MSD Acquired: 5/18/2013 3:04:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05395** | **1.9083** | **.99642** | **2.2259** | **2.1748** | **.04328** | **2.0534** | **156.58** | **.10762** |
| Stddev | .00038 | .0010 | .00452 | .0005 | .0047 | .00000 | .0008 | .62 | .00030 |
| %RSD | .70386 | .05296 | .45366 | .02230 | .21696 | .00026 | .03681 | .39408 | .27845 |
| #1 | .05368 | 1.9090 | .99322 | 2.2262 | 2.1781 | .04328 | 2.0539 | 157.01 | .10741 |
| #2 | .05422 | 1.9076 | .99961 | 2.2255 | 2.1714 | .04328 | 2.0528 | 156.14 | .10783 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49382** | **.19520** | **.25123** | **.79742** | **72.765** | **1.2359** | **65.852** | **.60661** | **.96497** |
| Stddev | .00034 | .00005 | .00010 | .00367 | .231 | .0047 | .084 | .00040 | .00083 |
| %RSD | .06885 | .02442 | .03873 | .46028 | .31749 | .37759 | .12750 | .06647 | .08644 |
| #1 | .49406 | .19523 | .25116 | .80002 | 72.928 | 1.2392 | 65.793 | .60633 | .96438 |
| #2 | .49358 | .19516 | .25130 | .79483 | 72.602 | 1.2326 | 65.911 | .60690 | .96556 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **116.06** | **.48515** | **10.589** | **.53032** | **69.111** | **.51211** | **2.0681** | **16.024** | **1.8934** |
| Stddev | .08 | .00080 | .000 | .00020 | .016 | .00034 | .0007 | .020 | .0029 |
| %RSD | .06481 | .16401 | .00024 | .03804 | .02268 | .06674 | .03314 | .12389 | .15498 |
| #1 | 116.11 | .48571 | 10.588 | .53017 | 69.100 | .51186 | 2.0676 | 16.038 | 1.8914 |
| #2 | 116.00 | .48458 | 10.589 | .53046 | 69.122 | .51235 | 2.0685 | 16.010 | 1.8955 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4553** | **1.0241** | **.97810** | **1.9166** | **2.0526** | **.48702** | W **12.001** | **.44570** |
| Stddev | .0042 | .0031 | .00129 | .0002 | .0065 | .00060 | .001 | .00297 |
| %RSD | .28836 | .30019 | .13155 | .00888 | .31719 | .12397 | .01063 | .66641 |
| #1 | 1.4582 | 1.0220 | .97719 | 1.9167 | 2.0572 | .48745 | 12.000 | .44780 |
| #2 | 1.4523 | 1.0263 | .97901 | 1.9165 | 2.0480 | .48659 | 12.002 | .44360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5357.3** | **68898.** | **3204.9** |
| Stddev | 6.2 | 122. | 10.1 |
| %RSD | .11597 | .17762 | .31414 |
| #1 | 5352.9 | 68812. | 3197.8 |
| #2 | 5361.7 | 68985. | 3212.0 |

Sample Name: 280-42191-A-82-A  Acquired: 5/18/2013 3:06:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00119** | **.00656** | **-.00086** | **1.6224** | **.08310** | **-.00003** | **-.00393** | **150.62** | **.00142** |
| Stddev | .00042 | .00054 | .00266 | .0006 | .00039 | .00004 | .00237 | .49 | .00001 |
| %RSD | 35.068 | 8.2518 | 310.01 | .03827 | .47306 | 149.98 | 60.224 | .32202 | .59948 |
| #1 | .00149 | .00695 | .00102 | 1.6228 | .08282 | .00000 | -.00226 | 150.96 | .00141 |
| #2 | .00090 | .00618 | -.00274 | 1.6220 | .08338 | -.00006 | -.00560 | 150.27 | .00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **.00031** | **.00240** | **.01015** | **4.3005** | **.00386** | **32.220** | **.05364** | **.04005** |
| Stddev | .00038 | .00010 | .00005 | .00228 | .0463 | .00267 | .078 | .00021 | .00022 |
| %RSD | 44.748 | 32.083 | 2.1233 | 22.500 | 1.0769 | 69.228 | .24117 | .39231 | .54988 |
| #1 | .00059 | .00024 | .00236 | .01177 | 4.3332 | .00197 | 32.275 | .05379 | .04020 |
| #2 | .00113 | .00038 | .00243 | .00854 | 4.2677 | .00575 | 32.165 | .05349 | .03989 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.230** | **.00964** | **.19103** | **.00244** | **32.877** | **.00356** | **.00036** | **4.6348** | **-.00043** |
| Stddev | .459 | .00011 | .00012 | .00030 | .031 | .00006 | .00511 | .0035 | .00015 |
| %RSD | 3.2281 | 1.1888 | .06309 | 12.096 | .09441 | 1.5756 | 1412.8 | .07483 | 35.848 |
| #1 | 13.906 | .00972 | .19095 | .00265 | 32.899 | .00352 | .00398 | 4.6324 | -.00032 |
| #2 | 14.555 | .00956 | .19112 | .00223 | 32.855 | .00360 | -.00325 | 4.6373 | -.00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27683** | **.00262** | **.00102** | **.00082** | **-.02336** | **.00100** | **9.3897** | **.00284** |
| Stddev | .00064 | .00258 | .00000 | .00123 | .02789 | .00024 | .0243 | .00007 |
| %RSD | .23079 | 98.419 | .45209 | 150.71 | 119.40 | 23.688 | .25907 | 2.3972 |
| #1 | .27728 | .00444 | .00102 | -.00005 | -.04309 | .00117 | 9.4069 | .00289 |
| #2 | .27638 | .00080 | .00102 | .00169 | -.00364 | .00083 | 9.3725 | .00280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5401.5** | **69047.** | **3149.6** |
| Stddev | 7.7 | 324. | 16.7 |
| %RSD | .14307 | .46965 | .53174 |
| #1 | 5407.0 | 68818. | 3137.8 |
| #2 | 5396.1 | 69277. | 3161.5 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 3:08:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | F **44.980** | **-.00175** | **.00649** | **.00125** | **-.00005** | **1.0042** | **.05573** | **-.00068** | **.00219** | **.00003** | **-.00156** |
| Stddev | .00098 | .163 | .00249 | .00108 | .00000 | .00013 | .0036 | .00424 | .00001 | .00008 | .00013 | .00005 |
| %RSD | 187.42 | .36209 | 142.43 | 16.661 | .36407 | 246.74 | .36295 | 7.6070 | 1.9040 | 3.5960 | 385.98 | 3.2992 |
| #1 | .00017 | 44.864 | .00001 | .00725 | .00125 | -.00014 | 1.0067 | .05873 | -.00069 | .00225 | -.00006 | -.00159 |
| #2 | -.00122 | 45.095 | -.00351 | .00572 | .00124 | .00004 | 1.0016 | .05273 | -.00067 | .00214 | .00013 | -.00152 |
| Check ? | None | Chk Fail | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | 50.000 | | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **36.960** | **.25893** | **-.00352** | **.02617** | **.00046** | **-.00141** | F **300.54** | **.00156** | **.01067** | **-.00064** | **5.0506** | **.00302** |
| Stddev | .034 | .03063 | .00046 | .00129 | .00005 | .00005 | .12 | .00001 | .00221 | .00154 | .0136 | .00052 |
| %RSD | .09314 | 11.828 | 13.025 | 4.9212 | 11.639 | 3.4647 | .04075 | .52545 | 20.750 | 241.78 | .26845 | 17.290 |
| #1 | 36.984 | .23727 | -.00384 | .02526 | .00043 | -.00138 | 300.45 | .00156 | .01223 | .00045 | 5.0602 | .00265 |
| #2 | 36.936 | .28059 | -.00319 | .02708 | .00050 | -.00145 | 300.63 | .00157 | .00910 | -.00172 | 5.0410 | .00339 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01072** | **.01527** | **.00001** | **.00064** | **5.1291** | **.00362** | **-.00153** | **9.9487** | **-.00046** | **.00751** | **-.05912** |
| Stddev | .00530 | .01019 | .00011 | .00002 | .0046 | .00005 | .00066 | .0866 | .00011 | .00005 | .00218 |
| %RSD | 49.408 | 66.696 | 1122.9 | 3.1236 | .08987 | 1.3915 | 42.836 | .87038 | 23.046 | .70157 | 3.6791 |
| #1 | .00697 | .00807 | .00009 | .00063 | 5.1323 | .00366 | -.00107 | 10.010 | -.00054 | .00755 | -.05758 |
| #2 | .01446 | .02248 | -.00007 | .00065 | 5.1258 | .00359 | -.00199 | 9.8875 | -.00039 | .00747 | -.06066 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5446.2** | **68962.** | **3181.5** |
| Stddev | 18.0 | 105. | 5.8 |
| %RSD | .33031 | .15228 | .18328 |
| #1 | 5458.9 | 69036. | 3177.4 |
| #2 | 5433.4 | 68887. | 3185.7 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 3:11:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50875** | **.50995** | **.99770** | **.52218** | **.54345** | F **.43977** | **.00618** | **4.5963** | **.50399** | **.50996** | **.49228** | **.49026** |
| Stddev | .00030 | .00177 | .00077 | .00226 | .00035 | .00041 | .00016 | .0190 | .00014 | .00013 | .00028 | .00097 |
| %RSD | .05975 | .34739 | .07752 | .43204 | .06494 | .09414 | 2.5893 | .41404 | .02757 | .02576 | .05646 | .19773 |
| #1 | .50854 | .50870 | .99716 | .52378 | .54370 | .43948 | .00630 | 4.5828 | .50408 | .50987 | .49208 | .49094 |
| #2 | .50897 | .51120 | .99825 | .52059 | .54320 | .44006 | .00607 | 4.6098 | .50389 | .51005 | .49247 | .48957 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9344** | F **59.943** | F **1.1924** | **19.742** | **.50288** | **.48260** | F **5.6787** | **.50190** | **1.0203** | **1.0094** | **-.02061** | **1.0146** |
| Stddev | .0053 | .079 | .0027 | .015 | .00001 | .00028 | .0224 | .00015 | .0023 | .0007 | .00224 | .0018 |
| %RSD | .27324 | .13096 | .22549 | .07410 | .00167 | .05856 | .39367 | .03021 | .22108 | .07126 | 10.868 | .17511 |
| #1 | 1.9307 | 59.998 | 1.1905 | 19.752 | .50288 | .48280 | 5.6945 | .50201 | 1.0187 | 1.0089 | -.01902 | 1.0159 |
| #2 | 1.9381 | 59.887 | 1.1943 | 19.732 | .50287 | .48240 | 5.6629 | .50179 | 1.0219 | 1.0099 | -.02219 | 1.0134 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0271** | F **4.1626** | **.96787** | **.53190** | **.00313** | **.49743** | **.97934** | **.05903** | **.49180** | **.49909** | **.46785** |
| Stddev | .0049 | .0325 | .00051 | .00033 | .00042 | .00085 | .00098 | .02934 | .00048 | .00039 | .00041 |
| %RSD | .47501 | .77981 | .05232 | .06260 | 13.301 | .17093 | .09969 | 49.694 | .09737 | .07758 | .08692 |
| #1 | 1.0305 | 4.1396 | .96751 | .53166 | .00283 | .49803 | .97865 | .07978 | .49214 | .49882 | .46814 |
| #2 | 1.0236 | 4.1855 | .96822 | .53213 | .00342 | .49683 | .98003 | .03829 | .49146 | .49937 | .46756 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5499.9** | **69117.** | **3109.3** |
| Stddev | 9.5 | 57. | 1.7 |
| %RSD | .17302 | .08310 | .05584 |
| #1 | 5506.7 | 69158. | 3108.1 |
| #2 | 5493.2 | 69077. | 3110.6 |

Sample Name: CCB Acquired: 5/18/2013 3:13:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.00206** | **.00060** | W **.00200** | **.00057** | **-.00013** | **.00306** | **.00421** | **-.00004** | **.00027** | **-.00002** |
| Stddev | .00035 | .00068 | .00088 | .00014 | .00017 | .00000 | .00059 | .00065 | .00007 | .00034 | .00005 |
| %RSD | 50.856 | 33.095 | 147.28 | 7.0359 | 28.830 | 3.8621 | 19.394 | 15.503 | 194.55 | 126.45 | 269.05 |
| #1 | .00093 | .00254 | -.00002 | .00190 | .00046 | -.00013 | .00264 | .00375 | .00001 | .00051 | .00002 |
| #2 | .00044 | .00158 | .00122 | .00210 | .00069 | -.00013 | .00348 | .00468 | -.00009 | .00003 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **.00106** | **.10637** | F **-.00530** | **.00427** | **.00008** | **.00024** | **-.05924** | **.00066** | **.00034** | **.00119** |
| Stddev | .00000 | .00066 | .01151 | .00298 | .00066 | .00008 | .00007 | .01635 | .00004 | .00014 | .00091 |
| %RSD | .69921 | 62.090 | 10.826 | 56.271 | 15.492 | 105.45 | 27.742 | 27.604 | 6.4315 | 41.511 | 76.371 |
| #1 | -.00064 | .00059 | .11451 | -.00319 | .00380 | .00014 | .00019 | -.07081 | .00063 | .00024 | .00055 |
| #2 | -.00063 | .00152 | .09822 | -.00741 | .00474 | .00002 | .00028 | -.04768 | .00069 | .00044 | .00184 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00522 | | | | | | | |
| Low Limit | | | | -.00522 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04157** | **.00255** | **.00142** | **-.00515** | **-.00132** | **-.00004** | **.00106** | **.00036** | **.00048** | **.00215** | **.00059** |
| Stddev | .00026 | .00153 | .00218 | .00322 | .00050 | .00002 | .00051 | .00026 | .00029 | .01881 | .00081 |
| %RSD | .62148 | 60.065 | 153.81 | 62.467 | 37.979 | 48.092 | 48.258 | 72.574 | 60.084 | 875.62 | 138.72 |
| #1 | -.04139 | .00147 | -.00012 | -.00743 | -.00097 | -.00003 | .00142 | .00055 | .00068 | -.01115 | .00116 |
| #2 | -.04175 | .00364 | .00296 | -.00288 | -.00167 | -.00006 | .00070 | .00018 | .00027 | .01545 | .00001 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00319** | W **.00372** |
| Stddev | .00011 | .00120 |
| %RSD | 3.3544 | 32.224 |
| #1 | .00311 | .00287 |
| #2 | .00326 | .00457 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5576.0** | **70067.** | **3115.3** |
| Stddev | 1.9 | 340. | 5.5 |
| %RSD | .03385 | .48513 | .17676 |
| #1 | 5577.3 | 69827. | 3111.4 |
| #2 | 5574.7 | 70307. | 3119.2 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 3:16:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01197** | **.10625** | **.01669** | **.10783** | **.01156** | **.00093** | **.11043** | **.19105** | **.00527** | **.01096** | **.01029** |
| Stddev | .00015 | .00032 | .00031 | .00016 | .00021 | .00008 | .00022 | .00070 | .00002 | .00005 | .00015 |
| %RSD | 1.2930 | .30317 | 1.8365 | .15167 | 1.8487 | 8.5711 | .20076 | .36789 | .29729 | .46113 | 1.4722 |
| #1 | .01208 | .10603 | .01647 | .10772 | .01171 | .00088 | .11059 | .19056 | .00528 | .01093 | .01040 |
| #2 | .01186 | .10648 | .01691 | .10795 | .01141 | .00099 | .11028 | .19155 | .00526 | .01100 | .01018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01465** | **.08244** | F **3.9332** | **.00898** | **.20934** | **.01060** | **.02001** | **1.1755** | **.04264** | **3.0700** | W **.01099** |
| Stddev | .00033 | .00075 | .0722 | .00011 | .00126 | .00004 | .00003 | .0119 | .00058 | .0114 | .00027 |
| %RSD | 2.2792 | .90623 | 1.8347 | 1.2155 | .60199 | .41785 | .12905 | 1.0141 | 1.3561 | .37145 | 2.4114 |
| #1 | .01488 | .08192 | 3.8822 | .00906 | .20844 | .01056 | .01999 | 1.1670 | .04223 | 3.0619 | .01118 |
| #2 | .01441 | .08297 | 3.9843 | .00890 | .21023 | .01063 | .02003 | 1.1839 | .04304 | 3.0780 | .01081 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | 3.0000 | | | | | | | | .00900 |
| Range | | | 30.000% | | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04542** | F **.01378** | W **.01809** | **.42966** | **.09953** | **.01098** | W **.01923** | **.01066** | **.01530** | **.07041** | **.01041** |
| Stddev | .00401 | .00027 | .00008 | .00557 | .00000 | .00007 | .00169 | .00008 | .00157 | .04534 | .00033 |
| %RSD | 8.8322 | 1.9603 | .41896 | 1.2962 | .00268 | .63507 | 8.7985 | .76862 | 10.242 | 64.387 | 3.1310 |
| #1 | -.04259 | .01359 | .01814 | .42573 | .09952 | .01103 | .02043 | .01071 | .01419 | .10247 | .01064 |
| #2 | -.04826 | .01397 | .01804 | .43360 | .09953 | .01093 | .01804 | .01060 | .01641 | .03836 | .01017 |
| Check ? | None | Chk Fail | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | .01500 | | | | .01500 | | | | |
| Range | | 30.000% | 20.000% | | | | 20.000% | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02431** | **.01608** |
| Stddev | .00020 | .00104 |
| %RSD | .84142 | 6.4642 |
| #1 | .02445 | .01681 |
| #2 | .02416 | .01534 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5492.8** | **69200.** | **3118.4** |
| Stddev | 4.7 | 13. | 30.4 |
| %RSD | .08501 | .01879 | .97419 |
| #1 | 5489.5 | 69209. | 3096.9 |
| #2 | 5496.1 | 69191. | 3139.9 |

Sample Name: 280-42204-A-2-A Acquired: 5/18/2013 3:18:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **.00955** | **.00257** | **.48055** | **.01393** | **.00004** | **.00122** | **2.6644** | **-.00013** |
| Stddev | .00029 | .00012 | .00392 | .00174 | .00048 | .00000 | .00113 | .0041 | .00009 |
| %RSD | 32.470 | 1.2443 | 152.47 | .36147 | 3.4163 | .58369 | 92.885 | .15497 | 67.284 |
| #1 | .00069 | .00946 | .00534 | .48177 | .01427 | .00004 | .00202 | 2.6615 | -.00020 |
| #2 | .00110 | .00963 | -.00020 | .47932 | .01359 | .00004 | .00042 | 2.6673 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00244** | **.08607** | **.01699** | **1.4560** | **.00950** | **.25892** | **.00538** | **.00067** |
| Stddev | .00018 | .00018 | .00013 | .00131 | .0089 | .00142 | .00070 | .00016 | .00027 |
| %RSD | 100.13 | 7.1984 | .15357 | 7.6842 | .61356 | 14.985 | .27009 | 2.8914 | 39.437 |
| #1 | .00030 | .00232 | .08616 | .01791 | 1.4496 | .00849 | .25942 | .00527 | .00049 |
| #2 | .00005 | .00257 | .08597 | .01607 | 1.4623 | .01050 | .25843 | .00549 | .00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **161.03** | **.00875** | **.48166** | **.02191** | **13.233** | **.00198** | **-.00063** | **5.7891** | **.00060** |
| Stddev | .56 | .00031 | .00307 | .00060 | .067 | .00259 | .00091 | .0048 | .00019 |
| %RSD | .34534 | 3.5775 | .63768 | 2.7607 | .50416 | 130.89 | 143.83 | .08369 | 31.532 |
| #1 | 160.64 | .00897 | .48383 | .02234 | 13.280 | .00015 | .00001 | 5.7926 | .00073 |
| #2 | 161.43 | .00853 | .47949 | .02148 | 13.186 | .00380 | -.00128 | 5.7857 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03208** | **.00033** | **.00107** | **.00024** | **.00876** | **.00041** | **.14612** | **.00322** |
| Stddev | .00014 | .00183 | .00042 | .00061 | .00916 | .00019 | .00060 | .00284 |
| %RSD | .43299 | 557.56 | 39.126 | 259.16 | 104.59 | 47.712 | .41392 | 87.978 |
| #1 | .03198 | .00162 | .00137 | -.00020 | .00228 | .00054 | .14569 | .00122 |
| #2 | .03218 | -.00096 | .00078 | .00067 | .01523 | .00027 | .14654 | .00523 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5417.1** | **68390.** | **3074.1** |
| Stddev | 5.7 | 217. | 7.4 |
| %RSD | .10543 | .31715 | .24028 |
| #1 | 5421.2 | 68236. | 3068.9 |
| #2 | 5413.1 | 68543. | 3079.3 |

Sample Name: 280-42204-A-3-A  Acquired: 5/18/2013 3:21:00  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **.02437** | **.00096** | **.49282** | **.03410** | **-.00011** | **.00084** | **2.7844** | **.00007** |
| Stddev | .00045 | .00021 | .00007 | .00025 | .00008 | .00012 | .00037 | .0088 | .00021 |
| %RSD | 51.028 | .86966 | 7.0104 | .05060 | .22618 | 107.21 | 43.643 | .31760 | 315.65 |
| #1 | .00121 | .02452 | .00092 | .49299 | .03416 | -.00020 | .00110 | 2.7907 | -.00008 |
| #2 | .00057 | .02422 | .00101 | .49264 | .03405 | -.00003 | .00058 | 2.7782 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00052** | **.08149** | **.11823** | **1.6055** | **.01129** | **.29251** | **.00726** | **.00057** |
| Stddev | .00006 | .00016 | .00025 | .00214 | .0043 | .00195 | .00238 | .00003 | .00010 |
| %RSD | 10.637 | 30.322 | .30499 | 1.8060 | .26814 | 17.246 | .81514 | .46183 | 17.509 |
| #1 | .00061 | .00063 | .08167 | .11974 | 1.6086 | .01267 | .29420 | .00723 | .00065 |
| #2 | .00052 | .00041 | .08132 | .11672 | 1.6025 | .00991 | .29082 | .00728 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **163.70** | **.00620** | **.48818** | **.00981** | **13.744** | **-.00016** | **.00309** | **5.8992** | **.00060** |
| Stddev | .68 | .00024 | .00053 | .00045 | .010 | .00171 | .00181 | .0074 | .00006 |
| %RSD | .41364 | 3.8128 | .10790 | 4.5974 | .07468 | 1092.9 | 58.521 | .12521 | 10.149 |
| #1 | 163.22 | .00637 | .48780 | .01013 | 13.737 | -.00137 | .00181 | 5.8940 | .00056 |
| #2 | 164.18 | .00604 | .48855 | .00949 | 13.752 | .00105 | .00436 | 5.9045 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03423** | **.00215** | **.00194** | **.00042** | **.02030** | **.00066** | **.09535** | **.00324** |
| Stddev | .00032 | .00049 | .00015 | .00073 | .02012 | .00015 | .00055 | .00598 |
| %RSD | .93340 | 22.785 | 7.7356 | 174.98 | 99.137 | 22.341 | .57729 | 184.47 |
| #1 | .03445 | .00180 | .00184 | .00094 | .00607 | .00076 | .09574 | -.00099 |
| #2 | .03400 | .00249 | .00205 | -.00010 | .03452 | .00056 | .09496 | .00747 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5418.0** | **68239.** | **3096.9** |
| Stddev | 15.1 | 47. | 18.9 |
| %RSD | .27909 | .06833 | .60885 |
| #1 | 5407.3 | 68272. | 3110.2 |
| #2 | 5428.7 | 68206. | 3083.6 |

Sample Name: 280-42204-A-4-A Acquired: 5/18/2013 3:23:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **.09336** | **.00064** | **.49509** | **.01970** | **-.00004** | **-.00020** | **3.0177** | **.00013** |
| Stddev | .00053 | .00004 | .00008 | .00004 | .00037 | .00010 | .00148 | .0013 | .00002 |
| %RSD | 51.227 | .04648 | 12.156 | .00900 | 1.8845 | 252.40 | 742.32 | .04325 | 14.873 |
| #1 | .00140 | .09333 | .00059 | .49512 | .01996 | .00003 | -.00125 | 3.0187 | .00012 |
| #2 | .00066 | .09339 | .00070 | .49505 | .01944 | -.00011 | .00085 | 3.0168 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **.00134** | **.08546** | **.92340** | **2.3939** | **.01156** | **.46855** | **.01504** | **.00130** |
| Stddev | .00021 | .00015 | .00014 | .00428 | .0329 | .00145 | .00199 | .00002 | .00010 |
| %RSD | 14.433 | 11.383 | .16825 | .46390 | 1.3732 | 12.510 | .42374 | .13525 | 8.0274 |
| #1 | .00157 | .00144 | .08557 | .92643 | 2.3707 | .01054 | .46715 | .01503 | .00138 |
| #2 | .00128 | .00123 | .08536 | .92037 | 2.4172 | .01259 | .46995 | .01506 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **168.99** | **.00718** | **.55050** | **.01287** | **14.375** | **.00369** | **.00319** | **5.8035** | **.00045** |
| Stddev | .76 | .00037 | .00167 | .00027 | .026 | .00146 | .00099 | .0427 | .00067 |
| %RSD | .44789 | 5.1737 | .30334 | 2.0716 | .17946 | 39.637 | 30.957 | .73546 | 150.49 |
| #1 | 169.52 | .00692 | .54932 | .01268 | 14.393 | .00472 | .00249 | 5.7733 | -.00003 |
| #2 | 168.45 | .00744 | .55169 | .01306 | 14.356 | .00266 | .00388 | 5.8337 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03903** | **.00237** | **.00386** | **.00058** | **.00687** | **.00073** | **.09971** | **.00469** |
| Stddev | .00025 | .00189 | .00016 | .00087 | .00885 | .00047 | .00101 | .00220 |
| %RSD | .64375 | 79.564 | 4.0875 | 150.32 | 128.84 | 65.218 | 1.0090 | 46.908 |
| #1 | .03886 | .00104 | .00398 | .00119 | .00061 | .00039 | .10042 | .00625 |
| #2 | .03921 | .00370 | .00375 | -.00004 | .01313 | .00106 | .09900 | .00314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5437.4** | **68706.** | **3108.4** |
| Stddev | 2.9 | 17. | 20.4 |
| %RSD | .05265 | .02533 | .65575 |
| #1 | 5435.4 | 68719. | 3094.0 |
| #2 | 5439.4 | 68694. | 3122.9 |

Sample Name: 280-42178-R-1-B Acquired: 5/18/2013 3:25:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01205** | **.20162** | **.03255** | **.16813** | **.29048** | **-.00011** | **.00144** | **124.16** | **.00009** |
| Stddev | .00056 | .00073 | .00003 | .00011 | .00201 | .00003 | .00071 | .46 | .00003 |
| %RSD | 4.6445 | .35981 | .08063 | .06309 | .69276 | 27.827 | 49.109 | .36936 | 36.022 |
| #1 | .01245 | .20111 | .03257 | .16821 | .29191 | -.00009 | .00094 | 123.83 | .00007 |
| #2 | .01166 | .20213 | .03253 | .16806 | .28906 | -.00013 | .00195 | 124.48 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00579** | **.00922** | **.00926** | **2.6089** | **84.969** | **.00915** | **30.728** | **2.7028** | **.22319** |
| Stddev | .00017 | .00015 | .00034 | .0115 | .266 | .00147 | .047 | .0026 | .00050 |
| %RSD | 2.8856 | 1.5828 | 3.7211 | .43877 | .31300 | 16.037 | .15188 | .09730 | .22382 |
| #1 | .00567 | .00912 | .00950 | 2.6170 | 84.781 | .01019 | 30.695 | 2.7010 | .22284 |
| #2 | .00591 | .00932 | .00901 | 2.6008 | 85.157 | .00811 | 30.761 | 2.7047 | .22354 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **328.27** | **.03677** | **.76502** | **.00360** | **60.689** | **.00362** | **.00391** | **6.2152** | **-.00105** |
| Stddev | .16 | .00044 | .00491 | .00017 | .011 | .00133 | .00622 | .0387 | .00031 |
| %RSD | .04962 | 1.1914 | .64139 | 4.8401 | .01746 | 36.817 | 159.21 | .62241 | 29.735 |
| #1 | 328.39 | .03708 | .76155 | .00347 | 60.696 | .00268 | .00830 | 6.2425 | -.00127 |
| #2 | 328.16 | .03646 | .76849 | .00372 | 60.681 | .00456 | -.00049 | 6.1878 | -.00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6360** | **.00166** | **.00273** | **-.00026** | **.01586** | **.00593** | **.02703** | **.00272** |
| Stddev | .0085 | .00040 | .00015 | .00214 | .00704 | .00122 | .00053 | .00103 |
| %RSD | .51809 | 24.422 | 5.6286 | 831.22 | 44.370 | 20.604 | 1.9560 | 37.722 |
| #1 | 1.6300 | .00194 | .00284 | .00126 | .01089 | .00507 | .02741 | .00200 |
| #2 | 1.6420 | .00137 | .00262 | -.00177 | .02084 | .00679 | .02666 | .00345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5323.3** | **67732.** | **3121.0** |
| Stddev | 11.5 | 193. | 25.4 |
| %RSD | .21681 | .28481 | .81229 |
| #1 | 5331.4 | 67868. | 3138.9 |
| #2 | 5315.1 | 67595. | 3103.0 |

Sample Name: 280-42178-R-2-B Acquired: 5/18/2013 3:28:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174347 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00969** | **48.230** | **.29181** | **2.2834** | **2.7873** | **.00697** | **.01898** | **224.78** | **.00444** |
| Stddev | .00081 | .044 | .00056 | .0024 | .0105 | .00003 | .00308 | .45 | .00014 |
| %RSD | 8.3352 | .09055 | .19297 | .10322 | .37720 | .47933 | 16.228 | .20171 | 3.1249 |
| #1 | .01027 | 48.261 | .29141 | 2.2817 | 2.7947 | .00699 | .01680 | 225.10 | .00434 |
| #2 | .00912 | 48.199 | .29221 | 2.2850 | 2.7799 | .00694 | .02116 | 224.46 | .00454 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09879** | **.14270** | **5.2381** | **62.689** | W **145.13** | **.23082** | **84.238** | F **30.782** | **.43026** |
| Stddev | .00011 | .00002 | .0086 | .340 | .34 | .00154 | .154 | .016 | .00004 |
| %RSD | .11479 | .01266 | .16344 | .54265 | .23327 | .66846 | .18272 | .05242 | .00948 |
| #1 | .09887 | .14269 | 5.2442 | 62.930 | 145.36 | .23191 | 84.347 | 30.771 | .43029 |
| #2 | .09871 | .14272 | 5.2321 | 62.449 | 144.89 | .22973 | 84.129 | 30.794 | .43024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | 100.00 | | | 20.000 | |
| Low Limit | | | | | -.50000 | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1598.4** | **.35897** | **3.7785** | **.59183** | **280.85** | **.01286** | **.00150** | W **54.335** | **.09765** |
| Stddev | 7.8 | .00052 | .0112 | .00002 | .11 | .00039 | .00097 | .066 | .00124 |
| %RSD | .48497 | .14408 | .29606 | .00296 | .03854 | 3.0408 | 64.556 | .12180 | 1.2676 |
| #1 | 1603.9 | .35860 | 3.7706 | .59184 | 280.77 | .01259 | .00081 | 54.382 | .09678 |
| #2 | 1592.9 | .35933 | 3.7864 | .59182 | 280.93 | .01314 | .00218 | 54.289 | .09853 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 500.00 | | | | | | | 50.000 | |
| Low Limit | 10.000 | | | | | | | -.10000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2514** | **.02068** | **.24209** | W **-.01947** | **-.02433** | **.13448** | **5.7513** | **.01109** |
| Stddev | .0008 | .00022 | .00046 | .00109 | .03200 | .00047 | .0023 | .00158 |
| %RSD | .06512 | 1.0408 | .19112 | 5.5846 | 131.53 | .35251 | .04061 | 14.225 |
| #1 | 1.2520 | .02083 | .24242 | -.02024 | -.04695 | .13481 | 5.7530 | .01220 |
| #2 | 1.2508 | .02053 | .24177 | -.01870 | -.00170 | .13414 | 5.7497 | .00997 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5391.6** | **67929.** | **3194.3** |
| Stddev | 9.9 | 238. | 14.2 |
| %RSD | .18272 | .34979 | .44474 |
| #1 | 5384.6 | 67761. | 3184.3 |
| #2 | 5398.5 | 68097. | 3204.4 |

Sample Name: CCVH-2050355 Acquired: 5/18/2013 3:31:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **46.674** | **.00060** | **.00532** | **.00098** | **-.00013** | **1.0263** | **.00754** | **-.00069** | **.00201** | **-.00015** | **-.00149** |
| Stddev | .00072 | .045 | .00048 | .00062 | .00029 | .00001 | .0007 | .00154 | .00022 | .00001 | .00014 | .00031 |
| %RSD | 150.47 | .09580 | 79.324 | 11.654 | 29.936 | 4.8664 | .06841 | 20.409 | 31.384 | .38513 | 97.490 | 20.940 |
| #1 | -.00003 | 46.706 | .00094 | .00575 | .00077 | -.00012 | 1.0258 | .00863 | -.00085 | .00200 | -.00025 | -.00127 |
| #2 | .00099 | 46.643 | .00026 | .00488 | .00118 | -.00013 | 1.0268 | .00645 | -.00054 | .00201 | -.00005 | -.00171 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **38.225** | **.71645** | **.00013** | **.01497** | **.00067** | **-.00152** | F **311.68** | **.00138** | **.00948** | **.00044** | **5.1978** | **.00239** |
| Stddev | .039 | .04718 | .00351 | .00024 | .00012 | .00001 | .20 | .00038 | .00068 | .00011 | .0085 | .00132 |
| %RSD | .10116 | 6.5859 | 2736.3 | 1.5909 | 18.437 | .73142 | .06348 | 27.462 | 7.1894 | 25.318 | .16301 | 55.541 |
| #1 | 38.252 | .68308 | -.00235 | .01480 | .00076 | -.00151 | 311.54 | .00165 | .00996 | .00052 | 5.2037 | .00332 |
| #2 | 38.198 | .74981 | .00261 | .01513 | .00059 | -.00153 | 311.82 | .00112 | .00900 | .00036 | 5.1918 | .00145 |
| Check ? | Chk Fail | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | 50.000 | | | | | | 250.00 | | | | | |
| Range | -10.000% | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00393** | **.02980** | **-.00057** | **.00033** | **5.2804** | **.00352** | **-.00147** | **10.152** | **.00021** | **.00328** | **-.06255** |
| Stddev | .00430 | .01219 | .00031 | .00007 | .0148 | .00027 | .00047 | .042 | .00029 | .00011 | .00194 |
| %RSD | 109.43 | 40.920 | 54.713 | 20.921 | .28047 | 7.5432 | 31.824 | .41112 | 139.49 | 3.2094 | 3.0956 |
| #1 | .00698 | .02118 | -.00035 | .00037 | 5.2699 | .00333 | -.00114 | 10.122 | .00000 | .00320 | -.06392 |
| #2 | .00089 | .03842 | -.00079 | .00028 | 5.2908 | .00371 | -.00180 | 10.181 | .00042 | .00335 | -.06118 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5322.5** | **67122.** | **3051.3** |
| Stddev | 2.6 | 339. | 2.6 |
| %RSD | .04931 | .50563 | .08500 |
| #1 | 5320.7 | 67362. | 3049.5 |
| #2 | 5324.4 | 66882. | 3053.2 |

Sample Name: CCV-2050339 Acquired: 5/18/2013 3:33:42 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50743** | **.49940** | **.97874** | **.51564** | **.53306** | F **.43129** | **.00492** | **4.5055** | **.49912** | **.50779** | **.48656** | **.48259** |
| Stddev | .00160 | .00075 | .00289 | .00015 | .00258 | .00207 | .00159 | .0125 | .00063 | .00512 | .00023 | .00053 |
| %RSD | .31474 | .15079 | .29493 | .02879 | .48360 | .47934 | 32.338 | .27668 | .12555 | 1.0074 | .04791 | .11021 |
| #1 | .50856 | .49994 | .97670 | .51554 | .53488 | .43275 | .00379 | 4.4967 | .49868 | .50418 | .48672 | .48296 |
| #2 | .50630 | .49887 | .98078 | .51575 | .53123 | .42983 | .00604 | 4.5143 | .49957 | .51141 | .48639 | .48221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .50000 | | | | | | |
| Range | | | | | | -10.000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **1.9309** | F **59.735** | F **1.1841** | **19.541** | **.49871** | **.47625** | F **6.3801** | **.49631** | **1.0147** | **.99919** | **.12132** | **1.0069** |
| Stddev | .0056 | .288 | .0002 | .001 | .00059 | .00355 | .0369 | .00322 | .0077 | .00383 | .00160 | .0028 |
| %RSD | .28935 | .48215 | .01973 | .00610 | .11740 | .74452 | .57820 | .64855 | .76282 | .38323 | 1.3194 | .28088 |
| #1 | 1.9348 | 59.938 | 1.1842 | 19.541 | .49829 | .47375 | 6.4062 | .49404 | 1.0093 | .99648 | .12019 | 1.0049 |
| #2 | 1.9269 | 59.531 | 1.1839 | 19.540 | .49912 | .47876 | 6.3540 | .49859 | 1.0202 | 1.0019 | .12245 | 1.0089 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0210** | F **4.1422** | **.95637** | **.52824** | **.00375** | **.49317** | **.96841** | **.02683** | **.48383** | **.49092** | **.45556** |
| Stddev | .0022 | .0268 | .00485 | .00055 | .00139 | .00013 | .00570 | .01068 | .00071 | .00026 | .00231 |
| %RSD | .21355 | .64614 | .50728 | .10410 | 37.104 | .02723 | .58849 | 39.807 | .14652 | .05285 | .50636 |
| #1 | 1.0194 | 4.1233 | .95294 | .52863 | .00474 | .49327 | .96438 | .03438 | .48333 | .49111 | .45719 |
| #2 | 1.0225 | 4.1611 | .95980 | .52786 | .00277 | .49308 | .97244 | .01928 | .48433 | .49074 | .45393 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 5.0000 | | | | | | | | | |
| Range | | -10.000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5413.1** | **68439.** | **3068.9** |
| Stddev | 7.4 | 24. | 7.1 |
| %RSD | .13706 | .03509 | .23029 |
| #1 | 5418.3 | 68456. | 3063.9 |
| #2 | 5407.8 | 68423. | 3073.9 |

Sample Name: CCB Acquired: 5/18/2013 3:35:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00193** | **.00199** | **.00113** | W **.00097** | **-.00002** | **.00320** | **.00233** | **-.00017** | **.00005** | **-.00007** |
| Stddev | .00062 | .00031 | .00120 | .00006 | .00040 | .00013 | .00069 | .00434 | .00005 | .00009 | .00008 |
| %RSD | 110.58 | 16.277 | 60.239 | 5.6533 | 40.943 | 573.56 | 21.526 | 185.70 | 27.989 | 181.92 | 120.90 |
| #1 | .00012 | .00215 | .00284 | .00108 | .00125 | -.00011 | .00368 | .00540 | -.00013 | .00011 | -.00013 |
| #2 | .00100 | .00171 | .00114 | .00117 | .00069 | .00007 | .00271 | -.00073 | -.00020 | -.00001 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **.00198** | W **.24739** | F **-.00680** | **.00106** | W **.00034** | **.00039** | F **.13029** | **.00061** | **.00313** | **.00072** |
| Stddev | .00022 | .00406 | .01156 | .00210 | .00033 | .00002 | .00012 | .01629 | .00011 | .00136 | .00057 |
| %RSD | 38.063 | 204.76 | 4.6728 | 30.972 | 30.822 | 5.9146 | 31.015 | 12.500 | 17.735 | 43.483 | 80.140 |
| #1 | -.00074 | -.00089 | .23921 | -.00828 | .00129 | .00036 | .00047 | .14181 | .00054 | .00217 | .00031 |
| #2 | -.00043 | .00486 | .25556 | -.00531 | .00083 | .00033 | .00030 | .11877 | .00069 | .00409 | .00112 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .23700 | .00522 | | .00025 | | .10000 | | | |
| Low Limit | | | -.23700 | -.00522 | | -.00025 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03719** | W **.00377** | **.00226** | **-.01216** | **-.00143** | **.00011** | **.00149** | **.00012** | **.00011** | **.03535** | **-.00034** |
| Stddev | .00030 | .00102 | .00413 | .00558 | .00033 | .00006 | .00205 | .00030 | .00124 | .02084 | .00002 |
| %RSD | .80530 | 27.128 | 182.89 | 45.875 | 23.279 | 50.738 | 137.51 | 243.53 | 1136.0 | 58.957 | 6.5802 |
| #1 | -.03740 | .00305 | .00517 | -.00821 | -.00166 | .00015 | .00294 | -.00009 | .00099 | .02061 | -.00033 |
| #2 | -.03698 | .00450 | -.00066 | -.01610 | -.00119 | .00007 | .00004 | .00033 | -.00077 | .05009 | -.00036 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00337** | W **.00350** |
| Stddev | .00044 | .00129 |
| %RSD | 13.034 | 36.805 |
| #1 | .00306 | .00441 |
| #2 | .00368 | .00259 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5550.0** | **69341.** | **3058.6** |
| Stddev | 8.2 | 33. | 26.6 |
| %RSD | .14690 | .04695 | .86882 |
| #1 | 5544.3 | 69364. | 3039.8 |
| #2 | 5555.8 | 69318. | 3077.4 |

Sample Name: CCVL2057887 Acquired: 5/18/2013 3:38:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01101** | **.10318** | **.01489** | **.10385** | **.01139** | F **.00069** | **.10493** | **.17757** | **.00500** | **.01075** | **.00991** |
| Stddev | .00088 | .00082 | .00056 | .00095 | .00012 | .00014 | .00091 | .00001 | .00004 | .00029 | .00001 |
| %RSD | 7.9823 | .79181 | 3.7826 | .91666 | 1.0252 | 21.073 | .87041 | .00750 | .84893 | 2.6724 | .06686 |
| #1 | .01163 | .10260 | .01529 | .10317 | .01130 | .00079 | .10558 | .17756 | .00497 | .01054 | .00990 |
| #2 | .01038 | .10376 | .01449 | .10452 | .01147 | .00059 | .10429 | .17758 | .00503 | .01095 | .00991 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -30.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01441** | **.09024** | W **3.8501** | W **.00760** | **.20365** | **.01067** | **.01919** | F **1.3252** | **.04101** | **2.9728** | **.00909** |
| Stddev | .00069 | .00357 | .0411 | .00526 | .00192 | .00003 | .00005 | .0097 | .00024 | .0032 | .00106 |
| %RSD | 4.8134 | 3.9570 | 1.0662 | 69.180 | .94039 | .23850 | .27388 | .73070 | .58234 | .10693 | 11.714 |
| #1 | .01490 | .08772 | 3.8211 | .01131 | .20500 | .01065 | .01922 | 1.3320 | .04118 | 2.9705 | .00833 |
| #2 | .01392 | .09277 | 3.8791 | .00388 | .20229 | .01069 | .01915 | 1.3183 | .04084 | 2.9750 | .00984 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | .01000 | | | | 1.0000 | | | |
| Range | | | 20.000% | -20.000% | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03483** | W **.01211** | W **.01832** | **.40746** | **.09581** | **.01070** | **.01541** | **.00995** | **.01543** | **.07196** | **.00952** |
| Stddev | .00040 | .00235 | .00016 | .01116 | .00136 | .00011 | .00113 | .00045 | .00032 | .00823 | .00001 |
| %RSD | 1.1381 | 19.408 | .89219 | 2.7385 | 1.4215 | 1.0222 | 7.3176 | 4.5093 | 2.0960 | 11.435 | .08630 |
| #1 | -.03511 | .01044 | .01844 | .39957 | .09484 | .01063 | .01461 | .00963 | .01565 | .06615 | .00952 |
| #2 | -.03455 | .01377 | .01821 | .41535 | .09677 | .01078 | .01621 | .01027 | .01520 | .07778 | .00953 |
| Check ? | None | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | .01500 | | | | | | | | |
| Range | | 20.000% | 20.000% | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02296** | W **.01877** |
| Stddev | .00020 | .00130 |
| %RSD | .89125 | 6.9030 |
| #1 | .02310 | .01785 |
| #2 | .02282 | .01969 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5462.9** | **69262.** | **3090.6** |
| Stddev | 2.6 | 228. | 11.2 |
| %RSD | .04767 | .32975 | .36263 |
| #1 | 5464.7 | 69423. | 3098.5 |
| #2 | 5461.1 | 69100. | 3082.7 |

# *ICP Data Review Checklist*

| | | |
|---|---|---|
| **TALS BATCH NUMBER:** 174937, 174938, 174939, 174940 | | **Earliest due date:** 5/17/13 |
| **Run Date:** 5/17/13 | **Analyst:** HE13 | **Instrument:** 26 |
| **QC programs/Methods Run:** 200.7, 6010B, 6010C, DoD v4.1 | | |

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < 1/2 RL or CRDL (CLP) or < 2.2x MDL 200.7 ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | ✓ | | | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | ✓ | | | ✓ |
| 5. Serial dilution done per prep batch (or per SDG for CLP)? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP, DOD & AFCEE only)? NCM Whether needed for DODV3, AFCEE 4.0, 6010c? | ✓ | | | ✓ |
| **B. Calibration/Instrument Run QC** | | | | |
| 1. ICV/CCV analyzed at appropriate frequency and within control limits ? (**6010B**: CLP = 90 - 110%; **200.7:** ICV = 95 - 105%, CCV 90-110%) If not in control, was the ICV or CCV reanalyzed twice to show return to control as per NELAP? | ✓ | | | ✓ |
| 2. ICB/CCB analyzed at appropriate frequency and <1/2RL or < 2X MDL ( DOD V3,AFCEE 4.0)? Was it less than the MDLV (6010C) | ✓ | | | ✓ |
| 3. High Standard (HIGH) reanalyzed before samples and recovered within QC limits? (+-5%) | ✓ | | | ✓ |
| 4. RL STD run and recovered within QC limits ? (± 50% for non-CLP, ± 20% for DoD V3 / AFCEE 4.0 / USACE) | ✓ | | | ✓ |
| 5. Was the LLICV/LLCCV analyzed at appropriate frequency for 6010C and within control (+-30 % or +-20%) | ✓ | | | ✓ |
| 6. ICSA/ICSAB run at required frequency and within SOP limits? (ICSA < 2X MDL AFCEE 4.0, DOD V3 or <RL std work or <MDLV 6010C)) | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. For 6010B, were samples with concentrations > the linear range for any parameter diluted and reanalyzed? For 200.7, were samples with concentrations within 90% of the linear range diluted and reanalyzed? | ✓ | | | ✓ |
| 2. Are all reported results bracketed by in control QC? | ✓ | | | ✓ |
| **D. Other** | | | | |
| 1. Are all nonconformances documented appropriately? | ✓ | | | ✓ |
| 2. Calculations checked for errors? | ✓ | | | ✓ |
| 3. Transcriptions checked for errors? (Example: Are dilution factors that are entered into the sequence log correct?) | ✓ | | | ✓ |
| 4. All client/project specific requirements met? | ✓ | | | ✓ |
| 5. Date/time of analysis verified as correct? | ✓ | | | ✓ |
| 6. PDF attached, verified uncorrupted? | ✓ | | | ✓ |

**Analyst:** Heidi Bowen **Date:** 5/18/13

**Comments:**

**2nd Level Reviewer:** D. Conner **Date:** 5/20/13

**Comments:**

TestAmerica Denver

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# *ICP Data Review Checklist*

| | | |
|---|---|---|
| **TALS BATCH NUMBER:** 175048, 175050 | | **Earliest due date:** 5/17/13 |
| **Run Date:** 5/18/13 | **Analyst:** HEB | **Instrument:** 26 |
| **QC programs/Methods Run:** 200.7, 6010B, 6010C, DoD-4.1 | | |

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < 1/2 RL or CRDL (CLP) or < 2.2x MDL 200.7 ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | ✓ | | | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | ✓ | | | ✓ |
| 5. Serial dilution done per prep batch (or per SDG for CLP)? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP, DOD & AFCEE only)? NCM Whether needed for DODV3, AFCEE 4.0, 6010c? | ✓ | | | ✓ |
| **B. Calibration/Instrument Run QC** | | | | |
| 1. ICV/CCV analyzed at appropriate frequency and within control limits ? (**6010B**: CLP = 90 - 110%; **200.7:** ICV = 95 - 105%, CCV 90-110%) If not in control, was the ICV or CCV reanalyzed twice to show return to control as per NELAP? | ✓ | | | ✓ |
| 2. ICB/CCB analyzed at appropriate frequency and <1/2RL or < 2X MDL ( DOD V3,AFCEE 4.0)? Was it less than the MDLV (6010C) | ✓ | | | ✓ |
| 3. High Standard (HIGH) reanalyzed before samples and recovered within QC limits? (+-5%) | ✓ | | | ✓ |
| 4. RL STD run and recovered within QC limits ? (± 50% for non-CLP, ± 20% for DoD V3 / AFCEE 4.0 / USACE) | ✓ | | | ✓ |
| 5. Was the LLICV/LLCCV analyzed at appropriate frequency for 6010C and within control (+-30 % or +-20%) | ✓ | | | ✓ |
| 6. ICSA/ICSAB run at required frequency and within SOP limits? (ICSA < 2X MDL AFCEE 4.0, DOD V3 or <RL std work or <MDLV 6010C)) | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. For 6010B, were samples with concentrations > the linear range for any parameter diluted and reanalyzed? For 200.7, were samples with concentrations within 90% of the linear range diluted and reanalyzed? | ✓ | | | ✓ |
| 2. Are all reported results bracketed by in control QC? | ✓ | | | ✓ |
| **D. Other** | | | | |
| 1. Are all nonconformances documented appropriately? | ✓ | | | ✓ |
| 2. Calculations checked for errors? | ✓ | | | ✓ |
| 3. Transcriptions checked for errors? (Example: Are dilution factors that are entered into the sequence log correct?) | ✓ | | | ✓ |
| 4. All client/project specific requirements met? | ✓ | | | ✓ |
| 5. Date/time of analysis verified as correct? | ✓ | | | ✓ |
| 6. PDF attached, verified uncorrupted? | ✓ | | | ✓ |

**Analyst:** Heidi Brown **Date:** 5/20/13

**Comments:**

**2nd Level Reviewer:** Cyn Tindell **Date:** 5/21/13

**Comments:**

Sample Name: ICIS Acquired: 5/18/2013 8:53:34 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00260** | **.00046** | **-.02517** | **-.00066** | **.00057** | **.02192** | **.00057** | **-.00123** | **.00919** | **.00090** | **-.00047** | **-.00135** |
| Stddev | .00004 | .00001 | .00032 | .00005 | .00001 | .00124 | .00111 | .00014 | .00138 | .00010 | .00036 | .00020 |
| %RSD | 1.3920 | 1.1444 | 1.2831 | 6.8464 | 1.4270 | 5.6602 | 196.06 | 11.560 | 15.065 | 10.681 | 78.242 | 15.047 |
| #1 | -.00258 | .00046 | -.02494 | -.00063 | .00058 | .02279 | -.00022 | -.00113 | .01017 | .00084 | -.00021 | -.00121 |
| #2 | -.00263 | .00046 | -.02539 | -.00070 | .00056 | .02104 | .00135 | -.00133 | .00821 | .00097 | -.00072 | -.00150 |

| Elem | Cu3247 | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00204** | **.00048** | **.00182** | **.01598** | **.00006** | **-.00004** | **-.00013** | **.00021** | **.00674** | **-.01097** | **-.00099** | **-.00014** |
| Stddev | .00006 | .00038 | .00023 | .00120 | .00075 | .00003 | .00005 | .00014 | .00073 | .00079 | .00011 | .00010 |
| %RSD | 2.9630 | 79.538 | 12.492 | 7.4809 | 1269.5 | 62.754 | 36.572 | 69.236 | 10.873 | 7.2141 | 11.297 | 70.702 |
| #1 | .00208 | .00075 | .00198 | .01682 | .00059 | -.00006 | -.00016 | .00011 | .00726 | -.01041 | -.00091 | -.00007 |
| #2 | .00199 | .00021 | .00166 | .01513 | -.00047 | -.00002 | -.00010 | .00031 | .00622 | -.01153 | -.00107 | -.00021 |

| Elem | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00150** | **-.00057** | **-.00037** | **.00004** | **.00104** | **-.00015** | **-.00106** | **.00002** | **-.00038** | **-.00078** | **.00065** | **.00042** |
| Stddev | .00007 | .00010 | .00010 | .00003 | .00011 | .00006 | .00033 | .00007 | .00004 | .00004 | .00017 | .00004 |
| %RSD | 4.5005 | 17.971 | 27.494 | 78.636 | 10.658 | 41.914 | 30.825 | 305.95 | 11.857 | 5.6073 | 25.724 | 10.601 |
| #1 | .00145 | -.00065 | -.00030 | .00006 | .00096 | -.00019 | -.00130 | .00007 | -.00034 | -.00081 | .00053 | .00045 |
| #2 | .00155 | -.00050 | -.00044 | .00002 | .00112 | -.00010 | -.00083 | -.00003 | -.00041 | -.00075 | .00077 | .00039 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **-.00002** | **-.00238** |
| Stddev | .00001 | .00016 |
| %RSD | 71.542 | 6.6978 |
| #1 | -.00001 | -.00227 |
| #2 | -.00002 | -.00250 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5515.8** | **69441.** | **2970.2** |
| Stddev | 4.9 | 135. | 18.1 |
| %RSD | .08887 | .19466 | .60886 |
| #1 | 5512.4 | 69536. | 2957.4 |
| #2 | 5519.3 | 69345. | 2983.0 |

Sample Name: IC1 Acquired: 5/18/2013 8:56:05 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.22284** | **.26598** | **.14218** | **.35342** | **4.8456** | **6.4684** | **1.8242** | **1.7116** | **.93911** | **1.1648** | **.28647** | **.50451** | **7.9109** |
| Stddev | .00014 | .00062 | .00020 | .00045 | .0069 | .0080 | .0043 | .0032 | .00021 | .0015 | .00021 | .00059 | .0034 |
| %RSD | .06075 | .23418 | .14077 | .12832 | .14129 | .12344 | .23816 | .18602 | .02184 | .12684 | .07353 | .11692 | .04300 |
| #1 | .22274 | .26642 | .14232 | .35374 | 4.8408 | 6.4628 | 1.8211 | 1.7139 | .93925 | 1.1658 | .28662 | .50410 | 7.9085 |
| #2 | .22293 | .26554 | .14204 | .35310 | 4.8505 | 6.4741 | 1.8273 | 1.7094 | .93896 | 1.1637 | .28632 | .50493 | 7.9133 |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3.4387** | **.82006** | **1.1068** | **.60339** | **2.4005** | **.78891** | **.12268** | **.49009** | **.23114** | **.12068** | **.33289** | **.30372** | **9.1954** |
| Stddev | .0058 | .00011 | .0021 | .00009 | .0014 | .00026 | .00021 | .00114 | .00027 | .00024 | .00206 | .00025 | .0040 |
| %RSD | .16904 | .01342 | .18482 | .01485 | .05711 | .03297 | .17253 | .23355 | .11673 | .19695 | .61805 | .08388 | .04355 |
| #1 | 3.4428 | .82014 | 1.1054 | .60345 | 2.4014 | .78873 | .12283 | .49090 | .23095 | .12085 | .33435 | .30390 | 9.1925 |
| #2 | 3.4345 | .81999 | 1.1083 | .60333 | 2.3995 | .78909 | .12253 | .48928 | .23133 | .12051 | .33144 | .30354 | 9.1982 |

| Elem | Ti3349 | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.30220** | **.22638** | **.19930** | **.03894** | **.32735** |
| Stddev | .00038 | .00012 | .00049 | .00003 | .00267 |
| %RSD | .12503 | .05115 | .24800 | .06678 | .81439 |
| #1 | .30193 | .22630 | .19895 | .03892 | .32547 |
| #2 | .30246 | .22646 | .19965 | .03896 | .32924 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5470.0** | **68699.** | **2969.4** |
| Stddev | 15.2 | 30. | 11.5 |
| %RSD | .27842 | .04359 | .38656 |
| #1 | 5459.3 | 68678. | 2961.3 |
| #2 | 5480.8 | 68720. | 2977.5 |

Sample Name: IC2 Acquired: 5/18/2013 8:58:20 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **4.6691** | **.25248** | **.46373** | **4.2564** | **.42035** | **.47262** | **.09301** |
| Stddev | .0054 | .00123 | .00049 | .0079 | .00080 | .00143 | .00016 |
| %RSD | .11599 | .48753 | .10641 | .18484 | .19052 | .30288 | .16776 |
| | | | | | | | |
| #1 | 4.6653 | .25335 | .46408 | 4.2620 | .42091 | .47161 | .09290 |
| #2 | 4.6730 | .25161 | .46338 | 4.2508 | .41978 | .47363 | .09312 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5367.6** | **67496.** | **2965.1** |
| Stddev | 12.6 | 213. | 4.3 |
| %RSD | .23550 | .31547 | .14576 |
| | | | |
| #1 | 5358.7 | 67647. | 2962.0 |
| #2 | 5376.5 | 67346. | 2968.1 |

Sample Name: S1-2058324 Acquired: 5/18/2013 9:00:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0012** | **1.0095** | **1.9924** | **1.0034** | **1.0008** | **.99971** | **.00489** | **10.036** | **1.0005** | **1.0018** | **.99973** | **.99853** | **5.0104** |
| Stddev | .0019 | .0017 | .0043 | .0015 | .0037 | .00375 | .00325 | .007 | .0012 | .0003 | .00137 | .00050 | .0008 |
| %RSD | .19035 | .16999 | .21403 | .15073 | .37132 | .37511 | 66.409 | .06804 | .12221 | .02749 | .13670 | .05017 | .01505 |
| #1 | 1.0025 | 1.0082 | 1.9954 | 1.0024 | 1.0034 | 1.0024 | .00719 | 10.041 | .99960 | 1.0016 | 1.0007 | .99888 | 5.0109 |
| #2 | .99983 | 1.0107 | 1.9893 | 1.0045 | .99815 | .99706 | .00260 | 10.031 | 1.0013 | 1.0020 | .99876 | .99817 | 5.0099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **100.41** | **2.0066** | **40.023** | **1.0033** | **.99740** | **10.190** | **10.077** | **1.0015** | **2.0075** | **2.0059** | **.00044** | **2.0022** | **2.0035** |
| Stddev | .21 | .0038 | .029 | .0003 | .00118 | .065 | .110 | .0007 | .0004 | .0034 | .00215 | .0010 | .0036 |
| %RSD | .20461 | .18953 | .07340 | .03240 | .11840 | .64126 | 1.0958 | .06885 | .02036 | .16679 | 488.79 | .04998 | .18141 |
| #1 | 100.55 | 2.0093 | 40.044 | 1.0031 | .99657 | 10.236 | 10.155 | 1.0020 | 2.0078 | 2.0082 | .00196 | 2.0015 | 2.0009 |
| #2 | 100.26 | 2.0039 | 40.002 | 1.0035 | .99824 | 10.144 | 9.9987 | 1.0010 | 2.0073 | 2.0035 | -.00108 | 2.0029 | 2.0060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.009** | **2.0023** | **1.0046** | **.00028** | **1.0058** | **1.9988** | **-.03406** | **1.0012** | **1.0020** | **1.0029** |
| Stddev | .039 | .0038 | .0027 | .00252 | .0002 | .0008 | .00452 | .0006 | .0008 | .0015 |
| %RSD | .39078 | .19147 | .27166 | 903.36 | .01709 | .03913 | 13.274 | .05836 | .07878 | .15376 |
| #1 | 9.9809 | 2.0050 | 1.0065 | .00206 | 1.0057 | 1.9993 | -.03726 | 1.0017 | 1.0026 | 1.0040 |
| #2 | 10.036 | 1.9996 | 1.0027 | -.00150 | 1.0059 | 1.9982 | -.03086 | 1.0008 | 1.0014 | 1.0018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5422.3** | **68245.** | **2987.8** |
| Stddev | 4.4 | 109. | 42.3 |
| %RSD | .08196 | .15905 | 1.4149 |
| #1 | 5419.1 | 68168. | 3017.6 |
| #2 | 5425.4 | 68321. | 2957.9 |

Sample Name: S2-2058326 Acquired: 5/18/2013 9:03:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **99.229** | **.00020** | **.00446** | **.00139** | **.00012** | **1.9873** | **-.00127** | **-.00119** | **.00396** | **.00019** | **.00229** | **99.412** |
| Stddev | .00006 | .508 | .00514 | .00006 | .00001 | .00017 | .0025 | .00405 | .00000 | .00019 | .00009 | .00047 | .080 |
| %RSD | 74.816 | .51238 | 2607.7 | 1.2762 | .41440 | 136.33 | .12494 | 318.91 | .16831 | 4.8239 | 50.132 | 20.683 | .08010 |
| #1 | -.00013 | 99.588 | -.00344 | .00442 | .00138 | .00024 | 1.9891 | .00159 | -.00119 | .00382 | .00025 | .00263 | 99.468 |
| #2 | -.00004 | 98.869 | .00383 | .00450 | .00139 | .00000 | 1.9855 | -.00413 | -.00119 | .00409 | .00012 | .00196 | 99.356 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34092** | **.00318** | **.02163** | **.00036** | **-.00331** | **496.79** | **.00187** | **.01113** | **.00148** | **9.9724** | **.00209** | **.01208** | **.03532** |
| Stddev | .07116 | .00225 | .00702 | .00007 | .00001 | 2.53 | .00015 | .00143 | .00060 | .0111 | .00310 | .00371 | .02080 |
| %RSD | 20.872 | 70.974 | 32.443 | 18.605 | .20943 | .50980 | 8.2500 | 12.855 | 40.417 | .11087 | 148.66 | 30.698 | 58.886 |
| #1 | .39123 | .00477 | .02659 | .00040 | -.00331 | 498.58 | .00198 | .01214 | .00191 | 9.9646 | -.00011 | .01470 | .05003 |
| #2 | .29060 | .00158 | .01667 | .00031 | -.00332 | 495.00 | .00176 | .01012 | .00106 | 9.9802 | .00428 | .00946 | .02062 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00294** | **.00126** | **9.9077** | **.00732** | **-.00283** | **20.035** | **.00048** | **.00311** | **-.05460** |
| Stddev | .00005 | .00007 | .0031 | .00009 | .00231 | .020 | .00001 | .00010 | .00126 |
| %RSD | 1.5478 | 5.3636 | .03081 | 1.2282 | 81.552 | .09760 | 2.7138 | 3.1688 | 2.3068 |
| #1 | .00290 | .00130 | 9.9099 | .00726 | -.00120 | 20.048 | .00047 | .00304 | -.05371 |
| #2 | .00297 | .00121 | 9.9055 | .00738 | -.00447 | 20.021 | .00049 | .00318 | -.05549 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5336.3** | **67359.** | **2961.9** |
| Stddev | 2.1 | 41. | 24.0 |
| %RSD | .03949 | .06030 | .81103 |
| #1 | 5334.8 | 67330. | 2944.9 |
| #2 | 5337.8 | 67388. | 2978.9 |

Sample Name: ICVH-2050069 Acquired: 5/18/2013 9:05:33 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **38.974** | **.00156** | **.00239** | **.00356** | **.00009** | **.50096** | **-.00319** | **.00001** | **.00159** | **.00056** | **.00150** | **77.606** |
| Stddev | .00017 | .154 | .00085 | .00023 | .00002 | .00011 | .00089 | .00320 | .00019 | .00011 | .00030 | .00060 | .385 |
| %RSD | 35.758 | .39548 | 54.160 | 9.6395 | .42864 | 120.17 | .17796 | 100.60 | 1387.8 | 7.0717 | 54.007 | 40.373 | .49614 |
| #1 | -.00035 | 39.083 | .00096 | .00256 | .00355 | .00001 | .50033 | -.00545 | -.00012 | .00167 | .00035 | .00193 | 77.334 |
| #2 | -.00059 | 38.865 | .00216 | .00223 | .00357 | .00017 | .50159 | -.00092 | .00014 | .00151 | .00077 | .00107 | 77.878 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11822** | **-.00051** | **-.00183** | **.00084** | **-.00093** | **40.589** | **.00135** | **.00536** | **-.00043** | **3.8186** | **-.00064** | **.00294** | **.01258** |
| Stddev | .08399 | .00095 | .00271 | .00001 | .00003 | .524 | .00028 | .00047 | .00080 | .0014 | .00079 | .00123 | .02133 |
| %RSD | 71.043 | 185.99 | 147.81 | 1.2791 | 3.1917 | 1.2913 | 20.588 | 8.7717 | 185.93 | .03708 | 124.62 | 41.918 | 169.60 |
| #1 | .17760 | .00016 | -.00375 | .00083 | -.00091 | 40.218 | .00155 | .00569 | -.00100 | 3.8176 | -.00008 | .00381 | .02766 |
| #2 | .05883 | -.00118 | .00008 | .00084 | -.00095 | 40.960 | .00115 | .00502 | .00014 | 3.8196 | -.00120 | .00207 | -.00251 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **.00050** | **2.9393** | **.00224** | **.00052** | **4.9629** | **.00081** | **.00387** | **-.01878** |
| Stddev | .00032 | .00016 | .0054 | .00034 | .00089 | .0467 | .00004 | .00026 | .00097 |
| %RSD | 16.050 | 32.184 | .18262 | 15.122 | 172.65 | .94154 | 5.1025 | 6.7441 | 5.1864 |
| #1 | .00175 | .00062 | 2.9355 | .00200 | .00114 | 4.9959 | .00084 | .00369 | -.01809 |
| #2 | .00220 | .00039 | 2.9431 | .00248 | -.00011 | 4.9298 | .00079 | .00406 | -.01947 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5477.3** | **68288.** | **2994.1** |
| Stddev | 15.0 | 180. | 2.9 |
| %RSD | .27400 | .26398 | .09745 |
| #1 | 5466.7 | 68161. | 2992.0 |
| #2 | 5487.9 | 68416. | 2996.1 |

Sample Name: ICV-2050070 Acquired: 5/18/2013 9:08:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25627** | F **.29002** | **.24164** | **.25089** | **.25541** | **.24631** | **.00270** | **2.0500** | **.25346** | **.25410** | **.25350** | **.24877** |
| Stddev | .00080 | .00251 | .00107 | .00054 | .00021 | .00144 | .00039 | .0185 | .00041 | .00019 | .00000 | .00027 |
| %RSD | .31126 | .86669 | .44476 | .21462 | .08249 | .58567 | 14.551 | .90366 | .16058 | .07296 | .00140 | .10717 |
| #1 | .25571 | .29180 | .24240 | .25051 | .25526 | .24733 | .00298 | 2.0631 | .25317 | .25396 | .25351 | .24896 |
| #2 | .25683 | .28824 | .24088 | .25127 | .25556 | .24529 | .00242 | 2.0369 | .25375 | .25423 | .25350 | .24858 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .25000 | | | | | | | | | | |
| Range | | 5.0000% | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.29495** | **20.655** | **.26134** | **10.076** | **.25431** | **.25189** | F **2.2937** | **.25516** | **1.9790** | **.25581** | **.00594** | **.24928** |
| Stddev | .00790 | .243 | .00236 | .000 | .00010 | .00014 | .0101 | .00134 | .0016 | .00078 | .00074 | .00053 |
| %RSD | 2.6771 | 1.1783 | .90290 | .00039 | .03748 | .05593 | .44096 | .52585 | .08013 | .30461 | 12.484 | .21335 |
| #1 | .30053 | 20.827 | .26301 | 10.076 | .25425 | .25198 | 2.3009 | .25421 | 1.9779 | .25636 | .00647 | .24890 |
| #2 | .28937 | 20.483 | .25967 | 10.076 | .25438 | .25179 | 2.2866 | .25611 | 1.9801 | .25526 | .00542 | .24965 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | .25000 | | | | | | 2.0000 | | | | | |
| Range | 5.0000% | | | | | | 5.0000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49636** | **2.0811** | **.50392** | **.25492** | **.00367** | **.25322** | **.51283** | **-.02876** | **.25083** | **.25816** | **.24703** |
| Stddev | .00074 | .0153 | .00027 | .00280 | .00187 | .00032 | .00051 | .02071 | .00025 | .00182 | .00129 |
| %RSD | .14908 | .73320 | .05427 | 1.0969 | 50.886 | .12813 | .10026 | 72.021 | .10045 | .70619 | .52375 |
| #1 | .49689 | 2.0919 | .50411 | .25689 | .00500 | .25299 | .51320 | -.01411 | .25101 | .25945 | .24612 |
| #2 | .49584 | 2.0703 | .50372 | .25294 | .00235 | .25345 | .51247 | -.04341 | .25065 | .25687 | .24795 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5451.5** | **69134.** | **2937.1** |
| Stddev | .1 | 73. | 36.9 |
| %RSD | .00141 | .10616 | 1.2575 |
| #1 | 5451.5 | 69082. | 2911.0 |
| #2 | 5451.4 | 69186. | 2963.2 |

Sample Name: ICVL2060387 Acquired: 5/18/2013 9:11:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01003** | **.10627** | **.01255** | **.10198** | **.01104** | **.00112** | **.10655** | **.20841** | **.00528** | **.01029** | **.01043** |
| Stddev | .00055 | .00046 | .00278 | .00004 | .00032 | .00015 | .00128 | .00149 | .00004 | .00020 | .00003 |
| %RSD | 5.4587 | .43316 | 22.133 | .04263 | 2.8582 | 13.147 | 1.2016 | .71689 | .71553 | 1.9428 | .28714 |
| #1 | .00965 | .10660 | .01058 | .10195 | .01126 | .00122 | .10564 | .20947 | .00531 | .01043 | .01045 |
| #2 | .01042 | .10595 | .01451 | .10201 | .01081 | .00101 | .10745 | .20735 | .00525 | .01014 | .01041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01528** | **.11152** | **3.2366** | F **.01402** | **.21173** | **.01041** | **.02003** | W **1.2054** | **.04168** | **2.9335** | **.01039** |
| Stddev | .00024 | .01124 | .0496 | .00005 | .00135 | .00003 | .00003 | .0114 | .00018 | .0012 | .00100 |
| %RSD | 1.5724 | 10.078 | 1.5320 | .33242 | .63698 | .26934 | .17089 | .94754 | .43879 | .04078 | 9.6440 |
| #1 | .01545 | .11947 | 3.2716 | .01405 | .21077 | .01043 | .02005 | 1.2135 | .04181 | 2.9326 | .00968 |
| #2 | .01511 | .10358 | 3.2015 | .01399 | .21268 | .01039 | .02000 | 1.1974 | .04155 | 2.9343 | .01109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 30.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00323** | **.00973** | **.01466** | **.50604** | **.10302** | **.01053** | **.01531** | **.01051** | **.01612** | **.04819** | **.01046** |
| Stddev | .00069 | .00027 | .00025 | .00776 | .00037 | .00005 | .00112 | .00026 | .00065 | .03360 | .00030 |
| %RSD | 21.519 | 2.8108 | 1.6930 | 1.5340 | .36256 | .47609 | 7.3260 | 2.4576 | 4.0047 | 69.716 | 2.8785 |
| #1 | .00274 | .00954 | .01483 | .50055 | .10329 | .01056 | .01610 | .01069 | .01567 | .02443 | .01025 |
| #2 | .00372 | .00993 | .01448 | .51153 | .10276 | .01049 | .01451 | .01032 | .01658 | .07195 | .01068 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02332** | **.01671** |
| Stddev | .00037 | .00508 |
| %RSD | 1.5806 | 30.395 |
| #1 | .02306 | .02030 |
| #2 | .02359 | .01311 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5441.4** | **68318.** | **2945.1** |
| Stddev | .7 | 216. | 1.9 |
| %RSD | .01257 | .31549 | .06453 |
| #1 | 5441.8 | 68470. | 2943.7 |
| #2 | 5440.9 | 68166. | 2946.4 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 9:13:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **49.868** | **-.00268** | **.00185** | **.00101** | **-.00012** | **1.0013** | **-.00955** | **-.00068** | **.00175** | **.00014** | **.00112** | **49.375** |
| Stddev | .00031 | .063 | .00090 | .00012 | .00017 | .00008 | .0032 | .00375 | .00010 | .00027 | .00018 | .00006 | .051 |
| %RSD | 70.898 | .12563 | 33.454 | 6.2261 | 16.601 | 70.525 | .32408 | 39.317 | 14.340 | 15.678 | 131.29 | 5.0495 | .10333 |
| #1 | -.00022 | 49.824 | -.00331 | .00177 | .00113 | -.00006 | .99902 | -.01220 | -.00075 | .00194 | .00001 | .00108 | 49.339 |
| #2 | -.00066 | 49.912 | -.00204 | .00193 | .00089 | -.00018 | 1.0036 | -.00689 | -.00061 | .00155 | .00027 | .00116 | 49.411 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11312** | **.00220** | **.00220** | **-.00004** | **-.00197** | **248.16** | **.00095** | **.00521** | **.00142** | **4.9427** | **.00164** | **.00860** | **-.00842** |
| Stddev | .01272 | .00142 | .00258 | .00003 | .00005 | .69 | .00019 | .00213 | .00014 | .0039 | .00163 | .00038 | .00628 |
| %RSD | 11.246 | 64.670 | 117.40 | 73.371 | 2.6118 | .27875 | 19.512 | 40.851 | 9.4915 | .07861 | 99.765 | 4.4226 | 74.587 |
| #1 | .10412 | .00119 | .00403 | -.00005 | -.00201 | 248.65 | .00082 | .00672 | .00152 | 4.9400 | .00048 | .00833 | -.01287 |
| #2 | .12211 | .00321 | .00037 | -.00002 | -.00194 | 247.67 | .00108 | .00371 | .00133 | 4.9455 | .00279 | .00887 | -.00398 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | **.00045** | **5.0130** | **.00316** | **-.00134** | **10.064** | **-.00002** | **.00246** | **-.03507** |
| Stddev | .00030 | .00024 | .0411 | .00060 | .00112 | .092 | .00012 | .00030 | .00320 |
| %RSD | 27.065 | 54.407 | .81944 | 18.845 | 83.739 | .91808 | 665.19 | 12.061 | 9.1152 |
| #1 | .00132 | .00028 | 4.9840 | .00358 | -.00054 | 9.9987 | -.00010 | .00267 | -.03281 |
| #2 | .00089 | .00062 | 5.0421 | .00274 | -.00213 | 10.129 | .00007 | .00225 | -.03733 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5339.5** | **67351.** | **2941.2** |
| Stddev | 3.6 | 280. | 19.2 |
| %RSD | .06780 | .41629 | .65217 |
| #1 | 5337.0 | 67550. | 2927.6 |
| #2 | 5342.1 | 67153. | 2954.8 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 9:15:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50005** | **.51020** | **.99219** | **.49990** | **.50177** | **.49930** | **.00194** | **5.0144** | **.49983** | **.50515** | **.50154** | **.50209** | **2.5072** |
| Stddev | .00117 | .00096 | .00157 | .00011 | .00537 | .00579 | .00098 | .0447 | .00091 | .00015 | .00123 | .00120 | .0213 |
| %RSD | .23384 | .18886 | .15857 | .02226 | 1.0699 | 1.1598 | 50.485 | .89050 | .18200 | .02983 | .24526 | .23837 | .85062 |
| #1 | .50087 | .50952 | .99108 | .49998 | .50557 | .50339 | .00263 | 5.0460 | .50047 | .50505 | .50241 | .50294 | 2.5223 |
| #2 | .49922 | .51088 | .99330 | .49982 | .49798 | .49520 | .00125 | 4.9828 | .49918 | .50526 | .50067 | .50125 | 2.4922 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.159** | **1.0111** | **20.085** | **.50263** | **.49852** | **5.1920** | **.50523** | **.99276** | **1.0079** | **-.00237** | **.99562** | **.98441** | **4.9944** |
| Stddev | .469 | .0110 | .050 | .00074 | .00110 | .0620 | .00102 | .00170 | .0019 | .00068 | .00231 | .00208 | .0231 |
| %RSD | .93589 | 1.0863 | .25031 | .14737 | .22037 | 1.1938 | .20173 | .17161 | .18707 | 28.767 | .23193 | .21144 | .46281 |
| #1 | 50.491 | 1.0189 | 20.121 | .50315 | .49929 | 5.2359 | .50595 | .99156 | 1.0066 | -.00189 | .99399 | .98588 | 5.0107 |
| #2 | 49.827 | 1.0033 | 20.050 | .50210 | .49774 | 5.1482 | .50451 | .99397 | 1.0093 | -.00285 | .99725 | .98293 | 4.9781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99773** | **.50064** | **.00270** | **.50197** | **1.0054** | **.02258** | **.50237** | **.50501** | **.49820** |
| Stddev | .00064 | .00389 | .00197 | .00052 | .0019 | .00283 | .00063 | .00170 | .01147 |
| %RSD | .06430 | .77699 | 73.082 | .10440 | .18731 | 12.513 | .12442 | .33670 | 2.3024 |
| #1 | .99819 | .50340 | .00130 | .50160 | 1.0040 | .02458 | .50281 | .50621 | .50631 |
| #2 | .99728 | .49789 | .00410 | .50234 | 1.0067 | .02058 | .50192 | .50381 | .49009 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5419.5** | **67858.** | **2958.0** |
| Stddev | 28.1 | 62. | 27.3 |
| %RSD | .51851 | .09196 | .92370 |
| #1 | 5399.7 | 67902. | 2938.6 |
| #2 | 5439.4 | 67814. | 2977.3 |

Sample Name: ICB Acquired: 5/18/2013 9:18:14 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **.00060** | **-.00080** | W **.00198** | W **.00058** | **.00006** | **.00057** | **-.00355** | **.00010** | **-.00013** | **-.00020** |
| Stddev | .00022 | .00018 | .00087 | .00048 | .00057 | .00003 | .00267 | .00150 | .00010 | .00030 | .00004 |
| %RSD | 62.152 | 30.580 | 109.21 | 24.085 | 98.119 | 49.589 | 465.95 | 42.089 | 94.377 | 230.70 | 21.070 |
| #1 | -.00051 | .00073 | -.00018 | .00164 | .00098 | .00008 | .00246 | -.00461 | .00003 | .00008 | -.00017 |
| #2 | -.00020 | .00047 | -.00141 | .00231 | .00018 | .00004 | -.00131 | -.00250 | .00017 | -.00034 | -.00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | .00058 | | | | | | |
| Low Limit | | | | -.00156 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00437** | **.11766** | **.00088** | **.00287** | **-.00004** | **-.00011** | F **.12017** | **-.00033** | **.00055** | **.00063** |
| Stddev | .00075 | .00173 | .01379 | .00106 | .00276 | .00003 | .00013 | .00304 | .00010 | .00115 | .00252 |
| %RSD | 6483.5 | 39.599 | 11.718 | 120.99 | 96.228 | 72.543 | 112.17 | 2.5276 | 28.534 | 208.28 | 402.22 |
| #1 | .00054 | .00314 | .10791 | .00163 | .00482 | -.00006 | -.00002 | .12231 | -.00040 | .00137 | -.00116 |
| #2 | -.00052 | .00559 | .12741 | .00013 | .00092 | -.00002 | -.00020 | .11802 | -.00027 | -.00026 | .00241 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00852** | **-.00043** | **-.00084** | **-.01359** | **.00094** | **.00015** | **.00120** | **.00031** | **.00040** | **-.03706** | **.00021** |
| Stddev | .00155 | .00107 | .00363 | .00672 | .00053 | .00014 | .00149 | .00027 | .00052 | .02141 | .00031 |
| %RSD | 18.220 | 246.12 | 430.00 | 49.463 | 56.143 | 88.425 | 123.59 | 88.725 | 128.84 | 57.777 | 149.24 |
| #1 | .00962 | .00032 | .00172 | -.00884 | .00057 | .00006 | .00015 | .00050 | .00004 | -.02192 | .00042 |
| #2 | .00742 | -.00119 | -.00341 | -.01835 | .00131 | .00025 | .00226 | .00011 | .00077 | -.05221 | -.00001 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00248** | **-.00074** |
| Stddev | .00003 | .00108 |
| %RSD | 1.4018 | 144.88 |
| #1 | .00246 | .00002 |
| #2 | .00251 | -.00150 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5414.7** | **67720.** | **2911.5** |
| Stddev | 1.0 | 5. | 3.9 |
| %RSD | .01900 | .00797 | .13267 |
| #1 | 5415.5 | 67716. | 2914.2 |
| #2 | 5414.0 | 67724. | 2908.8 |

Sample Name: ICV-2050070 Acquired: 5/18/2013 9:22:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25899** | **.26000** | **.24165** | **.25089** | **.25085** | **.24170** | **.00438** | **2.0352** | **.25233** | **.25340** | **.25159** | **.24926** | **.25200** |
| Stddev | .00330 | .00123 | .00254 | .00057 | .00100 | .00154 | .00226 | .0058 | .00015 | .00010 | .00019 | .00348 | .00607 |
| %RSD | 1.2737 | .47238 | 1.0493 | .22739 | .39809 | .63895 | 51.603 | .28387 | .06045 | .03820 | .07505 | 1.3977 | 2.4092 |
| #1 | .26132 | .26087 | .24344 | .25048 | .25014 | .24060 | .00278 | 2.0311 | .25222 | .25346 | .25172 | .25173 | .25630 |
| #2 | .25666 | .25913 | .23985 | .25129 | .25156 | .24279 | .00598 | 2.0393 | .25243 | .25333 | .25146 | .24680 | .24771 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.517** | **.26063** | **10.161** | **.25570** | **.24718** | **2.0474** | **.25383** | **1.9725** | **.25358** | **-.00112** | **.25398** | **.49768** | **2.0655** |
| Stddev | .072 | .00067 | .128 | .00309 | .00111 | .0028 | .00043 | .0034 | .00276 | .00189 | .00222 | .00282 | .0046 |
| %RSD | .35153 | .25674 | 1.2596 | 1.2069 | .44855 | .13672 | .16905 | .17168 | 1.0900 | 168.84 | .87438 | .56740 | .22233 |
| #1 | 20.466 | .26016 | 10.251 | .25788 | .24639 | 2.0493 | .25352 | 1.9749 | .25554 | -.00246 | .25555 | .49967 | 2.0622 |
| #2 | 20.568 | .26111 | 10.070 | .25351 | .24796 | 2.0454 | .25413 | 1.9701 | .25163 | .00022 | .25241 | .49568 | 2.0687 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50121** | **.25281** | **-.00076** | **.25481** | **.50667** | **.00418** | **.25114** | **.25883** | **.24631** |
| Stddev | .00161 | .00191 | .00081 | .00267 | .00126 | .01374 | .00281 | .00371 | .00256 |
| %RSD | .32099 | .75460 | 106.31 | 1.0485 | .24804 | 328.49 | 1.1169 | 1.4315 | 1.0403 |
| #1 | .50008 | .25146 | -.00019 | .25670 | .50578 | .01390 | .25312 | .26145 | .24449 |
| #2 | .50235 | .25416 | -.00134 | .25292 | .50756 | -.00553 | .24916 | .25621 | .24812 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5483.0** | **68090.** | **2955.8** |
| Stddev | 11.3 | 475. | 16.3 |
| %RSD | .20654 | .69815 | .55187 |
| #1 | 5475.0 | 67754. | 2967.4 |
| #2 | 5491.0 | 68426. | 2944.3 |

Sample Name: ICV-2050070 Acquired: 5/18/2013 9:24:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25560** | F **.27329** | **.24271** | **.25095** | **.25506** | **.24639** | **.00056** | **2.0655** | **.25139** | **.25284** | **.25183** | **.24580** |
| Stddev | .00061 | .00098 | .00473 | .00057 | .00560 | .00593 | .00069 | .0382 | .00125 | .00120 | .00100 | .00005 |
| %RSD | .24035 | .36021 | 1.9481 | .22590 | 2.1964 | 2.4064 | 123.14 | 1.8509 | .49831 | .47542 | .39793 | .02088 |
| #1 | .25603 | .27399 | .24605 | .25135 | .25903 | .25059 | .00105 | 2.0926 | .25227 | .25369 | .25254 | .24576 |
| #2 | .25517 | .27259 | .23936 | .25055 | .25110 | .24220 | .00007 | 2.0385 | .25050 | .25199 | .25113 | .24583 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .25000 | | | | | | | | | | |
| Range | | 5.0000% | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25693** | **20.818** | F **.26253** | **10.002** | **.25183** | **.24873** | **2.0892** | **.25388** | **1.9637** | **.25551** | **.00164** | **.25231** |
| Stddev | .00520 | .472 | .00655 | .001 | .00027 | .00073 | .0445 | .00106 | .0095 | .00317 | .00080 | .00361 |
| %RSD | 2.0246 | 2.2683 | 2.4968 | .01309 | .10714 | .29496 | 2.1315 | .41801 | .48496 | 1.2392 | 48.472 | 1.4300 |
| #1 | .25326 | 21.152 | .26716 | 10.001 | .25202 | .24925 | 2.1206 | .25463 | 1.9704 | .25775 | .00108 | .25486 |
| #2 | .26061 | 20.484 | .25789 | 10.003 | .25164 | .24821 | 2.0577 | .25313 | 1.9569 | .25327 | .00220 | .24976 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | .25000 | | | | | | | | | |
| Range | | | 5.0000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49741** | F **2.1039** | **.50126** | **.25620** | **.00134** | **.25102** | **.50871** | **-.05751** | **.24843** | **.25553** | **.24397** |
| Stddev | .00553 | .0510 | .00314 | .00554 | .00547 | .00019 | .00158 | .01133 | .00033 | .00011 | .00826 |
| %RSD | 1.1110 | 2.4247 | .62552 | 2.1628 | 407.97 | .07552 | .31122 | 19.708 | .13147 | .04478 | 3.3838 |
| #1 | .50132 | 2.1399 | .50348 | .26012 | -.00253 | .25088 | .50983 | -.04949 | .24866 | .25561 | .24980 |
| #2 | .49350 | 2.0678 | .49904 | .25228 | .00521 | .25115 | .50759 | -.06552 | .24820 | .25545 | .23813 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | 2.0000 | | | | | | | | | |
| Range | | 5.0000% | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5493.2** | **69196.** | **2932.7** |
| Stddev | 15.2 | 218. | 62.3 |
| %RSD | .27700 | .31433 | 2.1248 |
| #1 | 5482.5 | 69042. | 2888.7 |
| #2 | 5504.0 | 69350. | 2976.8 |

Sample Name: CRI-2060388 Acquired: 5/18/2013 9:32:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01038** | **.10976** | **.01045** | **.10259** | **.00472** | **.00114** | **.11500** | **.20763** | **.00528** | **.00517** | **.01041** |
| Stddev | .00021 | .00001 | .00086 | .00010 | .00022 | .00015 | .00251 | .00085 | .00001 | .00003 | .00001 |
| %RSD | 2.0569 | .00488 | 8.2013 | .09298 | 4.6294 | 12.888 | 2.1851 | .41056 | .22298 | .62062 | .06569 |
| #1 | .01054 | .10976 | .00984 | .10266 | .00488 | .00104 | .11677 | .20703 | .00529 | .00515 | .01041 |
| #2 | .01023 | .10975 | .01106 | .10252 | .00457 | .00124 | .11322 | .20823 | .00527 | .00520 | .01042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01069** | W **.04464** | **1.1181** | **.00966** | **.21658** | **.00327** | **.01047** | **1.1011** | **.01061** | **.99765** | W **.00228** |
| Stddev | .00002 | .00946 | .0475 | .00206 | .00020 | .00006 | .00052 | .0230 | .00016 | .00397 | .00142 |
| %RSD | .22553 | 21.179 | 4.2460 | 21.336 | .09306 | 1.9529 | 4.9694 | 2.0849 | 1.4733 | .39806 | 62.380 |
| #1 | .01071 | .03796 | 1.0845 | .00820 | .21644 | .00323 | .01083 | 1.0849 | .01072 | 1.0005 | .00329 |
| #2 | .01067 | .05133 | 1.1517 | .01112 | .21672 | .00332 | .01010 | 1.1174 | .01050 | .99485 | .00128 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | .03000 | | | | | | | | | .00300 |
| Range | | 20.000% | | | | | | | | | -20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09817** | **.01011** | **.01017** | **.48852** | **.02149** | **.00528** | **.01063** | **.01057** | **.01090** | W **.03265** | **.01030** |
| Stddev | .00049 | .00115 | .00102 | .00123 | .00012 | .00004 | .00187 | .00019 | .00125 | .01005 | .00023 |
| %RSD | .50423 | 11.353 | 10.058 | .25186 | .54110 | .82214 | 17.615 | 1.7727 | 11.462 | 30.781 | 2.2390 |
| #1 | .09782 | .01092 | .00945 | .48765 | .02140 | .00525 | .01196 | .01070 | .01178 | .02554 | .01047 |
| #2 | .09852 | .00930 | .01090 | .48939 | .02157 | .00531 | .00931 | .01044 | .01002 | .03976 | .01014 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.01284** | **.01181** |
| Stddev | .00019 | .00060 |
| %RSD | 1.4515 | 5.0473 |
| #1 | .01271 | .01139 |
| #2 | .01297 | .01223 |
| Check ? | Chk Warn | Chk Pass |
| Value | .01000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5584.8** | **69920.** | **3005.7** |
| Stddev | 7.4 | 46. | 21.5 |
| %RSD | .13250 | .06634 | .71664 |
| #1 | 5579.6 | 69953. | 3021.0 |
| #2 | 5590.0 | 69887. | 2990.5 |

Sample Name: cri-2060429 Acquired: 5/18/2013 9:38:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **-.00038** | **-.00304** | **.00127** | **.00015** | **-.00005** | **.00079** | **-.00259** | **.00002** |
| Stddev | .00026 | .00002 | .00073 | .00036 | .00075 | .00010 | .00100 | .00089 | .00006 |
| %RSD | 58.314 | 4.0828 | 24.114 | 28.574 | 498.19 | 214.15 | 127.47 | 34.453 | 267.70 |
| #1 | -.00026 | -.00037 | -.00252 | .00101 | .00068 | -.00012 | .00149 | -.00196 | -.00002 |
| #2 | -.00063 | -.00039 | -.00356 | .00152 | -.00038 | .00002 | .00008 | -.00322 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **-.00004** | **.00068** | **.05588** | **.00989** | **-.00028** | **-.00030** | **-.00005** | **.00025** |
| Stddev | .00000 | .00008 | .00009 | .00476 | .06980 | .00105 | .00255 | .00003 | .00011 |
| %RSD | 8.5437 | 211.12 | 13.492 | 8.5137 | 705.76 | 377.84 | 854.69 | 58.878 | 42.167 |
| #1 | -.00002 | .00002 | .00075 | .05252 | -.03946 | .00047 | .00151 | -.00007 | .00018 |
| #2 | -.00003 | -.00009 | .00062 | .05925 | .05924 | -.00102 | -.00210 | -.00003 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01108** | **-.00019** | **.00199** | **.01038** | **-.00118** | **-.00031** | **-.00195** | **-.01161** | **.00022** |
| Stddev | .00405 | .00010 | .00183 | .00127 | .00620 | .00220 | .00124 | .00114 | .00015 |
| %RSD | 36.584 | 55.245 | 91.765 | 12.203 | 523.53 | 711.08 | 63.885 | 9.8539 | 68.266 |
| #1 | -.00822 | -.00026 | .00070 | .01127 | -.00557 | .00124 | -.00282 | -.01080 | .00011 |
| #2 | -.01395 | -.00011 | .00328 | .00948 | .00320 | -.00186 | -.00107 | -.01242 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **.00166** | **.00020** | **.00077** | **-.02859** | **.00065** | **.01995** | **-.00169** |
| Stddev | .00014 | .00110 | .00042 | .00044 | .00848 | .00039 | .00038 | .00431 |
| %RSD | 91.072 | 66.587 | 211.01 | 57.036 | 29.654 | 60.073 | 1.9194 | 255.55 |
| #1 | -.00024 | .00088 | -.00010 | .00107 | -.03459 | .00037 | .01968 | .00136 |
| #2 | -.00005 | .00244 | .00049 | .00046 | -.02260 | .00093 | .02022 | -.00473 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5594.6** | **70398.** | **3007.8** |
| Stddev | 12.7 | 84. | 14.2 |
| %RSD | .22686 | .11916 | .47091 |
| #1 | 5585.6 | 70338. | 2997.8 |
| #2 | 5603.6 | 70457. | 3017.9 |

Sample Name: ICSA-2050073 Acquired: 5/18/2013 9:44:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **499.55** | **.00016** | **.00131** | W **.00077** | **-.00037** | **-.00922** | **484.99** | W **.00064** | **-.00021** | F **.00215** |
| Stddev | .00046 | .11 | .00163 | .00109 | .00005 | .00001 | .00054 | .01 | .00024 | .00022 | .00021 |
| %RSD | 157.90 | .02257 | 1002.9 | 83.418 | 6.1405 | 2.4796 | 5.8772 | .00273 | 36.663 | 107.03 | 9.5853 |
| #1 | .00003 | 499.47 | .00131 | .00208 | .00080 | -.00037 | -.00883 | 484.98 | .00081 | -.00036 | .00200 |
| #2 | -.00061 | 499.63 | -.00099 | .00054 | .00074 | -.00036 | -.00960 | 485.00 | .00048 | -.00005 | .00229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Fail |
| High Limit | | | | | .00058 | | | | .00045 | | .00123 |
| Low Limit | | | | | -.00058 | | | | -.00045 | | -.00132 |

| Elem | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00447** | **188.68** | **.11768** | **.00254** | **513.56** | F **.00387** | **-.00213** | W **.16785** | W **.00201** | **.00159** | **.00208** |
| Stddev | .00022 | 1.10 | .05823 | .00060 | 1.06 | .00006 | .00021 | .00184 | .00005 | .00073 | .00114 |
| %RSD | 4.8559 | .58494 | 49.482 | 23.470 | .20726 | 1.4711 | 9.6592 | 1.0957 | 2.2521 | 45.797 | 54.700 |
| #1 | .00432 | 189.46 | .07651 | .00212 | 512.81 | .00383 | -.00198 | .16655 | .00198 | .00210 | .00128 |
| #2 | .00462 | 187.90 | .15886 | .00296 | 514.31 | .00391 | -.00227 | .16915 | .00204 | .00108 | .00289 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass |
| High Limit | .00272 | | | | | .00051 | | .09160 | .00129 | | |
| Low Limit | -.00272 | | | | | -.00051 | | -.09160 | -.00129 | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05308** | **-.00224** | **.00478** | **.01026** | **-.00015** | F **.00231** | F **.03318** | **-.00014** | **-.00030** | **-.04755** | F **.00472** |
| Stddev | .00274 | .00128 | .00660 | .00086 | .00022 | .00019 | .00051 | .00072 | .00071 | .02797 | .00084 |
| %RSD | 5.1711 | 57.068 | 138.04 | 8.3576 | 138.88 | 8.0981 | 1.5480 | 500.84 | 236.08 | 58.818 | 17.812 |
| #1 | -.05114 | -.00314 | .00945 | .00965 | -.00000 | .00218 | .03282 | -.00066 | -.00080 | -.06733 | .00413 |
| #2 | -.05502 | -.00134 | .00011 | .01087 | -.00031 | .00245 | .03354 | .00037 | .00020 | -.02778 | .00531 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | None | Chk Fail |
| High Limit | | | | | | .00060 | .01000 | | | | .00222 |
| Low Limit | | | | | | -.00060 | -.01000 | | | | -.00222 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.01165** | **.00057** |
| Stddev | .00073 | .00286 |
| %RSD | 6.2327 | 502.98 |
| #1 | .01114 | -.00145 |
| #2 | .01217 | .00259 |
| Check ? | Chk Fail | Chk Pass |
| High Limit | .00906 | |
| Low Limit | -.00906 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4948.7** | **61614.** | **2842.4** |
| Stddev | 17.7 | 213. | 1.3 |
| %RSD | .35785 | .34594 | .04742 |
| #1 | 4936.2 | 61765. | 2841.5 |
| #2 | 4961.3 | 61463. | 2843.4 |

Sample Name: ICSAB-2050074 Acquired: 5/18/2013 9:47:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1120** | **498.53** | **2.0055** | **2.0122** | **.51294** | **.49429** | **1.0471** | **483.33** | **1.0586** | **.49388** | **.51085** | **.56429** | **189.29** | **52.575** |
| Stddev | .0009 | 1.43 | .0009 | .0019 | .00099 | .00101 | .0021 | 1.12 | .0000 | .00045 | .00102 | .00150 | 1.02 | .201 |
| %RSD | .07793 | .28649 | .04338 | .09186 | .19243 | .20453 | .20210 | .23074 | .00263 | .09136 | .19890 | .26573 | .53929 | .38159 |
| #1 | 1.1126 | 497.52 | 2.0048 | 2.0109 | .51224 | .49357 | 1.0456 | 482.54 | 1.0586 | .49356 | .51013 | .56535 | 188.57 | 52.433 |
| #2 | 1.1114 | 499.54 | 2.0061 | 2.0135 | .51364 | .49500 | 1.0486 | 484.12 | 1.0587 | .49420 | .51157 | .56323 | 190.02 | 52.716 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0596** | **513.72** | **.51453** | **1.0049** | **51.758** | **.97366** | **2.0084** | **.99103** | **.98705** | **1.0351** | **5.0225** | **10.492** | **9.6712** | **.99749** |
| Stddev | .0001 | 2.39 | .00080 | .0005 | .857 | .00123 | .0008 | .00217 | .00634 | .0056 | .0086 | .013 | .0016 | .00269 |
| %RSD | .01458 | .46466 | .15471 | .04964 | 1.6550 | .12618 | .03747 | .21896 | .64201 | .54380 | .17049 | .12200 | .01669 | .26946 |
| #1 | 1.0595 | 512.03 | .51509 | 1.0046 | 51.153 | .97280 | 2.0078 | .98950 | .99153 | 1.0311 | 5.0286 | 10.483 | 9.6723 | .99559 |
| #2 | 1.0597 | 515.41 | .51397 | 1.0053 | 52.364 | .97453 | 2.0089 | .99257 | .98257 | 1.0390 | 5.0165 | 10.501 | 9.6701 | .99939 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0610** | **1.0355** | **9.4273** | **.03357** | **.52288** | **.99545** | **.97895** |
| Stddev | .0016 | .0016 | .0006 | .02340 | .00263 | .00193 | .00078 |
| %RSD | .07849 | .15207 | .00620 | 69.695 | .50330 | .19378 | .07959 |
| #1 | 2.0622 | 1.0366 | 9.4269 | .01703 | .52474 | .99681 | .97840 |
| #2 | 2.0599 | 1.0344 | 9.4277 | .05012 | .52102 | .99408 | .97950 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4932.4** | **61667.** | **2893.3** |
| Stddev | 1.6 | 56. | 7.4 |
| %RSD | .03250 | .09018 | .25417 |
| #1 | 4931.3 | 61628. | 2898.5 |
| #2 | 4933.5 | 61707. | 2888.1 |

Sample Name: LRA-2050194 Acquired: 5/18/2013 9:50:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0799** | **-.39352** | **9.8034** | **9.7595** | **12.333** | **.00182** | **.02003** | **.09256** | **2.0424** | **5.0566** | **10.169** | **10.390** | **502.67** |
| Stddev | .0108 | .00325 | .0444 | .0373 | .013 | .00007 | .00429 | .03827 | .0066 | .0145 | .033 | .005 | .95 |
| %RSD | .51797 | .82481 | .45320 | .38174 | .10575 | 3.8571 | 21.412 | 41.350 | .32160 | .28704 | .32481 | .04686 | .18902 |
| #1 | 2.0723 | -.39123 | 9.8349 | 9.7858 | 12.342 | .00187 | .02307 | .11962 | 2.0470 | 5.0669 | 10.192 | 10.387 | 502.00 |
| #2 | 2.0875 | -.39582 | 9.7720 | 9.7331 | 12.324 | .00177 | .01700 | .06549 | 2.0378 | 5.0464 | 10.146 | 10.394 | 503.35 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.25771** | **.00135** | **-.08397** | **9.9079** | **10.092** | **.08071** | **10.234** | **-.01585** | **10.277** | **-.04790** | **.00431** | **4.9426** | **49.130** |
| Stddev | .00698 | .00019 | .00282 | .0070 | .038 | .00097 | .038 | .00099 | .034 | .00077 | .00119 | .0184 | .383 |
| %RSD | 2.7082 | 14.145 | 3.3563 | .07048 | .38054 | 1.1962 | .36776 | 6.2195 | .33443 | 1.5998 | 27.616 | .37171 | .77859 |
| #1 | -.25278 | .00149 | -.08198 | 9.9030 | 10.119 | .08139 | 10.260 | -.01516 | 10.301 | -.04844 | .00515 | 4.9556 | 48.860 |
| #2 | -.26265 | .00122 | -.08596 | 9.9128 | 10.065 | .08002 | 10.207 | -.01655 | 10.253 | -.04735 | .00347 | 4.9296 | 49.401 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00947** | **10.219** | **.06689** | **10.047** | **10.252** | **.07383** | **10.102** | **9.7739** | **-.00972** |
| Stddev | .00033 | .011 | .00260 | .007 | .032 | .01343 | .003 | .0289 | .00272 |
| %RSD | 3.5013 | .10604 | 3.8859 | .07450 | .30913 | 18.189 | .02524 | .29568 | 27.987 |
| #1 | .00924 | 10.227 | .06873 | 10.042 | 10.275 | .08333 | 10.100 | 9.7534 | -.00780 |
| #2 | .00971 | 10.211 | .06505 | 10.052 | 10.230 | .06434 | 10.104 | 9.7943 | -.01165 |
| Check ? | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5352.3** | **68261.** | **2941.5** |
| Stddev | 2.7 | 159. | 4.4 |
| %RSD | .05044 | .23286 | .14925 |
| #1 | 5350.4 | 68374. | 2944.6 |
| #2 | 5354.2 | 68149. | 2938.4 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 9:53:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **49.795** | **.00023** | **.01940** | **.00241** | **-.00006** | **.99927** | **.04941** | **-.00044** | **.00224** | **.00096** | **.00270** | **49.488** |
| Stddev | .00012 | .073 | .00002 | .00199 | .00007 | .00004 | .00313 | .00441 | .00017 | .00025 | .00013 | .00055 | .140 |
| %RSD | 215.59 | .14709 | 9.7667 | 10.281 | 2.9989 | 65.098 | .31344 | 8.9233 | 38.508 | 10.966 | 13.145 | 20.472 | .28320 |
| #1 | .00014 | 49.743 | .00025 | .02081 | .00236 | -.00009 | .99705 | .04629 | -.00056 | .00206 | .00105 | .00309 | 49.587 |
| #2 | -.00003 | 49.847 | .00022 | .01799 | .00246 | -.00003 | 1.0015 | .05253 | -.00032 | .00241 | .00087 | .00231 | 49.389 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03574** | **.00227** | **.05379** | **.00102** | **-.00005** | **249.32** | **.00174** | **.00621** | **.00271** | **4.9632** | **-.00164** | **.00556** | **.04996** |
| Stddev | .04122 | .00362 | .00265 | .00002 | .00015 | .20 | .00056 | .00146 | .00069 | .0139 | .00230 | .00050 | .01210 |
| %RSD | 115.32 | 159.43 | 4.9170 | 2.2107 | 291.84 | .08214 | 32.248 | 23.434 | 25.557 | .28090 | 140.51 | 9.0611 | 24.212 |
| #1 | .06489 | -.00029 | .05566 | .00100 | .00006 | 249.18 | .00134 | .00724 | .00222 | 4.9534 | -.00001 | .00520 | .04141 |
| #2 | .00660 | .00483 | .05192 | .00104 | -.00016 | 249.47 | .00214 | .00518 | .00320 | 4.9731 | -.00326 | .00592 | .05851 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00278** | **.00151** | **4.9518** | **.00409** | **.00033** | **10.007** | **.00100** | **.00416** | **-.02423** |
| Stddev | .00018 | .00002 | .0251 | .00001 | .00022 | .121 | .00015 | .00009 | .00309 |
| %RSD | 6.5558 | 1.3761 | .50604 | .13037 | 66.680 | 1.2074 | 15.095 | 2.2544 | 12.746 |
| #1 | .00265 | .00153 | 4.9695 | .00410 | .00048 | 10.093 | .00089 | .00423 | -.02205 |
| #2 | .00291 | .00150 | 4.9341 | .00409 | .00017 | 9.9219 | .00110 | .00410 | -.02641 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5363.5** | **68266.** | **2953.2** |
| Stddev | 12.5 | 171. | 13.2 |
| %RSD | .23258 | .25027 | .44718 |
| #1 | 5372.3 | 68145. | 2943.9 |
| #2 | 5354.7 | 68387. | 2962.6 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 9:55:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49942** | F **.55219** | **.99624** | **.51119** | **.50454** | **.50125** | **.00376** | **5.0863** | **.50181** | **.50692** | **.50501** | **.50178** |
| Stddev | .00153 | .00301 | .00756 | .00224 | .00207 | .00144 | .00068 | .0086 | .00253 | .00226 | .00300 | .00128 |
| %RSD | .30676 | .54511 | .75879 | .43846 | .41013 | .28667 | 18.031 | .17008 | .50390 | .44607 | .59497 | .25576 |
| #1 | .49834 | .55432 | 1.0016 | .51278 | .50308 | .50024 | .00424 | 5.0802 | .50360 | .50852 | .50713 | .50087 |
| #2 | .50051 | .55006 | .99090 | .50961 | .50600 | .50227 | .00328 | 5.0924 | .50003 | .50532 | .50288 | .50269 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | |
| Range | | 10.000% | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5840** | **50.824** | **1.0236** | **20.070** | **.50203** | **.50547** | **5.1874** | **.50945** | **.99720** | **1.0137** | **.00214** | **1.0016** |
| Stddev | .0002 | .214 | .0051 | .018 | .00171 | .00266 | .0268 | .00261 | .00264 | .0082 | .00248 | .0077 |
| %RSD | .00684 | .42011 | .49873 | .09042 | .34027 | .52709 | .51704 | .51241 | .26443 | .80473 | 115.45 | .76692 |
| #1 | 2.5839 | 50.673 | 1.0200 | 20.058 | .50082 | .50735 | 5.2063 | .51129 | .99907 | 1.0195 | .00039 | 1.0071 |
| #2 | 2.5842 | 50.975 | 1.0272 | 20.083 | .50324 | .50358 | 5.1684 | .50760 | .99534 | 1.0080 | .00390 | .99621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99430** | **5.0210** | **1.0083** | **.50519** | **.00174** | **.50206** | **1.0115** | **-.00506** | **.50117** | **.50444** | **.49903** |
| Stddev | .01010 | .0372 | .0040 | .00322 | .00241 | .00187 | .0092 | .01768 | .00058 | .00160 | .00601 |
| %RSD | 1.0155 | .74164 | .39305 | .63822 | 138.77 | .37211 | .90906 | 349.29 | .11494 | .31657 | 1.2052 |
| #1 | 1.0014 | 4.9947 | 1.0111 | .50291 | .00003 | .50074 | 1.0180 | .00744 | .50158 | .50331 | .49478 |
| #2 | .98716 | 5.0473 | 1.0055 | .50747 | .00344 | .50338 | 1.0050 | -.01756 | .50077 | .50557 | .50328 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5417.1** | **68332.** | **2913.1** |
| Stddev | 33.6 | 123. | 24.9 |
| %RSD | .62017 | .18034 | .85576 |
| #1 | 5393.3 | 68419. | 2930.7 |
| #2 | 5440.8 | 68244. | 2895.5 |

Sample Name: CCB Acquired: 5/18/2013 9:58:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | F **.04825** | **.00189** | F **.00998** | F **.00128** | **.00001** | **.00244** | W **.04030** | **.00026** | **.00035** | **.00041** |
| Stddev | .00012 | .00154 | .00045 | .00060 | .00034 | .00009 | .00520 | .00117 | .00010 | .00009 | .00021 |
| %RSD | 54.335 | 3.2016 | 23.901 | 5.9829 | 26.423 | 608.87 | 213.45 | 2.8972 | 37.371 | 25.509 | 52.067 |
| #1 | -.00014 | .04716 | .00157 | .01040 | .00104 | .00008 | .00611 | .04113 | .00033 | .00028 | .00056 |
| #2 | -.00031 | .04934 | .00221 | .00956 | .00152 | -.00005 | -.00124 | .03947 | .00019 | .00041 | .00026 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .03600 | | .00312 | .00115 | | | .03450 | | | |
| Low Limit | | -.03600 | | -.00312 | -.00115 | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | F **.05926** | **.04348** | **.00244** | F **.04978** | F **.00071** | **.00116** | **.05082** | **.00023** | **.00136** | **.00100** |
| Stddev | .00020 | .00272 | .00950 | .00027 | .00338 | .00003 | .00004 | .00871 | .00002 | .00153 | .00018 |
| %RSD | 16.182 | 4.5955 | 21.846 | 11.197 | 6.7956 | 4.8366 | 3.8047 | 17.144 | 7.3134 | 111.86 | 18.071 |
| #1 | .00139 | .05733 | .03676 | .00225 | .05217 | .00073 | .00113 | .04466 | .00024 | .00029 | .00088 |
| #2 | .00111 | .06118 | .05020 | .00264 | .04739 | .00069 | .00119 | .05698 | .00021 | .00244 | .00113 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | | | .02140 | .00051 | | | | | |
| Low Limit | | -.04400 | | | -.02140 | -.00051 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00083** | **-.00068** | **.00234** | **.01777** | **.00193** | F **.00071** | **.00048** | W **.00081** | **.00097** | **-.03744** | **.00059** |
| Stddev | .00173 | .00156 | .00572 | .02708 | .00003 | .00003 | .00144 | .00011 | .00009 | .01981 | .00045 |
| %RSD | 207.87 | 228.92 | 244.02 | 152.37 | 1.4574 | 3.6959 | 302.58 | 13.326 | 9.0021 | 52.905 | 75.544 |
| #1 | .00039 | -.00178 | -.00170 | -.00138 | .00195 | .00069 | -.00054 | .00088 | .00091 | -.02343 | .00028 |
| #2 | -.00205 | .00042 | .00639 | .03693 | .00191 | .00073 | .00150 | .00073 | .00103 | -.05144 | .00091 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00060 | | .00060 | | | |
| Low Limit | | | | | | -.00060 | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00356** | **.00176** |
| Stddev | .00013 | .00250 |
| %RSD | 3.7281 | 141.91 |
| #1 | .00347 | .00352 |
| #2 | .00365 | -.00001 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5364.6** | **67793.** | **2870.3** |
| Stddev | 15.3 | 208. | 13.9 |
| %RSD | .28440 | .30730 | .48424 |
| #1 | 5375.4 | 67645. | 2880.1 |
| #2 | 5353.8 | 67940. | 2860.5 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 10:00:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00981** | F **.14739** | **.01450** | **.10743** | **.01166** | **.00104** | **.10531** | W **.24597** | **.00557** | **.01079** | **.01070** |
| Stddev | .00125 | .00317 | .00198 | .00076 | .00045 | .00008 | .00134 | .00080 | .00018 | .00008 | .00006 |
| %RSD | 12.712 | 2.1501 | 13.638 | .70524 | 3.8829 | 7.5328 | 1.2687 | .32690 | 3.2291 | .75580 | .60397 |
| #1 | .01069 | .14963 | .01589 | .10797 | .01198 | .00109 | .10626 | .24540 | .00569 | .01073 | .01065 |
| #2 | .00893 | .14515 | .01310 | .10690 | .01134 | .00098 | .10437 | .24654 | .00544 | .01085 | .01074 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | .20000 | | | |
| Range | | 30.000% | | | | | | 20.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01655** | F **.15049** | **3.2222** | W **.01274** | W **.25517** | **.01104** | **.02057** | **1.1041** | **.04161** | **2.9378** | **.01041** |
| Stddev | .00095 | .00666 | .0360 | .00118 | .00150 | .00002 | .00018 | .0073 | .00017 | .0070 | .00049 |
| %RSD | 5.7388 | 4.4250 | 1.1164 | 9.2553 | .58861 | .14039 | .88617 | .65761 | .40345 | .23824 | 4.6844 |
| #1 | .01722 | .14578 | 3.2477 | .01191 | .25623 | .01103 | .02070 | 1.1092 | .04173 | 2.9428 | .01076 |
| #2 | .01588 | .15520 | 3.1968 | .01358 | .25410 | .01105 | .02044 | 1.0989 | .04149 | 2.9329 | .01007 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | .20000 | | | | | | |
| Range | | 30.000% | | 20.000% | 20.000% | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **.01192** | **.01401** | **.52232** | **.10281** | **.01133** | **.01645** | **.01066** | **.01672** | F **.03227** | **.01120** |
| Stddev | .00265 | .00093 | .00028 | .00325 | .00049 | .00005 | .00080 | .00058 | .00032 | .00811 | .00062 |
| %RSD | 276.64 | 7.8179 | 1.9951 | .62129 | .47333 | .42075 | 4.8508 | 5.4329 | 1.9248 | 25.151 | 5.5757 |
| #1 | -.00092 | .01258 | .01381 | .52462 | .10246 | .01130 | .01588 | .01107 | .01649 | .02653 | .01164 |
| #2 | .00284 | .01126 | .01421 | .52003 | .10315 | .01137 | .01701 | .01025 | .01695 | .03800 | .01076 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02377** | **.01214** |
| Stddev | .00020 | .00027 |
| %RSD | .82698 | 2.2122 |
| #1 | .02363 | .01195 |
| #2 | .02391 | .01233 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5449.9** | **67639.** | **2889.7** |
| Stddev | 49.4 | 44. | 8.2 |
| %RSD | .90703 | .06520 | .28278 |
| #1 | 5415.0 | 67608. | 2895.5 |
| #2 | 5484.9 | 67670. | 2883.9 |

Sample Name: 280-42019-B-12-A  Acquired: 5/18/2013 10:03:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **26.543** | **.03419** | **.02266** | **1.4039** | **.00157** | **-.00034** | **141.42** | **.00077** |
| Stddev | .00024 | .106 | .00141 | .00015 | .0035 | .00021 | .00253 | .48 | .00004 |
| %RSD | 107.87 | .39982 | 4.1201 | .65519 | .25079 | 13.573 | 746.77 | .34087 | 5.1421 |
| #1 | -.00039 | 26.468 | .03319 | .02277 | 1.4015 | .00172 | -.00213 | 141.08 | .00080 |
| #2 | -.00005 | 26.618 | .03519 | .02256 | 1.4064 | .00142 | .00145 | 141.76 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01802** | **.01755** | **.02294** | **45.264** | **7.8612** | **.01852** | **11.208** | **1.0163** | **.00497** |
| Stddev | .00014 | .00044 | .00055 | .129 | .0069 | .00331 | .005 | .0006 | .00030 |
| %RSD | .76132 | 2.5174 | 2.3932 | .28514 | .08765 | 17.874 | .04395 | .05966 | 6.0628 |
| #1 | .01811 | .01724 | .02255 | 45.355 | 7.8661 | .02087 | 11.204 | 1.0159 | .00518 |
| #2 | .01792 | .01787 | .02333 | 45.172 | 7.8564 | .01618 | 11.211 | 1.0167 | .00476 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48501** | **.01541** | **1.1155** | **.03506** | **.59383** | **-.00113** | **.02502** | **2.7739** | **.00222** |
| Stddev | .01354 | .00002 | .0021 | .00021 | .00626 | .00016 | .00224 | .0156 | .00034 |
| %RSD | 2.7911 | .14828 | .18694 | .59375 | 1.0543 | 14.284 | 8.9725 | .56385 | 15.165 |
| #1 | .49458 | .01542 | 1.1170 | .03521 | .58941 | -.00101 | .02343 | 2.7850 | .00246 |
| #2 | .47544 | .01539 | 1.1141 | .03491 | .59826 | -.00124 | .02661 | 2.7629 | .00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21419** | **.02439** | **.22448** | **-.00232** | W **-.06210** | **.24901** | **.12255** | **.01597** |
| Stddev | .00104 | .00013 | .00248 | .00072 | .04167 | .00028 | .00056 | .00125 |
| %RSD | .48701 | .55001 | 1.1045 | 30.954 | 67.100 | .11254 | .45389 | 7.8432 |
| #1 | .21345 | .02448 | .22623 | -.00283 | -.03264 | .24920 | .12294 | .01509 |
| #2 | .21493 | .02429 | .22273 | -.00181 | -.09157 | .24881 | .12216 | .01686 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5463.9** | **68883.** | **3020.7** |
| Stddev | 4.4 | 8. | 6.8 |
| %RSD | .08097 | .01133 | .22486 |
| #1 | 5467.0 | 68889. | 3025.5 |
| #2 | 5460.8 | 68878. | 3015.9 |

Sample Name: sd 42019-B-12-A@5 Acquired: 5/18/2013 10:05:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **5.3664** | **.00743** | **.00847** | **.28705** | **.00036** | **.00043** | **28.607** | **.00026** |
| Stddev | .00005 | .0324 | .00103 | .00001 | .00070 | .00007 | .00118 | .145 | .00018 |
| %RSD | 71.400 | .60439 | 13.880 | .06564 | .24267 | 18.558 | 276.67 | .50828 | 68.249 |
| #1 | -.00011 | 5.3435 | .00670 | .00847 | .28754 | .00032 | .00127 | 28.504 | .00038 |
| #2 | -.00004 | 5.3894 | .00816 | .00848 | .28655 | .00041 | -.00041 | 28.710 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00355** | **.00373** | **.00542** | **9.2707** | **1.6190** | **.00481** | **2.3136** | **.20606** | **.00144** |
| Stddev | .00028 | .00004 | .00001 | .0004 | .0167 | .00077 | .0009 | .00018 | .00006 |
| %RSD | 7.9245 | 1.2004 | .09792 | .00432 | 1.0330 | 16.089 | .03739 | .08706 | 3.9528 |
| #1 | .00335 | .00370 | .00542 | 9.2704 | 1.6308 | .00426 | 2.3142 | .20593 | .00140 |
| #2 | .00375 | .00376 | .00543 | 9.2710 | 1.6072 | .00535 | 2.3130 | .20618 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12208** | **.00356** | **.22216** | **.00663** | **.11755** | **-.00231** | **.00555** | **.54752** | **.00064** |
| Stddev | .01696 | .00037 | .00058 | .00126 | .00062 | .00043 | .00142 | .03170 | .00046 |
| %RSD | 13.889 | 10.467 | .26015 | 18.995 | .53017 | 18.521 | 25.544 | 5.7904 | 71.627 |
| #1 | .13407 | .00329 | .22257 | .00574 | .11711 | -.00261 | .00656 | .56994 | .00032 |
| #2 | .11009 | .00382 | .22175 | .00752 | .11799 | -.00200 | .00455 | .52510 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04406** | **.00178** | **.04756** | **-.00022** | **-.04774** | **.05038** | **.02904** | **.00236** |
| Stddev | .00019 | .00296 | .00435 | .00017 | .05011 | .00021 | .00003 | .00266 |
| %RSD | .42656 | 166.24 | 9.1439 | 78.365 | 104.96 | .42577 | .08915 | 112.79 |
| #1 | .04392 | -.00031 | .05064 | -.00034 | -.01231 | .05053 | .02906 | .00425 |
| #2 | .04419 | .00387 | .04449 | -.00010 | -.08318 | .05023 | .02902 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5432.5** | **67833.** | **2953.2** |
| Stddev | 28.6 | 208. | 15.9 |
| %RSD | .52716 | .30722 | .53821 |
| #1 | 5412.3 | 67686. | 2964.5 |
| #2 | 5452.8 | 67981. | 2942.0 |

Sample Name: 280-42019-B-12-B MS  Acquired: 5/18/2013 10:07:55  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.05532** | **59.927** | k **.98409** | **.99707** | **3.4840** | k **.04984** | k **1.9203** | **168.22** | k **.10946** |
| Stddev | .00021 | .232 | .00503 | .00075 | .0181 | .00043 | .0059 | .77 | .00006 |
| %RSD | .37760 | .38717 | .51090 | .07488 | .52046 | .86145 | .30550 | .45668 | .05936 |
| #1 | k .05547 | 60.091 | k .98765 | .99759 | 3.4968 | k .05015 | k 1.9162 | 168.76 | k .10951 |
| #2 | k .05517 | 59.763 | k .98054 | .99654 | 3.4712 | k .04954 | k 1.9245 | 167.68 | k .10942 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.49568** | k **.22632** | k **.27084** | k **43.642** | **65.214** | **1.0170** | k **64.877** | **1.4469** | **.97260** |
| Stddev | .00024 | .00035 | .00102 | .258 | .328 | .0037 | .023 | .0001 | .00080 |
| %RSD | .04834 | .15625 | .37686 | .59098 | .50283 | .36658 | .03545 | .00958 | .08274 |
| #1 | k .49584 | k .22607 | k .27156 | k 43.825 | 65.446 | 1.0196 | k 64.893 | 1.4470 | .97317 |
| #2 | k .49551 | k .22657 | k .27012 | k 43.460 | 64.982 | 1.0143 | k 64.861 | 1.4468 | .97203 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.613** | **.49499** | **10.899** | k **.51170** | **.64200** | k **.38409** | k **1.9268** | k **5.1356** | k **1.9022** |
| Stddev | .077 | .00016 | .021 | .00270 | .00040 | .00165 | .0090 | .0391 | .0010 |
| %RSD | .15464 | .03253 | .19303 | .52783 | .06199 | .43029 | .46880 | .76072 | .05058 |
| #1 | 49.559 | .49511 | 10.914 | k .50979 | .64229 | k .38526 | k 1.9204 | k 5.1633 | k 1.9015 |
| #2 | 49.667 | .49488 | 10.884 | k .51361 | .64172 | k .38292 | k 1.9332 | k 5.1080 | k 1.9029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1721** | k **1.0642** | k **1.5716** | k **1.9252** | k **1.9689** | k **.71484** | k **.57726** | k **.54112** |
| Stddev | .0049 | .0002 | .0036 | .0028 | .0205 | .00138 | .00198 | .00417 |
| %RSD | .41801 | .01858 | .22978 | .14601 | 1.0440 | .19300 | .34310 | .77058 |
| #1 | 1.1756 | k 1.0643 | k 1.5741 | k 1.9232 | k 1.9543 | k .71581 | k .57866 | k .54406 |
| #2 | 1.1686 | k 1.0640 | k 1.5690 | k 1.9272 | k 1.9834 | k .71386 | k .57586 | k .53817 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5342.2** | **66277.** | **2985.8** |
| Stddev | 11.1 | 50. | 16.9 |
| %RSD | .20784 | .07507 | .56546 |
| #1 | 5334.4 | 66312. | 2973.9 |
| #2 | 5350.1 | 66242. | 2997.8 |

Sample Name: 280-42019-B-12-C MSD Acquired: 5/18/2013 10:10:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.05450** | **51.280** | k **.98354** | **.98732** | **3.3383** | k **.04966** | k **1.9243** | **158.59** | k **.10895** |
| Stddev | .00018 | .006 | .00000 | .00154 | .0129 | .00026 | .0022 | .06 | .00021 |
| %RSD | .33897 | .01125 | .00039 | .15573 | .38776 | .52501 | .11558 | .03996 | .18856 |
| #1 | k .05437 | 51.284 | k .98354 | .98624 | 3.3475 | k .04984 | k 1.9258 | 158.55 | k .10909 |
| #2 | k .05463 | 51.276 | k .98354 | .98841 | 3.3291 | k .04947 | k 1.9227 | 158.64 | k .10880 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.49225** | k **.21978** | k **.26760** | k **41.244** | **62.928** | **1.0148** | k **60.729** | **1.3477** | **.96922** |
| Stddev | .00113 | .00007 | .00047 | .045 | .044 | .0029 | .146 | .0036 | .00022 |
| %RSD | .22990 | .03311 | .17454 | .10995 | .06917 | .28664 | .23978 | .26342 | .02306 |
| #1 | k .49145 | k .21983 | k .26793 | k 41.276 | 62.897 | 1.0169 | k 60.832 | 1.3502 | .96938 |
| #2 | k .49305 | k .21973 | k .26727 | k 41.212 | 62.959 | 1.0128 | k 60.626 | 1.3452 | .96907 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.316** | **.49183** | **10.635** | k **.51169** | **.57016** | k **.39774** | k **1.9342** | k **4.5702** | k **1.9061** |
| Stddev | .073 | .00025 | .016 | .00100 | .00893 | .00241 | .0070 | .0308 | .0028 |
| %RSD | .14742 | .05045 | .14934 | .19463 | 1.5659 | .60540 | .36422 | .67365 | .14633 |
| #1 | 49.265 | .49166 | 10.624 | k .51098 | .56384 | k .39944 | k 1.9292 | k 4.5484 | k 1.9041 |
| #2 | 49.368 | .49201 | 10.646 | k .51239 | .57647 | k .39604 | k 1.9392 | k 4.5920 | k 1.9081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1570** | k **1.0579** | k **1.4506** | k **1.9336** | k **1.9528** | k **.66638** | k **.56094** | k **.54005** |
| Stddev | .0010 | .0027 | .0004 | .0056 | .0410 | .00347 | .00263 | .00060 |
| %RSD | .08845 | .25296 | .02612 | .29096 | 2.0988 | .52129 | .46849 | .11037 |
| #1 | 1.1563 | k 1.0598 | k 1.4509 | k 1.9296 | k 1.9818 | k .66884 | k .56280 | k .54047 |
| #2 | 1.1577 | k 1.0560 | k 1.4503 | k 1.9376 | k 1.9238 | k .66393 | k .55908 | k .53963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5369.4** | **67445.** | **2975.1** |
| Stddev | 2.9 | 334. | 4.7 |
| %RSD | .05401 | .49511 | .15906 |
| #1 | 5367.3 | 67209. | 2971.7 |
| #2 | 5371.4 | 67681. | 2978.4 |

Sample Name: 280-42019-B-13-A  Acquired: 5/18/2013 10:12:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **27.028** | **.01772** | **.02128** | **.53571** | **.00156** | **.00272** | **151.98** | **.00048** |
| Stddev | .00051 | .037 | .00270 | .00002 | .00070 | .00003 | .00088 | .52 | .00000 |
| %RSD | 124.72 | .13720 | 15.260 | .11237 | .13040 | 1.7071 | 32.297 | .34213 | .54076 |
| #1 | -.00077 | 27.054 | .01581 | .02126 | .53521 | .00158 | .00210 | 151.61 | .00048 |
| #2 | -.00005 | 27.002 | .01964 | .02129 | .53620 | .00155 | .00334 | 152.35 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00950** | **.01458** | **.01766** | **28.721** | **8.5317** | **.01844** | **9.3555** | **1.2893** | **.00265** |
| Stddev | .00004 | .00005 | .00033 | .091 | .0145 | .00086 | .0158 | .0049 | .00004 |
| %RSD | .46665 | .31941 | 1.8820 | .31744 | .16973 | 4.6573 | .16833 | .37982 | 1.4152 |
| #1 | .00953 | .01454 | .01789 | 28.656 | 8.5214 | .01905 | 9.3444 | 1.2858 | .00262 |
| #2 | .00947 | .01461 | .01742 | 28.785 | 8.5419 | .01784 | 9.3666 | 1.2927 | .00267 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39334** | **.01208** | **.94868** | **.02636** | **.41159** | **-.00071** | **.00363** | **2.0125** | **.00269** |
| Stddev | .00585 | .00035 | .00147 | .00039 | .00072 | .00078 | .00048 | .0092 | .00014 |
| %RSD | 1.4869 | 2.9232 | .15450 | 1.4916 | .17473 | 109.61 | 13.343 | .45781 | 5.2934 |
| #1 | .39748 | .01183 | .94764 | .02664 | .41108 | -.00127 | .00398 | 2.0190 | .00259 |
| #2 | .38920 | .01233 | .94971 | .02608 | .41210 | -.00016 | .00329 | 2.0060 | .00279 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24113** | **.02268** | **.16671** | **-.00051** | W **-.09934** | **.10351** | **.06342** | **.01298** |
| Stddev | .00038 | .00254 | .00263 | .00074 | .05649 | .00077 | .00140 | .00109 |
| %RSD | .15916 | 11.179 | 1.5748 | 145.20 | 56.862 | .74054 | 2.2088 | 8.3960 |
| #1 | .24086 | .02447 | .16856 | .00001 | -.13928 | .10405 | .06243 | .01375 |
| #2 | .24140 | .02089 | .16485 | -.00103 | -.05940 | .10297 | .06441 | .01221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5494.0** | **68590.** | **3025.8** |
| Stddev | 6.8 | 276. | 14.4 |
| %RSD | .12460 | .40233 | .47480 |
| #1 | 5498.8 | 68785. | 3036.0 |
| #2 | 5489.1 | 68395. | 3015.6 |

Sample Name: 280-42019-B-14-A Acquired: 5/18/2013 10:14:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00082** | **43.846** | **.03121** | **.02691** | **1.0242** | **.00257** | **-.00014** | **163.95** | **.00053** |
| Stddev | .00023 | .159 | .00046 | .00016 | .0063 | .00016 | .00094 | .77 | .00007 |
| %RSD | 27.386 | .36251 | 1.4802 | .59741 | .61070 | 6.1014 | 690.70 | .46796 | 13.353 |
| #1 | -.00098 | 43.959 | .03088 | .02703 | 1.0286 | .00269 | -.00080 | 164.49 | .00058 |
| #2 | -.00066 | 43.734 | .03154 | .02680 | 1.0198 | .00246 | .00053 | 163.40 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01563** | **.01944** | **.02849** | **50.450** | **11.735** | **.02925** | **12.658** | **1.6318** | **.01730** |
| Stddev | .00025 | .00016 | .00039 | .017 | .102 | .00029 | .006 | .0005 | .00025 |
| %RSD | 1.6132 | .81960 | 1.3861 | .03303 | .87019 | .98854 | .04811 | .03035 | 1.4272 |
| #1 | .01581 | .01932 | .02877 | 50.461 | 11.807 | .02905 | 12.663 | 1.6315 | .01747 |
| #2 | .01545 | .01955 | .02822 | 50.438 | 11.663 | .02946 | 12.654 | 1.6322 | .01713 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.79294** | **.01906** | **1.5286** | **.04330** | **1.3188** | **-.00069** | **.01403** | **2.2263** | **.00321** |
| Stddev | .01063 | .00003 | .0014 | .00134 | .0041 | .00025 | .00217 | .0458 | .00010 |
| %RSD | 1.3410 | .15753 | .09313 | 3.1020 | .31351 | 35.729 | 15.497 | 2.0567 | 3.0911 |
| #1 | .80046 | .01904 | 1.5276 | .04424 | 1.3217 | -.00052 | .01557 | 2.2587 | .00314 |
| #2 | .78542 | .01908 | 1.5296 | .04235 | 1.3158 | -.00087 | .01249 | 2.1939 | .00328 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37575** | **.03268** | **.20293** | **-.00147** | **-.03584** | **.16273** | **.09618** | **.01763** |
| Stddev | .00221 | .00084 | .00016 | .00042 | .00626 | .00091 | .00138 | .00043 |
| %RSD | .58746 | 2.5696 | .07663 | 28.816 | 17.468 | .55912 | 1.4358 | 2.4506 |
| #1 | .37731 | .03327 | .20304 | -.00117 | -.04027 | .16209 | .09716 | .01732 |
| #2 | .37419 | .03208 | .20282 | -.00177 | -.03142 | .16338 | .09521 | .01793 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5540.1** | **68953.** | **3078.2** |
| Stddev | 19.4 | 74. | 7.3 |
| %RSD | .35093 | .10693 | .23839 |
| #1 | 5526.3 | 69005. | 3073.0 |
| #2 | 5553.8 | 68901. | 3083.4 |

Sample Name: 280-42019-B-15-A  Acquired: 5/18/2013 10:17:08  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **61.458** | **.02152** | **.02528** | **.78657** | **.00298** | **.00004** | **42.242** | **.00104** |
| Stddev | .00027 | .443 | .00126 | .00016 | .00674 | .00015 | .00246 | .395 | .00021 |
| %RSD | 119.13 | .72080 | 5.8381 | .61614 | .85673 | 5.0307 | 5573.5 | .93561 | 20.288 |
| #1 | .00004 | 61.772 | .02241 | .02539 | .79134 | .00308 | .00178 | 42.521 | .00119 |
| #2 | .00041 | 61.145 | .02064 | .02517 | .78181 | .00287 | -.00169 | 41.962 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02718** | **.04176** | **.04307** | **57.834** | **14.546** | **.04258** | **14.670** | **2.5165** | **.00291** |
| Stddev | .00013 | .00018 | .00041 | .238 | .137 | .00072 | .088 | .0120 | .00012 |
| %RSD | .47919 | .42462 | .95768 | .41166 | .94053 | 1.6818 | .60302 | .47491 | 4.2831 |
| #1 | .02728 | .04164 | .04278 | 58.002 | 14.643 | .04309 | 14.608 | 2.5081 | .00300 |
| #2 | .02709 | .04189 | .04337 | 57.665 | 14.449 | .04207 | 14.733 | 2.5250 | .00283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55010** | **.03474** | **1.7515** | **.05573** | **.52686** | **-.00284** | **-.00147** | **5.4942** | **.00358** |
| Stddev | .02106 | .00017 | .0045 | .00085 | .00402 | .00312 | .00303 | .3186 | .00027 |
| %RSD | 3.8282 | .48626 | .25891 | 1.5254 | .76371 | 110.17 | 206.02 | 5.7991 | 7.4126 |
| #1 | .56499 | .03486 | 1.7547 | .05513 | .52970 | -.00505 | .00067 | 5.7195 | .00340 |
| #2 | .53521 | .03462 | 1.7483 | .05633 | .52401 | -.00063 | -.00361 | 5.2689 | .00377 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12484** | **.03817** | **.64153** | **-.00093** | F **-.13284** | **.12308** | **.15807** | **.03629** |
| Stddev | .00042 | .00034 | .00322 | .00041 | .01610 | .00065 | .00165 | .00144 |
| %RSD | .33632 | .90260 | .50230 | 43.748 | 12.116 | .52806 | 1.0413 | 3.9694 |
| #1 | .12514 | .03793 | .64381 | -.00065 | -.14423 | .12262 | .15691 | .03527 |
| #2 | .12455 | .03842 | .63925 | -.00122 | -.12146 | .12354 | .15924 | .03731 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5691.7** | **71403.** | **3142.3** |
| Stddev | .5 | 127. | 29.1 |
| %RSD | .00941 | .17791 | .92600 |
| #1 | 5691.3 | 71493. | 3121.8 |
| #2 | 5692.1 | 71313. | 3162.9 |

Sample Name: 280-42019-B-16-A  Acquired: 5/18/2013 10:19:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173770 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **22.917** | **.01950** | **.01785** | **.87700** | **.00126** | **-.00301** | **141.90** | **.00036** |
| Stddev | .00007 | .165 | .00065 | .00024 | .00578 | .00016 | .00319 | 1.12 | .00010 |
| %RSD | 14.929 | .72179 | 3.3221 | 1.3422 | .65869 | 12.648 | 105.89 | .79023 | 28.936 |
| #1 | -.00041 | 23.034 | .01905 | .01802 | .88109 | .00115 | -.00076 | 142.69 | .00028 |
| #2 | -.00051 | 22.800 | .01996 | .01768 | .87292 | .00138 | -.00527 | 141.11 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00950** | **.01494** | **.01628** | **29.516** | **7.0201** | **.01701** | **10.564** | **1.1660** | **.00155** |
| Stddev | .00002 | .00010 | .00036 | .235 | .1287 | .00062 | .028 | .0020 | .00005 |
| %RSD | .24920 | .64373 | 2.2074 | .79526 | 1.8330 | 3.6623 | .26639 | .17290 | 3.0859 |
| #1 | .00951 | .01500 | .01603 | 29.682 | 7.1111 | .01745 | 10.584 | 1.1674 | .00158 |
| #2 | .00948 | .01487 | .01653 | 29.350 | 6.9291 | .01657 | 10.544 | 1.1646 | .00151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44018** | **.01310** | **.96303** | **.03137** | **.47577** | **-.00129** | **.00187** | **1.8479** | **.00207** |
| Stddev | .00129 | .00007 | .00328 | .00070 | .00162 | .00146 | .00051 | .0526 | .00018 |
| %RSD | .29226 | .55974 | .34071 | 2.2406 | .34062 | 113.21 | 27.174 | 2.8488 | 8.4715 |
| #1 | .43927 | .01305 | .96535 | .03187 | .47691 | -.00026 | .00151 | 1.8107 | .00195 |
| #2 | .44109 | .01315 | .96071 | .03088 | .47462 | -.00233 | .00223 | 1.8851 | .00220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20087** | **.01821** | **.17974** | **-.00047** | W **-.08674** | **.11402** | **.10032** | **.01464** |
| Stddev | .00093 | .00219 | .00178 | .00089 | .00958 | .00068 | .00016 | .00323 |
| %RSD | .46261 | 12.028 | .99307 | 187.95 | 11.045 | .59729 | .15855 | 22.042 |
| #1 | .20153 | .01666 | .18100 | .00016 | -.09351 | .11450 | .10021 | .01236 |
| #2 | .20021 | .01976 | .17848 | -.00111 | -.07997 | .11353 | .10043 | .01692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5491.5** | **68428.** | **3020.1** |
| Stddev | .4 | 340. | 15.0 |
| %RSD | .00743 | .49623 | .49758 |
| #1 | 5491.3 | 68188. | 3009.5 |
| #2 | 5491.8 | 68668. | 3030.7 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 10:21:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **49.653** | **.00125** | **.00404** | **.00118** | **-.00015** | **1.0047** | **.06186** | **-.00074** | **.00194** | **.00012** | **.00205** | **49.565** |
| Stddev | .00037 | .156 | .00086 | .00046 | .00018 | .00000 | .0062 | .00838 | .00009 | .00014 | .00020 | .00012 | .017 |
| %RSD | 210.66 | .31445 | 68.456 | 11.342 | 15.128 | 1.8623 | .61305 | 13.548 | 12.773 | 7.3400 | 171.15 | 5.8568 | .03422 |
| #1 | -.00043 | 49.542 | .00186 | .00371 | .00131 | -.00015 | 1.0090 | .06778 | -.00067 | .00184 | -.00002 | .00196 | 49.577 |
| #2 | .00009 | 49.763 | .00065 | .00436 | .00106 | -.00014 | 1.0003 | .05593 | -.00080 | .00205 | .00026 | .00213 | 49.553 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11426** | **.00121** | **.02371** | **.00071** | **-.00161** | **248.40** | **.00105** | **.00674** | **.00033** | **4.9834** | **-.00011** | **.00727** | **.01414** |
| Stddev | .00565 | .00005 | .00705 | .00009 | .00022 | .52 | .00058 | .00058 | .00045 | .0088 | .00119 | .00200 | .00865 |
| %RSD | 4.9417 | 3.9146 | 29.736 | 12.974 | 13.846 | .21005 | 55.285 | 8.6456 | 134.83 | .17723 | 1074.7 | 27.493 | 61.182 |
| #1 | .11027 | .00124 | .02870 | .00078 | -.00176 | 248.03 | .00145 | .00633 | .00002 | 4.9897 | -.00095 | .00586 | .00802 |
| #2 | .11826 | .00117 | .01873 | .00065 | -.00145 | 248.77 | .00064 | .00716 | .00065 | 4.9772 | .00073 | .00869 | .02026 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00155** | **.00076** | **4.9591** | **.00370** | **-.00008** | **9.9867** | **.00055** | **.00370** | **-.02660** |
| Stddev | .00043 | .00000 | .0050 | .00061 | .00061 | .0757 | .00011 | .00008 | .00157 |
| %RSD | 27.912 | .03153 | .10059 | 16.459 | 809.42 | .75830 | 20.088 | 2.2401 | 5.8834 |
| #1 | .00124 | .00076 | 4.9555 | .00413 | .00036 | 10.040 | .00047 | .00376 | -.02550 |
| #2 | .00186 | .00076 | 4.9626 | .00327 | -.00051 | 9.9332 | .00062 | .00365 | -.02771 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5356.1** | **67364.** | **2931.8** |
| Stddev | 5.5 | 7. | 1.2 |
| %RSD | .10308 | .01082 | .04215 |
| #1 | 5360.0 | 67359. | 2932.7 |
| #2 | 5352.2 | 67370. | 2930.9 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 10:24:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50068** | **.54219** | **.99909** | **.50425** | **.50527** | **.50060** | **.00147** | **5.1004** | **.50229** | **.50887** | **.50451** | **.50167** | **2.5508** |
| Stddev | .00188 | .00041 | .00129 | .00065 | .00244 | .00103 | .00235 | .0105 | .00086 | .00186 | .00107 | .00032 | .0099 |
| %RSD | .37527 | .07543 | .12918 | .12794 | .48239 | .20629 | 159.65 | .20671 | .17093 | .36455 | .21254 | .06338 | .38755 |
| #1 | .49935 | .54190 | 1.0000 | .50379 | .50699 | .50133 | -.00019 | 5.1079 | .50168 | .50755 | .50375 | .50144 | 2.5577 |
| #2 | .50201 | .54248 | .99818 | .50470 | .50354 | .49987 | .00313 | 5.0930 | .50290 | .51018 | .50527 | .50189 | 2.5438 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.735** | **1.0273** | **20.100** | **.50377** | **.50426** | **5.1876** | **.51021** | **1.0024** | **1.0150** | **-.00311** | **1.0047** | **.99640** | **5.0194** |
| Stddev | .069 | .0035 | .007 | .00052 | .00141 | .0222 | .00182 | .0004 | .0043 | .00341 | .0016 | .00363 | .0167 |
| %RSD | .13633 | .34122 | .03310 | .10274 | .28004 | .42847 | .35726 | .04199 | .42212 | 109.44 | .15805 | .36478 | .33219 |
| #1 | 50.686 | 1.0297 | 20.096 | .50341 | .50326 | 5.2033 | .50892 | 1.0021 | 1.0119 | -.00553 | 1.0059 | .99897 | 5.0077 |
| #2 | 50.784 | 1.0248 | 20.105 | .50414 | .50526 | 5.1719 | .51150 | 1.0027 | 1.0180 | -.00070 | 1.0036 | .99383 | 5.0312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0095** | **.50369** | **.00076** | **.50330** | **1.0086** | **.02451** | **.50334** | **.50533** | **.50028** |
| Stddev | .0014 | .00028 | .00253 | .00119 | .0051 | .03116 | .00018 | .00039 | .00314 |
| %RSD | .14159 | .05538 | 334.71 | .23619 | .50899 | 127.17 | .03640 | .07781 | .62848 |
| #1 | 1.0085 | .50388 | .00255 | .50246 | 1.0049 | .00247 | .50347 | .50561 | .50251 |
| #2 | 1.0105 | .50349 | -.00103 | .50414 | 1.0122 | .04654 | .50321 | .50505 | .49806 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5399.0** | **68104.** | **2916.8** |
| Stddev | 4.3 | 53. | 11.3 |
| %RSD | .07911 | .07750 | .38745 |
| #1 | 5396.0 | 68067. | 2908.8 |
| #2 | 5402.0 | 68141. | 2924.8 |

Sample Name: CCB Acquired: 5/18/2013 10:26:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | W **.03002** | **-.00040** | F **.00389** | W **.00101** | **.00005** | **-.00034** | W **.06470** | **.00008** | **.00007** | **.00008** |
| Stddev | .00096 | .00029 | .00063 | .00118 | .00079 | .00013 | .00310 | .00681 | .00009 | .00035 | .00002 |
| %RSD | 157.76 | .95238 | 158.66 | 30.255 | 77.609 | 247.59 | 907.12 | 10.526 | 112.41 | 522.19 | 23.800 |
| #1 | -.00129 | .03022 | -.00084 | .00306 | .00046 | -.00004 | -.00253 | .05988 | .00014 | .00032 | .00006 |
| #2 | .00007 | .02982 | .00005 | .00472 | .00157 | .00015 | .00185 | .06952 | .00002 | -.00018 | .00009 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .01800 | | .00312 | .00058 | | | .03450 | | | |
| Low Limit | | -.01800 | | -.00312 | -.00058 | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | W **.03199** | **.10930** | **.00064** | F **.02230** | F **.00069** | **.00025** | **.06767** | **-.00036** | **.00306** | W **.00263** |
| Stddev | .00005 | .00068 | .02091 | .00213 | .00034 | .00007 | .00033 | .00606 | .00007 | .00104 | .00257 |
| %RSD | 6.7167 | 2.1309 | 19.131 | 335.66 | 1.5397 | 10.257 | 130.37 | 8.9522 | 20.008 | 34.063 | 97.717 |
| #1 | .00074 | .03151 | .12408 | -.00087 | .02254 | .00074 | .00002 | .07196 | -.00031 | .00379 | .00445 |
| #2 | .00081 | .03247 | .09451 | .00214 | .02205 | .00064 | .00049 | .06339 | -.00041 | .00232 | .00081 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | .02200 | | | .02140 | .00051 | | | | | .00261 |
| Low Limit | | -.02200 | | | -.02140 | -.00051 | | | | | -.00261 |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **.00050** | **.00196** | **.02751** | **.00065** | W **.00056** | **.00059** | W **.00075** | **.00173** | **-.00284** | **.00068** |
| Stddev | .00107 | .00082 | .00109 | .01228 | .00020 | .00002 | .00094 | .00005 | .00044 | .01724 | .00031 |
| %RSD | 82.338 | 162.35 | 55.868 | 44.642 | 30.960 | 3.8507 | 159.62 | 6.4603 | 25.198 | 606.14 | 45.918 |
| #1 | .00054 | .00108 | .00118 | .01883 | .00080 | .00055 | .00125 | .00071 | .00142 | -.01503 | .00089 |
| #2 | .00206 | -.00007 | .00273 | .03620 | .00051 | .00058 | -.00008 | .00078 | .00204 | .00934 | .00046 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00030 | | .00060 | | | |
| Low Limit | | | | | | -.00030 | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00299** | **.00162** |
| Stddev | .00007 | .00242 |
| %RSD | 2.4521 | 149.61 |
| #1 | .00294 | -.00009 |
| #2 | .00304 | .00334 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5403.8** | **67745.** | **2888.0** |
| Stddev | 6.1 | 82. | 9.7 |
| %RSD | .11215 | .12109 | .33437 |
| #1 | 5408.1 | 67803. | 2881.1 |
| #2 | 5399.5 | 67687. | 2894.8 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 10:29:04 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01039** | F **.13586** | **.01433** | **.10315** | **.01148** | **.00106** | **.10194** | W **.25916** | **.00524** | **.01056** | **.01027** |
| Stddev | .00017 | .00011 | .00116 | .00054 | .00023 | .00007 | .00192 | .00269 | .00004 | .00010 | .00001 |
| %RSD | 1.6515 | .08091 | 8.1165 | .52767 | 2.0177 | 6.2437 | 1.8791 | 1.0383 | .76176 | .97188 | .05695 |
| #1 | .01027 | .13594 | .01351 | .10277 | .01132 | .00101 | .10059 | .26106 | .00527 | .01063 | .01027 |
| #2 | .01051 | .13579 | .01515 | .10354 | .01165 | .00111 | .10329 | .25726 | .00521 | .01048 | .01028 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | .20000 | | | |
| Range | | 30.000% | | | | | | 20.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01561** | F **.13392** | **3.1726** | W **.01281** | **.22650** | **.01087** | **.02035** | **1.1064** | **.04161** | **2.9406** | **.01066** |
| Stddev | .00009 | .00064 | .0776 | .00032 | .00087 | .00000 | .00051 | .0108 | .00016 | .0120 | .00042 |
| %RSD | .57850 | .47434 | 2.4449 | 2.5356 | .38396 | .00939 | 2.4989 | .97374 | .37674 | .40777 | 3.9062 |
| #1 | .01554 | .13437 | 3.1177 | .01304 | .22588 | .01086 | .02071 | 1.1140 | .04172 | 2.9491 | .01036 |
| #2 | .01567 | .13347 | 3.2274 | .01258 | .22711 | .01087 | .01999 | 1.0988 | .04150 | 2.9321 | .01095 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | | | | | | | |
| Range | | 30.000% | | 20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **.01011** | **.01502** | **.51784** | **.10275** | **.01072** | **.01565** | **.01028** | **.01503** | F **.02774** | **.01027** |
| Stddev | .00446 | .00123 | .00240 | .00492 | .00016 | .00024 | .00042 | .00007 | .00209 | .02618 | .00035 |
| %RSD | 266.68 | 12.191 | 15.958 | .95077 | .15449 | 2.2727 | 2.6578 | .72771 | 13.937 | 94.374 | 3.3790 |
| #1 | -.00148 | .01098 | .01672 | .52132 | .10263 | .01054 | .01594 | .01033 | .01355 | .04625 | .01052 |
| #2 | .00482 | .00924 | .01333 | .51436 | .10286 | .01089 | .01535 | .01023 | .01651 | .00923 | .01003 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02366** | **.01442** |
| Stddev | .00016 | .00229 |
| %RSD | .69581 | 15.902 |
| #1 | .02354 | .01604 |
| #2 | .02378 | .01280 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5473.1** | **69185.** | **2944.9** |
| Stddev | 8.2 | 173. | 13.8 |
| %RSD | .14955 | .25053 | .46883 |
| #1 | 5467.3 | 69063. | 2935.1 |
| #2 | 5478.9 | 69308. | 2954.6 |

Sample Name: MB 280-173876/1-A Acquired: 5/18/2013 10:31:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | W **.02560** | **-.00038** | W **.00328** | W **.00077** | **-.00013** | **.00029** | W **.04747** | **.00036** |
| Stddev | .00057 | .00078 | .00116 | .00030 | .00015 | .00005 | .00106 | .00153 | .00008 |
| %RSD | 3234.2 | 3.0580 | 305.77 | 9.1843 | 20.013 | 36.704 | 366.99 | 3.2255 | 20.962 |
| #1 | -.00042 | .02615 | .00044 | .00307 | .00088 | -.00016 | .00104 | .04855 | .00031 |
| #2 | .00039 | .02505 | -.00120 | .00349 | .00066 | -.00010 | -.00046 | .04639 | .00041 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | .01800 | | .00156 | .00058 | | | .03450 | |
| Low Limit | | -.01800 | | -.00156 | -.00058 | | | -.03450 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **-.00007** | **.00080** | W **.03125** | **.05561** | **-.00078** | W **.01778** | F **.00066** | **.00033** |
| Stddev | .00007 | .00016 | .00012 | .00115 | .02581 | .00367 | .00617 | .00007 | .00012 |
| %RSD | 250.60 | 233.51 | 15.104 | 3.6747 | 46.420 | 471.20 | 34.698 | 10.607 | 35.550 |
| #1 | .00002 | -.00018 | .00088 | .03044 | .07386 | -.00338 | .02214 | .00061 | .00041 |
| #2 | -.00008 | .00004 | .00071 | .03206 | .03736 | .00182 | .01342 | .00071 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass |
| High Limit | | | | .02200 | | | .01070 | .00056 | |
| Low Limit | | | | -.02200 | | | -.01070 | -.00056 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04003** | **-.00043** | F **.23745** | **.00067** | **-.00029** | **-.00171** | **.00234** | W **.03713** | **.00143** |
| Stddev | .01175 | .00006 | .00031 | .00132 | .00068 | .00036 | .00388 | .01226 | .00087 |
| %RSD | 29.354 | 12.839 | .13152 | 196.66 | 236.58 | 21.021 | 165.64 | 33.017 | 61.229 |
| #1 | .04834 | -.00047 | .23768 | -.00026 | .00019 | -.00197 | .00508 | .02846 | .00081 |
| #2 | .03172 | -.00039 | .23723 | .00161 | -.00077 | -.00146 | -.00040 | .04580 | .00204 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .02970 | | | | | .03470 | |
| Low Limit | | | -.02970 | | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **-.00070** | **.00025** | **.00112** | **-.01502** | **-.00040** | **.00338** | **.00210** |
| Stddev | .00017 | .00201 | .00011 | .00064 | .06518 | .00004 | .00051 | .00300 |
| %RSD | 69.273 | 286.55 | 45.556 | 57.436 | 433.96 | 10.345 | 14.968 | 143.10 |
| #1 | .00013 | -.00212 | .00017 | .00067 | .03107 | -.00043 | .00374 | -.00002 |
| #2 | .00037 | .00072 | .00033 | .00158 | -.06110 | -.00037 | .00302 | .00422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5551.8** | **70022.** | **2979.6** |
| Stddev | 13.4 | 248. | 2.4 |
| %RSD | .24208 | .35394 | .08009 |
| #1 | 5561.3 | 69847. | 2977.9 |
| #2 | 5542.3 | 70198. | 2981.3 |

Sample Name: LCS 280-173876/2-A Acquired: 5/18/2013 10:33:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05204** | **2.0045** | **1.0023** | **1.0400** | **2.0410** | **.05104** | **2.0487** | **50.486** | **.10406** |
| Stddev | .00018 | .0019 | .0001 | .0011 | .0225 | .00073 | .0009 | .505 | .00010 |
| %RSD | .35175 | .09529 | .00833 | .10931 | 1.1012 | 1.4309 | .04540 | 1.0008 | .09856 |
| #1 | .05191 | 2.0058 | 1.0024 | 1.0392 | 2.0569 | .05156 | 2.0481 | 50.844 | .10413 |
| #2 | .05217 | 2.0031 | 1.0023 | 1.0409 | 2.0251 | .05052 | 2.0494 | 50.129 | .10399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50280** | **.20352** | **.25406** | **1.0469** | **51.981** | **1.0349** | **50.547** | **.50216** | **1.0407** |
| Stddev | .00098 | .00031 | .00089 | .0144 | .584 | .0093 | .021 | .00043 | .0015 |
| %RSD | .19489 | .15285 | .35163 | 1.3723 | 1.1226 | .89824 | .04188 | .08556 | .14712 |
| #1 | .50210 | .20374 | .25343 | 1.0571 | 52.393 | 1.0414 | 50.532 | .50186 | 1.0396 |
| #2 | .50349 | .20330 | .25469 | 1.0368 | 51.568 | 1.0283 | 50.562 | .50247 | 1.0418 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.760** | **.50281** | **10.529** | **.50654** | **-.00068** | **.52186** | **2.0480** | **10.520** | **2.0605** |
| Stddev | .085 | .00028 | .007 | .00106 | .00093 | .00212 | .0047 | .133 | .0006 |
| %RSD | .16775 | .05523 | .06543 | .20916 | 136.64 | .40581 | .23117 | 1.2601 | .02910 |
| #1 | 50.820 | .50301 | 10.524 | .50579 | -.00133 | .52036 | 2.0447 | 10.614 | 2.0601 |
| #2 | 50.699 | .50262 | 10.534 | .50729 | -.00002 | .52336 | 2.0514 | 10.427 | 2.0609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0189** | **1.0025** | **1.0338** | **2.0445** | **2.0136** | **.51075** | **.50456** | **.50909** |
| Stddev | .0101 | .0022 | .0003 | .0014 | .0505 | .00003 | .00036 | .00490 |
| %RSD | .99259 | .21598 | .02909 | .07022 | 2.5101 | .00566 | .07188 | .96251 |
| #1 | 1.0261 | 1.0010 | 1.0336 | 2.0435 | 2.0494 | .51073 | .50431 | .51256 |
| #2 | 1.0118 | 1.0041 | 1.0340 | 2.0455 | 1.9779 | .51078 | .50482 | .50563 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5423.2** | **67966.** | **2941.3** |
| Stddev | 18.9 | 276. | 35.6 |
| %RSD | .34771 | .40569 | 1.2112 |
| #1 | 5409.8 | 67771. | 2916.1 |
| #2 | 5436.5 | 68161. | 2966.5 |

Sample Name: LCSD 280-173876/3-A Acquired: 5/18/2013 10:36:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05075** | **1.9358** | **.96830** | **1.0123** | **1.9566** | **.04848** | **1.9803** | **48.409** | **.10063** |
| Stddev | .00063 | .0031 | .00928 | .0002 | .0056 | .00011 | .0026 | .076 | .00029 |
| %RSD | 1.2335 | .15973 | .95859 | .01607 | .28399 | .22800 | .12994 | .15625 | .29055 |
| #1 | .05119 | 1.9337 | .97486 | 1.0122 | 1.9527 | .04841 | 1.9821 | 48.355 | .10084 |
| #2 | .05030 | 1.9380 | .96173 | 1.0125 | 1.9605 | .04856 | 1.9785 | 48.462 | .10043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48597** | **.19615** | **.24544** | **1.0031** | **49.829** | **.99127** | **48.699** | **.48303** | **1.0121** |
| Stddev | .00041 | .00004 | .00094 | .0187 | .185 | .00161 | .070 | .00100 | .0002 |
| %RSD | .08339 | .01895 | .38283 | 1.8668 | .37089 | .16217 | .14285 | .20744 | .01707 |
| #1 | .48625 | .19617 | .24477 | 1.0164 | 49.698 | .99014 | 48.650 | .48232 | 1.0122 |
| #2 | .48568 | .19612 | .24610 | .98988 | 49.960 | .99241 | 48.749 | .48374 | 1.0120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.978** | **.48510** | **10.149** | **.48769** | **.00319** | **.50878** | **1.9798** | **10.174** | **2.0069** |
| Stddev | .153 | .00023 | .004 | .00183 | .00212 | .00100 | .0099 | .043 | .0022 |
| %RSD | .31159 | .04654 | .03758 | .37462 | 66.560 | .19709 | .50154 | .42130 | .10776 |
| #1 | 48.870 | .48494 | 10.146 | .48640 | .00469 | .50807 | 1.9728 | 10.204 | 2.0053 |
| #2 | 49.086 | .48526 | 10.152 | .48898 | .00169 | .50949 | 1.9868 | 10.143 | 2.0084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97796** | **.96277** | **1.0018** | **1.9780** | **1.9540** | **.49115** | **.49055** | **.48911** |
| Stddev | .00224 | .00262 | .0029 | .0029 | .0243 | .00041 | .00123 | .00039 |
| %RSD | .22925 | .27248 | .28537 | .14430 | 1.2438 | .08309 | .25070 | .08025 |
| #1 | .97637 | .96092 | .99980 | 1.9760 | 1.9368 | .49144 | .49142 | .48939 |
| #2 | .97954 | .96463 | 1.0038 | 1.9800 | 1.9712 | .49086 | .48968 | .48884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5418.2** | **68251.** | **2994.4** |
| Stddev | 6.1 | 32. | 5.3 |
| %RSD | .11177 | .04672 | .17767 |
| #1 | 5422.4 | 68228. | 2998.1 |
| #2 | 5413.9 | 68273. | 2990.6 |

Sample Name: 280-42115-C-1-A Acquired: 5/18/2013 10:38:27 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.09807** | **.00467** | **.18816** | **.06307** | **-.00010** | **-.00503** | **228.20** | **.00012** |
| Stddev | .00061 | .00074 | .00157 | .00041 | .00023 | .00012 | .00075 | .04 | .00018 |
| %RSD | 1210.5 | .75138 | 33.712 | .21549 | .37068 | 116.56 | 14.848 | .01650 | 143.80 |
| #1 | -.00038 | .09755 | .00578 | .18845 | .06291 | -.00019 | -.00556 | 228.18 | .00025 |
| #2 | .00048 | .09860 | .00356 | .18788 | .06324 | -.00002 | -.00450 | 228.23 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **.00146** | **.01023** | **.04301** | **11.626** | **.07244** | **.46765** | **.00097** | **.02617** |
| Stddev | .00015 | .00005 | .00083 | .00082 | .036 | .00134 | .00098 | .00002 | .00024 |
| %RSD | 93.480 | 3.7686 | 8.0792 | 1.9124 | .31286 | 1.8443 | .21013 | 1.5876 | .92786 |
| #1 | -.00005 | .00150 | .00964 | .04359 | 11.652 | .07149 | .46696 | .00096 | .02634 |
| #2 | -.00026 | .00142 | .01081 | .04243 | 11.601 | .07338 | .46835 | .00098 | .02600 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.579** | **.00185** | **.33225** | **.00671** | **135.18** | **.00507** | **.00370** | **23.379** | **.00045** |
| Stddev | .261 | .00007 | .00012 | .00089 | .15 | .00122 | .00087 | .110 | .00062 |
| %RSD | .91380 | 3.6298 | .03577 | 13.262 | .11124 | 23.982 | 23.426 | .47217 | 138.77 |
| #1 | 28.395 | .00180 | .33216 | .00608 | 135.29 | .00593 | .00431 | 23.301 | .00089 |
| #2 | 28.764 | .00190 | .33233 | .00734 | 135.08 | .00421 | .00308 | 23.458 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.87406** | **.00199** | **.00185** | **.00279** | W **-.05190** | **.24787** | **.03318** | **-.00168** |
| Stddev | .00130 | .00142 | .00037 | .00041 | .00660 | .00099 | .00021 | .00021 |
| %RSD | .14924 | 71.230 | 19.913 | 14.544 | 12.719 | .40142 | .61989 | 12.255 |
| #1 | .87313 | .00299 | .00211 | .00307 | -.04724 | .24716 | .03303 | -.00154 |
| #2 | .87498 | .00099 | .00159 | .00250 | -.05657 | .24857 | .03333 | -.00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5443.8** | **69523.** | **2997.5** |
| Stddev | 14.9 | 218. | 4.5 |
| %RSD | .27462 | .31286 | .15123 |
| #1 | 5433.2 | 69369. | 3000.7 |
| #2 | 5454.4 | 69676. | 2994.3 |

Sample Name: 280-42115-C-2-A Acquired: 5/18/2013 10:40:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.09894** | **.00701** | **.13384** | **.17434** | **-.00009** | **-.00230** | **97.244** | **-.00001** |
| Stddev | .00039 | .00019 | .00305 | .00065 | .00047 | .00004 | .00300 | .039 | .00018 |
| %RSD | 356.35 | .19603 | 43.535 | .48886 | .27044 | 38.739 | 130.38 | .04057 | 1667.3 |
| #1 | -.00017 | .09881 | .00485 | .13430 | .17468 | -.00012 | -.00442 | 97.272 | .00011 |
| #2 | .00038 | .09908 | .00916 | .13338 | .17401 | -.00007 | -.00018 | 97.216 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00025** | **.00346** | **.03706** | **9.3695** | **.05969** | **9.5847** | **.02869** | **.01706** |
| Stddev | .00005 | .00003 | .00033 | .00616 | .0881 | .00237 | .0051 | .00006 | .00001 |
| %RSD | 29.514 | 12.677 | 9.6644 | 16.621 | .94006 | 3.9636 | .05320 | .19377 | .02935 |
| #1 | .00022 | .00022 | .00370 | .03271 | 9.4318 | .06136 | 9.5884 | .02873 | .01706 |
| #2 | .00014 | .00027 | .00323 | .04142 | 9.3072 | .05801 | 9.5811 | .02865 | .01705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **34.079** | **.00175** | **.54580** | **.00360** | **61.132** | **.03308** | **-.00058** | **7.5308** | **.00073** |
| Stddev | .107 | .00037 | .00274 | .00001 | .053 | .00077 | .00179 | .0014 | .00075 |
| %RSD | .31377 | 20.974 | .50256 | .16977 | .08605 | 2.3144 | 306.90 | .01863 | 102.76 |
| #1 | 34.154 | .00149 | .54774 | .00360 | 61.169 | .03254 | -.00185 | 7.5318 | .00020 |
| #2 | 34.003 | .00201 | .54386 | .00361 | 61.095 | .03362 | .00068 | 7.5298 | .00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65415** | **.00252** | **.00105** | **.00150** | **.12409** | **.00628** | **.00454** | **-.00076** |
| Stddev | .00021 | .00063 | .00014 | .00120 | .04380 | .00008 | .00016 | .00293 |
| %RSD | .03169 | 24.975 | 13.250 | 80.305 | 35.300 | 1.3048 | 3.6220 | 384.80 |
| #1 | .65400 | .00297 | .00095 | .00065 | .09311 | .00634 | .00442 | .00131 |
| #2 | .65429 | .00208 | .00114 | .00235 | .15506 | .00623 | .00466 | -.00284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5538.9** | **71057.** | **3086.6** |
| Stddev | 3.1 | 136. | 3.9 |
| %RSD | .05545 | .19164 | .12484 |
| #1 | 5541.0 | 70961. | 3083.9 |
| #2 | 5536.7 | 71153. | 3089.3 |

Sample Name: 280-42115-C-3-A Acquired: 5/18/2013 10:43:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.81649** | **.00221** | **.04138** | **.02399** | **-.00007** | **-.00369** | **20.513** | **.00020** |
| Stddev | .00032 | .00039 | .00077 | .00006 | .00021 | .00009 | .00091 | .100 | .00012 |
| %RSD | 879.56 | .04827 | 34.939 | .15209 | .87838 | 132.96 | 24.562 | .48654 | 57.159 |
| #1 | -.00019 | .81677 | .00166 | .04134 | .02384 | -.00000 | -.00433 | 20.583 | .00029 |
| #2 | .00026 | .81621 | .00275 | .04142 | .02414 | -.00013 | -.00305 | 20.442 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00098** | **.00790** | **.48010** | **9.6324** | **.03617** | **7.6337** | **.02036** | **.01670** |
| Stddev | .00014 | .00020 | .00050 | .00081 | .0158 | .00289 | .0216 | .00002 | .00007 |
| %RSD | 31.688 | 20.693 | 6.3030 | .16880 | .16432 | 8.0018 | .28320 | .09622 | .40449 |
| #1 | .00033 | .00083 | .00825 | .47952 | 9.6436 | .03822 | 7.6185 | .02038 | .01675 |
| #2 | .00052 | .00112 | .00755 | .48067 | 9.6212 | .03413 | 7.6490 | .02035 | .01666 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **35.144** | **.00106** | **1.7422** | **.00253** | **12.186** | **.00119** | **-.00118** | **7.2952** | **.00118** |
| Stddev | .224 | .00016 | .0006 | .00027 | .050 | .00002 | .00205 | .0190 | .00066 |
| %RSD | .63849 | 15.533 | .03494 | 10.588 | .41074 | 2.0963 | 173.36 | .25970 | 55.947 |
| #1 | 35.303 | .00094 | 1.7427 | .00272 | 12.222 | .00117 | .00027 | 7.3086 | .00165 |
| #2 | 34.985 | .00117 | 1.7418 | .00234 | 12.151 | .00121 | -.00263 | 7.2818 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30422** | **-.00038** | **.01243** | **.00022** | **.16669** | **.01523** | **.00775** | **.00083** |
| Stddev | .00084 | .00151 | .00024 | .00013 | .00866 | .00047 | .00017 | .00314 |
| %RSD | .27524 | 402.18 | 1.9086 | 59.204 | 5.1980 | 3.0584 | 2.2446 | 378.20 |
| #1 | .30482 | -.00145 | .01226 | .00031 | .16056 | .01490 | .00763 | .00305 |
| #2 | .30363 | .00069 | .01260 | .00013 | .17282 | .01556 | .00787 | -.00139 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5517.9** | **70605.** | **3073.4** |
| Stddev | 4.2 | 66. | 13.6 |
| %RSD | .07548 | .09392 | .44133 |
| #1 | 5520.8 | 70652. | 3063.8 |
| #2 | 5514.9 | 70558. | 3083.0 |

Sample Name: 280-42115-C-4-A Acquired: 5/18/2013 10:45:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00083** | **.08426** | **.01350** | **.03852** | **.04516** | **-.00019** | **-.00087** | **31.105** | **.00016** |
| Stddev | .00074 | .00007 | .00025 | .00074 | .00002 | .00002 | .00117 | .015 | .00019 |
| %RSD | 89.653 | .08542 | 1.8751 | 1.9240 | .04358 | 8.8504 | 133.91 | .04963 | 120.29 |
| #1 | -.00135 | .08431 | .01332 | .03905 | .04517 | -.00020 | -.00005 | 31.094 | .00029 |
| #2 | -.00030 | .08421 | .01368 | .03800 | .04515 | -.00017 | -.00170 | 31.116 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00021** | **.00456** | **.03988** | **9.3429** | **.02724** | **9.0272** | **.03588** | **.01692** |
| Stddev | .00018 | .00030 | .00028 | .00232 | .0486 | .00119 | .0098 | .00010 | .00033 |
| %RSD | 1500.4 | 140.15 | 6.1383 | 5.8252 | .52027 | 4.3665 | .10808 | .26885 | 1.9507 |
| #1 | -.00012 | .00000 | .00475 | .03824 | 9.3773 | .02808 | 9.0341 | .03595 | .01668 |
| #2 | .00014 | .00042 | .00436 | .04152 | 9.3086 | .02639 | 9.0203 | .03581 | .01715 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.720** | **.00073** | **2.3096** | **.00355** | **9.3147** | **.06434** | **-.00271** | **6.3628** | **.00081** |
| Stddev | .203 | .00013 | .0002 | .00171 | .0080 | .00078 | .00162 | .0104 | .00021 |
| %RSD | .76033 | 17.243 | .00725 | 48.071 | .08567 | 1.2127 | 59.911 | .16335 | 26.499 |
| #1 | 26.864 | .00082 | 2.3095 | .00234 | 9.3091 | .06379 | -.00156 | 6.3554 | .00066 |
| #2 | 26.576 | .00064 | 2.3098 | .00476 | 9.3204 | .06489 | -.00386 | 6.3701 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34085** | **-.00023** | **.00043** | **.00024** | **.16899** | **.01166** | **.01744** | **.00223** |
| Stddev | .00079 | .00094 | .00030 | .00068 | .01721 | .00024 | .00032 | .00256 |
| %RSD | .23255 | 403.76 | 71.033 | 279.67 | 10.183 | 2.0310 | 1.8070 | 114.80 |
| #1 | .34029 | .00043 | .00021 | -.00024 | .18116 | .01183 | .01766 | .00403 |
| #2 | .34141 | -.00090 | .00064 | .00072 | .15682 | .01149 | .01721 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5533.7** | **70600.** | **3057.8** |
| Stddev | 14.7 | 210. | 4.2 |
| %RSD | .26476 | .29693 | .13595 |
| #1 | 5544.1 | 70452. | 3054.9 |
| #2 | 5523.4 | 70748. | 3060.8 |

Sample Name: 280-42115-C-5-A Acquired: 5/18/2013 10:48:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **.02808** | **.00041** | **.71157** | **.05192** | **-.00021** | **-.00327** | **305.03** | **.00012** |
| Stddev | .00085 | .00027 | .00114 | .00073 | .00052 | .00009 | .00168 | .10 | .00010 |
| %RSD | 498.78 | .97117 | 278.74 | .10317 | .99577 | 42.554 | 51.572 | .03155 | 84.538 |
| #1 | .00043 | .02828 | .00122 | .71209 | .05228 | -.00027 | -.00208 | 305.09 | .00005 |
| #2 | -.00077 | .02789 | -.00040 | .71106 | .05155 | -.00015 | -.00446 | 304.96 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00056** | **.00505** | **.02660** | **20.992** | **.14351** | **30.037** | **.03594** | **.02162** |
| Stddev | .00014 | .00022 | .00045 | .00455 | .015 | .00283 | .053 | .00002 | .00025 |
| %RSD | 192.66 | 40.302 | 8.9263 | 17.098 | .07162 | 1.9753 | .17504 | .04732 | 1.1520 |
| #1 | .00003 | .00071 | .00537 | .02338 | 21.003 | .14552 | 30.000 | .03593 | .02179 |
| #2 | -.00018 | .00040 | .00473 | .02981 | 20.981 | .14151 | 30.074 | .03595 | .02144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **67.662** | **.00205** | **.51161** | **.00151** | **208.97** | **.00169** | **.00304** | **10.809** | **.00021** |
| Stddev | .285 | .00006 | .00284 | .00101 | .34 | .00082 | .00036 | .001 | .00093 |
| %RSD | .42067 | 3.0013 | .55510 | 66.498 | .16444 | 48.452 | 11.987 | .00791 | 440.59 |
| #1 | 67.864 | .00209 | .51362 | .00080 | 209.21 | .00226 | .00279 | 10.809 | .00087 |
| #2 | 67.461 | .00200 | .50960 | .00223 | 208.72 | .00111 | .00330 | 10.810 | -.00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8905** | **-.00031** | **.00227** | **.00039** | **.01663** | **.01492** | **.00532** | **.00134** |
| Stddev | .0003 | .00121 | .00002 | .00101 | .03163 | .00086 | .00011 | .00072 |
| %RSD | .01495 | 395.12 | .90503 | 259.13 | 190.24 | 5.7728 | 2.0627 | 53.593 |
| #1 | 1.8907 | -.00116 | .00226 | .00110 | .03899 | .01431 | .00524 | .00083 |
| #2 | 1.8903 | .00055 | .00229 | -.00032 | -.00574 | .01553 | .00540 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5274.8** | **68658.** | **2992.8** |
| Stddev | 20.6 | 892. | 27.7 |
| %RSD | .39059 | 1.2998 | .92634 |
| #1 | 5289.4 | 69289. | 2973.2 |
| #2 | 5260.2 | 68027. | 3012.4 |

Sample Name: 280-42115-C-6-A Acquired: 5/18/2013 10:50:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.05292** | **.01052** | **.14054** | **.14273** | **-.00013** | **-.00285** | **94.743** | **.00032** |
| Stddev | .00082 | .00004 | .00157 | .00048 | .00161 | .00023 | .00290 | .500 | .00003 |
| %RSD | 260.08 | .07277 | 14.916 | .33982 | 1.1259 | 179.22 | 101.67 | .52745 | 10.443 |
| #1 | -.00026 | .05295 | .00941 | .14088 | .14386 | -.00029 | -.00490 | 95.096 | .00030 |
| #2 | .00089 | .05290 | .01162 | .14020 | .14159 | .00003 | -.00080 | 94.390 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00004** | **.00882** | **.01908** | **12.377** | **.03826** | **15.623** | **1.0335** | **.02437** |
| Stddev | .00001 | .00000 | .00014 | .00867 | .003 | .00265 | .000 | .0013 | .00014 |
| %RSD | 11.466 | 6.8373 | 1.5550 | 45.462 | .02343 | 6.9388 | .00016 | .12057 | .58391 |
| #1 | .00008 | .00004 | .00892 | .01295 | 12.379 | .03638 | 15.623 | 1.0326 | .02427 |
| #2 | .00007 | .00005 | .00872 | .02521 | 12.374 | .04013 | 15.623 | 1.0343 | .02447 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.529** | **.00144** | **.92990** | **.00786** | **64.932** | **.04043** | **-.00090** | **6.2556** | **.00080** |
| Stddev | .012 | .00019 | .00238 | .00164 | .075 | .00098 | .00314 | .0135 | .00047 |
| %RSD | .04893 | 13.064 | .25593 | 20.902 | .11597 | 2.4244 | 346.75 | .21607 | 58.911 |
| #1 | 24.521 | .00158 | .92822 | .00670 | 64.985 | .04113 | .00131 | 6.2651 | .00047 |
| #2 | 24.538 | .00131 | .93159 | .00902 | 64.879 | .03974 | -.00312 | 6.2460 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61069** | **.00109** | **.00068** | **-.00082** | **.14929** | **.00091** | **.00670** | **-.00207** |
| Stddev | .00285 | .00086 | .00023 | .00086 | .05136 | .00057 | .00068 | .00310 |
| %RSD | .46730 | 79.083 | 32.984 | 104.52 | 34.404 | 63.078 | 10.149 | 149.72 |
| #1 | .61270 | .00048 | .00084 | -.00143 | .18561 | .00132 | .00718 | .00012 |
| #2 | .60867 | .00169 | .00052 | -.00021 | .11297 | .00050 | .00622 | -.00426 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5349.3** | **68294.** | **2957.3** |
| Stddev | 7.6 | 36. | 19.5 |
| %RSD | .14234 | .05222 | .65845 |
| #1 | 5343.9 | 68320. | 2943.5 |
| #2 | 5354.7 | 68269. | 2971.1 |

Sample Name: 280-42115-C-7-A Acquired: 5/18/2013 10:53:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00089** | **.63380** | **.00731** | **.17093** | **.05727** | **-.00017** | **-.00367** | **99.622** | **.00018** |
| Stddev | .00038 | .00137 | .00110 | .00038 | .00001 | .00012 | .00192 | .030 | .00003 |
| %RSD | 42.083 | .21577 | 15.065 | .22402 | .01933 | 67.214 | 52.285 | .03056 | 18.949 |
| #1 | -.00063 | .63283 | .00653 | .17120 | .05728 | -.00025 | -.00231 | 99.600 | .00020 |
| #2 | -.00116 | .63477 | .00808 | .17066 | .05726 | -.00009 | -.00502 | 99.643 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00132** | **.00483** | **.06405** | **11.107** | **.03396** | **.16488** | **.00224** | **.01923** |
| Stddev | .00004 | .00011 | .00039 | .00024 | .015 | .00028 | .00179 | .00003 | .00010 |
| %RSD | 593.69 | 8.0186 | 8.0330 | .37335 | .13600 | .81805 | 1.0834 | 1.2616 | .50068 |
| #1 | -.00002 | .00140 | .00456 | .06388 | 11.097 | .03376 | .16361 | .00222 | .01930 |
| #2 | .00004 | .00125 | .00510 | .06422 | 11.118 | .03416 | .16614 | .00226 | .01916 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **32.210** | **.00006** | **.31362** | **.00698** | **35.554** | **.00993** | **.00555** | **13.912** | **.00031** |
| Stddev | .008 | .00040 | .00130 | .00163 | .015 | .00025 | .00106 | .001 | .00160 |
| %RSD | .02457 | 681.87 | .41575 | 23.359 | .04358 | 2.5286 | 19.107 | .00497 | 517.44 |
| #1 | 32.205 | -.00022 | .31454 | .00583 | 35.543 | .01011 | .00480 | 13.912 | -.00082 |
| #2 | 32.216 | .00034 | .31269 | .00813 | 35.565 | .00976 | .00630 | 13.913 | .00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47801** | **.00097** | **.00081** | **.00038** | **-.04768** | **.02401** | **.01249** | **-.00003** |
| Stddev | .00058 | .00090 | .00019 | .00042 | .01987 | .00052 | .00036 | .00028 |
| %RSD | .12143 | 92.883 | 23.209 | 109.34 | 41.663 | 2.1657 | 2.9076 | 942.56 |
| #1 | .47760 | .00160 | .00067 | .00009 | -.06173 | .02437 | .01275 | -.00023 |
| #2 | .47842 | .00033 | .00094 | .00068 | -.03363 | .02364 | .01223 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5321.8** | **68048.** | **2889.2** |
| Stddev | 17.1 | 93. | 6.5 |
| %RSD | .32137 | .13609 | .22414 |
| #1 | 5309.8 | 67983. | 2893.8 |
| #2 | 5333.9 | 68114. | 2884.6 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 10:55:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00118** | **49.537** | **-.00232** | **.00417** | **.00077** | **-.00012** | **1.0036** | **.07241** | **-.00065** | **.00174** | **-.00024** | **.00160** | **49.152** |
| Stddev | .00007 | .011 | .00024 | .00108 | .00038 | .00004 | .0020 | .00469 | .00021 | .00010 | .00006 | .00038 | .011 |
| %RSD | 5.5935 | .02251 | 10.458 | 25.920 | 49.004 | 31.355 | .20146 | 6.4808 | 32.801 | 5.5116 | 24.212 | 23.575 | .02334 |
| #1 | -.00123 | 49.529 | -.00215 | .00341 | .00050 | -.00010 | 1.0050 | .07573 | -.00050 | .00181 | -.00028 | .00187 | 49.144 |
| #2 | -.00113 | 49.545 | -.00249 | .00493 | .00103 | -.00015 | 1.0022 | .06909 | -.00080 | .00167 | -.00020 | .00134 | 49.160 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08614** | **.00063** | **.01352** | **.00013** | **-.00176** | **249.99** | **.00081** | **.00839** | **-.00057** | **5.0641** | **.00001** | **.00791** | **.03889** |
| Stddev | .04389 | .00038 | .00359 | .00004 | .00000 | .28 | .00006 | .00022 | .00203 | .0001 | .00019 | .00351 | .00277 |
| %RSD | 50.948 | 60.368 | 26.553 | 30.845 | .13855 | .11241 | 7.3832 | 2.5999 | 355.42 | .00171 | 2574.8 | 44.364 | 7.1213 |
| #1 | .11717 | .00036 | .01606 | .00010 | -.00176 | 250.19 | .00085 | .00855 | -.00200 | 5.0640 | .00014 | .00543 | .03693 |
| #2 | .05511 | .00089 | .01098 | .00016 | -.00175 | 249.79 | .00076 | .00824 | .00086 | 5.0641 | -.00013 | .01039 | .04085 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00165** | **.00103** | **4.9348** | **.00374** | **-.00335** | **10.012** | **-.00003** | **.00304** | **-.02267** |
| Stddev | .00149 | .00018 | .0112 | .00057 | .00025 | .027 | .00060 | .00005 | .00006 |
| %RSD | 90.142 | 17.131 | .22731 | 15.321 | 7.4758 | .26550 | 2156.9 | 1.6154 | .27834 |
| #1 | .00270 | .00115 | 4.9427 | .00414 | -.00317 | 10.031 | .00040 | .00301 | -.02263 |
| #2 | .00060 | .00090 | 4.9269 | .00333 | -.00352 | 9.9932 | -.00045 | .00308 | -.02272 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5256.8** | **66934.** | **2912.0** |
| Stddev | 11.1 | 42. | 7.0 |
| %RSD | .21142 | .06215 | .23899 |
| #1 | 5249.0 | 66964. | 2916.9 |
| #2 | 5264.7 | 66905. | 2907.0 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 10:57:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49811** | **.51321** | **.99973** | **.50208** | **.50129** | **.49959** | **.00325** | **5.0912** | **.50046** | **.50541** | **.50366** | **.50055** | **2.5201** |
| Stddev | .00138 | .00051 | .00011 | .00009 | .00446 | .00443 | .00245 | .0027 | .00010 | .00064 | .00113 | .00067 | .0213 |
| %RSD | .27795 | .09878 | .01134 | .01792 | .88991 | .88685 | 75.285 | .05224 | .01956 | .12691 | .22438 | .13415 | .84365 |
| #1 | .49909 | .51285 | .99965 | .50202 | .50445 | .50273 | .00152 | 5.0931 | .50053 | .50586 | .50446 | .50102 | 2.5352 |
| #2 | .49713 | .51357 | .99981 | .50214 | .49814 | .49646 | .00498 | 5.0894 | .50040 | .50495 | .50286 | .50007 | 2.5051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.987** | **1.0254** | **20.081** | **.50102** | **.50390** | **5.1838** | **.50937** | **.99843** | **1.0094** | **.03991** | **.99997** | **.99367** | **5.0307** |
| Stddev | .463 | .0074 | .004 | .00039 | .00188 | .0707 | .00120 | .00010 | .0017 | .00035 | .00095 | .00087 | .0590 |
| %RSD | .90890 | .72438 | .01857 | .07804 | .37327 | 1.3635 | .23630 | .01025 | .16387 | .88582 | .09468 | .08746 | 1.1728 |
| #1 | 51.315 | 1.0307 | 20.083 | .50130 | .50523 | 5.2338 | .51022 | .99850 | 1.0105 | .03966 | .99930 | .99428 | 5.0724 |
| #2 | 50.660 | 1.0202 | 20.078 | .50075 | .50257 | 5.1339 | .50851 | .99836 | 1.0082 | .04016 | 1.0006 | .99305 | 4.9889 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0064** | **.50185** | **.00056** | **.49989** | **1.0074** | **-.04169** | **.50015** | **.50577** | **.49859** |
| Stddev | .0006 | .00334 | .00059 | .00031 | .0020 | .02728 | .00039 | .00365 | .00650 |
| %RSD | .05418 | .66536 | 104.78 | .06287 | .19978 | 65.443 | .07725 | .72223 | 1.3046 |
| #1 | 1.0060 | .50422 | .00098 | .50011 | 1.0059 | -.02240 | .50042 | .50835 | .49399 |
| #2 | 1.0068 | .49949 | .00015 | .49967 | 1.0088 | -.06098 | .49988 | .50318 | .50319 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5367.6** | **67600.** | **2873.9** |
| Stddev | 6.5 | 1. | 34.1 |
| %RSD | .12125 | .00175 | 1.1866 |
| #1 | 5363.0 | 67601. | 2849.8 |
| #2 | 5372.2 | 67600. | 2898.0 |

Sample Name: CCB Acquired: 5/18/2013 11:00:03 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.00624** | **-.00080** | F **.00379** | F **.00121** | **.00005** | **-.00030** | W **.03765** | **.00011** | **.00024** | **-.00021** |
| Stddev | .00052 | .00023 | .00164 | .00029 | .00057 | .00021 | .00298 | .00365 | .00013 | .00034 | .00031 |
| %RSD | 175.21 | 3.7084 | 206.59 | 7.7099 | 47.072 | 405.29 | 981.88 | 9.6898 | 121.23 | 142.57 | 148.66 |
| #1 | -.00067 | .00640 | -.00196 | .00358 | .00081 | -.00010 | -.00241 | .04023 | .00002 | -.00000 | .00001 |
| #2 | .00007 | .00608 | .00037 | .00400 | .00161 | .00020 | .00180 | .03507 | .00020 | .00048 | -.00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00115 | | | .03450 | | | |
| Low Limit | | | | -.00312 | -.00115 | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00517** | **.15714** | **.00087** | **.00787** | **.00013** | **.00019** | W **.09189** | **-.00064** | **.00271** | **.00090** |
| Stddev | .00031 | .00450 | .06088 | .00115 | .00241 | .00009 | .00001 | .00267 | .00002 | .00379 | .00023 |
| %RSD | 91.921 | 86.893 | 38.744 | 132.08 | 30.644 | 66.351 | 7.6438 | 2.9031 | 3.2973 | 139.79 | 25.102 |
| #1 | .00056 | .00199 | .11409 | .00169 | .00957 | .00019 | .00018 | .09378 | -.00066 | .00539 | .00074 |
| #2 | .00012 | .00835 | .20020 | .00006 | .00616 | .00007 | .00020 | .09000 | -.00063 | .00003 | .00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .09160 | | | |
| Low Limit | | | | | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02895** | **.00086** | **-.00084** | **.00449** | **.00139** | W **.00043** | **.00032** | **-.00001** | **.00111** | **-.02730** | **.00046** |
| Stddev | .00024 | .00206 | .00072 | .01295 | .00034 | .00006 | .00005 | .00008 | .00114 | .01380 | .00073 |
| %RSD | .81573 | 240.38 | 85.456 | 288.21 | 24.087 | 12.912 | 15.476 | 1447.0 | 102.78 | 50.561 | 156.63 |
| #1 | .02912 | -.00060 | -.00136 | -.00466 | .00163 | .00039 | .00028 | .00005 | .00030 | -.03705 | -.00005 |
| #2 | .02878 | .00231 | -.00033 | .01365 | .00115 | .00047 | .00035 | -.00006 | .00191 | -.01754 | .00098 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00030 | | | | | |
| Low Limit | | | | | | -.00030 | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00264** | **.00187** |
| Stddev | .00014 | .00112 |
| %RSD | 5.1510 | 59.862 |
| #1 | .00254 | .00266 |
| #2 | .00274 | .00108 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5363.5** | **67734.** | **2874.9** |
| Stddev | 17.8 | 17. | 3.4 |
| %RSD | .33244 | .02576 | .11821 |
| #1 | 5350.9 | 67721. | 2877.3 |
| #2 | 5376.1 | 67746. | 2872.5 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 11:02:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00974** | **.10888** | **.01459** | **.10288** | **.01068** | **.00098** | **.10160** | W **.24397** | **.00530** | **.01034** | **.01026** |
| Stddev | .00057 | .00040 | .00236 | .00031 | .00016 | .00001 | .00089 | .00220 | .00006 | .00010 | .00007 |
| %RSD | 5.9037 | .36337 | 16.183 | .30098 | 1.4717 | .88401 | .87744 | .90017 | 1.1258 | 1.0106 | .67667 |
| #1 | .00933 | .10860 | .01626 | .10266 | .01057 | .00098 | .10097 | .24552 | .00525 | .01027 | .01021 |
| #2 | .01015 | .10916 | .01292 | .10310 | .01079 | .00097 | .10223 | .24241 | .00534 | .01042 | .01030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .20000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01607** | **.10707** | **3.2107** | **.00921** | **.21482** | **.01051** | **.02034** | **1.1090** | **.04133** | **2.9485** | **.01037** |
| Stddev | .00004 | .00578 | .0245 | .00326 | .00272 | .00003 | .00011 | .0052 | .00000 | .0041 | .00092 |
| %RSD | .27947 | 5.3952 | .76468 | 35.385 | 1.2642 | .26881 | .55079 | .47066 | .00038 | .13999 | 8.8493 |
| #1 | .01604 | .10299 | 3.2280 | .01152 | .21674 | .01049 | .02042 | 1.1127 | .04133 | 2.9514 | .00972 |
| #2 | .01610 | .11116 | 3.1933 | .00691 | .21290 | .01053 | .02026 | 1.1053 | .04133 | 2.9456 | .01101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02247** | **.00915** | **.01490** | **.50634** | **.10203** | **.01063** | **.01592** | **.01031** | **.01577** | F **.03112** | **.01047** |
| Stddev | .00409 | .00052 | .00189 | .00356 | .00009 | .00001 | .00001 | .00019 | .00279 | .01181 | .00048 |
| %RSD | 18.205 | 5.6497 | 12.708 | .70317 | .08655 | .07510 | .03868 | 1.8326 | 17.683 | 37.944 | 4.5529 |
| #1 | .02536 | .00878 | .01624 | .50382 | .10209 | .01062 | .01591 | .01017 | .01774 | .02277 | .01013 |
| #2 | .01957 | .00951 | .01356 | .50885 | .10197 | .01064 | .01592 | .01044 | .01380 | .03947 | .01080 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02344** | **.01549** |
| Stddev | .00047 | .00375 |
| %RSD | 1.9965 | 24.216 |
| #1 | .02311 | .01284 |
| #2 | .02377 | .01815 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5412.9** | **67804.** | **2926.8** |
| Stddev | 13.0 | 173. | 13.2 |
| %RSD | .23998 | .25548 | .45073 |
| #1 | 5422.1 | 67681. | 2936.1 |
| #2 | 5403.8 | 67926. | 2917.4 |

Sample Name: 280-42115-C-8-A Acquired: 5/18/2013 11:04:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.07107** | **.00844** | **.06671** | **.01994** | **-.00016** | **-.00227** | **29.769** | **.00010** |
| Stddev | .00014 | .00037 | .00017 | .00084 | .00038 | .00002 | .00079 | .053 | .00021 |
| %RSD | 27.670 | .51985 | 2.0706 | 1.2556 | 1.9086 | 10.261 | 34.970 | .17887 | 218.81 |
| #1 | -.00041 | .07081 | .00856 | .06612 | .01967 | -.00015 | -.00283 | 29.731 | -.00005 |
| #2 | -.00061 | .07133 | .00831 | .06730 | .02021 | -.00017 | -.00171 | 29.807 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00002** | **.00719** | **.01266** | **13.929** | **.03132** | **10.475** | **.02815** | **.02221** |
| Stddev | .00020 | .00002 | .00004 | .00377 | .027 | .00014 | .018 | .00002 | .00007 |
| %RSD | 189.10 | 123.65 | .50129 | 29.789 | .19048 | .45712 | .17145 | .08276 | .32392 |
| #1 | .00024 | .00003 | .00717 | .00999 | 13.910 | .03122 | 10.488 | .02813 | .02216 |
| #2 | -.00004 | .00000 | .00722 | .01532 | 13.948 | .03143 | 10.463 | .02817 | .02226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **30.347** | **.00078** | **2.4171** | **.00063** | **17.129** | **.00960** | **.00379** | **6.6532** | **.00101** |
| Stddev | .149 | .00005 | .0063 | .00014 | .038 | .00217 | .00449 | .0037 | .00006 |
| %RSD | .49190 | 6.9002 | .26037 | 22.535 | .22323 | 22.561 | 118.49 | .05490 | 5.5968 |
| #1 | 30.453 | .00082 | 2.4127 | .00053 | 17.102 | .00807 | .00696 | 6.6507 | .00097 |
| #2 | 30.242 | .00074 | 2.4216 | .00073 | 17.156 | .01114 | .00061 | 6.6558 | .00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31868** | **.00176** | **.00017** | **.00035** | **.16591** | **.00463** | **.00579** | **-.00323** |
| Stddev | .00118 | .00228 | .00017 | .00006 | .03649 | .00019 | .00016 | .00335 |
| %RSD | .37040 | 129.98 | 101.13 | 18.545 | 21.996 | 4.0108 | 2.8363 | 103.76 |
| #1 | .31785 | .00337 | .00005 | .00039 | .14011 | .00450 | .00591 | -.00086 |
| #2 | .31951 | .00014 | .00029 | .00030 | .19171 | .00476 | .00568 | -.00559 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5378.1** | **68038.** | **2928.6** |
| Stddev | 1.6 | 33. | 7.1 |
| %RSD | .03028 | .04836 | .24173 |
| #1 | 5379.2 | 68015. | 2933.6 |
| #2 | 5376.9 | 68062. | 2923.6 |

Sample Name: 280-42115-C-9-A Acquired: 5/18/2013 11:07:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.09311** | **.00404** | **.15452** | **.04291** | **-.00008** | **-.00316** | **100.53** | **.00008** |
| Stddev | .00022 | .00065 | .00318 | .00063 | .00023 | .00008 | .00054 | .10 | .00023 |
| %RSD | 203.39 | .69400 | 78.660 | .40770 | .53273 | 102.37 | 17.012 | .10101 | 285.11 |
| #1 | .00005 | .09357 | .00628 | .15408 | .04275 | -.00002 | -.00354 | 100.60 | .00025 |
| #2 | -.00026 | .09266 | .00179 | .15497 | .04307 | -.00013 | -.00278 | 100.46 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00012** | **.00543** | **.01939** | **21.302** | **.05008** | **15.432** | **.63345** | **.01809** |
| Stddev | .00008 | .00009 | .00070 | .00039 | .002 | .00101 | .009 | .00037 | .00017 |
| %RSD | 201.06 | 77.706 | 12.863 | 2.0366 | .00730 | 2.0081 | .05894 | .05918 | .92417 |
| #1 | -.00010 | .00019 | .00592 | .01967 | 21.301 | .05079 | 15.426 | .63319 | .01820 |
| #2 | .00002 | .00005 | .00493 | .01911 | 21.303 | .04937 | 15.439 | .63372 | .01797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.867** | **.00092** | **.88680** | **.00191** | **76.511** | **.01046** | **.00045** | **5.4362** | **.00073** |
| Stddev | .462 | .00053 | .00603 | .00069 | .024 | .00028 | .00570 | .0328 | .00020 |
| %RSD | 1.5459 | 57.895 | .68043 | 36.183 | .03148 | 2.6581 | 1271.3 | .60303 | 26.781 |
| #1 | 30.193 | .00054 | .89107 | .00240 | 76.528 | .01066 | -.00358 | 5.4130 | .00060 |
| #2 | 29.540 | .00130 | .88254 | .00142 | 76.494 | .01027 | .00448 | 5.4594 | .00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.66198** | **-.00231** | **.00075** | **.00039** | **.17137** | **.00571** | **.00492** | **.00230** |
| Stddev | .00133 | .00050 | .00010 | .00186 | .00789 | .00053 | .00006 | .00113 |
| %RSD | .20156 | 21.785 | 13.748 | 474.95 | 4.6044 | 9.3205 | 1.2760 | 49.078 |
| #1 | .66104 | -.00195 | .00082 | -.00092 | .16579 | .00609 | .00487 | .00310 |
| #2 | .66293 | -.00266 | .00067 | .00170 | .17695 | .00533 | .00496 | .00150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5301.4** | **67889.** | **2911.8** |
| Stddev | 5.8 | 88. | 1.0 |
| %RSD | .10998 | .12912 | .03522 |
| #1 | 5305.5 | 67951. | 2911.1 |
| #2 | 5297.3 | 67827. | 2912.5 |

Sample Name: 280-42115-C-10-A  Acquired: 5/18/2013 11:09:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.17712** | **.00940** | **.06181** | **.02686** | **-.00004** | **-.00043** | **44.154** | **.00017** |
| Stddev | .00050 | .00059 | .00168 | .00091 | .00050 | .00011 | .00080 | .034 | .00002 |
| %RSD | 114.68 | .33257 | 17.886 | 1.4777 | 1.8615 | 254.02 | 185.66 | .07656 | 10.844 |
| #1 | -.00008 | .17754 | .00821 | .06117 | .02650 | .00003 | -.00100 | 44.130 | .00016 |
| #2 | -.00079 | .17670 | .01059 | .06246 | .02721 | -.00012 | .00014 | 44.178 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00011** | **.00614** | **.11656** | **11.906** | **.02093** | **9.6906** | **.02407** | **.01507** |
| Stddev | .00026 | .00010 | .00048 | .00735 | .097 | .00119 | .0205 | .00003 | .00008 |
| %RSD | 595.74 | 91.449 | 7.8978 | 6.3088 | .81776 | 5.6745 | .21154 | .13256 | .53533 |
| #1 | -.00014 | .00004 | .00580 | .11136 | 11.837 | .02177 | 9.7051 | .02409 | .01513 |
| #2 | .00023 | .00018 | .00648 | .12176 | 11.975 | .02009 | 9.6761 | .02405 | .01502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.498** | **.00044** | **1.3663** | **.00489** | **23.492** | **.00756** | **.00337** | **6.7596** | **.00080** |
| Stddev | .282 | .00025 | .0030 | .00018 | .022 | .00110 | .00093 | .0481 | .00047 |
| %RSD | 1.1492 | 57.337 | .21880 | 3.7339 | .09368 | 14.514 | 27.502 | .71156 | 58.850 |
| #1 | 24.697 | .00062 | 1.3684 | .00502 | 23.508 | .00679 | .00402 | 6.7936 | .00047 |
| #2 | 24.299 | .00026 | 1.3642 | .00477 | 23.477 | .00834 | .00271 | 6.7256 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44106** | **-.00032** | **.00228** | **-.00019** | **.16304** | **.01628** | **.01570** | **-.00308** |
| Stddev | .00009 | .00059 | .00023 | .00029 | .00650 | .00082 | .00005 | .00111 |
| %RSD | .02071 | 181.35 | 10.072 | 146.91 | 3.9844 | 5.0055 | .29422 | 36.073 |
| #1 | .44113 | .00009 | .00211 | .00001 | .16764 | .01686 | .01573 | -.00230 |
| #2 | .44100 | -.00074 | .00244 | -.00040 | .15845 | .01571 | .01567 | -.00387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5378.1** | **68060.** | **2914.2** |
| Stddev | 14.6 | 184. | 17.0 |
| %RSD | .27154 | .27098 | .58406 |
| #1 | 5388.4 | 67930. | 2902.2 |
| #2 | 5367.8 | 68190. | 2926.3 |

Sample Name: 280-42115-C-11-A Acquired: 5/18/2013 11:12:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | **.09688** | **.01523** | **.05733** | **.02208** | **.00111** | **-.00303** | **40.559** | **.00136** |
| Stddev | .00038 | .00065 | .00138 | .00038 | .00002 | .00023 | .00092 | .105 | .00016 |
| %RSD | 34.748 | .67216 | 9.0686 | .65467 | .09481 | 20.373 | 30.216 | .25940 | 11.928 |
| #1 | .00138 | .09734 | .01620 | .05759 | .02206 | .00126 | -.00238 | 40.484 | .00125 |
| #2 | .00084 | .09642 | .01425 | .05706 | .02209 | .00095 | -.00368 | 40.633 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **.00131** | **.00577** | **.02695** | **11.020** | **.02299** | **9.1609** | **.01899** | **.01543** |
| Stddev | .00007 | .00000 | .00050 | .00616 | .043 | .00216 | .0085 | .00007 | .00012 |
| %RSD | 5.7628 | .03607 | 8.6266 | 22.849 | .38627 | 9.4168 | .09298 | .36375 | .77741 |
| #1 | .00116 | .00131 | .00542 | .03130 | 10.990 | .02452 | 9.1669 | .01904 | .01552 |
| #2 | .00126 | .00131 | .00612 | .02260 | 11.050 | .02146 | 9.1549 | .01894 | .01535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.843** | **.00118** | **1.3654** | **.00439** | **19.590** | **.00841** | **.00135** | **6.7834** | **.00312** |
| Stddev | .145 | .00012 | .0009 | .00025 | .020 | .00078 | .00280 | .0323 | .00010 |
| %RSD | .63290 | 10.163 | .06593 | 5.6400 | .09982 | 9.2609 | 206.36 | .47650 | 3.0525 |
| #1 | 22.945 | .00110 | 1.3647 | .00456 | 19.604 | .00786 | .00333 | 6.7605 | .00305 |
| #2 | 22.741 | .00127 | 1.3660 | .00421 | 19.576 | .00896 | -.00062 | 6.8062 | .00318 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41962** | **-.00158** | **.00142** | **.00329** | **.17831** | **.01927** | **.00712** | **-.00110** |
| Stddev | .00189 | .00035 | .00014 | .00178 | .00649 | .00070 | .00022 | .00038 |
| %RSD | .45149 | 22.391 | 10.072 | 54.076 | 3.6414 | 3.6275 | 3.0710 | 34.624 |
| #1 | .41828 | -.00183 | .00132 | .00203 | .18290 | .01977 | .00727 | -.00083 |
| #2 | .42096 | -.00133 | .00152 | .00455 | .17372 | .01878 | .00696 | -.00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5381.2** | **67912.** | **2893.8** |
| Stddev | 3.4 | 376. | 1.4 |
| %RSD | .06330 | .55381 | .04799 |
| #1 | 5383.6 | 67646. | 2892.9 |
| #2 | 5378.8 | 68178. | 2894.8 |

Sample Name: 280-42115-C-12-A  Acquired: 5/18/2013 11:14:38  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.17403** | **.00355** | **.01044** | **.05489** | **.00003** | **-.00033** | **21.441** | **.00002** |
| Stddev | .00051 | .00018 | .00004 | .00016 | .00011 | .00005 | .00008 | .091 | .00005 |
| %RSD | 170.71 | .10610 | 1.1405 | 1.5227 | .20273 | 144.93 | 24.774 | .42594 | 259.42 |
| #1 | -.00066 | .17416 | .00352 | .01033 | .05497 | -.00000 | -.00027 | 21.377 | -.00002 |
| #2 | .00006 | .17390 | .00358 | .01055 | .05481 | .00007 | -.00039 | 21.506 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00019** | **.00501** | **.06518** | **7.4077** | **.00498** | **4.2701** | **.00867** | **.01252** |
| Stddev | .00005 | .00013 | .00037 | .00270 | .0341 | .00086 | .0032 | .00003 | .00007 |
| %RSD | 88.255 | 71.768 | 7.3718 | 4.1356 | .46019 | 17.257 | .07611 | .28988 | .54223 |
| #1 | -.00009 | .00009 | .00527 | .06708 | 7.4318 | .00437 | 4.2724 | .00865 | .01248 |
| #2 | -.00002 | .00028 | .00475 | .06327 | 7.3836 | .00558 | 4.2678 | .00868 | .01257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.523** | **.00035** | **.26309** | **.00078** | **3.2179** | **.00080** | **.00077** | **6.1974** | **.00024** |
| Stddev | .084 | .00018 | .00295 | .00038 | .0025 | .00266 | .00045 | .0149 | .00097 |
| %RSD | .67294 | 51.922 | 1.1212 | 48.135 | .07685 | 332.73 | 58.284 | .24095 | 404.08 |
| #1 | 12.582 | .00022 | .26101 | .00105 | 3.2161 | -.00108 | .00109 | 6.1868 | -.00045 |
| #2 | 12.463 | .00048 | .26518 | .00052 | 3.2196 | .00268 | .00045 | 6.2079 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28770** | **.00017** | **.00117** | **.00105** | **.18288** | **.01105** | **.00564** | **.00060** |
| Stddev | .00099 | .00055 | .00002 | .00039 | .03562 | .00016 | .00036 | .00115 |
| %RSD | .34377 | 315.66 | 1.2958 | 36.765 | 19.477 | 1.4423 | 6.3742 | 193.85 |
| #1 | .28700 | -.00021 | .00118 | .00078 | .15769 | .01117 | .00589 | -.00022 |
| #2 | .28840 | .00056 | .00116 | .00133 | .20806 | .01094 | .00539 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5405.5** | **68206.** | **2948.8** |
| Stddev | 13.2 | 16. | .8 |
| %RSD | .24348 | .02339 | .02606 |
| #1 | 5414.8 | 68194. | 2948.2 |
| #2 | 5396.2 | 68217. | 2949.3 |

Sample Name: 280-42115-C-13-A  Acquired: 5/18/2013 11:17:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00104** | **.23777** | **.00327** | **.01089** | **.03934** | **-.00004** | **-.00175** | **21.623** | **.00003** |
| Stddev | .00012 | .00054 | .00094 | .00021 | .00030 | .00004 | .00263 | .027 | .00001 |
| %RSD | 11.807 | .22575 | 28.592 | 1.9344 | .76445 | 98.728 | 150.17 | .12436 | 37.850 |
| #1 | -.00112 | .23815 | .00261 | .01074 | .03913 | -.00001 | -.00361 | 21.604 | .00002 |
| #2 | -.00095 | .23739 | .00394 | .01104 | .03956 | -.00007 | .00011 | 21.643 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **-.00013** | **.00357** | **.07188** | **7.6360** | **.00543** | **4.5488** | **.00791** | **.01182** |
| Stddev | .00005 | .00004 | .00028 | .00057 | .0253 | .00039 | .0090 | .00005 | .00026 |
| %RSD | 151.61 | 30.746 | 7.8946 | .79619 | .33107 | 7.1400 | .19843 | .57911 | 2.2184 |
| #1 | .00000 | -.00010 | .00337 | .07228 | 7.6182 | .00516 | 4.5424 | .00794 | .01164 |
| #2 | -.00008 | -.00015 | .00377 | .07147 | 7.6539 | .00571 | 4.5552 | .00788 | .01201 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.876** | **-.00037** | **.28989** | **.00203** | **3.4422** | **-.00008** | **.00065** | **5.9932** | **.00063** |
| Stddev | .019 | .00015 | .00054 | .00296 | .0030 | .00124 | .00059 | .0029 | .00012 |
| %RSD | .13366 | 41.237 | .18620 | 145.97 | .08745 | 1538.6 | 90.807 | .04754 | 18.695 |
| #1 | 13.863 | -.00026 | .28951 | -.00007 | 3.4400 | -.00096 | .00023 | 5.9912 | .00072 |
| #2 | 13.889 | -.00047 | .29027 | .00412 | 3.4443 | .00080 | .00107 | 5.9952 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28865** | **.00078** | **.00136** | **-.00042** | **.16468** | **.01268** | **.00569** | **-.00186** |
| Stddev | .00101 | .00025 | .00017 | .00046 | .05960 | .00148 | .00021 | .00269 |
| %RSD | .35020 | 31.982 | 12.678 | 109.72 | 36.190 | 11.650 | 3.7148 | 144.72 |
| #1 | .28794 | .00060 | .00148 | -.00009 | .12254 | .01372 | .00554 | .00004 |
| #2 | .28937 | .00095 | .00124 | -.00074 | .20683 | .01163 | .00584 | -.00377 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5329.7** | **67941.** | **2887.4** |
| Stddev | .1 | 9. | 10.5 |
| %RSD | .00141 | .01280 | .36432 |
| #1 | 5329.7 | 67947. | 2894.9 |
| #2 | 5329.8 | 67935. | 2880.0 |

Sample Name: 280-42115-C-14-A  Acquired: 5/18/2013 11:19:31  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **.00826** | **-.00063** | **.00280** | **.00113** | **.00004** | **.00086** | **.11406** | **.00010** |
| Stddev | .00038 | .00017 | .00072 | .00015 | .00057 | .00023 | .00168 | .00257 | .00002 |
| %RSD | 61.753 | 2.0744 | 113.65 | 5.4820 | 50.864 | 574.84 | 195.35 | 2.2495 | 19.051 |
| #1 | -.00035 | .00814 | -.00114 | .00269 | .00154 | .00020 | .00205 | .11587 | .00009 |
| #2 | -.00088 | .00838 | -.00012 | .00291 | .00072 | -.00012 | -.00033 | .11224 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.00004** | **.00681** | **.01788** | **.09920** | **-.00048** | **.01975** | **.00034** | **.00015** |
| Stddev | .00001 | .00004 | .00003 | .00358 | .02806 | .00004 | .00200 | .00001 | .00009 |
| %RSD | 6.3606 | 96.104 | .45661 | 20.043 | 28.288 | 7.9430 | 10.123 | 3.1342 | 62.360 |
| #1 | -.00021 | .00006 | .00678 | .01534 | .11904 | -.00046 | .02117 | .00033 | .00008 |
| #2 | -.00023 | .00001 | .00683 | .02041 | .07936 | -.00051 | .01834 | .00035 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03906** | **-.00008** | **.24708** | **.00034** | **.55522** | **-.00050** | **-.00067** | **.05081** | **.00096** |
| Stddev | .02062 | .00009 | .00106 | .00011 | .00200 | .00010 | .00041 | .02235 | .00068 |
| %RSD | 52.789 | 109.27 | .42719 | 31.141 | .36103 | 20.275 | 60.899 | 43.992 | 70.660 |
| #1 | .05363 | -.00002 | .24782 | .00026 | .55664 | -.00057 | -.00096 | .06662 | .00048 |
| #2 | .02448 | -.00014 | .24633 | .00041 | .55381 | -.00043 | -.00038 | .03500 | .00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **.00187** | **.00006** | **-.00074** | **-.01677** | **.00033** | **.00865** | **-.00238** |
| Stddev | .00024 | .00091 | .00011 | .00092 | .01419 | .00005 | .00026 | .00208 |
| %RSD | 30.615 | 48.684 | 173.73 | 123.92 | 84.594 | 15.064 | 3.0600 | 87.389 |
| #1 | .00095 | .00251 | .00014 | -.00139 | -.02681 | .00036 | .00884 | -.00091 |
| #2 | .00061 | .00123 | -.00001 | -.00009 | -.00674 | .00029 | .00847 | -.00386 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5446.0** | **68504.** | **2902.1** |
| Stddev | 15.7 | 215. | 19.7 |
| %RSD | .28832 | .31313 | .67950 |
| #1 | 5434.9 | 68352. | 2916.0 |
| #2 | 5457.1 | 68655. | 2888.1 |

Sample Name: sd 42115-C-14-A@5 Acquired: 5/18/2013 11:22:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00486** | **-.00049** | **.00184** | **.00043** | **-.00007** | **.00203** | **.05246** | **.00015** |
| Stddev | .00085 | .00023 | .00117 | .00056 | .00031 | .00004 | .00485 | .00236 | .00008 |
| %RSD | 645.48 | 4.6911 | 237.35 | 30.144 | 71.061 | 54.188 | 238.28 | 4.4939 | 51.931 |
| #1 | -.00047 | .00470 | .00034 | .00223 | .00065 | -.00010 | -.00139 | .05413 | .00009 |
| #2 | .00073 | .00502 | -.00132 | .00145 | .00021 | -.00005 | .00546 | .05079 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **-.00015** | **.00201** | **.01065** | **.06362** | **.00051** | **.00649** | **.00019** | **-.00003** |
| Stddev | .00006 | .00016 | .00030 | .00581 | .05120 | .00042 | .00356 | .00001 | .00017 |
| %RSD | 1031.1 | 106.74 | 14.878 | 54.578 | 80.485 | 82.159 | 54.835 | 6.9187 | 510.43 |
| #1 | -.00004 | -.00004 | .00180 | .00654 | .09982 | .00021 | .00397 | .00020 | -.00015 |
| #2 | .00005 | -.00027 | .00222 | .01477 | .02741 | .00080 | .00900 | .00018 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02450** | **-.00011** | **.05085** | **.00195** | **.12830** | **-.00031** | **-.00216** | **.01461** | **.00052** |
| Stddev | .00114 | .00022 | .00042 | .00142 | .00328 | .00045 | .00278 | .03236 | .00052 |
| %RSD | 4.6568 | 206.77 | .83031 | 72.839 | 2.5591 | 145.45 | 128.30 | 221.45 | 100.59 |
| #1 | .02531 | .00005 | .05055 | .00094 | .13062 | -.00063 | -.00020 | -.00827 | .00015 |
| #2 | .02369 | -.00026 | .05114 | .00295 | .12598 | .00001 | -.00413 | .03750 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **-.00143** | **.00042** | **.00019** | **.03299** | **.00029** | **.00511** | **-.00093** |
| Stddev | .00016 | .00026 | .00010 | .00107 | .00914 | .00008 | .00037 | .00212 |
| %RSD | 56.592 | 17.860 | 24.578 | 570.94 | 27.706 | 26.977 | 7.2427 | 227.83 |
| #1 | .00040 | -.00125 | .00035 | .00095 | .03945 | .00035 | .00485 | .00057 |
| #2 | .00017 | -.00161 | .00049 | -.00057 | .02652 | .00024 | .00537 | -.00243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5415.8** | **68496.** | **2890.6** |
| Stddev | 3.9 | 99. | 4.0 |
| %RSD | .07133 | .14510 | .13806 |
| #1 | 5418.6 | 68425. | 2893.4 |
| #2 | 5413.1 | 68566. | 2887.8 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 11:24:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **49.533** | **-.00411** | **.00284** | **.00066** | **.00004** | **1.0016** | **.02004** | **-.00057** | **.00163** | **.00000** | **.00241** | **49.666** |
| Stddev | .00033 | .124 | .00232 | .00010 | .00003 | .00005 | .0058 | .00004 | .00009 | .00007 | .00023 | .00101 | .014 |
| %RSD | 223.68 | .24943 | 56.481 | 3.5358 | 5.1279 | 123.67 | .57962 | .21643 | 16.308 | 4.5346 | 4843.2 | 41.829 | .02783 |
| #1 | .00038 | 49.446 | -.00575 | .00277 | .00064 | .00000 | 1.0058 | .02001 | -.00064 | .00168 | .00017 | .00312 | 49.656 |
| #2 | -.00009 | 49.621 | -.00247 | .00291 | .00069 | .00007 | .99754 | .02007 | -.00051 | .00157 | -.00016 | .00170 | 49.676 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15240** | **.00213** | **.00731** | **.00002** | **-.00194** | **251.29** | **.00103** | **.00773** | **.00096** | **5.0178** | **.00055** | **.00265** | **.01333** |
| Stddev | .06884 | .00011 | .00436 | .00009 | .00055 | 1.01 | .00014 | .00030 | .00019 | .0435 | .00052 | .00558 | .00917 |
| %RSD | 45.171 | 5.3724 | 59.731 | 381.22 | 28.448 | .40226 | 14.024 | 3.9011 | 19.608 | .86727 | 94.075 | 210.20 | 68.799 |
| #1 | .10372 | .00205 | .01039 | .00009 | -.00155 | 250.57 | .00093 | .00794 | .00109 | 5.0485 | .00091 | -.00129 | .01981 |
| #2 | .20108 | .00221 | .00422 | -.00004 | -.00233 | 252.00 | .00113 | .00752 | .00082 | 4.9870 | .00018 | .00660 | .00684 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **.00058** | **4.9311** | **.00301** | **-.00230** | **9.9941** | **-.00010** | **.00295** | **-.02498** |
| Stddev | .00057 | .00004 | .0044 | .00032 | .00019 | .1254 | .00023 | .00019 | .00172 |
| %RSD | 48.994 | 6.9279 | .08886 | 10.452 | 8.0891 | 1.2546 | 231.86 | 6.4659 | 6.8930 |
| #1 | .00157 | .00061 | 4.9341 | .00324 | -.00243 | 10.083 | .00006 | .00309 | -.02377 |
| #2 | .00076 | .00055 | 4.9280 | .00279 | -.00216 | 9.9055 | -.00026 | .00282 | -.02620 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5233.1** | **67086.** | **2872.7** |
| Stddev | 36.7 | 163. | 10.9 |
| %RSD | .70057 | .24328 | .37804 |
| #1 | 5259.0 | 66971. | 2880.4 |
| #2 | 5207.2 | 67202. | 2865.0 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 11:26:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49986** | **.51274** | **1.0025** | **.50162** | **.50302** | **.50128** | **.00045** | **5.0734** | **.50085** | **.50667** | **.50428** | **.50159** | **2.5326** |
| Stddev | .00090 | .00076 | .0013 | .00045 | .00202 | .00368 | .00253 | .0200 | .00015 | .00034 | .00058 | .00219 | .0062 |
| %RSD | .18094 | .14759 | .12781 | .08960 | .40238 | .73507 | 566.37 | .39496 | .02954 | .06731 | .11436 | .43700 | .24581 |
| #1 | .50050 | .51327 | 1.0016 | .50193 | .50445 | .50389 | -.00134 | 5.0876 | .50075 | .50642 | .50387 | .50314 | 2.5370 |
| #2 | .49922 | .51220 | 1.0034 | .50130 | .50159 | .49868 | .00224 | 5.0592 | .50096 | .50691 | .50469 | .50004 | 2.5282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.327** | **1.0310** | **20.134** | **.50143** | **.50524** | **5.1791** | **.50992** | **1.0023** | **1.0104** | **.01150** | **1.0046** | **.99955** | **5.0630** |
| Stddev | .205 | .0063 | .043 | .00116 | .00074 | .0415 | .00017 | .0004 | .0036 | .00116 | .0040 | .00035 | .0410 |
| %RSD | .40005 | .61464 | .21345 | .23215 | .14695 | .80175 | .03329 | .04460 | .35774 | 10.100 | .39761 | .03455 | .80941 |
| #1 | 51.472 | 1.0355 | 20.164 | .50225 | .50472 | 5.2085 | .50980 | 1.0020 | 1.0129 | .01232 | 1.0017 | .99931 | 5.0340 |
| #2 | 51.182 | 1.0266 | 20.104 | .50061 | .50577 | 5.1498 | .51004 | 1.0026 | 1.0078 | .01068 | 1.0074 | .99980 | 5.0920 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0080** | **.50300** | **.00023** | **.50002** | **1.0102** | **-.05590** | **.50155** | **.50573** | **.49873** |
| Stddev | .0015 | .00029 | .00073 | .00066 | .0050 | .01212 | .00130 | .00043 | .00283 |
| %RSD | .14801 | .05865 | 318.31 | .13206 | .49637 | 21.684 | .25910 | .08405 | .56788 |
| #1 | 1.0091 | .50321 | -.00029 | .50049 | 1.0137 | -.06448 | .50247 | .50543 | .50073 |
| #2 | 1.0070 | .50279 | .00075 | .49955 | 1.0066 | -.04733 | .50063 | .50603 | .49672 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5397.9** | **67977.** | **2907.9** |
| Stddev | 3.7 | 208. | 3.8 |
| %RSD | .06940 | .30663 | .13197 |
| #1 | 5395.3 | 68124. | 2905.2 |
| #2 | 5400.6 | 67830. | 2910.6 |

Sample Name: CCB Acquired: 5/18/2013 11:29:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.00426** | **.00095** | W **.00205** | **.00040** | **.00000** | **-.00426** | **.01767** | **.00016** | **-.00032** | **.00013** |
| Stddev | .00009 | .00014 | .00025 | .00055 | .00034 | .00008 | .00125 | .00598 | .00014 | .00008 | .00003 |
| %RSD | 40.074 | 3.2633 | 26.020 | 26.933 | 84.922 | 380710. | 29.287 | 33.847 | 83.972 | 24.421 | 26.130 |
| #1 | -.00016 | .00436 | .00077 | .00166 | .00016 | .00006 | -.00338 | .01344 | .00026 | -.00037 | .00015 |
| #2 | -.00028 | .00416 | .00112 | .00244 | .00064 | -.00006 | -.00515 | .02190 | .00007 | -.00026 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00702** | **.12161** | **.00086** | **.00502** | **.00012** | **.00014** | **.07872** | **-.00048** | **.00295** | **.00015** |
| Stddev | .00010 | .00111 | .01128 | .00296 | .00229 | .00008 | .00005 | .01365 | .00008 | .00179 | .00035 |
| %RSD | 571.87 | 15.797 | 9.2759 | 345.52 | 45.635 | 73.301 | 34.274 | 17.340 | 17.171 | 60.507 | 240.75 |
| #1 | -.00005 | .00623 | .12958 | -.00123 | .00664 | .00006 | .00011 | .06907 | -.00043 | .00169 | -.00010 |
| #2 | .00008 | .00780 | .11363 | .00295 | .00340 | .00018 | .00018 | .08838 | -.00054 | .00422 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00988** | **-.00001** | **-.00032** | **.00926** | **.00119** | **.00024** | **.00005** | **-.00027** | **-.00074** | **-.02156** | **.00068** |
| Stddev | .00160 | .00064 | .00141 | .00421 | .00083 | .00014 | .00015 | .00036 | .00082 | .03324 | .00096 |
| %RSD | 16.238 | 6194.2 | 436.33 | 45.515 | 69.547 | 59.337 | 328.09 | 130.44 | 110.59 | 154.15 | 140.58 |
| #1 | .01101 | .00044 | .00067 | .01224 | .00061 | .00014 | -.00006 | -.00002 | -.00133 | .00194 | .00000 |
| #2 | .00874 | -.00046 | -.00132 | .00628 | .00178 | .00034 | .00015 | -.00053 | -.00016 | -.04507 | .00136 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00267** | **-.00192** |
| Stddev | .00003 | .00455 |
| %RSD | 1.2213 | 237.32 |
| #1 | .00264 | .00130 |
| #2 | .00269 | -.00513 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5378.1** | **67819.** | **2867.5** |
| Stddev | 28.0 | 46. | 24.2 |
| %RSD | .52040 | .06799 | .84441 |
| #1 | 5358.3 | 67787. | 2884.7 |
| #2 | 5397.9 | 67852. | 2850.4 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 11:31:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00965** | **.10675** | **.01349** | **.10245** | **.01087** | **.00097** | **.10468** | **.21429** | **.00525** | **.01066** | **.01031** | **.01597** |
| Stddev | .00063 | .00018 | .00294 | .00090 | .00017 | .00025 | .00219 | .00519 | .00004 | .00001 | .00015 | .00008 |
| %RSD | 6.5465 | .16914 | 21.766 | .87359 | 1.6038 | 25.362 | 2.0940 | 2.4212 | .84284 | .10269 | 1.4359 | .48201 |
| #1 | .00921 | .10662 | .01557 | .10182 | .01075 | .00080 | .10623 | .21796 | .00528 | .01065 | .01042 | .01603 |
| #2 | .01010 | .10687 | .01142 | .10309 | .01099 | .00115 | .10313 | .21062 | .00522 | .01067 | .01021 | .01592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11003** | **3.2188** | **.01131** | **.21287** | **.01035** | **.02052** | **1.0969** | **.04167** | **2.9611** | **.01079** | **.01013** | F **.00692** |
| Stddev | .00689 | .0572 | .00151 | .00007 | .00001 | .00023 | .0191 | .00008 | .0087 | .00029 | .00143 | .00117 |
| %RSD | 6.2639 | 1.7766 | 13.382 | .03181 | .13356 | 1.1307 | 1.7386 | .18727 | .29480 | 2.6618 | 14.142 | 16.869 |
| #1 | .11490 | 3.2593 | .01024 | .21282 | .01036 | .02068 | 1.1104 | .04173 | 2.9550 | .01100 | .01115 | .00774 |
| #2 | .10516 | 3.1784 | .01238 | .21292 | .01034 | .02035 | 1.0834 | .04162 | 2.9673 | .01059 | .00912 | .00609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail |
| Value | | | | | | | | | | | | .01000 |
| Range | | | | | | | | | | | | -30.000% |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01298** | **.49559** | **.10275** | **.01043** | **.01518** | **.01033** | **.01456** | **.05745** | **.00996** | **.02338** | **.01668** |
| Stddev | .00015 | .00564 | .00010 | .00004 | .00198 | .00057 | .00014 | .02750 | .00037 | .00012 | .00243 |
| %RSD | 1.1835 | 1.1383 | .09912 | .35249 | 13.044 | 5.5186 | .95754 | 47.871 | 3.7419 | .50827 | 14.579 |
| #1 | .01309 | .49160 | .10282 | .01040 | .01658 | .00993 | .01466 | .03800 | .01022 | .02347 | .01840 |
| #2 | .01287 | .49958 | .10268 | .01045 | .01378 | .01074 | .01446 | .07689 | .00969 | .02330 | .01496 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5417.7** | **68424.** | **2911.3** |
| Stddev | 9.6 | 456. | 19.4 |
| %RSD | .17711 | .66684 | .66490 |
| #1 | 5424.5 | 68102. | 2897.6 |
| #2 | 5410.9 | 68747. | 2925.0 |

Sample Name: MB 280-172569/1-A Acquired: 5/18/2013 11:34:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **.00512** | **-.00000** | **.00470** | **.00075** | **-.00013** | **-.00054** | F **.21290** | **.00024** |
| Stddev | .00048 | .00000 | .00040 | .00001 | .00068 | .00001 | .00206 | .01013 | .00019 |
| %RSD | 117.97 | .02945 | 16298. | .29319 | 90.183 | 11.085 | 383.86 | 4.7594 | 80.815 |
| #1 | -.00074 | .00512 | -.00028 | .00469 | .00124 | -.00012 | .00092 | .20573 | .00038 |
| #2 | -.00007 | .00512 | .00028 | .00471 | .00027 | -.00014 | -.00200 | .22006 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | .20000 | |
| Low Limit | | | | | | | | -.20000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **-.00016** | **.00104** | W **.03454** | **.08348** | **-.00246** | F **.12784** | **.00439** | **-.00002** |
| Stddev | .00001 | .00025 | .00026 | .00235 | .03426 | .00076 | .00156 | .00001 | .00002 |
| %RSD | 8.0168 | 162.35 | 24.674 | 6.8060 | 41.039 | 31.009 | 1.2171 | .20162 | 86.371 |
| #1 | -.00019 | .00002 | .00086 | .03620 | .05926 | -.00300 | .12894 | .00440 | -.00004 |
| #2 | -.00017 | -.00034 | .00122 | .03288 | .10771 | -.00192 | .12674 | .00438 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | .10000 | | |
| Low Limit | | | | -.05000 | | | -.10000 | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06558** | **-.00050** | F **.16447** | **.00092** | **.23732** | **-.00128** | **.00017** | **.01425** | **.00085** |
| Stddev | .00124 | .00022 | .00098 | .00138 | .00136 | .00021 | .00337 | .00585 | .00036 |
| %RSD | 1.8933 | 44.442 | .59778 | 149.61 | .57333 | 16.691 | 2004.0 | 41.018 | 42.950 |
| #1 | .06470 | -.00066 | .16516 | .00189 | .23828 | -.00143 | .00255 | .01012 | .00059 |
| #2 | .06646 | -.00034 | .16377 | -.00005 | .23636 | -.00113 | -.00221 | .01839 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00099** | **-.00006** | **-.00181** | W **-.05796** | **.00050** | **.00291** | **.00032** |
| Stddev | .00003 | .00191 | .00016 | .00035 | .00547 | .00036 | .00003 | .00086 |
| %RSD | 6.0218 | 192.65 | 253.62 | 19.649 | 9.4332 | 71.881 | .95056 | 265.11 |
| #1 | .00049 | .00235 | .00005 | -.00206 | -.05410 | .00076 | .00289 | -.00028 |
| #2 | .00045 | -.00036 | -.00017 | -.00155 | -.06183 | .00025 | .00293 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .05000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5422.9** | **68598.** | **2921.8** |
| Stddev | 3.1 | 98. | 8.6 |
| %RSD | .05684 | .14318 | .29329 |
| #1 | 5425.1 | 68529. | 2915.7 |
| #2 | 5420.8 | 68668. | 2927.8 |

Sample Name: LCS 280-172569/2-A Acquired: 5/18/2013 11:36:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05179** | **1.9814** | **1.0033** | **1.0263** | **2.0246** | **.05087** | **2.0396** | **49.802** | **.10379** |
| Stddev | .00191 | .0064 | .0000 | .0020 | .0099 | .00013 | .0130 | .305 | .00012 |
| %RSD | 3.6909 | .32154 | .00148 | .19344 | .48957 | .24825 | .63823 | .61173 | .11390 |
| #1 | .05315 | 1.9859 | 1.0033 | 1.0277 | 2.0316 | .05078 | 2.0488 | 50.017 | .10388 |
| #2 | .05044 | 1.9769 | 1.0033 | 1.0249 | 2.0176 | .05096 | 2.0304 | 49.586 | .10371 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50204** | **.20357** | **.25561** | **1.0153** | **51.511** | **1.0308** | **50.557** | **.50077** | **1.0378** |
| Stddev | .00207 | .00056 | .00034 | .0046 | .426 | .0089 | .132 | .00125 | .0047 |
| %RSD | .41284 | .27723 | .13152 | .44889 | .82651 | .85975 | .26062 | .24963 | .45164 |
| #1 | .50350 | .20397 | .25585 | 1.0185 | 51.812 | 1.0371 | 50.464 | .49988 | 1.0411 |
| #2 | .50057 | .20317 | .25537 | 1.0120 | 51.210 | 1.0245 | 50.650 | .50165 | 1.0345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.349** | **.50298** | **10.434** | **.50388** | **.01274** | **.51574** | **2.0347** | **10.392** | **2.0605** |
| Stddev | .001 | .00193 | .027 | .00038 | .00052 | .00632 | .0069 | .063 | .0216 |
| %RSD | .00119 | .38330 | .25568 | .07555 | 4.0902 | 1.2246 | .34062 | .60244 | 1.0482 |
| #1 | 51.350 | .50435 | 10.453 | .50415 | .01311 | .52020 | 2.0396 | 10.436 | 2.0758 |
| #2 | 51.349 | .50162 | 10.416 | .50361 | .01237 | .51127 | 2.0298 | 10.348 | 2.0452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0034** | **.99248** | **1.0248** | **2.0354** | **2.0247** | **.51155** | **.50434** | **.50401** |
| Stddev | .0052 | .00207 | .0035 | .0157 | .0050 | .00121 | .00092 | .00205 |
| %RSD | .51380 | .20883 | .34561 | .76899 | .24653 | .23695 | .18183 | .40643 |
| #1 | 1.0071 | .99102 | 1.0223 | 2.0465 | 2.0283 | .51070 | .50369 | .50257 |
| #2 | .99976 | .99395 | 1.0273 | 2.0244 | 2.0212 | .51241 | .50499 | .50546 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5278.6** | **66908.** | **2911.7** |
| Stddev | 17.1 | 109. | 13.9 |
| %RSD | .32470 | .16364 | .47615 |
| #1 | 5266.5 | 66986. | 2901.9 |
| #2 | 5290.7 | 66831. | 2921.5 |

Sample Name: 280-41739-A-6-A  Acquired: 5/18/2013 11:38:50  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.15699** | **.04459** | **2.4184** | **.14896** | **-.00018** | **-.00462** | **188.17** | **.00043** |
| Stddev | .00020 | .00338 | .00112 | .0111 | .00159 | .00001 | .00019 | 1.62 | .00004 |
| %RSD | 58.705 | 2.1539 | 2.5192 | .45843 | 1.0662 | 3.5146 | 4.1465 | .86089 | 8.3516 |
| #1 | .00049 | .15938 | .04538 | 2.4262 | .14783 | -.00019 | -.00475 | 187.03 | .00041 |
| #2 | .00020 | .15460 | .04380 | 2.4106 | .15008 | -.00018 | -.00448 | 189.32 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01326** | **.00103** | **.00201** | **27.810** | **1.3821** | **.00191** | **117.17** | **4.1763** | **.00079** |
| Stddev | .00043 | .00000 | .00000 | .178 | .0277 | .00035 | .05 | .0061 | .00000 |
| %RSD | 3.2588 | .31000 | .11511 | .63958 | 2.0054 | 18.560 | .04186 | .14713 | .41527 |
| #1 | .01357 | .00102 | .00201 | 27.684 | 1.3625 | .00216 | 117.13 | 4.1720 | .00079 |
| #2 | .01295 | .00103 | .00201 | 27.936 | 1.4017 | .00166 | 117.20 | 4.1807 | .00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.933** | **.00308** | **.16942** | **.00129** | **234.17** | **-.00159** | **-.00208** | **7.0812** | **.00130** |
| Stddev | .371 | .00000 | .00378 | .00048 | 1.60 | .00126 | .00434 | .0669 | .00001 |
| %RSD | 1.3275 | .06887 | 2.2333 | 37.343 | .68268 | 79.536 | 208.55 | .94524 | .95152 |
| #1 | 27.671 | .00308 | .17209 | .00163 | 235.30 | -.00248 | -.00515 | 7.0339 | .00129 |
| #2 | 28.196 | .00307 | .16674 | .00095 | 233.04 | -.00070 | .00099 | 7.1286 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33563** | **.00223** | **.00345** | **-.00135** | W **-.05695** | **.00183** | **.00577** | **-.00004** |
| Stddev | .00301 | .00129 | .00053 | .00151 | .01364 | .00060 | .00012 | .00019 |
| %RSD | .89772 | 57.569 | 15.295 | 111.92 | 23.958 | 32.988 | 2.0469 | 478.60 |
| #1 | .33350 | .00314 | .00382 | -.00028 | -.04730 | .00140 | .00585 | .00010 |
| #2 | .33776 | .00132 | .00308 | -.00242 | -.06659 | .00225 | .00569 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5168.5** | **66620.** | **2907.4** |
| Stddev | 79.1 | 85. | 16.1 |
| %RSD | 1.5314 | .12751 | .55517 |
| #1 | 5224.4 | 66560. | 2918.8 |
| #2 | 5112.5 | 66680. | 2896.0 |

Sample Name: sd 280-41739-A-6-A@5 Acquired: 5/18/2013 11:41:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00105** | **.03338** | **.00827** | **.48190** | **.02975** | **-.00013** | **-.00185** | **37.868** | **.00026** |
| Stddev | .00003 | .00022 | .00241 | .00071 | .00108 | .00009 | .00184 | .237 | .00011 |
| %RSD | 3.1063 | .66986 | 29.083 | .14779 | 3.6309 | 65.953 | 99.429 | .62506 | 43.815 |
| #1 | -.00108 | .03322 | .00657 | .48140 | .03052 | -.00019 | -.00315 | 38.036 | .00034 |
| #2 | -.00103 | .03354 | .00997 | .48240 | .02899 | -.00007 | -.00055 | 37.701 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00226** | **.00009** | **.00109** | **5.6298** | **.39482** | **-.00078** | **23.058** | **.83616** | **-.00005** |
| Stddev | .00026 | .00012 | .00024 | .0121 | .05876 | .00050 | .048 | .00159 | .00008 |
| %RSD | 11.599 | 134.68 | 22.254 | .21489 | 14.884 | 64.081 | .20608 | .19049 | 157.18 |
| #1 | .00245 | .00000 | .00092 | 5.6383 | .43638 | -.00042 | 23.092 | .83728 | -.00011 |
| #2 | .00208 | .00018 | .00126 | 5.6212 | .35327 | -.00113 | 23.025 | .83503 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.4758** | **.00012** | **.03498** | **.00139** | **45.567** | **-.00114** | **-.00329** | **1.4176** | **.00028** |
| Stddev | .0444 | .00048 | .00037 | .00036 | .025 | .00107 | .00055 | .0330 | .00092 |
| %RSD | .81149 | 396.31 | 1.0603 | 25.485 | .05423 | 93.564 | 16.561 | 2.3302 | 330.39 |
| #1 | 5.5073 | -.00022 | .03524 | .00114 | 45.584 | -.00039 | -.00291 | 1.4410 | .00093 |
| #2 | 5.4444 | .00046 | .03471 | .00165 | 45.549 | -.00190 | -.00368 | 1.3943 | -.00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06749** | **.00032** | **.00037** | **.00013** | W **-.05939** | **.00052** | **.00434** | **.00056** |
| Stddev | .00003 | .00010 | .00024 | .00161 | .04800 | .00075 | .00074 | .00626 |
| %RSD | .03954 | 30.656 | 66.656 | 1205.3 | 80.816 | 145.09 | 17.037 | 1114.1 |
| #1 | .06751 | .00039 | .00019 | .00127 | -.02545 | -.00001 | .00382 | .00499 |
| #2 | .06747 | .00025 | .00054 | -.00101 | -.09333 | .00105 | .00486 | -.00387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5305.8** | **67497.** | **2864.4** |
| Stddev | 16.3 | 249. | 22.2 |
| %RSD | .30722 | .36903 | .77405 |
| #1 | 5294.3 | 67321. | 2848.7 |
| #2 | 5317.3 | 67673. | 2880.0 |

Sample Name: 280-41739-A-6-B MS  Acquired: 5/18/2013 11:43:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05255** | **2.4637** | **1.0650** | **3.4763** | **2.1995** | **.04944** | **2.0516** | **239.57** | **.10427** |
| Stddev | .00024 | .0029 | .0012 | .0030 | .0046 | .00016 | .0061 | .41 | .00013 |
| %RSD | .46104 | .11768 | .11505 | .08678 | .20857 | .32924 | .29558 | .17281 | .12032 |
| #1 | .05272 | 2.4658 | 1.0659 | 3.4784 | 2.1962 | .04932 | 2.0473 | 239.28 | .10418 |
| #2 | .05238 | 2.4617 | 1.0642 | 3.4741 | 2.2027 | .04955 | 2.0558 | 239.86 | .10436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50425** | **.20359** | **.25748** | **29.109** | **53.734** | **1.0494** | **166.89** | **4.6185** | **1.0622** |
| Stddev | .00103 | .00124 | .00198 | .051 | .206 | .0007 | .54 | .0192 | .0013 |
| %RSD | .20419 | .60850 | .76975 | .17511 | .38335 | .06457 | .32153 | .41513 | .12418 |
| #1 | .50498 | .20447 | .25888 | 29.073 | 53.588 | 1.0499 | 167.27 | 4.6050 | 1.0631 |
| #2 | .50352 | .20272 | .25608 | 29.145 | 53.879 | 1.0489 | 166.51 | 4.6321 | 1.0613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.117** | **.49468** | **10.606** | **.49591** | **236.62** | **.53286** | **2.0368** | **18.458** | **2.0902** |
| Stddev | .789 | .00046 | .027 | .00016 | .41 | .00212 | .0054 | .040 | .0045 |
| %RSD | .99778 | .09328 | .25490 | .03268 | .17356 | .39814 | .26709 | .21742 | .21615 |
| #1 | 78.559 | .49500 | 10.625 | .49579 | 236.91 | .53436 | 2.0407 | 18.430 | 2.0934 |
| #2 | 79.676 | .49435 | 10.587 | .49602 | 236.33 | .53136 | 2.0330 | 18.487 | 2.0870 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3413** | **.98265** | **1.0387** | **1.9767** | **2.0142** | **.50668** | **.48760** | **.51401** |
| Stddev | .0021 | .00008 | .0023 | .0029 | .0120 | .00358 | .00218 | .00016 |
| %RSD | .15675 | .00837 | .22245 | .14774 | .59528 | .70610 | .44635 | .03047 |
| #1 | 1.3398 | .98270 | 1.0403 | 1.9788 | 2.0227 | .50921 | .48914 | .51390 |
| #2 | 1.3428 | .98259 | 1.0371 | 1.9746 | 2.0058 | .50415 | .48606 | .51412 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5063.1** | **65111.** | **2829.2** |
| Stddev | 8.6 | 153. | 16.4 |
| %RSD | .16936 | .23503 | .58022 |
| #1 | 5057.1 | 65003. | 2840.8 |
| #2 | 5069.2 | 65219. | 2817.6 |

Sample Name: 280-41739-A-6-C MSD  Acquired: 5/18/2013 11:45:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05379** | **2.6113** | **1.1007** | **3.5470** | **2.2781** | **.05086** | **2.1131** | **245.81** | **.10778** |
| Stddev | .00146 | .0021 | .0008 | .0069 | .0060 | .00016 | .0003 | .52 | .00013 |
| %RSD | 2.7163 | .08089 | .07727 | .19560 | .26343 | .32366 | .01293 | .21203 | .12199 |
| #1 | .05276 | 2.6128 | 1.1013 | 3.5421 | 2.2824 | .05098 | 2.1133 | 246.18 | .10768 |
| #2 | .05482 | 2.6098 | 1.1001 | 3.5519 | 2.2739 | .05075 | 2.1129 | 245.44 | .10787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52030** | **.21019** | **.32229** | **30.030** | **55.140** | **1.0761** | **172.07** | **4.7038** | **1.0692** |
| Stddev | .00076 | .00028 | .00331 | .062 | .035 | .0014 | 1.53 | .0215 | .0009 |
| %RSD | .14549 | .13535 | 1.0285 | .20548 | .06430 | .13181 | .88880 | .45629 | .08829 |
| #1 | .52084 | .20999 | .31994 | 30.074 | 55.165 | 1.0771 | 170.98 | 4.6886 | 1.0699 |
| #2 | .51977 | .21039 | .32463 | 29.987 | 55.114 | 1.0751 | 173.15 | 4.7190 | 1.0686 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **81.692** | **.51128** | **10.916** | **.51112** | **242.50** | **.53691** | **2.0963** | **18.833** | **2.1035** |
| Stddev | .585 | .00015 | .003 | .00098 | .02 | .00109 | .0036 | .055 | .0014 |
| %RSD | .71592 | .02869 | .02903 | .19111 | .00852 | .20321 | .17059 | .29124 | .06537 |
| #1 | 81.279 | .51138 | 10.913 | .51043 | 242.49 | .53614 | 2.0938 | 18.872 | 2.1044 |
| #2 | 82.106 | .51118 | 10.918 | .51181 | 242.52 | .53769 | 2.0988 | 18.794 | 2.1025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3769** | **1.0126** | **1.0475** | **2.0304** | **2.0859** | **.52421** | **.53376** | **.51638** |
| Stddev | .0038 | .0046 | .0073 | .0017 | .0250 | .00378 | .00412 | .00000 |
| %RSD | .27369 | .45188 | .69886 | .08568 | 1.1997 | .72135 | .77180 | .00077 |
| #1 | 1.3796 | 1.0094 | 1.0423 | 2.0292 | 2.0682 | .52153 | .53085 | .51639 |
| #2 | 1.3742 | 1.0159 | 1.0526 | 2.0316 | 2.1036 | .52688 | .53667 | .51638 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5064.4** | **64672.** | **2773.0** |
| Stddev | 6.1 | 230. | 3.9 |
| %RSD | .12054 | .35637 | .14113 |
| #1 | 5068.7 | 64835. | 2775.7 |
| #2 | 5060.1 | 64509. | 2770.2 |

Sample Name: 280-41739-A-26-A  Acquired: 5/18/2013 11:48:13  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00049** | **.03557** | **.00084** | **.54993** | **.03883** | **-.00013** | **-.00255** | **143.51** | **.00039** |
| Stddev | .00020 | .00056 | .00068 | .00055 | .00030 | .00001 | .00134 | .03 | .00025 |
| %RSD | 41.362 | 1.5612 | 81.019 | .10034 | .78375 | 9.4564 | 52.329 | .02366 | 64.596 |
| #1 | -.00063 | .03518 | .00132 | .55032 | .03861 | -.00014 | -.00161 | 143.48 | .00021 |
| #2 | -.00035 | .03596 | .00036 | .54954 | .03904 | -.00012 | -.00350 | 143.53 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.00112** | **.00227** | **.10048** | **3.4903** | **.19712** | **121.36** | **.18400** | **-.00006** |
| Stddev | .00007 | .00000 | .00025 | .00623 | .0092 | .00271 | 1.12 | .00137 | .00036 |
| %RSD | 14.184 | .05023 | 11.064 | 6.2016 | .26316 | 1.3747 | .91913 | .74374 | 597.37 |
| #1 | .00058 | .00112 | .00209 | .10489 | 3.4968 | .19520 | 122.15 | .18497 | .00020 |
| #2 | .00048 | .00112 | .00244 | .09607 | 3.4838 | .19903 | 120.58 | .18303 | -.00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.345** | **.00222** | **.23325** | **.00212** | **56.897** | **-.00133** | **-.00165** | **12.492** | **.00042** |
| Stddev | .411 | .00020 | .00416 | .00019 | .023 | .00101 | .00004 | .099 | .00092 |
| %RSD | 1.4504 | 9.0666 | 1.7823 | 9.1417 | .04036 | 76.432 | 2.3372 | .79281 | 218.78 |
| #1 | 28.054 | .00236 | .23031 | .00226 | 56.913 | -.00204 | -.00162 | 12.422 | -.00023 |
| #2 | 28.635 | .00208 | .23619 | .00198 | 56.880 | -.00061 | -.00168 | 12.562 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52213** | **.00086** | **.00087** | **.00094** | W **-.07522** | **.00152** | **.00857** | **-.00157** |
| Stddev | .00016 | .00034 | .00051 | .00136 | .00202 | .00003 | .00002 | .00095 |
| %RSD | .03136 | 39.945 | 58.105 | 144.00 | 2.6898 | 1.6626 | .17665 | 60.042 |
| #1 | .52201 | .00062 | .00052 | .00190 | -.07379 | .00153 | .00858 | -.00091 |
| #2 | .52224 | .00110 | .00123 | -.00002 | -.07665 | .00150 | .00856 | -.00224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5117.1** | **65553.** | **2814.3** |
| Stddev | 14.8 | 462. | 11.6 |
| %RSD | .28932 | .70492 | .41163 |
| #1 | 5127.5 | 65226. | 2806.2 |
| #2 | 5106.6 | 65879. | 2822.5 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 11:50:37 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **50.183** | **-.00317** | **.01064** | **.00125** | **-.00006** | **1.0132** | **.01174** | **-.00070** | **.00158** | **-.00026** | **.00218** | **49.863** |
| Stddev | .00058 | .115 | .00159 | .00026 | .00063 | .00016 | .0037 | .00693 | .00012 | .00015 | .00003 | .00019 | .163 |
| %RSD | 98.308 | .22866 | 50.062 | 2.4394 | 50.482 | 252.26 | .36072 | 59.019 | 16.961 | 9.5909 | 12.543 | 8.9252 | .32761 |
| #1 | -.00100 | 50.101 | -.00429 | .01082 | .00081 | .00005 | 1.0157 | .01664 | -.00079 | .00147 | -.00028 | .00204 | 49.747 |
| #2 | -.00018 | 50.264 | -.00205 | .01046 | .00170 | -.00018 | 1.0106 | .00684 | -.00062 | .00168 | -.00024 | .00232 | 49.978 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18206** | **-.00119** | **.01026** | **.00003** | **-.00142** | **254.46** | **.00092** | **.00968** | **.00094** | **5.0883** | **.00123** | **.00329** | **.03530** |
| Stddev | .01461 | .00154 | .00061 | .00007 | .00035 | .36 | .00004 | .00065 | .00131 | .0167 | .00025 | .00234 | .00563 |
| %RSD | 8.0233 | 128.90 | 5.9880 | 209.34 | 24.440 | .14216 | 4.4584 | 6.6808 | 138.35 | .32893 | 20.353 | 71.124 | 15.938 |
| #1 | .17173 | -.00011 | .00983 | .00008 | -.00118 | 254.20 | .00089 | .01014 | .00002 | 5.1001 | .00105 | .00494 | .03132 |
| #2 | .19239 | -.00228 | .01070 | -.00002 | -.00167 | 254.72 | .00095 | .00923 | .00187 | 5.0764 | .00141 | .00163 | .03928 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00178** | **.00041** | **4.9582** | **.00309** | **-.00020** | **10.152** | **.00060** | **.00298** | **-.02342** |
| Stddev | .00039 | .00011 | .0216 | .00012 | .00207 | .042 | .00024 | .00016 | .00495 |
| %RSD | 21.971 | 25.873 | .43506 | 3.9205 | 1042.1 | .41093 | 40.861 | 5.2887 | 21.160 |
| #1 | .00150 | .00048 | 4.9430 | .00317 | -.00166 | 10.181 | .00077 | .00310 | -.01991 |
| #2 | .00206 | .00033 | 4.9735 | .00300 | .00126 | 10.122 | .00042 | .00287 | -.02692 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5179.0** | **65378.** | **2805.8** |
| Stddev | 8.1 | 251. | 16.2 |
| %RSD | .15663 | .38375 | .57726 |
| #1 | 5173.2 | 65555. | 2817.3 |
| #2 | 5184.7 | 65200. | 2794.4 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 11:53:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49984** | **.52461** | **1.0092** | **.51049** | **.50249** | **.50115** | **.00125** | **5.2391** | **.50383** | **.50940** | **.50916** | **.50396** | **2.5718** |
| Stddev | .00051 | .00001 | .0068 | .00077 | .00282 | .00259 | .00017 | .0448 | .00057 | .00030 | .00045 | .00094 | .0285 |
| %RSD | .10302 | .00139 | .67615 | .15055 | .56197 | .51700 | 13.433 | .85485 | .11334 | .05812 | .08882 | .18674 | 1.1096 |
| #1 | .50021 | .52460 | 1.0044 | .51103 | .50050 | .49932 | .00137 | 5.2075 | .50343 | .50919 | .50948 | .50463 | 2.5516 |
| #2 | .49948 | .52462 | 1.0141 | .50994 | .50449 | .50299 | .00113 | 5.2708 | .50424 | .50961 | .50884 | .50330 | 2.5920 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.386** | **1.0375** | **20.372** | **.50593** | **.50989** | **5.3478** | **.51313** | **1.0155** | **1.0157** | **.13708** | **1.0046** | **1.0026** | **5.0877** |
| Stddev | .257 | .0018 | .027 | .00106 | .00007 | .0193 | .00045 | .0039 | .0001 | .00992 | .0035 | .0008 | .0565 |
| %RSD | .49926 | .17483 | .13037 | .21044 | .01443 | .36054 | .08727 | .37972 | .01402 | 7.2402 | .35109 | .08137 | 1.1102 |
| #1 | 51.205 | 1.0362 | 20.391 | .50668 | .50984 | 5.3614 | .51344 | 1.0127 | 1.0156 | .14409 | 1.0021 | 1.0021 | 5.0478 |
| #2 | 51.568 | 1.0388 | 20.353 | .50518 | .50994 | 5.3341 | .51281 | 1.0182 | 1.0158 | .13006 | 1.0071 | 1.0032 | 5.1276 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0211** | **.49906** | **.00145** | **.50228** | **1.0118** | **-.02854** | **.50661** | **.51390** | **.49614** |
| Stddev | .0012 | .00191 | .00254 | .00121 | .0007 | .01929 | .00128 | .00237 | .00892 |
| %RSD | .11919 | .38319 | 174.60 | .24111 | .06877 | 67.607 | .25316 | .46123 | 1.7973 |
| #1 | 1.0202 | .49770 | -.00034 | .50314 | 1.0123 | -.04218 | .50751 | .51558 | .48983 |
| #2 | 1.0220 | .50041 | .00325 | .50143 | 1.0113 | -.01490 | .50570 | .51223 | .50244 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5195.4** | **65488.** | **2771.4** |
| Stddev | 6.1 | 353. | 12.7 |
| %RSD | .11784 | .53856 | .45960 |
| #1 | 5199.8 | 65239. | 2780.5 |
| #2 | 5191.1 | 65738. | 2762.4 |

Sample Name: CCB Acquired: 5/18/2013 11:55:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **.01307** | **-.00025** | F **.00778** | F **.00142** | **.00006** | **.00179** | F **.11127** | **.00037** | **.00015** | **-.00009** |
| Stddev | .00022 | .00005 | .00062 | .00043 | .00106 | .00001 | .00329 | .00737 | .00018 | .00010 | .00004 |
| %RSD | 934.20 | .37692 | 250.74 | 5.5656 | 74.850 | 24.675 | 183.81 | 6.6201 | 47.559 | 64.881 | 49.824 |
| #1 | .00013 | .01311 | -.00068 | .00809 | .00217 | .00007 | -.00054 | .11648 | .00050 | .00008 | -.00012 |
| #2 | -.00018 | .01304 | .00019 | .00748 | .00067 | .00005 | .00411 | .10606 | .00025 | .00022 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00115 | | | .06900 | | | |
| Low Limit | | | | -.00312 | -.00115 | | | -.06900 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | W **.02381** | **.20539** | **-.00048** | F **.07559** | F **.00173** | **.00048** | F **.12807** | **-.00045** | **.00549** | **.00167** |
| Stddev | .00003 | .00087 | .03469 | .00042 | .00290 | .00002 | .00000 | .01113 | .00023 | .00090 | .00139 |
| %RSD | 3.3721 | 3.6583 | 16.890 | 88.580 | 3.8399 | .97505 | .48867 | 8.6911 | 50.799 | 16.413 | 83.437 |
| #1 | .00100 | .02320 | .22992 | -.00018 | .07353 | .00174 | .00048 | .13594 | -.00061 | .00485 | .00265 |
| #2 | .00095 | .02443 | .18086 | -.00078 | .07764 | .00172 | .00047 | .12020 | -.00029 | .00612 | .00068 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .02200 | | | .02140 | .00051 | | .10000 | | | |
| Low Limit | | -.02200 | | | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10181** | **.00032** | **-.00039** | **.01042** | **.00125** | F **.00071** | **.00044** | **.00049** | **-.00042** | **-.03557** | **.00080** |
| Stddev | .00167 | .00102 | .00019 | .01418 | .00048 | .00006 | .00023 | .00067 | .00017 | .00047 | .00009 |
| %RSD | 1.6435 | 319.87 | 48.365 | 136.14 | 38.490 | 8.3148 | 52.691 | 135.46 | 41.586 | 1.3156 | 11.444 |
| #1 | .10299 | -.00040 | -.00053 | .00039 | .00091 | .00067 | .00060 | .00097 | -.00030 | -.03524 | .00074 |
| #2 | .10063 | .00104 | -.00026 | .02044 | .00159 | .00075 | .00028 | .00002 | -.00054 | -.03590 | .00087 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00060 | | | | | |
| Low Limit | | | | | | -.00060 | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00303** | **-.00218** |
| Stddev | .00013 | .00065 |
| %RSD | 4.2482 | 29.943 |
| #1 | .00294 | -.00264 |
| #2 | .00312 | -.00172 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5205.3** | **65316.** | **2750.4** |
| Stddev | 10.7 | 65. | 19.4 |
| %RSD | .20500 | .09907 | .70619 |
| #1 | 5197.8 | 65362. | 2764.2 |
| #2 | 5212.9 | 65270. | 2736.7 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 11:57:46 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00980** | **.11513** | W **.01071** | **.10667** | **.01123** | **.00089** | **.10328** | F **.30459** | **.00554** | **.01068** | **.01028** |
| Stddev | .00047 | .00015 | .00139 | .00058 | .00090 | .00003 | .00126 | .00238 | .00004 | .00010 | .00003 |
| %RSD | 4.7984 | .12749 | 12.953 | .54669 | 7.9838 | 3.7725 | 1.2195 | .78194 | .78048 | .95894 | .33188 |
| #1 | .00947 | .11503 | .00973 | .10708 | .01059 | .00087 | .10239 | .30291 | .00557 | .01061 | .01025 |
| #2 | .01013 | .11523 | .01169 | .10626 | .01186 | .00091 | .10418 | .30627 | .00551 | .01076 | .01030 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | .20000 | | | |
| Range | | | -20.000% | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01613** | W **.12628** | **3.3545** | **.01162** | F **.27384** | **.01182** | **.02113** | W **1.2094** | **.04210** | **2.9638** | **.01042** |
| Stddev | .00028 | .00027 | .0181 | .00101 | .00287 | .00002 | .00041 | .0205 | .00015 | .0063 | .00049 |
| %RSD | 1.7097 | .21057 | .53910 | 8.7116 | 1.0481 | .14253 | 1.9281 | 1.6952 | .35515 | .21164 | 4.7245 |
| #1 | .01593 | .12647 | 3.3417 | .01090 | .27587 | .01183 | .02084 | 1.1949 | .04199 | 2.9593 | .01007 |
| #2 | .01632 | .12609 | 3.3673 | .01233 | .27181 | .01181 | .02142 | 1.2239 | .04220 | 2.9682 | .01076 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | .20000 | | | 1.0000 | | | |
| Range | | 20.000% | | | 30.000% | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08514** | **.00936** | **.01346** | **.54121** | **.10411** | **.01087** | **.01769** | **.01031** | **.01694** | F **.03765** | **.01053** |
| Stddev | .00299 | .00146 | .00064 | .00339 | .00033 | .00002 | .00072 | .00016 | .00051 | .00110 | .00068 |
| %RSD | 3.5150 | 15.546 | 4.7335 | .62545 | .32133 | .18015 | 4.0534 | 1.5859 | 3.0335 | 2.9149 | 6.4692 |
| #1 | .08726 | .01039 | .01391 | .53882 | .10388 | .01086 | .01820 | .01020 | .01731 | .03687 | .01101 |
| #2 | .08303 | .00833 | .01301 | .54361 | .10435 | .01089 | .01719 | .01043 | .01658 | .03843 | .01004 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02419** | **.01391** |
| Stddev | .00033 | .00191 |
| %RSD | 1.3738 | 13.731 |
| #1 | .02442 | .01526 |
| #2 | .02395 | .01256 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5242.6** | **66321.** | **2791.8** |
| Stddev | 4.4 | 146. | 7.0 |
| %RSD | .08463 | .21954 | .25249 |
| #1 | 5245.8 | 66218. | 2796.7 |
| #2 | 5239.5 | 66424. | 2786.8 |

Sample Name: 280-41739-A-35-A  Acquired: 5/18/2013 12:00:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **.01574** | **-.00200** | **1.8823** | **.01489** | **-.00006** | **-.00458** | **96.740** | **.00057** |
| Stddev | .00012 | .00073 | .00149 | .0010 | .00001 | .00003 | .00103 | .545 | .00013 |
| %RSD | 43.845 | 4.6544 | 74.321 | .05415 | .05421 | 53.185 | 22.453 | .56327 | 22.213 |
| #1 | -.00018 | .01626 | -.00095 | 1.8816 | .01490 | -.00009 | -.00531 | 96.354 | .00066 |
| #2 | -.00034 | .01522 | -.00306 | 1.8830 | .01488 | -.00004 | -.00386 | 97.125 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00058** | **.00137** | **.09115** | **1.5363** | **.01204** | **55.095** | **.01572** | **.00036** |
| Stddev | .00021 | .00005 | .00009 | .00153 | .0093 | .00030 | .013 | .00015 | .00000 |
| %RSD | 303.55 | 9.2673 | 6.5369 | 1.6767 | .60359 | 2.4592 | .02393 | .92547 | .28769 |
| #1 | .00008 | .00054 | .00130 | .09007 | 1.5429 | .01183 | 55.105 | .01583 | .00036 |
| #2 | -.00022 | .00061 | .00143 | .09223 | 1.5298 | .01225 | 55.086 | .01562 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **40.055** | **.00555** | **.21283** | **.00142** | **111.03** | **-.00029** | **.00864** | **12.923** | **.00151** |
| Stddev | .019 | .00025 | .00164 | .00140 | .10 | .00122 | .00169 | .084 | .00086 |
| %RSD | .04741 | 4.4910 | .77269 | 98.223 | .08609 | 417.03 | 19.606 | .64875 | 56.759 |
| #1 | 40.042 | .00572 | .21399 | .00241 | 110.96 | -.00116 | .00984 | 12.864 | .00212 |
| #2 | 40.069 | .00537 | .21166 | .00043 | 111.10 | .00057 | .00744 | 12.982 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26340** | **-.00103** | **.00079** | **.00289** | W **-.05162** | **.00098** | **.02270** | **.00112** |
| Stddev | .00147 | .00131 | .00032 | .00180 | .02430 | .00003 | .00036 | .00204 |
| %RSD | .55969 | 127.17 | 40.017 | 62.203 | 47.078 | 2.6454 | 1.6017 | 182.85 |
| #1 | .26236 | -.00010 | .00057 | .00162 | -.06880 | .00100 | .02295 | -.00033 |
| #2 | .26444 | -.00196 | .00102 | .00416 | -.03443 | .00096 | .02244 | .00256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5187.4** | **66503.** | **2814.1** |
| Stddev | 20.7 | 128. | 21.6 |
| %RSD | .39925 | .19268 | .76728 |
| #1 | 5172.8 | 66412. | 2829.4 |
| #2 | 5202.1 | 66594. | 2798.8 |

Sample Name: 280-41739-A-42-A  Acquired: 5/18/2013 12:02:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **.00917** | **.01429** | **.32284** | **.18217** | **-.00011** | **-.00191** | **60.249** | **.00071** |
| Stddev | .00014 | .00195 | .00057 | .00046 | .00119 | .00002 | .00088 | .549 | .00009 |
| %RSD | 25.698 | 21.248 | 3.9580 | .14385 | .65275 | 22.231 | 46.202 | .91172 | 13.011 |
| #1 | -.00044 | .01055 | .01389 | .32251 | .18133 | -.00012 | -.00254 | 59.861 | .00065 |
| #2 | -.00064 | .00779 | .01469 | .32316 | .18301 | -.00009 | -.00129 | 60.638 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00350** | **.00046** | **.00231** | **6.4549** | **3.3462** | **.03108** | **21.566** | **.99571** | **.00072** |
| Stddev | .00020 | .00007 | .00030 | .0253 | .0684 | .00096 | .017 | .00020 | .00009 |
| %RSD | 5.6673 | 14.862 | 12.991 | .39255 | 2.0444 | 3.1032 | .08046 | .01976 | 11.791 |
| #1 | .00336 | .00051 | .00210 | 6.4370 | 3.3945 | .03040 | 21.554 | .99557 | .00066 |
| #2 | .00364 | .00041 | .00253 | 6.4728 | 3.2978 | .03177 | 21.578 | .99585 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.285** | **.00196** | **.21158** | **.00194** | **5.7742** | **-.00021** | **.00304** | **4.0157** | **.00045** |
| Stddev | .241 | .00006 | .00491 | .00099 | .0140 | .00157 | .00424 | .0511 | .00055 |
| %RSD | 2.1391 | 3.2188 | 2.3192 | 50.915 | .24210 | 751.64 | 139.36 | 1.2736 | 120.15 |
| #1 | 11.115 | .00200 | .21505 | .00124 | 5.7841 | -.00132 | .00604 | 3.9795 | .00007 |
| #2 | 11.456 | .00191 | .20811 | .00264 | 5.7643 | .00090 | .00004 | 4.0518 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36681** | **.00216** | **.00069** | **-.00051** | **-.03480** | **.00090** | **.00755** | **-.00085** |
| Stddev | .00398 | .00156 | .00061 | .00071 | .01638 | .00008 | .00037 | .00011 |
| %RSD | 1.0854 | 72.030 | 88.961 | 138.88 | 47.077 | 8.8919 | 4.9015 | 12.742 |
| #1 | .36399 | .00327 | .00025 | -.00102 | -.02322 | .00084 | .00729 | -.00092 |
| #2 | .36962 | .00106 | .00112 | -.00001 | -.04639 | .00095 | .00781 | -.00077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5272.2** | **66826.** | **2877.7** |
| Stddev | 1.4 | 39. | 25.4 |
| %RSD | .02683 | .05891 | .88264 |
| #1 | 5273.2 | 66854. | 2895.7 |
| #2 | 5271.2 | 66798. | 2859.8 |

Sample Name: 280-41739-A-50-A  Acquired: 5/18/2013 12:05:01  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00091** | **.11876** | **.00323** | **1.7491** | **1.3553** | **.00003** | **-.00311** | **79.521** | **.00002** |
| Stddev | .00013 | .00084 | .00042 | .0059 | .0066 | .00015 | .00136 | .404 | .00005 |
| %RSD | 13.892 | .71070 | 12.982 | .33829 | .48329 | 577.50 | 43.874 | .50814 | 223.52 |
| #1 | -.00082 | .11935 | .00352 | 1.7533 | 1.3506 | -.00008 | -.00214 | 79.235 | -.00001 |
| #2 | -.00100 | .11816 | .00293 | 1.7450 | 1.3599 | .00013 | -.00407 | 79.807 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **.00086** | **.00148** | **6.5579** | **18.035** | **.26699** | **28.945** | **.05592** | **.00074** |
| Stddev | .00003 | .00014 | .00001 | .0052 | .132 | .00148 | .011 | .00015 | .00006 |
| %RSD | 7.2273 | 16.041 | .69143 | .07911 | .73399 | .55265 | .03911 | .26741 | 8.2411 |
| #1 | .00040 | .00096 | .00147 | 6.5542 | 17.941 | .26595 | 28.953 | .05602 | .00070 |
| #2 | .00044 | .00077 | .00149 | 6.5616 | 18.128 | .26804 | 28.937 | .05581 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **469.14** | **.00070** | **.20496** | **.00087** | **.17375** | **-.00083** | **.00054** | **6.0042** | **.00047** |
| Stddev | 1.92 | .00025 | .00024 | .00211 | .00218 | .00291 | .00107 | .0158 | .00110 |
| %RSD | .40986 | 35.342 | .11538 | 241.28 | 1.2529 | 351.19 | 198.89 | .26288 | 231.48 |
| #1 | 467.78 | .00052 | .20479 | .00237 | .17529 | .00123 | .00129 | 5.9931 | .00125 |
| #2 | 470.49 | .00087 | .20513 | -.00062 | .17221 | -.00288 | -.00022 | 6.0154 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4212** | **-.00145** | **.00031** | **.00217** | **.00189** | **.00069** | **.00533** | **.00251** |
| Stddev | .0157 | .00224 | .00016 | .00147 | .06285 | .00030 | .00035 | .00359 |
| %RSD | .64911 | 154.94 | 51.699 | 67.789 | 3322.2 | 43.411 | 6.5541 | 142.94 |
| #1 | 2.4101 | -.00303 | .00042 | .00113 | .04633 | .00048 | .00557 | -.00003 |
| #2 | 2.4324 | .00014 | .00019 | .00321 | -.04255 | .00091 | .00508 | .00505 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5125.9** | **65195.** | **2836.6** |
| Stddev | 31.1 | 85. | 5.8 |
| %RSD | .60749 | .13078 | .20457 |
| #1 | 5103.9 | 65134. | 2840.7 |
| #2 | 5147.9 | 65255. | 2832.5 |

Sample Name: 280-41739-A-56-A  Acquired: 5/18/2013 12:07:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00134** | **.04992** | **-.00270** | **.07211** | **.04342** | **-.00019** | **-.00353** | **86.358** | **.00034** |
| Stddev | .00059 | .00047 | .00097 | .00067 | .00037 | .00019 | .00372 | .814 | .00004 |
| %RSD | 44.067 | .93368 | 35.854 | .92762 | .85350 | 100.47 | 105.24 | .94207 | 11.617 |
| #1 | -.00176 | .04959 | -.00339 | .07258 | .04368 | -.00005 | -.00090 | 86.934 | .00037 |
| #2 | -.00092 | .05025 | -.00202 | .07164 | .04316 | -.00032 | -.00616 | 85.783 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00051** | **.00607** | **.16910** | **2.0265** | **.03152** | **42.328** | **.01307** | **.00026** |
| Stddev | .00015 | .00023 | .00009 | .00519 | .0001 | .00046 | .205 | .00019 | .00015 |
| %RSD | 202.88 | 44.570 | 1.4628 | 3.0682 | .00299 | 1.4704 | .48503 | 1.4756 | 56.822 |
| #1 | .00003 | .00067 | .00613 | .17277 | 2.0264 | .03119 | 42.473 | .01321 | .00016 |
| #2 | -.00018 | .00035 | .00601 | .16543 | 2.0265 | .03185 | 42.182 | .01294 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.459** | **.00188** | **.20057** | **.00161** | **54.457** | **.00082** | **-.00260** | **11.669** | **.00031** |
| Stddev | .136 | .00048 | .00159 | .00049 | .033 | .00128 | .00134 | .002 | .00007 |
| %RSD | .25901 | 25.279 | .79203 | 30.617 | .06116 | 156.78 | 51.446 | .01637 | 21.227 |
| #1 | 52.363 | .00222 | .19945 | .00126 | 54.481 | .00172 | -.00166 | 11.671 | .00035 |
| #2 | 52.556 | .00155 | .20170 | .00196 | 54.434 | -.00009 | -.00355 | 11.668 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34307** | **.00011** | **.00085** | **-.00080** | W **-.07219** | **.00046** | **.02295** | **.00191** |
| Stddev | .00324 | .00052 | .00003 | .00013 | .02806 | .00033 | .00003 | .00492 |
| %RSD | .94368 | 484.02 | 3.9750 | 16.526 | 38.866 | 70.685 | .12929 | 257.26 |
| #1 | .34536 | -.00026 | .00082 | -.00070 | -.05235 | .00023 | .02297 | -.00157 |
| #2 | .34078 | .00048 | .00087 | -.00089 | -.09203 | .00069 | .02293 | .00539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5241.3** | **66326.** | **2845.0** |
| Stddev | 4.6 | 186. | 20.6 |
| %RSD | .08817 | .28052 | .72455 |
| #1 | 5238.0 | 66194. | 2830.4 |
| #2 | 5244.6 | 66457. | 2859.6 |

Sample Name: 280-41723-A-16-A  Acquired: 5/18/2013 12:09:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00049** | **.00289** | **-.00031** | **.02059** | **.02979** | **-.00000** | **-.00202** | **30.355** | **.00024** |
| Stddev | .00034 | .00010 | .00054 | .00057 | .00016 | .00004 | .00060 | .035 | .00015 |
| %RSD | 69.293 | 3.3771 | 173.11 | 2.7804 | .52740 | 1091.5 | 29.642 | .11650 | 63.082 |
| #1 | -.00073 | .00282 | -.00070 | .02099 | .02967 | .00002 | -.00159 | 30.330 | .00013 |
| #2 | -.00025 | .00296 | .00007 | .02018 | .02990 | -.00003 | -.00244 | 30.380 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00099** | **.00157** | **.02218** | **1.6348** | **.03479** | **14.466** | **.06879** | **.00018** |
| Stddev | .00003 | .00003 | .00002 | .00620 | .0318 | .00055 | .010 | .00017 | .00029 |
| %RSD | 10.317 | 3.4030 | 1.4569 | 27.977 | 1.9453 | 1.5867 | .06609 | .24158 | 158.05 |
| #1 | .00032 | .00101 | .00156 | .02657 | 1.6123 | .03440 | 14.459 | .06890 | -.00002 |
| #2 | .00028 | .00097 | .00159 | .01779 | 1.6573 | .03518 | 14.473 | .06867 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.329** | **.00069** | **.18583** | **.00200** | **14.130** | **-.00077** | **-.00014** | **15.698** | **.00010** |
| Stddev | .022 | .00025 | .00010 | .00002 | .040 | .00053 | .00257 | .076 | .00032 |
| %RSD | .09960 | 36.215 | .05417 | .80642 | .28633 | 69.783 | 1834.5 | .48562 | 318.12 |
| #1 | 22.313 | .00087 | .18590 | .00202 | 14.102 | -.00039 | .00168 | 15.644 | -.00013 |
| #2 | 22.345 | .00051 | .18576 | .00199 | 14.159 | -.00114 | -.00196 | 15.752 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13083** | **-.00111** | **.00064** | **-.00078** | **-.03908** | **.00035** | **.00447** | **-.00042** |
| Stddev | .00018 | .00220 | .00019 | .00131 | .00347 | .00052 | .00017 | .00105 |
| %RSD | .13635 | 198.27 | 30.466 | 167.68 | 8.8805 | 150.67 | 3.8132 | 249.49 |
| #1 | .13070 | .00045 | .00078 | -.00170 | -.04154 | .00072 | .00435 | .00032 |
| #2 | .13095 | -.00266 | .00050 | .00014 | -.03663 | -.00002 | .00459 | -.00116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5318.3** | **66971.** | **2883.4** |
| Stddev | 5.4 | 127. | 2.3 |
| %RSD | .10134 | .19025 | .07930 |
| #1 | 5314.5 | 66881. | 2885.0 |
| #2 | 5322.1 | 67061. | 2881.8 |

Sample Name: 280-41723-A-24-A  Acquired: 5/18/2013 12:12:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 172569 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **.04286** | **.00125** | **.01921** | **.01962** | **.00006** | **-.00222** | **25.769** | **.00008** |
| Stddev | .00001 | .00082 | .00016 | .00028 | .00025 | .00008 | .00215 | .111 | .00005 |
| %RSD | 3.6618 | 1.9170 | 13.005 | 1.4822 | 1.2937 | 138.25 | 96.945 | .42992 | 62.244 |
| #1 | -.00023 | .04344 | .00114 | .01941 | .01980 | .00000 | -.00070 | 25.847 | .00012 |
| #2 | -.00024 | .04228 | .00137 | .01901 | .01944 | .00012 | -.00374 | 25.691 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00035** | **.00650** | **.00149** | **.17655** | **1.3576** | **.02944** | **12.544** | **.00362** | **.00039** |
| Stddev | .00016 | .00015 | .00023 | .00175 | .0166 | .00088 | .018 | .00006 | .00068 |
| %RSD | 45.834 | 2.3042 | 15.242 | .99039 | 1.2220 | 3.0056 | .14467 | 1.7643 | 173.99 |
| #1 | -.00023 | .00640 | .00133 | .17532 | 1.3458 | .03007 | 12.532 | .00358 | .00087 |
| #2 | -.00046 | .00661 | .00166 | .17779 | 1.3693 | .02882 | 12.557 | .00367 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.692** | **.00155** | **.19178** | **.00155** | **17.416** | **-.00167** | **-.00070** | **15.513** | **.00059** |
| Stddev | .216 | .00014 | .00036 | .00018 | .039 | .00099 | .00064 | .083 | .00059 |
| %RSD | 1.0444 | 9.3386 | .19015 | 11.697 | .22167 | 59.433 | 92.083 | .53486 | 99.087 |
| #1 | 20.540 | .00165 | .19153 | .00168 | 17.389 | -.00097 | -.00115 | 15.571 | .00101 |
| #2 | 20.845 | .00144 | .19204 | .00142 | 17.443 | -.00237 | -.00024 | 15.454 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10101** | **-.00127** | **.00052** | **.00018** | **-.04813** | **.00031** | **.00471** | **.00246** |
| Stddev | .00014 | .00048 | .00010 | .00163 | .04078 | .00012 | .00014 | .00078 |
| %RSD | .13871 | 37.596 | 19.143 | 899.96 | 84.729 | 39.321 | 2.9254 | 31.760 |
| #1 | .10111 | -.00161 | .00059 | .00134 | -.07696 | .00022 | .00461 | .00302 |
| #2 | .10091 | -.00094 | .00045 | -.00097 | -.01929 | .00039 | .00480 | .00191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5304.7** | **66544.** | **2866.9** |
| Stddev | 22.2 | 98. | 11.8 |
| %RSD | .41912 | .14711 | .41167 |
| #1 | 5320.4 | 66613. | 2858.6 |
| #2 | 5289.0 | 66475. | 2875.3 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 12:14:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **49.636** | **-.00144** | **.00563** | **.00119** | **-.00010** | **1.0061** | **.00425** | **-.00071** | **.00158** | **-.00002** | **.00291** | **49.400** |
| Stddev | .00070 | .086 | .00152 | .00058 | .00007 | .00009 | .0004 | .00028 | .00004 | .00016 | .00008 | .00052 | .118 |
| %RSD | 294.81 | .17338 | 105.24 | 10.314 | 5.6931 | 85.963 | .03532 | 6.6618 | 5.9630 | 10.322 | 393.46 | 17.895 | .23981 |
| #1 | .00026 | 49.697 | -.00037 | .00522 | .00114 | -.00016 | 1.0063 | .00445 | -.00074 | .00146 | .00004 | .00328 | 49.483 |
| #2 | -.00073 | 49.576 | -.00251 | .00604 | .00123 | -.00004 | 1.0058 | .00405 | -.00068 | .00170 | -.00008 | .00254 | 49.316 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15200** | **.00027** | **.00525** | **.00011** | **-.00188** | **252.65** | **.00111** | **.00986** | **.00010** | **5.0246** | **-.00097** | **.00353** | **.01579** |
| Stddev | .02978 | .00063 | .00302 | .00007 | .00014 | .19 | .00010 | .00326 | .00063 | .0036 | .00012 | .00319 | .02064 |
| %RSD | 19.594 | 233.03 | 57.496 | 62.859 | 7.6511 | .07666 | 8.8131 | 33.056 | 665.73 | .07060 | 12.244 | 90.567 | 130.69 |
| #1 | .17306 | -.00018 | .00311 | .00015 | -.00199 | 252.78 | .00104 | .00756 | .00054 | 5.0272 | -.00089 | .00127 | .03039 |
| #2 | .13094 | .00072 | .00738 | .00006 | -.00178 | 252.51 | .00118 | .01217 | -.00035 | 5.0221 | -.00105 | .00578 | .00120 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00187** | **.00032** | **4.9107** | **.00257** | **-.00232** | **9.9770** | **.00014** | **.00353** | **-.02244** |
| Stddev | .00034 | .00017 | .0260 | .00043 | .00146 | .0519 | .00025 | .00012 | .00109 |
| %RSD | 18.228 | 53.037 | .52993 | 16.707 | 63.072 | .51978 | 170.44 | 3.2716 | 4.8404 |
| #1 | .00211 | .00044 | 4.9291 | .00227 | -.00335 | 9.9403 | .00032 | .00361 | -.02167 |
| #2 | .00163 | .00020 | 4.8923 | .00288 | -.00128 | 10.014 | -.00003 | .00345 | -.02321 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5182.5** | **65025.** | **2790.8** |
| Stddev | 20.2 | 617. | 11.8 |
| %RSD | .39013 | .94827 | .42196 |
| #1 | 5168.2 | 64589. | 2782.5 |
| #2 | 5196.8 | 65461. | 2799.1 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 12:17:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49655** | **.50628** | **1.0036** | **.50047** | **.50060** | **.50185** | **.00076** | **5.0226** | **.49916** | **.50637** | **.50549** | **.50401** | **2.5105** |
| Stddev | .00039 | .00107 | .0043 | .00021 | .00059 | .00082 | .00408 | .0016 | .00024 | .00130 | .00024 | .00173 | .0105 |
| %RSD | .07782 | .21144 | .43152 | .04201 | .11692 | .16286 | 535.34 | .03264 | .04805 | .25713 | .04840 | .34256 | .41660 |
| #1 | .49682 | .50704 | 1.0006 | .50032 | .50101 | .50242 | .00365 | 5.0237 | .49899 | .50545 | .50532 | .50523 | 2.5179 |
| #2 | .49627 | .50553 | 1.0067 | .50062 | .50018 | .50127 | -.00212 | 5.0214 | .49933 | .50729 | .50567 | .50278 | 2.5031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.355** | **1.0312** | **20.251** | **.50231** | **.50705** | **5.2656** | **.51025** | **1.0015** | **1.0088** | **.00930** | **1.0000** | **.98962** | **5.0588** |
| Stddev | .141 | .0024 | .008 | .00076 | .00170 | .0212 | .00113 | .0009 | .0001 | .00224 | .0024 | .00147 | .0004 |
| %RSD | .27363 | .23312 | .04026 | .15120 | .33594 | .40264 | .22151 | .09273 | .01054 | 24.036 | .23957 | .14883 | .00693 |
| #1 | 51.454 | 1.0329 | 20.257 | .50177 | .50585 | 5.2806 | .50945 | 1.0009 | 1.0087 | .01088 | .99831 | .99066 | 5.0586 |
| #2 | 51.255 | 1.0295 | 20.245 | .50284 | .50826 | 5.2507 | .51105 | 1.0022 | 1.0089 | .00772 | 1.0017 | .98858 | 5.0591 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0138** | **.49816** | **.00300** | **.49997** | **1.0062** | **-.04545** | **.50472** | **.50748** | **.49636** |
| Stddev | .0022 | .00035 | .00036 | .00047 | .0032 | .01491 | .00212 | .00143 | .00547 |
| %RSD | .21791 | .07046 | 12.152 | .09429 | .31841 | 32.800 | .42018 | .28201 | 1.1016 |
| #1 | 1.0122 | .49791 | .00274 | .49964 | 1.0039 | -.03491 | .50322 | .50647 | .50023 |
| #2 | 1.0153 | .49841 | .00326 | .50030 | 1.0084 | -.05599 | .50622 | .50849 | .49249 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5271.3** | **66942.** | **2849.8** |
| Stddev | 3.8 | 572. | 2.9 |
| %RSD | .07155 | .85441 | .10308 |
| #1 | 5274.0 | 67346. | 2851.8 |
| #2 | 5268.6 | 66537. | 2847.7 |

Sample Name: CCB Acquired: 5/18/2013 12:19:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00066** | **.00415** | **-.00132** | F **.00489** | **.00056** | **-.00011** | **-.00096** | **-.00451** | **.00017** | **-.00009** | **-.00006** |
| Stddev | .00001 | .00584 | .00191 | .00096 | .00021 | .00001 | .00145 | .00416 | .00020 | .00018 | .00001 |
| %RSD | .85370 | 140.66 | 144.14 | 19.671 | 36.525 | 11.817 | 150.63 | 92.288 | 114.96 | 201.55 | 11.732 |
| #1 | -.00066 | .00002 | -.00267 | .00421 | .00042 | -.00012 | -.00199 | -.00157 | .00003 | .00004 | -.00007 |
| #2 | -.00066 | .00828 | .00003 | .00557 | .00071 | -.00010 | .00006 | -.00745 | .00031 | -.00021 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.00328** | **.10414** | **.00198** | **-.00019** | **.00001** | **.00030** | W **.09771** | **-.00059** | **.00036** | **.00134** |
| Stddev | .00029 | .00031 | .04731 | .00086 | .00264 | .00001 | .00015 | .00181 | .00014 | .00101 | .00028 |
| %RSD | 36.191 | 9.4273 | 45.432 | 43.753 | 1381.0 | 64.630 | 47.759 | 1.8549 | 23.036 | 278.49 | 20.825 |
| #1 | .00101 | .00350 | .13760 | .00259 | -.00206 | .00000 | .00020 | .09643 | -.00049 | -.00035 | .00154 |
| #2 | .00060 | .00307 | .07069 | .00137 | .00168 | .00001 | .00041 | .09899 | -.00068 | .00108 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .09160 | | | |
| Low Limit | | | | | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01999** | **.00072** | **-.00334** | **.02004** | **-.00001** | **.00015** | **-.00093** | **.00009** | **-.00073** | **-.02309** | **.00026** |
| Stddev | .01817 | .00004 | .00257 | .00164 | .00059 | .00010 | .00089 | .00040 | .00106 | .00996 | .00027 |
| %RSD | 90.896 | 6.1012 | 77.032 | 8.1609 | 5619.2 | 65.679 | 95.085 | 431.42 | 144.71 | 43.127 | 104.26 |
| #1 | .00714 | .00069 | -.00152 | .01888 | -.00043 | .00008 | -.00031 | -.00019 | -.00148 | -.01605 | .00007 |
| #2 | .03283 | .00075 | -.00516 | .02120 | .00040 | .00023 | -.00156 | .00038 | .00002 | -.03013 | .00046 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00299** | **.00209** |
| Stddev | .00015 | .00126 |
| %RSD | 4.9458 | 60.458 |
| #1 | .00288 | .00298 |
| #2 | .00309 | .00119 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5273.4** | **66591.** | **2816.7** |
| Stddev | 3.0 | 159. | .6 |
| %RSD | .05762 | .23858 | .02087 |
| #1 | 5271.3 | 66703. | 2817.1 |
| #2 | 5275.6 | 66479. | 2816.3 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 12:21:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00951** | **.11201** | **.01341** | **.10443** | **.01160** | **.00100** | **.10416** | W **.25796** | **.00534** | **.01034** | **.01030** |
| Stddev | .00009 | .00042 | .00248 | .00024 | .00086 | .00005 | .00016 | .00712 | .00028 | .00013 | .00005 |
| %RSD | .94847 | .37519 | 18.502 | .23149 | 7.3734 | 4.6271 | .15226 | 2.7616 | 5.3327 | 1.2739 | .47700 |
| #1 | .00957 | .11231 | .01165 | .10461 | .01100 | .00103 | .10427 | .25292 | .00514 | .01043 | .01034 |
| #2 | .00944 | .11172 | .01516 | .10426 | .01221 | .00097 | .10404 | .26300 | .00554 | .01025 | .01027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .20000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01663** | **.11200** | **3.2519** | **.01180** | **.23677** | **.01071** | **.02000** | W **1.2352** | **.04145** | **2.9433** | **.00977** |
| Stddev | .00025 | .00145 | .0444 | .00141 | .00091 | .00010 | .00024 | .0133 | .00041 | .0018 | .00133 |
| %RSD | 1.4920 | 1.2976 | 1.3647 | 11.978 | .38628 | .96246 | 1.1970 | 1.0742 | .99732 | .05946 | 13.578 |
| #1 | .01645 | .11097 | 3.2205 | .01080 | .23741 | .01064 | .01983 | 1.2258 | .04174 | 2.9420 | .01071 |
| #2 | .01680 | .11303 | 3.2833 | .01280 | .23612 | .01079 | .02017 | 1.2446 | .04115 | 2.9445 | .00883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03008** | **.00923** | **.01626** | **.54943** | **.10367** | **.01061** | **.01445** | **.01031** | **.01546** | F **.03858** | **.01046** |
| Stddev | .00242 | .00012 | .00270 | .01093 | .00059 | .00011 | .00247 | .00006 | .00089 | .00627 | .00008 |
| %RSD | 8.0570 | 1.2499 | 16.621 | 1.9893 | .57035 | .99079 | 17.093 | .55221 | 5.7680 | 16.252 | .76563 |
| #1 | .03180 | .00914 | .01817 | .54170 | .10325 | .01053 | .01620 | .01035 | .01609 | .04301 | .01041 |
| #2 | .02837 | .00931 | .01434 | .55716 | .10409 | .01068 | .01270 | .01027 | .01483 | .03414 | .01052 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02367** | **.01632** |
| Stddev | .00022 | .00268 |
| %RSD | .93572 | 16.447 |
| #1 | .02351 | .01822 |
| #2 | .02382 | .01443 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5294.7** | **66532.** | **2828.8** |
| Stddev | 13.2 | 79. | 23.6 |
| %RSD | .24882 | .11935 | .83332 |
| #1 | 5285.4 | 66476. | 2845.5 |
| #2 | 5304.0 | 66589. | 2812.2 |

Sample Name: MB 280-174056/1-A Acquired: 5/18/2013 12:24:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q3 Custom ID2: Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | **.01136** | **-.00032** | **.00438** | **.00025** | **.00011** | **-.00088** | **.05294** | **-.00010** |
| Stddev | .00032 | .00009 | .00052 | .00046 | .00036 | .00009 | .00430 | .00183 | .00007 |
| %RSD | 61.884 | .82667 | 162.03 | 10.603 | 141.60 | 76.587 | 490.87 | 3.4639 | 71.466 |
| #1 | -.00074 | .01142 | -.00069 | .00405 | .00051 | .00018 | -.00392 | .05165 | -.00005 |
| #2 | -.00029 | .01129 | .00005 | .00471 | -.00000 | .00005 | .00216 | .05424 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00000** | **.00092** | **.02677** | **.08313** | **.00045** | **.02328** | **.00034** | **.00042** |
| Stddev | .00033 | .00023 | .00012 | .00613 | .03075 | .00007 | .00003 | .00009 | .00005 |
| %RSD | 130.40 | 9200.1 | 12.694 | 22.902 | 36.989 | 15.619 | .14544 | 26.045 | 10.985 |
| #1 | -.00002 | .00016 | .00084 | .02244 | .10488 | .00050 | .02330 | .00028 | .00039 |
| #2 | -.00048 | -.00016 | .00100 | .03111 | .06139 | .00040 | .02326 | .00040 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15761** | **-.00037** | F **.26380** | **.00021** | **.02565** | **-.00065** | **.00034** | **.04797** | **.00135** |
| Stddev | .01913 | .00059 | .00063 | .00108 | .00195 | .00175 | .00123 | .00135 | .00039 |
| %RSD | 12.139 | 160.14 | .23786 | 522.32 | 7.6154 | 268.95 | 358.05 | 2.8066 | 28.964 |
| #1 | .17114 | -.00079 | .26336 | -.00055 | .02427 | -.00189 | -.00053 | .04893 | .00107 |
| #2 | .14408 | .00005 | .26425 | .00097 | .02703 | .00059 | .00122 | .04702 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **-.00050** | **.00039** | **.00069** | **-.01683** | **.00029** | **.00275** | **.00018** |
| Stddev | .00020 | .00266 | .00004 | .00120 | .02262 | .00087 | .00021 | .00237 |
| %RSD | 32.597 | 532.40 | 9.2757 | 174.13 | 134.43 | 296.56 | 7.5190 | 1322.9 |
| #1 | .00077 | .00138 | .00041 | -.00016 | -.03282 | .00090 | .00260 | .00186 |
| #2 | .00048 | -.00238 | .00036 | .00154 | -.00083 | -.00032 | .00289 | -.00150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5369.3** | **67908.** | **2865.4** |
| Stddev | 6.4 | 151. | 8.0 |
| %RSD | .11866 | .22185 | .28009 |
| #1 | 5364.8 | 67801. | 2871.1 |
| #2 | 5373.8 | 68014. | 2859.7 |

Sample Name: LCS 280-174056/2-A Acquired: 5/18/2013 12:26:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q3 Custom ID2: Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05278** | **2.0246** | **1.0316** | **1.0413** | **2.0636** | **.05169** | **2.0862** | **51.266** | **.10606** |
| Stddev | .00075 | .0004 | .0012 | .0008 | .0079 | .00001 | .0062 | .258 | .00020 |
| %RSD | 1.4235 | .01987 | .11714 | .07287 | .38480 | .01815 | .29873 | .50384 | .19095 |
| #1 | .05331 | 2.0249 | 1.0307 | 1.0408 | 2.0693 | .05170 | 2.0906 | 51.449 | .10592 |
| #2 | .05225 | 2.0243 | 1.0324 | 1.0418 | 2.0580 | .05169 | 2.0818 | 51.084 | .10621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51071** | **.20832** | **.25851** | **1.0640** | **53.561** | **1.0627** | **51.779** | **.50953** | **1.0508** |
| Stddev | .00032 | .00013 | .00090 | .0076 | .357 | .0081 | .042 | .00117 | .0009 |
| %RSD | .06273 | .06281 | .34996 | .71155 | .66657 | .76650 | .08031 | .23027 | .08505 |
| #1 | .51094 | .20841 | .25787 | 1.0693 | 53.813 | 1.0684 | 51.750 | .50870 | 1.0514 |
| #2 | .51048 | .20822 | .25915 | 1.0586 | 53.308 | 1.0569 | 51.809 | .51036 | 1.0502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.911** | **.51332** | **10.774** | **.51282** | **.00740** | **.51885** | **2.0747** | **10.577** | **2.0735** |
| Stddev | .343 | .00007 | .007 | .00327 | .00367 | .00263 | .0020 | .026 | .0012 |
| %RSD | .64798 | .01384 | .06738 | .63825 | 49.504 | .50756 | .09448 | .25024 | .05565 |
| #1 | 53.153 | .51337 | 10.769 | .51051 | .00481 | .52072 | 2.0733 | 10.558 | 2.0726 |
| #2 | 52.668 | .51327 | 10.779 | .51514 | .01000 | .51699 | 2.0761 | 10.596 | 2.0743 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0292** | **1.0091** | **1.0281** | **2.0787** | **2.0309** | **.52034** | **.52064** | **.50212** |
| Stddev | .0042 | .0055 | .0022 | .0040 | .0575 | .00142 | .00023 | .00302 |
| %RSD | .40690 | .54131 | .21879 | .19458 | 2.8307 | .27313 | .04471 | .60206 |
| #1 | 1.0322 | 1.0052 | 1.0265 | 2.0758 | 1.9902 | .51934 | .52047 | .49999 |
| #2 | 1.0263 | 1.0129 | 1.0296 | 2.0815 | 2.0715 | .52135 | .52080 | .50426 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5207.7** | **65492.** | **2821.3** |
| Stddev | 4.9 | 12. | 13.8 |
| %RSD | .09463 | .01767 | .48999 |
| #1 | 5211.2 | 65484. | 2811.6 |
| #2 | 5204.2 | 65500. | 2831.1 |

Sample Name: 280-42099-A-1-A  Acquired: 5/18/2013 12:29:08  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00076** | **.00247** | **.00949** | **2.3929** | **.03695** | **-.00012** | **-.00333** | **88.909** | **.00017** |
| Stddev | .00053 | .00020 | .00185 | .0091 | .00045 | .00002 | .00057 | .019 | .00023 |
| %RSD | 69.768 | 8.0670 | 19.519 | .38109 | 1.2066 | 13.554 | 17.182 | .02170 | 134.51 |
| #1 | -.00114 | .00233 | .01080 | 2.3864 | .03726 | -.00011 | -.00292 | 88.923 | .00001 |
| #2 | -.00039 | .00262 | .00818 | 2.3993 | .03663 | -.00013 | -.00373 | 88.896 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00028** | **.00225** | **.05130** | **12.797** | **.11140** | **13.332** | **1.6715** | **.12100** |
| Stddev | .00002 | .00020 | .00023 | .00395 | .008 | .00222 | .048 | .0077 | .00035 |
| %RSD | 28.398 | 71.508 | 10.010 | 7.6998 | .06463 | 1.9940 | .36069 | .46317 | .29141 |
| #1 | -.00008 | .00042 | .00241 | .04850 | 12.791 | .10982 | 13.298 | 1.6660 | .12075 |
| #2 | -.00005 | .00014 | .00209 | .05409 | 12.803 | .11297 | 13.366 | 1.6769 | .12125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **193.83** | **.00049** | **.14926** | **.00215** | **129.78** | **-.00208** | **-.00318** | **21.543** | **.00019** |
| Stddev | .12 | .00006 | .00284 | .00243 | .38 | .00153 | .00316 | .084 | .00002 |
| %RSD | .06276 | 11.809 | 1.9048 | 113.07 | .29518 | 73.783 | 99.385 | .38813 | 12.619 |
| #1 | 193.92 | .00045 | .15127 | .00043 | 129.51 | -.00099 | -.00094 | 21.484 | .00017 |
| #2 | 193.74 | .00053 | .14725 | .00386 | 130.05 | -.00316 | -.00541 | 21.602 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4464** | **.00041** | **.00042** | **-.00072** | **-.03484** | **.00080** | **.00545** | **.00018** |
| Stddev | .0013 | .00068 | .00037 | .00059 | .00225 | .00037 | .00008 | .00448 |
| %RSD | .08860 | 164.74 | 88.393 | 81.190 | 6.4557 | 47.038 | 1.4487 | 2548.4 |
| #1 | 1.4455 | .00089 | .00016 | -.00114 | -.03643 | .00053 | .00550 | .00335 |
| #2 | 1.4473 | -.00007 | .00069 | -.00031 | -.03325 | .00106 | .00539 | -.00299 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5174.1** | **65416.** | **2824.2** |
| Stddev | 27.2 | 126. | 9.8 |
| %RSD | .52620 | .19211 | .34817 |
| #1 | 5193.4 | 65505. | 2831.1 |
| #2 | 5154.9 | 65327. | 2817.2 |

Sample Name: 280-42099-A-2-A  Acquired: 5/18/2013 12:31:31  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00105** | **.01722** | **.01255** | **2.3820** | **.10135** | **-.00000** | **-.00359** | **68.448** | **.00004** |
| Stddev | .00064 | .00033 | .00326 | .0012 | .00055 | .00014 | .00145 | .183 | .00012 |
| %RSD | 60.502 | 1.9174 | 26.007 | .04915 | .53950 | 3989.3 | 40.553 | .26687 | 297.29 |
| #1 | -.00150 | .01745 | .01024 | 2.3828 | .10174 | .00010 | -.00461 | 68.319 | .00012 |
| #2 | -.00060 | .01698 | .01485 | 2.3812 | .10096 | -.00010 | -.00256 | 68.577 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **.00094** | **.00243** | **.09030** | **11.778** | **.09541** | **11.549** | **.58131** | **.00167** |
| Stddev | .00013 | .00001 | .00022 | .00387 | .037 | .00064 | .005 | .00014 | .00019 |
| %RSD | 47.382 | .66178 | 9.1201 | 4.2805 | .31484 | .66833 | .04508 | .02370 | 11.647 |
| #1 | -.00019 | .00093 | .00259 | .09303 | 11.804 | .09496 | 11.552 | .58140 | .00181 |
| #2 | -.00038 | .00094 | .00228 | .08756 | 11.752 | .09586 | 11.545 | .58121 | .00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **187.58** | **.00134** | **.58025** | **.00415** | **10.096** | **.00034** | **-.00293** | **28.719** | **.00230** |
| Stddev | .01 | .00011 | .00538 | .00124 | .016 | .00073 | .00298 | .172 | .00007 |
| %RSD | .00634 | 7.8350 | .92661 | 29.922 | .15814 | 215.51 | 101.63 | .59994 | 3.0680 |
| #1 | 187.59 | .00127 | .57644 | .00503 | 10.107 | -.00018 | -.00082 | 28.841 | .00235 |
| #2 | 187.57 | .00142 | .58405 | .00328 | 10.085 | .00086 | -.00503 | 28.597 | .00225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2899** | **-.00046** | **.00179** | **.00044** | **-.00264** | **.00239** | **.00740** | **-.00160** |
| Stddev | .0039 | .00158 | .00018 | .00065 | .00836 | .00011 | .00016 | .00342 |
| %RSD | .29859 | 340.27 | 9.9951 | 147.97 | 316.97 | 4.6719 | 2.1569 | 213.03 |
| #1 | 1.2872 | .00065 | .00167 | .00090 | -.00855 | .00231 | .00729 | .00081 |
| #2 | 1.2926 | -.00158 | .00192 | -.00002 | .00328 | .00247 | .00751 | -.00402 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5226.2** | **65847.** | **2849.8** |
| Stddev | 19.7 | 235. | 5.2 |
| %RSD | .37732 | .35737 | .18086 |
| #1 | 5240.1 | 65680. | 2853.4 |
| #2 | 5212.3 | 66013. | 2846.1 |

Sample Name: 280-42099-A-3-A  Acquired: 5/18/2013 12:33:55  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00063** | **.00750** | **.01514** | **2.8352** | **.12556** | **-.00004** | **-.00406** | **57.566** | **.00015** |
| Stddev | .00036 | .00020 | .00055 | .0001 | .00066 | .00007 | .00043 | .428 | .00001 |
| %RSD | 57.154 | 2.6734 | 3.6555 | .00309 | .52340 | 204.18 | 10.700 | .74265 | 4.9964 |
| #1 | -.00038 | .00736 | .01553 | 2.8353 | .12602 | .00002 | -.00437 | 57.264 | .00016 |
| #2 | -.00089 | .00765 | .01475 | 2.8352 | .12509 | -.00009 | -.00375 | 57.869 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.00107** | **.00155** | **.19326** | **11.886** | **.11091** | **9.8003** | **1.4097** | **.00617** |
| Stddev | .00000 | .00019 | .00009 | .00417 | .053 | .00398 | .0028 | .0013 | .00003 |
| %RSD | .11417 | 17.880 | 5.6665 | 2.1585 | .44897 | 3.5916 | .02860 | .09373 | .45223 |
| #1 | -.00024 | .00094 | .00149 | .19621 | 11.848 | .10810 | 9.8022 | 1.4088 | .00619 |
| #2 | -.00024 | .00121 | .00161 | .19032 | 11.923 | .11373 | 9.7983 | 1.4107 | .00615 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **196.10** | **.00088** | **.52271** | **.00347** | **5.2966** | **.00048** | **-.00059** | **29.360** | **.00061** |
| Stddev | 1.40 | .00002 | .00199 | .00006 | .0169 | .00145 | .00106 | .001 | .00051 |
| %RSD | .71144 | 2.8124 | .38008 | 1.5993 | .31816 | 302.96 | 180.86 | .00236 | 83.720 |
| #1 | 195.11 | .00090 | .52411 | .00343 | 5.3085 | -.00054 | -.00134 | 29.360 | .00025 |
| #2 | 197.08 | .00086 | .52130 | .00351 | 5.2847 | .00150 | .00016 | 29.359 | .00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1461** | **-.00176** | **.00153** | **.00029** | **-.03250** | **.01170** | **.00366** | **-.00267** |
| Stddev | .0084 | .00040 | .00046 | .00166 | .02921 | .00055 | .00017 | .00012 |
| %RSD | .73012 | 22.678 | 29.736 | 562.92 | 89.876 | 4.7426 | 4.5116 | 4.4415 |
| #1 | 1.1402 | -.00148 | .00121 | .00147 | -.05315 | .01131 | .00378 | -.00276 |
| #2 | 1.1520 | -.00204 | .00185 | -.00088 | -.01185 | .01209 | .00355 | -.00259 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5207.0** | **66223.** | **2834.4** |
| Stddev | 21.7 | 132. | 18.0 |
| %RSD | .41645 | .19973 | .63388 |
| #1 | 5222.3 | 66317. | 2847.1 |
| #2 | 5191.7 | 66130. | 2821.7 |

Sample Name: sd 280-42099-A-3-A@5 Acquired: 5/18/2013 12:36:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q3 Custom ID2: Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **.00285** | **.00103** | **.56550** | **.02471** | **-.00005** | **-.00042** | **11.575** | **.00023** |
| Stddev | .00072 | .00012 | .00006 | .00233 | .00016 | .00001 | .00237 | .080 | .00009 |
| %RSD | 120.98 | 4.2049 | 5.9347 | .41146 | .64627 | 24.460 | 563.97 | .68766 | 39.006 |
| #1 | -.00009 | .00277 | .00107 | .56714 | .02459 | -.00004 | -.00209 | 11.631 | .00030 |
| #2 | -.00110 | .00294 | .00098 | .56385 | .02482 | -.00006 | .00125 | 11.519 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.00030** | **.00115** | **.04921** | **2.4850** | **.02207** | **1.9794** | **.28240** | **.00101** |
| Stddev | .00018 | .00028 | .00029 | .00480 | .0348 | .00042 | .0009 | .00010 | .00028 |
| %RSD | 235.91 | 91.077 | 25.448 | 9.7547 | 1.3996 | 1.9184 | .04371 | .03682 | 27.847 |
| #1 | .00005 | .00050 | .00095 | .05260 | 2.5096 | .02237 | 1.9800 | .28247 | .00121 |
| #2 | -.00020 | .00011 | .00136 | .04581 | 2.4604 | .02177 | 1.9787 | .28232 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **39.265** | **-.00040** | **.10314** | **.00047** | **1.0246** | **-.00030** | **-.00179** | **5.7728** | **.00015** |
| Stddev | .133 | .00019 | .00339 | .00245 | .0000 | .00174 | .00301 | .0821 | .00048 |
| %RSD | .33924 | 46.692 | 3.2873 | 522.36 | .00015 | 573.60 | 168.21 | 1.4216 | 330.73 |
| #1 | 39.360 | -.00054 | .10554 | .00220 | 1.0246 | .00092 | .00034 | 5.8308 | -.00019 |
| #2 | 39.171 | -.00027 | .10074 | -.00126 | 1.0246 | -.00153 | -.00392 | 5.7148 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22856** | **-.00010** | **.00014** | **.00186** | **-.04453** | **.00304** | **.00422** | **-.00315** |
| Stddev | .00186 | .00041 | .00041 | .00015 | .00357 | .00012 | .00032 | .00136 |
| %RSD | .81436 | 398.36 | 289.67 | 8.3291 | 8.0145 | 3.8966 | 7.5203 | 43.303 |
| #1 | .22987 | .00018 | -.00015 | .00175 | -.04706 | .00312 | .00445 | -.00218 |
| #2 | .22724 | -.00039 | .00043 | .00196 | -.04201 | .00295 | .00400 | -.00411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5269.0** | **65923.** | **2811.7** |
| Stddev | 31.0 | 15. | 19.2 |
| %RSD | .58810 | .02322 | .68244 |
| #1 | 5247.1 | 65912. | 2798.2 |
| #2 | 5290.9 | 65934. | 2825.3 |

Sample Name: 280-42099-A-3-B MS  Acquired: 5/18/2013 12:38:48  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05242** | **1.9710** | **1.0473** | **3.7759** | **2.1677** | **.05179** | **2.0699** | **106.28** | **.10566** |
| Stddev | .00039 | .0005 | .0046 | .0048 | .0098 | .00028 | .0123 | .72 | .00017 |
| %RSD | .73779 | .02408 | .44224 | .12760 | .45147 | .54603 | .59412 | .68148 | .16021 |
| #1 | .05215 | 1.9706 | 1.0505 | 3.7793 | 2.1746 | .05159 | 2.0786 | 106.79 | .10578 |
| #2 | .05270 | 1.9713 | 1.0440 | 3.7725 | 2.1608 | .05199 | 2.0612 | 105.77 | .10554 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50554** | **.20754** | **.26515** | **1.2186** | **64.794** | **1.1594** | **60.333** | **1.8661** | **1.0529** |
| Stddev | .00040 | .00043 | .00024 | .0010 | .561 | .0060 | .072 | .0005 | .0010 |
| %RSD | .07884 | .20849 | .09093 | .07857 | .86520 | .52124 | .11854 | .02702 | .09854 |
| #1 | .50582 | .20785 | .26532 | 1.2179 | 65.191 | 1.1636 | 60.383 | 1.8665 | 1.0537 |
| #2 | .50526 | .20724 | .26498 | 1.2193 | 64.398 | 1.1551 | 60.282 | 1.8658 | 1.0522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **242.54** | **.50712** | **10.940** | **.50390** | **5.0801** | **.51860** | **1.9801** | **39.241** | **2.0639** |
| Stddev | 1.21 | .00048 | .018 | .00084 | .0092 | .00287 | .0047 | .109 | .0038 |
| %RSD | .49739 | .09391 | .16745 | .16576 | .18111 | .55317 | .23924 | .27724 | .18507 |
| #1 | 243.39 | .50745 | 10.953 | .50331 | 5.0866 | .52063 | 1.9834 | 39.164 | 2.0666 |
| #2 | 241.68 | .50678 | 10.927 | .50449 | 5.0736 | .51657 | 1.9767 | 39.318 | 2.0612 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1311** | **.99166** | **1.0226** | **2.0274** | **2.0641** | **.52921** | **.50977** | **.50364** |
| Stddev | .0138 | .00042 | .0012 | .0030 | .0244 | .00055 | .00043 | .00669 |
| %RSD | .64579 | .04207 | .11512 | .14670 | 1.1839 | .10393 | .08356 | 1.3281 |
| #1 | 2.1408 | .99195 | 1.0234 | 2.0295 | 2.0814 | .52882 | .50947 | .49891 |
| #2 | 2.1214 | .99136 | 1.0218 | 2.0253 | 2.0468 | .52960 | .51008 | .50837 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5130.6** | **64790.** | **2787.3** |
| Stddev | 2.4 | 12. | 30.2 |
| %RSD | .04737 | .01781 | 1.0833 |
| #1 | 5128.9 | 64798. | 2766.0 |
| #2 | 5132.3 | 64782. | 2808.7 |

Sample Name: 280-42099-A-3-C MSD Acquired: 5/18/2013 12:41:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q3 Custom ID2: Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03776** | **1.4434** | **.76789** | **3.7756** | **1.5853** | **.03709** | **1.5123** | **91.743** | **.07687** |
| Stddev | .00095 | .0022 | .00127 | .0026 | .0018 | .00010 | .0007 | .063 | .00002 |
| %RSD | 2.5234 | .14912 | .16591 | .06754 | .11192 | .26640 | .04731 | .06867 | .02213 |
| #1 | .03844 | 1.4419 | .76879 | 3.7738 | 1.5840 | .03702 | 1.5128 | 91.788 | .07686 |
| #2 | .03709 | 1.4449 | .76699 | 3.7774 | 1.5865 | .03716 | 1.5118 | 91.699 | .07689 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36715** | **.14958** | **.18976** | **.84660** | **49.921** | **.86067** | **45.708** | **1.7168** | **1.0351** |
| Stddev | .00086 | .00022 | .00032 | .00409 | .146 | .00053 | .004 | .0007 | .0016 |
| %RSD | .23326 | .14674 | .16958 | .48360 | .29159 | .06187 | .00900 | .04255 | .15804 |
| #1 | .36655 | .14942 | .18953 | .84370 | 50.024 | .86029 | 45.706 | 1.7162 | 1.0363 |
| #2 | .36776 | .14973 | .18998 | .84949 | 49.818 | .86104 | 45.711 | 1.7173 | 1.0340 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **227.45** | **.36890** | **8.1415** | **.36858** | **5.1392** | **.51238** | **1.4259** | **38.923** | **2.0438** |
| Stddev | .89 | .00069 | .0194 | .00030 | .0049 | .00046 | .0021 | .179 | .0041 |
| %RSD | .39203 | .18615 | .23818 | .08160 | .09574 | .08968 | .14635 | .46107 | .20281 |
| #1 | 228.08 | .36841 | 8.1277 | .36837 | 5.1357 | .51270 | 1.4273 | 38.796 | 2.0409 |
| #2 | 226.82 | .36938 | 8.1552 | .36879 | 5.1426 | .51205 | 1.4244 | 39.050 | 2.0467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8389** | **.71868** | **1.0031** | **1.4778** | **1.4749** | **.38362** | **.36844** | **.49576** |
| Stddev | .0020 | .00164 | .0001 | .0046 | .0393 | .00043 | .00046 | .00441 |
| %RSD | .10906 | .22887 | .01237 | .31114 | 2.6653 | .11207 | .12453 | .88960 |
| #1 | 1.8375 | .71984 | 1.0030 | 1.4746 | 1.4471 | .38331 | .36811 | .49888 |
| #2 | 1.8403 | .71752 | 1.0032 | 1.4811 | 1.5027 | .38392 | .36876 | .49264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5098.4** | **65398.** | **2776.5** |
| Stddev | 2.6 | 432. | 6.8 |
| %RSD | .05159 | .66063 | .24341 |
| #1 | 5100.3 | 65093. | 2781.3 |
| #2 | 5096.5 | 65704. | 2771.7 |

Sample Name: pds 280-42099-A-3-A  Acquired: 5/18/2013 12:43:14  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05062** | **1.0046** | **.21806** | **2.9120** | **.22445** | **.05110** | **-.00414** | **76.635** | **.05248** |
| Stddev | .00024 | .0027 | .00553 | .0012 | .00156 | .00021 | .00011 | .089 | .00026 |
| %RSD | .46791 | .26873 | 2.5382 | .04007 | .69402 | .40657 | 2.7534 | .11597 | .49076 |
| #1 | .05079 | 1.0027 | .22198 | 2.9112 | .22335 | .05125 | -.00422 | 76.697 | .05230 |
| #2 | .05045 | 1.0065 | .21415 | 2.9129 | .22555 | .05095 | -.00406 | 76.572 | .05266 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05050** | **.05239** | **.05379** | **1.2189** | **32.867** | **.21833** | **29.600** | **1.4353** | **.06006** |
| Stddev | .00029 | .00015 | .00091 | .0072 | .122 | .00346 | .010 | .0004 | .00005 |
| %RSD | .57390 | .29144 | 1.7002 | .59431 | .37028 | 1.5840 | .03527 | .02982 | .08984 |
| #1 | .05071 | .05250 | .05444 | 1.2240 | 32.953 | .21588 | 29.592 | 1.4356 | .06010 |
| #2 | .05030 | .05228 | .05315 | 1.2138 | 32.781 | .22077 | 29.607 | 1.4350 | .06002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **213.43** | **.05154** | **2.6215** | **.10377** | **5.2625** | **.10570** | **.20185** | **34.437** | **.10587** |
| Stddev | 1.16 | .00026 | .0028 | .00043 | .0101 | .00022 | .00332 | .136 | .00063 |
| %RSD | .54148 | .49865 | .10785 | .41692 | .19256 | .20666 | 1.6448 | .39557 | .59231 |
| #1 | 214.25 | .05136 | 2.6195 | .10408 | 5.2696 | .10585 | .19950 | 34.340 | .10632 |
| #2 | 212.61 | .05172 | 2.6235 | .10347 | 5.2553 | .10554 | .20419 | 34.533 | .10543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1857** | **.19853** | **.05402** | **.20545** | **.49795** | **.06261** | **.21084** | **.04974** |
| Stddev | .0032 | .00280 | .00027 | .00014 | .02534 | .00020 | .00113 | .00136 |
| %RSD | .26755 | 1.4083 | .49082 | .06773 | 5.0895 | .31466 | .53616 | 2.7290 |
| #1 | 1.1880 | .20051 | .05421 | .20555 | .51588 | .06275 | .21004 | .04878 |
| #2 | 1.1835 | .19656 | .05383 | .20536 | .48003 | .06247 | .21164 | .05070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5195.7** | **66050.** | **2830.4** |
| Stddev | 2.2 | 258. | 29.7 |
| %RSD | .04246 | .39070 | 1.0487 |
| #1 | 5197.2 | 66232. | 2809.5 |
| #2 | 5194.1 | 65867. | 2851.4 |

Sample Name: 280-42099-A-4-A Acquired: 5/18/2013 12:45:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q3 Custom ID2: Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00066** | **.00803** | **-.00118** | **.01911** | **.00073** | **-.00004** | **.00123** | **.07942** | **.00016** |
| Stddev | .00017 | .00026 | .00143 | .00086 | .00062 | .00002 | .00104 | .00215 | .00000 |
| %RSD | 25.551 | 3.2641 | 121.58 | 4.4999 | 84.914 | 56.887 | 84.650 | 2.7081 | 2.5643 |
| #1 | -.00078 | .00784 | -.00017 | .01971 | .00029 | -.00003 | .00050 | .08094 | .00015 |
| #2 | -.00054 | .00821 | -.00219 | .01850 | .00117 | -.00006 | .00197 | .07790 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **-.00004** | **.00094** | **.02139** | **.27923** | **-.00092** | **.01622** | **.00049** | **.00032** |
| Stddev | .00024 | .00003 | .00039 | .00468 | .04163 | .00042 | .00343 | .00000 | .00013 |
| %RSD | 615.93 | 62.438 | 41.227 | 21.893 | 14.909 | 44.931 | 21.163 | .06210 | 40.426 |
| #1 | .00013 | -.00006 | .00121 | .01808 | .24980 | -.00063 | .01864 | .00049 | .00042 |
| #2 | -.00021 | -.00002 | .00066 | .02471 | .30867 | -.00122 | .01379 | .00049 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29636** | **-.00049** | **.27634** | **.00200** | **.04263** | **-.00094** | **-.00057** | **.05139** | **.00139** |
| Stddev | .01782 | .00026 | .00116 | .00110 | .00118 | .00064 | .00153 | .00864 | .00069 |
| %RSD | 6.0114 | 53.233 | .41843 | 55.003 | 2.7695 | 67.944 | 265.96 | 16.809 | 49.852 |
| #1 | .30896 | -.00067 | .27716 | .00122 | .04346 | -.00139 | .00051 | .04528 | .00090 |
| #2 | .28376 | -.00030 | .27552 | .00277 | .04179 | -.00049 | -.00165 | .05750 | .00188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00024** | **.00020** | **-.00055** | **-.02878** | **.00009** | **.00363** | **.00101** |
| Stddev | .00005 | .00065 | .00001 | .00098 | .03827 | .00033 | .00019 | .00202 |
| %RSD | 19.395 | 271.08 | 4.3812 | 179.47 | 132.98 | 372.64 | 5.2680 | 200.24 |
| #1 | .00031 | .00070 | .00021 | .00015 | -.05584 | .00032 | .00349 | .00243 |
| #2 | .00023 | -.00022 | .00020 | -.00124 | -.00172 | -.00015 | .00376 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5354.3** | **67663.** | **2837.7** |
| Stddev | 12.4 | 243. | 3.7 |
| %RSD | .23136 | .35911 | .12880 |
| #1 | 5345.5 | 67491. | 2840.3 |
| #2 | 5363.0 | 67835. | 2835.1 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 12:48:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00075** | **50.073** | **-.00088** | **.01537** | **.00206** | **-.00004** | **1.0075** | **.07758** | **-.00069** | **.00199** | **-.00019** | **.00277** | **49.753** |
| Stddev | .00090 | .175 | .00157 | .00055 | .00035 | .00014 | .0044 | .00223 | .00003 | .00014 | .00004 | .00002 | .096 |
| %RSD | 120.00 | .34870 | 179.30 | 3.5742 | 17.066 | 410.26 | .43976 | 2.8807 | 4.2530 | 7.1847 | 21.316 | .56113 | .19304 |
| #1 | -.00139 | 50.196 | .00023 | .01576 | .00181 | .00007 | 1.0106 | .07916 | -.00066 | .00209 | -.00022 | .00278 | 49.821 |
| #2 | -.00011 | 49.949 | -.00199 | .01498 | .00231 | -.00014 | 1.0043 | .07600 | -.00071 | .00189 | -.00017 | .00275 | 49.685 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28629** | **.00016** | **.03024** | **.00107** | **-.00179** | **255.34** | **.00064** | **.01593** | **.00346** | **5.0757** | **.00113** | **.00210** | **.03234** |
| Stddev | .01322 | .00224 | .00050 | .00008 | .00050 | 1.59 | .00025 | .00322 | .00128 | .0054 | .00084 | .00106 | .00590 |
| %RSD | 4.6172 | 1384.6 | 1.6557 | 7.4788 | 27.823 | .62278 | 38.306 | 20.228 | 36.965 | .10678 | 74.316 | 50.720 | 18.229 |
| #1 | .29564 | .00174 | .02988 | .00113 | -.00144 | 256.47 | .00047 | .01821 | .00255 | 5.0795 | .00172 | .00285 | .02817 |
| #2 | .27694 | -.00142 | .03059 | .00101 | -.00214 | 254.22 | .00081 | .01365 | .00436 | 5.0719 | .00054 | .00134 | .03651 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00121** | **.00149** | **4.9401** | **.00265** | **.00074** | **10.153** | **.00062** | **.00313** | **-.01930** |
| Stddev | .00001 | .00013 | .0067 | .00020 | .00186 | .049 | .00001 | .00002 | .00290 |
| %RSD | .52107 | 8.9483 | .13662 | 7.6464 | 249.94 | .48138 | 2.3532 | .61633 | 15.036 |
| #1 | .00122 | .00139 | 4.9449 | .00250 | -.00057 | 10.188 | .00063 | .00315 | -.02135 |
| #2 | .00121 | .00158 | 4.9353 | .00279 | .00206 | 10.119 | .00061 | .00312 | -.01724 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5171.1** | **65330.** | **2785.9** |
| Stddev | 2.8 | 79. | 29.0 |
| %RSD | .05486 | .12070 | 1.0413 |
| #1 | 5169.1 | 65386. | 2765.4 |
| #2 | 5173.1 | 65275. | 2806.4 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 12:50:27 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49680** | **.51333** | **1.0079** | **.51011** | **.49630** | **.49788** | **.00126** | **5.0983** | **.50021** | **.50696** | **.50803** | **.50340** | **2.5423** |
| Stddev | .00183 | .00005 | .0073 | .00201 | .00053 | .00220 | .00025 | .0204 | .00223 | .00204 | .00158 | .00038 | .0055 |
| %RSD | .36935 | .00963 | .72029 | .39444 | .10751 | .44170 | 20.048 | .39967 | .44568 | .40315 | .31090 | .07509 | .21660 |
| #1 | .49550 | .51330 | 1.0028 | .50869 | .49668 | .49943 | .00144 | 5.0839 | .49864 | .50552 | .50691 | .50366 | 2.5462 |
| #2 | .49810 | .51337 | 1.0130 | .51154 | .49592 | .49632 | .00108 | 5.1127 | .50179 | .50841 | .50915 | .50313 | 2.5384 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.482** | **1.0319** | **20.369** | **.50348** | **.51055** | **5.4188** | **.51297** | **1.0062** | **1.0139** | **.01958** | **1.0022** | **.99298** | **5.0902** |
| Stddev | .058 | .0027 | .021 | .00121 | .00129 | .0083 | .00095 | .0081 | .0075 | .00144 | .0011 | .00029 | .0356 |
| %RSD | .11250 | .25647 | .10247 | .23982 | .25278 | .15269 | .18424 | .80903 | .73963 | 7.3727 | .10793 | .02919 | .69918 |
| #1 | 51.523 | 1.0338 | 20.354 | .50263 | .50963 | 5.4247 | .51230 | 1.0005 | 1.0086 | .01856 | 1.0014 | .99318 | 5.0651 |
| #2 | 51.441 | 1.0301 | 20.384 | .50434 | .51146 | 5.4130 | .51364 | 1.0120 | 1.0192 | .02061 | 1.0030 | .99277 | 5.1154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0198** | **.49474** | **.00133** | **.49909** | **1.0130** | **-.02046** | **.50731** | **.51552** | **.49283** |
| Stddev | .0004 | .00033 | .00191 | .00155 | .0019 | .02683 | .00008 | .00016 | .00324 |
| %RSD | .04067 | .06609 | 143.71 | .31018 | .18645 | 131.16 | .01564 | .03082 | .65830 |
| #1 | 1.0201 | .49451 | -.00002 | .49800 | 1.0116 | -.00148 | .50725 | .51563 | .49054 |
| #2 | 1.0195 | .49497 | .00268 | .50019 | 1.0143 | -.03943 | .50736 | .51541 | .49513 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5224.2** | **65555.** | **2756.5** |
| Stddev | 3.7 | 67. | 7.7 |
| %RSD | .07173 | .10196 | .28077 |
| #1 | 5221.5 | 65508. | 2751.0 |
| #2 | 5226.8 | 65603. | 2761.9 |

Sample Name: CCB Acquired: 5/18/2013 12:52:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00123** | **.00637** | **.00089** | F **.01100** | W **.00097** | **-.00005** | **.00018** | W **.04626** | **.00039** | **.00007** | **-.00014** |
| Stddev | .00024 | .00057 | .00080 | .00038 | .00016 | .00002 | .00174 | .00345 | .00006 | .00010 | .00016 |
| %RSD | 19.853 | 8.9987 | 90.126 | 3.4790 | 16.828 | 37.922 | 991.21 | 7.4525 | 16.228 | 137.57 | 108.76 |
| #1 | -.00140 | .00677 | .00032 | .01073 | .00086 | -.00003 | -.00106 | .04870 | .00043 | .00000 | -.00026 |
| #2 | -.00106 | .00596 | .00146 | .01127 | .00109 | -.00006 | .00141 | .04382 | .00034 | .00015 | -.00003 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | .03450 | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **.00873** | **.23341** | **-.00048** | F **.02154** | F **.00076** | **.00038** | F **.29666** | **-.00022** | **.00503** | **.00195** |
| Stddev | .00011 | .00764 | .00992 | .00083 | .00119 | .00004 | .00023 | .01208 | .00010 | .00277 | .00236 |
| %RSD | 9.3802 | 87.480 | 4.2498 | 172.35 | 5.5370 | 5.6168 | 60.009 | 4.0725 | 44.712 | 55.060 | 120.86 |
| #1 | .00110 | .00333 | .24043 | -.00107 | .02238 | .00079 | .00054 | .30520 | -.00015 | .00698 | .00028 |
| #2 | .00126 | .01413 | .22640 | .00011 | .02069 | .00073 | .00022 | .28811 | -.00029 | .00307 | .00362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .02140 | .00051 | | .10000 | | | |
| Low Limit | | | | | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01565** | **-.00104** | **-.00302** | **.01213** | **.00105** | F **.00094** | **.00183** | **.00019** | **.00019** | **-.04582** | W **.00125** |
| Stddev | .00102 | .00273 | .00008 | .01439 | .00061 | .00020 | .00125 | .00040 | .00203 | .01944 | .00006 |
| %RSD | 6.5174 | 264.03 | 2.5211 | 118.60 | 58.399 | 21.391 | 68.191 | 208.45 | 1058.6 | 42.437 | 4.6381 |
| #1 | .01637 | -.00297 | -.00307 | .02230 | .00148 | .00079 | .00271 | -.00009 | -.00124 | -.05957 | .00121 |
| #2 | .01493 | .00090 | -.00297 | .00196 | .00061 | .00108 | .00095 | .00047 | .00163 | -.03207 | .00129 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | .00060 | | | | | .00111 |
| Low Limit | | | | | | -.00060 | | | | | -.00111 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00292** | **-.00224** |
| Stddev | .00000 | .00360 |
| %RSD | .12478 | 160.70 |
| #1 | .00292 | .00031 |
| #2 | .00292 | -.00479 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5184.4** | **64722.** | **2736.5** |
| Stddev | 1.3 | 223. | 15.2 |
| %RSD | .02460 | .34493 | .55427 |
| #1 | 5183.5 | 64564. | 2747.2 |
| #2 | 5185.3 | 64880. | 2725.7 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 12:55:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00896** | **.10503** | **.01414** | **.10961** | **.01142** | **.00089** | **.10710** | W **.24230** | **.00524** | **.01066** | **.01020** |
| Stddev | .00057 | .00015 | .00131 | .00045 | .00005 | .00012 | .00134 | .00999 | .00004 | .00030 | .00034 |
| %RSD | 6.3442 | .14496 | 9.2808 | .40734 | .44953 | 13.593 | 1.2531 | 4.1212 | .76120 | 2.7930 | 3.3356 |
| #1 | .00855 | .10514 | .01507 | .10929 | .01139 | .00080 | .10615 | .24937 | .00521 | .01045 | .00996 |
| #2 | .00936 | .10492 | .01322 | .10992 | .01146 | .00097 | .10805 | .23524 | .00527 | .01087 | .01044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .20000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01632** | **.11694** | **3.4834** | **.00939** | **.22549** | **.01082** | **.02079** | F **1.3211** | **.04198** | **2.9707** | **.00908** |
| Stddev | .00009 | .00271 | .0052 | .00546 | .00611 | .00016 | .00022 | .0111 | .00019 | .0078 | .00010 |
| %RSD | .57465 | 2.3149 | .14837 | 58.168 | 2.7082 | 1.4995 | 1.0725 | .84076 | .45758 | .26435 | 1.0965 |
| #1 | .01638 | .11502 | 3.4870 | .00553 | .22981 | .01094 | .02095 | 1.3290 | .04185 | 2.9651 | .00901 |
| #2 | .01625 | .11885 | 3.4797 | .01325 | .22118 | .01071 | .02063 | 1.3133 | .04212 | 2.9762 | .00915 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00459** | **.01083** | **.01565** | **.54023** | **.10474** | **.01106** | **.01504** | **.01034** | **.01478** | **.06173** | **.01098** |
| Stddev | .00245 | .00167 | .00187 | .02143 | .00052 | .00010 | .00259 | .00023 | .00036 | .02538 | .00029 |
| %RSD | 53.386 | 15.379 | 11.966 | 3.9665 | .49975 | .94305 | 17.242 | 2.2260 | 2.4212 | 41.112 | 2.6855 |
| #1 | .00632 | .01201 | .01432 | .55539 | .10437 | .01114 | .01687 | .01050 | .01503 | .04379 | .01077 |
| #2 | .00285 | .00966 | .01697 | .52508 | .10511 | .01099 | .01320 | .01017 | .01453 | .07968 | .01119 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02399** | **.01562** |
| Stddev | .00038 | .00097 |
| %RSD | 1.5984 | 6.2385 |
| #1 | .02426 | .01631 |
| #2 | .02372 | .01493 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5240.9** | **65750.** | **2736.0** |
| Stddev | 16.9 | 163. | 2.5 |
| %RSD | .32219 | .24738 | .09304 |
| #1 | 5252.8 | 65635. | 2734.2 |
| #2 | 5228.9 | 65865. | 2737.8 |

Sample Name: 280-42229-A-1-A@5 Acquired: 5/18/2013 12:57:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00076** | **13.853** | **.00213** | **.00771** | **.10982** | **-.00002** | W **-.01233** | **13.529** | **.00027** |
| Stddev | .00006 | .023 | .00088 | .00024 | .00008 | .00010 | .00065 | .055 | .00002 |
| %RSD | 8.4954 | .16593 | 41.350 | 3.1181 | .07399 | 444.93 | 5.2543 | .40590 | 8.0798 |
| #1 | -.00072 | 13.869 | .00276 | .00788 | .10988 | .00005 | -.01279 | 13.567 | .00025 |
| #2 | -.00081 | 13.837 | .00151 | .00754 | .10977 | -.00010 | -.01187 | 13.490 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02813** | **.01458** | **.03892** | **64.256** | **2.3340** | **.01138** | **13.125** | **.88738** | **.00033** |
| Stddev | .00027 | .00000 | .00013 | .169 | .0226 | .00102 | .119 | .00727 | .00024 |
| %RSD | .97477 | .00453 | .32467 | .26251 | .96980 | 8.9260 | .90803 | .81904 | 72.863 |
| #1 | .02794 | .01458 | .03901 | 64.375 | 2.3180 | .01066 | 13.209 | .89252 | .00051 |
| #2 | .02833 | .01458 | .03883 | 64.136 | 2.3500 | .01209 | 13.041 | .88224 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.79900** | **.02805** | **2.7791** | **.00820** | **.21947** | **.00287** | **.00024** | **.45766** | **.00666** |
| Stddev | .00415 | .00046 | .0183 | .00070 | .00021 | .00155 | .00179 | .02688 | .00093 |
| %RSD | .51967 | 1.6428 | .65829 | 8.5600 | .09670 | 53.940 | 742.11 | 5.8740 | 13.941 |
| #1 | .79606 | .02838 | 2.7661 | .00870 | .21932 | .00178 | .00151 | .47667 | .00731 |
| #2 | .80193 | .02773 | 2.7920 | .00771 | .21962 | .00396 | -.00103 | .43865 | .00600 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05238** | **.01791** | **5.5137** | **-.00285** | **-.03892** | **.16469** | **.12244** | **.05853** |
| Stddev | .00017 | .00291 | .0428 | .00026 | .01887 | .00188 | .00158 | .00618 |
| %RSD | .32337 | 16.246 | .77639 | 9.1073 | 48.478 | 1.1411 | 1.2891 | 10.555 |
| #1 | .05250 | .01997 | 5.5439 | -.00303 | -.05227 | .16601 | .12356 | .06290 |
| #2 | .05226 | .01585 | 5.4834 | -.00267 | -.02558 | .16336 | .12132 | .05416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5398.3** | **67513.** | **2882.9** |
| Stddev | .1 | 526. | 11.4 |
| %RSD | .00131 | .77879 | .39395 |
| #1 | 5398.2 | 67141. | 2874.9 |
| #2 | 5398.3 | 67884. | 2890.9 |

Sample Name: sd 42229-A-1-A@25 Acquired: 5/18/2013 12:59:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00143** | W **2.7242** | F **2.8335** | **.00048** | **.00590** | **.02291** | **-.00001** | **-.00281** | **2.7855** |
| Stddev | .00035 | .0050 | .0453 | .00056 | .00008 | .00003 | .00004 | .00005 | .0239 |
| %RSD | 24.539 | .18486 | 1.5991 | 114.84 | 1.3114 | .11992 | 478.04 | 1.6421 | .85880 |
| #1 | -.00167 | 2.7206 | 2.8655 | .00009 | .00585 | .02289 | -.00004 | -.00284 | 2.8024 |
| #2 | -.00118 | 2.7277 | 2.8015 | .00088 | .00595 | .02293 | .00002 | -.00278 | 2.7686 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.7000 | 1000.0 | | | | | | |
| Low Limit | | -.05000 | 3.0000 | | | | | | |

| Elem | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.802 {447} | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00553** | **.00282** | **.00805** | **13.506** | **.63888** | **.00115** | **2.6780** | **.18082** |
| Stddev | .00025 | .00000 | .00006 | .00021 | .071 | .04480 | .00191 | .0020 | .00057 |
| %RSD | 581.76 | .00784 | 2.2009 | 2.6368 | .52380 | 7.0127 | 165.87 | .07635 | .31406 |
| #1 | -.00013 | .00553 | .00286 | .00820 | 13.556 | .67056 | .00251 | 2.6765 | .18042 |
| #2 | .00022 | .00553 | .00277 | .00790 | 13.456 | .60720 | -.00020 | 2.6794 | .18123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 202.030 {467} | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **.22029** | **.00531** | **.56264** | **.00225** | **.04693** | **-.00104** | **.00295** | **.09889** |
| Stddev | .00005 | .00469 | .00028 | .00323 | .00058 | .00360 | .00301 | .00213 | .00453 |
| %RSD | 26.941 | 2.1272 | 5.2639 | .57493 | 25.629 | 7.6791 | 287.62 | 72.264 | 4.5759 |
| #1 | -.00021 | .21698 | .00551 | .56493 | .00184 | .04947 | -.00317 | .00446 | .10209 |
| #2 | -.00014 | .22360 | .00512 | .56036 | .00265 | .04438 | .00108 | .00144 | .09569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00108** | **.01076** | **.00188** | **1.1078** | **-.00164** | **-.03833** | **.03423** | **.02838** | **.01298** |
| Stddev | .00062 | .00023 | .00111 | .0024 | .00210 | .01644 | .00031 | .00058 | .00036 |
| %RSD | 57.405 | 2.1192 | 59.105 | .22060 | 127.95 | 42.879 | .91582 | 2.0490 | 2.8035 |
| #1 | .00152 | .01092 | .00266 | 1.1061 | -.00313 | -.04995 | .03401 | .02797 | .01323 |
| #2 | .00064 | .01060 | .00109 | 1.1096 | -.00016 | -.02671 | .03445 | .02879 | .01272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5315.4** | **66551.** | **2810.2** |
| Stddev | 5.2 | 148. | 8.9 |
| %RSD | .09858 | .22168 | .31531 |
| #1 | 5319.1 | 66655. | 2803.9 |
| #2 | 5311.7 | 66447. | 2816.5 |

Sample Name: 42229-A-1-B DU@5 Acquired: 5/18/2013 13:02:24 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00096** | **10.734** | **.00307** | **.00502** | **.10319** | **-.00011** | **-.00884** | **14.338** | **.00034** |
| Stddev | .00044 | .049 | .00138 | .00004 | .00029 | .00005 | .00246 | .048 | .00009 |
| %RSD | 45.762 | .46009 | 44.949 | .74743 | .28270 | 42.055 | 27.763 | .33539 | 25.254 |
| #1 | -.00127 | 10.769 | .00405 | .00499 | .10339 | -.00015 | -.01058 | 14.372 | .00028 |
| #2 | -.00065 | 10.699 | .00209 | .00504 | .10298 | -.00008 | -.00711 | 14.304 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02584** | **.01170** | **.03656** | **60.660** | **1.9144** | **.01093** | **10.731** | **.74315** | **.00031** |
| Stddev | .00007 | .00011 | .00054 | .663 | .0115 | .00211 | .018 | .00038 | .00014 |
| %RSD | .26461 | .89771 | 1.4857 | 1.0928 | .59869 | 19.312 | .16665 | .05142 | 46.749 |
| #1 | .02589 | .01162 | .03694 | 61.129 | 1.9225 | .00943 | 10.719 | .74288 | .00021 |
| #2 | .02579 | .01177 | .03618 | 60.191 | 1.9063 | .01242 | 10.744 | .74342 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67482** | **.02095** | **3.1398** | **.00792** | **.22496** | **.00013** | **-.00115** | **.34746** | **.00501** |
| Stddev | .01739 | .00019 | .0010 | .00098 | .00062 | .00031 | .00062 | .01856 | .00012 |
| %RSD | 2.5767 | .91852 | .03165 | 12.344 | .27770 | 245.61 | 53.559 | 5.3404 | 2.2964 |
| #1 | .68712 | .02081 | 3.1405 | .00723 | .22452 | .00035 | -.00072 | .36058 | .00509 |
| #2 | .66253 | .02109 | 3.1391 | .00861 | .22540 | -.00009 | -.00159 | .33434 | .00493 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04539** | **.01498** | **4.8509** | **-.00183** | W **-.08463** | **.15957** | **.11630** | **.05784** |
| Stddev | .00047 | .00175 | .0092 | .00172 | .00082 | .00041 | .00057 | .00164 |
| %RSD | 1.0420 | 11.700 | .18881 | 93.869 | .96420 | .25970 | .49376 | 2.8286 |
| #1 | .04572 | .01374 | 4.8444 | -.00304 | -.08406 | .15987 | .11671 | .05668 |
| #2 | .04505 | .01622 | 4.8573 | -.00061 | -.08521 | .15928 | .11589 | .05900 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5448.1** | **68417.** | **2896.0** |
| Stddev | 6.9 | 189. | 25.7 |
| %RSD | .12696 | .27603 | .88872 |
| #1 | 5443.2 | 68551. | 2877.8 |
| #2 | 5453.0 | 68284. | 2914.2 |

Sample Name: 42229-A-1-C MS@5 Acquired: 5/18/2013 13:04:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00885** | **16.122** | **.18152** | **.19079** | **.50778** | **.00946** | **.38679** | **28.424** | **.02027** |
| Stddev | .00101 | .092 | .00049 | .00032 | .00300 | .00014 | .00225 | .137 | .00001 |
| %RSD | 11.369 | .56879 | .27143 | .16881 | .59081 | 1.5130 | .58168 | .48200 | .04210 |
| #1 | .00814 | 16.187 | .18187 | .19057 | .50990 | .00956 | .38520 | 28.521 | .02026 |
| #2 | .00956 | 16.057 | .18117 | .19102 | .50566 | .00936 | .38838 | 28.327 | .02027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12597** | **.05350** | **.08844** | **69.905** | **12.284** | **.21520** | **23.880** | **1.0364** | **.19233** |
| Stddev | .00016 | .00019 | .00012 | .054 | .143 | .00166 | .011 | .0012 | .00028 |
| %RSD | .12564 | .35807 | .14049 | .07736 | 1.1653 | .77332 | .04497 | .11519 | .14404 |
| #1 | .12586 | .05363 | .08853 | 69.944 | 12.385 | .21638 | 23.872 | 1.0355 | .19214 |
| #2 | .12608 | .05336 | .08835 | 69.867 | 12.183 | .21402 | 23.888 | 1.0372 | .19253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.902** | **.12205** | **4.8338** | **.10252** | **.23410** | **.05703** | **.36823** | **1.1852** | **.29915** |
| Stddev | .063 | .00028 | .0073 | .00262 | .00003 | .00122 | .00167 | .0067 | .00051 |
| %RSD | .53320 | .22907 | .15152 | 2.5604 | .01168 | 2.1311 | .45344 | .56158 | .16973 |
| #1 | 11.857 | .12185 | 4.8286 | .10066 | .23408 | .05617 | .36705 | 1.1805 | .29879 |
| #2 | 11.947 | .12224 | 4.8390 | .10437 | .23412 | .05789 | .36941 | 1.1899 | .29951 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25472** | **.20459** | **5.6617** | **.38869** | **.34114** | **.28581** | **.22300** | **.16373** |
| Stddev | .00107 | .00021 | .0131 | .00185 | .00576 | .00195 | .00022 | .00404 |
| %RSD | .41874 | .10334 | .23156 | .47557 | 1.6878 | .68058 | .09860 | 2.4670 |
| #1 | .25548 | .20444 | 5.6524 | .38739 | .33707 | .28444 | .22316 | .16659 |
| #2 | .25397 | .20474 | 5.6710 | .39000 | .34521 | .28719 | .22285 | .16088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5393.4** | **67610.** | **2865.2** |
| Stddev | 9.3 | 172. | 3.9 |
| %RSD | .17182 | .25425 | .13496 |
| #1 | 5386.9 | 67489. | 2862.5 |
| #2 | 5400.0 | 67732. | 2868.0 |

Sample Name: 280-42229-A-2-A@5 Acquired: 5/18/2013 13:07:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00102** | **9.5742** | **.00080** | **.00546** | **.09481** | **-.00016** | **-.00885** | **10.932** | **.00047** |
| Stddev | .00006 | .0478 | .00121 | .00006 | .00035 | .00016 | .00286 | .052 | .00013 |
| %RSD | 5.7246 | .49930 | 151.63 | 1.0770 | .36963 | 95.763 | 32.291 | .47425 | 26.668 |
| #1 | -.00106 | 9.6080 | .00165 | .00542 | .09457 | -.00005 | -.01087 | 10.969 | .00056 |
| #2 | -.00098 | 9.5404 | -.00006 | .00550 | .09506 | -.00027 | -.00683 | 10.896 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02473** | **.00909** | **.03125** | **57.150** | **1.2265** | **.00834** | **10.240** | **.72688** | **.00024** |
| Stddev | .00002 | .00001 | .00012 | .142 | .0820 | .00124 | .024 | .00106 | .00010 |
| %RSD | .08602 | .16244 | .38260 | .24769 | 6.6862 | 14.824 | .23046 | .14571 | 41.412 |
| #1 | .02474 | .00908 | .03134 | 57.050 | 1.2845 | .00922 | 10.257 | .72762 | .00031 |
| #2 | .02471 | .00910 | .03117 | 57.250 | 1.1685 | .00747 | 10.224 | .72613 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.70531** | **.01952** | **2.5794** | **.00691** | **.19909** | **-.00033** | **.00189** | **.28586** | **.00488** |
| Stddev | .00135 | .00020 | .0062 | .00205 | .00114 | .00031 | .00041 | .01469 | .00036 |
| %RSD | .19181 | 1.0437 | .23870 | 29.601 | .57074 | 93.328 | 21.928 | 5.1393 | 7.3834 |
| #1 | .70435 | .01937 | 2.5751 | .00546 | .19829 | -.00011 | .00159 | .29625 | .00462 |
| #2 | .70626 | .01966 | 2.5838 | .00836 | .19990 | -.00055 | .00218 | .27547 | .00513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03873** | **.01328** | **5.0016** | **-.00206** | **-.04464** | **.15099** | **.10543** | **.04973** |
| Stddev | .00022 | .00113 | .0041 | .00163 | .06535 | .00048 | .00030 | .00037 |
| %RSD | .55876 | 8.5131 | .08218 | 79.379 | 146.38 | .31981 | .28199 | .75075 |
| #1 | .03888 | .01248 | 5.0045 | -.00322 | .00156 | .15065 | .10564 | .04946 |
| #2 | .03857 | .01408 | 4.9987 | -.00090 | -.09085 | .15133 | .10522 | .04999 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5371.8** | **67524.** | **2855.6** |
| Stddev | 10.2 | 545. | 5.8 |
| %RSD | .18973 | .80680 | .20336 |
| #1 | 5379.0 | 67139. | 2851.5 |
| #2 | 5364.6 | 67910. | 2859.7 |

Sample Name: 280-42229-A-3-A@5 Acquired: 5/18/2013 13:09:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00097** | **10.058** | **.00252** | **.00419** | **.12576** | **-.00038** | **-.00545** | **14.737** | **.00038** |
| Stddev | .00017 | .036 | .00278 | .00063 | .00049 | .00004 | .00169 | .108 | .00007 |
| %RSD | 17.921 | .35785 | 110.56 | 15.049 | .38579 | 11.358 | 31.033 | .73069 | 17.349 |
| #1 | -.00084 | 10.033 | .00448 | .00463 | .12610 | -.00035 | -.00425 | 14.813 | .00042 |
| #2 | -.00109 | 10.084 | .00055 | .00374 | .12542 | -.00041 | -.00664 | 14.661 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02917** | **.00704** | **.03919** | **74.028** | **1.3551** | **.00705** | **12.148** | **.82117** | **.00036** |
| Stddev | .00015 | .00011 | .00064 | .213 | .0205 | .00438 | .009 | .00082 | .00015 |
| %RSD | .49759 | 1.6177 | 1.6235 | .28756 | 1.5131 | 62.101 | .07671 | .09943 | 40.684 |
| #1 | .02927 | .00696 | .03874 | 74.179 | 1.3406 | .01015 | 12.155 | .82059 | .00046 |
| #2 | .02907 | .00712 | .03964 | 73.878 | 1.3696 | .00396 | 12.141 | .82175 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85862** | **.01791** | **3.7366** | **.00685** | **.27388** | **.00211** | **-.00008** | **.26960** | **.00543** |
| Stddev | .03548 | .00035 | .0048 | .00236 | .00020 | .00178 | .00132 | .03686 | .00020 |
| %RSD | 4.1319 | 1.9376 | .12797 | 34.426 | .07404 | 84.287 | 1576.8 | 13.673 | 3.7502 |
| #1 | .88371 | .01815 | 3.7399 | .00518 | .27402 | .00337 | .00085 | .29567 | .00557 |
| #2 | .83354 | .01766 | 3.7332 | .00852 | .27374 | .00085 | -.00101 | .24354 | .00528 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04916** | **.01690** | **6.3995** | **-.00302** | **-.02624** | **.18997** | **.13228** | **.06940** |
| Stddev | .00015 | .00019 | .0121 | .00009 | .00798 | .00044 | .00003 | .00278 |
| %RSD | .31511 | 1.1269 | .18875 | 2.9244 | 30.402 | .22986 | .02060 | 4.0039 |
| #1 | .04927 | .01676 | 6.3909 | -.00308 | -.02060 | .19028 | .13226 | .07136 |
| #2 | .04905 | .01703 | 6.4080 | -.00296 | -.03188 | .18966 | .13230 | .06743 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5453.3** | **67875.** | **2860.7** |
| Stddev | 10.2 | 121. | 28.2 |
| %RSD | .18790 | .17834 | .98623 |
| #1 | 5446.0 | 67960. | 2840.7 |
| #2 | 5460.5 | 67789. | 2880.6 |

Sample Name: 280-42229-A-4-A@5 Acquired: 5/18/2013 13:11:50 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **9.3021** | **.00200** | **.00379** | **.12720** | **-.00007** | **.00002** | **15.516** | **.00040** |
| Stddev | .00082 | .0497 | .00024 | .00128 | .00031 | .00007 | .00156 | .084 | .00007 |
| %RSD | 1730.4 | .53436 | 11.764 | 33.703 | .24492 | 102.53 | 9791.6 | .53951 | 17.207 |
| #1 | .00063 | 9.2670 | .00183 | .00469 | .12698 | -.00011 | -.00108 | 15.457 | .00045 |
| #2 | -.00053 | 9.3373 | .00217 | .00288 | .12742 | -.00002 | .00112 | 15.575 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02819** | **.00619** | **.03778** | **72.295** | **1.2546** | **.00718** | **11.092** | **.83500** | **.00041** |
| Stddev | .00008 | .00021 | .00061 | .241 | .0298 | .00455 | .037 | .00124 | .00013 |
| %RSD | .27567 | 3.4065 | 1.6077 | .33286 | 2.3744 | 63.400 | .33545 | .14825 | 31.089 |
| #1 | .02813 | .00634 | .03821 | 72.125 | 1.2336 | .00396 | 11.118 | .83588 | .00032 |
| #2 | .02824 | .00604 | .03735 | 72.465 | 1.2757 | .01040 | 11.066 | .83413 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75123** | **.01615** | **3.7902** | **.00624** | **.27614** | **.00240** | **-.00058** | **.27378** | **.00605** |
| Stddev | .00648 | .00021 | .0079 | .00276 | .00172 | .00166 | .00165 | .00214 | .00089 |
| %RSD | .86292 | 1.3167 | .20843 | 44.249 | .62443 | 69.087 | 282.78 | .78158 | 14.715 |
| #1 | .75581 | .01600 | 3.7958 | .00429 | .27736 | .00357 | -.00175 | .27529 | .00668 |
| #2 | .74664 | .01630 | 3.7846 | .00819 | .27492 | .00123 | .00058 | .27226 | .00542 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04799** | **.01687** | **6.2846** | **-.00163** | **-.03915** | **.18383** | **.12806** | **.07429** |
| Stddev | .00006 | .00087 | .0090 | .00004 | .00176 | .00084 | .00020 | .00124 |
| %RSD | .12752 | 5.1416 | .14273 | 2.6311 | 4.5006 | .45923 | .15297 | 1.6684 |
| #1 | .04803 | .01626 | 6.2910 | -.00160 | -.03791 | .18442 | .12792 | .07342 |
| #2 | .04794 | .01748 | 6.2783 | -.00166 | -.04040 | .18323 | .12820 | .07517 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5445.5** | **68412.** | **2884.0** |
| Stddev | 10.2 | 133. | 5.3 |
| %RSD | .18814 | .19395 | .18533 |
| #1 | 5438.3 | 68318. | 2887.8 |
| #2 | 5452.8 | 68506. | 2880.2 |

Sample Name: 280-42229-A-5-A@5 Acquired: 5/18/2013 13:14:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00109** | **9.7730** | **.00412** | **.00365** | **.10890** | **-.00021** | **.00000** | **14.072** | **.00053** |
| Stddev | .00023 | .0377 | .00001 | .00022 | .00133 | .00005 | .00223 | .101 | .00006 |
| %RSD | 20.767 | .38556 | .34315 | 5.8946 | 1.2230 | 22.519 | 75282. | .71933 | 10.818 |
| #1 | -.00125 | 9.7463 | .00413 | .00380 | .10795 | -.00018 | -.00158 | 14.000 | .00057 |
| #2 | -.00093 | 9.7996 | .00411 | .00350 | .10984 | -.00024 | .00158 | 14.144 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02646** | **.01090** | **.03443** | **65.991** | **1.3356** | **.01079** | **11.930** | **.79534** | **.00037** |
| Stddev | .00033 | .00025 | .00000 | .534 | .0213 | .00245 | .014 | .00046 | .00004 |
| %RSD | 1.2329 | 2.2504 | .00100 | .80987 | 1.5948 | 22.723 | .11623 | .05722 | 12.031 |
| #1 | .02669 | .01073 | .03443 | 65.613 | 1.3205 | .01253 | 11.940 | .79502 | .00034 |
| #2 | .02623 | .01108 | .03443 | 66.368 | 1.3506 | .00906 | 11.920 | .79566 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72186** | **.02243** | **3.0883** | **.00735** | **.23652** | **-.00002** | **.00050** | **.34505** | **.00568** |
| Stddev | .00142 | .00032 | .0096 | .00064 | .00521 | .00176 | .00011 | .01386 | .00065 |
| %RSD | .19640 | 1.4443 | .31036 | 8.6684 | 2.2027 | 10997. | 21.794 | 4.0157 | 11.378 |
| #1 | .72086 | .02220 | 3.0815 | .00780 | .23284 | -.00126 | .00057 | .35484 | .00522 |
| #2 | .72286 | .02266 | 3.0951 | .00690 | .24021 | .00123 | .00042 | .33525 | .00614 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04535** | **.01584** | **6.0133** | **-.00212** | **-.03776** | **.17131** | **.12093** | **.06826** |
| Stddev | .00014 | .00019 | .0077 | .00051 | .02640 | .00036 | .00015 | .00200 |
| %RSD | .30558 | 1.1886 | .12852 | 24.128 | 69.929 | .20756 | .12170 | 2.9228 |
| #1 | .04525 | .01597 | 6.0078 | -.00176 | -.05643 | .17157 | .12103 | .06685 |
| #2 | .04545 | .01570 | 6.0187 | -.00248 | -.01909 | .17106 | .12082 | .06967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5453.9** | **67933.** | **2882.5** |
| Stddev | 11.7 | 17. | 20.1 |
| %RSD | .21414 | .02536 | .69715 |
| #1 | 5445.6 | 67921. | 2896.7 |
| #2 | 5462.2 | 67945. | 2868.3 |

Sample Name: 280-42229-A-6-A@5 Acquired: 5/18/2013 13:16:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **10.348** | **.00452** | **.00319** | **.12191** | **-.00020** | **.00046** | **17.211** | **.00033** |
| Stddev | .00122 | .004 | .00202 | .00055 | .00026 | .00006 | .00048 | .053 | .00003 |
| %RSD | 198.16 | .03399 | 44.703 | 17.379 | .21196 | 29.202 | 105.61 | .30902 | 8.3091 |
| #1 | -.00147 | 10.350 | .00595 | .00280 | .12209 | -.00016 | .00079 | 17.249 | .00035 |
| #2 | .00025 | 10.345 | .00309 | .00358 | .12172 | -.00024 | .00012 | 17.173 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02553** | **.00656** | **.03588** | **61.818** | **1.2398** | **.00753** | **10.011** | **.72269** | **.00037** |
| Stddev | .00017 | .00015 | .00028 | .178 | .0127 | .00110 | .004 | .00013 | .00018 |
| %RSD | .65208 | 2.2124 | .77338 | .28828 | 1.0276 | 14.601 | .03806 | .01784 | 47.651 |
| #1 | .02542 | .00667 | .03608 | 61.944 | 1.2308 | .00831 | 10.008 | .72260 | .00049 |
| #2 | .02565 | .00646 | .03568 | 61.692 | 1.2488 | .00676 | 10.013 | .72278 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97408** | **.01700** | **3.1790** | **.00548** | **.23707** | **.00074** | **.00091** | **.30760** | **.00489** |
| Stddev | .00786 | .00050 | .0068 | .00020 | .00339 | .00010 | .00177 | .01037 | .00049 |
| %RSD | .80684 | 2.9569 | .21420 | 3.6246 | 1.4307 | 13.443 | 194.93 | 3.3709 | 10.051 |
| #1 | .96852 | .01736 | 3.1742 | .00534 | .23947 | .00067 | .00216 | .31493 | .00455 |
| #2 | .97964 | .01665 | 3.1838 | .00562 | .23467 | .00081 | -.00034 | .30027 | .00524 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05081** | **.01467** | **5.0760** | **-.00169** | **-.04219** | **.15880** | **.10923** | **.06179** |
| Stddev | .00008 | .00125 | .0081 | .00002 | .00292 | .00056 | .00087 | .00715 |
| %RSD | .15840 | 8.4990 | .15877 | 1.1700 | 6.9122 | .35380 | .79757 | 11.578 |
| #1 | .05087 | .01379 | 5.0703 | -.00170 | -.04012 | .15840 | .10985 | .06684 |
| #2 | .05076 | .01555 | 5.0817 | -.00167 | -.04425 | .15919 | .10861 | .05673 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5517.4** | **69497.** | **2963.6** |
| Stddev | 2.5 | 346. | 19.3 |
| %RSD | .04446 | .49746 | .65022 |
| #1 | 5519.1 | 69253. | 2950.0 |
| #2 | 5515.6 | 69742. | 2977.2 |

Sample Name: 280-42229-A-7-A@5 Acquired: 5/18/2013 13:18:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00072** | **10.362** | **.00411** | **.00352** | **.11144** | **-.00004** | **.00163** | **15.565** | **.00040** |
| Stddev | .00001 | .004 | .00068 | .00056 | .00107 | .00002 | .00224 | .049 | .00014 |
| %RSD | 1.3236 | .03424 | 16.450 | 15.878 | .95973 | 61.372 | 137.79 | .31516 | 35.182 |
| #1 | -.00072 | 10.360 | .00363 | .00391 | .11069 | -.00002 | .00004 | 15.530 | .00050 |
| #2 | -.00071 | 10.365 | .00459 | .00312 | .11220 | -.00005 | .00321 | 15.599 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02468** | **.00909** | **.03525** | **62.460** | **1.4483** | **.00736** | **10.382** | **.69548** | **.00025** |
| Stddev | .00003 | .00011 | .00052 | .122 | .0396 | .00159 | .043 | .00189 | .00031 |
| %RSD | .13020 | 1.2049 | 1.4877 | .19461 | 2.7348 | 21.571 | .41709 | .27233 | 123.89 |
| #1 | .02466 | .00902 | .03562 | 62.374 | 1.4763 | .00624 | 10.413 | .69682 | .00003 |
| #2 | .02470 | .00917 | .03488 | 62.546 | 1.4203 | .00848 | 10.351 | .69414 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76312** | **.01904** | **3.3217** | **.00609** | **.22636** | **.00099** | **-.00144** | **.35796** | **.00522** |
| Stddev | .00960 | .00023 | .0024 | .00023 | .00239 | .00007 | .00088 | .00561 | .00068 |
| %RSD | 1.2580 | 1.2324 | .07307 | 3.7395 | 1.0578 | 7.1674 | 61.276 | 1.5678 | 13.124 |
| #1 | .76991 | .01888 | 3.3200 | .00593 | .22466 | .00104 | -.00082 | .36193 | .00473 |
| #2 | .75633 | .01921 | 3.3234 | .00625 | .22805 | .00094 | -.00207 | .35400 | .00570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05002** | **.01561** | **5.3010** | **-.00196** | W **-.05977** | **.16116** | **.11498** | **.06091** |
| Stddev | .00031 | .00131 | .0110 | .00064 | .01493 | .00053 | .00079 | .00342 |
| %RSD | .61775 | 8.3883 | .20810 | 32.661 | 24.982 | .32746 | .68933 | 5.6175 |
| #1 | .04980 | .01654 | 5.3088 | -.00242 | -.07032 | .16153 | .11554 | .05849 |
| #2 | .05023 | .01468 | 5.2932 | -.00151 | -.04921 | .16078 | .11442 | .06333 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5558.5** | **70079.** | **2991.7** |
| Stddev | 15.2 | 319. | 12.8 |
| %RSD | .27331 | .45574 | .42926 |
| #1 | 5569.2 | 69854. | 3000.7 |
| #2 | 5547.7 | 70305. | 2982.6 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 13:21:19 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **49.034** | **-.00134** | **.00430** | **.00107** | **.00014** | **.99092** | **.00640** | **-.00068** | **.00151** | **.00020** | **.00141** | **48.738** |
| Stddev | .00034 | .247 | .00074 | .00027 | .00019 | .00002 | .00030 | .00515 | .00007 | .00019 | .00019 | .00045 | .105 |
| %RSD | 593.89 | .50425 | 55.012 | 6.2511 | 18.268 | 14.694 | .03045 | 80.570 | 10.106 | 12.510 | 99.250 | 31.642 | .21493 |
| #1 | .00018 | 49.209 | -.00082 | .00449 | .00093 | .00013 | .99071 | .01004 | -.00073 | .00164 | .00006 | .00173 | 48.664 |
| #2 | -.00030 | 48.859 | -.00187 | .00411 | .00120 | .00016 | .99113 | .00275 | -.00064 | .00138 | .00033 | .00109 | 48.812 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06463** | **.00096** | **.01877** | **.00062** | **-.00197** | **248.85** | **.00066** | **.00607** | **.00278** | **4.9565** | **.00062** | **.00511** | **.04598** |
| Stddev | .01483 | .00046 | .00403 | .00000 | .00016 | 2.07 | .00070 | .00155 | .00108 | .0128 | .00042 | .00406 | .02464 |
| %RSD | 22.948 | 47.757 | 21.464 | .61137 | 8.3620 | .83154 | 106.40 | 25.516 | 38.970 | .25800 | 67.958 | 79.387 | 53.596 |
| #1 | .07511 | .00064 | .01592 | .00061 | -.00208 | 250.32 | .00115 | .00716 | .00355 | 4.9474 | .00032 | .00224 | .02855 |
| #2 | .05414 | .00128 | .02162 | .00062 | -.00185 | 247.39 | .00016 | .00497 | .00202 | 4.9655 | .00092 | .00798 | .06340 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00066** | **4.8897** | **.00729** | **-.00321** | **9.8831** | **.00029** | **.00294** | **-.02820** |
| Stddev | .00003 | .00008 | .0066 | .00001 | .00221 | .0254 | .00001 | .00006 | .00200 |
| %RSD | 3.2717 | 12.915 | .13398 | .08807 | 68.933 | .25663 | 1.8464 | 1.9030 | 7.0760 |
| #1 | .00080 | .00060 | 4.8943 | .00729 | -.00478 | 9.8651 | .00030 | .00290 | -.02679 |
| #2 | .00084 | .00072 | 4.8850 | .00730 | -.00165 | 9.9010 | .00029 | .00298 | -.02961 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5260.8** | **66385.** | **2865.8** |
| Stddev | 9.2 | 348. | 23.0 |
| %RSD | .17492 | .52438 | .80122 |
| #1 | 5254.3 | 66139. | 2849.6 |
| #2 | 5267.3 | 66631. | 2882.0 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 13:23:43 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50652** | **.51079** | **.99631** | **.50749** | **.50502** | **.49965** | **-.00091** | **5.0327** | **.50392** | **.50869** | **.50309** | **.50252** | **2.5375** |
| Stddev | .00027 | .00031 | .00013 | .00042 | .00366 | .00180 | .00007 | .0020 | .00143 | .00149 | .00149 | .00063 | .0036 |
| %RSD | .05321 | .06012 | .01329 | .08209 | .72468 | .35981 | 7.9894 | .03920 | .28283 | .29282 | .29625 | .12479 | .14022 |
| #1 | .50671 | .51058 | .99621 | .50720 | .50243 | .49838 | -.00096 | 5.0313 | .50493 | .50974 | .50414 | .50296 | 2.5350 |
| #2 | .50633 | .51101 | .99640 | .50779 | .50761 | .50092 | -.00086 | 5.0340 | .50291 | .50763 | .50204 | .50208 | 2.5400 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.342** | **1.0401** | **20.106** | **.50389** | **.50125** | **5.1428** | **.50834** | **1.0066** | **1.0143** | **-.00076** | **1.0067** | **1.0047** | **5.0132** |
| Stddev | .154 | .0012 | .059 | .00084 | .00025 | .0389 | .00150 | .0027 | .0011 | .00245 | .0011 | .0009 | .0110 |
| %RSD | .29928 | .11119 | .29286 | .16612 | .05050 | .75664 | .29496 | .26333 | .10441 | 323.48 | .10793 | .08745 | .21888 |
| #1 | 51.233 | 1.0393 | 20.147 | .50449 | .50108 | 5.1153 | .50940 | 1.0084 | 1.0135 | .00098 | 1.0075 | 1.0053 | 5.0054 |
| #2 | 51.451 | 1.0409 | 20.064 | .50330 | .50143 | 5.1703 | .50728 | 1.0047 | 1.0150 | -.00249 | 1.0060 | 1.0041 | 5.0209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99834** | **.50373** | **-.00003** | **.50471** | **1.0058** | **-.01323** | **.50256** | **.50610** | **.49908** |
| Stddev | .00062 | .00235 | .00116 | .00048 | .0043 | .04146 | .00157 | .00116 | .00242 |
| %RSD | .06216 | .46615 | 4452.2 | .09607 | .42597 | 313.42 | .31334 | .22876 | .48404 |
| #1 | .99877 | .50207 | -.00085 | .50505 | 1.0089 | .01609 | .50368 | .50692 | .50079 |
| #2 | .99790 | .50539 | .00080 | .50437 | 1.0028 | -.04254 | .50145 | .50528 | .49738 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5389.1** | **67675.** | **2904.2** |
| Stddev | 7.5 | 26. | 17.0 |
| %RSD | .13827 | .03913 | .58637 |
| #1 | 5383.8 | 67656. | 2916.2 |
| #2 | 5394.4 | 67694. | 2892.1 |

Sample Name: CCB Acquired: 5/18/2013 13:25:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | **.00173** | **.00141** | F **.00354** | W **.00106** | **.00002** | **.00162** | **-.00873** | **-.00004** | **.00007** | **-.00018** |
| Stddev | .00066 | .00086 | .00013 | .00042 | .00042 | .00008 | .00039 | .00070 | .00018 | .00021 | .00003 |
| %RSD | 127.26 | 50.022 | 8.8480 | 11.729 | 39.978 | 411.14 | 24.341 | 8.0084 | 417.92 | 276.33 | 14.287 |
| #1 | -.00099 | .00112 | .00133 | .00384 | .00076 | -.00004 | .00134 | -.00922 | .00008 | .00022 | -.00016 |
| #2 | -.00005 | .00234 | .00150 | .00325 | .00135 | .00008 | .00190 | -.00824 | -.00017 | -.00007 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00318** | **.07946** | **.00012** | **.00092** | **-.00000** | **.00019** | **.03289** | **-.00039** | **.00110** | **.00127** |
| Stddev | .00020 | .00399 | .03290 | .00512 | .00065 | .00001 | .00005 | .00785 | .00041 | .00049 | .00169 |
| %RSD | 92.143 | 125.33 | 41.400 | 4234.6 | 70.154 | 352.10 | 25.163 | 23.855 | 105.86 | 44.554 | 133.27 |
| #1 | .00008 | .00036 | .10272 | -.00350 | .00138 | .00001 | .00023 | .03843 | -.00010 | .00145 | .00246 |
| #2 | .00036 | .00601 | .05620 | .00374 | .00047 | -.00001 | .00016 | .02734 | -.00068 | .00076 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00139** | **-.00066** | **-.00349** | **.02957** | **-.00001** | **-.00001** | **-.00027** | **.00006** | **-.00125** | **-.03756** | **.00038** |
| Stddev | .00146 | .00220 | .00248 | .01629 | .00041 | .00009 | .00112 | .00013 | .00057 | .01933 | .00034 |
| %RSD | 104.85 | 333.45 | 71.078 | 55.079 | 5811.6 | 683.28 | 420.56 | 210.01 | 45.717 | 51.471 | 90.926 |
| #1 | -.00036 | -.00221 | -.00525 | .01805 | -.00030 | .00005 | -.00105 | .00015 | -.00165 | -.02389 | .00062 |
| #2 | -.00243 | .00090 | -.00174 | .04109 | .00029 | -.00007 | .00052 | -.00003 | -.00084 | -.05123 | .00013 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00266** | **.00024** |
| Stddev | .00052 | .00132 |
| %RSD | 19.447 | 549.25 |
| #1 | .00229 | -.00070 |
| #2 | .00303 | .00118 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5400.9** | **68220.** | **2880.6** |
| Stddev | 14.3 | 4. | 26.2 |
| %RSD | .26538 | .00527 | .90856 |
| #1 | 5390.8 | 68218. | 2862.1 |
| #2 | 5411.0 | 68223. | 2899.1 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 13:28:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00967** | **.10693** | **.01430** | **.10588** | **.01100** | **.00107** | **.10341** | **.20947** | **.00532** | **.01042** | **.01023** |
| Stddev | .00050 | .00075 | .00022 | .00093 | .00016 | .00006 | .00052 | .00270 | .00007 | .00018 | .00002 |
| %RSD | 5.2147 | .70205 | 1.5686 | .88221 | 1.4699 | 5.1348 | .50488 | 1.2905 | 1.2526 | 1.6832 | .20063 |
| #1 | .00931 | .10746 | .01414 | .10654 | .01089 | .00103 | .10378 | .20756 | .00528 | .01054 | .01021 |
| #2 | .01003 | .10640 | .01446 | .10522 | .01112 | .00111 | .10304 | .21138 | .00537 | .01029 | .01024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01592** | **.10400** | **3.2533** | **.01142** | **.20987** | **.01050** | **.02053** | **1.1030** | **.04190** | **3.0143** | W **.01084** |
| Stddev | .00018 | .00119 | .0211 | .00295 | .00216 | .00006 | .00011 | .0126 | .00009 | .0131 | .00094 |
| %RSD | 1.1246 | 1.1454 | .64868 | 25.810 | 1.0285 | .57730 | .52193 | 1.1379 | .21678 | .43425 | 8.6578 |
| #1 | .01604 | .10484 | 3.2384 | .00933 | .21140 | .01046 | .02061 | 1.0941 | .04184 | 3.0235 | .01150 |
| #2 | .01579 | .10316 | 3.2682 | .01350 | .20835 | .01055 | .02046 | 1.1118 | .04197 | 3.0050 | .01017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | | | | .00900 |
| Range | | | | | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **.00915** | **.01245** | **.54328** | **.10363** | **.01050** | **.01462** | **.01071** | **.01672** | F **.02265** | **.01097** |
| Stddev | .00263 | .00008 | .00359 | .00027 | .00020 | .00001 | .00016 | .00027 | .00184 | .04707 | .00044 |
| %RSD | 816.37 | .87626 | 28.858 | .04924 | .19270 | .13152 | 1.1063 | 2.5410 | 11.023 | 207.78 | 4.0486 |
| #1 | .00154 | .00909 | .01499 | .54347 | .10377 | .01051 | .01473 | .01091 | .01802 | -.01063 | .01128 |
| #2 | -.00218 | .00921 | .00991 | .54309 | .10349 | .01049 | .01450 | .01052 | .01541 | .05593 | .01065 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02365** | **.01431** |
| Stddev | .00015 | .00027 |
| %RSD | .65462 | 1.8749 |
| #1 | .02376 | .01450 |
| #2 | .02354 | .01412 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5438.0** | **68898.** | **2929.1** |
| Stddev | 9.8 | 63. | 21.2 |
| %RSD | .17956 | .09174 | .72377 |
| #1 | 5444.9 | 68854. | 2914.1 |
| #2 | 5431.0 | 68943. | 2944.1 |

Sample Name: 280-42229-A-8-A@5 Acquired: 5/18/2013 13:30:55 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00081** | **9.2995** | **.00246** | **.00295** | **.12811** | **.00007** | **.00184** | **12.818** | **.00035** |
| Stddev | .00037 | .0396 | .00153 | .00022 | .00177 | .00003 | .00368 | .095 | .00004 |
| %RSD | 45.398 | .42632 | 61.964 | 7.5700 | 1.3845 | 36.246 | 200.09 | .74078 | 10.950 |
| #1 | -.00107 | 9.3275 | .00138 | .00311 | .12936 | .00009 | .00444 | 12.885 | .00033 |
| #2 | -.00055 | 9.2715 | .00354 | .00280 | .12685 | .00005 | -.00076 | 12.751 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02234** | **.00606** | **.03394** | **57.074** | **1.3616** | **.00743** | **9.1399** | **.69747** | **.00003** |
| Stddev | .00025 | .00003 | .00005 | .202 | .0441 | .00190 | .0078 | .00118 | .00004 |
| %RSD | 1.1285 | .45849 | .15790 | .35467 | 3.2417 | 25.544 | .08588 | .16968 | 127.12 |
| #1 | .02217 | .00608 | .03398 | 57.217 | 1.3928 | .00608 | 9.1344 | .69663 | .00006 |
| #2 | .02252 | .00604 | .03390 | 56.931 | 1.3304 | .00877 | 9.1455 | .69830 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62767** | **.01478** | **2.9096** | **.00502** | **.21810** | **.00169** | **-.00123** | **.33647** | **.00534** |
| Stddev | .00463 | .00003 | .0063 | .00046 | .00054 | .00055 | .00063 | .04438 | .00051 |
| %RSD | .73702 | .19040 | .21669 | 9.0822 | .24755 | 32.748 | 51.434 | 13.190 | 9.4927 |
| #1 | .62440 | .01480 | 2.9052 | .00470 | .21772 | .00130 | -.00078 | .36785 | .00498 |
| #2 | .63094 | .01476 | 2.9141 | .00534 | .21848 | .00208 | -.00167 | .30509 | .00570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04491** | **.01345** | **4.6739** | **-.00192** | W **-.05264** | **.14107** | **.10462** | **.06318** |
| Stddev | .00030 | .00023 | .0083 | .00231 | .02069 | .00038 | .00106 | .00236 |
| %RSD | .67469 | 1.6838 | .17720 | 120.11 | 39.301 | .26843 | 1.0103 | 3.7338 |
| #1 | .04469 | .01361 | 4.6681 | -.00355 | -.03801 | .14134 | .10387 | .06485 |
| #2 | .04512 | .01329 | 4.6798 | -.00029 | -.06727 | .14081 | .10536 | .06151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5626.1** | **70634.** | **3029.0** |
| Stddev | 20.2 | 25. | 19.4 |
| %RSD | .35884 | .03600 | .64077 |
| #1 | 5640.4 | 70652. | 3015.3 |
| #2 | 5611.8 | 70616. | 3042.8 |

Sample Name: 280-42229-A-9-A@5 Acquired: 5/18/2013 13:33:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **9.8745** | **.00300** | **.00307** | **.11719** | **.00000** | **-.00321** | **13.088** | **.00029** |
| Stddev | .00044 | .0147 | .00139 | .00022 | .00021 | .00004 | .00466 | .055 | .00023 |
| %RSD | 1514.9 | .14840 | 46.281 | 7.0321 | .17799 | 5016.2 | 145.44 | .41925 | 76.694 |
| #1 | .00028 | 9.8849 | .00398 | .00292 | .11734 | -.00003 | .00009 | 13.127 | .00045 |
| #2 | -.00034 | 9.8642 | .00202 | .00323 | .11704 | .00003 | -.00650 | 13.049 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02374** | **.00736** | **.03912** | **57.064** | **1.5865** | **.00691** | **9.5645** | **.69590** | **.00022** |
| Stddev | .00021 | .00016 | .00011 | .119 | .0420 | .00062 | .0101 | .00020 | .00019 |
| %RSD | .87224 | 2.1574 | .28284 | .20799 | 2.6464 | 8.9361 | .10525 | .02923 | 86.309 |
| #1 | .02360 | .00725 | .03920 | 56.980 | 1.6162 | .00647 | 9.5717 | .69604 | .00008 |
| #2 | .02389 | .00747 | .03904 | 57.148 | 1.5568 | .00735 | 9.5574 | .69575 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.70170** | **.01609** | **2.8665** | **.00536** | **.23882** | **-.00130** | **.00092** | **.37631** | **.00507** |
| Stddev | .01161 | .00045 | .0099 | .00004 | .00278 | .00291 | .00523 | .01892 | .00060 |
| %RSD | 1.6540 | 2.7969 | .34439 | .76840 | 1.1633 | 224.10 | 569.82 | 5.0288 | 11.840 |
| #1 | .69350 | .01577 | 2.8595 | .00533 | .23686 | .00076 | .00462 | .38969 | .00549 |
| #2 | .70991 | .01641 | 2.8735 | .00539 | .24079 | -.00335 | -.00278 | .36293 | .00464 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04320** | **.01115** | **4.6639** | **-.00167** | W **-.05324** | **.14377** | **.10432** | **.05370** |
| Stddev | .00003 | .00074 | .0028 | .00047 | .00037 | .00009 | .00004 | .00281 |
| %RSD | .06568 | 6.6296 | .05932 | 28.048 | .68727 | .06156 | .04036 | 5.2349 |
| #1 | .04318 | .01167 | 4.6619 | -.00134 | -.05299 | .14371 | .10435 | .05171 |
| #2 | .04322 | .01063 | 4.6658 | -.00201 | -.05350 | .14383 | .10429 | .05569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5627.7** | **71152.** | **3041.6** |
| Stddev | 18.4 | 258. | 9.9 |
| %RSD | .32694 | .36315 | .32608 |
| #1 | 5640.7 | 70969. | 3048.6 |
| #2 | 5614.6 | 71334. | 3034.6 |

Sample Name: 280-42229-A-10-A@5 Acquired: 5/18/2013 13:35:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **10.621** | **.00390** | **.00241** | **.13178** | **-.00019** | **.00300** | **13.609** | **.00039** |
| Stddev | .00029 | .085 | .00179 | .00041 | .00140 | .00001 | .00299 | .115 | .00003 |
| %RSD | 102.89 | .80456 | 45.881 | 16.965 | 1.0650 | 2.8486 | 99.818 | .84439 | 8.8772 |
| #1 | -.00008 | 10.561 | .00264 | .00270 | .13079 | -.00019 | .00511 | 13.528 | .00037 |
| #2 | -.00050 | 10.682 | .00517 | .00213 | .13277 | -.00018 | .00088 | 13.690 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02764** | **.01010** | **.03427** | **67.292** | **1.6036** | **.00877** | **12.716** | **.88440** | **.00030** |
| Stddev | .00047 | .00002 | .00020 | .524 | .0229 | .00032 | .177 | .00991 | .00027 |
| %RSD | 1.6862 | .17196 | .59684 | .77844 | 1.4306 | 3.6694 | 1.3885 | 1.1208 | 90.437 |
| #1 | .02731 | .01009 | .03442 | 66.922 | 1.6198 | .00854 | 12.841 | .89141 | .00011 |
| #2 | .02797 | .01011 | .03413 | 67.663 | 1.5874 | .00899 | 12.591 | .87739 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67043** | **.02343** | **3.1677** | **.00538** | **.25300** | **.00037** | **.00088** | **.35310** | **.00604** |
| Stddev | .01405 | .00036 | .0116 | .00075 | .00381 | .00115 | .00074 | .00296 | .00006 |
| %RSD | 2.0954 | 1.5357 | .36733 | 13.888 | 1.5052 | 309.81 | 83.934 | .83831 | 1.0347 |
| #1 | .66049 | .02318 | 3.1760 | .00485 | .25031 | -.00044 | .00140 | .35101 | .00608 |
| #2 | .68036 | .02369 | 3.1595 | .00591 | .25570 | .00119 | .00036 | .35520 | .00599 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04463** | **.01401** | **5.9342** | **-.00220** | W **-.05077** | **.17130** | **.12125** | **.05962** |
| Stddev | .00019 | .00359 | .0724 | .00142 | .03811 | .00230 | .00167 | .00135 |
| %RSD | .41649 | 25.643 | 1.2205 | 64.724 | 75.066 | 1.3400 | 1.3784 | 2.2589 |
| #1 | .04450 | .01655 | 5.9854 | -.00321 | -.07771 | .17292 | .12243 | .05867 |
| #2 | .04476 | .01147 | 5.8829 | -.00119 | -.02382 | .16967 | .12007 | .06058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5642.3** | **70862.** | **3041.6** |
| Stddev | 23.0 | 568. | 37.0 |
| %RSD | .40744 | .80161 | 1.2167 |
| #1 | 5626.0 | 70461. | 3067.7 |
| #2 | 5658.5 | 71264. | 3015.4 |

Sample Name: 280-42229-A-11-A@5 Acquired: 5/18/2013 13:38:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **11.471** | **.00229** | **.00248** | **.11614** | **-.00007** | **.00025** | **13.598** | **.00026** |
| Stddev | .00022 | .131 | .00219 | .00004 | .00220 | .00001 | .00218 | .225 | .00008 |
| %RSD | 58.749 | 1.1452 | 95.752 | 1.5141 | 1.8984 | 13.163 | 889.24 | 1.6583 | 30.348 |
| #1 | -.00053 | 11.378 | .00074 | .00245 | .11458 | -.00008 | -.00130 | 13.438 | .00032 |
| #2 | -.00022 | 11.564 | .00383 | .00250 | .11770 | -.00007 | .00179 | 13.757 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02573** | **.00901** | **.03736** | **63.086** | **1.5948** | **.01006** | **10.676** | **.75576** | **.00041** |
| Stddev | .00003 | .00001 | .00036 | .674 | .0056 | .00007 | .017 | .00237 | .00015 |
| %RSD | .12605 | .13441 | .97649 | 1.0690 | .35143 | .73779 | .15559 | .31414 | 36.427 |
| #1 | .02570 | .00900 | .03762 | 62.609 | 1.5988 | .01001 | 10.664 | .75408 | .00030 |
| #2 | .02575 | .00901 | .03710 | 63.563 | 1.5909 | .01011 | 10.688 | .75744 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.81830** | **.01879** | **3.1738** | **.00513** | **.23890** | **.00080** | **-.00067** | **.33791** | **.00535** |
| Stddev | .01761 | .00046 | .0178 | .00118 | .00636 | .00062 | .00175 | .02584 | .00023 |
| %RSD | 2.1518 | 2.4684 | .56081 | 23.065 | 2.6635 | 77.586 | 259.12 | 7.6469 | 4.2210 |
| #1 | .80585 | .01846 | 3.1612 | .00429 | .23440 | .00123 | -.00191 | .35618 | .00551 |
| #2 | .83076 | .01912 | 3.1864 | .00596 | .24340 | .00036 | .00056 | .31963 | .00519 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05366** | **.01391** | **5.4091** | **-.00168** | **-.02068** | **.16072** | **.11396** | **.06335** |
| Stddev | .00039 | .00014 | .0140 | .00163 | .03680 | .00109 | .00029 | .00287 |
| %RSD | .73087 | 1.0188 | .25912 | 96.752 | 177.97 | .67686 | .25340 | 4.5254 |
| #1 | .05338 | .01401 | 5.3992 | -.00283 | -.04670 | .15995 | .11375 | .06538 |
| #2 | .05394 | .01381 | 5.4190 | -.00053 | .00534 | .16149 | .11416 | .06133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5665.7** | **72006.** | **3056.8** |
| Stddev | 8.6 | 132. | 27.3 |
| %RSD | .15099 | .18302 | .89340 |
| #1 | 5671.7 | 71913. | 3076.1 |
| #2 | 5659.6 | 72100. | 3037.4 |

Sample Name: 280-42229-A-12-A@5 Acquired: 5/18/2013 13:40:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **11.644** | **.00440** | **.00287** | **.12176** | **-.00012** | **.00389** | **15.300** | **.00077** |
| Stddev | .00069 | .048 | .00045 | .00012 | .00010 | .00013 | .00111 | .059 | .00007 |
| %RSD | 582.37 | .41442 | 10.146 | 4.1639 | .08589 | 111.41 | 28.501 | .38849 | 9.4653 |
| #1 | -.00037 | 11.609 | .00472 | .00295 | .12168 | -.00002 | .00311 | 15.258 | .00072 |
| #2 | .00060 | 11.678 | .00409 | .00278 | .12183 | -.00021 | .00468 | 15.342 | .00082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02971** | **.01347** | **.03813** | **68.943** | **1.7083** | **.00992** | **13.365** | **.91217** | **.00020** |
| Stddev | .00032 | .00003 | .00009 | .076 | .0013 | .00018 | .012 | .00019 | .00001 |
| %RSD | 1.0831 | .18937 | .23983 | .10990 | .07395 | 1.8516 | .08683 | .02071 | 3.5974 |
| #1 | .02948 | .01349 | .03806 | 68.996 | 1.7092 | .00979 | 13.374 | .91230 | .00020 |
| #2 | .02994 | .01345 | .03819 | 68.889 | 1.7074 | .01005 | 13.357 | .91204 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.66472** | **.02695** | **3.1928** | **.00676** | **.29259** | **.00174** | **-.00329** | **.43390** | **.00560** |
| Stddev | .00838 | .00014 | .0045 | .00065 | .00171 | .00013 | .00185 | .02443 | .00092 |
| %RSD | 1.2601 | .50720 | .14046 | 9.6033 | .58570 | 7.3812 | 56.168 | 5.6311 | 16.435 |
| #1 | .65880 | .02705 | 3.1959 | .00722 | .29380 | .00165 | -.00198 | .45117 | .00495 |
| #2 | .67065 | .02686 | 3.1896 | .00630 | .29137 | .00183 | -.00460 | .41662 | .00625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05154** | **.01589** | **6.1316** | **-.00247** | W **-.07482** | **.17647** | **.12393** | **.06747** |
| Stddev | .00015 | .00155 | .0084 | .00181 | .01390 | .00117 | .00154 | .00132 |
| %RSD | .29783 | 9.7598 | .13739 | 73.216 | 18.584 | .66272 | 1.2402 | 1.9515 |
| #1 | .05165 | .01699 | 6.1256 | -.00375 | -.08465 | .17729 | .12502 | .06654 |
| #2 | .05144 | .01480 | 6.1375 | -.00119 | -.06499 | .17564 | .12285 | .06840 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5677.8** | **71113.** | **3088.1** |
| Stddev | 17.6 | 86. | 12.4 |
| %RSD | .30941 | .12111 | .40286 |
| #1 | 5665.3 | 71052. | 3096.9 |
| #2 | 5690.2 | 71174. | 3079.3 |

Sample Name: 280-42229-A-14-A@5 Acquired: 5/18/2013 13:42:49 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174435 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **12.113** | **.00551** | **.00282** | **.16094** | **.00015** | **.00023** | **24.778** | **.00042** |
| Stddev | .00018 | .082 | .00227 | .00038 | .00086 | .00007 | .00192 | .054 | .00019 |
| %RSD | 97.617 | .67883 | 41.124 | 13.354 | .53288 | 47.967 | 830.93 | .21910 | 46.027 |
| #1 | .00032 | 12.171 | .00391 | .00256 | .16033 | .00010 | .00159 | 24.739 | .00055 |
| #2 | .00006 | 12.055 | .00711 | .00309 | .16154 | .00020 | -.00113 | 24.816 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02269** | **.01389** | **.03875** | **56.080** | **2.0420** | **.00950** | **10.979** | **.71670** | **.00056** |
| Stddev | .00010 | .00003 | .00058 | .294 | .0119 | .00045 | .016 | .00012 | .00002 |
| %RSD | .43073 | .22036 | 1.5036 | .52409 | .58404 | 4.7247 | .14541 | .01737 | 4.2878 |
| #1 | .02262 | .01392 | .03834 | 55.872 | 2.0504 | .00982 | 10.967 | .71679 | .00054 |
| #2 | .02276 | .01387 | .03916 | 56.288 | 2.0336 | .00918 | 10.990 | .71661 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74853** | **.02245** | **3.1205** | **.00802** | **.36018** | **-.00068** | **.00144** | **.67255** | **.00457** |
| Stddev | .02178 | .00016 | .0037 | .00088 | .00324 | .00009 | .00091 | .01049 | .00009 |
| %RSD | 2.9099 | .73359 | .11781 | 10.977 | .89906 | 12.906 | 63.367 | 1.5592 | 1.9131 |
| #1 | .73313 | .02257 | 3.1231 | .00740 | .35789 | -.00061 | .00079 | .67996 | .00451 |
| #2 | .76393 | .02234 | 3.1179 | .00864 | .36247 | -.00074 | .00208 | .66513 | .00463 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06815** | **.01448** | **3.9071** | **-.00209** | W **-.05977** | **.12807** | **.11572** | **.05612** |
| Stddev | .00024 | .00161 | .0038 | .00082 | .03561 | .00021 | .00033 | .00024 |
| %RSD | .35334 | 11.123 | .09711 | 39.415 | 59.583 | .16316 | .28292 | .42294 |
| #1 | .06798 | .01561 | 3.9044 | -.00150 | -.03459 | .12792 | .11549 | .05595 |
| #2 | .06832 | .01334 | 3.9098 | -.00267 | -.08496 | .12822 | .11595 | .05629 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5667.3** | **71146.** | **3077.8** |
| Stddev | 10.6 | 127. | 3.1 |
| %RSD | .18766 | .17880 | .09959 |
| #1 | 5659.8 | 71236. | 3075.6 |
| #2 | 5674.8 | 71056. | 3079.9 |

Sample Name: 280-41981-A-7-A@5 Acquired: 5/18/2013 13:45:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173375 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **37.140** | **.01202** | **.24663** | **.13692** | **.00251** | **-.00194** | **111.57** | **.00217** |
| Stddev | .00023 | .246 | .00145 | .00142 | .00182 | .00011 | .00236 | .69 | .00002 |
| %RSD | 21.038 | .66105 | 12.044 | .57604 | 1.3268 | 4.4467 | 121.70 | .61771 | .99479 |
| #1 | -.00124 | 37.314 | .01100 | .24563 | .13821 | .00259 | -.00027 | 112.06 | .00215 |
| #2 | -.00092 | 36.966 | .01304 | .24764 | .13564 | .00243 | -.00361 | 111.08 | .00218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04591** | **.05334** | **.06001** | **80.689** | **12.544** | **.04052** | **22.253** | **1.1861** | **.00285** |
| Stddev | .00035 | .00015 | .00033 | .347 | .036 | .00179 | .005 | .0001 | .00028 |
| %RSD | .77265 | .28534 | .54410 | .42994 | .28990 | 4.4296 | .02179 | .00980 | 9.7468 |
| #1 | .04566 | .05323 | .05978 | 80.934 | 12.570 | .03925 | 22.250 | 1.1862 | .00304 |
| #2 | .04616 | .05345 | .06025 | 80.443 | 12.518 | .04179 | 22.256 | 1.1860 | .00265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.773** | **.10114** | **5.5964** | **.07571** | **21.302** | **-.00321** | **-.00062** | **17.129** | **.00206** |
| Stddev | .042 | .00003 | .0039 | .00006 | .028 | .00295 | .00260 | .107 | .00084 |
| %RSD | .15647 | .02753 | .07000 | .08500 | .13177 | 91.950 | 419.57 | .62364 | 40.806 |
| #1 | 26.743 | .10112 | 5.5992 | .07576 | 21.282 | -.00529 | .00122 | 17.204 | .00266 |
| #2 | 26.803 | .10116 | 5.5937 | .07567 | 21.322 | -.00112 | -.00246 | 17.053 | .00147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.1785** | **.03330** | **.11288** | **-.00069** | W **-.08289** | **.03433** | **.54454** | **.00515** |
| Stddev | .0329 | .00097 | .00039 | .00057 | .00581 | .00044 | .00078 | .00175 |
| %RSD | .63575 | 2.9138 | .34718 | 82.177 | 7.0152 | 1.2677 | .14256 | 34.028 |
| #1 | 5.2018 | .03261 | .11260 | -.00109 | -.08700 | .03402 | .54399 | .00639 |
| #2 | 5.1553 | .03399 | .11315 | -.00029 | -.07878 | .03463 | .54509 | .00391 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5507.4** | **69743.** | **3077.8** |
| Stddev | 10.9 | . | 26.3 |
| %RSD | .19744 | .00003 | .85403 |
| #1 | 5515.1 | 69743. | 3059.2 |
| #2 | 5499.7 | 69743. | 3096.3 |

Sample Name: 280-42191-A-62-A@100 Acquired: 5/18/2013 13:47:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174344 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **.00648** | **.00223** | **.06423** | **.00064** | **.00002** | **.00039** | **.71089** | **.00018** |
| Stddev | .00029 | .00528 | .00109 | .00091 | .00008 | .00009 | .00191 | .00759 | .00009 |
| %RSD | 88.335 | 81.448 | 48.870 | 1.4167 | 11.661 | 386.61 | 494.74 | 1.0678 | 48.342 |
| #1 | -.00053 | .01022 | .00146 | .06487 | .00070 | -.00004 | .00173 | .71626 | .00024 |
| #2 | -.00012 | .00275 | .00301 | .06358 | .00059 | .00009 | -.00096 | .70553 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **-.00025** | **.02547** | **.07965** | **1.1661** | **.00141** | **.15310** | **.00112** | **.00326** |
| Stddev | .00019 | .00009 | .00016 | .00131 | .0198 | .00148 | .00435 | .00007 | .00045 |
| %RSD | 115.68 | 36.968 | .63470 | 1.6398 | 1.7015 | 105.51 | 2.8427 | 6.4571 | 13.857 |
| #1 | -.00030 | -.00018 | .02536 | .07873 | 1.1802 | .00246 | .15618 | .00117 | .00358 |
| #2 | -.00003 | -.00032 | .02559 | .08058 | 1.1521 | .00036 | .15002 | .00107 | .00294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5881** | **.00166** | **.00411** | **.00029** | **8.6479** | **-.00128** | **-.00300** | **.05881** | **.00048** |
| Stddev | .0113 | .00033 | .00146 | .00058 | .0346 | .00019 | .00513 | .03987 | .00115 |
| %RSD | .71143 | 19.861 | 35.593 | 200.69 | .40059 | 14.808 | 171.06 | 67.798 | 240.99 |
| #1 | 1.5961 | .00143 | .00514 | .00070 | 8.6723 | -.00115 | .00063 | .03062 | -.00033 |
| #2 | 1.5801 | .00189 | .00308 | -.00012 | 8.6234 | -.00142 | -.00663 | .08701 | .00129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00819** | **.00033** | **.00376** | **.00103** | **-.03533** | **.00055** | W **25.655** | **.00304** |
| Stddev | .00012 | .00050 | .00043 | .00021 | .02812 | .00009 | .013 | .00375 |
| %RSD | 1.4758 | 151.26 | 11.444 | 20.900 | 79.581 | 16.518 | .05158 | 123.30 |
| #1 | .00810 | .00068 | .00406 | .00118 | -.01545 | .00061 | 25.664 | .00039 |
| #2 | .00827 | -.00002 | .00345 | .00088 | -.05521 | .00048 | 25.646 | .00569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5540.2** | **69745.** | **2950.7** |
| Stddev | 4.8 | 124. | 7.3 |
| %RSD | .08611 | .17725 | .24803 |
| #1 | 5543.5 | 69658. | 2945.6 |
| #2 | 5536.8 | 69833. | 2955.9 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 13:49:57 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **49.556** | **-.00026** | **.00363** | **.00094** | **-.00009** | **1.0067** | **-.00446** | **-.00053** | **.00168** | **-.00001** | **.00228** | **49.400** |
| Stddev | .00038 | .244 | .00341 | .00040 | .00007 | .00006 | .0027 | .00097 | .00008 | .00006 | .00009 | .00006 | .391 |
| %RSD | 136.94 | .49180 | 1320.1 | 10.905 | 6.9678 | 67.611 | .26489 | 21.751 | 14.882 | 3.5320 | 767.46 | 2.6483 | .79238 |
| #1 | -.00001 | 49.384 | .00215 | .00335 | .00099 | -.00013 | 1.0086 | -.00378 | -.00058 | .00172 | .00005 | .00223 | 49.123 |
| #2 | -.00054 | 49.729 | -.00267 | .00391 | .00090 | -.00004 | 1.0048 | -.00515 | -.00047 | .00164 | -.00008 | .00232 | 49.677 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01090** | **-.00165** | **.00958** | **.00010** | **-.00172** | **253.12** | **.00085** | **.00719** | **.00157** | **5.0587** | **-.00024** | **.00372** | **.04616** |
| Stddev | .00720 | .00021 | .00114 | .00004 | .00045 | .83 | .00022 | .00030 | .00018 | .0122 | .00288 | .00453 | .03103 |
| %RSD | 66.083 | 12.892 | 11.870 | 39.574 | 25.975 | .32613 | 26.259 | 4.1907 | 11.354 | .24147 | 1222.1 | 121.87 | 67.216 |
| #1 | .01599 | -.00180 | .01039 | .00012 | -.00141 | 252.54 | .00069 | .00741 | .00170 | 5.0674 | -.00227 | .00051 | .02422 |
| #2 | .00581 | -.00150 | .00878 | .00007 | -.00204 | 253.71 | .00101 | .00698 | .00145 | 5.0501 | .00180 | .00692 | .06810 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00069** | **4.9625** | **.00326** | **-.00229** | **10.030** | **.00056** | **.00602** | **-.03082** |
| Stddev | .00084 | .00012 | .0045 | .00076 | .00039 | .087 | .00035 | .00091 | .00019 |
| %RSD | 147.62 | 17.689 | .08968 | 23.410 | 17.196 | .86552 | 63.224 | 15.186 | .60021 |
| #1 | .00117 | .00060 | 4.9657 | .00272 | -.00257 | 9.9687 | .00031 | .00666 | -.03069 |
| #2 | -.00002 | .00078 | 4.9594 | .00379 | -.00201 | 10.091 | .00081 | .00537 | -.03095 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5329.3** | **67122.** | **2907.3** |
| Stddev | 3.1 | 120. | 11.7 |
| %RSD | .05858 | .17854 | .40083 |
| #1 | 5331.5 | 67037. | 2915.5 |
| #2 | 5327.1 | 67206. | 2899.1 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 13:52:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51014** | **.51526** | **1.0089** | **.51019** | **.50577** | **.50288** | **.00121** | **5.1014** | **.50621** | **.51302** | **.50710** | **.50586** | **2.5478** |
| Stddev | .00082 | .00027 | .0041 | .00055 | .00241 | .00392 | .00063 | .0000 | .00053 | .00189 | .00068 | .00125 | .0004 |
| %RSD | .16142 | .05204 | .40611 | .10736 | .47568 | .77888 | 51.902 | .00047 | .10496 | .36857 | .13503 | .24636 | .01489 |
| #1 | .51072 | .51545 | 1.0060 | .50980 | .50747 | .50565 | .00166 | 5.1014 | .50584 | .51436 | .50662 | .50674 | 2.5481 |
| #2 | .50956 | .51507 | 1.0118 | .51057 | .50407 | .50011 | .00077 | 5.1014 | .50659 | .51169 | .50759 | .50498 | 2.5476 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.225** | **1.0527** | **20.286** | **.50712** | **.50936** | **5.1915** | **.51571** | **1.0210** | **1.0228** | **.00041** | **1.0197** | **1.0123** | **5.0713** |
| Stddev | .186 | .0024 | .038 | .00042 | .00104 | .0569 | .00049 | .0018 | .0024 | .00055 | .0000 | .0007 | .0087 |
| %RSD | .35562 | .22641 | .18611 | .08249 | .20387 | 1.0965 | .09480 | .17134 | .23328 | 132.44 | .00052 | .07337 | .17216 |
| #1 | 52.357 | 1.0544 | 20.313 | .50742 | .50863 | 5.2317 | .51536 | 1.0222 | 1.0211 | .00080 | 1.0197 | 1.0128 | 5.0775 |
| #2 | 52.094 | 1.0510 | 20.259 | .50683 | .51009 | 5.1512 | .51605 | 1.0197 | 1.0245 | .00003 | 1.0197 | 1.0118 | 5.0651 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0138** | **.51047** | **.00082** | **.50689** | **1.0185** | **-.02426** | **.50656** | **.51232** | **.49875** |
| Stddev | .0063 | .00121 | .00268 | .00040 | .0064 | .00148 | .00087 | .00013 | .00268 |
| %RSD | .61891 | .23657 | 326.92 | .07957 | .62631 | 6.0833 | .17255 | .02631 | .53806 |
| #1 | 1.0094 | .51132 | -.00108 | .50660 | 1.0140 | -.02531 | .50718 | .51242 | .50065 |
| #2 | 1.0183 | .50961 | .00272 | .50717 | 1.0231 | -.02322 | .50594 | .51223 | .49685 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5442.4** | **68181.** | **2917.2** |
| Stddev | 2.2 | 115. | 19.1 |
| %RSD | .04086 | .16864 | .65399 |
| #1 | 5444.0 | 68263. | 2903.8 |
| #2 | 5440.8 | 68100. | 2930.7 |

Sample Name: CCB Acquired: 5/18/2013 13:54:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **.00030** | **-.00211** | W **.00289** | W **.00067** | **.00000** | **.00056** | **-.00094** | **.00015** | **-.00017** | **-.00022** |
| Stddev | .00015 | .00001 | .00019 | .00049 | .00041 | .00024 | .00130 | .00058 | .00015 | .00033 | .00009 |
| %RSD | 54.818 | 2.7945 | 8.8980 | 16.767 | 61.339 | 9040.4 | 233.53 | 61.595 | 97.944 | 192.03 | 38.685 |
| #1 | -.00038 | .00030 | -.00224 | .00324 | .00038 | .00018 | -.00036 | -.00053 | .00005 | -.00040 | -.00016 |
| #2 | -.00017 | .00031 | -.00198 | .00255 | .00097 | -.00017 | .00147 | -.00135 | .00025 | .00006 | -.00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | .00058 | | | | | | |
| Low Limit | | | | -.00156 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **-.00113** | **.09324** | **-.00134** | **-.00137** | **-.00005** | **.00016** | **.01780** | **-.00035** | **.00169** | **.00145** |
| Stddev | .00032 | .00038 | .09162 | .00204 | .00280 | .00000 | .00027 | .01158 | .00018 | .00202 | .00020 |
| %RSD | 50.467 | 33.652 | 98.266 | 152.25 | 204.15 | 2.4833 | 168.00 | 65.069 | 50.596 | 119.46 | 14.137 |
| #1 | .00086 | -.00086 | .15803 | .00010 | .00061 | -.00005 | .00035 | .02598 | -.00048 | .00026 | .00130 |
| #2 | .00041 | -.00140 | .02845 | -.00278 | -.00335 | -.00005 | -.00003 | .00961 | -.00023 | .00312 | .00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **-.00017** | **.00069** | **.01531** | **.00084** | **.00015** | **-.00018** | **.00019** | **-.00016** | **-.02226** | **.00039** |
| Stddev | .00171 | .00078 | .00176 | .06225 | .00029 | .00004 | .00015 | .00035 | .00031 | .01085 | .00019 |
| %RSD | 3145.0 | 463.88 | 256.29 | 406.62 | 34.378 | 23.215 | 82.287 | 183.71 | 196.95 | 48.736 | 48.072 |
| #1 | -.00115 | .00038 | .00193 | -.02871 | .00063 | .00013 | -.00029 | -.00006 | -.00037 | -.01459 | .00026 |
| #2 | .00126 | -.00072 | -.00056 | .05933 | .00104 | .00018 | -.00008 | .00044 | .00006 | -.02993 | .00052 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00256** | **.00073** |
| Stddev | .00013 | .00127 |
| %RSD | 5.0247 | 174.43 |
| #1 | .00265 | -.00017 |
| #2 | .00247 | .00162 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5474.4** | **68949.** | **2940.4** |
| Stddev | 7.5 | 133. | 30.8 |
| %RSD | .13710 | .19259 | 1.0485 |
| #1 | 5479.7 | 68856. | 2918.6 |
| #2 | 5469.1 | 69043. | 2962.2 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 13:57:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01000** | **.10668** | **.01508** | **.10589** | **.01008** | **.00087** | **.10651** | **.20815** | **.00531** | **.01074** | **.01045** |
| Stddev | .00067 | .00003 | .00017 | .00030 | .00032 | .00010 | .00179 | .00726 | .00012 | .00007 | .00013 |
| %RSD | 6.6704 | .03109 | 1.1016 | .28208 | 3.1874 | 11.825 | 1.6768 | 3.4887 | 2.2770 | .66833 | 1.2180 |
| #1 | .01047 | .10666 | .01497 | .10568 | .01030 | .00094 | .10524 | .20302 | .00540 | .01079 | .01036 |
| #2 | .00953 | .10671 | .01520 | .10611 | .00985 | .00080 | .10777 | .21329 | .00523 | .01069 | .01054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01583** | **.10037** | **3.2948** | W **.01228** | **.21188** | **.01046** | **.02076** | **1.0895** | **.04248** | **3.0441** | W **.01084** |
| Stddev | .00030 | .00012 | .0471 | .00309 | .00029 | .00013 | .00037 | .0227 | .00051 | .0106 | .00104 |
| %RSD | 1.8918 | .11952 | 1.4287 | 25.195 | .13759 | 1.2150 | 1.7900 | 2.0805 | 1.2017 | .34732 | 9.5755 |
| #1 | .01562 | .10028 | 3.3281 | .01447 | .21209 | .01037 | .02102 | 1.0735 | .04212 | 3.0366 | .01011 |
| #2 | .01604 | .10045 | 3.2615 | .01009 | .21168 | .01055 | .02049 | 1.1055 | .04284 | 3.0516 | .01158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | | | | .00900 |
| Range | | | | 20.000% | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00133** | **.01049** | F **.01021** | **.51935** | **.10555** | **.01058** | **.01330** | **.01030** | **.01519** | F **.02517** | **.00989** |
| Stddev | .00025 | .00352 | .00246 | .00596 | .00049 | .00019 | .00038 | .00004 | .00079 | .00420 | .00010 |
| %RSD | 18.583 | 33.526 | 24.125 | 1.1476 | .46536 | 1.7724 | 2.8690 | .38571 | 5.2278 | 16.682 | 1.0142 |
| #1 | -.00116 | .00800 | .00847 | .51513 | .10520 | .01071 | .01303 | .01033 | .01462 | .02220 | .00996 |
| #2 | -.00151 | .01297 | .01195 | .52356 | .10589 | .01044 | .01357 | .01028 | .01575 | .02814 | .00982 |
| Check ? | None | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | -30.000% | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02338** | **.01423** |
| Stddev | .00056 | .00087 |
| %RSD | 2.3870 | 6.1456 |
| #1 | .02377 | .01485 |
| #2 | .02298 | .01361 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5488.7** | **69630.** | **2978.0** |
| Stddev | 3.9 | 90. | .1 |
| %RSD | .07037 | .12913 | .00208 |
| #1 | 5486.0 | 69567. | 2978.0 |
| #2 | 5491.5 | 69694. | 2977.9 |

Sample Name: 280-42238-A-1-A@5 Acquired: 5/18/2013 13:59:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00040** | **8.8766** | **.00275** | **.00225** | **.11064** | **-.00016** | **.00114** | **14.049** | **.00037** |
| Stddev | .00051 | .1016 | .00169 | .00027 | .00089 | .00016 | .00438 | .120 | .00001 |
| %RSD | 129.25 | 1.1440 | 61.235 | 11.966 | .80731 | 99.335 | 385.00 | .85298 | 1.4671 |
| #1 | -.00003 | 8.8048 | .00395 | .00206 | .11001 | -.00027 | .00423 | 13.964 | .00036 |
| #2 | -.00076 | 8.9484 | .00156 | .00244 | .11127 | -.00005 | -.00196 | 14.134 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02689** | **.00750** | **.03778** | **65.914** | **1.3343** | **.00667** | **10.863** | **.76050** | **.00014** |
| Stddev | .00025 | .00005 | .00009 | .003 | .0609 | .00225 | .017 | .00062 | .00005 |
| %RSD | .92100 | .59992 | .23219 | .00477 | 4.5618 | 33.736 | .15570 | .08148 | 33.652 |
| #1 | .02706 | .00747 | .03772 | 65.916 | 1.2912 | .00826 | 10.875 | .76094 | .00011 |
| #2 | .02671 | .00753 | .03784 | 65.912 | 1.3773 | .00508 | 10.851 | .76006 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.63201** | **.01680** | **3.6129** | **.00452** | **.25478** | **.00082** | **-.00215** | **.23470** | **.00496** |
| Stddev | .00154 | .00005 | .0069 | .00076 | .00161 | .00106 | .00397 | .00953 | .00043 |
| %RSD | .24397 | .31336 | .19074 | 16.876 | .63124 | 129.17 | 185.18 | 4.0600 | 8.6602 |
| #1 | .63310 | .01683 | 3.6080 | .00505 | .25364 | .00157 | .00066 | .22797 | .00526 |
| #2 | .63092 | .01676 | 3.6178 | .00398 | .25592 | .00007 | -.00496 | .24144 | .00465 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04329** | **.01468** | **5.4971** | **-.00142** | W **-.07305** | **.16621** | **.11950** | **.06258** |
| Stddev | .00019 | .00098 | .0000 | .00052 | .02755 | .00024 | .00057 | .00038 |
| %RSD | .44049 | 6.6922 | .00042 | 36.679 | 37.718 | .14293 | .47868 | .61136 |
| #1 | .04315 | .01537 | 5.4971 | -.00105 | -.05357 | .16604 | .11990 | .06285 |
| #2 | .04342 | .01398 | 5.4971 | -.00178 | -.09254 | .16637 | .11909 | .06231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5696.2** | **71817.** | **3111.4** |
| Stddev | .1 | 58. | 22.9 |
| %RSD | .00262 | .08120 | .73619 |
| #1 | 5696.1 | 71858. | 3127.6 |
| #2 | 5696.3 | 71775. | 3095.2 |

Sample Name: sd 42238-A-1-A@25 Acquired: 5/18/2013 14:01:55 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00083** | **1.8289** | **-.00013** | **.00225** | **.02331** | **-.00009** | **-.00007** | **2.9658** | **.00012** |
| Stddev | .00056 | .0029 | .00009 | .00025 | .00017 | .00003 | .00081 | .0238 | .00000 |
| %RSD | 66.667 | .16096 | 65.971 | 10.938 | .74688 | 29.432 | 1241.6 | .80349 | 3.1537 |
| #1 | -.00044 | 1.8310 | -.00019 | .00242 | .02343 | -.00007 | -.00064 | 2.9826 | .00012 |
| #2 | -.00123 | 1.8268 | -.00007 | .00207 | .02318 | -.00011 | .00051 | 2.9489 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00528** | **.00133** | **.00796** | **13.954** | **.31965** | **.00213** | **2.2484** | **.15743** | **-.00005** |
| Stddev | .00010 | .00002 | .00036 | .126 | .02706 | .00049 | .0097 | .00031 | .00024 |
| %RSD | 1.9095 | 1.8154 | 4.5753 | .90516 | 8.4659 | 22.768 | .42925 | .19612 | 513.74 |
| #1 | .00535 | .00131 | .00771 | 14.044 | .30052 | .00248 | 2.2552 | .15765 | .00012 |
| #2 | .00521 | .00135 | .00822 | 13.865 | .33879 | .00179 | 2.2416 | .15722 | -.00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09813** | **.00306** | **.74394** | **.00185** | **.05256** | **-.00182** | **.00195** | **.07523** | **.00113** |
| Stddev | .01910 | .00018 | .00378 | .00099 | .00176 | .00028 | .00136 | .02426 | .00102 |
| %RSD | 19.462 | 6.0086 | .50815 | 53.599 | 3.3572 | 15.450 | 69.948 | 32.245 | 90.758 |
| #1 | .08463 | .00319 | .74661 | .00255 | .05131 | -.00202 | .00098 | .09239 | .00040 |
| #2 | .11164 | .00293 | .74127 | .00115 | .05381 | -.00162 | .00291 | .05808 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00902** | **.00178** | **1.1239** | **-.00107** | **-.04216** | **.03422** | **.02787** | **.01397** |
| Stddev | .00004 | .00065 | .0016 | .00050 | .02342 | .00029 | .00027 | .00373 |
| %RSD | .45609 | 36.663 | .14310 | 46.573 | 55.538 | .84339 | .96748 | 26.699 |
| #1 | .00899 | .00132 | 1.1251 | -.00072 | -.02561 | .03443 | .02768 | .01661 |
| #2 | .00905 | .00224 | 1.1228 | -.00142 | -.05872 | .03402 | .02806 | .01133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5563.4** | **69984.** | **2986.7** |
| Stddev | .4 | 118. | .3 |
| %RSD | .00702 | .16870 | .01021 |
| #1 | 5563.7 | 69901. | 2986.9 |
| #2 | 5563.1 | 70067. | 2986.5 |

Sample Name: 42238-A-1-B DU@5 Acquired: 5/18/2013 14:04:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **9.1335** | **.00299** | **.00142** | **.11183** | **-.00017** | **.00007** | **12.006** | **.00020** |
| Stddev | .00069 | .0900 | .00164 | .00014 | .00096 | .00017 | .00425 | .086 | .00005 |
| %RSD | 117.42 | .98493 | 54.979 | 10.038 | .86048 | 103.12 | 5947.8 | .71572 | 25.494 |
| #1 | -.00108 | 9.0699 | .00415 | .00131 | .11115 | -.00005 | .00308 | 11.945 | .00017 |
| #2 | -.00010 | 9.1971 | .00183 | .00152 | .11251 | -.00029 | -.00293 | 12.067 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02231** | **.00597** | **.03467** | **53.948** | **1.2372** | **.00657** | **9.0814** | **.77060** | **.00019** |
| Stddev | .00009 | .00016 | .00023 | .335 | .0412 | .00107 | .0129 | .00051 | .00003 |
| %RSD | .40672 | 2.6688 | .65519 | .62064 | 3.3270 | 16.297 | .14205 | .06570 | 17.284 |
| #1 | .02225 | .00586 | .03483 | 53.711 | 1.2663 | .00581 | 9.0723 | .77024 | .00017 |
| #2 | .02238 | .00609 | .03451 | 54.185 | 1.2081 | .00733 | 9.0905 | .77096 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.78672** | **.01818** | **2.7441** | **.00470** | **.19797** | **.00146** | **.00089** | **.25264** | **.00438** |
| Stddev | .00513 | .00025 | .0032 | .00177 | .00147 | .00090 | .00043 | .01101 | .00054 |
| %RSD | .65147 | 1.3539 | .11481 | 37.670 | .74042 | 61.753 | 48.802 | 4.3594 | 12.348 |
| #1 | .79034 | .01835 | 2.7418 | .00595 | .19693 | .00082 | .00119 | .24485 | .00400 |
| #2 | .78309 | .01801 | 2.7463 | .00345 | .19900 | .00210 | .00058 | .26042 | .00477 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04129** | **.01377** | **4.8501** | **-.00186** | **-.04443** | **.13819** | **.09861** | **.05724** |
| Stddev | .00033 | .00020 | .0011 | .00020 | .01900 | .00118 | .00009 | .00092 |
| %RSD | .79551 | 1.4174 | .02183 | 10.804 | 42.763 | .85474 | .08798 | 1.6108 |
| #1 | .04105 | .01363 | 4.8509 | -.00172 | -.05787 | .13902 | .09868 | .05659 |
| #2 | .04152 | .01391 | 4.8494 | -.00200 | -.03100 | .13735 | .09855 | .05789 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5627.4** | **71109.** | **3050.9** |
| Stddev | 7.7 | 54. | 16.4 |
| %RSD | .13666 | .07645 | .53849 |
| #1 | 5632.9 | 71071. | 3062.5 |
| #2 | 5622.0 | 71148. | 3039.3 |

Sample Name: 42238-A-1-C MS@5 Acquired: 5/18/2013 14:06:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01052** | **12.796** | **.18690** | **.19163** | **.50809** | **.00949** | **.39458** | **28.667** | **.02031** |
| Stddev | .00040 | .135 | .00386 | .00001 | .00254 | .00001 | .00262 | .315 | .00001 |
| %RSD | 3.7637 | 1.0536 | 2.0675 | .00361 | .50014 | .10693 | .66403 | 1.0992 | .06972 |
| #1 | .01080 | 12.701 | .18964 | .19164 | .50629 | .00950 | .39273 | 28.445 | .02030 |
| #2 | .01024 | 12.892 | .18417 | .19163 | .50989 | .00948 | .39644 | 28.890 | .02032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12616** | **.05059** | **.08737** | **73.466** | **11.726** | **.21273** | **22.564** | **.99398** | **.19205** |
| Stddev | .00026 | .00012 | .00023 | .057 | .053 | .00105 | .015 | .00050 | .00052 |
| %RSD | .20884 | .23804 | .26454 | .07813 | .44859 | .49309 | .06778 | .05007 | .27311 |
| #1 | .12635 | .05068 | .08753 | 73.507 | 11.688 | .21198 | 22.575 | .99433 | .19242 |
| #2 | .12598 | .05050 | .08720 | 73.426 | 11.763 | .21347 | 22.553 | .99362 | .19168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.645** | **.11717** | **5.4946** | **.10353** | **.24645** | **.06616** | **.38044** | **1.0070** | **.34698** |
| Stddev | .368 | .00021 | .0035 | .00157 | .00481 | .00065 | .00095 | .0314 | .00068 |
| %RSD | 3.1601 | .17946 | .06424 | 1.5172 | 1.9509 | .98905 | .25004 | 3.1170 | .19679 |
| #1 | 11.385 | .11732 | 5.4971 | .10464 | .24985 | .06662 | .38111 | 1.0292 | .34746 |
| #2 | 11.906 | .11702 | 5.4921 | .10242 | .24305 | .06570 | .37976 | .98478 | .34649 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25057** | **.20482** | **6.2796** | **.38554** | **.34535** | **.28960** | **.23086** | **.17256** |
| Stddev | .00173 | .00150 | .0027 | .00211 | .02437 | .00044 | .00076 | .00442 |
| %RSD | .69066 | .73345 | .04333 | .54626 | 7.0574 | .15210 | .33107 | 2.5638 |
| #1 | .24935 | .20588 | 6.2816 | .38703 | .32812 | .28991 | .23032 | .16943 |
| #2 | .25179 | .20375 | 6.2777 | .38405 | .36259 | .28929 | .23140 | .17569 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5649.7** | **70965.** | **3033.0** |
| Stddev | 25.7 | 277. | 33.9 |
| %RSD | .45576 | .38976 | 1.1171 |
| #1 | 5631.5 | 70770. | 3056.9 |
| #2 | 5667.9 | 71161. | 3009.0 |

Sample Name: 280-42238-A-2-A@5 Acquired: 5/18/2013 14:09:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **7.7725** | **.00051** | **.00236** | **.09037** | **-.00000** | **-.00135** | **11.378** | **.00048** |
| Stddev | .00005 | .0304 | .00088 | .00019 | .00002 | .00005 | .00076 | .002 | .00005 |
| %RSD | 43.521 | .39157 | 173.04 | 8.0727 | .02699 | 3219.0 | 55.920 | .01908 | 10.295 |
| #1 | -.00015 | 7.7940 | .00113 | .00223 | .09039 | .00004 | -.00082 | 11.380 | .00052 |
| #2 | -.00008 | 7.7509 | -.00011 | .00250 | .09035 | -.00004 | -.00189 | 11.377 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02156** | **.00539** | **.03069** | **54.814** | **1.0766** | **.00531** | **8.6168** | **.63980** | **.00035** |
| Stddev | .00011 | .00018 | .00023 | .131 | .0104 | .00209 | .0149 | .00158 | .00011 |
| %RSD | .51990 | 3.2503 | .74641 | .23905 | .96597 | 39.286 | .17269 | .24713 | 32.206 |
| #1 | .02148 | .00551 | .03085 | 54.907 | 1.0692 | .00679 | 8.6063 | .63868 | .00043 |
| #2 | .02164 | .00527 | .03052 | 54.721 | 1.0839 | .00384 | 8.6273 | .64092 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56390** | **.01366** | **2.8139** | **.00483** | **.18304** | **.00323** | **-.00191** | **.27768** | **.00491** |
| Stddev | .00941 | .00022 | .0069 | .00135 | .00644 | .00048 | .00081 | .00220 | .00032 |
| %RSD | 1.6689 | 1.6311 | .24372 | 27.928 | 3.5181 | 14.749 | 42.575 | .79257 | 6.6103 |
| #1 | .55725 | .01350 | 2.8090 | .00578 | .17848 | .00357 | -.00248 | .27924 | .00514 |
| #2 | .57056 | .01381 | 2.8187 | .00388 | .18759 | .00289 | -.00133 | .27613 | .00468 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03904** | **.01334** | **4.6747** | **-.00259** | W **-.06119** | **.13471** | **.09670** | **.05372** |
| Stddev | .00036 | .00179 | .0159 | .00123 | .02823 | .00026 | .00026 | .00193 |
| %RSD | .91252 | 13.438 | .34057 | 47.351 | 46.142 | .18955 | .26768 | 3.5980 |
| #1 | .03929 | .01207 | 4.6634 | -.00345 | -.08115 | .13453 | .09688 | .05509 |
| #2 | .03878 | .01460 | 4.6860 | -.00172 | -.04122 | .13489 | .09652 | .05236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5665.1** | **71836.** | **3070.5** |
| Stddev | 1.5 | 63. | 4.2 |
| %RSD | .02669 | .08830 | .13656 |
| #1 | 5664.1 | 71881. | 3073.5 |
| #2 | 5666.2 | 71791. | 3067.5 |

Sample Name: 280-42238-A-4-A@5 Acquired: 5/18/2013 14:11:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174436 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **8.5120** | **.00257** | **.00163** | **.10281** | **-.00009** | **-.00287** | **14.150** | **.00030** |
| Stddev | .00004 | .1068 | .00189 | .00025 | .00086 | .00012 | .00179 | .129 | .00025 |
| %RSD | 117.99 | 1.2551 | 73.510 | 15.261 | .83601 | 132.40 | 62.435 | .90973 | 82.377 |
| #1 | .00001 | 8.5876 | .00123 | .00145 | .10342 | -.00001 | -.00413 | 14.241 | .00012 |
| #2 | .00006 | 8.4365 | .00391 | .00180 | .10220 | -.00017 | -.00160 | 14.059 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02522** | **.00551** | **.03489** | **57.356** | **1.2055** | **.00464** | **10.073** | **.66155** | **.00056** |
| Stddev | .00008 | .00006 | .00011 | .315 | .0053 | .00018 | .020 | .00035 | .00010 |
| %RSD | .31865 | 1.0715 | .30267 | .54860 | .43617 | 3.8187 | .19997 | .05236 | 18.271 |
| #1 | .02517 | .00555 | .03481 | 57.578 | 1.2092 | .00452 | 10.087 | .66130 | .00064 |
| #2 | .02528 | .00547 | .03496 | 57.133 | 1.2018 | .00477 | 10.059 | .66179 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76097** | **.01554** | **3.3570** | **.00326** | **.23673** | **.00125** | **-.00136** | **.41191** | **.00482** |
| Stddev | .01032 | .00022 | .0154 | .00211 | .00051 | .00072 | .00138 | .06768 | .00097 |
| %RSD | 1.3560 | 1.4200 | .45734 | 64.592 | .21431 | 57.395 | 101.67 | 16.430 | 20.175 |
| #1 | .76826 | .01569 | 3.3461 | .00177 | .23637 | .00074 | -.00038 | .45976 | .00550 |
| #2 | .75367 | .01538 | 3.3678 | .00475 | .23709 | .00176 | -.00234 | .36405 | .00413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04280** | **.01450** | **4.5240** | **-.00103** | W **-.06380** | **.13481** | **.10826** | **.06597** |
| Stddev | .00017 | .00216 | .0054 | .00145 | .00988 | .00052 | .00011 | .00121 |
| %RSD | .40356 | 14.875 | .12031 | 140.45 | 15.479 | .38523 | .10280 | 1.8351 |
| #1 | .04292 | .01602 | 4.5201 | -.00206 | -.07078 | .13444 | .10818 | .06512 |
| #2 | .04268 | .01297 | 4.5278 | -.00001 | -.05682 | .13518 | .10834 | .06683 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5719.5** | **72316.** | **3078.2** |
| Stddev | 4.5 | 46. | 30.0 |
| %RSD | .07908 | .06355 | .97553 |
| #1 | 5722.7 | 72348. | 3057.0 |
| #2 | 5716.3 | 72283. | 3099.5 |

Sample Name: 280-42191-A-52-A@100 Acquired: 5/18/2013 14:13:49 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.00974** | **-.00071** | **.01457** | **.00047** | **-.00010** | **-.00030** | **.80449** | **.00114** |
| Stddev | .00014 | .00367 | .00238 | .00048 | .00064 | .00007 | .00223 | .00802 | .00010 |
| %RSD | 31.715 | 37.660 | 337.73 | 3.3255 | 134.91 | 74.550 | 747.87 | .99640 | 8.7408 |
| #1 | -.00035 | .01233 | -.00239 | .01491 | .00002 | -.00015 | -.00187 | .81016 | .00121 |
| #2 | -.00056 | .00715 | .00098 | .01422 | .00092 | -.00005 | .00128 | .79883 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00000** | **-.00026** | **.00226** | **.08801** | **1.0020** | **.00333** | **.10276** | **.00087** | **.00273** |
| Stddev | .00001 | .00002 | .00017 | .00695 | .0310 | .00149 | .00519 | .00002 | .00008 |
| %RSD | 365.36 | 6.5806 | 7.5896 | 7.9021 | 3.0903 | 44.723 | 5.0498 | 2.3343 | 2.8049 |
| #1 | -.00001 | -.00025 | .00239 | .09293 | 1.0238 | .00438 | .10643 | .00088 | .00278 |
| #2 | .00001 | -.00027 | .00214 | .08309 | .98006 | .00228 | .09909 | .00085 | .00267 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8837** | **.00863** | **.00717** | **.00074** | **12.667** | **-.00035** | **.00121** | **.03198** | **.00109** |
| Stddev | .0121 | .00018 | .00102 | .00064 | .139 | .00011 | .00044 | .01627 | .00018 |
| %RSD | .31165 | 2.1088 | 14.266 | 86.301 | 1.0997 | 31.519 | 36.859 | 50.867 | 16.023 |
| #1 | 3.8751 | .00850 | .00645 | .00119 | 12.766 | -.00042 | .00089 | .04348 | .00097 |
| #2 | 3.8923 | .00876 | .00790 | .00029 | 12.569 | -.00027 | .00152 | .02048 | .00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00827** | **.00087** | **.00419** | **.00016** | W **-.05617** | **.00051** | W **49.444** | **.00200** |
| Stddev | .00025 | .00097 | .00013 | .00025 | .05391 | .00052 | .162 | .00251 |
| %RSD | 3.0482 | 111.55 | 3.1151 | 162.86 | 95.963 | 101.18 | .32769 | 125.31 |
| #1 | .00845 | .00018 | .00410 | .00033 | -.09429 | .00088 | 49.558 | .00023 |
| #2 | .00809 | .00155 | .00428 | -.00002 | -.01806 | .00015 | 49.329 | .00377 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 45.000 | | 10.000 | |
| Low Limit | | | | | -.05000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5560.4** | **70283.** | **2985.9** |
| Stddev | 29.9 | 63. | 4.2 |
| %RSD | .53774 | .08974 | .13909 |
| #1 | 5539.2 | 70238. | 2988.9 |
| #2 | 5581.5 | 70327. | 2983.0 |

Sample Name: 280-42191-A-53-A@100 Acquired: 5/18/2013 14:16:17 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.01333** | **-.00082** | **.01684** | **.00084** | **-.00010** | **.00010** | **.67960** | **.00169** |
| Stddev | .00005 | .00057 | .00108 | .00019 | .00027 | .00005 | .00101 | .00409 | .00013 |
| %RSD | 25.884 | 4.2773 | 132.08 | 1.1455 | 32.002 | 48.886 | 1047.4 | .60195 | 7.4616 |
| #1 | .00015 | .01374 | -.00158 | .01670 | .00065 | -.00013 | -.00062 | .67670 | .00178 |
| #2 | .00022 | .01293 | -.00005 | .01698 | .00103 | -.00006 | .00081 | .68249 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **-.00050** | **.00204** | **.03329** | **.89426** | **.00401** | **.08731** | **.00092** | **.00214** |
| Stddev | .00021 | .00011 | .00005 | .00066 | .01755 | .00164 | .00138 | .00005 | .00031 |
| %RSD | 1345.2 | 21.199 | 2.5224 | 1.9945 | 1.9621 | 40.793 | 1.5843 | 5.7090 | 14.347 |
| #1 | .00013 | -.00058 | .00201 | .03282 | .90667 | .00517 | .08633 | .00088 | .00192 |
| #2 | -.00017 | -.00043 | .00208 | .03376 | .88185 | .00286 | .08829 | .00095 | .00235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6575** | **.00714** | **.00356** | **.00110** | **11.323** | **-.00209** | **.00139** | **.03507** | **.00066** |
| Stddev | .0248 | .00051 | .00291 | .00065 | .071 | .00182 | .00499 | .00007 | .00075 |
| %RSD | 1.4988 | 7.1296 | 81.747 | 58.690 | .63056 | 87.413 | 359.49 | .19214 | 113.37 |
| #1 | 1.6751 | .00750 | .00561 | .00064 | 11.373 | -.00080 | -.00214 | .03502 | .00013 |
| #2 | 1.6400 | .00678 | .00150 | .00156 | 11.272 | -.00338 | .00491 | .03512 | .00119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00768** | **.00202** | **.00074** | **.00169** | W **-.05610** | **.00047** | W **45.488** | **-.00038** |
| Stddev | .00013 | .00166 | .00048 | .00099 | .00384 | .00030 | .115 | .00372 |
| %RSD | 1.6816 | 82.173 | 64.554 | 58.361 | 6.8519 | 63.417 | .25337 | 966.82 |
| #1 | .00778 | .00085 | .00108 | .00239 | -.05882 | .00069 | 45.407 | .00224 |
| #2 | .00759 | .00319 | .00040 | .00100 | -.05338 | .00026 | 45.570 | -.00301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 45.000 | | 10.000 | |
| Low Limit | | | | | -.05000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5524.8** | **69943.** | **2963.8** |
| Stddev | 17.7 | 264. | 7.0 |
| %RSD | .32015 | .37677 | .23769 |
| #1 | 5512.3 | 70130. | 2958.8 |
| #2 | 5537.3 | 69757. | 2968.8 |

Sample Name: 280-42191-A-57-A@100 Acquired: 5/18/2013 14:18:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **.00396** | **-.00241** | **.02748** | **.00153** | **-.00012** | **.00134** | **5.4493** | **.00004** |
| Stddev | .00061 | .00016 | .00006 | .00040 | .00052 | .00006 | .00184 | .0145 | .00012 |
| %RSD | 130.36 | 3.9706 | 2.3249 | 1.4541 | 33.892 | 45.464 | 137.12 | .26529 | 265.88 |
| #1 | -.00090 | .00385 | -.00245 | .02776 | .00116 | -.00008 | .00004 | 5.4595 | -.00004 |
| #2 | -.00004 | .00407 | -.00237 | .02720 | .00189 | -.00016 | .00265 | 5.4391 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **-.00015** | **.00172** | **.02043** | **1.1608** | **.00232** | **2.0975** | **.00119** | **.00463** |
| Stddev | .00052 | .00012 | .00055 | .00092 | .0003 | .00069 | .0010 | .00003 | .00011 |
| %RSD | 866.62 | 81.439 | 32.311 | 4.4868 | .02177 | 29.905 | .04794 | 2.1449 | 2.4688 |
| #1 | -.00031 | -.00007 | .00211 | .01979 | 1.1606 | .00281 | 2.0982 | .00120 | .00471 |
| #2 | .00043 | -.00024 | .00132 | .02108 | 1.1610 | .00183 | 2.0968 | .00117 | .00455 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4654** | **.00083** | **.00257** | **.00078** | **4.8295** | **.00254** | **-.00306** | **.00899** | **.00126** |
| Stddev | .0130 | .00011 | .00196 | .00212 | .0013 | .00064 | .00296 | .02613 | .00074 |
| %RSD | .88397 | 13.358 | 76.157 | 272.98 | .02672 | 25.226 | 96.609 | 290.68 | 58.365 |
| #1 | 1.4745 | .00090 | .00119 | .00228 | 4.8304 | .00208 | -.00097 | -.00949 | .00074 |
| #2 | 1.4562 | .00075 | .00396 | -.00072 | 4.8286 | .00299 | -.00515 | .02747 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01736** | **.00078** | **.00044** | **-.00019** | **-.03321** | **.00040** | W **13.161** | **.00045** |
| Stddev | .00007 | .00109 | .00035 | .00033 | .00412 | .00029 | .043 | .00148 |
| %RSD | .37829 | 140.11 | 79.021 | 170.22 | 12.412 | 72.089 | .32481 | 332.85 |
| #1 | .01731 | .00155 | .00019 | .00004 | -.03029 | .00061 | 13.191 | .00150 |
| #2 | .01741 | .00001 | .00069 | -.00043 | -.03612 | .00020 | 13.131 | -.00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5503.3** | **68815.** | **2926.9** |
| Stddev | 4.3 | 353. | 11.8 |
| %RSD | .07736 | .51319 | .40376 |
| #1 | 5506.3 | 68565. | 2918.5 |
| #2 | 5500.3 | 69065. | 2935.2 |

Sample Name: 280-42191-A-58-A@100 Acquired: 5/18/2013 14:21:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174343 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **.00267** | **.00102** | **.01436** | **.00080** | **-.00004** | **.00016** | **.54484** | **.00047** |
| Stddev | .00071 | .00019 | .00428 | .00066 | .00025 | .00002 | .00136 | .00439 | .00009 |
| %RSD | 117.72 | 7.0265 | 418.22 | 4.6270 | 31.219 | 41.907 | 872.47 | .80499 | 19.776 |
| #1 | -.00110 | .00253 | .00405 | .01483 | .00062 | -.00005 | .00111 | .54174 | .00041 |
| #2 | -.00010 | .00280 | -.00200 | .01389 | .00098 | -.00003 | -.00080 | .54794 | .00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **-.00041** | **.01124** | **.03707** | **2.2620** | **.00166** | **.19316** | **.00067** | **.00733** |
| Stddev | .00018 | .00021 | .00037 | .00234 | .0179 | .00041 | .00045 | .00006 | .00019 |
| %RSD | 132.27 | 49.993 | 3.2994 | 6.3180 | .78895 | 24.897 | .23449 | 8.5475 | 2.6321 |
| #1 | .00001 | -.00056 | .01151 | .03542 | 2.2747 | .00137 | .19284 | .00063 | .00747 |
| #2 | .00026 | -.00027 | .01098 | .03873 | 2.2494 | .00195 | .19348 | .00071 | .00720 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2564** | **.00250** | **.00231** | **.00034** | **18.436** | **.00041** | **.00049** | **.03542** | **.00050** |
| Stddev | .0131 | .00027 | .00055 | .00180 | .047 | .00055 | .00030 | .00757 | .00002 |
| %RSD | .57866 | 10.790 | 23.741 | 529.27 | .25240 | 135.82 | 61.569 | 21.362 | 4.5946 |
| #1 | 2.2472 | .00269 | .00192 | .00161 | 18.469 | .00080 | .00071 | .04076 | .00048 |
| #2 | 2.2657 | .00231 | .00270 | -.00093 | 18.403 | .00002 | .00028 | .03007 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00674** | **-.00027** | **.00078** | **.00051** | **-.00842** | **.00039** | W **39.427** | **-.00044** |
| Stddev | .00009 | .00049 | .00059 | .00003 | .02551 | .00021 | .013 | .00211 |
| %RSD | 1.2676 | 181.22 | 75.653 | 5.8394 | 302.85 | 52.534 | .03318 | 479.01 |
| #1 | .00680 | -.00062 | .00120 | .00049 | .00962 | .00054 | 39.436 | .00105 |
| #2 | .00668 | .00008 | .00036 | .00054 | -.02646 | .00025 | 39.418 | -.00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5541.5** | **69139.** | **2928.3** |
| Stddev | 39.8 | 65. | 9.0 |
| %RSD | .71911 | .09376 | .30607 |
| #1 | 5513.3 | 69093. | 2922.0 |
| #2 | 5569.6 | 69185. | 2934.6 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 14:23:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **48.695** | **.00030** | **.00198** | **.00082** | **.00008** | **.99540** | **-.00312** | **-.00047** | **.00194** | **-.00009** | **.00203** | **48.442** |
| Stddev | .00006 | .081 | .00139 | .00030 | .00007 | .00001 | .00306 | .00351 | .00005 | .00003 | .00014 | .00049 | .095 |
| %RSD | 19.193 | .16588 | 470.64 | 15.079 | 8.0491 | 14.549 | .30695 | 112.60 | 10.065 | 1.7621 | 154.66 | 24.187 | .19567 |
| #1 | .00029 | 48.638 | .00128 | .00177 | .00077 | .00007 | .99756 | -.00560 | -.00044 | .00191 | .00001 | .00238 | 48.509 |
| #2 | .00038 | 48.752 | -.00069 | .00220 | .00087 | .00009 | .99324 | -.00064 | -.00051 | .00196 | -.00019 | .00168 | 48.375 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05229** | **-.00114** | **.00672** | **.00007** | **-.00184** | **249.54** | **.00131** | **.00701** | **.00039** | **4.9955** | **.00144** | **.00293** | **.00551** |
| Stddev | .00761 | .00023 | .00316 | .00006 | .00006 | .36 | .00023 | .00164 | .00401 | .0049 | .00292 | .00584 | .00123 |
| %RSD | 14.549 | 20.515 | 47.053 | 77.980 | 2.9936 | .14325 | 17.260 | 23.390 | 1019.8 | .09842 | 203.43 | 199.20 | 22.392 |
| #1 | .05767 | -.00131 | .00895 | .00011 | -.00180 | 249.29 | .00147 | .00817 | -.00244 | 4.9990 | -.00063 | -.00120 | .00463 |
| #2 | .04691 | -.00097 | .00448 | .00003 | -.00188 | 249.79 | .00115 | .00585 | .00323 | 4.9920 | .00351 | .00706 | .00638 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **.00044** | **4.8917** | **.00324** | **-.00047** | **9.8947** | **.00027** | **.01559** | **-.02999** |
| Stddev | .00035 | .00010 | .0148 | .00032 | .00107 | .0837 | .00084 | .00140 | .00643 |
| %RSD | 20.090 | 23.354 | .30346 | 9.9412 | 228.70 | .84572 | 311.34 | 8.9976 | 21.456 |
| #1 | .00149 | .00037 | 4.8812 | .00347 | -.00122 | 9.9539 | -.00033 | .01658 | -.02544 |
| #2 | .00199 | .00051 | 4.9022 | .00301 | .00029 | 9.8356 | .00087 | .01460 | -.03454 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5414.2** | **68288.** | **2980.7** |
| Stddev | 23.4 | 306. | 3.4 |
| %RSD | .43201 | .44826 | .11319 |
| #1 | 5397.7 | 68072. | 2978.3 |
| #2 | 5430.8 | 68505. | 2983.1 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 14:26:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50221** | **.51025** | **1.0014** | **.50422** | **.50115** | **.49742** | **-.00009** | **5.0445** | **.50093** | **.50732** | **.50305** | **.50123** | **2.5282** |
| Stddev | .00005 | .00103 | .0032 | .00015 | .00086 | .00270 | .00090 | .0204 | .00148 | .00048 | .00051 | .00180 | .0120 |
| %RSD | .00970 | .20179 | .31992 | .02892 | .17125 | .54229 | 988.97 | .40345 | .29497 | .09466 | .10162 | .36008 | .47272 |
| #1 | .50224 | .51098 | .99912 | .50412 | .50175 | .49932 | .00054 | 5.0589 | .50198 | .50766 | .50341 | .50251 | 2.5367 |
| #2 | .50217 | .50952 | 1.0036 | .50432 | .50054 | .49551 | -.00072 | 5.0301 | .49989 | .50698 | .50269 | .49996 | 2.5198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.640** | **1.0365** | **20.105** | **.50144** | **.50539** | **5.1316** | **.51051** | **1.0098** | **1.0124** | **.00033** | **1.0118** | **1.0092** | **5.0302** |
| Stddev | .304 | .0017 | .014 | .00009 | .00221 | .0031 | .00253 | .0071 | .0020 | .00011 | .0017 | .0011 | .0078 |
| %RSD | .58919 | .16086 | .07075 | .01717 | .43782 | .06049 | .49566 | .69918 | .19431 | 34.483 | .17072 | .10467 | .15569 |
| #1 | 51.855 | 1.0377 | 20.116 | .50150 | .50695 | 5.1294 | .51230 | 1.0148 | 1.0138 | .00041 | 1.0131 | 1.0099 | 5.0357 |
| #2 | 51.425 | 1.0353 | 20.095 | .50138 | .50382 | 5.1338 | .50872 | 1.0048 | 1.0110 | .00025 | 1.0106 | 1.0084 | 5.0246 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0057** | **.50281** | **.00078** | **.50073** | **1.0119** | **-.02935** | **.50070** | **.50837** | **.49645** |
| Stddev | .0031 | .00260 | .00089 | .00035 | .0014 | .05454 | .00173 | .00120 | .00213 |
| %RSD | .30679 | .51787 | 115.25 | .06925 | .13480 | 185.81 | .34503 | .23681 | .42817 |
| #1 | 1.0079 | .50465 | .00141 | .50048 | 1.0128 | -.06791 | .50192 | .50922 | .49795 |
| #2 | 1.0035 | .50097 | .00014 | .50097 | 1.0109 | .00921 | .49947 | .50752 | .49495 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5520.0** | **69384.** | **2956.9** |
| Stddev | 12.6 | 98. | 21.5 |
| %RSD | .22764 | .14087 | .72659 |
| #1 | 5511.1 | 69315. | 2941.7 |
| #2 | 5528.9 | 69453. | 2972.1 |

Sample Name: CCB Acquired: 5/18/2013 14:28:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.00201** | **.00123** | W **.00232** | W **.00063** | **-.00002** | **.00023** | **-.00296** | **.00012** | **-.00012** | **-.00016** |
| Stddev | .00008 | .00129 | .00036 | .00011 | .00054 | .00001 | .00005 | .00556 | .00020 | .00006 | .00003 |
| %RSD | 38.111 | 63.912 | 29.293 | 4.5598 | 86.129 | 38.699 | 20.653 | 188.20 | 170.54 | 48.202 | 18.380 |
| #1 | -.00028 | .00110 | .00098 | .00240 | .00101 | -.00001 | .00027 | .00098 | .00026 | -.00016 | -.00019 |
| #2 | -.00016 | .00292 | .00149 | .00225 | .00025 | -.00003 | .00020 | -.00689 | -.00002 | -.00008 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | .00058 | | | | | | |
| Low Limit | | | | -.00156 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **-.00293** | **.10655** | **.00150** | **.00152** | **-.00003** | **.00007** | **.02672** | **-.00036** | **.00112** | **.00175** |
| Stddev | .00001 | .00558 | .05719 | .00054 | .00168 | .00001 | .00017 | .00127 | .00012 | .00134 | .00149 |
| %RSD | 1.1789 | 190.51 | 53.672 | 36.021 | 110.33 | 39.232 | 260.36 | 4.7546 | 33.565 | 120.06 | 85.158 |
| #1 | .00045 | .00102 | .14699 | .00188 | .00271 | -.00002 | .00019 | .02582 | -.00045 | .00017 | .00280 |
| #2 | .00046 | -.00687 | .06611 | .00111 | .00034 | -.00003 | -.00006 | .02762 | -.00028 | .00207 | .00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **-.00008** | **-.00071** | **.01812** | **.00085** | **.00008** | **.00219** | **.00040** | **.00078** | **-.03571** | **.00027** |
| Stddev | .00370 | .00279 | .00039 | .00831 | .00063 | .00004 | .00050 | .00049 | .00005 | .03123 | .00004 |
| %RSD | 2848.3 | 3610.7 | 54.757 | 45.847 | 73.920 | 47.974 | 22.988 | 121.96 | 6.8378 | 87.447 | 13.637 |
| #1 | -.00275 | .00190 | -.00044 | .01224 | .00130 | .00005 | .00254 | .00005 | .00082 | -.05780 | .00030 |
| #2 | .00249 | -.00205 | -.00099 | .02399 | .00041 | .00010 | .00183 | .00074 | .00074 | -.01363 | .00025 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00396** | W **-.00336** |
| Stddev | .00013 | .00109 |
| %RSD | 3.3316 | 32.484 |
| #1 | .00406 | -.00259 |
| #2 | .00387 | -.00413 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5469.3** | **69267.** | **2934.4** |
| Stddev | 19.5 | 10. | 28.8 |
| %RSD | .35633 | .01479 | .98104 |
| #1 | 5483.1 | 69259. | 2914.1 |
| #2 | 5455.6 | 69274. | 2954.8 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 14:30:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01040** | **.10538** | **.01353** | **.10424** | **.01048** | **.00105** | **.10567** | **.20686** | **.00519** | **.01049** | **.01034** |
| Stddev | .00005 | .00048 | .00247 | .00018 | .00010 | .00005 | .00128 | .00302 | .00010 | .00011 | .00007 |
| %RSD | .49817 | .45387 | 18.222 | .17508 | .97851 | 5.0313 | 1.2084 | 1.4594 | 1.8915 | 1.0084 | .70181 |
| #1 | .01044 | .10504 | .01179 | .10411 | .01056 | .00109 | .10658 | .20899 | .00526 | .01056 | .01029 |
| #2 | .01036 | .10572 | .01528 | .10437 | .01041 | .00101 | .10477 | .20472 | .00512 | .01041 | .01039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01633** | **.10689** | **3.2788** | W **.01261** | **.20817** | **.01026** | **.02081** | **1.0763** | **.04159** | **3.0080** | **.00962** |
| Stddev | .00021 | .00116 | .0640 | .00283 | .00074 | .00003 | .00014 | .0075 | .00032 | .0072 | .00072 |
| %RSD | 1.2694 | 1.0817 | 1.9522 | 22.451 | .35763 | .30684 | .68122 | .69273 | .77107 | .23827 | 7.5019 |
| #1 | .01647 | .10607 | 3.3241 | .01061 | .20870 | .01023 | .02071 | 1.0816 | .04136 | 3.0131 | .01013 |
| #2 | .01618 | .10771 | 3.2336 | .01461 | .20764 | .01028 | .02091 | 1.0710 | .04181 | 3.0030 | .00911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | | | | |
| Range | | | | 20.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00139** | W **.01252** | **.01597** | **.53965** | **.10388** | **.01041** | **.01483** | **.01045** | **.01600** | F **-.01025** | **.01009** |
| Stddev | .00114 | .00323 | .00430 | .01394 | .00150 | .00011 | .00234 | .00060 | .00075 | .06249 | .00017 |
| %RSD | 81.894 | 25.807 | 26.900 | 2.5824 | 1.4431 | 1.0789 | 15.777 | 5.7263 | 4.7131 | 609.90 | 1.6765 |
| #1 | .00219 | .01481 | .01293 | .54950 | .10494 | .01049 | .01318 | .01002 | .01653 | .03394 | .00997 |
| #2 | .00058 | .01024 | .01901 | .52979 | .10282 | .01033 | .01648 | .01087 | .01547 | -.05443 | .01020 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02449** | **.01208** |
| Stddev | .00029 | .00270 |
| %RSD | 1.1921 | 22.321 |
| #1 | .02428 | .01018 |
| #2 | .02469 | .01399 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5529.2** | **69787.** | **2937.2** |
| Stddev | 1.8 | 155. | 17.5 |
| %RSD | .03282 | .22160 | .59539 |
| #1 | 5527.9 | 69678. | 2924.8 |
| #2 | 5530.5 | 69897. | 2949.5 |

Sample Name: 280-42099-A-5-A  Acquired: 5/18/2013 14:33:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **.00490** | **.00051** | **2.0889** | **.03428** | **-.00028** | **-.00352** | **80.159** | **.00012** |
| Stddev | .00049 | .00002 | .00092 | .0058 | .00036 | .00001 | .00444 | .123 | .00012 |
| %RSD | 79.878 | .45307 | 178.60 | .27592 | 1.0572 | 2.4241 | 126.17 | .15380 | 100.92 |
| #1 | -.00096 | .00489 | .00116 | 2.0848 | .03454 | -.00028 | -.00038 | 80.246 | .00020 |
| #2 | -.00027 | .00492 | -.00013 | 2.0930 | .03403 | -.00029 | -.00665 | 80.072 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **.00008** | **.00093** | **.07797** | **11.774** | **.10607** | **12.585** | **.87884** | **.07833** |
| Stddev | .00006 | .00017 | .00010 | .00946 | .075 | .00039 | .010 | .00012 | .00062 |
| %RSD | 29.236 | 200.37 | 10.908 | 12.128 | .64120 | .36424 | .07719 | .01350 | .79466 |
| #1 | -.00017 | -.00003 | .00100 | .07129 | 11.828 | .10580 | 12.592 | .87876 | .07789 |
| #2 | -.00026 | .00020 | .00086 | .08466 | 11.721 | .10635 | 12.579 | .87893 | .07877 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **198.16** | **.00132** | **.26061** | **.00109** | **133.07** | **-.00243** | **-.00097** | **23.428** | **-.00038** |
| Stddev | .11 | .00005 | .00064 | .00056 | .38 | .00168 | .00144 | .103 | .00029 |
| %RSD | .05532 | 3.5948 | .24716 | 50.960 | .28821 | 69.012 | 148.86 | .43771 | 75.797 |
| #1 | 198.24 | .00129 | .26107 | .00070 | 132.80 | -.00361 | .00005 | 23.500 | -.00059 |
| #2 | 198.08 | .00135 | .26016 | .00149 | 133.34 | -.00124 | -.00199 | 23.355 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5910** | **.00046** | **.00035** | **-.00038** | W **-.05154** | **.00102** | **.00406** | **.00222** |
| Stddev | .0039 | .00371 | .00016 | .00059 | .04363 | .00083 | .00013 | .00006 |
| %RSD | .24581 | 807.32 | 46.023 | 157.35 | 84.656 | 81.128 | 3.1240 | 2.6702 |
| #1 | 1.5938 | -.00217 | .00024 | -.00079 | -.02069 | .00160 | .00397 | .00218 |
| #2 | 1.5882 | .00309 | .00046 | .00004 | -.08239 | .00043 | .00415 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5452.5** | **68427.** | **2938.9** |
| Stddev | 19.8 | 178. | 25.8 |
| %RSD | .36315 | .26060 | .87778 |
| #1 | 5438.5 | 68301. | 2957.2 |
| #2 | 5466.5 | 68554. | 2920.7 |

Sample Name: 280-42099-A-6-A Acquired: 5/18/2013 14:35:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q3 Custom ID2: Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **.00245** | **.03920** | **3.0163** | **.09483** | **-.00012** | **-.00857** | **143.80** | **.00000** |
| Stddev | .00045 | .00024 | .00132 | .0013 | .00063 | .00006 | .00028 | .59 | .00004 |
| %RSD | 42.909 | 9.8882 | 3.3646 | .04301 | .65952 | 52.258 | 3.2341 | .40754 | 1723.8 |
| #1 | .00136 | .00228 | .03827 | 3.0154 | .09439 | -.00007 | -.00877 | 143.38 | -.00002 |
| #2 | .00073 | .00262 | .04014 | 3.0172 | .09527 | -.00016 | -.00838 | 144.21 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00109** | **.00100** | **.06271** | **17.596** | **.17014** | **26.091** | **4.5001** | **.00044** |
| Stddev | .00029 | .00015 | .00025 | .00030 | .090 | .00154 | .039 | .0545 | .00035 |
| %RSD | 248.63 | 14.173 | 24.985 | .48088 | .51086 | .90506 | .14940 | 1.2102 | 79.446 |
| #1 | .00009 | .00120 | .00118 | .06250 | 17.533 | .17123 | 26.064 | 4.4616 | .00069 |
| #2 | -.00032 | .00098 | .00082 | .06292 | 17.660 | .16905 | 26.119 | 4.5386 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **229.23** | **.00172** | **.66145** | **.00178** | **110.99** | **-.00122** | **-.00064** | **27.426** | **.00042** |
| Stddev | .24 | .00007 | .00048 | .00099 | .09 | .00123 | .00128 | .165 | .00016 |
| %RSD | .10610 | 4.3291 | .07251 | 55.559 | .08527 | 100.70 | 199.27 | .60295 | 38.813 |
| #1 | 229.06 | .00177 | .66178 | .00108 | 110.92 | -.00209 | -.00155 | 27.309 | .00053 |
| #2 | 229.40 | .00167 | .66111 | .00248 | 111.06 | -.00035 | .00026 | 27.543 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0824** | **-.00041** | **.00079** | **-.00330** | W **-.07336** | **.00172** | **.00353** | **.00306** |
| Stddev | .0170 | .00044 | .00049 | .00170 | .02521 | .00005 | .00012 | .00285 |
| %RSD | .55095 | 106.91 | 61.368 | 51.501 | 34.367 | 3.0392 | 3.4278 | 93.323 |
| #1 | 3.0703 | -.00010 | .00045 | -.00210 | -.09119 | .00176 | .00362 | .00508 |
| #2 | 3.0944 | -.00072 | .00114 | -.00450 | -.05553 | .00168 | .00345 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5532.7** | **71240.** | **3121.3** |
| Stddev | 2.6 | 165. | 11.8 |
| %RSD | .04664 | .23186 | .37908 |
| #1 | 5530.9 | 71357. | 3113.0 |
| #2 | 5534.5 | 71123. | 3129.7 |

Sample Name: 280-42099-A-7-A  Acquired: 5/18/2013 14:38:06  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.02645** | **.03626** | **2.9639** | **.09386** | **-.00017** | **-.00126** | **143.42** | **.00045** |
| Stddev | .00059 | .00384 | .00076 | .0102 | .00074 | .00006 | .00139 | .05 | .00026 |
| %RSD | 174.53 | 14.509 | 2.0934 | .34383 | .78798 | 35.737 | 110.47 | .03481 | 57.641 |
| #1 | .00076 | .02916 | .03572 | 2.9567 | .09438 | -.00012 | -.00224 | 143.38 | .00063 |
| #2 | -.00008 | .02374 | .03680 | 2.9711 | .09334 | -.00021 | -.00027 | 143.45 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **.00120** | **.00092** | **.06798** | **17.567** | **.16856** | **26.124** | **4.4871** | **.00060** |
| Stddev | .00004 | .00016 | .00003 | .00495 | .021 | .00139 | .006 | .0107 | .00014 |
| %RSD | 168.16 | 13.075 | 3.0235 | 7.2783 | .12000 | .82499 | .02448 | .23810 | 23.977 |
| #1 | -.00005 | .00109 | .00090 | .07148 | 17.552 | .16954 | 26.129 | 4.4795 | .00070 |
| #2 | .00000 | .00131 | .00094 | .06448 | 17.582 | .16758 | 26.120 | 4.4946 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **227.74** | **.00382** | **.65073** | **.00137** | **108.14** | **-.00213** | **-.00213** | **27.418** | **.00096** |
| Stddev | .09 | .00037 | .00855 | .00019 | .21 | .00244 | .00318 | .141 | .00069 |
| %RSD | .03772 | 9.7672 | 1.3141 | 13.617 | .19201 | 114.63 | 149.45 | .51563 | 72.055 |
| #1 | 227.81 | .00408 | .64468 | .00150 | 107.99 | -.00385 | -.00438 | 27.518 | .00047 |
| #2 | 227.68 | .00355 | .65677 | .00124 | 108.29 | -.00040 | .00012 | 27.318 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0608** | **-.00233** | **.00107** | **-.00099** | **-.04519** | **.00177** | **.00437** | **.00123** |
| Stddev | .0017 | .00106 | .00038 | .00041 | .02428 | .00035 | .00057 | .00166 |
| %RSD | .05448 | 45.605 | 35.322 | 42.082 | 53.729 | 20.070 | 13.081 | 134.28 |
| #1 | 3.0596 | -.00158 | .00134 | -.00069 | -.02802 | .00202 | .00397 | .00006 |
| #2 | 3.0620 | -.00309 | .00080 | -.00128 | -.06236 | .00152 | .00477 | .00240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5398.7** | **69193.** | **3020.1** |
| Stddev | 28.3 | 59. | 6.4 |
| %RSD | .52411 | .08475 | .21113 |
| #1 | 5418.7 | 69234. | 3024.6 |
| #2 | 5378.7 | 69151. | 3015.5 |

Sample Name: 280-42099-A-8-A Acquired: 5/18/2013 14:40:37 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q3 Custom ID2: Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **.01263** | **.01820** | **2.1868** | **.01808** | **.00009** | **-.00323** | **86.535** | **.00024** |
| Stddev | .00005 | .00019 | .00148 | .0039 | .00035 | .00012 | .00318 | .097 | .00011 |
| %RSD | 11.091 | 1.5261 | 8.1415 | .17980 | 1.9365 | 132.92 | 98.296 | .11257 | 44.395 |
| #1 | -.00052 | .01250 | .01925 | 2.1840 | .01833 | .00018 | -.00099 | 86.466 | .00032 |
| #2 | -.00044 | .01277 | .01715 | 2.1895 | .01783 | .00001 | -.00548 | 86.604 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.00160** | **.00141** | **.06456** | **14.212** | **.14478** | **16.367** | **.00486** | **.03888** |
| Stddev | .00003 | .00004 | .00014 | .00252 | .042 | .00069 | .028 | .00010 | .00004 |
| %RSD | 11.367 | 2.2373 | 10.151 | 3.8994 | .29451 | .47721 | .17224 | 1.9537 | .09676 |
| #1 | -.00032 | .00162 | .00151 | .06278 | 14.241 | .14430 | 16.347 | .00493 | .03891 |
| #2 | -.00027 | .00157 | .00131 | .06634 | 14.182 | .14527 | 16.387 | .00480 | .03886 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **182.82** | **.00087** | **.21594** | **.00237** | **134.45** | **-.00206** | **-.00050** | **30.088** | **.00095** |
| Stddev | .07 | .00005 | .00209 | .00047 | .17 | .00067 | .00276 | .077 | .00054 |
| %RSD | .04064 | 6.2663 | .96828 | 19.822 | .12982 | 32.679 | 550.03 | .25750 | 57.427 |
| #1 | 182.77 | .00083 | .21742 | .00270 | 134.33 | -.00254 | -.00245 | 30.143 | .00133 |
| #2 | 182.87 | .00091 | .21446 | .00204 | 134.57 | -.00158 | .00145 | 30.034 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2366** | **.00034** | **.00182** | **.00079** | **-.04734** | **.00706** | **.01813** | **.00142** |
| Stddev | .0049 | .00020 | .00011 | .00017 | .01354 | .00064 | .00007 | .00143 |
| %RSD | .22079 | 56.890 | 5.9827 | 21.645 | 28.608 | 9.1339 | .36113 | 101.22 |
| #1 | 2.2331 | .00021 | .00190 | .00091 | -.03776 | .00660 | .01808 | .00243 |
| #2 | 2.2401 | .00048 | .00174 | .00067 | -.05691 | .00751 | .01818 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5389.0** | **70272.** | **3029.2** |
| Stddev | 13.7 | 64. | 23.2 |
| %RSD | .25481 | .09130 | .76730 |
| #1 | 5379.3 | 70227. | 3012.8 |
| #2 | 5398.7 | 70318. | 3045.6 |

Sample Name: 280-42099-A-9-A  Acquired: 5/18/2013 14:43:02  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00097** | **.01209** | **.02004** | **2.3269** | **.01530** | **-.00015** | **-.00422** | **81.549** | **.00029** |
| Stddev | .00013 | .00058 | .00032 | .0004 | .00060 | .00003 | .00028 | .144 | .00016 |
| %RSD | 12.963 | 4.7880 | 1.5754 | .01686 | 3.9039 | 19.881 | 6.5465 | .17611 | 55.434 |
| #1 | -.00106 | .01250 | .01982 | 2.3271 | .01488 | -.00013 | -.00442 | 81.447 | .00018 |
| #2 | -.00088 | .01168 | .02027 | 2.3266 | .01572 | -.00018 | -.00403 | 81.650 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **.00098** | **.00198** | **.06198** | **12.969** | **.12481** | **12.999** | **.18144** | **.06185** |
| Stddev | .00003 | .00006 | .00084 | .00271 | .031 | .00076 | .088 | .00090 | .00009 |
| %RSD | 6.8580 | 6.4156 | 42.381 | 4.3782 | .23549 | .60988 | .67696 | .49687 | .14495 |
| #1 | -.00044 | .00103 | .00257 | .06007 | 12.948 | .12535 | 13.061 | .18208 | .06179 |
| #2 | -.00048 | .00094 | .00139 | .06390 | 12.991 | .12427 | 12.937 | .18080 | .06191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **195.75** | **.00180** | **.16894** | **.00209** | **134.20** | **-.00119** | **-.00492** | **27.360** | **.00002** |
| Stddev | .41 | .00033 | .00111 | .00036 | .10 | .00134 | .00602 | .086 | .00010 |
| %RSD | .20876 | 18.292 | .65643 | 17.339 | .07551 | 112.38 | 122.29 | .31346 | 433.94 |
| #1 | 195.46 | .00157 | .16973 | .00234 | 134.12 | -.00024 | -.00067 | 27.299 | .00009 |
| #2 | 196.04 | .00204 | .16816 | .00183 | 134.27 | -.00214 | -.00918 | 27.421 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5632** | **.00053** | **.00185** | **.00098** | **-.04379** | **.00127** | **.01501** | **-.00062** |
| Stddev | .0010 | .00034 | .00029 | .00034 | .02616 | .00069 | .00067 | .00179 |
| %RSD | .06068 | 63.941 | 15.732 | 35.251 | 59.732 | 54.211 | 4.4439 | 288.36 |
| #1 | 1.5625 | .00077 | .00206 | .00122 | -.06229 | .00176 | .01548 | .00064 |
| #2 | 1.5639 | .00029 | .00165 | .00073 | -.02530 | .00079 | .01454 | -.00188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5449.1** | **68894.** | **2998.6** |
| Stddev | 12.5 | 296. | 12.0 |
| %RSD | .22947 | .42936 | .39937 |
| #1 | 5457.9 | 68685. | 3007.1 |
| #2 | 5440.2 | 69103. | 2990.2 |

Sample Name: 280-42099-A-10-A  Acquired: 5/18/2013 14:45:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **-.00100** | **.08561** | **3.2429** | **.05649** | **-.00005** | **-.00469** | **104.88** | **.00030** |
| Stddev | .00004 | .00066 | .00351 | .0105 | .00017 | .00018 | .00011 | .35 | .00034 |
| %RSD | 17.391 | 66.219 | 4.0994 | .32301 | .30960 | 346.28 | 2.3061 | .33543 | 110.86 |
| #1 | .00022 | -.00147 | .08313 | 3.2355 | .05637 | -.00018 | -.00461 | 105.13 | .00054 |
| #2 | .00028 | -.00053 | .08810 | 3.2503 | .05662 | .00008 | -.00476 | 104.63 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **.00025** | **.00108** | **4.3599** | **13.060** | **.10838** | **17.161** | **3.1011** | **.04762** |
| Stddev | .00003 | .00004 | .00013 | .0232 | .001 | .00146 | .016 | .0001 | .00002 |
| %RSD | 6.9338 | 14.242 | 12.305 | .53148 | .00732 | 1.3460 | .09191 | .00261 | .04967 |
| #1 | -.00039 | .00022 | .00118 | 4.3763 | 13.060 | .10734 | 17.172 | 3.1012 | .04764 |
| #2 | -.00035 | .00027 | .00099 | 4.3436 | 13.059 | .10941 | 17.150 | 3.1010 | .04761 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **249.09** | **.00080** | **.27909** | **.00420** | **122.27** | **-.00178** | **-.00452** | **34.781** | **.00067** |
| Stddev | 1.88 | .00013 | .00261 | .00103 | .45 | .00199 | .00123 | .006 | .00042 |
| %RSD | .75586 | 16.856 | .93384 | 24.486 | .36459 | 111.72 | 27.232 | .01638 | 63.189 |
| #1 | 250.43 | .00071 | .27725 | .00493 | 121.95 | -.00037 | -.00365 | 34.777 | .00097 |
| #2 | 247.76 | .00090 | .28093 | .00347 | 122.58 | -.00318 | -.00539 | 34.785 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9059** | **-.00059** | **.00095** | **-.00037** | W **-.06300** | **-.00041** | **.00857** | **.00252** |
| Stddev | .0069 | .00050 | .00037 | .00030 | .00006 | .00003 | .00139 | .00179 |
| %RSD | .36446 | 84.005 | 39.021 | 79.349 | .09726 | 6.7287 | 16.254 | 71.223 |
| #1 | 1.9108 | -.00024 | .00121 | -.00058 | -.06296 | -.00043 | .00956 | .00378 |
| #2 | 1.9010 | -.00095 | .00069 | -.00016 | -.06304 | -.00039 | .00759 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5350.1** | **68792.** | **2990.6** |
| Stddev | 8.2 | 64. | 17.1 |
| %RSD | .15383 | .09238 | .57051 |
| #1 | 5355.9 | 68747. | 2978.6 |
| #2 | 5344.3 | 68837. | 3002.7 |

Sample Name: 280-42099-A-11-A  Acquired: 5/18/2013 14:47:49  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **-.00038** | **.09136** | **3.2734** | **.05830** | **-.00019** | **-.00520** | **107.32** | **.00041** |
| Stddev | .00016 | .00006 | .00195 | .0154 | .00093 | .00002 | .00126 | .00 | .00010 |
| %RSD | 27.497 | 15.098 | 2.1396 | .47055 | 1.5997 | 11.952 | 24.199 | .00188 | 25.265 |
| #1 | -.00048 | -.00034 | .09274 | 3.2625 | .05896 | -.00017 | -.00609 | 107.32 | .00034 |
| #2 | -.00071 | -.00043 | .08997 | 3.2843 | .05764 | -.00020 | -.00431 | 107.32 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.00027** | **.00185** | **4.3851** | **13.313** | **.10778** | **17.418** | **3.1579** | **.04860** |
| Stddev | .00012 | .00026 | .00077 | .0115 | .015 | .00326 | .030 | .0073 | .00012 |
| %RSD | 39.875 | 95.984 | 41.511 | .26105 | .10980 | 3.0262 | .17034 | .23194 | .25416 |
| #1 | -.00039 | .00009 | .00239 | 4.3932 | 13.302 | .10547 | 17.439 | 3.1630 | .04869 |
| #2 | -.00022 | .00045 | .00131 | 4.3770 | 13.323 | .11008 | 17.398 | 3.1527 | .04851 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **255.01** | **.00179** | **.26864** | **.00391** | **123.26** | **-.00155** | **-.00085** | **35.317** | **.00047** |
| Stddev | .43 | .00021 | .00051 | .00094 | .38 | .00185 | .00345 | .113 | .00043 |
| %RSD | .16713 | 11.844 | .18900 | 24.057 | .30916 | 119.95 | 407.85 | .31989 | 92.563 |
| #1 | 254.71 | .00194 | .26828 | .00325 | 122.99 | -.00023 | .00159 | 35.397 | .00016 |
| #2 | 255.31 | .00164 | .26900 | .00458 | 123.53 | -.00286 | -.00329 | 35.237 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9431** | **-.00107** | **.00055** | **-.00150** | W **-.05308** | **.00009** | **.00738** | **-.00190** |
| Stddev | .0010 | .00148 | .00014 | .00042 | .04192 | .00011 | .00061 | .00018 |
| %RSD | .04870 | 137.59 | 25.555 | 28.327 | 78.981 | 118.96 | 8.2632 | 9.4584 |
| #1 | 1.9425 | -.00212 | .00045 | -.00180 | -.08272 | .00017 | .00695 | -.00177 |
| #2 | 1.9438 | -.00003 | .00065 | -.00120 | -.02343 | .00001 | .00781 | -.00203 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5273.5** | **66497.** | **2861.5** |
| Stddev | 1.5 | 32. | 8.6 |
| %RSD | .02810 | .04868 | .30043 |
| #1 | 5274.6 | 66474. | 2855.4 |
| #2 | 5272.5 | 66519. | 2867.6 |

Sample Name: 280-42099-A-12-A  Acquired: 5/18/2013 14:50:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.00532** | **.02555** | **2.4012** | **.03530** | **-.00016** | **-.00592** | **70.364** | **.00020** |
| Stddev | .00032 | .00010 | .00016 | .0023 | .00033 | .00019 | .00006 | .020 | .00011 |
| %RSD | 54.311 | 1.7987 | .63390 | .09701 | .92588 | 114.20 | .95407 | .02838 | 55.804 |
| #1 | -.00080 | .00539 | .02567 | 2.4028 | .03553 | -.00030 | -.00588 | 70.350 | .00028 |
| #2 | -.00036 | .00525 | .02544 | 2.3995 | .03507 | -.00003 | -.00596 | 70.378 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.00140** | **.00197** | **.10659** | **12.631** | **.13034** | **10.027** | **.38259** | **.05303** |
| Stddev | .00018 | .00012 | .00044 | .00001 | .014 | .00105 | .035 | .00131 | .00018 |
| %RSD | 17.840 | 8.5686 | 22.528 | .01343 | .10956 | .80234 | .34869 | .34341 | .34281 |
| #1 | .00115 | .00131 | .00165 | .10660 | 12.640 | .12960 | 10.003 | .38166 | .05316 |
| #2 | .00089 | .00148 | .00228 | .10658 | 12.621 | .13108 | 10.052 | .38352 | .05291 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **201.61** | **.07304** | **.16231** | **.00381** | **125.89** | **-.00034** | **-.00203** | **29.576** | **.00059** |
| Stddev | .02 | .00063 | .00045 | .00187 | .14 | .00120 | .00375 | .051 | .00021 |
| %RSD | .00841 | .86543 | .27647 | 49.182 | .11108 | 350.29 | 184.05 | .17089 | 34.735 |
| #1 | 201.62 | .07349 | .16262 | .00514 | 125.99 | -.00119 | .00061 | 29.612 | .00074 |
| #2 | 201.60 | .07259 | .16199 | .00249 | 125.79 | .00051 | -.00468 | 29.540 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2679** | **-.00379** | **.00024** | **.00089** | **-.01577** | **.00221** | **.00700** | **-.00064** |
| Stddev | .0005 | .00017 | .00009 | .00062 | .01290 | .00007 | .00056 | .00045 |
| %RSD | .04168 | 4.4507 | 36.231 | 69.311 | 81.814 | 3.2066 | 7.9932 | 69.346 |
| #1 | 1.2675 | -.00391 | .00018 | .00046 | -.00665 | .00226 | .00661 | -.00096 |
| #2 | 1.2683 | -.00367 | .00030 | .00133 | -.02490 | .00216 | .00740 | -.00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5141.4** | **65386.** | **2802.2** |
| Stddev | 13.6 | 460. | 5.9 |
| %RSD | .26357 | .70338 | .20888 |
| #1 | 5131.8 | 65712. | 2806.4 |
| #2 | 5151.0 | 65061. | 2798.1 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 14:52:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **50.837** | **-.00518** | **.01998** | **.00536** | **-.00018** | **1.0292** | **.22676** | **-.00068** | **.00203** | **-.00033** | **.00256** | **50.255** |
| Stddev | .00018 | .129 | .00057 | .00182 | .00016 | .00002 | .0082 | .01298 | .00013 | .00005 | .00004 | .00029 | .069 |
| %RSD | 71.854 | .25450 | 10.919 | 9.1348 | 2.9890 | 11.779 | .79694 | 5.7262 | 19.536 | 2.5240 | 12.429 | 11.274 | .13822 |
| #1 | -.00037 | 50.745 | -.00558 | .02127 | .00525 | -.00017 | 1.0350 | .23594 | -.00059 | .00199 | -.00036 | .00276 | 50.206 |
| #2 | -.00012 | 50.928 | -.00478 | .01869 | .00548 | -.00020 | 1.0234 | .21758 | -.00078 | .00206 | -.00030 | .00236 | 50.304 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31466** | **.00173** | **.06026** | **.00313** | **-.00191** | **260.71** | **.00100** | **.01412** | **.00085** | **5.3219** | **-.00064** | **.00332** | **.07621** |
| Stddev | .04518 | .00168 | .00522 | .00031 | .00033 | .87 | .00023 | .00028 | .00131 | .0523 | .00030 | .00062 | .05084 |
| %RSD | 14.360 | 97.328 | 8.6566 | 9.7725 | 17.422 | .33307 | 22.589 | 1.9877 | 155.09 | .98352 | 46.728 | 18.738 | 66.716 |
| #1 | .28271 | .00054 | .06394 | .00334 | -.00167 | 260.10 | .00116 | .01431 | -.00008 | 5.3589 | -.00043 | .00376 | .11216 |
| #2 | .34661 | .00292 | .05657 | .00291 | -.00214 | 261.32 | .00084 | .01392 | .00177 | 5.2849 | -.00086 | .00288 | .04026 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.00490** | **5.0617** | **.00589** | **-.00222** | **10.226** | **.00101** | **.01215** | **-.02673** |
| Stddev | .00006 | .00011 | .0006 | .00038 | .00069 | .035 | .00015 | .00069 | .00578 |
| %RSD | 3.1744 | 2.2859 | .01240 | 6.4603 | 31.253 | .34205 | 14.546 | 5.7022 | 21.612 |
| #1 | .00184 | .00497 | 5.0622 | .00616 | -.00271 | 10.250 | .00091 | .01264 | -.03081 |
| #2 | .00192 | .00482 | 5.0613 | .00562 | -.00173 | 10.201 | .00112 | .01166 | -.02264 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5111.6** | **63438.** | **2698.5** |
| Stddev | 19.0 | 462. | 11.5 |
| %RSD | .37083 | .72774 | .42790 |
| #1 | 5098.2 | 63112. | 2690.4 |
| #2 | 5125.0 | 63765. | 2706.7 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 14:54:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51924** | **.53611** | **1.0265** | **.52804** | **.52056** | **.51666** | **.00323** | **5.3003** | **.51476** | **.52171** | **.51740** | **.51468** |
| Stddev | .00234 | .00363 | .0006 | .00054 | .00818 | .00796 | .00212 | .0766 | .00133 | .00109 | .00059 | .00007 |
| %RSD | .45110 | .67678 | .05578 | .10184 | 1.5723 | 1.5411 | 65.696 | 1.4455 | .25817 | .20977 | .11382 | .01411 |
| #1 | .51758 | .53868 | 1.0261 | .52842 | .52635 | .52229 | .00173 | 5.3545 | .51570 | .52248 | .51781 | .51463 |
| #2 | .52089 | .53355 | 1.0269 | .52766 | .51477 | .51103 | .00472 | 5.2461 | .51382 | .52093 | .51698 | .51473 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6704** | **53.910** | **1.0879** | **20.788** | **.51849** | **.51831** | F **5.7085** | **.52248** | **1.0351** | **1.0400** | **.08439** | **1.0332** |
| Stddev | .0453 | .658 | .0136 | .009 | .00033 | .00015 | .1352 | .00037 | .0008 | .0007 | .00286 | .0019 |
| %RSD | 1.6976 | 1.2198 | 1.2499 | .04138 | .06386 | .02929 | 2.3682 | .07101 | .07337 | .06428 | 3.3948 | .18868 |
| #1 | 2.7025 | 54.375 | 1.0975 | 20.795 | .51825 | .51841 | 5.8041 | .52222 | 1.0357 | 1.0395 | .08641 | 1.0346 |
| #2 | 2.6384 | 53.445 | 1.0783 | 20.782 | .51872 | .51820 | 5.6130 | .52275 | 1.0346 | 1.0405 | .08236 | 1.0318 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0290** | **5.2549** | **1.0323** | **.52476** | **.00092** | **.51758** | **1.0346** | **.00202** | **.51518** | **.52760** | **.51455** |
| Stddev | .0019 | .0929 | .0039 | .00632 | .00025 | .00001 | .0047 | .05472 | .00006 | .00071 | .00431 |
| %RSD | .18225 | 1.7682 | .37585 | 1.2037 | 27.393 | .00251 | .45593 | 2710.0 | .01152 | .13479 | .83815 |
| #1 | 1.0303 | 5.3206 | 1.0296 | .52922 | .00074 | .51759 | 1.0313 | -.03667 | .51523 | .52710 | .51760 |
| #2 | 1.0277 | 5.1892 | 1.0351 | .52029 | .00110 | .51757 | 1.0379 | .04071 | .51514 | .52810 | .51150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5261.7** | **65860.** | **2748.7** |
| Stddev | 9.9 | 103. | 40.3 |
| %RSD | .18783 | .15667 | 1.4657 |
| #1 | 5268.7 | 65933. | 2720.2 |
| #2 | 5254.7 | 65787. | 2777.2 |

Sample Name: CCB Acquired: 5/18/2013 14:57:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00085** | **.00741** | **-.00336** | F **.01118** | F **.00134** | **.00039** | **-.00133** | W **.05467** | **.00015** | **.00004** | **-.00008** |
| Stddev | .00001 | .00113 | .00011 | .00034 | .00072 | .00007 | .00027 | .00216 | .00001 | .00023 | .00011 |
| %RSD | .72252 | 15.278 | 3.3533 | 3.0560 | 54.181 | 16.725 | 20.583 | 3.9582 | 6.6395 | 607.95 | 132.35 |
| #1 | -.00084 | .00821 | -.00344 | .01142 | .00082 | .00043 | -.00152 | .05620 | .00015 | -.00012 | -.00016 |
| #2 | -.00085 | .00661 | -.00328 | .01094 | .00185 | .00034 | -.00113 | .05314 | .00016 | .00020 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00115 | | | .03450 | | | |
| Low Limit | | | | -.00312 | -.00115 | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | W **.02217** | F **.25851** | **.00066** | W **.01367** | F **.00106** | **.00053** | F **.28389** | **-.00051** | **.00132** | **.00172** |
| Stddev | .00023 | .00114 | .00279 | .00215 | .00167 | .00002 | .00037 | .01499 | .00014 | .00111 | .00068 |
| %RSD | 58.712 | 5.1494 | 1.0788 | 324.28 | 12.238 | 1.6254 | 70.548 | 5.2815 | 27.073 | 84.008 | 39.586 |
| #1 | .00056 | .02137 | .25653 | .00218 | .01249 | .00107 | .00026 | .29449 | -.00041 | .00210 | .00221 |
| #2 | .00023 | .02298 | .26048 | -.00086 | .01485 | .00105 | .00079 | .27329 | -.00061 | .00053 | .00124 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .02200 | .25000 | | .01070 | .00051 | | .10000 | | | |
| Low Limit | | -.02200 | -.25000 | | -.01070 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05987** | **-.00009** | **-.00178** | **.02642** | **.00083** | F **.00117** | **.00104** | W **.00093** | **-.00087** | **-.01733** | **.00057** |
| Stddev | .00355 | .00062 | .00135 | .02626 | .00085 | .00009 | .00028 | .00021 | .00077 | .02069 | .00043 |
| %RSD | 5.9251 | 699.90 | 75.979 | 99.402 | 102.44 | 7.3433 | 26.640 | 22.098 | 88.018 | 119.39 | 75.940 |
| #1 | .06237 | .00035 | -.00273 | .00785 | .00023 | .00123 | .00084 | .00108 | -.00142 | -.03196 | .00087 |
| #2 | .05736 | -.00053 | -.00082 | .04499 | .00144 | .00111 | .00124 | .00079 | -.00033 | -.00270 | .00026 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00060 | | .00060 | | | |
| Low Limit | | | | | | -.00060 | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.00512** | **-.00179** |
| Stddev | .00046 | .00269 |
| %RSD | 9.0309 | 150.00 |
| #1 | .00479 | -.00370 |
| #2 | .00544 | .00011 |
| Check ? | Chk Warn | Chk Pass |
| High Limit | .00453 | |
| Low Limit | -.00453 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5265.9** | **66034.** | **2759.6** |
| Stddev | 13.0 | 383. | 11.6 |
| %RSD | .24718 | .57948 | .42039 |
| #1 | 5256.7 | 65763. | 2751.4 |
| #2 | 5275.1 | 66304. | 2767.8 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 14:59:42 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00986** | **.10861** | **.01528** | **.11296** | **.01117** | **.00102** | **.10486** | **.21871** | **.00549** | **.01073** | **.01050** |
| Stddev | .00065 | .00102 | .00161 | .00054 | .00055 | .00001 | .00352 | .00150 | .00024 | .00002 | .00006 |
| %RSD | 6.5826 | .93972 | 10.539 | .48025 | 4.9050 | .74744 | 3.3582 | .68393 | 4.4577 | .21117 | .59612 |
| #1 | .00940 | .10933 | .01642 | .11334 | .01156 | .00101 | .10237 | .21977 | .00531 | .01075 | .01054 |
| #2 | .01032 | .10789 | .01414 | .11258 | .01078 | .00102 | .10735 | .21766 | .00566 | .01072 | .01045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01606** | **.11000** | **3.4729** | W **.01289** | **.21703** | **.01061** | **.02098** | W **1.2454** | **.04278** | **3.0538** | W **.01159** |
| Stddev | .00056 | .00965 | .0421 | .00176 | .00012 | .00001 | .00023 | .0632 | .00057 | .0225 | .00077 |
| %RSD | 3.5005 | 8.7697 | 1.2111 | 13.656 | .05755 | .12733 | 1.0910 | 5.0775 | 1.3220 | .73532 | 6.6392 |
| #1 | .01566 | .11682 | 3.5027 | .01165 | .21712 | .01062 | .02115 | 1.2902 | .04318 | 3.0697 | .01104 |
| #2 | .01646 | .10318 | 3.4432 | .01414 | .21694 | .01060 | .02082 | 1.2007 | .04238 | 3.0380 | .01213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | 1.0000 | | | .00900 |
| Range | | | | 20.000% | | | | 20.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01368** | **.01094** | **.01338** | **.54654** | **.10577** | **.01088** | **.01646** | **.01045** | **.01512** | F **.08329** | **.01150** |
| Stddev | .00027 | .00076 | .00418 | .00640 | .00027 | .00008 | .00081 | .00029 | .00019 | .00065 | .00028 |
| %RSD | 1.9751 | 6.9052 | 31.258 | 1.1702 | .25660 | .73380 | 4.9479 | 2.7496 | 1.2308 | .78530 | 2.4026 |
| #1 | .01349 | .01040 | .01042 | .55106 | .10596 | .01093 | .01704 | .01025 | .01526 | .08283 | .01170 |
| #2 | .01387 | .01147 | .01634 | .54202 | .10558 | .01082 | .01589 | .01065 | .01499 | .08376 | .01131 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02401** | **.01242** |
| Stddev | .00009 | .00201 |
| %RSD | .38234 | 16.218 |
| #1 | .02407 | .01385 |
| #2 | .02394 | .01100 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5280.1** | **66660.** | **2782.9** |
| Stddev | 16.1 | 83. | 3.6 |
| %RSD | .30572 | .12484 | .12863 |
| #1 | 5268.7 | 66719. | 2780.4 |
| #2 | 5291.5 | 66601. | 2785.4 |

Sample Name: 280-42099-A-13-A  Acquired: 5/18/2013 15:02:06  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00117** | **.00480** | **.00536** | **3.8340** | **.03708** | **-.00005** | **-.00474** | **213.35** | **.00019** |
| Stddev | .00025 | .00035 | .00195 | .0001 | .00027 | .00007 | .00229 | 1.88 | .00002 |
| %RSD | 21.700 | 7.2465 | 36.459 | .00151 | .73335 | 147.55 | 48.276 | .88070 | 8.9274 |
| #1 | -.00135 | .00504 | .00674 | 3.8341 | .03689 | .00000 | -.00312 | 212.02 | .00017 |
| #2 | -.00099 | .00455 | .00398 | 3.8340 | .03728 | -.00010 | -.00635 | 214.67 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.00344** | **.00206** | **.01410** | **20.923** | **.32646** | **30.706** | **.00162** | **.00761** |
| Stddev | .00001 | .00000 | .00056 | .00467 | .182 | .00171 | .155 | .00001 | .00001 |
| %RSD | 7.7078 | .05495 | 26.994 | 33.100 | .86840 | .52310 | .50349 | .42384 | .16172 |
| #1 | -.00012 | .00344 | .00167 | .01740 | 20.794 | .32766 | 30.597 | .00161 | .00760 |
| #2 | -.00011 | .00344 | .00245 | .01080 | 21.051 | .32525 | 30.816 | .00162 | .00761 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **362.35** | **.00094** | **.24900** | **.00249** | **223.45** | **-.00161** | **.00649** | **32.717** | **-.00108** |
| Stddev | .89 | .00034 | .00159 | .00002 | .28 | .00116 | .00472 | .145 | .00060 |
| %RSD | .24528 | 36.383 | .63810 | .64861 | .12519 | 71.568 | 72.694 | .44336 | 55.812 |
| #1 | 361.72 | .00070 | .25012 | .00247 | 223.65 | -.00080 | .00983 | 32.614 | -.00065 |
| #2 | 362.98 | .00118 | .24788 | .00250 | 223.25 | -.00243 | .00315 | 32.820 | -.00151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.7310** | **-.00034** | **.00209** | **.00099** | **.08280** | **.00640** | **.00639** | **-.00183** |
| Stddev | .0348 | .00171 | .00070 | .00133 | .00343 | .00014 | .00047 | .00036 |
| %RSD | .93274 | 506.00 | 33.450 | 133.76 | 4.1437 | 2.2098 | 7.3175 | 19.872 |
| #1 | 3.7064 | -.00154 | .00159 | .00193 | .08037 | .00650 | .00606 | -.00208 |
| #2 | 3.7556 | .00087 | .00258 | .00005 | .08522 | .00630 | .00672 | -.00157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5002.3** | **63975.** | **2772.0** |
| Stddev | .6 | 472. | 14.5 |
| %RSD | .01207 | .73832 | .52219 |
| #1 | 5001.9 | 64309. | 2782.3 |
| #2 | 5002.7 | 63641. | 2761.8 |

Sample Name: 280-42099-A-14-A  Acquired: 5/18/2013 15:04:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00096** | **.00598** | **.00517** | **2.5155** | **.04941** | **-.00013** | **-.00592** | **93.452** | **.00036** |
| Stddev | .00016 | .00007 | .00115 | .0065 | .00010 | .00016 | .00094 | .599 | .00002 |
| %RSD | 16.979 | 1.1630 | 22.256 | .25774 | .20378 | 125.99 | 15.866 | .64117 | 4.2499 |
| #1 | -.00085 | .00593 | .00598 | 2.5109 | .04948 | -.00024 | -.00526 | 93.028 | .00037 |
| #2 | -.00108 | .00603 | .00435 | 2.5201 | .04934 | -.00001 | -.00659 | 93.876 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00042** | **.00014** | **.00103** | **.06941** | **14.567** | **.13776** | **13.819** | **.60954** | **.03429** |
| Stddev | .00010 | .00025 | .00018 | .00275 | .033 | .00056 | .017 | .00108 | .00007 |
| %RSD | 23.938 | 181.39 | 17.110 | 3.9675 | .22521 | .40377 | .12440 | .17640 | .20376 |
| #1 | -.00049 | -.00004 | .00116 | .06747 | 14.544 | .13816 | 13.831 | .61030 | .03424 |
| #2 | -.00035 | .00031 | .00091 | .07136 | 14.591 | .13737 | 13.807 | .60878 | .03434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **213.12** | **.00099** | **.23638** | **.00266** | **136.45** | **-.00209** | **-.00352** | **24.070** | **.00080** |
| Stddev | .65 | .00017 | .00172 | .00109 | .56 | .00045 | .00096 | .008 | .00021 |
| %RSD | .30326 | 16.958 | .72940 | 41.014 | .41304 | 21.494 | 27.281 | .03422 | 26.176 |
| #1 | 212.66 | .00111 | .23760 | .00189 | 136.05 | -.00241 | -.00284 | 24.076 | .00094 |
| #2 | 213.57 | .00088 | .23516 | .00343 | 136.85 | -.00177 | -.00420 | 24.064 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6299** | **-.00175** | **.00086** | **.00196** | **-.04834** | **.00040** | **.00627** | **.00124** |
| Stddev | .0081 | .00182 | .00039 | .00147 | .02153 | .00048 | .00038 | .00234 |
| %RSD | .49562 | 104.06 | 44.959 | 74.961 | 44.542 | 118.41 | 6.0564 | 189.37 |
| #1 | 1.6241 | -.00046 | .00114 | .00092 | -.03312 | .00074 | .00654 | -.00042 |
| #2 | 1.6356 | -.00303 | .00059 | .00300 | -.06357 | .00007 | .00600 | .00289 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5066.0** | **63178.** | **2684.1** |
| Stddev | 96.7 | 14. | 46.3 |
| %RSD | 1.9079 | .02202 | 1.7265 |
| #1 | 4997.7 | 63168. | 2716.8 |
| #2 | 5134.4 | 63188. | 2651.3 |

Sample Name: 280-42099-A-15-A  Acquired: 5/18/2013 15:06:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **.00718** | **.01068** | **3.7885** | **.10025** | **-.00011** | **-.00547** | **122.47** | **.00019** |
| Stddev | .00000 | .00013 | .00143 | .0004 | .00000 | .00002 | .00341 | .90 | .00008 |
| %RSD | .60724 | 1.8530 | 13.348 | .00966 | .00119 | 14.316 | 62.286 | .73732 | 40.527 |
| #1 | -.00033 | .00727 | .01169 | 3.7888 | .10025 | -.00012 | -.00306 | 123.11 | .00025 |
| #2 | -.00033 | .00708 | .00967 | 3.7883 | .10025 | -.00010 | -.00788 | 121.83 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.00034** | **.00141** | **.05640** | **14.945** | **.10182** | **22.456** | **3.7862** | **.01952** |
| Stddev | .00004 | .00013 | .00001 | .00617 | .148 | .00113 | .075 | .0068 | .00004 |
| %RSD | 7.8150 | 36.878 | .75599 | 10.947 | .98866 | 1.1122 | .33558 | .17977 | .22399 |
| #1 | -.00048 | .00043 | .00140 | .06076 | 15.050 | .10102 | 22.510 | 3.7910 | .01955 |
| #2 | -.00054 | .00025 | .00142 | .05203 | 14.841 | .10262 | 22.403 | 3.7814 | .01949 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **269.90** | **.00082** | **.39288** | **.00259** | **71.236** | **-.00348** | **.00017** | **32.591** | **-.00002** |
| Stddev | 2.42 | .00002 | .00234 | .00291 | .032 | .00030 | .00226 | .052 | .00012 |
| %RSD | .89705 | 2.1669 | .59516 | 112.48 | .04523 | 8.5788 | 1317.4 | .15852 | 487.50 |
| #1 | 271.61 | .00081 | .39453 | .00465 | 71.258 | -.00327 | .00177 | 32.628 | -.00011 |
| #2 | 268.19 | .00084 | .39123 | .00053 | 71.213 | -.00369 | -.00143 | 32.555 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2658** | **-.00365** | **.00065** | **-.00303** | **-.03647** | **-.00001** | **.00453** | **-.00351** |
| Stddev | .0176 | .00039 | .00020 | .00102 | .05548 | .00034 | .00071 | .00556 |
| %RSD | .77621 | 10.669 | 29.910 | 33.755 | 152.15 | 2932.3 | 15.757 | 158.39 |
| #1 | 2.2783 | -.00337 | .00079 | -.00375 | -.07570 | -.00025 | .00402 | -.00744 |
| #2 | 2.2534 | -.00392 | .00052 | -.00230 | .00277 | .00023 | .00503 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5088.9** | **64650.** | **2722.7** |
| Stddev | 5.9 | 430. | 23.2 |
| %RSD | .11602 | .66519 | .85156 |
| #1 | 5093.1 | 64346. | 2706.3 |
| #2 | 5084.7 | 64954. | 2739.1 |

Sample Name: 280-42099-A-16-A  Acquired: 5/18/2013 15:09:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00098** | **.00383** | **.02111** | **2.2547** | **.02133** | **-.00011** | **-.00441** | **83.439** | **.00028** |
| Stddev | .00095 | .00017 | .00048 | .0021 | .00059 | .00012 | .00109 | .524 | .00015 |
| %RSD | 97.457 | 4.5233 | 2.2783 | .09491 | 2.7565 | 102.41 | 24.706 | .62824 | 53.385 |
| #1 | -.00165 | .00371 | .02077 | 2.2562 | .02092 | -.00003 | -.00364 | 83.068 | .00038 |
| #2 | -.00030 | .00396 | .02145 | 2.2532 | .02175 | -.00020 | -.00518 | 83.809 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **.00132** | **.00170** | **.00447** | **14.066** | **.13762** | **14.661** | **.14705** | **.05683** |
| Stddev | .00007 | .00015 | .00001 | .00247 | .096 | .00283 | .006 | .00023 | .00046 |
| %RSD | 18.948 | 11.039 | .75600 | 55.281 | .68289 | 2.0549 | .04192 | .15367 | .81602 |
| #1 | -.00043 | .00143 | .00169 | .00272 | 13.998 | .13962 | 14.666 | .14721 | .05650 |
| #2 | -.00033 | .00122 | .00171 | .00621 | 14.134 | .13562 | 14.657 | .14689 | .05716 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **202.50** | **.00176** | **.17084** | **.00349** | **146.79** | **.00050** | **-.00052** | **30.446** | **-.00046** |
| Stddev | 1.82 | .00032 | .00163 | .00074 | .03 | .00184 | .00369 | .355 | .00021 |
| %RSD | .89932 | 18.090 | .95125 | 21.310 | .02096 | 367.86 | 709.07 | 1.1647 | 45.493 |
| #1 | 201.22 | .00154 | .17199 | .00296 | 146.82 | .00181 | -.00313 | 30.195 | -.00061 |
| #2 | 203.79 | .00199 | .16969 | .00401 | 146.77 | -.00080 | .00209 | 30.697 | -.00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9925** | **.00040** | **.00100** | **.00006** | **-.02441** | **.00533** | **.00564** | **.00062** |
| Stddev | .0115 | .00022 | .00020 | .00059 | .03336 | .00106 | .00042 | .00175 |
| %RSD | .57766 | 56.206 | 19.907 | 1000.0 | 136.69 | 19.900 | 7.3888 | 281.62 |
| #1 | 1.9843 | .00024 | .00086 | .00048 | -.00082 | .00608 | .00534 | -.00062 |
| #2 | 2.0006 | .00056 | .00114 | -.00036 | -.04799 | .00458 | .00593 | .00186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5068.9** | **63418.** | **2746.8** |
| Stddev | 39.4 | 204. | 45.6 |
| %RSD | .77641 | .32140 | 1.6602 |
| #1 | 5041.0 | 63274. | 2779.1 |
| #2 | 5096.7 | 63563. | 2714.6 |

Sample Name: 280-42099-A-17-A  Acquired: 5/18/2013 15:11:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00102** | **.00413** | **.00663** | **2.5499** | **.04654** | **-.00014** | **-.00245** | **74.927** | **.00015** |
| Stddev | .00023 | .00007 | .00420 | .0132 | .00009 | .00012 | .00004 | .086 | .00007 |
| %RSD | 22.337 | 1.7662 | 63.325 | .51614 | .19959 | 89.877 | 1.7600 | .11532 | 46.821 |
| #1 | -.00086 | .00419 | .00960 | 2.5406 | .04661 | -.00022 | -.00242 | 74.988 | .00020 |
| #2 | -.00119 | .00408 | .00366 | 2.5592 | .04647 | -.00005 | -.00248 | 74.866 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **.00023** | **.00144** | **.15170** | **12.922** | **.12246** | **10.855** | **.85892** | **.07104** |
| Stddev | .00009 | .00010 | .00043 | .00204 | .064 | .00113 | .015 | .00143 | .00024 |
| %RSD | 24.470 | 44.035 | 29.746 | 1.3445 | .49739 | .91983 | .14237 | .16626 | .33837 |
| #1 | -.00045 | .00016 | .00175 | .15314 | 12.877 | .12325 | 10.865 | .85993 | .07087 |
| #2 | -.00032 | .00031 | .00114 | .15025 | 12.968 | .12166 | 10.844 | .85791 | .07121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **201.82** | **.00181** | **.33168** | **.00394** | **111.05** | **-.00103** | **-.00148** | **29.112** | **.00002** |
| Stddev | .35 | .00047 | .00193 | .00042 | .92 | .00092 | .00060 | .132 | .00053 |
| %RSD | .17248 | 26.247 | .58306 | 10.636 | .82530 | 89.217 | 40.567 | .45416 | 2150.6 |
| #1 | 202.07 | .00147 | .33031 | .00364 | 110.40 | -.00038 | -.00190 | 29.205 | -.00035 |
| #2 | 201.58 | .00215 | .33305 | .00423 | 111.70 | -.00169 | -.00106 | 29.018 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3334** | **-.00033** | **.00045** | **.00182** | **-.01847** | **.00073** | **.00665** | **-.00247** |
| Stddev | .0015 | .00020 | .00016 | .00124 | .02682 | .00051 | .00003 | .00047 |
| %RSD | .11106 | 60.985 | 34.379 | 68.039 | 145.20 | 69.852 | .39311 | 18.942 |
| #1 | 1.3344 | -.00019 | .00057 | .00095 | -.03743 | .00108 | .00663 | -.00214 |
| #2 | 1.3324 | -.00047 | .00034 | .00270 | .00049 | .00037 | .00667 | -.00280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5211.1** | **64159.** | **2735.6** |
| Stddev | 91.2 | 83. | 21.0 |
| %RSD | 1.7494 | .12969 | .76694 |
| #1 | 5146.6 | 64100. | 2720.8 |
| #2 | 5275.5 | 64217. | 2750.5 |

Sample Name: 280-42099-A-18-A  Acquired: 5/18/2013 15:14:11  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00057** | **.00855** | **.02720** | **2.4659** | **.01606** | **-.00012** | **-.00226** | **63.442** | **.00048** |
| Stddev | .00034 | .00001 | .00160 | .0015 | .00046 | .00003 | .00032 | .236 | .00026 |
| %RSD | 58.859 | .05903 | 5.8852 | .06047 | 2.8723 | 24.035 | 14.300 | .37233 | 53.729 |
| #1 | -.00033 | .00854 | .02607 | 2.4649 | .01638 | -.00010 | -.00203 | 63.609 | .00067 |
| #2 | -.00081 | .00855 | .02834 | 2.4670 | .01573 | -.00014 | -.00248 | 63.275 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.00181** | **.00170** | **.01704** | **11.727** | **.12722** | **8.1684** | **.00294** | **.05059** |
| Stddev | .00004 | .00022 | .00086 | .00426 | .110 | .00182 | .0562 | .00007 | .00013 |
| %RSD | 18.496 | 11.907 | 50.630 | 24.994 | .93828 | 1.4344 | .68758 | 2.3336 | .25395 |
| #1 | -.00025 | .00166 | .00109 | .01403 | 11.805 | .12851 | 8.1287 | .00289 | .05050 |
| #2 | -.00020 | .00196 | .00231 | .02005 | 11.649 | .12593 | 8.2082 | .00299 | .05068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **212.17** | **.00087** | **.26823** | **.00330** | **132.36** | **-.00091** | **.01074** | **29.818** | **.00019** |
| Stddev | .90 | .00001 | .00005 | .00189 | .06 | .00151 | .00132 | .167 | .00054 |
| %RSD | .42572 | 1.5280 | .01766 | 57.392 | .04293 | 165.17 | 12.253 | .55986 | 283.09 |
| #1 | 212.81 | .00087 | .26820 | .00196 | 132.32 | -.00198 | .00981 | 29.936 | .00057 |
| #2 | 211.53 | .00088 | .26826 | .00464 | 132.40 | .00015 | .01167 | 29.700 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1961** | **.00134** | **.00055** | **.00141** | **-.01118** | **.01014** | **.00947** | **.00107** |
| Stddev | .0039 | .00089 | .00011 | .00081 | .03518 | .00071 | .00037 | .00112 |
| %RSD | .32503 | 66.197 | 19.527 | 57.584 | 314.56 | 7.0200 | 3.9467 | 104.47 |
| #1 | 1.1989 | .00071 | .00047 | .00198 | -.03606 | .00964 | .00921 | .00187 |
| #2 | 1.1934 | .00197 | .00062 | .00084 | .01369 | .01065 | .00974 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5459.1** | **68593.** | **2974.8** |
| Stddev | 9.7 | 352. | 26.2 |
| %RSD | .17709 | .51308 | .88215 |
| #1 | 5452.3 | 68842. | 2956.3 |
| #2 | 5466.0 | 68344. | 2993.4 |

Sample Name: 280-42099-A-19-A  Acquired: 5/18/2013 15:16:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q3  Custom ID2:  Custom ID3:
Comment: 174056 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.01828** | **.03831** | **2.1912** | **.01734** | **-.00021** | **-.00147** | **29.154** | **.00011** |
| Stddev | .00020 | .00013 | .00075 | .0003 | .00006 | .00001 | .00055 | .122 | .00004 |
| %RSD | 143.33 | .70507 | 1.9629 | .01129 | .31997 | 6.6908 | 37.213 | .41917 | 32.658 |
| #1 | .00000 | .01838 | .03884 | 2.1914 | .01730 | -.00022 | -.00186 | 29.068 | .00008 |
| #2 | -.00028 | .01819 | .03778 | 2.1911 | .01738 | -.00020 | -.00109 | 29.240 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00012** | **.00186** | **.04074** | **10.949** | **.06323** | **2.4035** | **.17425** | **.14914** |
| Stddev | .00007 | .00034 | .00048 | .00204 | .048 | .00021 | .0039 | .00020 | .00035 |
| %RSD | 95.582 | 273.60 | 25.799 | 5.0182 | .43599 | .32624 | .16167 | .11638 | .23206 |
| #1 | -.00012 | -.00012 | .00221 | .04218 | 10.983 | .06337 | 2.4062 | .17439 | .14890 |
| #2 | -.00002 | .00036 | .00152 | .03929 | 10.915 | .06308 | 2.4007 | .17411 | .14939 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **200.03** | **.00282** | **.20164** | **.00265** | **109.63** | **-.00068** | **-.00285** | **20.070** | **.00036** |
| Stddev | .43 | .00023 | .00071 | .00112 | .01 | .00028 | .00507 | .032 | .00098 |
| %RSD | .21594 | 8.0504 | .35327 | 42.155 | .01013 | 41.620 | 177.83 | .16028 | 272.59 |
| #1 | 199.73 | .00298 | .20113 | .00343 | 109.62 | -.00048 | .00073 | 20.092 | .00106 |
| #2 | 200.34 | .00266 | .20214 | .00186 | 109.64 | -.00088 | -.00644 | 20.047 | -.00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0575** | **.00032** | **.00025** | **.00131** | W **-.07658** | **.00089** | **.00557** | **.00044** |
| Stddev | .0050 | .00066 | .00022 | .00137 | .01361 | .00013 | .00032 | .00394 |
| %RSD | .47658 | 208.58 | 86.831 | 105.17 | 17.768 | 14.739 | 5.8189 | 897.49 |
| #1 | 1.0539 | -.00015 | .00040 | .00034 | -.06696 | .00098 | .00534 | -.00235 |
| #2 | 1.0611 | .00079 | .00010 | .00228 | -.08621 | .00080 | .00580 | .00323 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5455.7** | **70043.** | **3038.9** |
| Stddev | 12.7 | 130. | .5 |
| %RSD | .23212 | .18535 | .01808 |
| #1 | 5464.7 | 69951. | 3038.5 |
| #2 | 5446.7 | 70135. | 3039.3 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 15:19:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **50.672** | **-.00126** | **.02282** | **.00062** | **-.00004** | **1.0398** | **.00546** | **-.00058** | **.00166** | **-.00019** | **.00117** | **49.837** |
| Stddev | .00070 | .006 | .00201 | .00247 | .00052 | .00010 | .0017 | .00245 | .00013 | .00009 | .00001 | .00063 | .152 |
| %RSD | 300.06 | .01200 | 159.44 | 10.808 | 82.995 | 290.22 | .16210 | 44.969 | 22.661 | 5.1658 | 3.4436 | 53.705 | .30479 |
| #1 | .00073 | 50.668 | -.00268 | .02107 | .00099 | -.00011 | 1.0386 | .00372 | -.00067 | .00160 | -.00019 | .00161 | 49.730 |
| #2 | -.00026 | 50.676 | .00016 | .02456 | .00026 | .00004 | 1.0410 | .00719 | -.00048 | .00172 | -.00018 | .00072 | 49.944 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25859** | **.00077** | **.00649** | **-.00004** | **-.00187** | **260.20** | **.00073** | **.01385** | **.00250** | **5.5046** | **-.00031** | **.00403** | **.03055** |
| Stddev | .03065 | .00060 | .00272 | .00000 | .00007 | .20 | .00014 | .00250 | .00193 | .1152 | .00139 | .00491 | .00805 |
| %RSD | 11.854 | 77.795 | 41.867 | 7.3640 | 3.8206 | .07698 | 19.656 | 18.032 | 77.195 | 2.0933 | 449.71 | 121.67 | 26.354 |
| #1 | .28026 | .00035 | .00457 | -.00004 | -.00192 | 260.06 | .00083 | .01209 | .00387 | 5.4232 | .00067 | .00056 | .03624 |
| #2 | .23691 | .00119 | .00841 | -.00004 | -.00182 | 260.34 | .00063 | .01562 | .00114 | 5.5861 | -.00129 | .00750 | .02486 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00093** | **.00066** | **5.1016** | **.00323** | **-.00059** | **10.416** | **-.00056** | **.00344** | **-.03009** |
| Stddev | .00052 | .00010 | .0008 | .00029 | .00160 | .059 | .00010 | .00015 | .00123 |
| %RSD | 55.788 | 14.784 | .01660 | 8.9438 | 271.52 | .56542 | 17.377 | 4.3036 | 4.0767 |
| #1 | .00056 | .00059 | 5.1010 | .00343 | .00054 | 10.375 | -.00063 | .00334 | -.03096 |
| #2 | .00130 | .00073 | 5.1022 | .00302 | -.00172 | 10.458 | -.00049 | .00355 | -.02922 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5381.5** | **68892.** | **2969.6** |
| Stddev | 31.1 | 47. | 7.7 |
| %RSD | .57845 | .06884 | .26056 |
| #1 | 5403.5 | 68925. | 2964.2 |
| #2 | 5359.5 | 68858. | 2975.1 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 15:21:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50557** | **.52072** | **1.0060** | **.52368** | **.50702** | **.50226** | **.00257** | **5.2026** | **.50777** | **.51134** | **.50469** | **.50739** |
| Stddev | .00054 | .00272 | .0034 | .00171 | .00206 | .00193 | .00086 | .0229 | .00118 | .00104 | .00183 | .00119 |
| %RSD | .10707 | .52284 | .34255 | .32561 | .40656 | .38387 | 33.366 | .44042 | .23153 | .20289 | .36180 | .23360 |
| #1 | .50518 | .52264 | 1.0085 | .52488 | .50556 | .50090 | .00317 | 5.1864 | .50861 | .51061 | .50598 | .50656 |
| #2 | .50595 | .51879 | 1.0036 | .52247 | .50848 | .50362 | .00196 | 5.2188 | .50694 | .51208 | .50340 | .50823 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5680** | **52.217** | **1.0523** | **20.197** | **.50305** | **.50715** | F **5.7255** | **.51156** | **1.0165** | **1.0221** | **.14240** | **1.0232** |
| Stddev | .0184 | .206 | .0037 | .009 | .00015 | .00097 | .0447 | .00076 | .0007 | .0004 | .00778 | .0011 |
| %RSD | .71802 | .39360 | .35634 | .04587 | .02958 | .19058 | .77996 | .14872 | .07120 | .04217 | 5.4665 | .10867 |
| #1 | 2.5550 | 52.071 | 1.0496 | 20.191 | .50294 | .50783 | 5.7571 | .51209 | 1.0160 | 1.0218 | .14790 | 1.0224 |
| #2 | 2.5810 | 52.362 | 1.0549 | 20.204 | .50315 | .50647 | 5.6939 | .51102 | 1.0170 | 1.0224 | .13690 | 1.0240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0125** | **5.0836** | **1.0110** | **.50861** | **.00177** | **.50229** | **1.0234** | **-.03779** | **.50295** | **.50309** | **.50467** |
| Stddev | .0011 | .0299 | .0018 | .00441 | .00190 | .00073 | .0031 | .00779 | .00023 | .00239 | .00438 |
| %RSD | .10813 | .58898 | .17488 | .86675 | 107.62 | .14628 | .30358 | 20.623 | .04517 | .47470 | .86875 |
| #1 | 1.0117 | 5.0624 | 1.0122 | .50549 | .00042 | .50177 | 1.0256 | -.03228 | .50279 | .50140 | .50157 |
| #2 | 1.0133 | 5.1048 | 1.0097 | .51173 | .00312 | .50281 | 1.0212 | -.04330 | .50311 | .50478 | .50777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5517.6** | **69727.** | **2942.6** |
| Stddev | 19.4 | 164. | 2.4 |
| %RSD | .35130 | .23521 | .08114 |
| #1 | 5503.9 | 69843. | 2940.9 |
| #2 | 5531.3 | 69611. | 2944.2 |

Sample Name: CCB Acquired: 5/18/2013 15:23:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **.00409** | **.00051** | F **.01240** | W **.00063** | **-.00005** | **-.00029** | W **.06209** | **.00011** | **-.00008** | **-.00009** |
| Stddev | .00004 | .00067 | .00044 | .00041 | .00008 | .00014 | .00085 | .00582 | .00007 | .00024 | .00005 |
| %RSD | 10.773 | 16.337 | 85.335 | 3.2928 | 12.841 | 274.28 | 293.07 | 9.3683 | 64.814 | 293.98 | 58.122 |
| #1 | -.00034 | .00456 | .00082 | .01269 | .00057 | .00005 | -.00089 | .06620 | .00006 | .00009 | -.00005 |
| #2 | -.00039 | .00361 | .00020 | .01212 | .00069 | -.00015 | .00031 | .05797 | .00016 | -.00025 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | .03450 | | | |
| Low Limit | | | | -.00312 | -.00058 | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **.00789** | **.19590** | **.00091** | W **.01179** | F **.00062** | **.00011** | F **.37690** | **-.00042** | **.00284** | **-.00014** |
| Stddev | .00002 | .00424 | .04070 | .00060 | .00052 | .00000 | .00025 | .00794 | .00004 | .00239 | .00061 |
| %RSD | 3.1055 | 53.765 | 20.778 | 65.716 | 4.4410 | .15197 | 223.30 | 2.1060 | 9.5665 | 84.124 | 439.61 |
| #1 | .00068 | .00489 | .22468 | .00133 | .01142 | .00063 | -.00006 | .37129 | -.00039 | .00452 | -.00057 |
| #2 | .00065 | .01090 | .16712 | .00049 | .01216 | .00062 | .00029 | .38251 | -.00045 | .00115 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .01070 | .00051 | | .10000 | | | |
| Low Limit | | | | | -.01070 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08293** | **.00181** | W **.00497** | **.03788** | **-.00014** | F **.00136** | **-.00126** | **.00039** | **-.00039** | **.00374** | **-.00003** |
| Stddev | .00976 | .00166 | .00194 | .00120 | .00124 | .00003 | .00006 | .00022 | .00061 | .02716 | .00072 |
| %RSD | 11.769 | 91.735 | 39.013 | 3.1694 | 864.15 | 1.8756 | 5.0184 | 55.806 | 157.09 | 726.74 | 2117.1 |
| #1 | .08983 | .00298 | .00360 | .03703 | .00073 | .00135 | -.00122 | .00055 | -.00082 | -.01547 | -.00054 |
| #2 | .07603 | .00064 | .00634 | .03873 | -.00102 | .00138 | -.00130 | .00024 | .00004 | .02294 | .00047 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .00486 | | | .00060 | | | | | |
| Low Limit | | | -.00486 | | | -.00060 | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00337** | **-.00081** |
| Stddev | .00032 | .00343 |
| %RSD | 9.5776 | 422.73 |
| #1 | .00360 | -.00324 |
| #2 | .00314 | .00161 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5499.5** | **69653.** | **2952.8** |
| Stddev | 9.1 | 44. | 6.6 |
| %RSD | .16459 | .06325 | .22301 |
| #1 | 5505.9 | 69622. | 2957.5 |
| #2 | 5493.1 | 69684. | 2948.1 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 15:26:09 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01019** | **.10577** | W **.01105** | **.11271** | **.01068** | **.00097** | **.10640** | **.20875** | **.00542** | **.01069** | **.01049** |
| Stddev | .00008 | .00008 | .00285 | .00034 | .00009 | .00015 | .00023 | .00369 | .00009 | .00039 | .00004 |
| %RSD | .81322 | .07396 | 25.821 | .30285 | .88462 | 15.778 | .21394 | 1.7657 | 1.7173 | 3.6101 | .40345 |
| #1 | .01014 | .10582 | .01307 | .11247 | .01062 | .00086 | .10656 | .21135 | .00536 | .01042 | .01046 |
| #2 | .01025 | .10571 | .00903 | .11295 | .01075 | .00107 | .10624 | .20614 | .00549 | .01096 | .01052 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | | | | |
| Range | | | -20.000% | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01588** | **.10373** | **3.4811** | **.01094** | **.21193** | **.01044** | **.02055** | W **1.2458** | **.04231** | **3.0021** | W **.01155** |
| Stddev | .00007 | .00369 | .0040 | .00061 | .00376 | .00018 | .00015 | .0120 | .00021 | .0171 | .00090 |
| %RSD | .42837 | 3.5612 | .11340 | 5.5808 | 1.7758 | 1.6877 | .74240 | .96497 | .48585 | .56972 | 7.7631 |
| #1 | .01592 | .10634 | 3.4783 | .01051 | .21459 | .01056 | .02044 | 1.2543 | .04246 | 2.9900 | .01092 |
| #2 | .01583 | .10111 | 3.4839 | .01137 | .20927 | .01031 | .02066 | 1.2373 | .04216 | 3.0142 | .01219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | 1.0000 | | | .00900 |
| Range | | | | | | | | 20.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02190** | **.01077** | **.01552** | **.51353** | **.10347** | **.01067** | **.01753** | **.01014** | **.01509** | F **.00575** | **.01030** |
| Stddev | .00184 | .00072 | .00251 | .00564 | .00111 | .00003 | .00021 | .00004 | .00157 | .03616 | .00109 |
| %RSD | 8.4194 | 6.6645 | 16.185 | 1.0989 | 1.0740 | .28881 | 1.2214 | .42600 | 10.432 | 629.14 | 10.570 |
| #1 | .02320 | .01127 | .01729 | .50954 | .10268 | .01064 | .01737 | .01011 | .01397 | -.01982 | .01107 |
| #2 | .02059 | .01026 | .01374 | .51752 | .10426 | .01069 | .01768 | .01017 | .01620 | .03132 | .00953 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02328** | **.01643** |
| Stddev | .00013 | .00365 |
| %RSD | .54388 | 22.236 |
| #1 | .02319 | .01902 |
| #2 | .02337 | .01385 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5511.2** | **68858.** | **2902.8** |
| Stddev | 18.3 | 417. | 24.4 |
| %RSD | .33197 | .60604 | .84117 |
| #1 | 5524.1 | 68562. | 2920.0 |
| #2 | 5498.2 | 69153. | 2885.5 |

Sample Name: MB 280-174378/1-A Acquired: 5/18/2013 15:28:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.00347** | **-.00006** | W **.00828** | **.00031** | **.00000** | **-.00208** | **.00853** | **.00005** |
| Stddev | .00003 | .00006 | .00065 | .00060 | .00053 | .00005 | .00134 | .00255 | .00004 |
| %RSD | 6.9150 | 1.5879 | 1145.2 | 7.1937 | 172.13 | 1641.2 | 64.309 | 29.849 | 86.601 |
| #1 | -.00043 | .00343 | -.00052 | .00786 | -.00007 | -.00003 | -.00303 | .01033 | .00002 |
| #2 | -.00047 | .00351 | .00041 | .00870 | .00069 | .00004 | -.00113 | .00673 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **-.00027** | **.00090** | W **.06372** | **.16775** | **-.00049** | **.00319** | **.00041** | **.00005** |
| Stddev | .00008 | .00010 | .00046 | .00685 | .00143 | .00047 | .00193 | .00002 | .00018 |
| %RSD | 40.199 | 37.323 | 51.874 | 10.753 | .85504 | 95.307 | 60.589 | 4.9585 | 367.07 |
| #1 | -.00014 | -.00020 | .00122 | .06856 | .16674 | -.00082 | .00456 | .00039 | .00017 |
| #2 | -.00025 | -.00035 | .00057 | .05887 | .16877 | -.00016 | .00182 | .00042 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10946** | **.00003** | F **.18227** | **.00108** | **.02024** | **-.00085** | **.00138** | **.03809** | **.00038** |
| Stddev | .00980 | .00016 | .00160 | .00055 | .00045 | .00184 | .00066 | .00919 | .00037 |
| %RSD | 8.9561 | 462.64 | .87574 | 51.200 | 2.2129 | 216.74 | 47.389 | 24.126 | 98.598 |
| #1 | .10253 | -.00008 | .18114 | .00147 | .02056 | .00045 | .00185 | .03160 | .00011 |
| #2 | .11640 | .00015 | .18339 | .00069 | .01993 | -.00215 | .00092 | .04459 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **-.00021** | **.00036** | **-.00082** | **-.03017** | **.00065** | **.00303** | **.00032** |
| Stddev | .00020 | .00070 | .00021 | .00044 | .02844 | .00001 | .00028 | .00188 |
| %RSD | 138.36 | 341.96 | 60.190 | 54.254 | 94.282 | 2.0171 | 9.1183 | 593.60 |
| #1 | -.00000 | -.00070 | .00020 | -.00113 | -.01005 | .00066 | .00283 | -.00101 |
| #2 | -.00028 | .00029 | .00051 | -.00050 | -.05028 | .00064 | .00323 | .00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5481.8** | **69036.** | **2884.2** |
| Stddev | 2.6 | 22. | .5 |
| %RSD | .04652 | .03187 | .01624 |
| #1 | 5479.9 | 69051. | 2883.9 |
| #2 | 5483.6 | 69020. | 2884.5 |

Sample Name: LCS 280-174378/2-A Acquired: 5/18/2013 15:31:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05384** | **2.0284** | **1.0138** | **1.0514** | **2.0603** | **.05087** | **2.0839** | **50.621** | **.10579** |
| Stddev | .00061 | .0126 | .0063 | .0042 | .0084 | .00007 | .0083 | .258 | .00044 |
| %RSD | 1.1239 | .62278 | .62468 | .40194 | .40954 | .14197 | .40021 | .50915 | .41373 |
| #1 | .05427 | 2.0374 | 1.0183 | 1.0544 | 2.0544 | .05081 | 2.0898 | 50.439 | .10610 |
| #2 | .05341 | 2.0195 | 1.0094 | 1.0484 | 2.0663 | .05092 | 2.0780 | 50.803 | .10548 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50940** | **.20518** | **.25973** | **1.0638** | **53.461** | **1.0682** | **51.351** | **.50831** | **1.0399** |
| Stddev | .00267 | .00145 | .00118 | .0100 | .237 | .0091 | .278 | .00287 | .0046 |
| %RSD | .52488 | .70687 | .45560 | .93547 | .44298 | .85486 | .54131 | .56551 | .43830 |
| #1 | .51129 | .20621 | .26056 | 1.0568 | 53.294 | 1.0617 | 51.547 | .51034 | 1.0432 |
| #2 | .50751 | .20416 | .25889 | 1.0709 | 53.629 | 1.0746 | 51.154 | .50627 | 1.0367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.675** | **.50761** | **10.579** | **.51091** | **.01541** | **.52610** | **2.0766** | **10.471** | **2.0622** |
| Stddev | .211 | .00247 | .046 | .00331 | .00069 | .00465 | .0301 | .082 | .0166 |
| %RSD | .39988 | .48664 | .43272 | .64697 | 4.4536 | .88361 | 1.4514 | .78310 | .80693 |
| #1 | 52.526 | .50936 | 10.611 | .51325 | .01493 | .52939 | 2.0979 | 10.413 | 2.0739 |
| #2 | 52.823 | .50586 | 10.547 | .50857 | .01590 | .52282 | 2.0553 | 10.529 | 2.0504 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0290** | **1.0219** | **1.0394** | **2.0772** | **2.0871** | **.51510** | **.50853** | **.50675** |
| Stddev | .0074 | .0036 | .0055 | .0187 | .0055 | .00357 | .00131 | .00753 |
| %RSD | .72120 | .34789 | .53275 | .89769 | .26547 | .69315 | .25778 | 1.4856 |
| #1 | 1.0238 | 1.0244 | 1.0433 | 2.0904 | 2.0910 | .51762 | .50946 | .50143 |
| #2 | 1.0343 | 1.0194 | 1.0355 | 2.0640 | 2.0832 | .51257 | .50761 | .51207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5299.7** | **67044.** | **2861.9** |
| Stddev | 1.7 | 475. | 9.0 |
| %RSD | .03298 | .70921 | .31367 |
| #1 | 5298.4 | 66708. | 2868.2 |
| #2 | 5300.9 | 67381. | 2855.5 |

Sample Name: 280-42039-F-11-A Acquired: 5/18/2013 15:33:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.00402** | **-.00081** | **.00922** | **.00082** | **-.00002** | **-.00193** | **.03158** | **.00012** |
| Stddev | .00047 | .00012 | .00288 | .00040 | .00034 | .00003 | .00061 | .01157 | .00018 |
| %RSD | 198.13 | 3.1112 | 353.47 | 4.3827 | 42.154 | 128.99 | 31.759 | 36.621 | 141.54 |
| #1 | -.00056 | .00410 | -.00285 | .00894 | .00057 | -.00005 | -.00236 | .03976 | -.00000 |
| #2 | .00009 | .00393 | .00122 | .00951 | .00106 | -.00000 | -.00149 | .02340 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **-.00023** | **.00063** | **.00963** | **.11226** | **.00097** | **.00679** | **.00056** | **.00035** |
| Stddev | .00011 | .00015 | .00046 | .00488 | .06342 | .00181 | .00001 | .00003 | .00006 |
| %RSD | 91.531 | 65.596 | 72.558 | 50.640 | 56.490 | 186.39 | .13220 | 4.8643 | 18.465 |
| #1 | -.00004 | -.00012 | .00031 | .00618 | .15711 | .00225 | .00680 | .00058 | .00039 |
| #2 | -.00021 | -.00034 | .00095 | .01308 | .06742 | -.00031 | .00679 | .00054 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15465** | **-.00044** | **.18730** | **-.00025** | **.01720** | **-.00084** | **-.00071** | **.02766** | **.00144** |
| Stddev | .00456 | .00015 | .00066 | .00198 | .00166 | .00172 | .00184 | .01040 | .00027 |
| %RSD | 2.9508 | 34.916 | .35110 | 783.72 | 9.6554 | 204.05 | 260.69 | 37.596 | 18.454 |
| #1 | .15788 | -.00055 | .18683 | -.00165 | .01603 | .00037 | -.00201 | .02031 | .00163 |
| #2 | .15143 | -.00033 | .18776 | .00115 | .01837 | -.00206 | .00060 | .03502 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00232** | **.00044** | **-.00060** | **-.03273** | **.00065** | **.00404** | **-.00196** |
| Stddev | .00006 | .00204 | .00024 | .00008 | .02624 | .00002 | .00039 | .00287 |
| %RSD | 59.774 | 87.941 | 55.586 | 13.145 | 80.190 | 3.3633 | 9.6936 | 146.67 |
| #1 | .00006 | .00088 | .00061 | -.00055 | -.01417 | .00066 | .00376 | .00007 |
| #2 | .00015 | .00376 | .00027 | -.00066 | -.05129 | .00063 | .00432 | -.00399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5446.3** | **68703.** | **2852.7** |
| Stddev | 7.9 | 134. | .7 |
| %RSD | .14596 | .19573 | .02618 |
| #1 | 5440.7 | 68798. | 2853.2 |
| #2 | 5451.9 | 68608. | 2852.2 |

Sample Name: sd 42039-F-11-A@5 Acquired: 5/18/2013 15:35:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **.00454** | **-.00083** | **.00709** | **.00069** | **-.00016** | **.00153** | **.01037** | **.00012** |
| Stddev | .00049 | .00007 | .00093 | .00055 | .00030 | .00001 | .00389 | .00797 | .00026 |
| %RSD | 69.353 | 1.5657 | 112.11 | 7.7589 | 43.874 | 9.2782 | 253.40 | 76.869 | 213.15 |
| #1 | -.00105 | .00449 | -.00017 | .00748 | .00048 | -.00017 | .00428 | .00474 | .00031 |
| #2 | -.00036 | .00459 | -.00148 | .00670 | .00091 | -.00015 | -.00122 | .01601 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **-.00014** | **.00051** | **.02884** | **.14176** | **.00065** | **.00350** | **.00019** | **.00024** |
| Stddev | .00015 | .00020 | .00021 | .00462 | .03447 | .00229 | .00112 | .00003 | .00033 |
| %RSD | 186.25 | 135.33 | 41.099 | 16.025 | 24.319 | 353.18 | 31.981 | 17.481 | 136.37 |
| #1 | .00003 | -.00001 | .00066 | .03211 | .16614 | .00227 | .00429 | .00017 | .00001 |
| #2 | -.00019 | -.00028 | .00036 | .02557 | .11738 | -.00097 | .00271 | .00022 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09736** | **-.00051** | **.03813** | **.00022** | **.01086** | **.00070** | **-.00123** | **.04690** | **.00109** |
| Stddev | .01372 | .00017 | .00244 | .00091 | .00097 | .00083 | .00386 | .02772 | .00023 |
| %RSD | 14.087 | 33.393 | 6.4030 | 406.46 | 8.9040 | 117.77 | 313.54 | 59.103 | 20.772 |
| #1 | .08767 | -.00063 | .03640 | -.00042 | .01154 | .00012 | .00150 | .06651 | .00093 |
| #2 | .10706 | -.00039 | .03985 | .00087 | .01018 | .00128 | -.00396 | .02730 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00061** | **.00004** | **-.00152** | **-.03040** | **.00022** | **.00418** | **.00010** |
| Stddev | .00011 | .00011 | .00016 | .00030 | .01698 | .00080 | .00032 | .00074 |
| %RSD | 311.97 | 17.453 | 363.40 | 19.451 | 55.859 | 367.46 | 7.7496 | 747.81 |
| #1 | -.00011 | .00054 | .00015 | -.00131 | -.01839 | .00079 | .00441 | .00062 |
| #2 | .00004 | .00069 | -.00007 | -.00173 | -.04240 | -.00035 | .00395 | -.00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5426.2** | **67866.** | **2821.6** |
| Stddev | 14.8 | 23. | 14.9 |
| %RSD | .27285 | .03444 | .52847 |
| #1 | 5415.7 | 67883. | 2811.0 |
| #2 | 5436.7 | 67850. | 2832.1 |

Sample Name: 280-42039-F-11-B MS Acquired: 5/18/2013 15:38:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05492** | **2.0585** | **1.0248** | **1.0660** | **2.0761** | **.05157** | **2.1067** | **51.326** | **.10706** |
| Stddev | .00065 | .0057 | .0081 | .0050 | .0049 | .00012 | .0107 | .055 | .00050 |
| %RSD | 1.1864 | .27891 | .78710 | .47092 | .23795 | .24218 | .50850 | .10705 | .47104 |
| #1 | .05446 | 2.0626 | 1.0305 | 1.0695 | 2.0796 | .05148 | 2.1142 | 51.365 | .10742 |
| #2 | .05538 | 2.0545 | 1.0191 | 1.0624 | 2.0726 | .05166 | 2.0991 | 51.287 | .10671 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51817** | **.20787** | **.26014** | **1.0646** | **54.202** | **1.0788** | **51.496** | **.51114** | **1.0537** |
| Stddev | .00221 | .00135 | .00022 | .0025 | .010 | .0058 | .033 | .00117 | .0039 |
| %RSD | .42616 | .64821 | .08419 | .23256 | .01821 | .54078 | .06330 | .22973 | .37186 |
| #1 | .51974 | .20883 | .26029 | 1.0629 | 54.209 | 1.0830 | 51.473 | .51031 | 1.0565 |
| #2 | .51661 | .20692 | .25998 | 1.0664 | 54.195 | 1.0747 | 51.519 | .51197 | 1.0509 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.659** | **.51372** | **10.756** | **.51903** | **.04950** | **.53771** | **2.1142** | **10.570** | **2.0930** |
| Stddev | .162 | .00170 | .050 | .00347 | .00393 | .00291 | .0103 | .078 | .0162 |
| %RSD | .30128 | .33158 | .46808 | .66860 | 7.9306 | .54191 | .48769 | .74120 | .77416 |
| #1 | 53.773 | .51493 | 10.791 | .52148 | .04672 | .53977 | 2.1215 | 10.514 | 2.1044 |
| #2 | 53.544 | .51252 | 10.720 | .51657 | .05227 | .53565 | 2.1069 | 10.625 | 2.0815 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0439** | **1.0324** | **1.0446** | **2.1128** | **2.0751** | **.51764** | **.51162** | **.50852** |
| Stddev | .0003 | .0016 | .0015 | .0164 | .0093 | .00137 | .00043 | .00434 |
| %RSD | .02389 | .15494 | .14198 | .77557 | .44676 | .26543 | .08379 | .85311 |
| #1 | 1.0438 | 1.0313 | 1.0436 | 2.1243 | 2.0817 | .51667 | .51132 | .50546 |
| #2 | 1.0441 | 1.0336 | 1.0457 | 2.1012 | 2.0686 | .51861 | .51192 | .51159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5258.9** | **66567.** | **2807.2** |
| Stddev | 25.4 | 16. | 7.4 |
| %RSD | .48241 | .02342 | .26218 |
| #1 | 5241.0 | 66556. | 2812.4 |
| #2 | 5276.8 | 66578. | 2802.0 |

Sample Name: 280-42039-F-11-C MSD Acquired: 5/18/2013 15:40:29 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05407** | **2.0257** | **1.0088** | **1.0550** | **2.0494** | **.05044** | **2.0738** | **50.635** | **.10566** |
| Stddev | .00035 | .0042 | .0026 | .0013 | .0123 | .00040 | .0018 | .234 | .00009 |
| %RSD | .65277 | .20516 | .25499 | .11896 | .60192 | .78458 | .08548 | .46254 | .08456 |
| #1 | .05382 | 2.0228 | 1.0107 | 1.0559 | 2.0407 | .05016 | 2.0751 | 50.469 | .10572 |
| #2 | .05432 | 2.0287 | 1.0070 | 1.0541 | 2.0582 | .05072 | 2.0725 | 50.800 | .10559 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50816** | **.20432** | **.25689** | **1.0249** | **53.629** | **1.0653** | **50.985** | **.50503** | **1.0450** |
| Stddev | .00020 | .00057 | .00052 | .0026 | .237 | .0049 | .002 | .00092 | .0003 |
| %RSD | .03953 | .27731 | .20223 | .24935 | .44266 | .45844 | .00437 | .18157 | .03167 |
| #1 | .50831 | .20472 | .25652 | 1.0267 | 53.461 | 1.0619 | 50.987 | .50438 | 1.0448 |
| #2 | .50802 | .20392 | .25726 | 1.0230 | 53.797 | 1.0688 | 50.983 | .50568 | 1.0453 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.481** | **.50646** | **10.584** | **.51000** | **.02208** | **.53051** | **2.0725** | **10.490** | **2.0714** |
| Stddev | .349 | .00026 | .028 | .00164 | .00078 | .00232 | .0197 | .003 | .0092 |
| %RSD | .66537 | .05134 | .26220 | .32169 | 3.5200 | .43773 | .94941 | .02648 | .44233 |
| #1 | 52.728 | .50628 | 10.564 | .50884 | .02263 | .52887 | 2.0586 | 10.492 | 2.0650 |
| #2 | 52.235 | .50665 | 10.603 | .51116 | .02153 | .53215 | 2.0864 | 10.488 | 2.0779 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0305** | **1.0192** | **1.0364** | **2.0761** | **2.0406** | **.51051** | **.50815** | **.50486** |
| Stddev | .0045 | .0010 | .0027 | .0094 | .0324 | .00117 | .00070 | .00237 |
| %RSD | .43156 | .10229 | .26441 | .45063 | 1.5891 | .22984 | .13862 | .46852 |
| #1 | 1.0273 | 1.0199 | 1.0345 | 2.0694 | 2.0635 | .50968 | .50765 | .50318 |
| #2 | 1.0336 | 1.0185 | 1.0384 | 2.0827 | 2.0177 | .51134 | .50865 | .50653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5251.3** | **66196.** | **2822.2** |
| Stddev | 1.3 | 178. | 11.3 |
| %RSD | .02451 | .26833 | .40097 |
| #1 | 5250.4 | 66071. | 2830.2 |
| #2 | 5252.2 | 66322. | 2814.2 |

Sample Name: pds 280-42039-F-11-A  Acquired: 5/18/2013 15:42:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05191** | **1.0525** | **.20073** | **.11641** | **.10574** | **.05125** | **-.00232** | **20.378** | **.05302** |
| Stddev | .00005 | .0006 | .00385 | .00091 | .00059 | .00019 | .00361 | .082 | .00030 |
| %RSD | .09111 | .06159 | 1.9168 | .78430 | .55633 | .37574 | 155.64 | .40177 | .56403 |
| #1 | .05194 | 1.0520 | .19801 | .11577 | .10616 | .05139 | .00023 | 20.436 | .05281 |
| #2 | .05188 | 1.0529 | .20345 | .11706 | .10532 | .05112 | -.00488 | 20.321 | .05324 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05237** | **.05226** | **.05436** | **1.0689** | **21.591** | **.11146** | **20.740** | **.05297** | **.05407** |
| Stddev | .00014 | .00037 | .00008 | .0145 | .139 | .00079 | .032 | .00004 | .00005 |
| %RSD | .26911 | .70934 | .14159 | 1.3525 | .64607 | .70643 | .15268 | .08406 | .09764 |
| #1 | .05227 | .05200 | .05441 | 1.0792 | 21.690 | .11091 | 20.762 | .05301 | .05404 |
| #2 | .05247 | .05253 | .05431 | 1.0587 | 21.493 | .11202 | 20.718 | .05294 | .05411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.564** | **.05163** | **2.2913** | **.10655** | **.02692** | **.10688** | **.20542** | **5.3494** | **.10829** |
| Stddev | .098 | .00055 | .0065 | .00155 | .00009 | .00025 | .00022 | .0347 | .00011 |
| %RSD | .45557 | 1.0677 | .28338 | 1.4555 | .32850 | .23307 | .10780 | .64897 | .10046 |
| #1 | 21.633 | .05124 | 2.2867 | .10765 | .02698 | .10670 | .20526 | 5.3248 | .10821 |
| #2 | 21.494 | .05202 | 2.2958 | .10546 | .02686 | .10706 | .20557 | 5.3739 | .10836 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05439** | **.20655** | **.05412** | **.21425** | **.48776** | **.05278** | **.21319** | **.05460** |
| Stddev | .00007 | .00381 | .00031 | .00006 | .01832 | .00007 | .00120 | .00136 |
| %RSD | .13305 | 1.8466 | .57075 | .02806 | 3.7566 | .13999 | .56072 | 2.4856 |
| #1 | .05434 | .20385 | .05434 | .21429 | .50071 | .05283 | .21404 | .05556 |
| #2 | .05444 | .20925 | .05391 | .21421 | .47480 | .05273 | .21235 | .05364 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5357.8** | **66982.** | **2855.0** |
| Stddev | 5.2 | 120. | 17.1 |
| %RSD | .09694 | .17929 | .59957 |
| #1 | 5354.2 | 67067. | 2842.9 |
| #2 | 5361.5 | 66897. | 2867.1 |

Sample Name: 280-42158-E-47-A  Acquired: 5/18/2013 15:45:02  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.03016** | **-.00232** | **.01656** | **.02891** | **-.00012** | **-.00241** | **36.485** | **.00018** |
| Stddev | .00024 | .00008 | .00061 | .00056 | .00040 | .00003 | .00078 | .278 | .00004 |
| %RSD | 169.11 | .26266 | 26.227 | 3.3650 | 1.3685 | 24.224 | 32.550 | .76139 | 22.530 |
| #1 | -.00032 | .03010 | -.00189 | .01696 | .02919 | -.00010 | -.00296 | 36.288 | .00015 |
| #2 | .00003 | .03022 | -.00275 | .01617 | .02863 | -.00014 | -.00185 | 36.681 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **-.00003** | **.00325** | **.02577** | **1.9987** | **.00191** | **9.3262** | **.00159** | **.00049** |
| Stddev | .00002 | .00006 | .00012 | .00698 | .0126 | .00055 | .0180 | .00004 | .00010 |
| %RSD | 23.000 | 175.69 | 3.7858 | 27.099 | .62922 | 28.731 | .19308 | 2.3156 | 20.109 |
| #1 | .00007 | -.00007 | .00316 | .03070 | 2.0076 | .00229 | 9.3389 | .00157 | .00042 |
| #2 | .00009 | .00001 | .00334 | .02083 | 1.9898 | .00152 | 9.3135 | .00162 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.968** | **.00026** | **.16800** | **-.00015** | **8.6259** | **-.00186** | **.00220** | **.61824** | **.00085** |
| Stddev | .013 | .00038 | .00057 | .00144 | .0625 | .00117 | .00137 | .01042 | .00037 |
| %RSD | .12242 | 145.50 | .34175 | 946.81 | .72474 | 62.981 | 62.314 | 1.6853 | 43.708 |
| #1 | 10.959 | .00053 | .16840 | .00087 | 8.6701 | -.00269 | .00123 | .61087 | .00111 |
| #2 | 10.978 | -.00001 | .16759 | -.00117 | 8.5817 | -.00103 | .00316 | .62560 | .00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18471** | **.00065** | **.00001** | **-.00071** | **-.04396** | **.00028** | **.00832** | **-.00334** |
| Stddev | .00044 | .00092 | .00019 | .00265 | .02679 | .00039 | .00059 | .00165 |
| %RSD | .23583 | 142.17 | 1765.0 | 371.08 | 60.955 | 139.80 | 7.1355 | 49.279 |
| #1 | .18440 | -.00000 | -.00012 | .00116 | -.02501 | .00056 | .00873 | -.00451 |
| #2 | .18501 | .00130 | .00014 | -.00259 | -.06290 | .00000 | .00790 | -.00218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5325.6** | **66770.** | **2832.8** |
| Stddev | 5.6 | 4. | 3.0 |
| %RSD | .10509 | .00525 | .10597 |
| #1 | 5329.6 | 66773. | 2830.6 |
| #2 | 5321.7 | 66768. | 2834.9 |

Sample Name: 280-42159-C-63-A  Acquired: 5/18/2013 15:47:29  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00472** | **.00077** | **.00647** | **.00104** | **-.00011** | **-.00139** | **.03137** | **.00011** |
| Stddev | .00140 | .00013 | .00008 | .00009 | .00072 | .00002 | .00145 | .00140 | .00003 |
| %RSD | 1847.6 | 2.6895 | 9.7706 | 1.4216 | 69.468 | 21.274 | 103.97 | 4.4520 | 31.546 |
| #1 | .00106 | .00463 | .00072 | .00653 | .00156 | -.00013 | -.00037 | .03236 | .00013 |
| #2 | -.00091 | .00480 | .00082 | .00640 | .00053 | -.00009 | -.00241 | .03039 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **-.00004** | **.00067** | **.01316** | **.11887** | **-.00086** | **.00421** | **.00051** | **-.00012** |
| Stddev | .00009 | .00023 | .00012 | .00086 | .03526 | .00172 | .00302 | .00003 | .00050 |
| %RSD | 220.40 | 618.75 | 17.485 | 6.5040 | 29.666 | 200.82 | 71.689 | 5.0512 | 414.67 |
| #1 | -.00010 | .00013 | .00059 | .01377 | .09393 | -.00207 | .00635 | .00053 | -.00047 |
| #2 | .00002 | -.00020 | .00075 | .01256 | .14380 | .00036 | .00208 | .00050 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09877** | **-.00040** | **.18079** | **.00110** | **.01758** | **-.00192** | **.00062** | **.02994** | **.00146** |
| Stddev | .01142 | .00015 | .00320 | .00198 | .00200 | .00044 | .00114 | .00621 | .00030 |
| %RSD | 11.566 | 36.336 | 1.7690 | 179.71 | 11.353 | 23.087 | 183.78 | 20.758 | 20.361 |
| #1 | .10685 | -.00030 | .18305 | -.00030 | .01899 | -.00161 | .00142 | .03433 | .00167 |
| #2 | .09070 | -.00050 | .17853 | .00250 | .01617 | -.00224 | -.00019 | .02555 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00022** | **.00010** | **-.00143** | **-.02593** | **.00015** | **.00369** | **-.00180** |
| Stddev | .00003 | .00011 | .00007 | .00073 | .01608 | .00045 | .00022 | .00285 |
| %RSD | 24.021 | 49.981 | 67.318 | 51.191 | 62.030 | 297.00 | 6.0838 | 158.11 |
| #1 | .00015 | .00014 | .00005 | -.00091 | -.01455 | .00047 | .00385 | -.00382 |
| #2 | .00011 | .00029 | .00015 | -.00195 | -.03730 | -.00017 | .00353 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5416.5** | **68773.** | **2855.7** |
| Stddev | 3.1 | 515. | 14.1 |
| %RSD | .05746 | .74918 | .49445 |
| #1 | 5418.7 | 69137. | 2845.7 |
| #2 | 5414.3 | 68409. | 2865.7 |

Sample Name: 280-42159-C-64-A  Acquired: 5/18/2013 15:49:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00040** | **.00400** | **-.00191** | **.00485** | **.00014** | **-.00008** | **-.00112** | **.01519** | **.00016** |
| Stddev | .00037 | .00006 | .00235 | .00023 | .00020 | .00016 | .00241 | .00110 | .00001 |
| %RSD | 92.577 | 1.5361 | 122.48 | 4.7989 | 136.31 | 212.41 | 215.00 | 7.2586 | 6.0448 |
| #1 | -.00014 | .00405 | -.00026 | .00501 | .00001 | -.00019 | .00058 | .01441 | .00015 |
| #2 | -.00066 | .00396 | -.00357 | .00468 | .00028 | .00004 | -.00283 | .01597 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **.00015** | **.00100** | **.00529** | **.10598** | **-.00129** | **.00440** | **.00036** | **-.00000** |
| Stddev | .00024 | .00009 | .00034 | .00466 | .02538 | .00220 | .00242 | .00006 | .00044 |
| %RSD | 89.803 | 63.181 | 33.791 | 88.099 | 23.950 | 170.24 | 55.083 | 16.102 | 14118. |
| #1 | -.00010 | .00008 | .00123 | .00200 | .12392 | -.00285 | .00268 | .00032 | -.00031 |
| #2 | -.00044 | .00021 | .00076 | .00859 | .08803 | .00026 | .00611 | .00040 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14779** | **.00025** | **.16385** | **.00099** | **.01456** | **-.00031** | **.00247** | **.06327** | **.00103** |
| Stddev | .00086 | .00038 | .00196 | .00111 | .00100 | .00104 | .00317 | .00588 | .00094 |
| %RSD | .57918 | 150.77 | 1.1938 | 112.65 | 6.8945 | 332.36 | 128.09 | 9.2856 | 91.159 |
| #1 | .14718 | -.00002 | .16247 | .00020 | .01385 | -.00105 | .00471 | .05912 | .00037 |
| #2 | .14839 | .00052 | .16523 | .00177 | .01527 | .00042 | .00023 | .06743 | .00169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **-.00026** | **-.00013** | **-.00133** | **-.04957** | **.00021** | **.00324** | **.00299** |
| Stddev | .00019 | .00159 | .00002 | .00049 | .01543 | .00007 | .00019 | .00337 |
| %RSD | 108.55 | 601.75 | 14.859 | 36.705 | 31.116 | 32.048 | 5.8295 | 112.92 |
| #1 | .00030 | -.00139 | -.00012 | -.00168 | -.03867 | .00016 | .00311 | .00537 |
| #2 | .00004 | .00086 | -.00014 | -.00099 | -.06048 | .00026 | .00337 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5430.2** | **68317.** | **2847.3** |
| Stddev | 4.9 | 17. | 22.9 |
| %RSD | .09069 | .02451 | .80339 |
| #1 | 5426.7 | 68305. | 2831.1 |
| #2 | 5433.7 | 68329. | 2863.5 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 15:52:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00085** | **50.280** | **-.00059** | **.00607** | **.00109** | **.00000** | **1.0292** | **-.00339** | **-.00082** | **.00157** | **.00126** | **.00171** | **50.014** |
| Stddev | .00040 | .253 | .00135 | .00027 | .00035 | .00005 | .0103 | .00271 | .00029 | .00003 | .00011 | .00023 | .302 |
| %RSD | 47.792 | .50386 | 230.18 | 4.5074 | 32.226 | 3218.3 | 1.0017 | 79.958 | 35.774 | 2.0969 | 8.3906 | 13.592 | .60450 |
| #1 | -.00056 | 50.459 | -.00154 | .00587 | .00084 | -.00004 | 1.0219 | -.00531 | -.00061 | .00159 | .00133 | .00154 | 50.228 |
| #2 | -.00113 | 50.101 | .00037 | .00626 | .00133 | .00004 | 1.0365 | -.00148 | -.00102 | .00154 | .00118 | .00187 | 49.801 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16001** | **.00068** | **.00259** | **.00012** | **-.00203** | **258.76** | **.00060** | **.00716** | **.00152** | **5.1487** | **.00035** | **.00518** | **.02661** |
| Stddev | .07589 | .00031 | .00120 | .00001 | .00031 | 1.59 | .00021 | .00101 | .00022 | .0277 | .00096 | .00157 | .01279 |
| %RSD | 47.430 | 46.220 | 46.417 | 11.343 | 15.394 | .61441 | 34.738 | 14.062 | 14.754 | .53794 | 278.17 | 30.286 | 48.080 |
| #1 | .10635 | .00046 | .00344 | .00013 | -.00181 | 259.88 | .00045 | .00645 | .00168 | 5.1291 | .00103 | .00629 | .01756 |
| #2 | .21368 | .00090 | .00174 | .00011 | -.00225 | 257.63 | .00074 | .00787 | .00136 | 5.1683 | -.00034 | .00407 | .03566 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00143** | **.00040** | **5.0343** | **.00327** | **-.00242** | **10.145** | **.00019** | **.00359** | **-.02659** |
| Stddev | .00092 | .00019 | .0069 | .00017 | .00003 | .014 | .00065 | .00002 | .00119 |
| %RSD | 64.333 | 47.824 | .13674 | 5.1487 | 1.1172 | .13705 | 331.93 | .49412 | 4.4741 |
| #1 | .00209 | .00026 | 5.0392 | .00339 | -.00240 | 10.135 | .00065 | .00358 | -.02574 |
| #2 | .00078 | .00053 | 5.0295 | .00315 | -.00244 | 10.155 | -.00026 | .00361 | -.02743 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5237.4** | **65758.** | **2809.2** |
| Stddev | 18.7 | 288. | 2.1 |
| %RSD | .35653 | .43814 | .07497 |
| #1 | 5224.2 | 65554. | 2810.7 |
| #2 | 5250.6 | 65962. | 2807.7 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 15:54:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52193** | **.52497** | **1.0246** | **.52284** | **.51261** | **.50643** | **.00201** | **5.1579** | **.51715** | **.52095** | **.51478** | **.52029** | **2.5923** |
| Stddev | .00516 | .00408 | .0081 | .00499 | .00061 | .00019 | .00334 | .0037 | .00415 | .00611 | .00409 | .00451 | .0151 |
| %RSD | .98924 | .77773 | .79078 | .95451 | .11941 | .03755 | 166.79 | .07200 | .80213 | 1.1719 | .79473 | .86691 | .58316 |
| #1 | .51828 | .52208 | 1.0189 | .51931 | .51304 | .50657 | -.00036 | 5.1605 | .51422 | .51663 | .51188 | .51710 | 2.6029 |
| #2 | .52558 | .52785 | 1.0303 | .52637 | .51217 | .50630 | .00437 | 5.1552 | .52008 | .52526 | .51767 | .52348 | 2.5816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.066** | **1.0676** | **20.818** | **.51662** | **.51595** | **5.3623** | **.52137** | **1.0318** | **1.0401** | **.00449** | **1.0458** | **1.0339** | **5.1300** |
| Stddev | .053 | .0005 | .172 | .00380 | .00460 | .0068 | .00494 | .0121 | .0117 | .00056 | .0034 | .0030 | .0247 |
| %RSD | .09894 | .04595 | .82682 | .73607 | .89149 | .12628 | .94755 | 1.1694 | 1.1205 | 12.518 | .32750 | .28993 | .48099 |
| #1 | 53.029 | 1.0673 | 20.696 | .51393 | .51270 | 5.3671 | .51788 | 1.0233 | 1.0318 | .00409 | 1.0434 | 1.0318 | 5.1475 |
| #2 | 53.103 | 1.0680 | 20.940 | .51931 | .51920 | 5.3575 | .52487 | 1.0403 | 1.0483 | .00488 | 1.0482 | 1.0360 | 5.1126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0340** | **.51442** | **.00152** | **.51807** | **1.0405** | **-.03249** | **.51601** | **.52123** | **.50571** |
| Stddev | .0037 | .00045 | .00059 | .00533 | .0049 | .04521 | .00541 | .00466 | .00750 |
| %RSD | .36216 | .08715 | 39.132 | 1.0285 | .47459 | 139.14 | 1.0475 | .89380 | 1.4833 |
| #1 | 1.0313 | .51410 | .00193 | .51430 | 1.0370 | -.06446 | .51218 | .51793 | .51101 |
| #2 | 1.0366 | .51474 | .00110 | .52184 | 1.0440 | -.00052 | .51983 | .52452 | .50040 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5335.1** | **66577.** | **2834.0** |
| Stddev | 37.2 | 460. | 4.2 |
| %RSD | .69711 | .69065 | .14784 |
| #1 | 5361.4 | 66902. | 2837.0 |
| #2 | 5308.8 | 66252. | 2831.1 |

Sample Name: CCB Acquired: 5/18/2013 15:57:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00032** | **-.00009** | **-.00295** | F **.00508** | W **.00082** | **.00001** | **-.00037** | **-.00532** | **.00020** | **-.00008** | **.00010** |
| Stddev | .00080 | .00004 | .00205 | .00001 | .00008 | .00019 | .00145 | .00316 | .00021 | .00039 | .00006 |
| %RSD | 250.56 | 43.113 | 69.380 | .18601 | 9.4048 | 1634.8 | 390.81 | 59.360 | 106.75 | 484.45 | 58.581 |
| #1 | -.00088 | -.00006 | -.00440 | .00508 | .00087 | -.00012 | .00065 | -.00756 | .00005 | -.00036 | .00015 |
| #2 | .00025 | -.00012 | -.00150 | .00509 | .00076 | .00015 | -.00139 | -.00309 | .00034 | .00020 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **.00278** | **.11476** | **.00169** | **.00022** | **-.00006** | **.00017** | F **.10227** | **-.00044** | **.00094** | **.00068** |
| Stddev | .00004 | .00371 | .00395 | .00140 | .00190 | .00004 | .00030 | .00534 | .00034 | .00067 | .00001 |
| %RSD | 4.2492 | 133.53 | 3.4411 | 83.225 | 874.06 | 69.968 | 172.93 | 5.2175 | 76.868 | 70.906 | 1.6064 |
| #1 | .00093 | .00541 | .11755 | .00268 | .00156 | -.00008 | -.00004 | .09849 | -.00020 | .00141 | .00068 |
| #2 | .00088 | .00016 | .11197 | .00069 | -.00112 | -.00003 | .00039 | .10604 | -.00068 | .00047 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00664** | **-.00011** | **.00362** | **-.01100** | **.00097** | **-.00000** | **.00143** | **.00011** | **-.00030** | F **-.05767** | **.00051** |
| Stddev | .00549 | .00064 | .00210 | .01548 | .00089 | .00004 | .00214 | .00002 | .00018 | .05335 | .00004 |
| %RSD | 82.641 | 602.72 | 58.079 | 140.66 | 91.330 | 3183.3 | 150.05 | 20.011 | 59.505 | 92.515 | 7.0684 |
| #1 | .00276 | .00035 | .00510 | -.02195 | .00034 | -.00003 | -.00009 | .00009 | -.00017 | -.01994 | .00053 |
| #2 | .01052 | -.00056 | .00213 | -.00006 | .00160 | .00003 | .00294 | .00012 | -.00043 | -.09539 | .00048 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | | .05000 | |
| Low Limit | | | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00270** | **.00128** |
| Stddev | .00011 | .00057 |
| %RSD | 3.9903 | 44.471 |
| #1 | .00277 | .00088 |
| #2 | .00262 | .00168 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5265.0** | **66010.** | **2776.6** |
| Stddev | 2.9 | 94. | 59.5 |
| %RSD | .05540 | .14258 | 2.1414 |
| #1 | 5262.9 | 66077. | 2734.6 |
| #2 | 5267.0 | 65944. | 2818.7 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 15:59:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00950** | **.10702** | **.01432** | **.10801** | **.01135** | **.00089** | **.10636** | **.21026** | **.00547** | **.01053** | **.01015** |
| Stddev | .00060 | .00045 | .00215 | .00016 | .00010 | .00003 | .00496 | .00035 | .00004 | .00023 | .00003 |
| %RSD | 6.3101 | .41668 | 15.003 | .14647 | .85982 | 3.3733 | 4.6683 | .16793 | .66442 | 2.2172 | .33935 |
| #1 | .00908 | .10734 | .01584 | .10812 | .01129 | .00091 | .10284 | .21001 | .00544 | .01070 | .01017 |
| #2 | .00992 | .10671 | .01280 | .10790 | .01142 | .00087 | .10987 | .21051 | .00549 | .01037 | .01013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01605** | **.10536** | **3.5081** | W **.01209** | **.21432** | **.01047** | **.02063** | W **1.2040** | **.04223** | **3.0241** | **.01001** |
| Stddev | .00041 | .00456 | .0087 | .00019 | .00169 | .00004 | .00001 | .0276 | .00008 | .0017 | .00078 |
| %RSD | 2.5531 | 4.3275 | .24762 | 1.5496 | .78646 | .42387 | .05249 | 2.2957 | .19729 | .05517 | 7.7873 |
| #1 | .01634 | .10214 | 3.5142 | .01222 | .21313 | .01050 | .02064 | 1.1845 | .04229 | 3.0253 | .00946 |
| #2 | .01576 | .10859 | 3.5019 | .01195 | .21551 | .01044 | .02062 | 1.2236 | .04217 | 3.0229 | .01057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 20.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00385** | **.01042** | **.01640** | **.52576** | **.10414** | **.01079** | **.01679** | **.01052** | **.01520** | F **.01786** | **.01014** |
| Stddev | .00442 | .00038 | .00126 | .02270 | .00048 | .00003 | .00071 | .00018 | .00064 | .01722 | .00108 |
| %RSD | 114.76 | 3.6224 | 7.6995 | 4.3178 | .46240 | .28262 | 4.2005 | 1.6959 | 4.2021 | 96.403 | 10.679 |
| #1 | .00073 | .01016 | .01550 | .54182 | .10380 | .01081 | .01630 | .01039 | .01565 | .03004 | .00938 |
| #2 | .00698 | .01069 | .01729 | .50971 | .10448 | .01077 | .01729 | .01064 | .01474 | .00569 | .01091 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02340** | **.01660** |
| Stddev | .00010 | .00044 |
| %RSD | .42436 | 2.6434 |
| #1 | .02347 | .01629 |
| #2 | .02333 | .01691 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5452.5** | **67999.** | **2790.2** |
| Stddev | .9 | 176. | 15.2 |
| %RSD | .01728 | .25827 | .54501 |
| #1 | 5453.1 | 67875. | 2801.0 |
| #2 | 5451.8 | 68123. | 2779.5 |

Sample Name: MB 280-174361/1-A Acquired: 5/18/2013 16:02:03 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **.02735** | **-.00096** | F **.03661** | **.00235** | **.00004** | **.00025** | **.07618** | **.00025** |
| Stddev | .00024 | .00535 | .00067 | .00013 | .00039 | .00020 | .00098 | .02400 | .00005 |
| %RSD | 111.92 | 19.558 | 69.234 | .36570 | 16.580 | 488.57 | 391.59 | 31.506 | 20.097 |
| #1 | -.00038 | .03113 | -.00143 | .03670 | .00207 | -.00010 | -.00044 | .05921 | .00029 |
| #2 | -.00004 | .02357 | -.00049 | .03651 | .00262 | .00018 | .00095 | .09315 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00037** | **.00267** | W **.04220** | **.19779** | **.00056** | W **.05523** | **.00100** | **.00047** |
| Stddev | .00010 | .00016 | .00042 | .01626 | .05137 | .00204 | .00752 | .00008 | .00033 |
| %RSD | 21.446 | 42.084 | 15.678 | 38.541 | 25.973 | 366.39 | 13.611 | 7.8934 | 71.102 |
| #1 | .00053 | .00026 | .00296 | .03070 | .16146 | -.00089 | .06055 | .00105 | .00070 |
| #2 | .00039 | .00048 | .00237 | .05370 | .23411 | .00200 | .04992 | .00094 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | .05000 | | |
| Low Limit | | | | -.05000 | | | -.05000 | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49784** | **.00023** | F **.09868** | **.00075** | **.06077** | **-.00066** | **.00232** | W **.05144** | **.00829** |
| Stddev | .09077 | .00018 | .00410 | .00031 | .00707 | .00049 | .00372 | .00501 | .00040 |
| %RSD | 18.233 | 76.847 | 4.1511 | 40.779 | 11.628 | 74.101 | 160.30 | 9.7349 | 4.8784 |
| #1 | .43366 | .00036 | .10158 | .00097 | .06576 | -.00031 | -.00031 | .04790 | .00858 |
| #2 | .56203 | .00011 | .09578 | .00053 | .05577 | -.00100 | .00495 | .05499 | .00801 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | W **.00530** | **.00141** | **.00192** | F **-.06670** | **.00073** | W **.00515** | **-.00183** |
| Stddev | .00041 | .00096 | .00002 | .00002 | .01335 | .00008 | .00022 | .00167 |
| %RSD | 74.274 | 18.213 | 1.7542 | 1.0645 | 20.008 | 10.589 | 4.2255 | 91.179 |
| #1 | .00026 | .00598 | .00142 | .00194 | -.07614 | .00079 | .00500 | -.00301 |
| #2 | .00084 | .00461 | .00139 | .00191 | -.05727 | .00068 | .00531 | -.00065 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | .00500 | | | .06000 | | .00500 | |
| Low Limit | | -.00500 | | | -.06000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5441.2** | **68406.** | **2846.9** |
| Stddev | 9.2 | 136. | 10.4 |
| %RSD | .16871 | .19832 | .36651 |
| #1 | 5447.7 | 68310. | 2854.3 |
| #2 | 5434.7 | 68502. | 2839.5 |

Sample Name: LCS 280-174361/2-A Acquired: 5/18/2013 16:04:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05431** | **2.1273** | **1.0138** | F **1.3174** | **2.0739** | **.05168** | **2.0871** | **51.268** | **.10619** |
| Stddev | .00036 | .0009 | .0039 | .0013 | .0188 | .00007 | .0013 | .392 | .00025 |
| %RSD | .66751 | .04076 | .38002 | .09639 | .90574 | .14508 | .06177 | .76416 | .23824 |
| #1 | .05405 | 2.1279 | 1.0166 | 1.3182 | 2.0606 | .05162 | 2.0880 | 50.991 | .10637 |
| #2 | .05456 | 2.1266 | 1.0111 | 1.3165 | 2.0872 | .05173 | 2.0862 | 51.545 | .10602 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51345** | **.20623** | **.26940** | **1.0678** | **54.492** | **1.0823** | **51.221** | **.50778** | **1.0432** |
| Stddev | .00052 | .00029 | .00059 | .0113 | .391 | .0048 | .013 | .00067 | .0026 |
| %RSD | .10060 | .13843 | .21956 | 1.0575 | .71686 | .44493 | .02608 | .13162 | .24558 |
| #1 | .51382 | .20643 | .26982 | 1.0758 | 54.216 | 1.0789 | 51.212 | .50731 | 1.0450 |
| #2 | .51309 | .20603 | .26898 | 1.0599 | 54.768 | 1.0857 | 51.231 | .50825 | 1.0413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.038** | **.51200** | **10.654** | **.51291** | **.04425** | **.52413** | **2.0733** | F **.95959** | **2.0619** |
| Stddev | .118 | .00093 | .007 | .00137 | .00002 | .00005 | .0015 | .00116 | .0093 |
| %RSD | .21854 | .18109 | .06920 | .26645 | .05525 | .01000 | .07421 | .12125 | .44961 |
| #1 | 54.122 | .51265 | 10.659 | .51388 | .04427 | .52409 | 2.0744 | .96042 | 2.0684 |
| #2 | 53.955 | .51134 | 10.648 | .51194 | .04423 | .52417 | 2.0722 | .95877 | 2.0553 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 7.0000 | |
| Low Limit | | | | | | | | 1.0000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0424** | **1.0146** | **1.0428** | **2.0772** | **2.0673** | **.51317** | **.51361** | **.50593** |
| Stddev | .0097 | .0004 | .0018 | .0023 | .0196 | .00128 | .00057 | .00365 |
| %RSD | .92544 | .03795 | .17187 | .10938 | .94894 | .24878 | .11047 | .72109 |
| #1 | 1.0356 | 1.0148 | 1.0415 | 2.0788 | 2.0811 | .51407 | .51401 | .50851 |
| #2 | 1.0492 | 1.0143 | 1.0441 | 2.0755 | 2.0534 | .51227 | .51321 | .50335 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5268.9** | **66298.** | **2793.8** |
| Stddev | 8.3 | 111. | 16.8 |
| %RSD | .15839 | .16709 | .60002 |
| #1 | 5263.0 | 66377. | 2805.6 |
| #2 | 5274.8 | 66220. | 2781.9 |

Sample Name: 280-42159-A-25-A  Acquired: 5/18/2013 16:06:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00071** | **60.863** | **.01824** | **.02602** | **.19837** | **.00252** | **-.00007** | **36.438** | **.00091** |
| Stddev | .00037 | .101 | .00015 | .00018 | .00022 | .00012 | .00109 | .095 | .00001 |
| %RSD | 52.880 | .16566 | .81540 | .69718 | .11125 | 4.6157 | 1637.1 | .26191 | 1.1446 |
| #1 | -.00097 | 60.935 | .01813 | .02615 | .19822 | .00244 | .00070 | 36.505 | .00092 |
| #2 | -.00044 | 60.792 | .01834 | .02589 | .19853 | .00260 | -.00083 | 36.370 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04068** | **.06806** | **.16281** | **119.74** | **7.9725** | **.11651** | **26.108** | **2.3534** | **.00003** |
| Stddev | .00016 | .00010 | .00106 | .01 | .0189 | .00231 | .042 | .0067 | .00002 |
| %RSD | .38501 | .14831 | .65241 | .00708 | .23686 | 1.9839 | .16048 | .28491 | 71.997 |
| #1 | .04057 | .06813 | .16206 | 119.75 | 7.9592 | .11487 | 26.078 | 2.3487 | .00005 |
| #2 | .04079 | .06799 | .16356 | 119.74 | 7.9859 | .11814 | 26.138 | 2.3582 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1083** | **.10190** | **3.2119** | **.03184** | **.32581** | **-.00121** | **.00346** | **2.8910** | **.00532** |
| Stddev | .0271 | .00007 | .0012 | .00112 | .00173 | .00038 | .00011 | .0563 | .00010 |
| %RSD | 1.2855 | .07312 | .03615 | 3.5183 | .52965 | 31.832 | 3.2396 | 1.9484 | 1.8906 |
| #1 | 2.1274 | .10184 | 3.2111 | .03264 | .32703 | -.00094 | .00338 | 2.8512 | .00524 |
| #2 | 2.0891 | .10195 | 3.2127 | .03105 | .32459 | -.00148 | .00354 | 2.9308 | .00539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08654** | **.03552** | **.24190** | **-.00105** | **-.02883** | **.10072** | **.27995** | **.02805** |
| Stddev | .00036 | .00089 | .00006 | .00034 | .03532 | .00000 | .00066 | .00070 |
| %RSD | .41338 | 2.4920 | .02681 | 32.697 | 122.50 | .00040 | .23666 | 2.4966 |
| #1 | .08679 | .03615 | .24195 | -.00081 | -.05380 | .10072 | .28042 | .02755 |
| #2 | .08628 | .03489 | .24185 | -.00130 | -.00386 | .10072 | .27948 | .02854 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5827.8** | **73391.** | **3134.5** |
| Stddev | .7 | 41. | 12.3 |
| %RSD | .01269 | .05593 | .39278 |
| #1 | 5827.3 | 73420. | 3125.8 |
| #2 | 5828.4 | 73362. | 3143.2 |

Sample Name: 280-42159-A-26-A  Acquired: 5/18/2013 16:09:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00082** | **32.521** | **.01167** | **.06933** | **.20296** | **.00150** | **-.00431** | W **1782.7** | **.00088** |
| Stddev | .00032 | .013 | .00337 | .00003 | .00074 | .00004 | .00075 | .9 | .00001 |
| %RSD | 38.680 | .04096 | 28.856 | .04574 | .36315 | 2.4572 | 17.422 | .04857 | .84154 |
| #1 | -.00104 | 32.512 | .00929 | .06935 | .20348 | .00147 | -.00378 | 1783.3 | .00088 |
| #2 | -.00060 | 32.531 | .01405 | .06931 | .20244 | .00152 | -.00484 | 1782.0 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02071** | **.05665** | **.19142** | **65.063** | **9.2531** | **.09675** | **65.998** | **1.5865** | **.00459** |
| Stddev | .00009 | .00009 | .00019 | .016 | .0439 | .00072 | .041 | .0015 | .00039 |
| %RSD | .44106 | .16362 | .10109 | .02460 | .47401 | .74630 | .06252 | .09628 | 8.4028 |
| #1 | .02064 | .05658 | .19156 | 65.074 | 9.2221 | .09624 | 66.027 | 1.5876 | .00432 |
| #2 | .02077 | .05671 | .19128 | 65.052 | 9.2841 | .09726 | 65.969 | 1.5854 | .00487 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8073** | **.08476** | **3.1727** | **.07116** | **18.993** | **.00766** | **.00248** | **1.7410** | **.00358** |
| Stddev | .0138 | .00053 | .0192 | .00020 | .008 | .00008 | .00493 | .0022 | .00008 |
| %RSD | .36305 | .62630 | .60402 | .27632 | .04055 | 1.0995 | 199.13 | .12783 | 2.1571 |
| #1 | 3.8171 | .08439 | 3.1591 | .07103 | 18.999 | .00760 | -.00101 | 1.7425 | .00352 |
| #2 | 3.7975 | .08514 | 3.1862 | .07130 | 18.988 | .00772 | .00596 | 1.7394 | .00363 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4073** | **.02449** | **.25093** | **-.00083** | F **-.13273** | **.36772** | **.42469** | **.03125** |
| Stddev | .0041 | .00082 | .00013 | .00053 | .02373 | .00099 | .00057 | .00032 |
| %RSD | .16845 | 3.3411 | .05252 | 63.508 | 17.879 | .27015 | .13406 | 1.0264 |
| #1 | 2.4044 | .02391 | .25084 | -.00046 | -.11595 | .36842 | .42428 | .03147 |
| #2 | 2.4101 | .02507 | .25102 | -.00121 | -.14951 | .36702 | .42509 | .03102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5194.1** | **66376.** | **2974.6** |
| Stddev | 14.1 | 93. | 8.1 |
| %RSD | .27126 | .14003 | .27219 |
| #1 | 5204.1 | 66442. | 2980.3 |
| #2 | 5184.2 | 66310. | 2968.8 |

Sample Name: 280-42159-A-27-A  Acquired: 5/18/2013 16:12:07  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **79.818** | **.02790** | **.02934** | **.25435** | **.00322** | **.00283** | **192.43** | **.00155** |
| Stddev | .00005 | .201 | .00171 | .00001 | .00079 | .00007 | .00036 | .34 | .00001 |
| %RSD | 5.0941 | .25210 | 6.1306 | .03479 | .30911 | 2.0647 | 12.670 | .17578 | .37074 |
| #1 | .00102 | 79.960 | .02669 | .02933 | .25490 | .00327 | .00308 | 192.67 | .00155 |
| #2 | .00095 | 79.676 | .02910 | .02934 | .25379 | .00317 | .00258 | 192.19 | .00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05816** | **.08835** | **.23495** | **143.44** | **9.5141** | **.15654** | **32.732** | **6.6333** | **.00168** |
| Stddev | .00025 | .00023 | .00269 | .11 | .0023 | .00320 | .303 | .0130 | .00013 |
| %RSD | .42973 | .25748 | 1.1459 | .07764 | .02456 | 2.0454 | .92419 | .19520 | 7.4817 |
| #1 | .05798 | .08819 | .23304 | 143.36 | 9.5157 | .15881 | 32.518 | 6.6242 | .00160 |
| #2 | .05833 | .08851 | .23685 | 143.51 | 9.5124 | .15428 | 32.946 | 6.6425 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0605** | **.12056** | **3.7781** | **.05238** | **1.7649** | **-.00412** | **.00597** | **2.1992** | **.00553** |
| Stddev | .0046 | .00042 | .0068 | .00291 | .0049 | .00111 | .00681 | .0035 | .00030 |
| %RSD | .15010 | .34608 | .17941 | 5.5491 | .27525 | 27.040 | 114.05 | .16022 | 5.5014 |
| #1 | 3.0637 | .12086 | 3.7829 | .05444 | 1.7614 | -.00491 | .01079 | 2.1967 | .00574 |
| #2 | 3.0572 | .12027 | 3.7733 | .05033 | 1.7683 | -.00333 | .00116 | 2.2017 | .00531 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24686** | **.04424** | **.33647** | **-.00420** | W **-.05357** | **.13746** | **.45704** | **.01481** |
| Stddev | .00065 | .00286 | .00275 | .00063 | .00528 | .00059 | .00588 | .00513 |
| %RSD | .26283 | 6.4731 | .81684 | 15.041 | 9.8510 | .42705 | 1.2857 | 34.675 |
| #1 | .24732 | .04221 | .33453 | -.00465 | -.05730 | .13704 | .45289 | .01118 |
| #2 | .24640 | .04626 | .33842 | -.00375 | -.04983 | .13787 | .46120 | .01844 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5708.2** | **71126.** | **3104.0** |
| Stddev | 4.7 | 386. | .3 |
| %RSD | .08256 | .54265 | .01060 |
| #1 | 5711.6 | 71399. | 3103.8 |
| #2 | 5704.9 | 70853. | 3104.3 |

Sample Name: 280-42159-A-28-A  Acquired: 5/18/2013 16:14:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **94.871** | **.04273** | **.02001** | **.41007** | **.00346** | **.00188** | **27.495** | **.00398** |
| Stddev | .00002 | .682 | .00236 | .00020 | .00269 | .00008 | .00065 | .276 | .00016 |
| %RSD | 4.6517 | .71906 | 5.5250 | 1.0198 | .65682 | 2.2084 | 34.524 | 1.0022 | 3.9507 |
| #1 | .00044 | 95.353 | .04106 | .01987 | .41198 | .00352 | .00142 | 27.690 | .00387 |
| #2 | .00042 | 94.388 | .04440 | .02016 | .40817 | .00341 | .00234 | 27.300 | .00410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05663** | **.09220** | **.22619** | **143.75** | **6.6802** | **.16394** | **20.314** | **4.4538** | **.00216** |
| Stddev | .00084 | .00042 | .00134 | .08 | .0188 | .00282 | .144 | .0099 | .00012 |
| %RSD | 1.4799 | .45706 | .59203 | .05267 | .28084 | 1.7222 | .70966 | .22221 | 5.6062 |
| #1 | .05603 | .09190 | .22714 | 143.70 | 6.6670 | .16593 | 20.416 | 4.4608 | .00207 |
| #2 | .05722 | .09249 | .22524 | 143.81 | 6.6935 | .16194 | 20.212 | 4.4468 | .00224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.5243** | **.09827** | **3.6322** | **.07909** | **1.8775** | **-.00355** | **.00737** | **2.1054** | **.00901** |
| Stddev | .0154 | .00091 | .0148 | .00109 | .0048 | .00113 | .00631 | .0227 | .00057 |
| %RSD | .43751 | .92184 | .40726 | 1.3815 | .25444 | 31.916 | 85.683 | 1.0775 | 6.3390 |
| #1 | 3.5352 | .09763 | 3.6217 | .07832 | 1.8741 | -.00435 | .00290 | 2.1214 | .00861 |
| #2 | 3.5134 | .09891 | 3.6427 | .07986 | 1.8808 | -.00275 | .01183 | 2.0893 | .00942 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07027** | **.04188** | **.43273** | **-.00391** | **-.03684** | **.16448** | **.64988** | **.01673** |
| Stddev | .00017 | .00005 | .00133 | .00035 | .04263 | .00210 | .00467 | .00015 |
| %RSD | .24112 | .12855 | .30783 | 9.0114 | 115.71 | 1.2775 | .71886 | .89421 |
| #1 | .07015 | .04192 | .43179 | -.00416 | -.00670 | .16596 | .65318 | .01683 |
| #2 | .07039 | .04184 | .43368 | -.00366 | -.06698 | .16299 | .64657 | .01662 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5659.0** | **70573.** | **3082.5** |
| Stddev | 20.0 | 432. | 25.6 |
| %RSD | .35292 | .61187 | .82953 |
| #1 | 5673.1 | 70268. | 3064.4 |
| #2 | 5644.9 | 70879. | 3100.5 |

Sample Name: 280-42159-A-29-A  Acquired: 5/18/2013 16:16:56  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **55.786** | **.03169** | **.03782** | **.24359** | **.00222** | **-.00032** | W **762.14** | **.00096** |
| Stddev | .00026 | .043 | .00000 | .00021 | .00020 | .00002 | .00353 | 13.09 | .00020 |
| %RSD | 69.541 | .07772 | .00952 | .54569 | .08224 | 1.1017 | 1119.9 | 1.7181 | 20.271 |
| #1 | -.00019 | 55.756 | .03169 | .03797 | .24373 | .00220 | .00218 | 752.88 | .00083 |
| #2 | -.00055 | 55.817 | .03169 | .03767 | .24344 | .00223 | -.00281 | 771.40 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04231** | **.06997** | **.18896** | **108.33** | **9.3047** | **.11395** | **40.713** | **4.3730** | **.00186** |
| Stddev | .00010 | .00059 | .00122 | .06 | .0402 | .00349 | .319 | .0295 | .00003 |
| %RSD | .23040 | .84165 | .64527 | .05180 | .43236 | 3.0642 | .78412 | .67345 | 1.5873 |
| #1 | .04237 | .06956 | .18982 | 108.29 | 9.3331 | .11642 | 40.939 | 4.3521 | .00188 |
| #2 | .04224 | .07039 | .18809 | 108.37 | 9.2762 | .11148 | 40.488 | 4.3938 | .00184 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3117** | **.10198** | **3.0086** | **.09542** | **3.5096** | **.00030** | **.00292** | **2.4590** | **.00442** |
| Stddev | .0136 | .00111 | .0228 | .00055 | .0233 | .00089 | .00433 | .0301 | .00096 |
| %RSD | 1.0364 | 1.0892 | .75935 | .57593 | .66296 | 302.27 | 148.29 | 1.2232 | 21.837 |
| #1 | 1.3021 | .10119 | 2.9925 | .09504 | 3.4932 | -.00034 | -.00014 | 2.4803 | .00510 |
| #2 | 1.3213 | .10276 | 3.0248 | .09581 | 3.5261 | .00093 | .00598 | 2.4377 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0659** | **.03621** | **.30370** | **-.00424** | W **-.08586** | **.14071** | **.30753** | **.03213** |
| Stddev | .0005 | .00213 | .00588 | .00099 | .00838 | .00220 | .00283 | .00001 |
| %RSD | .04845 | 5.8722 | 1.9352 | 23.297 | 9.7555 | 1.5624 | .91927 | .01749 |
| #1 | 1.0655 | .03771 | .30786 | -.00354 | -.07993 | .14227 | .30953 | .03213 |
| #2 | 1.0662 | .03470 | .29955 | -.00493 | -.09178 | .13916 | .30553 | .03214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5359.4** | **67801.** | **2990.2** |
| Stddev | 32.8 | 382. | 7.3 |
| %RSD | .61183 | .56365 | .24383 |
| #1 | 5382.6 | 67531. | 2995.3 |
| #2 | 5336.2 | 68071. | 2985.0 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 16:19:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **50.742** | **-.00204** | **.00503** | **.00093** | **.00005** | **1.0192** | **.04217** | **-.00058** | **.00176** | **-.00000** | **.00119** | **50.379** |
| Stddev | .00136 | .269 | .00030 | .00002 | .00005 | .00004 | .0142 | .02856 | .00015 | .00007 | .00008 | .00007 | .482 |
| %RSD | 759.35 | .52999 | 14.467 | .40074 | 5.3731 | 74.975 | 1.3931 | 67.722 | 25.408 | 3.9935 | 1702.6 | 6.0909 | .95673 |
| #1 | .00114 | 50.932 | -.00225 | .00502 | .00097 | .00008 | 1.0092 | .06237 | -.00048 | .00180 | -.00006 | .00124 | 50.720 |
| #2 | -.00078 | 50.552 | -.00183 | .00505 | .00089 | .00002 | 1.0293 | .02198 | -.00068 | .00171 | .00005 | .00114 | 50.038 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11604** | **-.00037** | **.00610** | **.00046** | **-.00162** | **261.58** | **.00096** | **.00904** | **.00063** | **5.1066** | **.00265** | **.00799** | **.01540** |
| Stddev | .02690 | .00068 | .00500 | .00007 | .00004 | 1.81 | .00031 | .00283 | .00137 | .0545 | .00142 | .00489 | .00025 |
| %RSD | 23.182 | 182.38 | 81.942 | 15.326 | 2.5702 | .69345 | 32.246 | 31.349 | 217.30 | 1.0679 | 53.374 | 61.236 | 1.6308 |
| #1 | .09702 | .00011 | .00257 | .00050 | -.00159 | 262.87 | .00074 | .00704 | .00160 | 5.0681 | .00365 | .01145 | .01522 |
| #2 | .13506 | -.00086 | .00963 | .00041 | -.00165 | 260.30 | .00118 | .01105 | -.00034 | 5.1452 | .00165 | .00453 | .01557 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00133** | **.00046** | **5.0271** | **.00345** | **-.00108** | **10.161** | **-.00035** | **.00370** | **-.03016** |
| Stddev | .00053 | .00036 | .0106 | .00007 | .00042 | .003 | .00053 | .00005 | .00257 |
| %RSD | 39.670 | 77.392 | .20979 | 2.1089 | 38.603 | .02973 | 150.92 | 1.3547 | 8.5175 |
| #1 | .00096 | .00021 | 5.0346 | .00350 | -.00138 | 10.159 | .00002 | .00367 | -.02835 |
| #2 | .00170 | .00071 | 5.0197 | .00340 | -.00079 | 10.163 | -.00072 | .00374 | -.03198 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5251.9** | **66078.** | **2775.3** |
| Stddev | 60.1 | 12. | 24.2 |
| %RSD | 1.1441 | .01839 | .87375 |
| #1 | 5294.4 | 66086. | 2758.2 |
| #2 | 5209.4 | 66069. | 2792.5 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 16:22:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50576** | **.54311** | **.97871** | **.50157** | **.50273** | **.49441** | **.00178** | **5.3688** | **.49563** | **.49896** | **.49059** | **.50036** | **2.5943** |
| Stddev | .00178 | .00461 | .00239 | .00084 | .00361 | .00388 | .00195 | .0306 | .00198 | .00235 | .00239 | .00153 | .0057 |
| %RSD | .35172 | .84822 | .24434 | .16651 | .71777 | .78456 | 109.24 | .56913 | .40022 | .47085 | .48759 | .30529 | .21918 |
| #1 | .50450 | .54637 | .98040 | .50216 | .50528 | .49715 | .00041 | 5.3904 | .49703 | .50062 | .49228 | .49928 | 2.5983 |
| #2 | .50702 | .53985 | .97702 | .50098 | .50017 | .49166 | .00316 | 5.3472 | .49422 | .49730 | .48890 | .50144 | 2.5903 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.218** | **1.0506** | **20.057** | **.50130** | **.49181** | **5.2718** | **.49896** | **.99652** | **1.0014** | **.00695** | **1.0016** | **.99906** | **5.0006** |
| Stddev | .242 | .0037 | .071 | .00334 | .00075 | .0887 | .00026 | .00360 | .0002 | .00208 | .0015 | .00203 | .0063 |
| %RSD | .46340 | .35579 | .35428 | .66655 | .15211 | 1.6825 | .05228 | .36161 | .02283 | 29.955 | .15109 | .20364 | .12503 |
| #1 | 52.390 | 1.0532 | 20.006 | .49893 | .49128 | 5.3345 | .49878 | .99398 | 1.0015 | .00842 | 1.0005 | 1.0005 | 5.0051 |
| #2 | 52.047 | 1.0479 | 20.107 | .50366 | .49234 | 5.2090 | .49915 | .99907 | 1.0012 | .00548 | 1.0026 | .99762 | 4.9962 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98223** | **.50577** | **.00105** | **.50001** | **.99673** | **-.01133** | **.49586** | **.50125** | **.49623** |
| Stddev | .00039 | .00154 | .00277 | .00304 | .00092 | .05552 | .00285 | .00301 | .00737 |
| %RSD | .03966 | .30539 | 265.05 | .60837 | .09191 | 490.20 | .57412 | .59955 | 1.4850 |
| #1 | .98195 | .50686 | -.00091 | .49786 | .99608 | .02793 | .49385 | .49913 | .50144 |
| #2 | .98250 | .50468 | .00301 | .50216 | .99738 | -.05059 | .49787 | .50338 | .49102 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5553.3** | **69306.** | **2891.1** |
| Stddev | 18.3 | 180. | 4.0 |
| %RSD | .33042 | .25944 | .13886 |
| #1 | 5540.3 | 69433. | 2888.3 |
| #2 | 5566.2 | 69179. | 2893.9 |

Sample Name: CCB Acquired: 5/18/2013 16:24:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | W **.03253** | **-.00055** | F **.00387** | F **.00160** | **-.00002** | **-.00078** | F **.27229** | **.00002** | **-.00011** | **-.00027** |
| Stddev | .00066 | .00061 | .00335 | .00089 | .00019 | .00014 | .00121 | .00353 | .00015 | .00007 | .00011 |
| %RSD | 421.69 | 1.8785 | 611.45 | 22.892 | 11.980 | 603.52 | 156.71 | 1.2966 | 647.27 | 61.242 | 42.454 |
| #1 | .00062 | .03296 | -.00292 | .00450 | .00174 | .00008 | -.00163 | .26979 | .00013 | -.00016 | -.00019 |
| #2 | -.00031 | .03210 | .00182 | .00325 | .00146 | -.00012 | .00008 | .27478 | -.00008 | -.00006 | -.00035 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .01800 | | .00312 | .00115 | | | .06900 | | | |
| Low Limit | | -.01800 | | -.00312 | -.00115 | | | -.06900 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | F **.06337** | **.12859** | **.00130** | F **.02260** | F **.00184** | **.00044** | F **.10460** | **-.00051** | **.00367** | **-.00033** |
| Stddev | .00050 | .00397 | .01721 | .00004 | .00287 | .00005 | .00016 | .02052 | .00024 | .00121 | .00146 |
| %RSD | 83.775 | 6.2695 | 13.385 | 3.2091 | 12.709 | 2.6758 | 36.393 | 19.617 | 47.257 | 33.057 | 443.43 |
| #1 | .00024 | .06618 | .11641 | .00133 | .02463 | .00187 | .00033 | .11911 | -.00068 | .00281 | .00070 |
| #2 | .00096 | .06056 | .14076 | .00127 | .02056 | .00180 | .00055 | .09009 | -.00034 | .00453 | -.00136 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | | | .02140 | .00051 | | .10000 | | | |
| Low Limit | | -.04400 | | | -.02140 | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00538** | **-.00250** | **.00017** | **-.00518** | **.00045** | F **.00071** | **.00107** | **.00042** | **.00099** | **-.01114** | **.00011** |
| Stddev | .00131 | .00095 | .00463 | .00023 | .00019 | .00000 | .00087 | .00005 | .00036 | .01255 | .00031 |
| %RSD | 24.365 | 37.898 | 2800.3 | 4.3750 | 42.877 | .56920 | 81.441 | 12.289 | 36.236 | 112.67 | 272.98 |
| #1 | .00630 | -.00317 | .00344 | -.00534 | .00032 | .00070 | .00168 | .00046 | .00124 | -.00226 | .00033 |
| #2 | .00445 | -.00183 | -.00311 | -.00502 | .00059 | .00071 | .00045 | .00039 | .00074 | -.02001 | -.00011 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00060 | | | | | |
| Low Limit | | | | | | -.00060 | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00267** | **.00029** |
| Stddev | .00045 | .00361 |
| %RSD | 16.691 | 1260.0 |
| #1 | .00298 | -.00226 |
| #2 | .00235 | .00284 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5531.4** | **69475.** | **2909.4** |
| Stddev | 3.6 | 315. | 9.2 |
| %RSD | .06500 | .45274 | .31702 |
| #1 | 5533.9 | 69252. | 2915.9 |
| #2 | 5528.9 | 69697. | 2902.9 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 16:27:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00944** | W **.12297** | **.01406** | **.10278** | **.01106** | **.00089** | **.10111** | F **.42240** | **.00516** | **.01043** | **.00999** |
| Stddev | .00001 | .00553 | .00002 | .00055 | .00024 | .00012 | .00122 | .00082 | .00007 | .00003 | .00017 |
| %RSD | .07545 | 4.4964 | .15463 | .53116 | 2.1712 | 13.079 | 1.2080 | .19358 | 1.2604 | .26515 | 1.7190 |
| #1 | .00945 | .12688 | .01404 | .10316 | .01123 | .00097 | .10198 | .42182 | .00521 | .01045 | .01011 |
| #2 | .00944 | .11906 | .01407 | .10239 | .01089 | .00080 | .10025 | .42298 | .00511 | .01041 | .00987 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | .20000 | | | |
| Range | | 20.000% | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01494** | F **.15183** | **3.2810** | F **.01331** | **.22216** | **.01151** | **.01985** | **1.1289** | **.04017** | **2.8976** | **.00949** |
| Stddev | .00007 | .00030 | .1063 | .00079 | .00118 | .00007 | .00012 | .0158 | .00002 | .0102 | .00048 |
| %RSD | .44961 | .19497 | 3.2395 | 5.9065 | .53066 | .62269 | .58722 | 1.3993 | .04845 | .35227 | 5.0304 |
| #1 | .01498 | .15162 | 3.2058 | .01275 | .22299 | .01146 | .01994 | 1.1178 | .04016 | 2.9048 | .00915 |
| #2 | .01489 | .15204 | 3.3561 | .01387 | .22132 | .01156 | .01977 | 1.1401 | .04019 | 2.8904 | .00982 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | .01000 | | | | | | | |
| Range | | 30.000% | | 30.000% | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00332** | **.00828** | **.01529** | **.49481** | **.09862** | **.01066** | **.01606** | **.00972** | **.01473** | **.06605** | **.01037** |
| Stddev | .00045 | .00105 | .00186 | .01508 | .00074 | .00009 | .00002 | .00012 | .00037 | .00783 | .00003 |
| %RSD | 13.430 | 12.629 | 12.135 | 3.0472 | .75516 | .86350 | .09995 | 1.2113 | 2.5385 | 11.848 | .25828 |
| #1 | .00300 | .00754 | .01660 | .50547 | .09810 | .01072 | .01607 | .00964 | .01446 | .07159 | .01035 |
| #2 | .00363 | .00902 | .01398 | .48415 | .09915 | .01059 | .01605 | .00981 | .01499 | .06052 | .01039 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02326** | **.01467** |
| Stddev | .00008 | .00058 |
| %RSD | .33743 | 3.9300 |
| #1 | .02320 | .01508 |
| #2 | .02331 | .01427 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5575.8** | **69512.** | **2912.4** |
| Stddev | 6.1 | 349. | 2.4 |
| %RSD | .10852 | .50275 | .08331 |
| #1 | 5571.6 | 69265. | 2914.2 |
| #2 | 5580.1 | 69759. | 2910.7 |

Sample Name: 280-42159-A-30-A  Acquired: 5/18/2013 16:29:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **57.878** | **.03008** | **.02516** | **.22487** | **.00249** | **.00185** | **27.544** | **.00069** |
| Stddev | .00048 | .502 | .00140 | .00049 | .00155 | .00016 | .00185 | .188 | .00004 |
| %RSD | 120.50 | .86811 | 4.6515 | 1.9348 | .69097 | 6.3329 | 99.817 | .68141 | 6.4115 |
| #1 | .00074 | 57.523 | .02909 | .02550 | .22378 | .00237 | .00316 | 27.412 | .00065 |
| #2 | .00006 | 58.233 | .03107 | .02482 | .22597 | .00260 | .00054 | 27.677 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04042** | **.06654** | **.16018** | **114.14** | **8.4842** | **.10671** | **24.181** | **5.6213** | **.00150** |
| Stddev | .00016 | .00037 | .00242 | 1.10 | .0583 | .00074 | .323 | .0918 | .00006 |
| %RSD | .40134 | .56355 | 1.5126 | .96257 | .68692 | .69492 | 1.3353 | 1.6328 | 3.7016 |
| #1 | .04053 | .06628 | .16189 | 113.36 | 8.4430 | .10618 | 24.410 | 5.6862 | .00147 |
| #2 | .04030 | .06681 | .15847 | 114.92 | 8.5254 | .10723 | 23.953 | 5.5564 | .00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74613** | **.09612** | **3.1497** | **.02792** | **.16912** | **-.00264** | **.00124** | **1.8725** | **.00473** |
| Stddev | .01343 | .00021 | .0059 | .00061 | .00101 | .00341 | .00016 | .0804 | .00091 |
| %RSD | 1.7997 | .22203 | .18835 | 2.1813 | .59490 | 129.09 | 13.285 | 4.2927 | 19.169 |
| #1 | .73664 | .09596 | 3.1455 | .02835 | .16983 | -.00023 | .00135 | 1.8157 | .00537 |
| #2 | .75563 | .09627 | 3.1539 | .02749 | .16841 | -.00505 | .00112 | 1.9294 | .00409 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08570** | **.03672** | **.25736** | **-.00174** | **-.04864** | **.10063** | **.27046** | **.02289** |
| Stddev | .00087 | .00116 | .00302 | .00086 | .01068 | .00130 | .00308 | .00068 |
| %RSD | 1.0175 | 3.1490 | 1.1733 | 49.099 | 21.948 | 1.2926 | 1.1392 | 2.9810 |
| #1 | .08509 | .03590 | .25949 | -.00114 | -.04109 | .10155 | .27263 | .02338 |
| #2 | .08632 | .03754 | .25522 | -.00235 | -.05619 | .09971 | .26828 | .02241 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6012.4** | **75096.** | **3253.6** |
| Stddev | 8.8 | 481. | 31.8 |
| %RSD | .14590 | .64020 | .97643 |
| #1 | 6018.6 | 74756. | 3276.1 |
| #2 | 6006.2 | 75436. | 3231.1 |

Sample Name: sd 42159-A-30-A@5 Acquired: 5/18/2013 16:32:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **12.598** | **.00636** | **.00798** | **.04903** | **.00045** | **.00000** | **6.0722** | **.00037** |
| Stddev | .00014 | .001 | .00118 | .00035 | .00001 | .00009 | .00003 | .0255 | .00001 |
| %RSD | 70.764 | .01104 | 18.637 | 4.3306 | .02294 | 18.828 | 700.87 | .41911 | 2.5501 |
| #1 | -.00029 | 12.597 | .00719 | .00774 | .04904 | .00039 | .00002 | 6.0902 | .00037 |
| #2 | -.00010 | 12.599 | .00552 | .00823 | .04902 | .00051 | -.00002 | 6.0542 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00872** | **.01434** | **.03365** | **25.064** | **1.8928** | **.02170** | **5.1765** | **1.2355** | **.00018** |
| Stddev | .00018 | .00028 | .00049 | .130 | .0163 | .00120 | .0020 | .0021 | .00012 |
| %RSD | 2.0277 | 1.9391 | 1.4537 | .51868 | .86257 | 5.5157 | .03823 | .16957 | 66.085 |
| #1 | .00860 | .01453 | .03399 | 25.156 | 1.8813 | .02085 | 5.1751 | 1.2340 | .00010 |
| #2 | .00885 | .01414 | .03330 | 24.972 | 1.9043 | .02254 | 5.1779 | 1.2369 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14852** | **.02098** | **.67696** | **.00705** | **.03463** | **.00044** | **-.00306** | **.43560** | **.00151** |
| Stddev | .00615 | .00048 | .00051 | .00034 | .00148 | .00177 | .00069 | .02477 | .00036 |
| %RSD | 4.1403 | 2.2892 | .07500 | 4.7550 | 4.2676 | 405.50 | 22.574 | 5.6867 | 23.780 |
| #1 | .14417 | .02132 | .67660 | .00682 | .03567 | -.00082 | -.00355 | .45311 | .00126 |
| #2 | .15287 | .02064 | .67732 | .00729 | .03358 | .00169 | -.00257 | .41808 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01855** | **.00906** | **.05563** | **-.00171** | **.00596** | **.02096** | **.06185** | **.00594** |
| Stddev | .00024 | .00222 | .00136 | .00058 | .04744 | .00015 | .00134 | .00384 |
| %RSD | 1.2947 | 24.443 | 2.4366 | 34.131 | 795.65 | .73565 | 2.1651 | 64.673 |
| #1 | .01872 | .00750 | .05659 | -.00130 | .03951 | .02085 | .06280 | .00322 |
| #2 | .01838 | .01063 | .05467 | -.00212 | -.02758 | .02107 | .06090 | .00865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5638.4** | **71170.** | **3001.0** |
| Stddev | 32.3 | 256. | 3.8 |
| %RSD | .57258 | .35971 | .12541 |
| #1 | 5661.2 | 71351. | 2998.4 |
| #2 | 5615.5 | 70989. | 3003.7 |

Sample Name: 280-42159-A-30-B MS Acquired: 5/18/2013 16:34:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02677** | **60.659** | **.51007** | **.54689** | **1.1883** | **.02622** | **1.0075** | **38.342** | **.05154** |
| Stddev | .00075 | .003 | .00045 | .00416 | .0005 | .00011 | .0034 | .006 | .00017 |
| %RSD | 2.8102 | .00433 | .08764 | .76068 | .03902 | .40046 | .33314 | .01604 | .32364 |
| #1 | .02730 | 60.661 | .51039 | .54395 | 1.1887 | .02615 | 1.0052 | 38.347 | .05142 |
| #2 | .02624 | 60.657 | .50975 | .54983 | 1.1880 | .02630 | 1.0099 | 38.338 | .05166 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27187** | **.15798** | **.21592** | **75.675** | **41.732** | **.59263** | **41.881** | **3.7846** | **.48864** |
| Stddev | .00150 | .00066 | .00066 | .141 | .055 | .00064 | .183 | .0124 | .00290 |
| %RSD | .55299 | .41555 | .30381 | .18685 | .13171 | .10746 | .43750 | .32808 | .59357 |
| #1 | .27080 | .15752 | .21638 | 75.775 | 41.693 | .59218 | 42.011 | 3.7934 | .48659 |
| #2 | .27293 | .15845 | .21546 | 75.575 | 41.771 | .59308 | 41.752 | 3.7758 | .49069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.584** | **.30460** | **7.1908** | **.26596** | **.12244** | **.13901** | **1.0422** | **3.1319** | **1.1556** |
| Stddev | .161 | .00106 | .0371 | .00002 | .00144 | .00224 | .0052 | .0408 | .0052 |
| %RSD | .60667 | .34922 | .51606 | .00606 | 1.1751 | 1.6088 | .49861 | 1.3031 | .45129 |
| #1 | 26.470 | .30385 | 7.1646 | .26595 | .12346 | .13742 | 1.0385 | 3.1031 | 1.1519 |
| #2 | 26.698 | .30535 | 7.2171 | .26597 | .12143 | .14059 | 1.0459 | 3.1608 | 1.1593 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.55410** | **.50144** | **.76080** | **.98625** | **.96085** | **.34645** | **.41466** | **.25499** |
| Stddev | .00033 | .00194 | .00133 | .00608 | .03580 | .00235 | .00318 | .00290 |
| %RSD | .05894 | .38622 | .17497 | .61605 | 3.7259 | .67905 | .76741 | 1.1357 |
| #1 | .55387 | .50281 | .75986 | .98195 | .98617 | .34812 | .41691 | .25704 |
| #2 | .55433 | .50007 | .76174 | .99054 | .93554 | .34479 | .41241 | .25294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5714.9** | **71961.** | **3036.4** |
| Stddev | 3.6 | 332. | 4.1 |
| %RSD | .06233 | .46132 | .13411 |
| #1 | 5717.5 | 71726. | 3039.2 |
| #2 | 5712.4 | 72195. | 3033.5 |

Sample Name: 280-42159-A-30-C MSD Acquired: 5/18/2013 16:36:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04912** | **100.04** | **.92210** | **.96833** | **2.1216** | **.04683** | **1.8471** | **84.312** | **.09393** |
| Stddev | .00036 | .03 | .00555 | .00203 | .0037 | .00022 | .0082 | .123 | .00035 |
| %RSD | .74121 | .03196 | .60242 | .20932 | .17370 | .47897 | .44254 | .14587 | .37787 |
| #1 | .04938 | 100.02 | .91818 | .96690 | 2.1189 | .04667 | 1.8413 | 84.225 | .09368 |
| #2 | .04886 | 100.06 | .92603 | .96977 | 2.1242 | .04698 | 1.8528 | 84.399 | .09418 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49042** | **.28093** | **.40621** | **126.80** | **71.324** | **1.0641** | **76.255** | **5.5745** | **.88718** |
| Stddev | .00105 | .00081 | .00034 | .11 | .155 | .0034 | .063 | .1135 | .00023 |
| %RSD | .21486 | .28751 | .08326 | .08511 | .21786 | .31896 | .08220 | 2.0352 | .02573 |
| #1 | .48967 | .28036 | .40644 | 126.73 | 71.214 | 1.0617 | 76.300 | 5.6548 | .88702 |
| #2 | .49116 | .28150 | .40597 | 126.88 | 71.434 | 1.0665 | 76.211 | 5.4943 | .88734 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.680** | **.54838** | **12.693** | **.47655** | **.22799** | **.24154** | **1.8304** | **4.9823** | **1.7487** |
| Stddev | .305 | .00048 | .026 | .00393 | .00378 | .00073 | .0058 | .0599 | .0003 |
| %RSD | .64029 | .08701 | .20414 | .82394 | 1.6581 | .30039 | .31681 | 1.2023 | .01714 |
| #1 | 47.464 | .54804 | 12.674 | .47378 | .22532 | .24206 | 1.8345 | 4.9400 | 1.7489 |
| #2 | 47.896 | .54872 | 12.711 | .47933 | .23066 | .24103 | 1.8263 | 5.0247 | 1.7485 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0173** | **.92209** | **1.3673** | **1.7818** | **1.8046** | **.62324** | **.73482** | **.45921** |
| Stddev | .0025 | .00012 | .0024 | .0077 | .0023 | .00154 | .00001 | .00332 |
| %RSD | .24384 | .01273 | .17666 | .43071 | .12500 | .24669 | .00142 | .72398 |
| #1 | 1.0156 | .92201 | 1.3656 | 1.7764 | 1.8030 | .62433 | .73483 | .45686 |
| #2 | 1.0191 | .92217 | 1.3690 | 1.7872 | 1.8062 | .62215 | .73481 | .46156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5733.4** | **72243.** | **3126.7** |
| Stddev | 5.1 | 252. | 1.6 |
| %RSD | .08962 | .34836 | .05082 |
| #1 | 5737.1 | 72065. | 3127.8 |
| #2 | 5729.8 | 72421. | 3125.5 |

Sample Name: pds 280-42159-A-30-A  Acquired: 5/18/2013 16:38:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04896** | **58.578** | **.21045** | **.12444** | **.31702** | **.04760** | **.00166** | **45.574** | **.04846** |
| Stddev | .00003 | .111 | .00270 | .00128 | .00032 | .00020 | .00148 | .106 | .00031 |
| %RSD | .06589 | .19001 | 1.2839 | 1.0315 | .09974 | .42794 | 88.911 | .23287 | .64607 |
| #1 | .04898 | 58.657 | .20854 | .12535 | .31724 | .04746 | .00062 | 45.649 | .04868 |
| #2 | .04894 | 58.499 | .21236 | .12353 | .31679 | .04774 | .00271 | 45.498 | .04824 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08632** | **.11219** | **.20441** | **112.71** | **28.065** | **.20305** | **42.284** | **5.5535** | **.04888** |
| Stddev | .00015 | .00006 | .00052 | .57 | .033 | .00029 | .089 | .0227 | .00023 |
| %RSD | .17065 | .04977 | .25569 | .50766 | .11815 | .14524 | .20949 | .40932 | .46098 |
| #1 | .08643 | .11223 | .20478 | 112.31 | 28.042 | .20326 | 42.347 | 5.5374 | .04872 |
| #2 | .08622 | .11215 | .20404 | 113.12 | 28.088 | .20284 | 42.222 | 5.5696 | .04904 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.485** | **.14054** | **5.0493** | **.12254** | **.17456** | **.09464** | **.19512** | **6.6384** | **.09837** |
| Stddev | .141 | .00083 | .0074 | .00153 | .00363 | .00334 | .00055 | .0304 | .00099 |
| %RSD | .68964 | .59278 | .14603 | 1.2512 | 2.0779 | 3.5323 | .27939 | .45849 | 1.0038 |
| #1 | 20.585 | .14113 | 5.0545 | .12363 | .17713 | .09227 | .19473 | 6.6599 | .09907 |
| #2 | 20.386 | .13995 | 5.0441 | .12146 | .17200 | .09700 | .19551 | 6.6169 | .09767 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13296** | **.22139** | **.30190** | **.18577** | **.44162** | **.14501** | **.44890** | **.06536** |
| Stddev | .00020 | .00303 | .00260 | .00079 | .04795 | .00039 | .00074 | .00076 |
| %RSD | .15416 | 1.3666 | .86131 | .42487 | 10.858 | .26897 | .16388 | 1.1660 |
| #1 | .13281 | .21925 | .30374 | .18521 | .47552 | .14529 | .44942 | .06482 |
| #2 | .13310 | .22353 | .30006 | .18633 | .40771 | .14474 | .44838 | .06590 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5849.2** | **73537.** | **3165.5** |
| Stddev | 2.6 | 185. | 6.6 |
| %RSD | .04409 | .25186 | .20998 |
| #1 | 5851.0 | 73406. | 3160.8 |
| #2 | 5847.3 | 73668. | 3170.2 |

Sample Name: 280-42159-A-31-A  Acquired: 5/18/2013 16:41:22  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00057** | **61.190** | **.04035** | **.03557** | **.23719** | **.00261** | **-.00212** | W **569.77** | **.00136** |
| Stddev | .00073 | .163 | .00020 | .00001 | .00070 | .00013 | .00070 | 3.73 | .00014 |
| %RSD | 128.50 | .26686 | .48348 | .02209 | .29350 | 5.0392 | 33.009 | .65391 | 10.045 |
| #1 | -.00109 | 61.075 | .04021 | .03557 | .23768 | .00252 | -.00261 | 567.13 | .00145 |
| #2 | -.00005 | 61.306 | .04049 | .03556 | .23670 | .00270 | -.00162 | 572.40 | .00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04620** | **.07837** | **.35999** | **120.89** | **8.9015** | **.12134** | **37.045** | **3.7350** | **.00280** |
| Stddev | .00032 | .00048 | .00118 | .30 | .0176 | .00104 | .044 | .0053 | .00045 |
| %RSD | .68461 | .61377 | .32751 | .24666 | .19722 | .86116 | .11758 | .14284 | 16.263 |
| #1 | .04597 | .07803 | .36083 | 121.10 | 8.8891 | .12061 | 37.014 | 3.7312 | .00312 |
| #2 | .04642 | .07871 | .35916 | 120.68 | 8.9139 | .12208 | 37.075 | 3.7388 | .00247 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0199** | **.10677** | **3.4369** | **.81374** | **2.1255** | **.00219** | **-.00114** | **1.4995** | **.00485** |
| Stddev | .0019 | .00023 | .0079 | .00352 | .0031 | .00076 | .00247 | .0293 | .00036 |
| %RSD | .18311 | .21520 | .22877 | .43211 | .14611 | 34.811 | 217.15 | 1.9564 | 7.3518 |
| #1 | 1.0212 | .10693 | 3.4313 | .81125 | 2.1233 | .00165 | .00061 | 1.5202 | .00460 |
| #2 | 1.0186 | .10660 | 3.4425 | .81623 | 2.1277 | .00273 | -.00289 | 1.4787 | .00510 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65154** | **.04493** | **.31869** | **-.00280** | F **-.10751** | **.11092** | **.44008** | **.02788** |
| Stddev | .00254 | .00176 | .00064 | .00009 | .00065 | .00085 | .00104 | .00123 |
| %RSD | .38983 | 3.9244 | .20089 | 3.0601 | .60585 | .76303 | .23642 | 4.4256 |
| #1 | .64974 | .04368 | .31824 | -.00286 | -.10797 | .11151 | .44082 | .02701 |
| #2 | .65333 | .04617 | .31914 | -.00274 | -.10705 | .11032 | .43934 | .02875 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5603.6** | **71443.** | **3123.1** |
| Stddev | 14.5 | 98. | .8 |
| %RSD | .25811 | .13786 | .02590 |
| #1 | 5593.4 | 71512. | 3122.5 |
| #2 | 5613.9 | 71373. | 3123.7 |

Sample Name: 280-42159-A-32-A  Acquired: 5/18/2013 16:44:20  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **60.084** | **.02957** | **.02364** | **.26431** | **.00279** | **.00047** | **43.373** | **.00065** |
| Stddev | .00033 | .160 | .00069 | .00027 | .00079 | .00005 | .00223 | .010 | .00014 |
| %RSD | 749.53 | .26695 | 2.3215 | 1.1229 | .30053 | 1.7828 | 471.19 | .02276 | 21.262 |
| #1 | .00019 | 59.971 | .02908 | .02345 | .26374 | .00283 | .00205 | 43.380 | .00055 |
| #2 | -.00028 | 60.198 | .03006 | .02383 | .26487 | .00276 | -.00110 | 43.366 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04268** | **.06636** | **.17067** | **127.58** | **7.8874** | **.11614** | **27.138** | **3.4180** | **.00042** |
| Stddev | .00040 | .00040 | .00042 | .38 | .0686 | .00038 | .070 | .0053 | .00030 |
| %RSD | .93316 | .60671 | .24710 | .29589 | .86934 | .33080 | .25633 | .15445 | 72.072 |
| #1 | .04240 | .06664 | .17037 | 127.31 | 7.9359 | .11587 | 27.089 | 3.4142 | .00063 |
| #2 | .04296 | .06607 | .17096 | 127.84 | 7.8389 | .11641 | 27.187 | 3.4217 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.65990** | **.09630** | **3.2986** | **.02825** | **.24268** | **-.00342** | **.00251** | **1.7881** | **.00476** |
| Stddev | .00942 | .00040 | .0019 | .00105 | .00230 | .00106 | .00191 | .0365 | .00079 |
| %RSD | 1.4268 | .41239 | .05839 | 3.7118 | .94868 | 30.965 | 76.117 | 2.0387 | 16.659 |
| #1 | .66656 | .09602 | 3.2999 | .02899 | .24431 | -.00267 | .00386 | 1.7623 | .00532 |
| #2 | .65325 | .09658 | 3.2972 | .02751 | .24105 | -.00417 | .00116 | 1.8139 | .00420 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09985** | **.04071** | **.27296** | **-.00290** | W **-.05682** | **.10046** | **.29125** | **.02028** |
| Stddev | .00014 | .00082 | .00288 | .00030 | .01141 | .00003 | .00056 | .00118 |
| %RSD | .13752 | 2.0225 | 1.0544 | 10.308 | 20.072 | .03293 | .19167 | 5.8392 |
| #1 | .09995 | .04013 | .27500 | -.00269 | -.06489 | .10043 | .29165 | .02112 |
| #2 | .09975 | .04130 | .27093 | -.00311 | -.04876 | .10048 | .29086 | .01944 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5946.9** | **74928.** | **3195.4** |
| Stddev | 10.3 | 277. | 3.9 |
| %RSD | .17392 | .36955 | .12100 |
| #1 | 5939.6 | 75124. | 3192.7 |
| #2 | 5954.2 | 74732. | 3198.2 |

Sample Name: 280-42159-A-33-A  Acquired: 5/18/2013 16:46:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **36.197** | **.02308** | **.05215** | **.27250** | **.00150** | **-.00430** | W **1388.0** | **.00064** |
| Stddev | .00011 | .121 | .00342 | .00062 | .00221 | .00010 | .00167 | 10.2 | .00015 |
| %RSD | 43.812 | .33472 | 14.816 | 1.1796 | .80995 | 6.3943 | 38.892 | .73684 | 23.986 |
| #1 | -.00034 | 36.282 | .02549 | .05258 | .27406 | .00157 | -.00548 | 1395.3 | .00075 |
| #2 | -.00018 | 36.111 | .02066 | .05171 | .27094 | .00143 | -.00312 | 1380.8 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02743** | **.06305** | **.25096** | **70.565** | **9.0456** | **.09083** | **49.531** | **2.1493** | **.00292** |
| Stddev | .00019 | .00028 | .00290 | .184 | .0107 | .00089 | .428 | .0156 | .00032 |
| %RSD | .68063 | .45194 | 1.1569 | .26057 | .11805 | .98467 | .86501 | .72708 | 11.086 |
| #1 | .02729 | .06325 | .25302 | 70.695 | 9.0532 | .09146 | 49.834 | 2.1603 | .00315 |
| #2 | .02756 | .06285 | .24891 | 70.435 | 9.0381 | .09019 | 49.228 | 2.1382 | .00269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0787** | **.09629** | **2.5820** | **.22621** | **14.089** | **.00599** | **.00299** | **1.6970** | **.00333** |
| Stddev | .0058 | .00062 | .0036 | .00272 | .065 | .00335 | .00276 | .0080 | .00005 |
| %RSD | .18767 | .64325 | .13990 | 1.2033 | .46408 | 55.972 | 92.247 | .47089 | 1.5708 |
| #1 | 3.0828 | .09673 | 2.5846 | .22429 | 14.043 | .00362 | .00104 | 1.7027 | .00329 |
| #2 | 3.0746 | .09585 | 2.5795 | .22813 | 14.135 | .00837 | .00495 | 1.6914 | .00336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1445** | **.02670** | **.25858** | **-.00066** | F **-.13463** | **.27474** | **.30003** | **.02945** |
| Stddev | .0107 | .00127 | .00239 | .00207 | .00777 | .00219 | .00083 | .00125 |
| %RSD | .49938 | 4.7741 | .92401 | 312.46 | 5.7728 | .79596 | .27801 | 4.2462 |
| #1 | 2.1520 | .02760 | .26027 | -.00212 | -.14012 | .27629 | .30062 | .02856 |
| #2 | 2.1369 | .02580 | .25689 | .00080 | -.12913 | .27320 | .29944 | .03033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5289.4** | **66964.** | **3035.3** |
| Stddev | 9.7 | 262. | 6.9 |
| %RSD | .18319 | .39184 | .22782 |
| #1 | 5282.5 | 66778. | 3040.2 |
| #2 | 5296.2 | 67149. | 3030.4 |

Sample Name: 280-42159-A-34-A  Acquired: 5/18/2013 16:49:38  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **64.870** | **.02942** | **.02344** | **.20854** | **.00272** | **-.00147** | **27.093** | **.00100** |
| Stddev | .00039 | .518 | .00100 | .00095 | .00175 | .00001 | .00023 | .126 | .00024 |
| %RSD | 147.87 | .79784 | 3.4048 | 4.0683 | .83757 | .34877 | 15.494 | .46540 | 23.496 |
| #1 | .00001 | 64.504 | .03013 | .02412 | .20731 | .00271 | -.00131 | 27.004 | .00117 |
| #2 | -.00053 | 65.236 | .02872 | .02277 | .20978 | .00272 | -.00163 | 27.183 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04508** | **.07210** | **.17714** | **133.44** | **8.6443** | **.12571** | **25.963** | **5.4538** | **.00079** |
| Stddev | .00004 | .00017 | .00065 | .64 | .0667 | .00137 | .063 | .0473 | .00001 |
| %RSD | .09853 | .24140 | .36765 | .48219 | .77111 | 1.0914 | .24375 | .86721 | 1.3698 |
| #1 | .04511 | .07222 | .17760 | 132.99 | 8.5972 | .12474 | 26.008 | 5.4204 | .00078 |
| #2 | .04504 | .07198 | .17668 | 133.90 | 8.6915 | .12668 | 25.918 | 5.4873 | .00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98481** | **.10338** | **3.2677** | **.02976** | **.17983** | **-.00365** | **-.00225** | **2.3094** | **.00548** |
| Stddev | .01707 | .00024 | .0161 | .00033 | .00164 | .00161 | .00032 | .0401 | .00000 |
| %RSD | 1.7338 | .23576 | .49239 | 1.1091 | .91369 | 44.187 | 14.443 | 1.7381 | .08817 |
| #1 | .97274 | .10355 | 3.2791 | .02999 | .18099 | -.00478 | -.00248 | 2.3378 | .00548 |
| #2 | .99689 | .10321 | 3.2564 | .02953 | .17867 | -.00251 | -.00202 | 2.2810 | .00549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11082** | **.04254** | **.26969** | **-.00512** | **-.02324** | **.10796** | **.30910** | **.02650** |
| Stddev | .00038 | .00086 | .00527 | .00074 | .01932 | .00051 | .00174 | .00351 |
| %RSD | .34227 | 2.0186 | 1.9551 | 14.383 | 83.115 | .46945 | .56302 | 13.255 |
| #1 | .11055 | .04193 | .27342 | -.00460 | -.00958 | .10831 | .31033 | .02401 |
| #2 | .11109 | .04315 | .26596 | -.00564 | -.03690 | .10760 | .30787 | .02898 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5656.2** | **70467.** | **3019.8** |
| Stddev | 17.3 | 168. | 16.2 |
| %RSD | .30674 | .23801 | .53485 |
| #1 | 5643.9 | 70348. | 3031.2 |
| #2 | 5668.4 | 70586. | 3008.4 |

Sample Name: 280-42159-A-35-A  Acquired: 5/18/2013 16:52:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00062** | **55.289** | **.02761** | **.04843** | **.34572** | **.00224** | **-.00437** | W **1141.1** | **.00095** |
| Stddev | .00036 | 1.026 | .00024 | .00042 | .00542 | .00004 | .00211 | 14.1 | .00001 |
| %RSD | 57.313 | 1.8564 | .87477 | .87645 | 1.5670 | 1.6039 | 48.251 | 1.2314 | 1.4665 |
| #1 | -.00037 | 54.563 | .02744 | .04813 | .34189 | .00222 | -.00586 | 1131.2 | .00094 |
| #2 | -.00088 | 56.015 | .02778 | .04873 | .34955 | .00227 | -.00288 | 1151.1 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04187** | **.07814** | **.24835** | **107.64** | **10.963** | **.12357** | **48.659** | **3.6848** | **.00333** |
| Stddev | .00034 | .00051 | .00026 | 2.20 | .221 | .00200 | .078 | .0013 | .00014 |
| %RSD | .81216 | .64905 | .10274 | 2.0414 | 2.0195 | 1.6204 | .16033 | .03609 | 4.1120 |
| #1 | .04163 | .07778 | .24853 | 106.09 | 10.807 | .12498 | 48.714 | 3.6858 | .00323 |
| #2 | .04211 | .07850 | .24817 | 109.19 | 11.120 | .12215 | 48.603 | 3.6839 | .00343 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4481** | **.11431** | **3.3722** | **.38449** | **7.4159** | **.00280** | **.00562** | **2.2614** | **.00493** |
| Stddev | .0330 | .00055 | .0178 | .00366 | .0439 | .00226 | .00485 | .0412 | .00051 |
| %RSD | 2.2784 | .47875 | .52793 | .95151 | .59208 | 80.629 | 86.259 | 1.8202 | 10.324 |
| #1 | 1.4248 | .11393 | 3.3596 | .38190 | 7.3849 | .00439 | .00905 | 2.2323 | .00457 |
| #2 | 1.4715 | .11470 | 3.3848 | .38708 | 7.4470 | .00120 | .00219 | 2.2905 | .00529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4514** | **.03924** | **.30553** | **-.00053** | F **-.11993** | **.18987** | **.37596** | **.03856** |
| Stddev | .0269 | .00346 | .00069 | .00061 | .03089 | .00061 | .00035 | .00373 |
| %RSD | 1.8534 | 8.8084 | .22627 | 115.33 | 25.759 | .32363 | .09302 | 9.6672 |
| #1 | 1.4324 | .04169 | .30601 | -.00097 | -.14178 | .19031 | .37571 | .04120 |
| #2 | 1.4705 | .03680 | .30504 | -.00010 | -.09809 | .18944 | .37620 | .03593 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5250.0** | **66429.** | **2982.7** |
| Stddev | 4.2 | 137. | 45.4 |
| %RSD | .07969 | .20624 | 1.5234 |
| #1 | 5253.0 | 66332. | 3014.9 |
| #2 | 5247.1 | 66526. | 2950.6 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 16:55:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **50.060** | **-.00083** | **.00389** | **.00090** | **-.00011** | **1.0455** | **.01431** | **-.00082** | **.00171** | **.00002** | **.00119** | **49.445** |
| Stddev | .00003 | .715 | .00302 | .00037 | .00022 | .00013 | .0132 | .00120 | .00028 | .00019 | .00017 | .00035 | .887 |
| %RSD | 8.1709 | 1.4275 | 363.71 | 9.5954 | 24.028 | 110.69 | 1.2645 | 8.3637 | 33.607 | 11.057 | 1079.8 | 29.272 | 1.7930 |
| #1 | -.00037 | 49.555 | -.00297 | .00415 | .00105 | -.00020 | 1.0361 | .01516 | -.00063 | .00158 | -.00010 | .00144 | 48.818 |
| #2 | -.00042 | 50.565 | .00131 | .00362 | .00075 | -.00002 | 1.0548 | .01347 | -.00102 | .00185 | .00014 | .00095 | 50.072 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10312** | **.00096** | **.00583** | **-.00009** | **-.00178** | **257.92** | **.00115** | **.00651** | **.00162** | **5.2397** | **.00061** | **.00490** | **.03050** |
| Stddev | .05017 | .00003 | .00140 | .00007 | .00003 | 2.79 | .00033 | .00110 | .00044 | .0622 | .00111 | .00200 | .00680 |
| %RSD | 48.648 | 2.8687 | 24.024 | 73.150 | 1.7629 | 1.0817 | 28.880 | 16.861 | 27.092 | 1.1870 | 180.75 | 40.817 | 22.303 |
| #1 | .06765 | .00094 | .00484 | -.00005 | -.00180 | 255.95 | .00092 | .00728 | .00194 | 5.1957 | -.00017 | .00631 | .02569 |
| #2 | .13859 | .00098 | .00682 | -.00014 | -.00176 | 259.89 | .00139 | .00573 | .00131 | 5.2837 | .00140 | .00348 | .03531 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00136** | **.00055** | **5.1277** | **.00412** | **-.00222** | **10.320** | **.00001** | **.00341** | **-.03737** |
| Stddev | .00016 | .00012 | .0041 | .00038 | .00008 | .052 | .00016 | .00033 | .00188 |
| %RSD | 11.487 | 22.116 | .07952 | 9.2670 | 3.7313 | .50689 | 2820.6 | 9.8011 | 5.0421 |
| #1 | .00147 | .00047 | 5.1249 | .00439 | -.00228 | 10.283 | -.00011 | .00317 | -.03871 |
| #2 | .00125 | .00064 | 5.1306 | .00385 | -.00217 | 10.357 | .00012 | .00364 | -.03604 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5156.9** | **65535.** | **2802.5** |
| Stddev | 36.0 | 178. | 29.5 |
| %RSD | .69747 | .27104 | 1.0522 |
| #1 | 5182.4 | 65661. | 2823.4 |
| #2 | 5131.5 | 65410. | 2781.7 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 16:57:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51822** | **.52701** | **1.0242** | **.52261** | **.50443** | **.49724** | **.00156** | **5.0807** | **.51693** | **.51903** | **.51186** | **.51323** | **2.5573** |
| Stddev | .00067 | .00147 | .0007 | .00139 | .00063 | .00137 | .00087 | .0115 | .00098 | .00191 | .00155 | .00047 | .0020 |
| %RSD | .12972 | .27813 | .06709 | .26502 | .12470 | .27643 | 55.323 | .22596 | .18943 | .36868 | .30234 | .09091 | .07702 |
| #1 | .51774 | .52804 | 1.0237 | .52359 | .50487 | .49822 | .00218 | 5.0888 | .51762 | .52038 | .51296 | .51356 | 2.5587 |
| #2 | .51869 | .52597 | 1.0247 | .52163 | .50398 | .49627 | .00095 | 5.0726 | .51623 | .51768 | .51077 | .51290 | 2.5560 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.850** | **1.0646** | **20.524** | **.51097** | **.51202** | **5.2709** | **.51909** | **1.0348** | **1.0372** | **-.00020** | **1.0411** | **1.0363** | **5.0236** |
| Stddev | .153 | .0008 | .013 | .00058 | .00075 | .0109 | .00001 | .0010 | .0018 | .00045 | .0016 | .0006 | .0266 |
| %RSD | .28982 | .07619 | .06490 | .11270 | .14647 | .20587 | .00241 | .10061 | .17560 | 219.31 | .15659 | .05299 | .52943 |
| #1 | 52.958 | 1.0641 | 20.534 | .51057 | .51149 | 5.2786 | .51910 | 1.0341 | 1.0360 | .00011 | 1.0400 | 1.0367 | 5.0424 |
| #2 | 52.741 | 1.0652 | 20.515 | .51138 | .51255 | 5.2632 | .51908 | 1.0355 | 1.0385 | -.00052 | 1.0423 | 1.0359 | 5.0048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0229** | **.51066** | **.00122** | **.51146** | **1.0351** | **-.04086** | **.50839** | **.51355** | **.49542** |
| Stddev | .0014 | .00054 | .00426 | .00155 | .0018 | .01264 | .00034 | .00215 | .00617 |
| %RSD | .13824 | .10495 | 348.38 | .30322 | .17672 | 30.927 | .06625 | .41837 | 1.2464 |
| #1 | 1.0239 | .51028 | -.00179 | .51036 | 1.0338 | -.04980 | .50863 | .51203 | .49106 |
| #2 | 1.0219 | .51104 | .00424 | .51256 | 1.0364 | -.03193 | .50815 | .51507 | .49979 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5434.2** | **68681.** | **2884.1** |
| Stddev | 3.0 | 194. | 23.0 |
| %RSD | .05451 | .28182 | .79876 |
| #1 | 5436.3 | 68545. | 2867.8 |
| #2 | 5432.1 | 68818. | 2900.4 |

Sample Name: CCB Acquired: 5/18/2013 16:59:40 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00427** | **-.00022** | W **.00306** | W **.00100** | **.00007** | **-.00047** | **.00813** | **.00006** | **-.00011** | **-.00013** |
| Stddev | .00020 | .00527 | .00205 | .00016 | .00013 | .00000 | .00189 | .00565 | .00007 | .00025 | .00035 |
| %RSD | 60.267 | 123.38 | 926.65 | 5.3286 | 12.996 | .70727 | 398.81 | 69.558 | 126.63 | 225.96 | 275.45 |
| #1 | .00019 | .00055 | .00123 | .00318 | .00110 | .00007 | -.00181 | .01213 | .00011 | .00007 | .00012 |
| #2 | .00048 | .00800 | -.00167 | .00295 | .00091 | .00007 | .00086 | .00413 | .00001 | -.00029 | -.00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | .00058 | | | | | | |
| Low Limit | | | | -.00156 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00309** | **.09273** | **.00055** | **.00168** | **.00009** | **.00041** | **.04859** | **-.00041** | **.00160** | **.00211** |
| Stddev | .00056 | .00682 | .03235 | .00122 | .00083 | .00005 | .00024 | .01028 | .00012 | .00225 | .00003 |
| %RSD | 856.31 | 220.65 | 34.888 | 221.87 | 49.082 | 54.860 | 57.303 | 21.149 | 28.321 | 140.84 | 1.4034 |
| #1 | -.00033 | -.00173 | .11561 | .00141 | .00110 | .00012 | .00058 | .05586 | -.00050 | .00319 | .00213 |
| #2 | .00046 | .00791 | .06986 | -.00031 | .00227 | .00005 | .00025 | .04133 | -.00033 | .00001 | .00209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00139** | **.00205** | **.00141** | **.01502** | **.00052** | **.00019** | **-.00068** | **.00037** | **-.00005** | **-.03031** | **.00053** |
| Stddev | .00118 | .00156 | .00388 | .00619 | .00029 | .00004 | .00089 | .00045 | .00171 | .02288 | .00003 |
| %RSD | 84.568 | 76.027 | 274.39 | 41.185 | 55.291 | 18.073 | 130.46 | 119.65 | 3281.1 | 75.476 | 4.8342 |
| #1 | .00056 | .00315 | .00415 | .01940 | .00031 | .00022 | -.00005 | .00069 | .00116 | -.04648 | .00054 |
| #2 | .00223 | .00095 | -.00133 | .01065 | .00072 | .00017 | -.00131 | .00006 | -.00126 | -.01413 | .00051 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00292** | **.00097** |
| Stddev | .00001 | .00065 |
| %RSD | .51069 | 66.292 |
| #1 | .00291 | .00052 |
| #2 | .00293 | .00143 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5539.1** | **69254.** | **2890.1** |
| Stddev | 2.5 | 114. | 7.5 |
| %RSD | .04438 | .16485 | .26026 |
| #1 | 5540.8 | 69173. | 2895.4 |
| #2 | 5537.4 | 69335. | 2884.8 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 17:02:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01004** | **.11586** | **.01467** | **.10520** | **.01097** | **.00095** | **.10437** | F **.29263** | **.00546** | **.01064** | **.01029** |
| Stddev | .00026 | .00027 | .00283 | .00112 | .00030 | .00001 | .00549 | .00024 | .00009 | .00012 | .00027 |
| %RSD | 2.6184 | .23049 | 19.263 | 1.0662 | 2.6928 | .71488 | 5.2595 | .08153 | 1.6029 | 1.0887 | 2.6259 |
| #1 | .01023 | .11605 | .01267 | .10440 | .01118 | .00095 | .10049 | .29280 | .00553 | .01055 | .01049 |
| #2 | .00986 | .11568 | .01667 | .10599 | .01077 | .00094 | .10825 | .29246 | .00540 | .01072 | .01010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .20000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01553** | W **.12166** | **3.4204** | **.01144** | **.22102** | **.01117** | **.02047** | **1.1327** | **.04201** | **3.0075** | **.00992** |
| Stddev | .00097 | .00079 | .0375 | .00016 | .00466 | .00029 | .00006 | .0200 | .00051 | .0077 | .00253 |
| %RSD | 6.2667 | .65270 | 1.0950 | 1.3750 | 2.1081 | 2.6286 | .30890 | 1.7624 | 1.2168 | .25552 | 25.542 |
| #1 | .01622 | .12222 | 3.4469 | .01155 | .22431 | .01137 | .02043 | 1.1468 | .04165 | 3.0021 | .01171 |
| #2 | .01484 | .12110 | 3.3939 | .01132 | .21772 | .01096 | .02052 | 1.1186 | .04237 | 3.0129 | .00813 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | | | | |
| Range | | 20.000% | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00322** | **.01066** | **.01616** | **.55130** | **.10311** | **.01083** | **.01520** | **.01009** | **.01474** | F **.03131** | **.01065** |
| Stddev | .00158 | .00014 | .00185 | .00177 | .00115 | .00013 | .00018 | .00046 | .00007 | .03395 | .00077 |
| %RSD | 49.069 | 1.2978 | 11.461 | .32160 | 1.1116 | 1.2098 | 1.1560 | 4.6013 | .47704 | 108.43 | 7.2201 |
| #1 | .00433 | .01056 | .01746 | .55256 | .10230 | .01093 | .01508 | .01041 | .01479 | .05532 | .01120 |
| #2 | .00210 | .01076 | .01485 | .55005 | .10392 | .01074 | .01533 | .00976 | .01469 | .00730 | .01011 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02377** | W **.01892** |
| Stddev | .00006 | .00024 |
| %RSD | .23884 | 1.2543 |
| #1 | .02381 | .01875 |
| #2 | .02373 | .01909 |
| Check ? | Chk Pass | Chk Warn |
| Value | | .01500 |
| Range | | 20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5572.5** | **69565.** | **2869.7** |
| Stddev | 6.0 | 1084. | 10.4 |
| %RSD | .10838 | 1.5578 | .36283 |
| #1 | 5576.8 | 68799. | 2877.1 |
| #2 | 5568.2 | 70332. | 2862.3 |

Sample Name: 280-42159-A-36-A  Acquired: 5/18/2013 17:04:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **53.439** | **.03428** | **.05144** | **.20386** | **.00229** | **-.00376** | W **1123.1** | **.00128** |
| Stddev | .00024 | .680 | .00043 | .00030 | .00292 | .00001 | .00216 | 3.7 | .00018 |
| %RSD | 412.30 | 1.2733 | 1.2417 | .57820 | 1.4328 | .60982 | 57.580 | .32894 | 14.415 |
| #1 | .00011 | 53.920 | .03398 | .05123 | .20593 | .00230 | -.00223 | 1120.5 | .00141 |
| #2 | -.00023 | 52.958 | .03458 | .05165 | .20180 | .00228 | -.00529 | 1125.7 | .00115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03917** | **.08205** | **.33262** | **111.68** | **10.639** | **.12844** | **59.151** | **3.7148** | **.00437** |
| Stddev | .00019 | .00060 | .00062 | .70 | .127 | .00136 | .049 | .0036 | .00005 |
| %RSD | .48308 | .73065 | .18676 | .62724 | 1.1969 | 1.0609 | .08230 | .09719 | 1.1680 |
| #1 | .03931 | .08248 | .33306 | 112.18 | 10.549 | .12940 | 59.185 | 3.7174 | .00440 |
| #2 | .03904 | .08163 | .33218 | 111.19 | 10.729 | .12747 | 59.117 | 3.7123 | .00433 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3386** | **.09951** | **3.0936** | **1.1538** | **2.7536** | **.00529** | **.00163** | **2.4904** | **.00477** |
| Stddev | .0023 | .00074 | .0097 | .0028 | .0113 | .00230 | .00547 | .0130 | .00090 |
| %RSD | .17346 | .73950 | .31286 | .24415 | .40839 | 43.546 | 335.81 | .52252 | 18.956 |
| #1 | 1.3402 | .10003 | 3.1004 | 1.1558 | 2.7616 | .00366 | -.00224 | 2.4996 | .00541 |
| #2 | 1.3369 | .09899 | 3.0867 | 1.1518 | 2.7457 | .00692 | .00550 | 2.4812 | .00413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3893** | **.03524** | **.32426** | **-.00071** | F **-.10093** | **.11193** | **.47445** | **.04198** |
| Stddev | .0101 | .00089 | .00062 | .00038 | .01652 | .00030 | .00150 | .00059 |
| %RSD | .72431 | 2.5299 | .19031 | 54.430 | 16.364 | .26501 | .31625 | 1.4149 |
| #1 | 1.3965 | .03587 | .32382 | -.00098 | -.11261 | .11172 | .47339 | .04240 |
| #2 | 1.3822 | .03461 | .32469 | -.00043 | -.08925 | .11214 | .47551 | .04156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5481.0** | **70169.** | **3114.9** |
| Stddev | 10.3 | 149. | 32.4 |
| %RSD | .18793 | .21171 | 1.0394 |
| #1 | 5488.3 | 70064. | 3092.0 |
| #2 | 5473.8 | 70274. | 3137.8 |

Sample Name: 280-42159-A-37-A  Acquired: 5/18/2013 17:07:35  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **55.815** | **.03227** | **.03994** | **.19061** | **.00232** | **.00028** | W **747.58** | **.00131** |
| Stddev | .00043 | .418 | .00000 | .00018 | .00186 | .00007 | .00233 | 2.73 | .00007 |
| %RSD | 94.617 | .74928 | .00488 | .46157 | .97562 | 2.9447 | 826.23 | .36516 | 5.6937 |
| #1 | -.00075 | 56.111 | .03227 | .03981 | .19192 | .00237 | -.00137 | 749.51 | .00126 |
| #2 | -.00015 | 55.520 | .03227 | .04007 | .18929 | .00228 | .00193 | 745.65 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04141** | **.08342** | **.34403** | **115.12** | **9.6776** | **.12592** | **43.523** | **3.6778** | **.00432** |
| Stddev | .00064 | .00078 | .00081 | .22 | .0522 | .00193 | .137 | .0154 | .00006 |
| %RSD | 1.5373 | .93644 | .23558 | .18931 | .53883 | 1.5345 | .31512 | .41940 | 1.4262 |
| #1 | .04096 | .08287 | .34346 | 115.28 | 9.6407 | .12455 | 43.426 | 3.6669 | .00427 |
| #2 | .04186 | .08397 | .34461 | 114.97 | 9.7145 | .12729 | 43.620 | 3.6887 | .00436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0613** | **.10574** | **3.8032** | **1.1749** | **2.3949** | **.00146** | **.00475** | **2.0198** | **.00419** |
| Stddev | .0029 | .00096 | .0457 | .0159 | .0345 | .00181 | .00354 | .0288 | .00010 |
| %RSD | .27464 | .91120 | 1.2005 | 1.3527 | 1.4393 | 124.01 | 74.386 | 1.4248 | 2.3664 |
| #1 | 1.0634 | .10506 | 3.7709 | 1.1637 | 2.3705 | .00275 | .00225 | 2.0401 | .00412 |
| #2 | 1.0592 | .10643 | 3.8355 | 1.1862 | 2.4192 | .00018 | .00726 | 1.9994 | .00426 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89181** | **.04212** | **.26264** | **-.00247** | W **-.08293** | **.11043** | **.47655** | **.03532** |
| Stddev | .00460 | .00127 | .00366 | .00156 | .04757 | .00117 | .00169 | .00004 |
| %RSD | .51528 | 3.0059 | 1.3929 | 63.157 | 57.356 | 1.0580 | .35446 | .12639 |
| #1 | .89506 | .04302 | .26005 | -.00357 | -.11657 | .10960 | .47536 | .03535 |
| #2 | .88856 | .04123 | .26523 | -.00137 | -.04930 | .11125 | .47775 | .03529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5580.7** | **70161.** | **3157.6** |
| Stddev | 30.1 | 128. | 11.7 |
| %RSD | .53882 | .18283 | .36962 |
| #1 | 5601.9 | 70252. | 3149.3 |
| #2 | 5559.4 | 70070. | 3165.8 |

Sample Name: 280-42159-A-38-A  Acquired: 5/18/2013 17:10:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00098** | **65.512** | **.03374** | **.03264** | **.25118** | **.00265** | **.00012** | **492.09** | **.00153** |
| Stddev | .00044 | .148 | .00344 | .00056 | .00007 | .00010 | .00053 | .76 | .00002 |
| %RSD | 44.715 | .22558 | 10.180 | 1.7221 | .02693 | 3.8216 | 453.01 | .15478 | 1.3982 |
| #1 | -.00067 | 65.616 | .03131 | .03224 | .25123 | .00258 | -.00026 | 492.63 | .00155 |
| #2 | -.00129 | 65.407 | .03617 | .03304 | .25114 | .00272 | .00049 | 491.55 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04057** | **.07875** | **.60688** | **113.07** | **8.5860** | **.11178** | **34.109** | **3.4557** | **.00235** |
| Stddev | .00010 | .00048 | .00023 | .35 | .0305 | .00148 | .010 | .0006 | .00007 |
| %RSD | .25480 | .61170 | .03709 | .30983 | .35537 | 1.3215 | .02985 | .01732 | 2.9172 |
| #1 | .04050 | .07841 | .60704 | 112.82 | 8.6076 | .11282 | 34.116 | 3.4553 | .00230 |
| #2 | .04065 | .07909 | .60672 | 113.32 | 8.5645 | .11074 | 34.102 | 3.4562 | .00240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0721** | **.09589** | **3.6428** | **.40943** | **2.1491** | **.00532** | **.00630** | **2.0121** | **.00497** |
| Stddev | .0037 | .00055 | .0221 | .00515 | .0122 | .00344 | .00523 | .0439 | .00101 |
| %RSD | .34816 | .57483 | .60580 | 1.2589 | .56767 | 64.770 | 82.958 | 2.1807 | 20.278 |
| #1 | 1.0747 | .09550 | 3.6272 | .40579 | 2.1404 | .00288 | .00260 | 1.9810 | .00568 |
| #2 | 1.0695 | .09628 | 3.6584 | .41308 | 2.1577 | .00775 | .01000 | 2.0431 | .00425 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59586** | **.04612** | **.49375** | **-.00260** | W **-.08926** | **.11640** | **.41132** | **.01780** |
| Stddev | .00067 | .00164 | .00830 | .00208 | .00330 | .00046 | .00209 | .00083 |
| %RSD | .11230 | 3.5608 | 1.6816 | 79.841 | 3.7011 | .39572 | .50691 | 4.6702 |
| #1 | .59633 | .04728 | .48788 | -.00113 | -.09159 | .11672 | .40985 | .01721 |
| #2 | .59539 | .04496 | .49962 | -.00407 | -.08692 | .11607 | .41280 | .01838 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5468.9** | **68991.** | **3038.0** |
| Stddev | 1.2 | 68. | 9.7 |
| %RSD | .02259 | .09788 | .32074 |
| #1 | 5468.1 | 69039. | 3031.1 |
| #2 | 5469.8 | 68943. | 3044.9 |

Sample Name: 280-42159-A-39-A  Acquired: 5/18/2013 17:12:53  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **66.355** | **.02662** | **.03340** | **.21508** | **.00276** | **-.00161** | **388.65** | **.00063** |
| Stddev | .00077 | .101 | .00099 | .00076 | .00053 | .00008 | .00113 | .09 | .00005 |
| %RSD | 203.53 | .15215 | 3.7111 | 2.2857 | .24810 | 3.0053 | 70.215 | .02288 | 8.3736 |
| #1 | .00017 | 66.284 | .02592 | .03286 | .21546 | .00282 | -.00081 | 388.59 | .00067 |
| #2 | -.00092 | 66.427 | .02732 | .03394 | .21470 | .00270 | -.00241 | 388.71 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04896** | **.08298** | **.23507** | **133.42** | **10.935** | **.13639** | **42.089** | **4.6409** | **.00130** |
| Stddev | .00002 | .00030 | .00076 | .16 | .023 | .00233 | .112 | .0254 | .00014 |
| %RSD | .04932 | .36620 | .32425 | .11836 | .21204 | 1.7063 | .26678 | .54825 | 10.848 |
| #1 | .04898 | .08276 | .23561 | 133.31 | 10.951 | .13804 | 42.169 | 4.6229 | .00140 |
| #2 | .04895 | .08319 | .23453 | 133.54 | 10.918 | .13475 | 42.010 | 4.6588 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5557** | **.11523** | **3.9395** | **.06084** | **2.0156** | **-.00081** | **.00101** | **2.6330** | **.00474** |
| Stddev | .0190 | .00048 | .0014 | .00096 | .0065 | .00121 | .00078 | .0942 | .00065 |
| %RSD | 1.2234 | .41333 | .03520 | 1.5784 | .32319 | 148.76 | 77.756 | 3.5766 | 13.686 |
| #1 | 1.5422 | .11490 | 3.9385 | .06151 | 2.0110 | -.00167 | .00045 | 2.6996 | .00428 |
| #2 | 1.5691 | .11557 | 3.9404 | .06016 | 2.0202 | .00004 | .00156 | 2.5664 | .00520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46873** | **.04539** | **.32689** | **-.00303** | W **-.08008** | **.12151** | **.33387** | **.04482** |
| Stddev | .00048 | .00285 | .00255 | .00149 | .00052 | .00053 | .00073 | .00298 |
| %RSD | .10294 | 6.2747 | .78155 | 49.075 | .65330 | .43556 | .21994 | 6.6501 |
| #1 | .46907 | .04338 | .32509 | -.00198 | -.07971 | .12113 | .33439 | .04271 |
| #2 | .46839 | .04741 | .32870 | -.00408 | -.08045 | .12188 | .33335 | .04693 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5642.1** | **71175.** | **3101.4** |
| Stddev | 11.0 | 53. | 5.7 |
| %RSD | .19508 | .07386 | .18414 |
| #1 | 5634.3 | 71213. | 3097.4 |
| #2 | 5649.9 | 71138. | 3105.5 |

Sample Name: 280-42159-A-40-A  Acquired: 5/18/2013 17:15:18  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **69.190** | **.03381** | **.02305** | **.22820** | **.00276** | **.00155** | **88.309** | **.00153** |
| Stddev | .00063 | .345 | .00037 | .00027 | .00156 | .00012 | .00134 | .281 | .00025 |
| %RSD | 94.338 | .49812 | 1.0826 | 1.1841 | .68527 | 4.5303 | 86.445 | .31847 | 16.449 |
| #1 | .00022 | 68.946 | .03407 | .02286 | .22709 | .00285 | .00249 | 88.110 | .00171 |
| #2 | .00111 | 69.434 | .03355 | .02324 | .22931 | .00267 | .00060 | 88.508 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04203** | **.07238** | **.20300** | **117.35** | **7.3613** | **.09875** | **21.856** | **3.4770** | **.00137** |
| Stddev | .00036 | .00033 | .00017 | .25 | .0074 | .00178 | .037 | .0075 | .00037 |
| %RSD | .84568 | .45449 | .08323 | .21223 | .10001 | 1.8006 | .17048 | .21693 | 26.888 |
| #1 | .04178 | .07215 | .20288 | 117.17 | 7.3561 | .10000 | 21.829 | 3.4717 | .00163 |
| #2 | .04228 | .07261 | .20312 | 117.53 | 7.3665 | .09749 | 21.882 | 3.4824 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.80184** | **.09041** | **3.6083** | **.12053** | **.81166** | **-.00290** | **-.00151** | **1.8319** | **.00625** |
| Stddev | .00092 | .00039 | .0108 | .00130 | .00334 | .00064 | .00380 | .0333 | .00030 |
| %RSD | .11499 | .42798 | .30003 | 1.0748 | .41191 | 22.096 | 251.16 | 1.8202 | 4.7982 |
| #1 | .80119 | .09014 | 3.6006 | .11962 | .80929 | -.00335 | -.00420 | 1.8083 | .00647 |
| #2 | .80249 | .09068 | 3.6159 | .12145 | .81402 | -.00244 | .00117 | 1.8554 | .00604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13779** | **.04271** | **.47823** | **-.00358** | W **-.06444** | **.11863** | **.35100** | **.01338** |
| Stddev | .00007 | .00342 | .00133 | .00007 | .00020 | .00012 | .00078 | .00135 |
| %RSD | .04843 | 8.0049 | .27895 | 2.0157 | .31298 | .09903 | .22227 | 10.088 |
| #1 | .13774 | .04029 | .47917 | -.00353 | -.06430 | .11871 | .35156 | .01243 |
| #2 | .13784 | .04512 | .47728 | -.00363 | -.06459 | .11855 | .35045 | .01434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5722.3** | **71605.** | **3116.4** |
| Stddev | .8 | 226. | 11.4 |
| %RSD | .01442 | .31585 | .36460 |
| #1 | 5722.9 | 71765. | 3124.5 |
| #2 | 5721.8 | 71445. | 3108.4 |

Sample Name: 280-42159-A-41-A  Acquired: 5/18/2013 17:17:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **64.998** | **.03101** | **.03144** | **.30772** | **.00297** | **.00200** | W **619.17** | **.00107** |
| Stddev | .00052 | .393 | .00080 | .00071 | .00262 | .00019 | .00318 | 7.39 | .00011 |
| %RSD | 189.23 | .60472 | 2.5854 | 2.2561 | .84988 | 6.3114 | 158.83 | 1.1933 | 10.354 |
| #1 | -.00064 | 65.276 | .03158 | .03194 | .30956 | .00311 | .00426 | 624.39 | .00115 |
| #2 | .00009 | 64.720 | .03044 | .03094 | .30587 | .00284 | -.00025 | 613.94 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04562** | **.09077** | **.22737** | **141.97** | **10.156** | **.12864** | **34.079** | **5.0400** | **.00447** |
| Stddev | .00013 | .00013 | .00101 | 1.83 | .029 | .00373 | .077 | .0198 | .00028 |
| %RSD | .29584 | .14078 | .44408 | 1.2880 | .28246 | 2.9022 | .22718 | .39203 | 6.1681 |
| #1 | .04552 | .09086 | .22808 | 143.27 | 10.176 | .13128 | 34.134 | 5.0540 | .00428 |
| #2 | .04571 | .09068 | .22665 | 140.68 | 10.136 | .12600 | 34.024 | 5.0260 | .00467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99921** | **.10976** | **3.9111** | **.04952** | **1.0522** | **.00057** | **-.00062** | **2.0312** | **.00528** |
| Stddev | .04251 | .00062 | .0030 | .00061 | .0018 | .00173 | .00197 | .0079 | .00059 |
| %RSD | 4.2540 | .56281 | .07647 | 1.2396 | .16910 | 301.96 | 317.97 | .38777 | 11.149 |
| #1 | 1.0293 | .10933 | 3.9089 | .04909 | 1.0509 | .00179 | -.00202 | 2.0368 | .00486 |
| #2 | .96915 | .11020 | 3.9132 | .04995 | 1.0535 | -.00065 | .00078 | 2.0256 | .00570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4578** | **.04500** | **.48636** | **-.00396** | W **-.09456** | **.11649** | **.38017** | **.04482** |
| Stddev | .0032 | .00074 | .00040 | .00009 | .02279 | .00096 | .00081 | .00250 |
| %RSD | .22303 | 1.6428 | .08218 | 2.1956 | 24.102 | .82360 | .21308 | 5.5835 |
| #1 | 1.4601 | .04553 | .48608 | -.00390 | -.11068 | .11717 | .38075 | .04305 |
| #2 | 1.4555 | .04448 | .48664 | -.00402 | -.07845 | .11581 | .37960 | .04659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5627.1** | **71192.** | **3104.3** |
| Stddev | 7.7 | 18. | 4.3 |
| %RSD | .13674 | .02592 | .13946 |
| #1 | 5621.7 | 71205. | 3101.3 |
| #2 | 5632.5 | 71179. | 3107.4 |

Sample Name: 280-42159-A-42-A  Acquired: 5/18/2013 17:20:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **57.665** | **.03391** | **.03461** | **.22752** | **.00219** | **-.00036** | W **825.65** | **.00216** |
| Stddev | .00018 | .086 | .00000 | .00044 | .00022 | .00013 | .00278 | 4.36 | .00020 |
| %RSD | 154.46 | .14941 | .00415 | 1.2797 | .09735 | 5.8632 | 780.37 | .52825 | 9.1704 |
| #1 | -.00001 | 57.604 | .03391 | .03492 | .22767 | .00228 | -.00233 | 822.57 | .00202 |
| #2 | .00024 | 57.726 | .03391 | .03429 | .22736 | .00210 | .00161 | 828.74 | .00230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03664** | **.07574** | **1.2715** | **102.75** | **7.0571** | **.09628** | **86.236** | **4.4192** | **.00322** |
| Stddev | .00001 | .00033 | .0036 | .58 | .0602 | .00266 | .469 | .0267 | .00044 |
| %RSD | .03574 | .43255 | .28199 | .56013 | .85260 | 2.7665 | .54358 | .60334 | 13.593 |
| #1 | .03663 | .07597 | 1.2690 | 102.34 | 7.0146 | .09440 | 85.904 | 4.4003 | .00353 |
| #2 | .03665 | .07550 | 1.2741 | 103.16 | 7.0997 | .09816 | 86.567 | 4.4380 | .00291 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3388** | **.08870** | **3.7435** | **.48891** | **5.1701** | **.00933** | **.00199** | **1.6692** | **.00582** |
| Stddev | .0058 | .00021 | .0067 | .00005 | .0149 | .00038 | .00514 | .0183 | .00056 |
| %RSD | .43380 | .23581 | .17963 | .00984 | .28855 | 4.0334 | 258.37 | 1.0942 | 9.6904 |
| #1 | 1.3429 | .08884 | 3.7483 | .48887 | 5.1806 | .00960 | -.00164 | 1.6821 | .00622 |
| #2 | 1.3347 | .08855 | 3.7387 | .48894 | 5.1595 | .00907 | .00562 | 1.6563 | .00542 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85369** | **.03671** | **.47421** | **-.00315** | W **-.09977** | **.11385** | **.48784** | **.01395** |
| Stddev | .00382 | .00268 | .00325 | .00104 | .01448 | .00151 | .00551 | .00095 |
| %RSD | .44764 | 7.3042 | .68576 | 32.914 | 14.514 | 1.3303 | 1.1289 | 6.8379 |
| #1 | .85098 | .03481 | .47191 | -.00242 | -.08953 | .11278 | .48395 | .01462 |
| #2 | .85639 | .03861 | .47651 | -.00388 | -.11001 | .11493 | .49173 | .01327 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5401.4** | **68034.** | **3056.4** |
| Stddev | 28.5 | 300. | 4.0 |
| %RSD | .52704 | .44143 | .13012 |
| #1 | 5381.3 | 68247. | 3059.3 |
| #2 | 5421.5 | 67822. | 3053.6 |

Sample Name: 280-42159-A-43-A  Acquired: 5/18/2013 17:23:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **58.715** | **.05174** | **.02818** | **.15903** | **.00255** | **.00144** | **211.11** | **.00089** |
| Stddev | .00041 | .105 | .00360 | .00071 | .00044 | .00006 | .00032 | .63 | .00000 |
| %RSD | 86.487 | .17838 | 6.9492 | 2.5316 | .27355 | 2.4908 | 22.179 | .29613 | .05050 |
| #1 | -.00018 | 58.789 | .04920 | .02768 | .15872 | .00250 | .00167 | 211.56 | .00089 |
| #2 | -.00076 | 58.641 | .05428 | .02869 | .15933 | .00259 | .00122 | 210.67 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04539** | **.07667** | **.39086** | **113.51** | **9.3792** | **.11908** | **35.414** | **3.8284** | **.00312** |
| Stddev | .00116 | .00176 | .00085 | .32 | .0062 | .00023 | .111 | .0144 | .00054 |
| %RSD | 2.5492 | 2.2914 | .21799 | .28239 | .06570 | .19161 | .31368 | .37476 | 17.379 |
| #1 | .04457 | .07543 | .39146 | 113.28 | 9.3836 | .11924 | 35.493 | 3.8386 | .00273 |
| #2 | .04621 | .07791 | .39026 | 113.74 | 9.3749 | .11892 | 35.336 | 3.8183 | .00350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2752** | **.10957** | **3.0201** | **.06569** | **6.3201** | **-.00049** | **-.00073** | **1.9206** | **.00533** |
| Stddev | .0177 | .00214 | .0582 | .00151 | .1337 | .00075 | .00247 | .0307 | .00052 |
| %RSD | 1.3848 | 1.9571 | 1.9269 | 2.2977 | 2.1161 | 151.20 | 338.27 | 1.5994 | 9.8351 |
| #1 | 1.2877 | .10805 | 2.9790 | .06463 | 6.2255 | .00003 | .00102 | 1.9423 | .00496 |
| #2 | 1.2627 | .11109 | 3.0613 | .06676 | 6.4147 | -.00102 | -.00248 | 1.8989 | .00570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30959** | **.04118** | **.28107** | **-.00326** | W **-.06992** | **.10276** | **.30958** | **.03882** |
| Stddev | .00181 | .00336 | .00147 | .00053 | .01220 | .00015 | .00111 | .00069 |
| %RSD | .58501 | 8.1527 | .52419 | 16.183 | 17.441 | .14432 | .35738 | 1.7894 |
| #1 | .31087 | .04356 | .28211 | -.00288 | -.07854 | .10266 | .31036 | .03833 |
| #2 | .30831 | .03881 | .28003 | -.00363 | -.06130 | .10287 | .30880 | .03931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5770.1** | **72974.** | **3174.2** |
| Stddev | 80.9 | 173. | 12.3 |
| %RSD | 1.4022 | .23668 | .38879 |
| #1 | 5827.3 | 72852. | 3165.5 |
| #2 | 5712.8 | 73096. | 3182.9 |

Sample Name: 280-42159-A-44-A  Acquired: 5/18/2013 17:25:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174361 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **68.004** | **.03543** | **.02457** | **.22340** | **.00271** | **-.00305** | **146.09** | **.00150** |
| Stddev | .00003 | .511 | .00179 | .00059 | .00136 | .00006 | .00167 | 1.09 | .00018 |
| %RSD | 22.914 | .75179 | 5.0656 | 2.3923 | .60755 | 2.0802 | 54.649 | .74880 | 11.738 |
| #1 | -.00013 | 68.365 | .03669 | .02416 | .22436 | .00267 | -.00187 | 146.87 | .00163 |
| #2 | -.00017 | 67.642 | .03416 | .02499 | .22244 | .00275 | -.00424 | 145.32 | .00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04253** | **.07112** | **.31260** | **109.02** | **7.4184** | **.09739** | **23.278** | **3.1753** | **.00103** |
| Stddev | .00032 | .00068 | .00042 | .33 | .0063 | .00218 | .020 | .0037 | .00006 |
| %RSD | .74129 | .95393 | .13503 | .29915 | .08448 | 2.2369 | .08392 | .11744 | 5.4629 |
| #1 | .04230 | .07064 | .31230 | 108.79 | 7.4139 | .09893 | 23.264 | 3.1727 | .00107 |
| #2 | .04275 | .07160 | .31290 | 109.25 | 7.4228 | .09585 | 23.292 | 3.1780 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.78361** | **.09341** | **3.9181** | **.24614** | **1.2026** | **-.00042** | **.00390** | **2.1018** | **.00623** |
| Stddev | .02605 | .00067 | .0231 | .00343 | .0147 | .00218 | .00193 | .0077 | .00016 |
| %RSD | 3.3241 | .71561 | .58832 | 1.3953 | 1.2227 | 522.90 | 49.585 | .36481 | 2.5520 |
| #1 | .80203 | .09293 | 3.9018 | .24371 | 1.1922 | .00113 | .00527 | 2.0963 | .00634 |
| #2 | .76519 | .09388 | 3.9344 | .24857 | 1.2130 | -.00196 | .00253 | 2.1072 | .00611 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20645** | **.03850** | **.53742** | **-.00304** | W **-.07345** | **.11903** | **.36333** | **.00979** |
| Stddev | .00154 | .00123 | .00207 | .00123 | .01477 | .00040 | .00077 | .00082 |
| %RSD | .74509 | 3.1848 | .38607 | 40.565 | 20.106 | .33884 | .21110 | 8.4236 |
| #1 | .20754 | .03763 | .53595 | -.00391 | -.08390 | .11931 | .36387 | .01037 |
| #2 | .20537 | .03936 | .53889 | -.00217 | -.06301 | .11874 | .36278 | .00921 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5696.1** | **71581.** | **3085.8** |
| Stddev | 9.8 | 122. | 38.0 |
| %RSD | .17212 | .17017 | 1.2323 |
| #1 | 5703.0 | 71667. | 3058.9 |
| #2 | 5689.1 | 71495. | 3112.7 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 17:28:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **50.640** | **-.00305** | **.00334** | **.00086** | **-.00004** | **1.0115** | **.14248** | **-.00055** | **.00165** | **-.00006** | **.00124** | **49.932** |
| Stddev | .00013 | .163 | .00132 | .00059 | .00040 | .00006 | .0044 | .02679 | .00018 | .00004 | .00015 | .00009 | .142 |
| %RSD | 27.738 | .32259 | 43.240 | 17.528 | 45.998 | 152.45 | .43439 | 18.799 | 32.154 | 2.6716 | 247.09 | 7.1754 | .28388 |
| #1 | -.00036 | 50.524 | -.00398 | .00376 | .00115 | -.00008 | 1.0084 | .16142 | -.00042 | .00169 | -.00016 | .00130 | 49.831 |
| #2 | -.00054 | 50.755 | -.00212 | .00293 | .00058 | .00000 | 1.0146 | .12354 | -.00067 | .00162 | .00004 | .00118 | 50.032 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07433** | **-.00251** | **.01603** | **.00107** | **-.00180** | **262.51** | **.00099** | **.00651** | **.00029** | **5.0904** | **-.00057** | **.00538** | **.02132** |
| Stddev | .01861 | .00232 | .00012 | .00007 | .00001 | .08 | .00007 | .00230 | .00086 | .0162 | .00014 | .00237 | .01638 |
| %RSD | 25.039 | 92.774 | .72693 | 6.1104 | .57249 | .02976 | 6.8017 | 35.395 | 292.91 | .31911 | 24.389 | 44.110 | 76.865 |
| #1 | .08749 | -.00415 | .01612 | .00111 | -.00180 | 262.46 | .00094 | .00814 | -.00031 | 5.0789 | -.00048 | .00370 | .00973 |
| #2 | .06117 | -.00086 | .01595 | .00102 | -.00179 | 262.57 | .00103 | .00488 | .00090 | 5.1019 | -.00067 | .00706 | .03290 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **.00076** | **5.0058** | **.00352** | **-.00121** | **10.064** | **-.00022** | **.00340** | **-.02733** |
| Stddev | .00130 | .00006 | .0110 | .00031 | .00057 | .082 | .00026 | .00016 | .00577 |
| %RSD | 114.89 | 8.0911 | .22057 | 8.8200 | 47.545 | .81193 | 118.71 | 4.6514 | 21.129 |
| #1 | .00021 | .00080 | 5.0136 | .00330 | -.00080 | 10.122 | -.00004 | .00351 | -.02325 |
| #2 | .00205 | .00071 | 4.9980 | .00374 | -.00161 | 10.006 | -.00040 | .00329 | -.03141 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5340.4** | **67236.** | **2785.9** |
| Stddev | 24.1 | 40. | 1.2 |
| %RSD | .45185 | .05918 | .04131 |
| #1 | 5357.5 | 67208. | 2786.7 |
| #2 | 5323.4 | 67264. | 2785.1 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 17:30:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52251** | **.54408** | **1.0352** | **.52765** | **.51501** | **.50752** | **.00151** | **5.2252** | **.52231** | **.52515** | **.51934** | **.51783** | **2.6034** |
| Stddev | .00037 | .00085 | .0049 | .00160 | .00496 | .00493 | .00249 | .0688 | .00024 | .00126 | .00032 | .00088 | .0334 |
| %RSD | .07079 | .15608 | .47372 | .30281 | .96325 | .97066 | 164.96 | 1.3174 | .04626 | .24046 | .06240 | .17033 | 1.2834 |
| #1 | .52278 | .54468 | 1.0387 | .52878 | .51150 | .50403 | .00328 | 5.1765 | .52248 | .52426 | .51911 | .51846 | 2.5798 |
| #2 | .52225 | .54347 | 1.0317 | .52652 | .51851 | .51100 | -.00025 | 5.2738 | .52214 | .52604 | .51957 | .51721 | 2.6270 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **54.032** | **1.0839** | **20.760** | **.51613** | **.52058** | **5.3301** | **.52613** | **1.0497** | **1.0514** | **.00297** | **1.0553** | **1.0484** | **5.0939** |
| Stddev | .560 | .0141 | .010 | .00024 | .00086 | .0387 | .00064 | .0028 | .0011 | .00120 | .0024 | .0027 | .0138 |
| %RSD | 1.0368 | 1.2960 | .04757 | .04684 | .16525 | .72662 | .12213 | .27041 | .10511 | 40.486 | .22867 | .25820 | .27169 |
| #1 | 53.636 | 1.0740 | 20.767 | .51630 | .52118 | 5.3027 | .52659 | 1.0517 | 1.0522 | .00212 | 1.0570 | 1.0503 | 5.0841 |
| #2 | 54.428 | 1.0939 | 20.753 | .51596 | .51997 | 5.3575 | .52568 | 1.0477 | 1.0506 | .00381 | 1.0536 | 1.0465 | 5.1037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0368** | **.51785** | **.00122** | **.51597** | **1.0503** | **-.05476** | **.51409** | **.51881** | **.50608** |
| Stddev | .0016 | .00629 | .00097 | .00009 | .0054 | .00156 | .00030 | .00006 | .00517 |
| %RSD | .15432 | 1.2145 | 79.108 | .01810 | .51803 | 2.8572 | .05833 | .01066 | 1.0218 |
| #1 | 1.0379 | .51340 | .00191 | .51603 | 1.0541 | -.05587 | .51388 | .51885 | .50243 |
| #2 | 1.0356 | .52230 | .00054 | .51590 | 1.0464 | -.05366 | .51430 | .51877 | .50974 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5387.8** | **68076.** | **2834.9** |
| Stddev | 2.9 | 30. | 28.9 |
| %RSD | .05320 | .04441 | 1.0180 |
| #1 | 5389.9 | 68055. | 2855.3 |
| #2 | 5385.8 | 68098. | 2814.5 |

Sample Name: CCB Acquired: 5/18/2013 17:32:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.01110** | **-.00023** | W **.00278** | W **.00087** | **-.00000** | **-.00352** | W **.04743** | **.00014** | **-.00019** | **-.00009** |
| Stddev | .00007 | .00001 | .00016 | .00023 | .00010 | .00003 | .00385 | .00446 | .00007 | .00006 | .00002 |
| %RSD | 21.970 | .13215 | 68.504 | 8.3086 | 11.423 | 632.36 | 109.51 | 9.3936 | 52.929 | 32.238 | 21.842 |
| #1 | -.00027 | .01111 | -.00034 | .00262 | .00094 | -.00003 | -.00625 | .04428 | .00009 | -.00014 | -.00010 |
| #2 | -.00036 | .01108 | -.00012 | .00295 | .00080 | .00002 | -.00079 | .05058 | .00019 | -.00023 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | .00058 | | | .03450 | | | |
| Low Limit | | | | -.00156 | -.00058 | | | -.03450 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.02161** | **.08891** | **-.00041** | **.00671** | F **.00052** | **.00019** | **.05633** | **-.00064** | **.00229** | **.00169** |
| Stddev | .00002 | .00336 | .03758 | .00120 | .00026 | .00006 | .00011 | .01832 | .00046 | .00148 | .00007 |
| %RSD | 2.1383 | 15.573 | 42.265 | 291.55 | 3.8479 | 12.444 | 59.178 | 32.516 | 72.035 | 64.900 | 3.9982 |
| #1 | .00073 | .02398 | .11548 | -.00126 | .00689 | .00047 | .00027 | .04338 | -.00031 | .00124 | .00174 |
| #2 | .00071 | .01923 | .06234 | .00044 | .00652 | .00056 | .00011 | .06928 | -.00097 | .00334 | .00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00051 | | | | | |
| Low Limit | | | | | | -.00051 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **-.00063** | **-.00032** | **.03424** | **.00153** | **.00023** | **-.00067** | **.00015** | **-.00215** | F **-.05283** | **-.00026** |
| Stddev | .00019 | .00103 | .00001 | .00766 | .00015 | .00003 | .00042 | .00007 | .00108 | .02903 | .00019 |
| %RSD | 32.515 | 163.56 | 2.7793 | 22.363 | 9.9884 | 11.552 | 62.091 | 47.636 | 50.552 | 54.952 | 73.237 |
| #1 | -.00045 | .00010 | -.00032 | .03965 | .00164 | .00025 | -.00038 | .00019 | -.00291 | -.07336 | -.00040 |
| #2 | -.00072 | -.00136 | -.00033 | .02882 | .00142 | .00021 | -.00097 | .00010 | -.00138 | -.03230 | -.00013 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | | .05000 | |
| Low Limit | | | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00284** | **-.00032** |
| Stddev | .00045 | .00059 |
| %RSD | 15.761 | 182.97 |
| #1 | .00253 | -.00074 |
| #2 | .00316 | .00009 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5372.1** | **68128.** | **2785.3** |
| Stddev | 10.1 | 325. | 18.7 |
| %RSD | .18721 | .47758 | .67134 |
| #1 | 5365.0 | 68358. | 2798.5 |
| #2 | 5379.2 | 67898. | 2772.1 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 17:35:26 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01028** | **.11490** | W **.01130** | **.10638** | **.01172** | **.00087** | **.10588** | W **.24305** | **.00554** | **.01080** | **.01032** |
| Stddev | .00037 | .00146 | .00172 | .00040 | .00017 | .00006 | .00115 | .00622 | .00018 | .00012 | .00012 |
| %RSD | 3.6133 | 1.2699 | 15.226 | .37224 | 1.4199 | 6.8320 | 1.0905 | 2.5578 | 3.2140 | 1.1463 | 1.1981 |
| #1 | .01054 | .11593 | .01008 | .10610 | .01160 | .00083 | .10669 | .23865 | .00566 | .01089 | .01041 |
| #2 | .01002 | .11387 | .01251 | .10666 | .01184 | .00091 | .10506 | .24745 | .00541 | .01071 | .01024 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01500 | | | | | .20000 | | | |
| Range | | | -20.000% | | | | | 20.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01624** | W **.12200** | **3.4346** | **.01053** | **.22050** | **.01097** | **.02092** | **1.1426** | **.04271** | **3.0552** | **.01021** |
| Stddev | .00085 | .00036 | .0302 | .00310 | .00265 | .00005 | .00045 | .0064 | .00014 | .0109 | .00009 |
| %RSD | 5.2385 | .29188 | .88015 | 29.420 | 1.2026 | .46425 | 2.1529 | .56208 | .33436 | .35782 | .87781 |
| #1 | .01685 | .12175 | 3.4132 | .00834 | .21863 | .01094 | .02124 | 1.1471 | .04281 | 3.0629 | .01028 |
| #2 | .01564 | .12225 | 3.4560 | .01272 | .22238 | .01101 | .02060 | 1.1380 | .04261 | 3.0475 | .01015 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | | | | |
| Range | | 20.000% | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00910** | **.01421** | **.52261** | **.10494** | **.01095** | **.01557** | **.01096** | **.01532** | F **.02575** | **.01063** |
| Stddev | .00039 | .00025 | .00100 | .00384 | .00050 | .00006 | .00036 | .00012 | .00061 | .01926 | .00070 |
| %RSD | 104.23 | 2.7457 | 7.0312 | .73532 | .47338 | .58570 | 2.2811 | 1.1085 | 4.0108 | 74.793 | 6.5949 |
| #1 | .00010 | .00892 | .01492 | .52533 | .10529 | .01100 | .01532 | .01087 | .01488 | .03938 | .01014 |
| #2 | .00066 | .00927 | .01351 | .51989 | .10458 | .01091 | .01582 | .01104 | .01575 | .01213 | .01113 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02412** | **.01721** |
| Stddev | .00061 | .00020 |
| %RSD | 2.5215 | 1.1634 |
| #1 | .02369 | .01706 |
| #2 | .02455 | .01735 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5389.4** | **67693.** | **2813.1** |
| Stddev | 9.4 | 525. | 24.5 |
| %RSD | .17392 | .77494 | .87111 |
| #1 | 5382.8 | 68064. | 2830.5 |
| #2 | 5396.0 | 67322. | 2795.8 |

Sample Name: MB 280-174366/1-A Acquired: 5/18/2013 17:37:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00075** | **.02335** | **-.00049** | F **.02603** | **.00146** | **-.00006** | **-.00231** | **.09046** | **.00024** |
| Stddev | .00027 | .00065 | .00021 | .00069 | .00027 | .00015 | .00489 | .00021 | .00019 |
| %RSD | 35.675 | 2.7721 | 42.606 | 2.6359 | 18.334 | 269.79 | 211.19 | .22671 | 81.821 |
| #1 | -.00056 | .02381 | -.00064 | .02554 | .00127 | .00005 | .00114 | .09032 | .00037 |
| #2 | -.00094 | .02289 | -.00034 | .02651 | .00165 | -.00017 | -.00577 | .09061 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00003** | **.00165** | W **.03683** | **.13105** | **-.00288** | **.01595** | **.00097** | **.00024** |
| Stddev | .00038 | .00013 | .00064 | .00026 | .03952 | .00092 | .00146 | .00002 | .00026 |
| %RSD | 939.92 | 419.63 | 38.727 | .70416 | 30.158 | 32.071 | 9.1701 | 2.5222 | 108.96 |
| #1 | .00031 | -.00006 | .00211 | .03664 | .15900 | -.00223 | .01698 | .00099 | .00042 |
| #2 | -.00023 | .00012 | .00120 | .03701 | .10311 | -.00354 | .01492 | .00096 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33992** | **-.00025** | F **.08006** | **.00013** | **.04198** | **-.00013** | **.00281** | W **.06762** | **.00735** |
| Stddev | .01246 | .00003 | .00169 | .00056 | .00012 | .00114 | .00358 | .00112 | .00121 |
| %RSD | 3.6659 | 13.482 | 2.1080 | 418.17 | .27484 | 875.58 | 127.66 | 1.6508 | 16.421 |
| #1 | .33111 | -.00023 | .08125 | .00053 | .04206 | .00068 | .00534 | .06841 | .00650 |
| #2 | .34873 | -.00028 | .07886 | -.00026 | .04190 | -.00094 | .00027 | .06683 | .00821 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **-.00046** | **.00075** | **-.00168** | **-.04217** | **.00052** | **.00391** | **-.00020** |
| Stddev | .00013 | .00156 | .00056 | .00155 | .04733 | .00022 | .00039 | .00182 |
| %RSD | 48.869 | 338.86 | 74.168 | 91.840 | 112.23 | 42.265 | 9.8803 | 888.53 |
| #1 | .00036 | .00064 | .00036 | -.00059 | -.07563 | .00068 | .00418 | .00108 |
| #2 | .00017 | -.00156 | .00115 | -.00278 | -.00870 | .00037 | .00363 | -.00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5420.9** | **68711.** | **2837.8** |
| Stddev | 9.7 | 260. | 17.7 |
| %RSD | .17876 | .37861 | .62371 |
| #1 | 5427.8 | 68527. | 2850.3 |
| #2 | 5414.1 | 68895. | 2825.3 |

Sample Name: LCS 280-174366/2-A Acquired: 5/18/2013 17:40:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05247** | **2.0485** | **.97866** | F **1.2516** | **1.9835** | **.04950** | **2.0170** | **48.932** | **.10240** |
| Stddev | .00067 | .0013 | .00311 | .0019 | .0038 | .00003 | .0047 | .127 | .00001 |
| %RSD | 1.2680 | .06498 | .31762 | .15548 | .18999 | .06471 | .23395 | .25935 | .00921 |
| #1 | .05200 | 2.0494 | .97646 | 1.2503 | 1.9808 | .04952 | 2.0137 | 48.842 | .10240 |
| #2 | .05295 | 2.0475 | .98086 | 1.2530 | 1.9862 | .04948 | 2.0203 | 49.021 | .10239 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 1.1000 | | | | | |
| Low Limit | | | | .81000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49699** | **.19790** | **.25181** | **1.0334** | **52.580** | **1.0479** | **49.204** | **.48836** | **.99692** |
| Stddev | .00026 | .00000 | .00006 | .0084 | .075 | .0023 | .022 | .00095 | .00037 |
| %RSD | .05192 | .00240 | .02437 | .81177 | .14247 | .21926 | .04410 | .19404 | .03741 |
| #1 | .49681 | .19790 | .25177 | 1.0274 | 52.527 | 1.0463 | 49.188 | .48769 | .99718 |
| #2 | .49717 | .19789 | .25186 | 1.0393 | 52.633 | 1.0495 | 49.219 | .48903 | .99665 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.851** | **.49212** | **10.276** | **.49648** | **.03705** | **.50344** | **1.9982** | **1.2193** | **1.9684** |
| Stddev | .224 | .00035 | .001 | .00018 | .00305 | .00329 | .0114 | .0110 | .0130 |
| %RSD | .42383 | .07183 | .01126 | .03536 | 8.2309 | .65326 | .57005 | .89926 | .65988 |
| #1 | 53.009 | .49187 | 10.275 | .49635 | .03921 | .50577 | 2.0062 | 1.2270 | 1.9776 |
| #2 | 52.693 | .49237 | 10.277 | .49660 | .03489 | .50111 | 1.9901 | 1.2115 | 1.9592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99811** | **.98380** | **.99405** | **2.0116** | **1.9642** | **.49554** | **.48734** | **.48250** |
| Stddev | .00270 | .00532 | .00367 | .0111 | .0400 | .00276 | .00089 | .00186 |
| %RSD | .27090 | .54045 | .36880 | .55357 | 2.0381 | .55608 | .18316 | .38572 |
| #1 | .99620 | .98004 | .99146 | 2.0195 | 1.9925 | .49359 | .48797 | .48381 |
| #2 | 1.0000 | .98756 | .99664 | 2.0037 | 1.9358 | .49749 | .48670 | .48118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5240.1** | **66436.** | **2781.7** |
| Stddev | 8.9 | 161. | 7.9 |
| %RSD | .17054 | .24288 | .28291 |
| #1 | 5233.8 | 66322. | 2787.2 |
| #2 | 5246.4 | 66550. | 2776.1 |

Sample Name: 280-42159-A-45-A  Acquired: 5/18/2013 17:42:36  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **51.925** | **.02462** | **.02293** | **.16004** | **.00254** | **-.00053** | **122.70** | **.00074** |
| Stddev | .00012 | .324 | .00045 | .00004 | .00163 | .00008 | .00211 | .79 | .00013 |
| %RSD | 18.133 | .62412 | 1.8269 | .17068 | 1.0204 | 3.2920 | 395.11 | .64517 | 17.793 |
| #1 | .00073 | 51.696 | .02430 | .02290 | .15888 | .00260 | -.00203 | 122.14 | .00064 |
| #2 | .00056 | 52.154 | .02494 | .02296 | .16119 | .00248 | .00096 | 123.26 | .00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04405** | **.06506** | **.17515** | **125.99** | **8.5821** | **.10076** | **29.684** | **8.1287** | **.00029** |
| Stddev | .00049 | .00047 | .00133 | .19 | .0175 | .00075 | .051 | .1206 | .00043 |
| %RSD | 1.1198 | .72340 | .75823 | .14906 | .20333 | .73947 | .17332 | 1.4841 | 149.30 |
| #1 | .04370 | .06473 | .17609 | 125.85 | 8.5698 | .10023 | 29.721 | 8.0434 | -.00002 |
| #2 | .04440 | .06539 | .17421 | 126.12 | 8.5944 | .10129 | 29.648 | 8.2140 | .00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2597** | **.10184** | **3.0947** | **.03416** | **2.8722** | **-.00143** | **-.00275** | **2.4913** | **.00450** |
| Stddev | .0017 | .00037 | .0149 | .00201 | .0118 | .00288 | .00392 | .0543 | .00093 |
| %RSD | .07320 | .36653 | .48246 | 5.8790 | .40963 | 201.29 | 142.72 | 2.1806 | 20.684 |
| #1 | 2.2608 | .10157 | 3.0841 | .03558 | 2.8639 | -.00347 | .00003 | 2.5298 | .00385 |
| #2 | 2.2585 | .10210 | 3.1052 | .03274 | 2.8805 | .00061 | -.00552 | 2.4529 | .00516 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18993** | **.03697** | **.24785** | **-.00574** | W **-.06433** | **.09110** | **.24575** | **.03420** |
| Stddev | .00026 | .00076 | .01193 | .00096 | .00627 | .00059 | .00076 | .00243 |
| %RSD | .13843 | 2.0663 | 4.8133 | 16.706 | 9.7430 | .64860 | .30822 | 7.1123 |
| #1 | .18974 | .03643 | .23941 | -.00506 | -.06876 | .09068 | .24629 | .03248 |
| #2 | .19011 | .03751 | .25628 | -.00641 | -.05990 | .09152 | .24522 | .03592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5667.6** | **71737.** | **3028.0** |
| Stddev | 7.8 | 73. | 21.5 |
| %RSD | .13787 | .10167 | .70865 |
| #1 | 5673.2 | 71789. | 3043.2 |
| #2 | 5662.1 | 71686. | 3012.9 |

Sample Name: sd 42159-A-45-A@5 Acquired: 5/18/2013 17:45:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **11.158** | **.00613** | **.00792** | **.03502** | **.00054** | **.00073** | **26.412** | **.00033** |
| Stddev | .00033 | .107 | .00093 | .00083 | .00006 | .00010 | .00003 | .237 | .00015 |
| %RSD | 54.994 | .96250 | 15.133 | 10.452 | .16420 | 18.443 | 3.7972 | .89676 | 46.655 |
| #1 | -.00037 | 11.082 | .00548 | .00734 | .03498 | .00061 | .00071 | 26.244 | .00044 |
| #2 | -.00084 | 11.234 | .00679 | .00851 | .03507 | .00047 | .00075 | 26.579 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00960** | **.01386** | **.03721** | **27.614** | **1.8954** | **.02276** | **6.4228** | **1.7833** | **-.00010** |
| Stddev | .00007 | .00010 | .00001 | .101 | .0084 | .00034 | .0031 | .0015 | .00005 |
| %RSD | .75654 | .72136 | .02208 | .36513 | .44314 | 1.4978 | .04752 | .08597 | 45.629 |
| #1 | .00955 | .01394 | .03721 | 27.542 | 1.9013 | .02300 | 6.4250 | 1.7844 | -.00007 |
| #2 | .00965 | .01379 | .03722 | 27.685 | 1.8895 | .02252 | 6.4207 | 1.7823 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47857** | **.02175** | **.65723** | **.00822** | **.60047** | **-.00015** | **-.00066** | **.65165** | **.00101** |
| Stddev | .00257 | .00024 | .00607 | .00020 | .00089 | .00056 | .00148 | .00851 | .00129 |
| %RSD | .53680 | 1.0820 | .92357 | 2.4360 | .14836 | 366.21 | 224.66 | 1.3052 | 128.22 |
| #1 | .48038 | .02191 | .65294 | .00836 | .60110 | .00024 | -.00171 | .64563 | .00009 |
| #2 | .47675 | .02158 | .66153 | .00808 | .59984 | -.00055 | .00039 | .65766 | .00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04120** | **.00833** | **.05661** | **-.00231** | **-.03343** | **.01963** | **.05637** | **.00986** |
| Stddev | .00075 | .00107 | .00208 | .00025 | .01533 | .00141 | .00011 | .00345 |
| %RSD | 1.8089 | 12.834 | 3.6741 | 10.901 | 45.850 | 7.2057 | .19546 | 34.967 |
| #1 | .04067 | .00908 | .05808 | -.00249 | -.04427 | .01863 | .05645 | .01230 |
| #2 | .04173 | .00757 | .05514 | -.00213 | -.02259 | .02063 | .05629 | .00742 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5393.4** | **67850.** | **2850.3** |
| Stddev | 3.7 | 106. | 11.5 |
| %RSD | .06856 | .15656 | .40371 |
| #1 | 5396.0 | 67775. | 2858.4 |
| #2 | 5390.8 | 67925. | 2842.1 |

Sample Name: 280-42159-A-45-B MS Acquired: 5/18/2013 17:47:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05777** | **76.068** | **.95015** | **1.0060** | **2.0585** | **.04869** | **1.9191** | **286.06** | **.09783** |
| Stddev | .00096 | 1.171 | .00472 | .0030 | .0304 | .00076 | .0089 | 4.21 | .00083 |
| %RSD | 1.6597 | 1.5390 | .49695 | .29442 | 1.4779 | 1.5706 | .46543 | 1.4708 | .84395 |
| #1 | .05845 | 75.240 | .95349 | 1.0081 | 2.0370 | .04815 | 1.9254 | 283.09 | .09841 |
| #2 | .05709 | 76.896 | .94682 | 1.0039 | 2.0800 | .04923 | 1.9128 | 289.04 | .09724 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49823** | **.26987** | **.38583** | **185.30** | **73.273** | **1.0980** | **138.40** | F **46.298** | **.91320** |
| Stddev | .00221 | .00066 | .00127 | 2.87 | .944 | .0149 | .57 | .368 | .00490 |
| %RSD | .44349 | .24287 | .32872 | 1.5492 | 1.2877 | 1.3589 | .41038 | .79444 | .53644 |
| #1 | .49979 | .27033 | .38673 | 183.27 | 72.606 | 1.0874 | 138.81 | 46.038 | .91666 |
| #2 | .49666 | .26940 | .38493 | 187.33 | 73.941 | 1.1086 | 138.00 | 46.559 | .90974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | 20.000 | |
| Low Limit | | | | | | | | -.02000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.228** | **.52675** | **12.539** | **.49239** | **2.2898** | **.30045** | **1.8739** | **4.4194** | **1.7924** |
| Stddev | .629 | .00197 | .053 | .00130 | .0046 | .00435 | .0057 | .0090 | .0091 |
| %RSD | 1.2037 | .37456 | .42397 | .26328 | .19981 | 1.4467 | .30530 | .20440 | .50887 |
| #1 | 51.784 | .52815 | 12.576 | .49331 | 2.2931 | .30352 | 1.8780 | 4.4130 | 1.7989 |
| #2 | 52.673 | .52536 | 12.501 | .49147 | 2.2866 | .29738 | 1.8699 | 4.4258 | 1.7860 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1797** | **.95635** | **1.2386** | **1.7697** | **1.8038** | **.56589** | **.66071** | **.51904** |
| Stddev | .0165 | .00516 | .0034 | .0073 | .0492 | .00394 | .00379 | .00021 |
| %RSD | 1.3979 | .53934 | .27252 | .41329 | 2.7256 | .69680 | .57295 | .04004 |
| #1 | 1.1680 | .96000 | 1.2409 | 1.7749 | 1.7691 | .56868 | .66338 | .51919 |
| #2 | 1.1913 | .95270 | 1.2362 | 1.7645 | 1.8386 | .56311 | .65803 | .51890 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5478.0** | **69870.** | **2968.4** |
| Stddev | 33.8 | 504. | 46.3 |
| %RSD | .61657 | .72086 | 1.5585 |
| #1 | 5454.1 | 69514. | 3001.1 |
| #2 | 5501.9 | 70226. | 2935.7 |

Sample Name: 280-42159-A-45-C MSD  Acquired: 5/18/2013 17:49:46  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05117** | **82.208** | **.95530** | **1.0138** | **2.1007** | **.04888** | **1.9198** | **196.43** | **.09765** |
| Stddev | .00174 | .097 | .01095 | .0119 | .0042 | .00011 | .0147 | .30 | .00103 |
| %RSD | 3.4030 | .11843 | 1.1461 | 1.1722 | .19852 | .22384 | .76432 | .15165 | 1.0505 |
| #1 | .04994 | 82.277 | .94756 | 1.0054 | 2.1037 | .04896 | 1.9094 | 196.64 | .09692 |
| #2 | .05241 | 82.139 | .96305 | 1.0222 | 2.0978 | .04881 | 1.9301 | 196.22 | .09837 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50032** | **.27104** | **.41810** | **107.10** | **70.109** | **1.1090** | **79.680** | **6.0398** | **.92299** |
| Stddev | .00547 | .00320 | .00302 | .58 | .144 | .0009 | .354 | .0177 | .01207 |
| %RSD | 1.0928 | 1.1805 | .72212 | .54566 | .20590 | .07720 | .44382 | .29384 | 1.3075 |
| #1 | .49645 | .26878 | .41596 | 107.51 | 70.211 | 1.1096 | 79.430 | 6.0524 | .91446 |
| #2 | .50418 | .27331 | .42023 | 106.68 | 70.007 | 1.1084 | 79.930 | 6.0273 | .93153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.885** | **.54654** | **12.579** | **.48566** | **2.8193** | **.30471** | **1.9011** | **5.0215** | **1.8223** |
| Stddev | .202 | .00551 | .122 | .00243 | .0307 | .00291 | .0161 | .1035 | .0204 |
| %RSD | .38881 | 1.0077 | .97366 | .49994 | 1.0899 | .95518 | .84581 | 2.0613 | 1.1201 |
| #1 | 52.028 | .54265 | 12.493 | .48395 | 2.7976 | .30265 | 1.8898 | 4.9483 | 1.8078 |
| #2 | 51.742 | .55043 | 12.666 | .48738 | 2.8410 | .30677 | 1.9125 | 5.0946 | 1.8367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1875** | **.96973** | **1.4356** | **1.8366** | **1.8756** | **.61294** | **.70992** | **.52529** |
| Stddev | .0017 | .00785 | .0073 | .0181 | .0140 | .00163 | .00314 | .00614 |
| %RSD | .14048 | .81000 | .50703 | .98507 | .74455 | .26673 | .44237 | 1.1691 |
| #1 | 1.1887 | .96417 | 1.4304 | 1.8238 | 1.8855 | .61178 | .70770 | .52095 |
| #2 | 1.1863 | .97528 | 1.4407 | 1.8494 | 1.8657 | .61410 | .71214 | .52963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5490.5** | **69203.** | **2966.9** |
| Stddev | 60.5 | 185. | 26.9 |
| %RSD | 1.1013 | .26698 | .90718 |
| #1 | 5533.2 | 69333. | 2947.9 |
| #2 | 5447.7 | 69072. | 2985.9 |

Sample Name: pds 280-42159-A-45-A  Acquired: 5/18/2013 17:52:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05096** | **52.208** | **.21199** | **.12341** | **.25404** | **.04920** | **-.00214** | **138.78** | **.05015** |
| Stddev | .00035 | .228 | .00538 | .00036 | .00047 | .00032 | .00061 | .68 | .00029 |
| %RSD | .69479 | .43664 | 2.5376 | .29399 | .18360 | .65340 | 28.337 | .49203 | .57952 |
| #1 | .05071 | 52.369 | .21580 | .12367 | .25437 | .04943 | -.00257 | 139.26 | .05035 |
| #2 | .05121 | 52.046 | .20819 | .12315 | .25371 | .04897 | -.00171 | 138.30 | .04994 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09108** | **.11162** | **.22131** | **124.78** | **28.776** | **.20392** | **48.256** | **8.0398** | **.04832** |
| Stddev | .00027 | .00018 | .00050 | 1.04 | .125 | .00484 | .071 | .0123 | .00079 |
| %RSD | .29596 | .16073 | .22387 | .83156 | .43507 | 2.3713 | .14715 | .15299 | 1.6419 |
| #1 | .09127 | .11175 | .22166 | 125.52 | 28.865 | .20734 | 48.306 | 8.0311 | .04888 |
| #2 | .09088 | .11150 | .22096 | 124.05 | 28.688 | .20050 | 48.206 | 8.0485 | .04776 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.828** | **.14675** | **5.0243** | **.12807** | **2.8420** | **.09666** | **.19275** | **7.6264** | **.10157** |
| Stddev | .032 | .00033 | .0101 | .00157 | .0131 | .00024 | .00464 | .0387 | .00237 |
| %RSD | .14019 | .22825 | .19995 | 1.2231 | .46072 | .24759 | 2.4074 | .50695 | 2.3289 |
| #1 | 22.805 | .14699 | 5.0314 | .12918 | 2.8513 | .09649 | .19603 | 7.6538 | .10325 |
| #2 | 22.850 | .14651 | 5.0172 | .12697 | 2.8328 | .09683 | .18946 | 7.5991 | .09990 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23539** | **.23164** | **.29465** | **.18554** | **.45609** | **.13857** | **.42625** | **.08479** |
| Stddev | .00127 | .00176 | .00237 | .00050 | .01476 | .00030 | .00011 | .00217 |
| %RSD | .54116 | .75813 | .80551 | .27037 | 3.2355 | .21805 | .02646 | 2.5626 |
| #1 | .23629 | .23039 | .29297 | .18589 | .44566 | .13878 | .42632 | .08325 |
| #2 | .23449 | .23288 | .29633 | .18518 | .46653 | .13835 | .42617 | .08632 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5622.4** | **70997.** | **3016.4** |
| Stddev | 24.5 | 43. | 5.0 |
| %RSD | .43621 | .06020 | .16512 |
| #1 | 5605.0 | 70967. | 3012.9 |
| #2 | 5639.7 | 71027. | 3019.9 |

Sample Name: 280-42159-A-46-A  Acquired: 5/18/2013 17:54:27  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **55.362** | **.02519** | **.04600** | **.27168** | **.00245** | **-.00615** | W **1302.8** | **.00182** |
| Stddev | .00048 | .744 | .00065 | .00074 | .00404 | .00009 | .00285 | 14.3 | .00029 |
| %RSD | 575.23 | 1.3446 | 2.5793 | 1.6112 | 1.4862 | 3.4995 | 46.334 | 1.0993 | 15.964 |
| #1 | -.00043 | 55.888 | .02565 | .04548 | .27453 | .00251 | -.00816 | 1312.9 | .00162 |
| #2 | .00026 | 54.835 | .02473 | .04652 | .26882 | .00239 | -.00413 | 1292.7 | .00203 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03875** | **.06949** | **.23396** | **113.76** | **8.9532** | **.11290** | **43.520** | **5.2199** | **.00295** |
| Stddev | .00013 | .00035 | .00123 | 1.20 | .1342 | .00075 | .167 | .0007 | .00013 |
| %RSD | .33228 | .50258 | .52748 | 1.0541 | 1.4986 | .66493 | .38291 | .01270 | 4.2492 |
| #1 | .03866 | .06924 | .23483 | 114.60 | 9.0481 | .11343 | 43.637 | 5.2194 | .00286 |
| #2 | .03884 | .06974 | .23309 | 112.91 | 8.8583 | .11237 | 43.402 | 5.2204 | .00304 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.9785** | **.10974** | **3.7688** | **.10862** | **10.854** | **.01789** | **-.00162** | **2.3022** | **.00628** |
| Stddev | .0333 | .00051 | .0112 | .00122 | .024 | .00060 | .00006 | .0793 | .00016 |
| %RSD | 1.1179 | .46613 | .29719 | 1.1263 | .22165 | 3.3430 | 3.4480 | 3.4447 | 2.5797 |
| #1 | 3.0020 | .10938 | 3.7609 | .10776 | 10.837 | .01831 | -.00166 | 2.3582 | .00640 |
| #2 | 2.9549 | .11010 | 3.7767 | .10949 | 10.871 | .01747 | -.00158 | 2.2461 | .00617 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3485** | **.03650** | **.40991** | **-.00198** | W **-.09785** | **.29269** | **.53366** | **.03955** |
| Stddev | .0285 | .00135 | .00336 | .00079 | .03335 | .00089 | .00274 | .00224 |
| %RSD | 1.2145 | 3.7114 | .81857 | 39.925 | 34.085 | .30239 | .51422 | 5.6518 |
| #1 | 2.3687 | .03746 | .41229 | -.00254 | -.12143 | .29331 | .53560 | .04113 |
| #2 | 2.3283 | .03554 | .40754 | -.00142 | -.07427 | .29206 | .53172 | .03797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5259.7** | **67108.** | **2962.9** |
| Stddev | 5.2 | 479. | 32.0 |
| %RSD | .09900 | .71441 | 1.0802 |
| #1 | 5263.4 | 66769. | 2940.3 |
| #2 | 5256.0 | 67447. | 2985.5 |

Sample Name: 280-42159-A-47-A  Acquired: 5/18/2013 17:57:30  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **61.630** | **.04333** | **.02425** | **.23406** | **.00275** | **-.00151** | **125.24** | **.00092** |
| Stddev | .00022 | .204 | .00213 | .00036 | .00006 | .00002 | .00141 | .39 | .00018 |
| %RSD | 96.239 | .33098 | 4.9160 | 1.4697 | .02522 | .82814 | 93.094 | .31438 | 19.563 |
| #1 | .00038 | 61.774 | .04183 | .02450 | .23401 | .00273 | -.00052 | 125.52 | .00105 |
| #2 | .00007 | 61.486 | .04484 | .02399 | .23410 | .00276 | -.00251 | 124.96 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05018** | **.07120** | **.17705** | **123.45** | **8.6040** | **.12662** | **33.162** | **4.9060** | **.00105** |
| Stddev | .00001 | .00039 | .00040 | .73 | .0370 | .00039 | .098 | .0409 | .00012 |
| %RSD | .02737 | .55421 | .22639 | .59105 | .43033 | .30968 | .29530 | .83434 | 11.026 |
| #1 | .05017 | .07148 | .17733 | 122.94 | 8.6302 | .12689 | 33.093 | 4.8770 | .00097 |
| #2 | .05019 | .07093 | .17676 | 123.97 | 8.5778 | .12634 | 33.231 | 4.9349 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.71333** | **.11107** | **3.0926** | **.03443** | **4.6547** | **-.00314** | **-.00079** | **2.3875** | **.00447** |
| Stddev | .01296 | .00055 | .0216 | .00078 | .0359 | .00194 | .00083 | .0388 | .00035 |
| %RSD | 1.8167 | .49249 | .69757 | 2.2732 | .77144 | 61.695 | 106.18 | 1.6249 | 7.8567 |
| #1 | .72249 | .11146 | 3.1078 | .03498 | 4.6801 | -.00451 | -.00020 | 2.4150 | .00472 |
| #2 | .70417 | .11068 | 3.0773 | .03387 | 4.6293 | -.00177 | -.00138 | 2.3601 | .00422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18233** | **.04401** | **.30076** | **-.00401** | W **-.05952** | **.09961** | **.30002** | **.04083** |
| Stddev | .00005 | .00040 | .00493 | .00134 | .01559 | .00061 | .00061 | .00257 |
| %RSD | .02506 | .90581 | 1.6401 | 33.479 | 26.188 | .61385 | .20464 | 6.3050 |
| #1 | .18236 | .04429 | .29727 | -.00495 | -.04850 | .09918 | .29959 | .04265 |
| #2 | .18230 | .04373 | .30425 | -.00306 | -.07054 | .10005 | .30046 | .03901 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5587.8** | **70133.** | **2996.5** |
| Stddev | 25.4 | 610. | 4.8 |
| %RSD | .45400 | .86994 | .16098 |
| #1 | 5569.8 | 70565. | 2993.1 |
| #2 | 5605.7 | 69702. | 2999.9 |

Sample Name: 280-42159-A-48-A  Acquired: 5/18/2013 17:59:55  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **52.655** | **.02943** | **.04668** | **.29081** | **.00235** | **-.00370** | W **1133.4** | **.00134** |
| Stddev | .00005 | .417 | .00251 | .00115 | .00237 | .00000 | .00453 | 2.5 | .00020 |
| %RSD | 199.35 | .79115 | 8.5346 | 2.4576 | .81657 | .18370 | 122.43 | .22111 | 14.747 |
| #1 | -.00007 | 52.950 | .03120 | .04750 | .29249 | .00235 | -.00690 | 1135.2 | .00120 |
| #2 | .00001 | 52.361 | .02765 | .04587 | .28914 | .00235 | -.00050 | 1131.7 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03773** | **.07802** | **.76659** | **109.20** | **9.4939** | **.12361** | **49.647** | **4.4310** | **.00427** |
| Stddev | .00099 | .00231 | .00054 | .46 | .0355 | .00120 | .084 | .0054 | .00005 |
| %RSD | 2.6204 | 2.9600 | .07093 | .42109 | .37389 | .97041 | .16848 | .12237 | 1.1779 |
| #1 | .03843 | .07965 | .76620 | 109.52 | 9.5190 | .12277 | 49.588 | 4.4271 | .00423 |
| #2 | .03703 | .07638 | .76697 | 108.87 | 9.4688 | .12446 | 49.706 | 4.4348 | .00430 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5180** | **.11450** | **3.3728** | **.24707** | **8.7792** | **.01700** | **-.00224** | **2.7319** | **.00839** |
| Stddev | .0422 | .00396 | .0982 | .00514 | .2634 | .00235 | .00920 | .0028 | .00061 |
| %RSD | 2.7814 | 3.4568 | 2.9101 | 2.0790 | 3.0006 | 13.830 | 410.96 | .10312 | 7.3108 |
| #1 | 1.4882 | .11730 | 3.4422 | .25070 | 8.9655 | .01866 | .00427 | 2.7339 | .00882 |
| #2 | 1.5479 | .11170 | 3.3034 | .24344 | 8.5929 | .01534 | -.00875 | 2.7299 | .00796 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6472** | **.03775** | **.33544** | **-.00252** | W **-.09141** | **.28947** | **.49467** | **.03507** |
| Stddev | .0102 | .00364 | .00171 | .00066 | .02944 | .00091 | .00133 | .00351 |
| %RSD | .61741 | 9.6369 | .50842 | 26.314 | 32.204 | .31416 | .26828 | 10.010 |
| #1 | 1.6544 | .03517 | .33423 | -.00299 | -.07059 | .29011 | .49373 | .03259 |
| #2 | 1.6401 | .04032 | .33664 | -.00205 | -.11222 | .28883 | .49561 | .03755 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5334.8** | **66209.** | **2974.3** |
| Stddev | 114.9 | 199. | 17.4 |
| %RSD | 2.1538 | .30067 | .58589 |
| #1 | 5253.5 | 66349. | 2962.0 |
| #2 | 5416.0 | 66068. | 2986.6 |

Sample Name: CCVH-2058327 Acquired: 5/18/2013 18:02:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00064** | **51.388** | **-.00300** | **.00349** | **.00118** | **-.00005** | **1.0365** | **.12633** | **-.00047** | **.00206** | **-.00000** | **.00039** | **50.775** |
| Stddev | .00003 | .579 | .00033 | .00004 | .00020 | .00002 | .0007 | .01394 | .00038 | .00000 | .00012 | .00001 | .484 |
| %RSD | 4.2149 | 1.1269 | 11.047 | 1.1845 | 16.966 | 42.597 | .06623 | 11.036 | 80.966 | .12060 | 3025.6 | 1.8977 | .95308 |
| #1 | -.00066 | 51.798 | -.00276 | .00346 | .00104 | -.00007 | 1.0360 | .11647 | -.00020 | .00206 | -.00009 | .00039 | 51.117 |
| #2 | -.00062 | 50.979 | -.00323 | .00352 | .00132 | -.00004 | 1.0370 | .13619 | -.00074 | .00206 | .00008 | .00040 | 50.433 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12408** | **.00071** | **.02213** | **.00249** | **-.00177** | **266.56** | **.00098** | **.00876** | **.00039** | **5.1945** | **.00097** | **.00367** | **-.01031** |
| Stddev | .00451 | .00280 | .00205 | .00011 | .00042 | 3.42 | .00037 | .00179 | .00057 | .0120 | .00163 | .00008 | .00381 |
| %RSD | 3.6310 | 394.70 | 9.2636 | 4.4667 | 23.718 | 1.2842 | 38.042 | 20.430 | 146.81 | .23012 | 167.88 | 2.1779 | 36.942 |
| #1 | .12727 | .00269 | .02358 | .00257 | -.00207 | 268.98 | .00072 | .01003 | -.00001 | 5.2030 | -.00018 | .00361 | -.01301 |
| #2 | .12090 | -.00127 | .02068 | .00241 | -.00148 | 264.14 | .00125 | .00750 | .00080 | 5.1861 | .00212 | .00372 | -.00762 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00159** | **.00061** | **5.1762** | **.00449** | **-.00193** | **10.344** | **-.00054** | **.00289** | **-.03871** |
| Stddev | .00011 | .00026 | .0159 | .00032 | .00040 | .085 | .00057 | .00009 | .00096 |
| %RSD | 6.8291 | 42.069 | .30803 | 7.1301 | 20.638 | .82519 | 106.05 | 2.9815 | 2.4722 |
| #1 | .00151 | .00079 | 5.1875 | .00472 | -.00221 | 10.404 | -.00013 | .00283 | -.03939 |
| #2 | .00167 | .00043 | 5.1650 | .00427 | -.00165 | 10.284 | -.00094 | .00295 | -.03803 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5194.4** | **65794.** | **2759.7** |
| Stddev | 36.0 | 170. | 41.2 |
| %RSD | .69278 | .25826 | 1.4927 |
| #1 | 5219.8 | 65914. | 2730.5 |
| #2 | 5168.9 | 65674. | 2788.8 |

Sample Name: CCV-2058325 Acquired: 5/18/2013 18:05:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53100** | F **.55115** | **1.0393** | **.53777** | **.52272** | **.51096** | **.00234** | **5.3268** | **.53093** | **.53348** | **.52006** | **.51962** |
| Stddev | .00269 | .00549 | .0118 | .00638 | .00502 | .00340 | .00039 | .0156 | .00474 | .00169 | .00475 | .00007 |
| %RSD | .50567 | .99605 | 1.1373 | 1.1860 | .95967 | .66625 | 16.564 | .29302 | .89270 | .31617 | .91264 | .01289 |
| #1 | .52910 | .54727 | 1.0309 | .53326 | .52627 | .51337 | .00261 | 5.3378 | .52758 | .53229 | .51670 | .51958 |
| #2 | .53290 | .55504 | 1.0477 | .54228 | .51917 | .50856 | .00206 | 5.3157 | .53429 | .53468 | .52342 | .51967 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | |
| Range | | 10.000% | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6357** | **54.480** | F **1.1014** | **20.700** | **.52008** | **.51788** | **5.3652** | **.52726** | **1.0654** | **1.0631** | **.00088** | **1.0689** |
| Stddev | .0126 | .238 | .0066 | .034 | .00046 | .00354 | .0540 | .00296 | .0077 | .0044 | .00021 | .0029 |
| %RSD | .47807 | .43778 | .59886 | .16494 | .08776 | .68332 | 1.0058 | .56082 | .72164 | .41705 | 24.060 | .26639 |
| #1 | 2.6446 | 54.649 | 1.1061 | 20.676 | .51976 | .51538 | 5.4033 | .52517 | 1.0599 | 1.0599 | .00103 | 1.0668 |
| #2 | 2.6268 | 54.311 | 1.0967 | 20.724 | .52040 | .52038 | 5.3270 | .52935 | 1.0708 | 1.0662 | .00073 | 1.0709 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | 1.0000 | | | | | | | | | |
| Range | | | 10.000% | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0723** | **5.1507** | **1.0350** | **.52804** | **-.00101** | **.52064** | **1.0525** | **-.01363** | **.51240** | **.51789** | **.50957** |
| Stddev | .0040 | .0420 | .0056 | .00307 | .00136 | .00145 | .0087 | .00649 | .00009 | .00134 | .00608 |
| %RSD | .36930 | .81568 | .53607 | .58175 | 134.68 | .27820 | .83061 | 47.587 | .01702 | .25877 | 1.1928 |
| #1 | 1.0695 | 5.1804 | 1.0311 | .53021 | -.00005 | .51961 | 1.0463 | -.00905 | .51246 | .51694 | .51387 |
| #2 | 1.0751 | 5.1210 | 1.0389 | .52586 | -.00197 | .52166 | 1.0587 | -.01822 | .51233 | .51884 | .50527 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5309.8** | **67267.** | **2760.9** |
| Stddev | 28.0 | 209. | 49.1 |
| %RSD | .52710 | .31057 | 1.7790 |
| #1 | 5329.6 | 67415. | 2726.2 |
| #2 | 5290.0 | 67119. | 2795.6 |

Sample Name: CCB Acquired: 5/18/2013 18:07:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **.01060** | **-.00048** | F **.00338** | W **.00113** | **-.00006** | **-.00234** | F **.09298** | **.00011** | **-.00023** | **-.00037** |
| Stddev | .00031 | .00022 | .00110 | .00066 | .00001 | .00005 | .00012 | .00017 | .00005 | .00000 | .00001 |
| %RSD | 179.76 | 2.0508 | 229.45 | 19.397 | 1.0391 | 93.006 | 5.0724 | .18141 | 43.963 | 1.7330 | 2.5323 |
| #1 | .00005 | .01076 | -.00126 | .00292 | .00114 | -.00002 | -.00242 | .09286 | .00015 | -.00023 | -.00037 |
| #2 | -.00039 | .01045 | .00030 | .00385 | .00112 | -.00009 | -.00226 | .09310 | .00008 | -.00023 | -.00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | .06900 | | | |
| Low Limit | | | | -.00312 | -.00058 | | | -.06900 | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.01958** | **.08490** | **-.00207** | **.00876** | F **.00152** | **-.00018** | **.03394** | **-.00075** | **.00143** | **.00011** |
| Stddev | .00002 | .00171 | .00400 | .00019 | .00011 | .00001 | .00001 | .00465 | .00000 | .00061 | .00241 |
| %RSD | 14.208 | 8.7327 | 4.7122 | 9.0689 | 1.2586 | .77458 | 3.4552 | 13.704 | .36249 | 42.576 | 2197.9 |
| #1 | .00012 | .02079 | .08773 | -.00193 | .00868 | .00151 | -.00018 | .03723 | -.00075 | .00100 | -.00159 |
| #2 | .00015 | .01837 | .08208 | -.00220 | .00884 | .00153 | -.00018 | .03065 | -.00075 | .00186 | .00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .00051 | | | | | |
| Low Limit | | | | | | -.00051 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00200** | **-.00128** | **.00090** | **-.00846** | **.00151** | **.00027** | **.00055** | **-.00012** | **-.00212** | **-.04713** | **.00057** |
| Stddev | .00027 | .00031 | .00096 | .02510 | .00041 | .00007 | .00100 | .00038 | .00147 | .01205 | .00004 |
| %RSD | 13.293 | 24.015 | 106.78 | 296.54 | 26.908 | 27.923 | 182.42 | 314.08 | 69.179 | 25.573 | 6.6370 |
| #1 | .00181 | -.00107 | .00158 | -.02621 | .00122 | .00032 | -.00016 | -.00039 | -.00108 | -.05565 | .00060 |
| #2 | .00218 | -.00150 | .00022 | .00928 | .00180 | .00021 | .00126 | .00015 | -.00316 | -.03861 | .00055 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00318** | **-.00088** |
| Stddev | .00015 | .00003 |
| %RSD | 4.5888 | 3.5933 |
| #1 | .00328 | -.00091 |
| #2 | .00307 | -.00086 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5362.1** | **66982.** | **2777.8** |
| Stddev | 8.8 | 34. | 3.0 |
| %RSD | .16369 | .05102 | .10851 |
| #1 | 5368.3 | 67007. | 2779.9 |
| #2 | 5355.9 | 66958. | 2775.6 |

Sample Name: CCVL2060387 Acquired: 5/18/2013 18:10:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01069** | W **.12355** | **.01591** | **.10992** | **.01185** | **.00106** | **.10859** | F **.29288** | **.00574** | **.01094** | **.01061** |
| Stddev | .00025 | .00153 | .00043 | .00158 | .00072 | .00005 | .00107 | .00369 | .00012 | .00045 | .00000 |
| %RSD | 2.3422 | 1.2394 | 2.7327 | 1.4414 | 6.1014 | 4.3011 | .98918 | 1.2594 | 2.0022 | 4.1307 | .03331 |
| #1 | .01087 | .12463 | .01561 | .11104 | .01134 | .00109 | .10935 | .29027 | .00583 | .01126 | .01061 |
| #2 | .01052 | .12246 | .01622 | .10879 | .01236 | .00102 | .10783 | .29549 | .00566 | .01062 | .01061 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | .20000 | | | |
| Range | | 20.000% | | | | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01634** | W **.12764** | **3.5057** | **.01076** | **.22383** | W **.01232** | **.02102** | **1.1577** | **.04332** | **3.1459** | F **.01306** |
| Stddev | .00070 | .00665 | .0824 | .00011 | .01026 | .00023 | .00022 | .0014 | .00037 | .0366 | .00036 |
| %RSD | 4.2657 | 5.2122 | 2.3489 | 1.0632 | 4.5834 | 1.8348 | 1.0341 | .12476 | .84255 | 1.1638 | 2.7429 |
| #1 | .01684 | .12293 | 3.5640 | .01068 | .23108 | .01248 | .02118 | 1.1588 | .04358 | 3.1717 | .01281 |
| #2 | .01585 | .13234 | 3.4475 | .01084 | .21657 | .01216 | .02087 | 1.1567 | .04307 | 3.1200 | .01331 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | .10000 | | | | .01000 | | | | | .00900 |
| Range | | 20.000% | | | | 20.000% | | | | | 30.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.00831** | **.01531** | **.53448** | **.10615** | **.01105** | **.01792** | **.01050** | **.01610** | F **.01047** | **.01053** |
| Stddev | .00171 | .00025 | .00062 | .01603 | .00077 | .00003 | .00001 | .00086 | .00031 | .03198 | .00038 |
| %RSD | 566.45 | 3.0455 | 4.0169 | 2.9988 | .72369 | .24718 | .06230 | 8.2345 | 1.9016 | 305.51 | 3.5989 |
| #1 | -.00151 | .00813 | .01488 | .52315 | .10670 | .01107 | .01792 | .01111 | .01631 | -.01215 | .01080 |
| #2 | .00091 | .00849 | .01575 | .54582 | .10561 | .01103 | .01791 | .00989 | .01588 | .03308 | .01026 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02391** | **.01582** |
| Stddev | .00124 | .00461 |
| %RSD | 5.1835 | 29.144 |
| #1 | .02478 | .01908 |
| #2 | .02303 | .01256 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5404.0** | **69135.** | **2834.6** |
| Stddev | 29.2 | 2423. | 16.2 |
| %RSD | .54075 | 3.5051 | .57079 |
| #1 | 5383.3 | 67422. | 2823.1 |
| #2 | 5424.6 | 70848. | 2846.0 |

Sample Name: 280-42159-A-49-A  Acquired: 5/18/2013 18:12:25  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **92.996** | **.03744** | **.01611** | **.50338** | **.00353** | **-.00119** | **46.799** | **.00273** |
| Stddev | .00057 | .206 | .00026 | .00031 | .00031 | .00001 | .00163 | .024 | .00010 |
| %RSD | 79.338 | .22171 | .70480 | 1.9492 | .06103 | .28411 | 137.69 | .05148 | 3.7010 |
| #1 | .00112 | 93.142 | .03725 | .01633 | .50360 | .00354 | -.00003 | 46.782 | .00280 |
| #2 | .00031 | 92.850 | .03763 | .01588 | .50317 | .00352 | -.00234 | 46.816 | .00266 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04574** | **.09520** | **.13538** | **138.45** | **5.2340** | **.24838** | **16.490** | **4.2409** | **.00488** |
| Stddev | .00017 | .00026 | .00011 | .40 | .0289 | .00074 | .023 | .0155 | .00013 |
| %RSD | .36086 | .27743 | .08180 | .29039 | .55184 | .29829 | .13778 | .36503 | 2.7543 |
| #1 | .04586 | .09538 | .13546 | 138.73 | 5.2544 | .24890 | 16.506 | 4.2519 | .00478 |
| #2 | .04563 | .09501 | .13530 | 138.16 | 5.2136 | .24785 | 16.474 | 4.2300 | .00497 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.66864** | **.08028** | **3.6481** | **.05434** | **2.0590** | **-.00502** | **.00525** | **1.9016** | **.00704** |
| Stddev | .00379 | .00016 | .0136 | .00018 | .0067 | .00006 | .00160 | .0323 | .00048 |
| %RSD | .56689 | .19875 | .37172 | .32252 | .32614 | 1.2722 | 30.449 | 1.6971 | 6.8512 |
| #1 | .66596 | .08017 | 3.6577 | .05446 | 2.0638 | -.00507 | .00639 | 1.9245 | .00739 |
| #2 | .67132 | .08039 | 3.6385 | .05422 | 2.0543 | -.00498 | .00412 | 1.8788 | .00670 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10081** | **.04575** | **.48406** | **-.00485** | W **-.05091** | **.15450** | **.52627** | **.02277** |
| Stddev | .00009 | .00192 | .00554 | .00124 | .00591 | .00091 | .00202 | .00001 |
| %RSD | .09178 | 4.1973 | 1.1436 | 25.484 | 11.615 | .58707 | .38426 | .03505 |
| #1 | .10088 | .04439 | .48014 | -.00572 | -.04673 | .15514 | .52770 | .02277 |
| #2 | .10075 | .04711 | .48797 | -.00397 | -.05509 | .15386 | .52484 | .02278 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6198.9** | **76793.** | **3349.3** |
| Stddev | 8.1 | 242. | 13.9 |
| %RSD | .13036 | .31514 | .41443 |
| #1 | 6193.2 | 76622. | 3359.2 |
| #2 | 6204.6 | 76964. | 3339.5 |

Sample Name: 280-42159-A-50-A  Acquired: 5/18/2013 18:14:49  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **54.442** | **.02678** | **.05096** | **.34274** | **.00232** | **-.00514** | W **1289.2** | **.00235** |
| Stddev | .00009 | .293 | .00025 | .00062 | .00065 | .00005 | .00013 | 7.1 | .00008 |
| %RSD | 20.353 | .53742 | .94395 | 1.2264 | .19081 | 2.2775 | 2.5073 | .55267 | 3.4063 |
| #1 | .00049 | 54.235 | .02661 | .05140 | .34228 | .00229 | -.00505 | 1294.3 | .00240 |
| #2 | .00037 | 54.649 | .02696 | .05052 | .34321 | .00236 | -.00523 | 1284.2 | .00229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03827** | **.09639** | **.48692** | **112.63** | **9.8692** | **.12544** | **52.301** | **5.4854** | **.00973** |
| Stddev | .00011 | .00007 | .00201 | .60 | .0820 | .00127 | .154 | .0264 | .00031 |
| %RSD | .29224 | .06979 | .41345 | .53701 | .83059 | 1.0092 | .29362 | .48089 | 3.1950 |
| #1 | .03835 | .09634 | .48550 | 113.06 | 9.8112 | .12454 | 52.192 | 5.4667 | .00951 |
| #2 | .03819 | .09644 | .48835 | 112.21 | 9.9272 | .12633 | 52.409 | 5.5040 | .00995 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2082** | **.11682** | **3.9644** | **.22894** | **10.406** | **.02409** | **.00253** | **2.6036** | **.00927** |
| Stddev | .0161 | .00039 | .0001 | .00054 | .010 | .00014 | .00257 | .0160 | .00056 |
| %RSD | .73004 | .33520 | .00302 | .23588 | .09568 | .58654 | 101.56 | .61362 | 6.0921 |
| #1 | 2.2196 | .11655 | 3.9645 | .22855 | 10.399 | .02419 | .00071 | 2.6149 | .00887 |
| #2 | 2.1968 | .11710 | 3.9643 | .22932 | 10.413 | .02399 | .00435 | 2.5923 | .00967 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8605** | **.04101** | **.38486** | **-.00372** | F **-.11095** | **.30727** | **.70840** | **.03427** |
| Stddev | .0133 | .00028 | .00031 | .00028 | .01698 | .00202 | .00113 | .00136 |
| %RSD | .71404 | .68578 | .08033 | 7.5140 | 15.301 | .65769 | .15934 | 3.9606 |
| #1 | 1.8511 | .04121 | .38464 | -.00391 | -.09895 | .30584 | .70761 | .03331 |
| #2 | 1.8699 | .04081 | .38508 | -.00352 | -.12296 | .30870 | .70920 | .03523 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5339.2** | **68230.** | **3034.0** |
| Stddev | 26.9 | 16. | 9.9 |
| %RSD | .50353 | .02342 | .32683 |
| #1 | 5358.2 | 68219. | 3041.0 |
| #2 | 5320.2 | 68241. | 3027.0 |

Sample Name: 280-42159-A-51-A  Acquired: 5/18/2013 18:17:53  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **77.765** | **.02917** | **.01503** | **.45871** | **.00258** | **-.00023** | **19.494** | **.00419** |
| Stddev | .00006 | .279 | .00078 | .00039 | .00154 | .00005 | .00064 | .005 | .00008 |
| %RSD | 9.0172 | .35830 | 2.6857 | 2.5660 | .33666 | 1.9680 | 271.45 | .02407 | 1.8529 |
| #1 | .00069 | 77.568 | .02972 | .01476 | .45762 | .00255 | .00022 | 19.497 | .00413 |
| #2 | .00061 | 77.962 | .02861 | .01531 | .45980 | .00262 | -.00068 | 19.490 | .00424 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03845** | **.08453** | **.12735** | **120.56** | **4.6950** | **.20906** | **17.267** | **3.8229** | **.00607** |
| Stddev | .00012 | .00035 | .00071 | .30 | .0673 | .00122 | .181 | .0392 | .00044 |
| %RSD | .30867 | .41001 | .55642 | .24753 | 1.4325 | .58331 | 1.0476 | 1.0249 | 7.2330 |
| #1 | .03837 | .08477 | .12785 | 120.35 | 4.7426 | .20819 | 17.395 | 3.8506 | .00638 |
| #2 | .03853 | .08428 | .12685 | 120.77 | 4.6474 | .20992 | 17.139 | 3.7952 | .00576 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64826** | **.07219** | **3.2033** | **.05131** | **1.5217** | **-.00122** | **.00320** | **1.9140** | **.00791** |
| Stddev | .00055 | .00012 | .0051 | .00092 | .0005 | .00245 | .00224 | .0097 | .00088 |
| %RSD | .08484 | .16554 | .16028 | 1.8026 | .03210 | 201.02 | 69.923 | .50843 | 11.098 |
| #1 | .64865 | .07211 | 3.1997 | .05196 | 1.5214 | -.00295 | .00162 | 1.9071 | .00853 |
| #2 | .64787 | .07228 | 3.2069 | .05065 | 1.5221 | .00051 | .00478 | 1.9209 | .00729 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04571** | **.04441** | **.51425** | **-.00294** | W **-.08003** | **.13905** | **.55236** | **.01929** |
| Stddev | .00002 | .00366 | .00163 | .00141 | .00808 | .00150 | .00608 | .00007 |
| %RSD | .04676 | 8.2379 | .31782 | 47.774 | 10.090 | 1.0753 | 1.1004 | .37951 |
| #1 | .04569 | .04699 | .51541 | -.00195 | -.08574 | .14011 | .55666 | .01924 |
| #2 | .04572 | .04182 | .51310 | -.00393 | -.07432 | .13800 | .54806 | .01934 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6097.4** | **75537.** | **3315.6** |
| Stddev | 29.6 | 311. | 11.7 |
| %RSD | .48469 | .41225 | .35318 |
| #1 | 6118.3 | 75316. | 3323.9 |
| #2 | 6076.5 | 75757. | 3307.3 |

Sample Name: 280-42159-A-52-A  Acquired: 5/18/2013 18:20:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **32.564** | **.01767** | **.02050** | **.12108** | **.00135** | **.00297** | **284.08** | **.00045** |
| Stddev | .00009 | .066 | .00034 | .00029 | .00072 | .00003 | .00057 | 1.30 | .00015 |
| %RSD | 528.96 | .20188 | 1.8973 | 1.4019 | .59764 | 2.2416 | 19.156 | .45636 | 34.516 |
| #1 | .00009 | 32.610 | .01791 | .02070 | .12159 | .00137 | .00337 | 284.99 | .00034 |
| #2 | -.00005 | 32.517 | .01743 | .02030 | .12057 | .00133 | .00256 | 283.16 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02714** | **.04149** | **.18106** | **65.524** | **5.2659** | **.07514** | **22.728** | **2.0606** | **.00045** |
| Stddev | .00003 | .00013 | .00061 | .722 | .0318 | .00025 | .024 | .0031 | .00005 |
| %RSD | .12208 | .31691 | .33518 | 1.1022 | .60437 | .33068 | .10514 | .14798 | 11.328 |
| #1 | .02712 | .04158 | .18149 | 66.035 | 5.2884 | .07496 | 22.745 | 2.0628 | .00049 |
| #2 | .02716 | .04139 | .18063 | 65.014 | 5.2434 | .07531 | 22.711 | 2.0584 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.69631** | **.06035** | **2.0555** | **.07861** | **1.4634** | **.01641** | **-.00003** | **1.6083** | **.00396** |
| Stddev | .02138 | .00037 | .0027 | .00008 | .0057 | .00085 | .00249 | .0274 | .00086 |
| %RSD | 3.0701 | .62118 | .13041 | .10141 | .39297 | 5.1605 | 7438.8 | 1.7058 | 21.829 |
| #1 | .71143 | .06008 | 2.0536 | .07867 | 1.4593 | .01701 | -.00179 | 1.5889 | .00334 |
| #2 | .68119 | .06061 | 2.0574 | .07855 | 1.4675 | .01581 | .00173 | 1.6277 | .00457 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37095** | **.01987** | **.21362** | **.00088** | W **-.05696** | **.07292** | **.23003** | **.02063** |
| Stddev | .00153 | .00085 | .00295 | .00011 | .02806 | .00016 | .00100 | .00213 |
| %RSD | .41176 | 4.2581 | 1.3795 | 13.051 | 49.270 | .21667 | .43542 | 10.329 |
| #1 | .37203 | .02047 | .21570 | .00080 | -.07680 | .07280 | .23074 | .01912 |
| #2 | .36987 | .01927 | .21153 | .00096 | -.03712 | .07303 | .22933 | .02213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5646.6** | **70818.** | **3043.5** |
| Stddev | 18.0 | 10. | 17.6 |
| %RSD | .31938 | .01343 | .57704 |
| #1 | 5633.9 | 70811. | 3031.1 |
| #2 | 5659.4 | 70824. | 3055.9 |

Sample Name: 280-42159-A-53-A  Acquired: 5/18/2013 18:22:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174366 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **65.604** | **.03024** | **.02542** | **.42070** | **.00278** | **-.00144** | **82.849** | **.00530** |
| Stddev | .00038 | .096 | .00276 | .00003 | .00019 | .00000 | .00216 | .030 | .00001 |
| %RSD | 74.688 | .14614 | 9.1362 | .12672 | .04626 | .06114 | 149.86 | .03669 | .10102 |
| #1 | .00024 | 65.671 | .02828 | .02545 | .42057 | .00278 | -.00297 | 82.871 | .00529 |
| #2 | .00078 | 65.536 | .03219 | .02540 | .42084 | .00278 | .00009 | 82.828 | .00530 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04264** | **.07417** | **.27567** | **116.41** | **6.8299** | **.14607** | **21.849** | **5.0357** | **.00232** |
| Stddev | .00026 | .00017 | .00017 | .50 | .0236 | .00073 | .031 | .0132 | .00005 |
| %RSD | .61697 | .23165 | .06321 | .43117 | .34612 | .49658 | .14191 | .26105 | 2.1031 |
| #1 | .04282 | .07430 | .27555 | 116.77 | 6.8131 | .14556 | 21.828 | 5.0450 | .00228 |
| #2 | .04245 | .07405 | .27580 | 116.06 | 6.8466 | .14658 | 21.871 | 5.0264 | .00235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.60909** | **.08488** | **3.9739** | **.10198** | **3.2888** | **-.00144** | **.00247** | **1.9442** | **.00940** |
| Stddev | .00023 | .00049 | .0112 | .00226 | .0051 | .00135 | .00395 | .0073 | .00032 |
| %RSD | .03798 | .58234 | .28074 | 2.2144 | .15603 | 93.523 | 159.59 | .37529 | 3.4318 |
| #1 | .60892 | .08523 | 3.9817 | .10358 | 3.2924 | -.00239 | -.00032 | 1.9390 | .00917 |
| #2 | .60925 | .08453 | 3.9660 | .10038 | 3.2852 | -.00049 | .00527 | 1.9493 | .00963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17556** | **.03619** | **.38876** | **-.00235** | W **-.06823** | **.13044** | **1.0547** | **.01892** |
| Stddev | .00016 | .00003 | .00143 | .00059 | .02630 | .00039 | .0034 | .00112 |
| %RSD | .08866 | .08642 | .36793 | 25.097 | 38.540 | .30177 | .32552 | 5.8989 |
| #1 | .17545 | .03621 | .38775 | -.00276 | -.04963 | .13016 | 1.0571 | .01971 |
| #2 | .17567 | .03617 | .38977 | -.00193 | -.08682 | .13072 | 1.0523 | .01813 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6000.1** | **74984.** | **3260.7** |
| Stddev | 7.6 | 132. | 4.2 |
| %RSD | .12637 | .17631 | .13027 |
| #1 | 6005.4 | 75077. | 3263.7 |
| #2 | 5994.7 | 74890. | 3257.7 |

Sample Name: ICIS Acquired: 5/21/2013 11:55:41 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00250** | **.00049** | **-.03215** | **-.00059** | **.00029** | **.01229** | **.00074** | **-.00071** | **.00939** | **.00049** | **-.00035** | **-.00085** |
| Stddev | .00004 | .00001 | .00068 | .00008 | .00013 | .00143 | .00038 | .00027 | .00031 | .00012 | .00010 | .00013 |
| %RSD | 1.7073 | 2.0973 | 2.1131 | 13.184 | 43.777 | 11.621 | 51.549 | 37.326 | 3.2665 | 24.270 | 27.554 | 15.006 |
| #1 | -.00247 | .00049 | -.03263 | -.00064 | .00020 | .01128 | .00101 | -.00052 | .00961 | .00041 | -.00042 | -.00076 |
| #2 | -.00253 | .00048 | -.03167 | -.00053 | .00038 | .01329 | .00047 | -.00090 | .00918 | .00057 | -.00028 | -.00094 |

| Elem | Cu3247 | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00164** | **.00041** | **.00188** | **.00254** | **-.00389** | **-.00006** | **-.00012** | **.00002** | **.00453** | **-.00204** | **-.00072** | **-.00007** |
| Stddev | .00005 | .00020 | .00034 | .00108 | .00254 | .00001 | .00000 | .00014 | .00053 | .00091 | .00033 | .00009 |
| %RSD | 3.3221 | 48.565 | 18.252 | 42.741 | 65.239 | 18.019 | 2.5576 | 712.59 | 11.619 | 44.407 | 45.859 | 116.52 |
| #1 | .00161 | .00027 | .00164 | .00330 | -.00209 | -.00005 | -.00012 | .00012 | .00491 | -.00140 | -.00096 | -.00001 |
| #2 | .00168 | .00055 | .00212 | .00177 | -.00568 | -.00007 | -.00012 | -.00008 | .00416 | -.00269 | -.00049 | -.00014 |

| Elem | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00127** | **-.00054** | **-.00046** | **-.00015** | **.00156** | **-.00006** | **-.00350** | **.00002** | **-.00028** | **-.00053** | **.00042** | **.00036** |
| Stddev | .00006 | .00001 | .00013 | .00015 | .00034 | .00004 | .00003 | .00001 | .00004 | .00001 | .00008 | .00002 |
| %RSD | 4.8213 | 2.1447 | 28.352 | 100.81 | 21.850 | 71.250 | .84252 | 52.671 | 15.863 | 1.2279 | 18.675 | 5.0766 |
| #1 | .00132 | -.00055 | -.00037 | -.00004 | .00180 | -.00003 | -.00348 | .00002 | -.00025 | -.00054 | .00048 | .00037 |
| #2 | .00123 | -.00053 | -.00055 | -.00025 | .00132 | -.00008 | -.00352 | .00001 | -.00032 | -.00053 | .00037 | .00035 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **-.00001** | **-.00265** |
| Stddev | .00001 | .00108 |
| %RSD | 71.748 | 40.651 |
| #1 | -.00001 | -.00341 |
| #2 | -.00002 | -.00189 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6743.3** | **91256.** | **5464.0** |
| Stddev | 16.2 | 681. | 108.6 |
| %RSD | .24008 | .74675 | 1.9873 |
| #1 | 6731.8 | 90774. | 5387.2 |
| #2 | 6754.7 | 91738. | 5540.7 |

Sample Name: IC1 Acquired: 5/21/2013 11:58:12 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.19221** | **.25967** | **.12738** | **.32348** | **4.1156** | **7.7261** | **2.0819** | **1.5633** | **.88792** | **1.1413** | **.26931** | **.77622** | **5.2388** |
| Stddev | .00309 | .00067 | .00004 | .00003 | .0917 | .1530 | .0360 | .0004 | .00098 | .0016 | .00479 | .01561 | .0839 |
| %RSD | 1.6095 | .25767 | .03413 | .00904 | 2.2276 | 1.9800 | 1.7271 | .02751 | .11063 | .13757 | 1.7804 | 2.0109 | 1.6018 |
| #1 | .19440 | .25920 | .12741 | .32346 | 4.0507 | 7.6179 | 2.0565 | 1.5630 | .88722 | 1.1402 | .27270 | .76518 | 5.1794 |
| #2 | .19002 | .26014 | .12735 | .32350 | 4.1804 | 7.8342 | 2.1073 | 1.5637 | .88861 | 1.1424 | .26592 | .78725 | 5.2981 |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2.2680** | **.73454** | **1.0183** | **.60133** | **1.7368** | **.75705** | **.09538** | **.46754** | **.20979** | **.10903** | **.43401** | **.29872** | **8.7054** |
| Stddev | .0418 | .01287 | .0165 | .00118 | .0331 | .00145 | .00009 | .00117 | .00030 | .00002 | .00744 | .00000 | .1343 |
| %RSD | 1.8416 | 1.7515 | 1.6220 | .19642 | 1.9076 | .19157 | .08962 | .25105 | .14105 | .01830 | 1.7131 | .00060 | 1.5425 |
| #1 | 2.2385 | .74363 | 1.0300 | .60049 | 1.7134 | .75603 | .09544 | .46671 | .21000 | .10905 | .42875 | .29872 | 8.6104 |
| #2 | 2.2975 | .72544 | 1.0067 | .60216 | 1.7602 | .75808 | .09532 | .46837 | .20958 | .10902 | .43927 | .29872 | 8.8003 |

| Elem | Ti3349 | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.28448** | **.22404** | **.19211** | **.03404** | **.35943** |
| Stddev | .00445 | .00001 | .00344 | .00063 | .00768 |
| %RSD | 1.5650 | .00248 | 1.7912 | 1.8363 | 2.1364 |
| #1 | .28763 | .22404 | .19454 | .03448 | .35400 |
| #2 | .28133 | .22403 | .18968 | .03360 | .36486 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6580.6** | **88553.** | **5596.4** |
| Stddev | 7.7 | 1216. | 51.1 |
| %RSD | .11709 | 1.3729 | .91367 |
| #1 | 6586.1 | 87693. | 5632.5 |
| #2 | 6575.2 | 89413. | 5560.2 |

Sample Name: IC2 Acquired: 5/21/2013 12:00:26 Type: Cal
Method: 6500_026(v10) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5.4110** | **.23522** | **.66966** | **2.7590** | **.35491** | **.43763** | **.09039** |
| Stddev | .0243 | .00040 | .00115 | .0132 | .00043 | .00138 | .00009 |
| %RSD | .44946 | .17211 | .17151 | .47831 | .12256 | .31487 | .09769 |
| | | | | | | | |
| #1 | 5.3938 | .23550 | .66885 | 2.7497 | .35521 | .43666 | .09033 |
| #2 | 5.4282 | .23493 | .67047 | 2.7683 | .35460 | .43860 | .09045 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6325.9** | **85890.** | **5564.7** |
| Stddev | 10.5 | 42. | 23.8 |
| %RSD | .16677 | .04879 | .42806 |
| | | | |
| #1 | 6318.4 | 85861. | 5581.5 |
| #2 | 6333.3 | 85920. | 5547.8 |

Sample Name: S1-2058324 Acquired: 5/21/2013 12:02:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0110** | **.99487** | **1.9886** | **.98883** | **.99060** | **.98217** | **-.00314** | **9.8724** | **1.0004** | **1.0030** | **.99429** | **.99784** | **4.9562** |
| Stddev | .0016 | .00317 | .0046 | .00290 | .00106 | .00291 | .00115 | .0226 | .0033 | .0031 | .00201 | .00117 | .0127 |
| %RSD | .15734 | .31870 | .23195 | .29320 | .10672 | .29634 | 36.488 | .22853 | .32764 | .30926 | .20176 | .11770 | .25679 |
| #1 | 1.0122 | .99262 | 1.9853 | .98678 | .99134 | .98423 | -.00233 | 9.8883 | .99808 | 1.0008 | .99287 | .99867 | 4.9652 |
| #2 | 1.0099 | .99711 | 1.9918 | .99088 | .98985 | .98012 | -.00395 | 9.8564 | 1.0027 | 1.0052 | .99571 | .99701 | 4.9472 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **98.186** | **1.9663** | **40.050** | **1.0077** | **.99085** | **9.9760** | **10.493** | **.99575** | **1.9735** | **2.0042** | **-.00044** | **2.0010** | **1.9706** |
| Stddev | .415 | .0062 | .124 | .0021 | .00194 | .0671 | .153 | .00376 | .0044 | .0060 | .00074 | .0043 | .0048 |
| %RSD | .42225 | .31659 | .30938 | .20793 | .19620 | .67265 | 1.4626 | .37730 | .22155 | .29688 | 168.46 | .21312 | .24153 |
| #1 | 98.479 | 1.9707 | 40.138 | 1.0092 | .98948 | 10.023 | 10.601 | .99309 | 1.9704 | 2.0000 | -.00096 | 1.9979 | 1.9672 |
| #2 | 97.892 | 1.9619 | 39.963 | 1.0062 | .99223 | 9.9285 | 10.384 | .99840 | 1.9766 | 2.0084 | .00008 | 2.0040 | 1.9739 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.8520** | **1.9866** | **.97806** | **.00212** | **1.0090** | **1.9953** | **.02939** | **.99923** | **1.0061** | **.99434** |
| Stddev | .0040 | .0060 | .00611 | .00218 | .0015 | .0078 | .00823 | .00353 | .0057 | .00008 |
| %RSD | .04095 | .30183 | .62502 | 103.08 | .15034 | .39141 | 28.008 | .35342 | .56772 | .00761 |
| #1 | 9.8491 | 1.9824 | .98238 | .00366 | 1.0101 | 1.9898 | .02357 | 1.0017 | 1.0102 | .99429 |
| #2 | 9.8548 | 1.9909 | .97374 | .00057 | 1.0079 | 2.0009 | .03520 | .99673 | 1.0021 | .99440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6548.4** | **88059.** | **5652.6** |
| Stddev | 36.5 | 277. | 15.2 |
| %RSD | .55677 | .31444 | .26835 |
| #1 | 6574.2 | 87864. | 5641.8 |
| #2 | 6522.7 | 88255. | 5663.3 |

Sample Name: S2-2058326 Acquired: 5/21/2013 12:05:10 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00571** | **100.42** | **.00132** | **.00520** | **.00153** | **.00066** | **2.0013** | **.05374** | **-.00093** | **.00426** | **.00008** | **.00643** | **100.63** |
| Stddev | .00003 | 1.31 | .00249 | .00034 | .00012 | .00008 | .0088 | .00075 | .00004 | .00016 | .00007 | .00024 | 1.58 |
| %RSD | .60802 | 1.3075 | 188.12 | 6.4439 | 8.1724 | 12.500 | .43712 | 1.4011 | 4.3974 | 3.6754 | 92.278 | 3.8036 | 1.5727 |
| #1 | .00568 | 101.35 | -.00044 | .00544 | .00144 | .00072 | 2.0075 | .05427 | -.00090 | .00437 | .00013 | .00660 | 101.75 |
| #2 | .00573 | 99.494 | .00309 | .00496 | .00162 | .00060 | 1.9951 | .05320 | -.00096 | .00415 | .00003 | .00626 | 99.513 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31204** | **.00259** | **.01668** | **-.00032** | **-.00234** | **497.07** | **.00258** | **.01206** | **.00258** | **10.059** | **.00416** | **.00426** | **.02007** |
| Stddev | .02995 | .00039 | .00009 | .00004 | .00005 | 7.08 | .00019 | .00185 | .00144 | .053 | .00346 | .00650 | .00152 |
| %RSD | 9.5996 | 15.105 | .53944 | 11.484 | 2.1820 | 1.4240 | 7.4092 | 15.304 | 55.839 | .52267 | 83.026 | 152.37 | 7.5743 |
| #1 | .33322 | .00287 | .01662 | -.00035 | -.00230 | 502.08 | .00244 | .01076 | .00360 | 10.096 | .00660 | .00886 | .02114 |
| #2 | .29086 | .00231 | .01675 | -.00030 | -.00237 | 492.07 | .00271 | .01337 | .00156 | 10.022 | .00172 | -.00033 | .01899 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00409** | **.00144** | **10.228** | **.00457** | **-.00271** | **20.336** | **-.00004** | **.00857** | **-.05654** |
| Stddev | .00034 | .00002 | .035 | .00032 | .00067 | .068 | .00016 | .00041 | .00811 |
| %RSD | 8.3876 | 1.2093 | .34521 | 7.0780 | 24.642 | .33516 | 366.30 | 4.8059 | 14.349 |
| #1 | .00433 | .00143 | 10.203 | .00480 | -.00318 | 20.288 | -.00016 | .00886 | -.05081 |
| #2 | .00385 | .00145 | 10.253 | .00434 | -.00224 | 20.384 | .00007 | .00828 | -.06228 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6312.3** | **85015.** | **5610.0** |
| Stddev | 17.2 | 537. | 24.8 |
| %RSD | .27190 | .63183 | .44137 |
| #1 | 6300.1 | 85395. | 5592.5 |
| #2 | 6324.4 | 84636. | 5627.5 |

Sample Name: ICVH-2050069 Acquired: 5/21/2013 12:07:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00139** | **39.659** | **.00346** | **.00191** | **.00251** | **-.00020** | **.50915** | **-.00148** | **-.00011** | **.00150** | **.00016** | **.00135** | **79.397** |
| Stddev | .00021 | .314 | .00049 | .00016 | .00016 | .00002 | .00039 | .00014 | .00005 | .00005 | .00008 | .00025 | .649 |
| %RSD | 15.076 | .79095 | 14.222 | 8.3351 | 6.3982 | 8.1387 | .07630 | 9.6526 | 45.837 | 3.2575 | 51.400 | 18.351 | .81790 |
| #1 | .00124 | 39.881 | .00311 | .00180 | .00263 | -.00021 | .50887 | -.00138 | -.00014 | .00146 | .00022 | .00118 | 79.857 |
| #2 | .00153 | 39.438 | .00381 | .00202 | .00240 | -.00019 | .50942 | -.00158 | -.00007 | .00153 | .00010 | .00153 | 78.938 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06575** | **-.00111** | **-.01259** | **.00030** | **-.00127** | **40.854** | **.00102** | **.00506** | **.00009** | **3.7982** | **-.00085** | **.00093** | **.00312** |
| Stddev | .00702 | .00163 | .00265 | .00010 | .00023 | .377 | .00028 | .00115 | .00081 | .0126 | .00102 | .00601 | .00183 |
| %RSD | 10.682 | 146.13 | 21.065 | 32.569 | 17.993 | .92263 | 27.306 | 22.643 | 863.76 | .33212 | 119.46 | 646.59 | 58.722 |
| #1 | .07072 | .00004 | -.01446 | .00023 | -.00111 | 41.120 | .00082 | .00587 | -.00048 | 3.7893 | -.00013 | -.00332 | .00442 |
| #2 | .06078 | -.00227 | -.01071 | .00037 | -.00143 | 40.587 | .00121 | .00425 | .00066 | 3.8072 | -.00157 | .00518 | .00182 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.00013** | **2.9655** | **.00118** | **-.00012** | **5.0781** | **.00021** | **.00396** | **-.01603** |
| Stddev | .00040 | .00009 | .0098 | .00011 | .00009 | .0158 | .00063 | .00033 | .00230 |
| %RSD | 73.893 | 73.238 | .33010 | 9.7246 | 76.630 | .31131 | 291.76 | 8.3703 | 14.359 |
| #1 | .00083 | .00006 | 2.9586 | .00110 | -.00006 | 5.0893 | .00066 | .00419 | -.01440 |
| #2 | .00026 | .00019 | 2.9725 | .00126 | -.00019 | 5.0669 | -.00023 | .00372 | -.01766 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6616.3** | **88201.** | **5583.2** |
| Stddev | 10.1 | 388. | 31.8 |
| %RSD | .15279 | .44021 | .56879 |
| #1 | 6609.1 | 87927. | 5560.8 |
| #2 | 6623.4 | 88476. | 5605.7 |

Sample Name: ICV-2050070 Acquired: 5/21/2013 12:11:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25642** | **.25542** | **.24124** | **.24511** | **.24841** | F **.23608** | **-.00095** | **2.0155** | **.25182** | **.25444** | **.25118** | **.24431** |
| Stddev | .00044 | .00100 | .00145 | .00056 | .00156 | .00167 | .00314 | .0021 | .00085 | .00081 | .00075 | .00066 |
| %RSD | .16973 | .38989 | .60282 | .22882 | .62830 | .70841 | 330.83 | .10172 | .33946 | .31777 | .29820 | .26861 |
| #1 | .25673 | .25612 | .24021 | .24551 | .24730 | .23490 | -.00317 | 2.0141 | .25242 | .25501 | .25171 | .24478 |
| #2 | .25612 | .25472 | .24227 | .24471 | .24951 | .23726 | .00127 | 2.0170 | .25121 | .25387 | .25065 | .24385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .25000 | | | | | | |
| Range | | | | | | -5.0000% | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25036** | **20.065** | **.25094** | **9.8746** | **.25082** | **.24876** | **2.0225** | **.25325** | **1.9117** | **.25622** | **.00093** | **.25357** |
| Stddev | .00179 | .100 | .00152 | .0374 | .00043 | .00057 | .0044 | .00049 | .0076 | .00187 | .00363 | .00035 |
| %RSD | .71645 | .50064 | .60597 | .37925 | .17271 | .22951 | .21600 | .19167 | .39989 | .72807 | 392.50 | .13694 |
| #1 | .24909 | 19.994 | .24986 | 9.9011 | .25113 | .24916 | 2.0256 | .25360 | 1.9171 | .25754 | -.00164 | .25381 |
| #2 | .25163 | 20.136 | .25202 | 9.8481 | .25051 | .24835 | 2.0194 | .25291 | 1.9063 | .25490 | .00349 | .25332 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48637** | **2.0147** | **.50003** | **.24412** | **-.00041** | **.24899** | **.51758** | **-.00167** | **.24417** | **.25237** | **.24575** |
| Stddev | .00368 | .0066 | .00049 | .00093 | .00314 | .00058 | .00295 | .01410 | .00107 | .00088 | .00101 |
| %RSD | .75569 | .33009 | .09746 | .38086 | 758.60 | .23353 | .56910 | 842.03 | .43933 | .34815 | .41070 |
| #1 | .48897 | 2.0100 | .50038 | .24346 | -.00263 | .24858 | .51966 | -.01164 | .24493 | .25299 | .24646 |
| #2 | .48377 | 2.0195 | .49969 | .24477 | .00180 | .24940 | .51549 | .00829 | .24341 | .25175 | .24504 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6563.7** | **89362.** | **5574.8** |
| Stddev | 9.1 | 161. | 11.5 |
| %RSD | .13826 | .17967 | .20659 |
| #1 | 6557.3 | 89249. | 5582.9 |
| #2 | 6570.1 | 89476. | 5566.6 |

Sample Name: ICVL2062912 Acquired: 5/21/2013 12:13:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01021** | **.10549** | **.01546** | **.09950** | **.01013** | **.00098** | **.11131** | **.21324** | **.00544** | **.01093** | **.01049** | **.01516** |
| Stddev | .00019 | .00060 | .00384 | .00028 | .00040 | .00016 | .00003 | .00466 | .00021 | .00005 | .00016 | .00018 |
| %RSD | 1.8891 | .56872 | 24.822 | .28502 | 3.9484 | 16.383 | .02367 | 2.1863 | 3.8211 | .42072 | 1.5064 | 1.1592 |
| #1 | .01034 | .10591 | .01275 | .09930 | .00985 | .00110 | .11132 | .20994 | .00559 | .01096 | .01060 | .01504 |
| #2 | .01007 | .10506 | .01818 | .09970 | .01041 | .00087 | .11129 | .21653 | .00529 | .01090 | .01038 | .01528 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10735** | **3.1492** | **.01174** | **.21259** | **.01077** | **.02098** | **1.0850** | **.04213** | **2.9378** | **.01070** | **-.00070** | **.01072** |
| Stddev | .00241 | .0201 | .00208 | .00395 | .00012 | .00005 | .0074 | .00046 | .0085 | .00009 | .00182 | .00122 |
| %RSD | 2.2489 | .63762 | 17.736 | 1.8584 | 1.0686 | .24506 | .67852 | 1.1021 | .28981 | .87807 | 259.06 | 11.370 |
| #1 | .10565 | 3.1350 | .01321 | .20979 | .01069 | .02102 | 1.0798 | .04180 | 2.9439 | .01077 | .00058 | .00986 |
| #2 | .10906 | 3.1633 | .01027 | .21538 | .01085 | .02095 | 1.0903 | .04246 | 2.9318 | .01063 | -.00199 | .01158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01550** | **.51894** | **.10575** | **.01022** | **.01591** | **.01087** | **.01700** | F **.08030** | **.01057** | **.02386** | **.01215** |
| Stddev | .00001 | .01161 | .00013 | .00014 | .00093 | .00021 | .00024 | .00391 | .00013 | .00035 | .00134 |
| %RSD | .05742 | 2.2363 | .12465 | 1.3572 | 5.8485 | 1.9436 | 1.4404 | 4.8682 | 1.2583 | 1.4863 | 11.010 |
| #1 | .01551 | .52715 | .10584 | .01032 | .01525 | .01102 | .01717 | .08306 | .01066 | .02412 | .01309 |
| #2 | .01550 | .51074 | .10565 | .01013 | .01656 | .01072 | .01682 | .07754 | .01048 | .02361 | .01120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .06000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6459.6** | **87428.** | **5528.0** |
| Stddev | 8.6 | 128. | 10.5 |
| %RSD | .13245 | .14614 | .19011 |
| #1 | 6453.5 | 87519. | 5535.4 |
| #2 | 6465.6 | 87338. | 5520.6 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 12:16:20 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00256** | **50.873** | **-.00099** | **.00296** | **.00069** | **-.00006** | **1.0052** | **.00126** | **-.00061** | **.00211** | **-.00018** | **.00210** | **50.497** |
| Stddev | .00058 | .302 | .00190 | .00028 | .00043 | .00013 | .0052 | .00061 | .00006 | .00020 | .00015 | .00011 | .022 |
| %RSD | 22.546 | .59379 | 191.48 | 9.6244 | 63.134 | 209.29 | .52080 | 47.951 | 9.0891 | 9.5370 | 87.276 | 5.3522 | .04456 |
| #1 | .00297 | 51.086 | .00035 | .00276 | .00038 | -.00015 | 1.0089 | .00084 | -.00065 | .00225 | -.00007 | .00202 | 50.513 |
| #2 | .00215 | 50.659 | -.00233 | .00316 | .00099 | .00003 | 1.0015 | .00169 | -.00057 | .00197 | -.00029 | .00218 | 50.481 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00355** | **-.00057** | **-.00425** | **-.00067** | **-.00162** | **251.11** | **.00083** | **.00449** | **.00116** | **4.9546** | **.00123** | **.00069** | **.00763** |
| Stddev | .02075 | .00153 | .00258 | .00000 | .00008 | 2.17 | .00017 | .00250 | .00014 | .0042 | .00047 | .00041 | .01577 |
| %RSD | 584.68 | 266.83 | 60.758 | .54740 | 5.1368 | .86579 | 20.224 | 55.615 | 11.771 | .08432 | 38.706 | 59.692 | 206.65 |
| #1 | -.01113 | -.00165 | -.00608 | -.00067 | -.00168 | 252.64 | .00071 | .00626 | .00106 | 4.9516 | .00089 | .00098 | .01878 |
| #2 | .01823 | .00051 | -.00243 | -.00067 | -.00156 | 249.57 | .00095 | .00273 | .00125 | 4.9575 | .00156 | .00040 | -.00352 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00015** | **5.0673** | **.00204** | **-.00204** | **10.091** | **.00017** | **.00369** | **-.02726** |
| Stddev | .00008 | .00003 | .0113 | .00030 | .00112 | .023 | .00006 | .00020 | .00285 |
| %RSD | 13.850 | 17.625 | .22315 | 14.957 | 55.048 | .22821 | 37.015 | 5.4680 | 10.443 |
| #1 | .00054 | .00013 | 5.0753 | .00225 | -.00283 | 10.075 | .00013 | .00355 | -.02524 |
| #2 | .00065 | .00017 | 5.0593 | .00182 | -.00125 | 10.107 | .00022 | .00384 | -.02927 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6442.2** | **85668.** | **5480.3** |
| Stddev | 11.5 | 372. | 62.9 |
| %RSD | .17822 | .43455 | 1.1479 |
| #1 | 6450.4 | 85404. | 5435.8 |
| #2 | 6434.1 | 85931. | 5524.7 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 12:18:46 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51044** | **.50828** | **.99881** | **.49712** | **.50603** | **.49103** | **-.00291** | **5.0805** | **.51111** | **.51543** | **.50591** | **.49882** | **2.5445** |
| Stddev | .00001 | .00165 | .00404 | .00039 | .00125 | .00216 | .00173 | .0024 | .00055 | .00044 | .00061 | .00060 | .0034 |
| %RSD | .00186 | .32519 | .40415 | .07773 | .24628 | .43945 | 59.691 | .04746 | .10707 | .08577 | .12122 | .12071 | .13368 |
| #1 | .51045 | .50945 | .99596 | .49685 | .50691 | .49255 | -.00168 | 5.0822 | .51072 | .51511 | .50548 | .49925 | 2.5469 |
| #2 | .51044 | .50711 | 1.0017 | .49739 | .50515 | .48950 | -.00413 | 5.0788 | .51150 | .51574 | .50635 | .49840 | 2.5421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.318** | **1.0090** | **20.092** | **.50697** | **.50549** | **5.0788** | **.51246** | **.98552** | **1.0316** | **.00188** | **1.0084** | **.99187** | **5.0493** |
| Stddev | .104 | .0005 | .037 | .00070 | .00017 | .0398 | .00105 | .00568 | .0027 | .00020 | .0041 | .00613 | .0022 |
| %RSD | .20715 | .05185 | .18397 | .13764 | .03276 | .78324 | .20579 | .57602 | .26655 | 10.470 | .40721 | .61818 | .04450 |
| #1 | 50.392 | 1.0086 | 20.118 | .50746 | .50537 | 5.1069 | .51171 | .98150 | 1.0297 | .00202 | 1.0055 | .99621 | 5.0508 |
| #2 | 50.244 | 1.0093 | 20.066 | .50647 | .50561 | 5.0506 | .51321 | .98953 | 1.0336 | .00174 | 1.0113 | .98754 | 5.0477 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0188** | **.49561** | **.00108** | **.50825** | **1.0323** | **-.01237** | **.49861** | **.50811** | **.50747** |
| Stddev | .0029 | .00091 | .00007 | .00021 | .0014 | .00944 | .00087 | .00269 | .00326 |
| %RSD | .28310 | .18285 | 6.0513 | .04177 | .13091 | 76.267 | .17383 | .53007 | .64331 |
| #1 | 1.0168 | .49625 | .00113 | .50810 | 1.0314 | -.00570 | .49922 | .51001 | .50516 |
| #2 | 1.0208 | .49497 | .00103 | .50840 | 1.0333 | -.01904 | .49800 | .50621 | .50978 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6572.9** | **88988.** | **5583.7** |
| Stddev | 19.3 | 108. | 26.8 |
| %RSD | .29352 | .12170 | .48025 |
| #1 | 6559.3 | 88912. | 5564.8 |
| #2 | 6586.5 | 89065. | 5602.7 |

Sample Name: ICB Acquired: 5/21/2013 12:21:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00011** | **.00247** | **.00119** | W **.00063** | **-.00008** | **.00078** | **.00685** | **.00020** | **.00004** | **-.00007** |
| Stddev | .00037 | .00037 | .00174 | .00013 | .00024 | .00003 | .00040 | .00038 | .00020 | .00013 | .00005 |
| %RSD | 314.11 | 334.98 | 70.567 | 10.552 | 37.342 | 41.316 | 51.193 | 5.5895 | 98.756 | 302.69 | 72.744 |
| #1 | -.00014 | .00037 | .00124 | .00110 | .00080 | -.00006 | .00107 | .00658 | .00006 | .00014 | -.00010 |
| #2 | .00038 | -.00015 | .00370 | .00128 | .00046 | -.00010 | .00050 | .00713 | .00034 | -.00005 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00058 | | | | | | |
| Low Limit | | | | | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00094** | **.00014** | **.01870** | **-.00114** | **.00461** | **.00017** | **.00042** | **.04687** | **-.00025** | **-.00016** | **.00079** |
| Stddev | .00005 | .00114 | .03395 | .00019 | .00092 | .00000 | .00007 | .00283 | .00014 | .00126 | .00019 |
| %RSD | 5.7820 | 847.26 | 181.55 | 17.042 | 19.863 | 2.3990 | 16.915 | 6.0320 | 55.079 | 806.40 | 23.385 |
| #1 | -.00097 | -.00067 | -.00531 | -.00100 | .00526 | .00017 | .00037 | .04887 | -.00035 | -.00105 | .00092 |
| #2 | -.00090 | .00094 | .04270 | -.00127 | .00396 | .00016 | .00047 | .04487 | -.00015 | .00074 | .00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00353** | W **.00402** | **-.00345** | **.01459** | **-.00038** | **.00008** | **.00025** | **.00037** | **.00090** | **.01110** | **.00009** |
| Stddev | .00760 | .00163 | .00216 | .00869 | .00003 | .00000 | .00096 | .00012 | .00015 | .02020 | .00067 |
| %RSD | 215.25 | 40.491 | 62.783 | 59.541 | 7.8217 | 4.7279 | 386.88 | 33.529 | 17.140 | 181.93 | 709.21 |
| #1 | .00890 | .00518 | -.00192 | .00845 | -.00041 | .00007 | -.00043 | .00028 | .00101 | .02539 | -.00038 |
| #2 | -.00184 | .00287 | -.00498 | .02073 | -.00036 | .00008 | .00093 | .00046 | .00079 | -.00318 | .00057 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00318** | **.00070** |
| Stddev | .00031 | .00236 |
| %RSD | 9.7030 | 339.48 |
| #1 | .00339 | .00236 |
| #2 | .00296 | -.00097 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6596.9** | **89777.** | **5638.8** |
| Stddev | 10.2 | 194. | 65.4 |
| %RSD | .15508 | .21591 | 1.1604 |
| #1 | 6589.7 | 89640. | 5592.5 |
| #2 | 6604.1 | 89914. | 5685.0 |

Sample Name: CRI-2062913 Acquired: 5/21/2013 12:23:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01095** | **.10626** | **.01116** | **.09892** | **.00534** | **.00099** | **.11838** | **.21143** | **.00539** | **.00548** | **.01044** |
| Stddev | .00042 | .00029 | .00016 | .00019 | .00039 | .00007 | .00176 | .00328 | .00007 | .00001 | .00002 |
| %RSD | 3.8569 | .27045 | 1.3911 | .18727 | 7.3653 | 7.1668 | 1.4893 | 1.5513 | 1.3167 | .27270 | .22809 |
| #1 | .01125 | .10647 | .01105 | .09905 | .00562 | .00104 | .11714 | .21375 | .00534 | .00549 | .01042 |
| #2 | .01065 | .10606 | .01127 | .09879 | .00506 | .00094 | .11963 | .20912 | .00544 | .00547 | .01045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01002** | **.03092** | **1.0505** | **.00998** | **.21365** | **.00328** | **.01041** | **1.0629** | **.01068** | **.99520** | W **.00417** |
| Stddev | .00028 | .00304 | .0046 | .00026 | .00039 | .00002 | .00033 | .0268 | .00031 | .00028 | .00075 |
| %RSD | 2.7502 | 9.8435 | .43925 | 2.6273 | .18160 | .71030 | 3.1377 | 2.5177 | 2.9046 | .02858 | 18.053 |
| #1 | .00983 | .02877 | 1.0538 | .01017 | .21393 | .00330 | .01065 | 1.0818 | .01046 | .99540 | .00470 |
| #2 | .01022 | .03307 | 1.0472 | .00980 | .21338 | .00326 | .01018 | 1.0440 | .01090 | .99500 | .00364 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | | | | .00300 |
| Range | | | | | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10086** | **.00986** | **.00927** | **.49503** | **.02083** | **.00534** | **.01085** | **.01035** | W **.01212** | W **.07340** | **.00986** |
| Stddev | .00068 | .00177 | .00229 | .00148 | .00036 | .00011 | .00279 | .00031 | .00057 | .03969 | .00054 |
| %RSD | .67024 | 17.924 | 24.673 | .29938 | 1.7270 | 2.0253 | 25.711 | 3.0422 | 4.7402 | 54.073 | 5.4275 |
| #1 | .10134 | .01111 | .00765 | .49608 | .02058 | .00541 | .00888 | .01012 | .01171 | .10147 | .01024 |
| #2 | .10038 | .00861 | .01089 | .49399 | .02109 | .00526 | .01282 | .01057 | .01252 | .04534 | .00948 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| Value | | | | | | | | | .01000 | .06000 | |
| Range | | | | | | | | | 20.000% | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.01335** | **.01070** |
| Stddev | .00001 | .00051 |
| %RSD | .10287 | 4.7408 |
| #1 | .01334 | .01106 |
| #2 | .01336 | .01034 |
| Check ? | Chk Warn | Chk Pass |
| Value | .01000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6748.4** | **91343.** | **5765.0** |
| Stddev | .4 | 93. | 15.2 |
| %RSD | .00576 | .10219 | .26402 |
| #1 | 6748.1 | 91277. | 5754.2 |
| #2 | 6748.7 | 91409. | 5775.8 |

Sample Name: cri-2063003 Acquired: 5/21/2013 12:29:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **-.00012** | **.00194** | **.00077** | **-.00000** | **-.00006** | **.00017** | **.00532** | **.00013** |
| Stddev | .00023 | .00034 | .00139 | .00035 | .00009 | .00008 | .00165 | .00174 | .00002 |
| %RSD | 115.08 | 276.26 | 72.035 | 45.662 | 7425.0 | 132.25 | 993.14 | 32.726 | 15.360 |
| #1 | -.00037 | .00012 | .00095 | .00102 | .00006 | -.00000 | -.00100 | .00409 | .00011 |
| #2 | -.00004 | -.00037 | .00292 | .00052 | -.00006 | -.00012 | .00133 | .00655 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **-.00002** | **-.00066** | **-.00062** | **.01304** | **-.00112** | **.00145** | **.00002** | **.00016** |
| Stddev | .00021 | .00012 | .00029 | .00167 | .02269 | .00122 | .00071 | .00000 | .00008 |
| %RSD | 219.38 | 583.25 | 44.049 | 270.11 | 174.03 | 108.63 | 48.757 | 4.3046 | 49.196 |
| #1 | -.00024 | -.00011 | -.00046 | .00056 | .02908 | -.00198 | .00095 | .00003 | .00021 |
| #2 | .00005 | .00007 | -.00087 | -.00180 | -.00301 | -.00026 | .00195 | .00002 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01173** | **-.00039** | **.00182** | **.01048** | **.00166** | **.00250** | **-.00039** | **.00850** | **.00029** |
| Stddev | .00168 | .00013 | .00005 | .00006 | .00164 | .00039 | .00106 | .01984 | .00007 |
| %RSD | 14.341 | 33.152 | 2.5001 | .59193 | 98.886 | 15.558 | 270.04 | 233.39 | 22.524 |
| #1 | -.01054 | -.00030 | .00185 | .01052 | .00283 | .00223 | -.00114 | .02253 | .00034 |
| #2 | -.01292 | -.00048 | .00179 | .01043 | .00050 | .00278 | .00036 | -.00553 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00037** | **.00011** | **.01947** | **-.02413** | **.00008** | **.01939** | **-.00004** |
| Stddev | .00006 | .00072 | .00026 | .00067 | .02080 | .00052 | .00023 | .00084 |
| %RSD | 286.15 | 193.75 | 230.79 | 3.4470 | 86.194 | 658.20 | 1.2060 | 1911.8 |
| #1 | -.00002 | .00088 | .00029 | .01995 | -.00942 | -.00029 | .01923 | .00055 |
| #2 | .00006 | -.00014 | -.00007 | .01900 | -.03884 | .00044 | .01956 | -.00063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6694.4** | **90203.** | **5656.7** |
| Stddev | 15.3 | 351. | 36.4 |
| %RSD | .22872 | .38906 | .64432 |
| #1 | 6683.5 | 89955. | 5630.9 |
| #2 | 6705.2 | 90451. | 5682.4 |

Sample Name: ICSA-2050073 Acquired: 5/21/2013 12:36:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **510.41** | **.00213** | **-.00051** | **.00019** | **-.00021** | **-.00829** | **482.50** | W **.00080** | **-.00002** | F **.00200** |
| Stddev | .00007 | .20 | .00143 | .00079 | .00003 | .00006 | .00075 | 1.24 | .00028 | .00003 | .00001 |
| %RSD | 11.788 | .03997 | 66.875 | 153.44 | 15.567 | 31.531 | 9.0585 | .25644 | 34.633 | 158.72 | .66622 |
| #1 | -.00054 | 510.27 | .00112 | .00004 | .00021 | -.00025 | -.00882 | 481.63 | .00061 | -.00004 | .00199 |
| #2 | -.00064 | 510.56 | .00314 | -.00107 | .00017 | -.00016 | -.00776 | 483.38 | .00100 | .00000 | .00201 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Fail |
| High Limit | | | | | | | | | .00045 | | .00123 |
| Low Limit | | | | | | | | | -.00045 | | -.00132 |

| Elem | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00380** | **191.93** | **-.04456** | **.00168** | **502.07** | F **.00382** | **-.00127** | W **.15051** | W **.00171** | **-.00283** | **.00139** |
| Stddev | .00011 | .24 | .01747 | .00077 | 2.81 | .00001 | .00012 | .02130 | .00015 | .00137 | .00395 |
| %RSD | 2.7751 | .12423 | 39.212 | 45.763 | .56000 | .18590 | 9.1542 | 14.153 | 8.7023 | 48.475 | 283.99 |
| #1 | .00388 | 191.76 | -.05691 | .00114 | 500.08 | .00382 | -.00119 | .13545 | .00181 | -.00186 | -.00140 |
| #2 | .00373 | 192.10 | -.03220 | .00222 | 504.05 | .00381 | -.00136 | .16558 | .00160 | -.00380 | .00418 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass |
| High Limit | .00272 | | | | | .00051 | | .09160 | .00129 | | |
| Low Limit | -.00272 | | | | | -.00051 | | -.09160 | -.00129 | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.05999** | **-.00231** | **-.00264** | **.00969** | **-.00101** | F **.00221** | F **.02088** | **-.00043** | **.00011** | **-.00030** | F **.00293** |
| Stddev | .00051 | .00137 | .00428 | .01813 | .00109 | .00005 | .00147 | .00042 | .00073 | .01442 | .00022 |
| %RSD | .85171 | 59.270 | 162.20 | 187.13 | 107.98 | 2.2609 | 7.0253 | 97.957 | 639.48 | 4826.2 | 7.5301 |
| #1 | -.05963 | -.00134 | .00039 | -.00313 | -.00024 | .00217 | .01984 | -.00013 | -.00040 | .00990 | .00277 |
| #2 | -.06035 | -.00328 | -.00566 | .02251 | -.00178 | .00224 | .02192 | -.00072 | .00063 | -.01049 | .00308 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | None | Chk Fail |
| High Limit | | | | | | .00060 | .01000 | | | | .00222 |
| Low Limit | | | | | | -.00060 | -.01000 | | | | -.00222 |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.01060** | W **-.00327** |
| Stddev | .00126 | .00194 |
| %RSD | 11.903 | 59.374 |
| #1 | .01149 | -.00190 |
| #2 | .00971 | -.00464 |
| Check ? | Chk Fail | Chk Warn |
| High Limit | .00906 | .00238 |
| Low Limit | -.00906 | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5951.3** | **79239.** | **5510.4** |
| Stddev | 15.0 | 158. | 12.3 |
| %RSD | .25188 | .19961 | .22317 |
| #1 | 5940.7 | 79351. | 5519.1 |
| #2 | 5961.9 | 79128. | 5501.7 |

Sample Name: ICSAB-2050074 Acquired: 5/21/2013 12:39:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1263** | **516.41** | **1.9929** | **1.9017** | **.51688** | **.48494** | **1.0544** | **481.35** | **1.0601** | **.49002** | **.50231** | **.54722** | **194.81** |
| Stddev | .0011 | .13 | .0102 | .0085 | .00044 | .00005 | .0055 | 2.03 | .0058 | .00202 | .00147 | .00190 | .42 |
| %RSD | .09654 | .02471 | .51042 | .44874 | .08450 | .01017 | .52453 | .42162 | .54936 | .41229 | .29211 | .34685 | .21317 |
| #1 | 1.1255 | 516.32 | 1.9857 | 1.8957 | .51719 | .48497 | 1.0504 | 482.79 | 1.0560 | .48859 | .50127 | .54856 | 195.10 |
| #2 | 1.1271 | 516.50 | 2.0001 | 1.9078 | .51657 | .48490 | 1.0583 | 479.92 | 1.0642 | .49145 | .50334 | .54588 | 194.52 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.987** | **1.0490** | **498.40** | **.51328** | **.97852** | **52.052** | **.94944** | **1.9400** | **.97713** | **.97930** | **1.0320** | **4.9133** | **10.388** |
| Stddev | .047 | .0004 | 1.01 | .00114 | .00298 | .179 | .00202 | .0086 | .00612 | .00430 | .0088 | .0285 | .026 |
| %RSD | .09111 | .03628 | .20309 | .22232 | .30415 | .34380 | .21265 | .44246 | .62666 | .43902 | .85071 | .57983 | .25017 |
| #1 | 51.953 | 1.0493 | 499.12 | .51409 | .97642 | 52.179 | .94801 | 1.9340 | .97280 | .97626 | 1.0258 | 4.8932 | 10.370 |
| #2 | 52.020 | 1.0488 | 497.69 | .51247 | .98063 | 51.926 | .95087 | 1.9461 | .98146 | .98234 | 1.0382 | 4.9334 | 10.407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.3674** | **.98427** | **2.1322** | **1.0346** | **8.9970** | **-.01066** | **.51352** | **.98692** | **.99622** |
| Stddev | .0287 | .00054 | .0048 | .0028 | .0417 | .00041 | .00100 | .00489 | .00186 |
| %RSD | .30671 | .05447 | .22490 | .27068 | .46294 | 3.8721 | .19482 | .49500 | .18663 |
| #1 | 9.3471 | .98465 | 2.1355 | 1.0366 | 8.9675 | -.01095 | .51423 | .99038 | .99753 |
| #2 | 9.3878 | .98389 | 2.1288 | 1.0326 | 9.0264 | -.01037 | .51281 | .98347 | .99490 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5861.5** | **78412.** | **5447.2** |
| Stddev | 28.9 | 266. | 4.0 |
| %RSD | .49279 | .33915 | .07335 |
| #1 | 5882.0 | 78224. | 5444.4 |
| #2 | 5841.1 | 78601. | 5450.0 |

Sample Name: LRA-2050194 Acquired: 5/21/2013 12:42:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1020** | **.11414** | **9.3090** | **9.1835** | **11.859** | **.00151** | **-.01694** | **.01445** | **1.9797** | **4.8958** | **9.6685** | **10.014** | **494.96** |
| Stddev | .0110 | .00273 | .0287 | .0208 | .198 | .00004 | .00561 | .00148 | .0048 | .0127 | .0274 | .027 | 5.04 |
| %RSD | .52428 | 2.3941 | .30792 | .22616 | 1.6702 | 2.7914 | 33.139 | 10.256 | .24443 | .26018 | .28361 | .27119 | 1.0193 |
| #1 | 2.0942 | .11607 | 9.3293 | 9.1982 | 11.999 | .00154 | -.02090 | .01340 | 1.9831 | 4.9048 | 9.6879 | 9.9950 | 498.52 |
| #2 | 2.1098 | .11220 | 9.2887 | 9.1688 | 11.719 | .00148 | -.01297 | .01550 | 1.9763 | 4.8868 | 9.6491 | 10.033 | 491.39 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.30883** | **-.00031** | **-.09204** | **9.5202** | **9.5218** | **.04492** | **9.7320** | **-.01737** | **10.046** | **-.05188** | **.01603** | **4.6700** | **46.865** |
| Stddev | .01288 | .00206 | .00064 | .0478 | .0330 | .03522 | .0279 | .00042 | .019 | .00121 | .00085 | .0128 | .248 |
| %RSD | 4.1721 | 662.13 | .69810 | .50265 | .34639 | 78.404 | .28698 | 2.4295 | .18596 | 2.3327 | 5.3283 | .27334 | .52820 |
| #1 | -.31794 | .00115 | -.09250 | 9.5541 | 9.5451 | .06982 | 9.7517 | -.01707 | 10.059 | -.05274 | .01542 | 4.6790 | 47.040 |
| #2 | -.29972 | -.00177 | -.09159 | 9.4864 | 9.4985 | .02002 | 9.7123 | -.01767 | 10.033 | -.05103 | .01663 | 4.6609 | 46.690 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00911** | **9.6809** | **.04227** | **9.7381** | **9.8673** | **.09907** | **9.6011** | **9.3208** | **-.00918** |
| Stddev | .00049 | .0644 | .00733 | .0231 | .0274 | .01198 | .0011 | .0044 | .00036 |
| %RSD | 5.3813 | .66471 | 17.342 | .23704 | .27726 | 12.090 | .01171 | .04703 | 3.9186 |
| #1 | .00946 | 9.6354 | .03708 | 9.7218 | 9.8867 | .09060 | 9.6003 | 9.3177 | -.00893 |
| #2 | .00876 | 9.7264 | .04745 | 9.7545 | 9.8480 | .10754 | 9.6019 | 9.3239 | -.00944 |
| Check ? | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6624.4** | **89926.** | **5670.6** |
| Stddev | 11.6 | 5. | 43.8 |
| %RSD | .17506 | .00535 | .77293 |
| #1 | 6616.2 | 89929. | 5639.6 |
| #2 | 6632.6 | 89923. | 5701.6 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 12:45:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00270** | **48.606** | **.00018** | **.01929** | **.00104** | **-.00012** | **.99609** | **.01081** | **-.00072** | **.00203** | **.00003** | **.00249** | **48.759** |
| Stddev | .00018 | .112 | .00174 | .00135 | .00005 | .00004 | .00375 | .00208 | .00003 | .00001 | .00009 | .00048 | .021 |
| %RSD | 6.4879 | .22967 | 970.53 | 6.9749 | 4.3445 | 36.733 | .37630 | 19.198 | 3.5268 | .44871 | 332.59 | 19.099 | .04292 |
| #1 | .00283 | 48.685 | .00141 | .02025 | .00107 | -.00009 | .99344 | .01228 | -.00070 | .00203 | .00009 | .00282 | 48.744 |
| #2 | .00258 | 48.527 | -.00105 | .01834 | .00101 | -.00015 | .99874 | .00934 | -.00074 | .00204 | -.00004 | .00215 | 48.774 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **-.00108** | **.00648** | **-.00008** | **-.00014** | **241.04** | **.00133** | **.00400** | **-.00012** | **4.9112** | **.00085** | **.00252** | **.04851** |
| Stddev | .03587 | .00128 | .00018 | .00009 | .00016 | .81 | .00030 | .00051 | .00021 | .0118 | .00132 | .00226 | .00666 |
| %RSD | 4687.0 | 118.48 | 2.7979 | 107.27 | 114.66 | .33453 | 22.776 | 12.739 | 173.50 | .24035 | 155.83 | 89.571 | 13.729 |
| #1 | .02613 | -.00018 | .00661 | -.00002 | -.00003 | 241.61 | .00154 | .00436 | .00003 | 4.9028 | -.00009 | .00412 | .05322 |
| #2 | -.02460 | -.00199 | .00635 | -.00014 | -.00025 | 240.47 | .00112 | .00364 | -.00027 | 4.9195 | .00178 | .00092 | .04380 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.00119** | **4.9223** | **.00340** | **.00005** | **9.7534** | **.00062** | **.00448** | **-.02921** |
| Stddev | .00078 | .00004 | .0271 | .00021 | .00083 | .0811 | .00057 | .00021 | .00010 |
| %RSD | 92.250 | 3.5139 | .55076 | 6.2732 | 1794.9 | .83132 | 91.662 | 4.6280 | .34563 |
| #1 | .00029 | .00122 | 4.9032 | .00325 | .00064 | 9.6961 | .00022 | .00462 | -.02928 |
| #2 | .00140 | .00116 | 4.9415 | .00355 | -.00054 | 9.8108 | .00102 | .00433 | -.02914 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6535.1** | **89257.** | **5733.6** |
| Stddev | 18.2 | 185. | 1.1 |
| %RSD | .27889 | .20705 | .01955 |
| #1 | 6548.0 | 89387. | 5732.8 |
| #2 | 6522.2 | 89126. | 5734.3 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 12:47:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50029** | **.49769** | **.97267** | **.49245** | **.49140** | **.47437** | **.00020** | **4.9080** | **.49967** | **.50372** | **.49093** | **.48431** | **2.4417** | **48.544** |
| Stddev | .00065 | .00077 | .00172 | .00125 | .00019 | .00049 | .00042 | .0033 | .00178 | .00142 | .00161 | .00121 | .0120 | .130 |
| %RSD | .12992 | .15518 | .17710 | .25399 | .03900 | .10358 | 206.34 | .06708 | .35641 | .28194 | .32713 | .25049 | .48930 | .26806 |
| #1 | .50075 | .49714 | .97146 | .49157 | .49127 | .47402 | .00050 | 4.9104 | .49841 | .50272 | .48980 | .48517 | 2.4501 | 48.636 |
| #2 | .49983 | .49824 | .97389 | .49334 | .49154 | .47472 | -.00009 | 4.9057 | .50093 | .50473 | .49207 | .48346 | 2.4332 | 48.452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97349** | **19.505** | **.49132** | **.48939** | **4.8886** | **.49782** | **.95317** | **1.0079** | **.00138** | **.98968** | **.96599** | **4.8301** | **.98869** | **.47569** |
| Stddev | .00026 | .051 | .00002 | .00152 | .0218 | .00166 | .00145 | .0023 | .00243 | .00151 | .00258 | .0168 | .00454 | .00075 |
| %RSD | .02643 | .26353 | .00443 | .30996 | .44562 | .33380 | .15222 | .23097 | 176.53 | .15213 | .26709 | .34682 | .45948 | .15677 |
| #1 | .97367 | 19.542 | .49131 | .48831 | 4.9040 | .49665 | .95214 | 1.0063 | .00310 | .99074 | .96417 | 4.8183 | .98548 | .47622 |
| #2 | .97331 | 19.469 | .49134 | .49046 | 4.8732 | .49900 | .95419 | 1.0096 | -.00034 | .98861 | .96782 | 4.8420 | .99190 | .47516 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.49460** | **1.0129** | **.00014** | **.48149** | **.49168** | **.49232** |
| Stddev | .00038 | .00091 | .0047 | .03113 | .00083 | .00015 | .00149 |
| %RSD | 52.328 | .18423 | .46910 | 22219. | .17239 | .03051 | .30192 |
| #1 | .00046 | .49525 | 1.0095 | .02215 | .48207 | .49178 | .49127 |
| #2 | .00099 | .49396 | 1.0162 | -.02187 | .48090 | .49157 | .49337 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6711.7** | **90885.** | **5748.6** |
| Stddev | 21.1 | 69. | 16.3 |
| %RSD | .31455 | .07643 | .28353 |
| #1 | 6726.6 | 90836. | 5737.1 |
| #2 | 6696.8 | 90934. | 5760.1 |

Sample Name: CCB Acquired: 5/21/2013 12:49:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00100** | **.00245** | F **.00768** | **.00017** | **-.00002** | **.00081** | **.00103** | **.00000** | **-.00022** | **-.00020** | **-.00047** |
| Stddev | .00046 | .00026 | .00027 | .00050 | .00036 | .00002 | .00164 | .00231 | .00012 | .00037 | .00007 | .00048 |
| %RSD | 6541.2 | 25.855 | 10.912 | 6.5595 | 213.58 | 144.85 | 202.00 | 223.46 | 57302. | 166.35 | 33.779 | 101.87 |
| #1 | .00033 | .00119 | .00226 | .00803 | .00043 | .00000 | -.00035 | -.00060 | .00009 | -.00048 | -.00025 | -.00013 |
| #2 | -.00032 | .00082 | .00263 | .00732 | -.00009 | -.00003 | .00197 | .00267 | -.00009 | .00004 | -.00015 | -.00082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **.00845** | **.00014** | **.00392** | **.00011** | **.00040** | **.00656** | **-.00032** | **.00215** | **.00003** | **-.00029** | **.00255** |
| Stddev | .00065 | .02481 | .00049 | .00042 | .00006 | .00022 | .00375 | .00040 | .00209 | .00015 | .00064 | .00016 |
| %RSD | 108.91 | 293.46 | 344.76 | 10.776 | 55.117 | 53.730 | 57.194 | 126.08 | 97.137 | 571.79 | 217.46 | 6.3534 |
| #1 | -.00106 | -.00909 | .00049 | .00421 | .00016 | .00025 | .00391 | -.00003 | .00067 | .00013 | .00016 | .00244 |
| #2 | -.00014 | .02599 | -.00020 | .00362 | .00007 | .00056 | .00922 | -.00060 | .00363 | -.00008 | -.00075 | .00267 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **.00791** | **.00016** | **.00004** | **.00004** | **.00035** | **.00030** | **-.00512** | **-.00026** | **.00223** | **-.00046** |
| Stddev | .00269 | .01116 | .00060 | .00005 | .00091 | .00001 | .00003 | .00621 | .00023 | .00008 | .00098 |
| %RSD | 998.67 | 141.18 | 376.15 | 136.88 | 2090.7 | 2.5612 | 10.101 | 121.29 | 87.187 | 3.4446 | 211.89 |
| #1 | -.00217 | .01580 | -.00026 | .00000 | .00069 | .00034 | .00028 | -.00951 | -.00010 | .00218 | -.00116 |
| #2 | .00163 | .00001 | .00058 | .00008 | -.00060 | .00035 | .00032 | -.00073 | -.00042 | .00229 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6702.3** | **89797.** | **5701.6** |
| Stddev | 10.1 | 15. | 41.8 |
| %RSD | .15100 | .01668 | .73365 |
| #1 | 6695.2 | 89786. | 5672.0 |
| #2 | 6709.5 | 89807. | 5731.2 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 12:52:14 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01082** | **.09971** | **.01532** | **.09989** | **.00996** | **.00088** | **.10489** | **.20082** | **.00530** | **.01034** | **.00978** | **.01443** | **.10283** | **2.9342** |
| Stddev | .00008 | .00007 | .00153 | .00008 | .00024 | .00004 | .00091 | .00182 | .00018 | .00006 | .00011 | .00053 | .00112 | .0001 |
| %RSD | .76254 | .07359 | 9.9796 | .08395 | 2.3978 | 4.3932 | .86360 | .90440 | 3.4118 | .62593 | 1.0990 | 3.6825 | 1.0864 | .00424 |
| #1 | .01076 | .09976 | .01424 | .09995 | .01013 | .00086 | .10425 | .20211 | .00543 | .01029 | .00986 | .01481 | .10362 | 2.9341 |
| #2 | .01087 | .09966 | .01640 | .09983 | .00979 | .00091 | .10553 | .19954 | .00518 | .01038 | .00971 | .01406 | .10204 | 2.9343 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01040** | **.20381** | **.01023** | **.01969** | **.97818** | **.04019** | **2.7883** | **.00978** | **.00228** | **.01076** | **.01322** | **.47626** | **.09994** | **.00960** |
| Stddev | .00079 | .00353 | .00004 | .00014 | .00241 | .00012 | .0003 | .00085 | .00021 | .00011 | .00242 | .00942 | .00052 | .00008 |
| %RSD | 7.6185 | 1.7303 | .41599 | .73244 | .24643 | .28687 | .01022 | 8.7169 | 9.1671 | 1.0010 | 18.305 | 1.9777 | .52046 | .83653 |
| #1 | .00984 | .20132 | .01020 | .01959 | .97988 | .04027 | 2.7881 | .01039 | .00213 | .01069 | .01493 | .48292 | .09957 | .00966 |
| #2 | .01096 | .20631 | .01026 | .01980 | .97647 | .04011 | 2.7885 | .00918 | .00243 | .01084 | .01151 | .46960 | .10031 | .00954 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01643** | **.01044** | **.01565** | **.05158** | **.00897** | **.02229** | **.01448** |
| Stddev | .00206 | .00023 | .00052 | .02929 | .00044 | .00018 | .00021 |
| %RSD | 12.556 | 2.2367 | 3.3301 | 56.785 | 4.9051 | .79018 | 1.4293 |
| #1 | .01497 | .01028 | .01601 | .07229 | .00928 | .02217 | .01463 |
| #2 | .01789 | .01061 | .01528 | .03087 | .00866 | .02242 | .01434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6776.7** | **91743.** | **5776.5** |
| Stddev | 8.8 | 324. | 16.1 |
| %RSD | .12913 | .35370 | .27848 |
| #1 | 6770.5 | 91514. | 5765.1 |
| #2 | 6782.9 | 91973. | 5787.9 |

Sample Name: MB 280-174414/1-A Acquired: 5/21/2013 12:54:39 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.01552** | **-.00027** | F **.03199** | **.00026** | **-.00001** | **.00009** | **.06712** | **.00015** |
| Stddev | .00066 | .00024 | .00191 | .00019 | .00046 | .00001 | .00020 | .00498 | .00015 |
| %RSD | 1876.7 | 1.5713 | 702.10 | .57945 | 176.50 | 205.13 | 215.12 | 7.4140 | 99.487 |
| #1 | -.00050 | .01569 | .00108 | .03212 | .00059 | .00000 | .00023 | .06360 | .00025 |
| #2 | .00043 | .01535 | -.00162 | .03186 | -.00007 | -.00001 | -.00005 | .07064 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **-.00004** | **.00453** | **.02043** | **.01110** | **-.00038** | **.01721** | **.00038** | **.00044** |
| Stddev | .00004 | .00013 | .00010 | .00052 | .00987 | .00009 | .00062 | .00003 | .00025 |
| %RSD | 16.741 | 323.87 | 2.2980 | 2.5400 | 88.852 | 24.854 | 3.5794 | 7.1640 | 55.581 |
| #1 | -.00024 | -.00013 | .00461 | .02006 | .01808 | -.00031 | .01677 | .00040 | .00062 |
| #2 | -.00019 | .00005 | .00446 | .02079 | .00413 | -.00044 | .01764 | .00036 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22325** | **.00005** | F **.05705** | **.00068** | **.02464** | **.00026** | **.00301** | W **.06050** | **.00216** |
| Stddev | .00024 | .00019 | .00087 | .00186 | .00083 | .00072 | .00317 | .01712 | .00004 |
| %RSD | .10751 | 361.84 | 1.5267 | 272.16 | 3.3489 | 275.30 | 105.30 | 28.293 | 1.7256 |
| #1 | .22308 | -.00008 | .05766 | -.00063 | .02522 | .00077 | .00077 | .07261 | .00214 |
| #2 | .22342 | .00019 | .05643 | .00200 | .02406 | -.00025 | .00526 | .04840 | .00219 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00100** | **.00033** | **.00034** | **-.04115** | **-.00008** | **.00326** | **.00063** |
| Stddev | .00008 | .00017 | .00005 | .00134 | .01505 | .00017 | .00002 | .00225 |
| %RSD | 33.814 | 17.130 | 14.844 | 400.48 | 36.571 | 209.43 | .52576 | 357.10 |
| #1 | .00017 | .00113 | .00029 | .00129 | -.05179 | -.00020 | .00325 | .00222 |
| #2 | .00028 | .00088 | .00036 | -.00061 | -.03051 | .00004 | .00327 | -.00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6946.4** | **92769.** | **5956.5** |
| Stddev | 7.3 | 95. | 21.6 |
| %RSD | .10560 | .10212 | .36311 |
| #1 | 6941.2 | 92702. | 5941.2 |
| #2 | 6951.6 | 92836. | 5971.8 |

Sample Name: LCS 280-174414/2-A Acquired: 5/21/2013 12:57:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05006** | **1.8253** | **.90552** | **1.0276** | **1.8693** | **.04494** | **1.9194** | **45.851** | **.09617** |
| Stddev | .00003 | .0003 | .00151 | .0001 | .0051 | .00007 | .0042 | .084 | .00006 |
| %RSD | .06063 | .01784 | .16641 | .01140 | .27441 | .15705 | .22098 | .18419 | .05917 |
| #1 | .05009 | 1.8250 | .90658 | 1.0275 | 1.8729 | .04499 | 1.9164 | 45.910 | .09621 |
| #2 | .05004 | 1.8255 | .90445 | 1.0277 | 1.8657 | .04489 | 1.9224 | 45.791 | .09613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46558** | **.18454** | **.22980** | **.96266** | **46.260** | **.92375** | **45.161** | **.45835** | **.92012** |
| Stddev | .00040 | .00025 | .00061 | .00135 | .224 | .00042 | .023 | .00043 | .00112 |
| %RSD | .08495 | .13413 | .26390 | .14047 | .48419 | .04532 | .05111 | .09484 | .12175 |
| #1 | .46530 | .18436 | .23023 | .96170 | 46.418 | .92345 | 45.178 | .45866 | .91933 |
| #2 | .46586 | .18471 | .22937 | .96362 | 46.101 | .92404 | 45.145 | .45804 | .92091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.174** | **.45853** | **9.2039** | **.46760** | **.02397** | **.46643** | **1.7998** | **1.5143** | **1.8227** |
| Stddev | .219 | .00001 | .0120 | .00017 | .00209 | .00041 | .0027 | .0049 | .0015 |
| %RSD | .46449 | .00204 | .12999 | .03707 | 8.7387 | .08794 | .15175 | .32270 | .08271 |
| #1 | 47.019 | .45854 | 9.1955 | .46748 | .02249 | .46614 | 1.8018 | 1.5178 | 1.8216 |
| #2 | 47.329 | .45852 | 9.2124 | .46772 | .02545 | .46672 | 1.7979 | 1.5108 | 1.8237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90075** | **.93942** | **.93255** | **1.8666** | **1.9082** | **.45594** | **.45328** | **.45625** |
| Stddev | .00368 | .00309 | .00073 | .0043 | .0021 | .00044 | .00017 | .00094 |
| %RSD | .40856 | .32910 | .07828 | .23187 | .11240 | .09625 | .03849 | .20587 |
| #1 | .90335 | .94160 | .93307 | 1.8636 | 1.9066 | .45625 | .45315 | .45559 |
| #2 | .89815 | .93723 | .93203 | 1.8697 | 1.9097 | .45562 | .45340 | .45691 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6611.2** | **90179.** | **5828.2** |
| Stddev | 8.6 | 147. | 34.3 |
| %RSD | .13055 | .16290 | .58870 |
| #1 | 6617.3 | 90076. | 5804.0 |
| #2 | 6605.1 | 90283. | 5852.5 |

Sample Name: 280-42032-A-9-G@5 Acquired: 5/21/2013 12:59:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **4.9114** | **.00294** | **.00715** | **.03621** | **.00017** | **.00063** | **15.993** | **.00034** |
| Stddev | .00052 | .0065 | .00032 | .00066 | .00006 | .00008 | .00068 | .009 | .00002 |
| %RSD | 160.80 | .13255 | 10.767 | 9.1991 | .15832 | 47.304 | 108.55 | .05550 | 5.3614 |
| #1 | -.00070 | 4.9068 | .00316 | .00761 | .03625 | .00011 | .00015 | 15.987 | .00036 |
| #2 | .00004 | 4.9160 | .00272 | .00668 | .03617 | .00023 | .00111 | 15.999 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00184** | **.00467** | **.01040** | **4.7222** | **1.2653** | **.00204** | **1.6534** | **.10300** | **.00028** |
| Stddev | .00011 | .00010 | .00001 | .0143 | .0028 | .00250 | .0012 | .00009 | .00003 |
| %RSD | 6.2452 | 2.1255 | .08513 | .30287 | .22433 | 122.71 | .07214 | .09061 | 12.114 |
| #1 | .00192 | .00474 | .01041 | 4.7121 | 1.2633 | .00027 | 1.6525 | .10307 | .00031 |
| #2 | .00176 | .00460 | .01039 | 4.7323 | 1.2674 | .00381 | 1.6542 | .10293 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00679** | **.00405** | **.15154** | **.00736** | **.12892** | **.00048** | **-.00083** | **.13734** | **-.00020** |
| Stddev | .00349 | .00011 | .00079 | .00033 | .00340 | .00045 | .00100 | .00951 | .00026 |
| %RSD | 51.354 | 2.6215 | .51877 | 4.5515 | 2.6369 | 93.800 | 119.51 | 6.9210 | 127.96 |
| #1 | .00432 | .00397 | .15210 | .00760 | .13132 | .00016 | -.00013 | .14407 | -.00002 |
| #2 | .00926 | .00413 | .15098 | .00712 | .12651 | .00080 | -.00154 | .13062 | -.00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02980** | **.00332** | **.07861** | **.00119** | **-.01816** | **.00669** | **.02074** | **.00416** |
| Stddev | .00025 | .00021 | .00003 | .00018 | .01376 | .00011 | .00041 | .00186 |
| %RSD | .83756 | 6.4238 | .03234 | 15.505 | 75.802 | 1.7064 | 1.9542 | 44.726 |
| #1 | .02997 | .00347 | .07860 | .00106 | -.02789 | .00677 | .02046 | .00285 |
| #2 | .02962 | .00317 | .07863 | .00132 | -.00843 | .00661 | .02103 | .00548 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6919.0** | **92825.** | **5898.9** |
| Stddev | .1 | 115. | .5 |
| %RSD | .00083 | .12395 | .00904 |
| #1 | 6918.9 | 92744. | 5898.5 |
| #2 | 6919.0 | 92907. | 5899.3 |

Sample Name: 42032-A-9-G@25 Acquired: 5/21/2013 13:01:49 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.98681** | **.00127** | **.00396** | **.00789** | **-.00005** | **-.00055** | **3.3367** | **.00012** |
| Stddev | .00026 | .00733 | .00146 | .00036 | .00036 | .00005 | .00129 | .0284 | .00004 |
| %RSD | 89.336 | .74259 | 114.92 | 9.1011 | 4.5275 | 92.815 | 235.11 | .85151 | 29.664 |
| #1 | .00011 | .99200 | .00231 | .00370 | .00814 | -.00008 | -.00146 | 3.3166 | .00010 |
| #2 | .00047 | .98163 | .00024 | .00421 | .00764 | -.00002 | .00036 | 3.3567 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00099** | **.00148** | **.98218** | **.27269** | **.00122** | **.33963** | **.02132** | **.00018** |
| Stddev | .00001 | .00005 | .00009 | .01449 | .03195 | .00007 | .00028 | .00018 | .00011 |
| %RSD | 1.8612 | 4.9407 | 5.8882 | 1.4756 | 11.717 | 5.6550 | .08103 | .86081 | 60.605 |
| #1 | .00065 | .00103 | .00142 | .97193 | .25010 | .00127 | .33983 | .02144 | .00011 |
| #2 | .00063 | .00096 | .00154 | .99243 | .29528 | .00117 | .33944 | .02119 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03407** | **.00062** | **.03298** | **.00011** | **.02726** | **.00056** | **.00171** | **.03007** | **-.00044** |
| Stddev | .00118 | .00004 | .00052 | .00074 | .00240 | .00091 | .00056 | .00934 | .00020 |
| %RSD | 3.4508 | 6.0812 | 1.5636 | 655.04 | 8.7904 | 162.67 | 32.640 | 31.054 | 44.972 |
| #1 | -.03324 | .00065 | .03261 | .00064 | .02895 | .00121 | .00131 | .02347 | -.00059 |
| #2 | -.03491 | .00060 | .03334 | -.00041 | .02557 | -.00008 | .00210 | .03667 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00611** | **.00115** | **.01653** | **.00130** | **-.00655** | **.00135** | **.00701** | **.00211** |
| Stddev | .00006 | .00020 | .00101 | .00101 | .00211 | .00030 | .00011 | .00074 |
| %RSD | 1.0491 | 17.417 | 6.1008 | 77.784 | 32.176 | 22.005 | 1.6250 | 34.984 |
| #1 | .00606 | .00129 | .01582 | .00059 | -.00804 | .00114 | .00710 | .00263 |
| #2 | .00615 | .00101 | .01724 | .00202 | -.00506 | .00156 | .00693 | .00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6840.4** | **92822.** | **5803.2** |
| Stddev | 36.4 | 482. | 8.2 |
| %RSD | .53248 | .51876 | .14112 |
| #1 | 6814.7 | 92482. | 5797.4 |
| #2 | 6866.2 | 93163. | 5809.0 |

Sample Name: 42032-A-9-H MS@5 Acquired: 5/21/2013 13:04:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00226** | **6.4845** | **.03934** | **.04370** | **.11326** | **.00209** | **.08439** | **16.394** | **.00432** |
| Stddev | .00054 | .0098 | .00130 | .00017 | .00043 | .00006 | .00157 | .063 | .00012 |
| %RSD | 23.926 | .15114 | 3.2954 | .39516 | .37548 | 2.6769 | 1.8657 | .38333 | 2.8565 |
| #1 | .00188 | 6.4914 | .04025 | .04357 | .11296 | .00205 | .08551 | 16.349 | .00440 |
| #2 | .00264 | 6.4776 | .03842 | .04382 | .11356 | .00213 | .08328 | 16.438 | .00423 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02154** | **.01350** | **.01797** | **4.4252** | **3.4410** | **.04261** | **3.6547** | **.11022** | **.03722** |
| Stddev | .00019 | .00003 | .00002 | .0125 | .0053 | .00066 | .0022 | .00035 | .00035 |
| %RSD | .90128 | .23781 | .12979 | .28182 | .15553 | 1.5524 | .06165 | .31707 | .93834 |
| #1 | .02168 | .01348 | .01795 | 4.4164 | 3.4372 | .04308 | 3.6531 | .11047 | .03697 |
| #2 | .02141 | .01352 | .01798 | 4.4340 | 3.4448 | .04214 | 3.6563 | .10997 | .03746 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9332** | **.02353** | **.50863** | **.02598** | **.11106** | **.00816** | **.07243** | **.21236** | **.07452** |
| Stddev | .0018 | .00001 | .00151 | .00001 | .00084 | .00034 | .00228 | .00478 | .00022 |
| %RSD | .09218 | .06098 | .29622 | .02242 | .75975 | 4.1987 | 3.1523 | 2.2504 | .30189 |
| #1 | 1.9345 | .02354 | .50970 | .02598 | .11047 | .00840 | .07081 | .21573 | .07436 |
| #2 | 1.9320 | .02352 | .50757 | .02597 | .11166 | .00792 | .07404 | .20898 | .07468 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06662** | **.03994** | **.16684** | **.08350** | **.07151** | **.02720** | **.03911** | **.02211** |
| Stddev | .00016 | .00013 | .00038 | .00045 | .02946 | .00047 | .00039 | .00155 |
| %RSD | .23616 | .31914 | .22739 | .53528 | 41.192 | 1.7340 | .99896 | 7.0116 |
| #1 | .06673 | .03985 | .16711 | .08318 | .05068 | .02686 | .03883 | .02321 |
| #2 | .06651 | .04003 | .16657 | .08382 | .09234 | .02753 | .03938 | .02102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6877.7** | **91113.** | **5861.1** |
| Stddev | 2.6 | 138. | 10.3 |
| %RSD | .03740 | .15192 | .17633 |
| #1 | 6879.5 | 91015. | 5868.4 |
| #2 | 6875.9 | 91211. | 5853.8 |

Sample Name: 42032-A-9-I MSD@5 Acquired: 5/21/2013 13:06:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00205** | **7.2181** | **.03882** | **.04296** | **.11803** | **.00206** | **.08240** | **18.273** | **.00425** |
| Stddev | .00051 | .0463 | .00190 | .00023 | .00056 | .00003 | .00246 | .064 | .00005 |
| %RSD | 24.641 | .64084 | 4.8835 | .52634 | .47752 | 1.4002 | 2.9800 | .35258 | 1.1487 |
| #1 | .00241 | 7.1854 | .03748 | .04312 | .11763 | .00208 | .08067 | 18.228 | .00428 |
| #2 | .00169 | 7.2508 | .04016 | .04280 | .11843 | .00204 | .08414 | 18.319 | .00421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02186** | **.01396** | **.01973** | **5.0895** | **3.6083** | **.04353** | **3.8282** | **.12374** | **.03693** |
| Stddev | .00000 | .00003 | .00041 | .0020 | .0134 | .00107 | .0014 | .00001 | .00006 |
| %RSD | .00183 | .20368 | 2.0846 | .03878 | .37220 | 2.4662 | .03707 | .00478 | .16223 |
| #1 | .02186 | .01398 | .02002 | 5.0881 | 3.5988 | .04429 | 3.8292 | .12374 | .03698 |
| #2 | .02186 | .01394 | .01944 | 5.0909 | 3.6178 | .04277 | 3.8272 | .12375 | .03689 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9313** | **.02373** | **.52583** | **.02550** | **.13272** | **.00830** | **.07940** | **.20897** | **.07331** |
| Stddev | .0116 | .00012 | .00364 | .00095 | .00036 | .00112 | .00282 | .01918 | .00013 |
| %RSD | .59844 | .50851 | .69147 | 3.7412 | .27057 | 13.466 | 3.5550 | 9.1776 | .17968 |
| #1 | 1.9232 | .02382 | .52841 | .02483 | .13298 | .00751 | .08139 | .19541 | .07341 |
| #2 | 1.9395 | .02365 | .52326 | .02618 | .13247 | .00909 | .07740 | .22253 | .07322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07067** | **.03991** | **.18046** | **.08100** | **.06065** | **.02762** | **.04077** | **.02256** |
| Stddev | .00034 | .00135 | .00031 | .00060 | .02823 | .00007 | .00023 | .00179 |
| %RSD | .48600 | 3.3930 | .17409 | .73720 | 46.546 | .24403 | .56369 | 7.9320 |
| #1 | .07091 | .03895 | .18024 | .08058 | .08061 | .02766 | .04093 | .02129 |
| #2 | .07043 | .04087 | .18069 | .08143 | .04069 | .02757 | .04061 | .02382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6870.9** | **92243.** | **5898.7** |
| Stddev | 3.5 | 142. | 9.9 |
| %RSD | .05082 | .15375 | .16746 |
| #1 | 6868.4 | 92143. | 5891.7 |
| #2 | 6873.3 | 92343. | 5905.7 |

Sample Name: pds 42032-A-9-G@5 Acquired: 5/21/2013 13:09:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04717** | **5.6774** | **.19505** | **.09897** | **.13406** | **.04818** | **-.00049** | **34.908** | **.05127** |
| Stddev | .00013 | .0010 | .00096 | .00083 | .00029 | .00006 | .00036 | .023 | .00001 |
| %RSD | .28015 | .01775 | .49305 | .84293 | .21860 | .11988 | 74.924 | .06686 | .01715 |
| #1 | .04708 | 5.6781 | .19437 | .09956 | .13385 | .04822 | -.00074 | 34.924 | .05127 |
| #2 | .04726 | 5.6767 | .19573 | .09838 | .13427 | .04814 | -.00023 | 34.891 | .05128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05199** | **.05410** | **.05934** | **5.5099** | **21.047** | **.10276** | **21.080** | **.14699** | **.04853** |
| Stddev | .00007 | .00015 | .00070 | .0147 | .031 | .00094 | .050 | .00032 | .00015 |
| %RSD | .14110 | .26999 | 1.1861 | .26733 | .14750 | .91793 | .23874 | .22011 | .31001 |
| #1 | .05204 | .05400 | .05984 | 5.4995 | 21.068 | .10342 | 21.115 | .14722 | .04842 |
| #2 | .05194 | .05420 | .05884 | 5.5203 | 21.025 | .10209 | 21.044 | .14677 | .04864 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.476** | **.05340** | **2.1024** | **.10954** | **.12982** | **.09698** | **.19742** | **4.9650** | **.09788** |
| Stddev | .236 | .00003 | .0009 | .00188 | .00313 | .00012 | .00275 | .0176 | .00046 |
| %RSD | 1.1527 | .06073 | .04286 | 1.7132 | 2.4146 | .12734 | 1.3934 | .35452 | .47284 |
| #1 | 20.643 | .05338 | 2.1018 | .10821 | .12760 | .09707 | .19936 | 4.9774 | .09756 |
| #2 | 20.309 | .05342 | 2.1031 | .11087 | .13204 | .09689 | .19547 | 4.9525 | .09821 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07848** | **.20584** | **.12529** | **.20538** | **.50167** | **.05540** | **.21832** | **.05105** |
| Stddev | .00015 | .00157 | .00032 | .00105 | .01832 | .00065 | .00217 | .00182 |
| %RSD | .19062 | .76355 | .25226 | .51225 | 3.6518 | 1.1652 | .99311 | 3.5701 |
| #1 | .07859 | .20473 | .12552 | .20464 | .51462 | .05586 | .21986 | .04976 |
| #2 | .07838 | .20695 | .12507 | .20613 | .48871 | .05494 | .21679 | .05234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6748.4** | **91329.** | **5812.9** |
| Stddev | 7.5 | 222. | 8.7 |
| %RSD | .11081 | .24263 | .15029 |
| #1 | 6753.7 | 91486. | 5806.7 |
| #2 | 6743.1 | 91173. | 5819.1 |

Sample Name: 280-42032-A-10-C@5 Acquired: 5/21/2013 13:11:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174414 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **4.4430** | **.00444** | **.00461** | **.03383** | **.00025** | **-.00085** | **15.491** | **.00013** |
| Stddev | .00025 | .0226 | .00250 | .00028 | .00012 | .00000 | .00057 | .054 | .00019 |
| %RSD | 70.670 | .50855 | 56.314 | 5.9831 | .36553 | 1.8303 | 66.790 | .34559 | 149.74 |
| #1 | .00052 | 4.4589 | .00267 | .00442 | .03391 | .00025 | -.00126 | 15.453 | .00026 |
| #2 | .00017 | 4.4270 | .00621 | .00481 | .03374 | .00025 | -.00045 | 15.529 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00169** | **.00407** | **.00570** | **4.1469** | **1.1489** | **.00176** | **1.5015** | **.09545** | **.00023** |
| Stddev | .00028 | .00011 | .00012 | .0195 | .0430 | .00111 | .0034 | .00013 | .00005 |
| %RSD | 16.419 | 2.5804 | 2.0266 | .46986 | 3.7432 | 62.843 | .22635 | .13446 | 22.012 |
| #1 | .00149 | .00415 | .00562 | 4.1331 | 1.1793 | .00255 | 1.5039 | .09554 | .00027 |
| #2 | .00188 | .00400 | .00578 | 4.1606 | 1.1185 | .00098 | 1.4991 | .09536 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **.00360** | **.14057** | **.00607** | **.09252** | **-.00005** | **-.00107** | **.12190** | **-.00027** |
| Stddev | .01438 | .00016 | .00087 | .00034 | .00042 | .00052 | .00239 | .00752 | .00102 |
| %RSD | 2953.0 | 4.4514 | .62225 | 5.6581 | .45320 | 1022.1 | 223.63 | 6.1672 | 373.65 |
| #1 | -.00968 | .00371 | .13995 | .00582 | .09223 | -.00042 | -.00276 | .12722 | .00045 |
| #2 | .01066 | .00349 | .14119 | .00631 | .09282 | .00032 | .00062 | .11659 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02799** | **.00109** | **.06501** | **.00041** | **-.01932** | **.00558** | **.01898** | **.00258** |
| Stddev | .00005 | .00155 | .00010 | .00025 | .01428 | .00005 | .00071 | .00223 |
| %RSD | .17987 | 142.27 | .15269 | 60.600 | 73.878 | .87727 | 3.7447 | 86.637 |
| #1 | .02795 | .00218 | .06494 | .00023 | -.02942 | .00554 | .01848 | .00100 |
| #2 | .02802 | -.00001 | .06508 | .00059 | -.00923 | .00561 | .01949 | .00415 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6863.6** | **91495.** | **5854.2** |
| Stddev | 18.1 | 351. | 8.2 |
| %RSD | .26326 | .38318 | .13935 |
| #1 | 6876.4 | 91248. | 5860.0 |
| #2 | 6850.8 | 91743. | 5848.4 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 13:13:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00252** | **49.355** | **.00136** | **.00355** | **.00019** | **-.00006** | **.99017** | **.00259** | **-.00077** | **.00199** | **-.00027** | **.00132** | **49.652** |
| Stddev | .00002 | .189 | .00028 | .00026 | .00026 | .00003 | .00399 | .00046 | .00008 | .00026 | .00005 | .00054 | .015 |
| %RSD | .74670 | .38252 | 20.689 | 7.1991 | 136.86 | 39.805 | .40327 | 17.737 | 10.261 | 13.166 | 20.265 | 40.882 | .03021 |
| #1 | .00254 | 49.488 | .00155 | .00337 | .00038 | -.00008 | .98734 | .00227 | -.00082 | .00217 | -.00023 | .00171 | 49.642 |
| #2 | .00251 | 49.221 | .00116 | .00373 | .00001 | -.00005 | .99299 | .00292 | -.00071 | .00180 | -.00031 | .00094 | 49.663 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07017** | **.00012** | **-.00466** | **-.00060** | **-.00179** | **244.06** | **.00086** | **.00451** | **.00042** | **4.8903** | **-.00054** | **.00263** | **.00972** |
| Stddev | .04072 | .00010 | .00286 | .00006 | .00008 | .72 | .00047 | .00164 | .00161 | .0005 | .00025 | .00134 | .01044 |
| %RSD | 58.035 | 83.040 | 61.259 | 9.3311 | 4.2439 | .29488 | 54.361 | 36.287 | 384.20 | .00996 | 46.783 | 51.207 | 107.44 |
| #1 | -.09897 | .00018 | -.00264 | -.00056 | -.00173 | 244.57 | .00053 | .00567 | .00156 | 4.8906 | -.00072 | .00358 | .00233 |
| #2 | -.04138 | .00005 | -.00668 | -.00064 | -.00184 | 243.56 | .00120 | .00335 | -.00072 | 4.8900 | -.00036 | .00168 | .01710 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00016** | **4.9696** | **.00227** | **-.00052** | **9.8792** | **-.00052** | **.00309** | **-.02809** |
| Stddev | .00019 | .00001 | .0602 | .00003 | .00065 | .1620 | .00011 | .00005 | .00807 |
| %RSD | 424.41 | 8.7561 | 1.2121 | 1.3578 | 125.76 | 1.6394 | 20.489 | 1.5805 | 28.732 |
| #1 | .00018 | .00017 | 5.0122 | .00229 | -.00006 | 9.9937 | -.00060 | .00305 | -.03380 |
| #2 | -.00009 | .00015 | 4.9270 | .00225 | -.00098 | 9.7647 | -.00045 | .00312 | -.02239 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6616.3** | **89424.** | **5740.6** |
| Stddev | 6.9 | 555. | 3.6 |
| %RSD | .10478 | .62115 | .06285 |
| #1 | 6621.2 | 89031. | 5743.2 |
| #2 | 6611.4 | 89816. | 5738.1 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 13:16:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49849** | **.49425** | **.97449** | **.48352** | **.49696** | **.47935** | **.00012** | **4.9843** | **.49979** | **.50641** | **.49299** | **.48118** | **2.4730** |
| Stddev | .00794 | .00120 | .00067 | .00055 | .00180 | .00174 | .00043 | .0082 | .00127 | .00070 | .00074 | .00724 | .0015 |
| %RSD | 1.5924 | .24325 | .06841 | .11312 | .36320 | .36310 | 351.37 | .16407 | .25429 | .13870 | .14937 | 1.5041 | .06126 |
| #1 | .49288 | .49510 | .97402 | .48390 | .49823 | .48058 | .00043 | 4.9901 | .50069 | .50690 | .49351 | .47607 | 2.4719 |
| #2 | .50411 | .49340 | .97496 | .48313 | .49568 | .47812 | -.00018 | 4.9785 | .49889 | .50591 | .49247 | .48630 | 2.4741 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.335** | **.98854** | **19.398** | **.49096** | **.49111** | **4.9153** | **.49919** | **.95454** | **1.0133** | **-.00202** | **.99356** | **.96742** | **4.8952** |
| Stddev | .311 | .00025 | .302 | .00806 | .00123 | .0235 | .00001 | .00330 | .0035 | .00141 | .00371 | .00382 | .0077 |
| %RSD | .63133 | .02516 | 1.5567 | 1.6421 | .25085 | .47786 | .00289 | .34535 | .34568 | 70.065 | .37348 | .39504 | .15747 |
| #1 | 49.555 | .98836 | 19.184 | .48526 | .49198 | 4.9319 | .49920 | .95687 | 1.0158 | -.00102 | .99619 | .97012 | 4.9006 |
| #2 | 49.115 | .98871 | 19.611 | .49666 | .49024 | 4.8987 | .49918 | .95221 | 1.0108 | -.00302 | .99094 | .96471 | 4.8897 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98858** | **.48292** | **.00090** | **.49344** | **1.0131** | **-.01257** | **.47992** | **.49003** | **.49689** |
| Stddev | .00559 | .00239 | .00086 | .00884 | .0004 | .00453 | .00667 | .00762 | .00046 |
| %RSD | .56573 | .49396 | 96.111 | 1.7905 | .04162 | 36.011 | 1.3905 | 1.5553 | .09232 |
| #1 | .99254 | .48461 | .00151 | .48720 | 1.0128 | -.00937 | .47521 | .48464 | .49722 |
| #2 | .98463 | .48124 | .00029 | .49969 | 1.0134 | -.01577 | .48464 | .49542 | .49657 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6786.7** | **92412.** | **5794.7** |
| Stddev | 8.9 | 1127. | 12.8 |
| %RSD | .13179 | 1.2192 | .22101 |
| #1 | 6780.3 | 93209. | 5785.6 |
| #2 | 6793.0 | 91616. | 5803.7 |

Sample Name: CCB Acquired: 5/21/2013 13:18:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **-.00050** | **.00191** | W **.00247** | **-.00008** | **-.00003** | **-.00085** | **-.00278** | **.00006** | **.00018** | **-.00003** |
| Stddev | .00012 | .00003 | .00247 | .00021 | .00012 | .00009 | .00075 | .00411 | .00006 | .00001 | .00002 |
| %RSD | 94.446 | 5.4679 | 129.32 | 8.6079 | 157.79 | 281.95 | 87.577 | 147.83 | 97.412 | 4.2249 | 73.445 |
| #1 | .00022 | -.00048 | .00016 | .00232 | .00001 | -.00010 | -.00033 | .00013 | .00010 | .00018 | -.00004 |
| #2 | .00004 | -.00052 | .00366 | .00262 | -.00016 | .00003 | -.00138 | -.00569 | .00002 | .00019 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00114** | **.00310** | **-.02710** | **-.00074** | **.00208** | **.00020** | **.00030** | **-.00779** | **-.00021** | **.00200** | **-.00071** |
| Stddev | .00006 | .00082 | .04546 | .00090 | .00073 | .00007 | .00005 | .00677 | .00062 | .00040 | .00103 |
| %RSD | 5.1090 | 26.304 | 167.76 | 120.88 | 35.155 | 33.206 | 15.270 | 86.952 | 299.52 | 19.860 | 145.14 |
| #1 | -.00110 | .00253 | .00505 | -.00011 | .00156 | .00015 | .00034 | -.01258 | .00023 | .00172 | -.00143 |
| #2 | -.00118 | .00368 | -.05925 | -.00138 | .00259 | .00024 | .00027 | -.00300 | -.00064 | .00228 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | W **.00583** | **.00013** | **-.00618** | **-.00020** | **.00000** | **.00021** | **.00000** | **.00093** | **-.01292** | **.00018** |
| Stddev | .00071 | .00183 | .00001 | .00685 | .00029 | .00001 | .00068 | .00016 | .00047 | .02684 | .00029 |
| %RSD | 51.502 | 31.360 | 5.0093 | 110.79 | 143.38 | 233.91 | 323.36 | 6710.0 | 50.164 | 207.71 | 165.86 |
| #1 | .00088 | .00454 | .00012 | -.00134 | -.00040 | -.00000 | -.00027 | -.00011 | .00126 | .00606 | .00038 |
| #2 | .00189 | .00713 | .00013 | -.01102 | .00000 | .00001 | .00069 | .00012 | .00060 | -.03190 | -.00003 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00264** | **-.00097** |
| Stddev | .00040 | .00013 |
| %RSD | 15.082 | 13.664 |
| #1 | .00292 | -.00088 |
| #2 | .00236 | -.00106 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6766.7** | **92043.** | **5782.2** |
| Stddev | 3.9 | 141. | 6.4 |
| %RSD | .05816 | .15347 | .11128 |
| #1 | 6764.0 | 92143. | 5777.6 |
| #2 | 6769.5 | 91943. | 5786.7 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 13:21:02 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01054** | **.10534** | **.01507** | **.09851** | **.01032** | **.00096** | **.11019** | **.21180** | **.00545** | **.01094** | **.01035** | **.01505** | **.10402** |
| Stddev | .00050 | .00002 | .00089 | .00019 | .00060 | .00009 | .00175 | .00226 | .00007 | .00005 | .00007 | .00015 | .00104 |
| %RSD | 4.7309 | .01809 | 5.9025 | .19156 | 5.8466 | 9.4555 | 1.5913 | 1.0688 | 1.2323 | .44915 | .70672 | 1.0194 | 1.0038 |
| #1 | .01018 | .10533 | .01570 | .09864 | .01074 | .00090 | .10895 | .21340 | .00550 | .01091 | .01030 | .01494 | .10476 |
| #2 | .01089 | .10536 | .01444 | .09838 | .00989 | .00103 | .11143 | .21020 | .00541 | .01098 | .01040 | .01516 | .10328 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1266** | **.00893** | **.21291** | **.01072** | **.02063** | **1.0301** | **.04258** | **2.8750** | **.00992** | **-.00047** | **.01132** | **.01503** | **.51110** |
| Stddev | .0664 | .00041 | .00170 | .00002 | .00019 | .0135 | .00027 | .0054 | .00101 | .00072 | .00014 | .00115 | .00998 |
| %RSD | 2.1225 | 4.5841 | .79766 | .20127 | .92154 | 1.3142 | .64097 | .18688 | 10.144 | 154.01 | 1.2601 | 7.6653 | 1.9518 |
| #1 | 3.0796 | .00864 | .21411 | .01070 | .02050 | 1.0205 | .04277 | 2.8712 | .01063 | -.00097 | .01142 | .01421 | .50404 |
| #2 | 3.1735 | .00922 | .21171 | .01073 | .02076 | 1.0397 | .04238 | 2.8788 | .00921 | .00004 | .01122 | .01584 | .51815 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10197** | **.01022** | **.01626** | **.01023** | **.01688** | **.05274** | **.01013** | **.02317** | **.01337** |
| Stddev | .00129 | .00009 | .00045 | .00024 | .00002 | .01075 | .00025 | .00034 | .00083 |
| %RSD | 1.2678 | .83916 | 2.7475 | 2.3845 | .14451 | 20.384 | 2.4797 | 1.4672 | 6.1811 |
| #1 | .10105 | .01016 | .01595 | .01006 | .01690 | .06034 | .01031 | .02341 | .01395 |
| #2 | .10288 | .01029 | .01658 | .01041 | .01687 | .04514 | .00995 | .02292 | .01278 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6678.9** | **91176.** | **5748.7** |
| Stddev | 4.1 | 89. | 24.6 |
| %RSD | .06089 | .09713 | .42867 |
| #1 | 6676.0 | 91239. | 5766.1 |
| #2 | 6681.8 | 91113. | 5731.2 |

Sample Name: MB 280-173665/1-A Acquired: 5/21/2013 13:23:27 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.01760** | **.00095** | F **.02208** | **.00044** | **-.00007** | **-.00172** | **.07664** | **.00026** |
| Stddev | .00086 | .00016 | .00268 | .00021 | .00048 | .00004 | .00188 | .00512 | .00015 |
| %RSD | 678.10 | .90645 | 283.03 | .93516 | 108.98 | 56.524 | 108.89 | 6.6852 | 58.695 |
| #1 | .00073 | .01749 | .00285 | .02223 | .00010 | -.00010 | -.00040 | .07302 | .00037 |
| #2 | -.00048 | .01771 | -.00095 | .02193 | .00079 | -.00004 | -.00305 | .08026 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00010** | **.00047** | W **.04098** | **.06013** | **.00008** | **.01626** | **.00127** | **.00003** |
| Stddev | .00012 | .00023 | .00031 | .00026 | .03125 | .00052 | .00240 | .00003 | .00006 |
| %RSD | 259.74 | 226.71 | 64.900 | .63192 | 51.969 | 685.32 | 14.732 | 2.4684 | 235.39 |
| #1 | .00013 | .00027 | .00069 | .04080 | .03803 | -.00029 | .01795 | .00129 | -.00002 |
| #2 | -.00004 | -.00006 | .00025 | .04117 | .08222 | .00044 | .01457 | .00124 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22579** | **-.00002** | F **.09153** | **.00073** | **.03032** | **.00105** | **.00067** | W **.08701** | **.00687** |
| Stddev | .00889 | .00030 | .00153 | .00082 | .00234 | .00076 | .00386 | .00932 | .00056 |
| %RSD | 3.9357 | 1385.7 | 1.6721 | 112.44 | 7.7267 | 72.537 | 576.81 | 10.712 | 8.2043 |
| #1 | .23208 | .00019 | .09262 | .00015 | .02866 | .00159 | -.00206 | .09361 | .00727 |
| #2 | .21951 | -.00024 | .09045 | .00132 | .03197 | .00051 | .00340 | .08042 | .00647 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .01000 | | | | | .05000 | |
| Low Limit | | | -.01000 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00027** | **-.00003** | **.00132** | **-.00885** | **-.00004** | **.00341** | **.00003** |
| Stddev | .00004 | .00032 | .00011 | .00093 | .00570 | .00027 | .00033 | .00205 |
| %RSD | 18.173 | 120.96 | 323.04 | 69.975 | 64.461 | 639.54 | 9.6014 | 6924.4 |
| #1 | .00020 | .00049 | .00004 | .00198 | -.01288 | .00015 | .00364 | .00148 |
| #2 | .00026 | .00004 | -.00011 | .00067 | -.00482 | -.00023 | .00318 | -.00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6850.2** | **93190.** | **5865.5** |
| Stddev | 10.0 | 260. | 3.5 |
| %RSD | .14612 | .27941 | .05937 |
| #1 | 6857.2 | 93006. | 5867.9 |
| #2 | 6843.1 | 93374. | 5863.0 |

Sample Name: LCS 280-173665/2-A Acquired: 5/21/2013 13:25:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05070** | **1.8705** | **.92570** | **1.0628** | **1.9256** | **.04620** | **1.9636** | **47.106** | **.09822** |
| Stddev | .00013 | .0014 | .00513 | .0011 | .0019 | .00008 | .0017 | .010 | .00013 |
| %RSD | .25708 | .07493 | .55381 | .10525 | .09743 | .18386 | .08828 | .02181 | .12844 |
| #1 | .05061 | 1.8715 | .92208 | 1.0636 | 1.9242 | .04614 | 1.9648 | 47.113 | .09813 |
| #2 | .05079 | 1.8695 | .92933 | 1.0620 | 1.9269 | .04626 | 1.9624 | 47.098 | .09831 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47808** | **.19069** | **.23624** | **.96552** | **47.481** | **.94913** | **46.266** | **.47230** | **.95111** |
| Stddev | .00011 | .00014 | .00002 | .00206 | .023 | .00017 | .054 | .00072 | .00094 |
| %RSD | .02246 | .07186 | .00684 | .21355 | .04807 | .01794 | .11601 | .15192 | .09935 |
| #1 | .47816 | .19059 | .23623 | .96697 | 47.497 | .94901 | 46.304 | .47280 | .95178 |
| #2 | .47800 | .19079 | .23625 | .96406 | 47.465 | .94925 | 46.228 | .47179 | .95044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.605** | **.47115** | **9.4344** | **.47695** | **.02092** | **.47994** | **1.8383** | **2.6046** | **1.8823** |
| Stddev | .556 | .00001 | .0002 | .00105 | .00020 | .00053 | .0033 | .0100 | .0024 |
| %RSD | 1.1435 | .00280 | .00174 | .21915 | .93471 | .11009 | .18082 | .38508 | .12568 |
| #1 | 48.998 | .47114 | 9.4345 | .47622 | .02105 | .48032 | 1.8407 | 2.5976 | 1.8840 |
| #2 | 48.212 | .47116 | 9.4343 | .47769 | .02078 | .47957 | 1.8360 | 2.6117 | 1.8807 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92812** | **.96756** | **.96334** | **1.9100** | **1.9889** | **.47029** | **.46632** | **.47170** |
| Stddev | .00011 | .00296 | .00132 | .0031 | .0123 | .00014 | .00074 | .00139 |
| %RSD | .01200 | .30580 | .13692 | .16103 | .61594 | .02923 | .15851 | .29477 |
| #1 | .92804 | .96547 | .96241 | 1.9122 | 1.9976 | .47039 | .46684 | .47071 |
| #2 | .92820 | .96965 | .96427 | 1.9078 | 1.9803 | .47019 | .46580 | .47268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6576.6** | **89373.** | **5813.0** |
| Stddev | 12.6 | 351. | 5.8 |
| %RSD | .19179 | .39298 | .09924 |
| #1 | 6567.7 | 89125. | 5808.9 |
| #2 | 6585.6 | 89622. | 5817.1 |

Sample Name: 280-42043-A-1-A  Acquired: 5/21/2013 13:28:11  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **65.394** | **.03720** | **.03029** | **.31271** | **.00283** | **-.00385** | W **821.35** | **.00404** |
| Stddev | .00075 | .192 | .00030 | .00023 | .00136 | .00000 | .00287 | 8.30 | .00006 |
| %RSD | 99.840 | .29360 | .79456 | .75769 | .43367 | .01594 | 74.665 | 1.0109 | 1.4825 |
| #1 | .00128 | 65.258 | .03741 | .03012 | .31175 | .00283 | -.00588 | 815.48 | .00400 |
| #2 | .00022 | 65.530 | .03699 | .03045 | .31367 | .00283 | -.00182 | 827.22 | .00408 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05151** | **.11258** | **.42665** | **138.14** | **8.2296** | **.12661** | **41.506** | **6.1570** | **.00349** |
| Stddev | .00009 | .00006 | .00176 | .14 | .0615 | .00089 | .066 | .0508 | .00029 |
| %RSD | .16602 | .05159 | .41163 | .09774 | .74739 | .70129 | .15958 | .82544 | 8.4375 |
| #1 | .05157 | .11262 | .42789 | 138.24 | 8.1861 | .12723 | 41.553 | 6.1210 | .00370 |
| #2 | .05145 | .11254 | .42541 | 138.04 | 8.2731 | .12598 | 41.459 | 6.1929 | .00329 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92308** | **.13699** | **4.2343** | **.15001** | **3.9882** | **.00193** | **.00380** | **2.0206** | **.00773** |
| Stddev | .00333 | .00002 | .0067 | .00015 | .0010 | .00006 | .00039 | .0265 | .00021 |
| %RSD | .36079 | .01786 | .15918 | .09882 | .02552 | 3.0839 | 10.238 | 1.3108 | 2.7565 |
| #1 | .92544 | .13697 | 4.2391 | .14990 | 3.9875 | .00197 | .00408 | 2.0393 | .00758 |
| #2 | .92073 | .13701 | 4.2295 | .15011 | 3.9890 | .00188 | .00353 | 2.0019 | .00788 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.78660** | **.03441** | **.40456** | **-.00575** | W **-.07638** | **.23509** | **.57858** | **.03032** |
| Stddev | .00188 | .00404 | .00502 | .00134 | .04346 | .00084 | .00000 | .00011 |
| %RSD | .23898 | 11.733 | 1.2413 | 23.333 | 56.903 | .35926 | .00003 | .34842 |
| #1 | .78527 | .03156 | .40811 | -.00480 | -.04565 | .23569 | .57858 | .03039 |
| #2 | .78793 | .03727 | .40101 | -.00670 | -.10711 | .23449 | .57857 | .03024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6817.7** | **91798.** | **6266.7** |
| Stddev | 8.4 | 223. | 3.9 |
| %RSD | .12368 | .24240 | .06232 |
| #1 | 6823.7 | 91956. | 6269.5 |
| #2 | 6811.8 | 91641. | 6264.0 |

Sample Name: 280-42043-A-2-A Acquired: 5/21/2013 13:31:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **90.533** | **.04182** | **.02448** | **.39924** | **.00380** | **-.00284** | **204.59** | **.00210** |
| Stddev | .00070 | .010 | .00063 | .00007 | .00070 | .00012 | .00254 | .26 | .00010 |
| %RSD | 49.363 | .01051 | 1.5068 | .28287 | .17504 | 3.2388 | 89.421 | .12684 | 4.7992 |
| #1 | .00192 | 90.540 | .04137 | .02453 | .39974 | .00371 | -.00105 | 204.77 | .00203 |
| #2 | .00093 | 90.527 | .04226 | .02443 | .39875 | .00389 | -.00464 | 204.40 | .00217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06481** | **.11712** | **.24741** | **199.25** | **8.9170** | **.16065** | **40.774** | W **11.287** | **.00382** |
| Stddev | .00023 | .00039 | .00022 | .19 | .0010 | .00172 | .021 | .090 | .00045 |
| %RSD | .36165 | .32904 | .09075 | .09732 | .01157 | 1.0721 | .05104 | .80077 | 11.826 |
| #1 | .06498 | .11739 | .24757 | 199.39 | 8.9177 | .15943 | 40.759 | 11.350 | .00350 |
| #2 | .06465 | .11685 | .24725 | 199.11 | 8.9162 | .16186 | 40.789 | 11.223 | .00414 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90215** | **.14167** | **5.0122** | **.06850** | **1.8376** | **-.00115** | **.00166** | **3.7561** | **.00674** |
| Stddev | .00086 | .00028 | .0003 | .00050 | .0003 | .00048 | .00060 | .0046 | .00053 |
| %RSD | .09558 | .19903 | .00682 | .72318 | .01463 | 41.497 | 36.242 | .12303 | 7.7948 |
| #1 | .90276 | .14187 | 5.0120 | .06815 | 1.8374 | -.00081 | .00208 | 3.7594 | .00637 |
| #2 | .90154 | .14147 | 5.0124 | .06885 | 1.8378 | -.00149 | .00123 | 3.7528 | .00711 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29334** | **.05970** | **.73068** | **-.00949** | **-.04767** | **.17154** | **.47083** | **.05075** |
| Stddev | .00039 | .00018 | .00023 | .00030 | .03313 | .00020 | .00088 | .00198 |
| %RSD | .13208 | .30307 | .03108 | 3.1221 | 69.495 | .11643 | .18616 | 3.9089 |
| #1 | .29362 | .05982 | .73084 | -.00928 | -.02424 | .17168 | .47021 | .04934 |
| #2 | .29307 | .05957 | .73052 | -.00970 | -.07109 | .17140 | .47145 | .05215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7493.0** | **100920.** | **6660.2** |
| Stddev | 3.9 | 62. | 30.7 |
| %RSD | .05254 | .06111 | .46051 |
| #1 | 7490.2 | 100970. | 6638.5 |
| #2 | 7495.8 | 100880. | 6681.9 |

Sample Name: 280-42043-A-3-A  Acquired: 5/21/2013 13:33:40  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00185** | **76.076** | **.04016** | **.02064** | **.30460** | **.00332** | **.00034** | **39.021** | **.00147** |
| Stddev | .00037 | .137 | .00028 | .00000 | .00094 | .00008 | .00046 | .065 | .00000 |
| %RSD | 19.947 | .17974 | .69474 | .00211 | .30992 | 2.4668 | 135.92 | .16683 | .28661 |
| #1 | .00211 | 75.979 | .03996 | .02064 | .30393 | .00326 | .00066 | 38.975 | .00147 |
| #2 | .00159 | 76.172 | .04036 | .02064 | .30526 | .00338 | .00001 | 39.067 | .00146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05559** | **.09594** | **.31490** | **188.62** | **8.5690** | **.13908** | **33.194** | W **10.632** | **.00349** |
| Stddev | .00021 | .00001 | .00046 | 1.15 | .0499 | .00002 | .047 | .066 | .00012 |
| %RSD | .37212 | .00911 | .14459 | .60956 | .58250 | .01688 | .14139 | .61726 | 3.5119 |
| #1 | .05574 | .09595 | .31458 | 187.81 | 8.5337 | .13906 | 33.160 | 10.678 | .00340 |
| #2 | .05545 | .09593 | .31523 | 189.44 | 8.6043 | .13909 | 33.227 | 10.585 | .00357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61230** | **.13040** | **4.5181** | **.04724** | **.15806** | **-.00234** | **.00373** | **2.0252** | **.00527** |
| Stddev | .00675 | .00006 | .0065 | .00022 | .00035 | .00014 | .00107 | .0020 | .00012 |
| %RSD | 1.1031 | .04766 | .14332 | .45656 | .22332 | 5.8892 | 28.662 | .10067 | 2.3089 |
| #1 | .60753 | .13044 | 4.5136 | .04739 | .15781 | -.00244 | .00449 | 2.0237 | .00536 |
| #2 | .61708 | .13035 | 4.5227 | .04709 | .15831 | -.00224 | .00297 | 2.0266 | .00519 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07018** | **.04413** | **.52419** | **-.00909** | W **-.05254** | **.13167** | **.46613** | **.04440** |
| Stddev | .00006 | .00047 | .00060 | .00075 | .00307 | .00001 | .00113 | .00127 |
| %RSD | .08913 | 1.0658 | .11419 | 8.2875 | 5.8374 | .00471 | .24317 | 2.8578 |
| #1 | .07022 | .04380 | .52377 | -.00962 | -.05471 | .13168 | .46533 | .04530 |
| #2 | .07013 | .04446 | .52461 | -.00855 | -.05037 | .13167 | .46693 | .04350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7759.7** | **104890.** | **6782.0** |
| Stddev | 7.7 | 136. | 14.8 |
| %RSD | .09983 | .12928 | .21785 |
| #1 | 7754.2 | 104990. | 6792.5 |
| #2 | 7765.2 | 104790. | 6771.6 |

Sample Name: 280-42043-A-4-A  Acquired: 5/21/2013 13:36:05  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **72.557** | **.04045** | **.02063** | **.37615** | **.00281** | **-.00181** | **311.32** | **.00438** |
| Stddev | .00047 | .184 | .00013 | .00031 | .00041 | .00005 | .00069 | 1.66 | .00023 |
| %RSD | 42.509 | .25327 | .31600 | 1.5209 | .10897 | 1.6244 | 37.969 | .53302 | 5.3494 |
| #1 | .00142 | 72.428 | .04054 | .02041 | .37644 | .00284 | -.00132 | 310.14 | .00422 |
| #2 | .00077 | 72.687 | .04036 | .02085 | .37586 | .00278 | -.00229 | 312.49 | .00455 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04909** | **.09009** | **.26874** | **152.89** | **7.2778** | **.12166** | **31.813** | **8.3077** | **.00437** |
| Stddev | .00054 | .00080 | .00123 | .37 | .0298 | .00021 | .077 | .0554 | .00005 |
| %RSD | 1.1057 | .89111 | .45713 | .24150 | .40934 | .17459 | .24353 | .66735 | 1.2028 |
| #1 | .04870 | .08952 | .26961 | 152.63 | 7.2568 | .12151 | 31.868 | 8.2685 | .00433 |
| #2 | .04947 | .09066 | .26787 | 153.15 | 7.2989 | .12181 | 31.758 | 8.3469 | .00440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.70488** | **.10942** | **4.1183** | **.15774** | **3.6402** | **-.00144** | **.00366** | **1.7597** | **.00524** |
| Stddev | .00853 | .00117 | .0308 | .00222 | .0254 | .00146 | .00093 | .0239 | .00031 |
| %RSD | 1.2105 | 1.0692 | .74703 | 1.4057 | .69749 | 101.12 | 25.400 | 1.3553 | 5.8817 |
| #1 | .71092 | .10859 | 4.0965 | .15617 | 3.6222 | -.00041 | .00432 | 1.7429 | .00502 |
| #2 | .69885 | .11025 | 4.1400 | .15931 | 3.6581 | -.00247 | .00300 | 1.7766 | .00546 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36982** | **.03397** | **.35683** | **-.00714** | **-.03094** | **.13371** | **.58477** | **.02779** |
| Stddev | .00089 | .00122 | .00149 | .00149 | .00183 | .00036 | .00043 | .00231 |
| %RSD | .24121 | 3.5971 | .41804 | 20.835 | 5.9202 | .27263 | .07326 | 8.2995 |
| #1 | .36918 | .03311 | .35578 | -.00609 | -.03224 | .13397 | .58507 | .02616 |
| #2 | .37045 | .03484 | .35789 | -.00819 | -.02965 | .13345 | .58447 | .02942 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7082.9** | **94859.** | **6263.3** |
| Stddev | 25.4 | 121. | 27.0 |
| %RSD | .35798 | .12798 | .43034 |
| #1 | 7100.8 | 94944. | 6282.4 |
| #2 | 7065.0 | 94773. | 6244.2 |

Sample Name: 280-42043-A-5-A Acquired: 5/21/2013 13:38:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **76.246** | **.04006** | **.02732** | **.38423** | **.00328** | **-.00277** | **372.34** | **.00352** |
| Stddev | .00010 | .596 | .00103 | .00001 | .00259 | .00003 | .00194 | .57 | .00005 |
| %RSD | 7.3036 | .78182 | 2.5812 | .02571 | .67534 | 1.0266 | 70.103 | .15318 | 1.5477 |
| #1 | .00137 | 76.668 | .04079 | .02733 | .38606 | .00330 | -.00414 | 371.94 | .00356 |
| #2 | .00124 | 75.825 | .03933 | .02732 | .38239 | .00325 | -.00140 | 372.75 | .00348 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05187** | **.10802** | **.27230** | **169.64** | **8.4396** | **.12822** | **35.473** | **9.6065** | **.00492** |
| Stddev | .00013 | .00033 | .00032 | .82 | .0030 | .00145 | .018 | .0412 | .00003 |
| %RSD | .24774 | .30722 | .11800 | .48198 | .03575 | 1.1300 | .05213 | .42852 | .67533 |
| #1 | .05196 | .10778 | .27207 | 170.22 | 8.4374 | .12925 | 35.486 | 9.5774 | .00490 |
| #2 | .05178 | .10825 | .27252 | 169.07 | 8.4417 | .12720 | 35.460 | 9.6356 | .00495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86880** | **.11681** | **4.1215** | **.20424** | **2.8356** | **-.00071** | **-.00377** | **3.2623** | **.00542** |
| Stddev | .00389 | .00018 | .0013 | .00106 | .0027 | .00323 | .00222 | .0372 | .00005 |
| %RSD | .44751 | .15414 | .03133 | .51826 | .09618 | 455.51 | 58.795 | 1.1411 | .98083 |
| #1 | .86605 | .11668 | 4.1224 | .20349 | 2.8337 | .00157 | -.00220 | 3.2887 | .00546 |
| #2 | .87155 | .11693 | 4.1206 | .20498 | 2.8375 | -.00299 | -.00534 | 3.2360 | .00538 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44407** | **.03828** | **.60865** | **-.00846** | W **-.07914** | **.15644** | **.62978** | **.04174** |
| Stddev | .00382 | .00183 | .00195 | .00007 | .00917 | .00001 | .00072 | .00058 |
| %RSD | .85937 | 4.7934 | .32017 | .85545 | 11.583 | .00437 | .11441 | 1.3892 |
| #1 | .44677 | .03698 | .60727 | -.00851 | -.07266 | .15644 | .62927 | .04133 |
| #2 | .44137 | .03957 | .61003 | -.00841 | -.08562 | .15644 | .63029 | .04215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7191.9** | **96105.** | **6451.3** |
| Stddev | 7.5 | 70. | 27.1 |
| %RSD | .10452 | .07233 | .42052 |
| #1 | 7186.6 | 96056. | 6432.1 |
| #2 | 7197.2 | 96154. | 6470.4 |

Sample Name: 280-42043-A-6-A Acquired: 5/21/2013 13:41:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00161** | **87.619** | **.04906** | **.02185** | **.38109** | **.00358** | **-.00114** | **160.60** | **.00466** |
| Stddev | .00040 | 1.120 | .00074 | .00046 | .00352 | .00014 | .00046 | 2.19 | .00003 |
| %RSD | 24.936 | 1.2783 | 1.5078 | 2.1048 | .92372 | 3.7937 | 40.268 | 1.3636 | .59733 |
| #1 | .00190 | 86.827 | .04854 | .02153 | .37860 | .00348 | -.00146 | 159.05 | .00464 |
| #2 | .00133 | 88.411 | .04958 | .02218 | .38358 | .00367 | -.00081 | 162.15 | .00468 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05959** | **.12447** | **.38390** | **307.76** | **8.9849** | **.14158** | **34.878** | W **14.021** | **.00835** |
| Stddev | .00033 | .00024 | .00057 | 3.08 | .1280 | .00021 | .001 | .003 | .00018 |
| %RSD | .56197 | .19494 | .14925 | .99982 | 1.4242 | .14683 | .00374 | .02260 | 2.1086 |
| #1 | .05936 | .12464 | .38430 | 305.58 | 8.8944 | .14173 | 34.877 | 14.023 | .00847 |
| #2 | .05983 | .12430 | .38349 | 309.94 | 9.0754 | .14143 | 34.879 | 14.018 | .00822 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68909** | **.14218** | **4.7158** | **.18492** | **.49943** | **-.00276** | **.00227** | **2.8915** | **.01086** |
| Stddev | .01527 | .00001 | .0101 | .00070 | .00139 | .00087 | .00052 | .0811 | .00011 |
| %RSD | 2.2161 | .00525 | .21376 | .37684 | .27899 | 31.374 | 22.854 | 2.8054 | 1.0010 |
| #1 | .67830 | .14218 | 4.7229 | .18541 | .50042 | -.00338 | .00264 | 2.9489 | .01078 |
| #2 | .69989 | .14219 | 4.7087 | .18443 | .49845 | -.00215 | .00191 | 2.8342 | .01093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18205** | **.05855** | **.44813** | W **-.01188** | **-.04661** | **.15917** | **2.0640** | **.05306** |
| Stddev | .00222 | .00134 | .00008 | .00077 | .00091 | .00031 | .0026 | .00078 |
| %RSD | 1.2169 | 2.2838 | .01874 | 6.4869 | 1.9580 | .19363 | .12561 | 1.4779 |
| #1 | .18048 | .05949 | .44807 | -.01134 | -.04726 | .15938 | 2.0658 | .05362 |
| #2 | .18361 | .05760 | .44819 | -.01243 | -.04597 | .15895 | 2.0621 | .05251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7510.4** | **101480.** | **6689.2** |
| Stddev | 5.9 | 267. | 83.2 |
| %RSD | .07832 | .26285 | 1.2432 |
| #1 | 7506.3 | 101660. | 6748.0 |
| #2 | 7514.6 | 101290. | 6630.4 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 13:43:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00180** | **49.955** | **-.00031** | **.00237** | **.00013** | **-.00006** | **.98857** | **.01761** | **-.00077** | **.00204** | **-.00018** | **.00114** | **50.143** |
| Stddev | .00011 | .122 | .00139 | .00100 | .00033 | .00001 | .00667 | .00064 | .00033 | .00022 | .00001 | .00005 | .022 |
| %RSD | 6.2000 | .24498 | 443.74 | 42.148 | 247.68 | 10.023 | .67421 | 3.6186 | 43.286 | 10.892 | 6.6386 | 4.4547 | .04408 |
| #1 | .00188 | 50.042 | -.00129 | .00308 | -.00010 | -.00005 | .99328 | .01716 | -.00054 | .00220 | -.00017 | .00110 | 50.159 |
| #2 | .00172 | 49.869 | .00067 | .00166 | .00037 | -.00006 | .98386 | .01806 | -.00101 | .00188 | -.00019 | .00118 | 50.128 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **-.00067** | **-.00417** | **.00004** | **-.00171** | **247.66** | **.00073** | **.00557** | **-.00050** | **4.8793** | **.00136** | **.00208** | **.01087** |
| Stddev | .00835 | .00061 | .00207 | .00002 | .00000 | 1.37 | .00007 | .00129 | .00015 | .0150 | .00002 | .00153 | .00457 |
| %RSD | 2467.1 | 91.689 | 49.639 | 47.748 | .12505 | .55163 | 9.9123 | 23.170 | 30.324 | .30849 | 1.8272 | 73.620 | 42.032 |
| #1 | -.00557 | -.00023 | -.00563 | .00006 | -.00170 | 248.63 | .00078 | .00648 | -.00040 | 4.8900 | .00138 | .00100 | .01410 |
| #2 | .00624 | -.00110 | -.00271 | .00003 | -.00171 | 246.69 | .00068 | .00466 | -.00061 | 4.8687 | .00134 | .00317 | .00764 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00031** | **5.0387** | **.00233** | **-.00028** | **9.9201** | **.00003** | **.00336** | **-.03153** |
| Stddev | .00045 | .00014 | .0158 | .00033 | .00112 | .0109 | .00013 | .00012 | .00037 |
| %RSD | 1046.3 | 45.539 | .31315 | 13.980 | 397.83 | .11020 | 385.36 | 3.6559 | 1.1748 |
| #1 | .00036 | .00041 | 5.0499 | .00210 | -.00107 | 9.9278 | .00013 | .00344 | -.03179 |
| #2 | -.00027 | .00021 | 5.0276 | .00256 | .00051 | 9.9124 | -.00006 | .00327 | -.03127 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6649.2** | **87484.** | **5670.2** |
| Stddev | 34.2 | 19. | 19.5 |
| %RSD | .51370 | .02134 | .34326 |
| #1 | 6625.0 | 87471. | 5656.4 |
| #2 | 6673.3 | 87497. | 5684.0 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 13:46:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51368** | **.50180** | **.98602** | **.48932** | **.49993** | **.47870** | **.00082** | **5.0062** | **.50831** | **.51259** | **.49785** | **.49434** | **2.4819** |
| Stddev | .00157 | .00050 | .00333 | .00015 | .00213 | .00198 | .00037 | .0005 | .00044 | .00030 | .00032 | .00077 | .0094 |
| %RSD | .30546 | .09993 | .33751 | .03066 | .42638 | .41453 | 45.134 | .01032 | .08661 | .05947 | .06484 | .15591 | .38047 |
| #1 | .51479 | .50145 | .98366 | .48922 | .50144 | .48010 | .00108 | 5.0066 | .50800 | .51237 | .49762 | .49489 | 2.4886 |
| #2 | .51257 | .50216 | .98837 | .48943 | .49843 | .47730 | .00056 | 5.0058 | .50862 | .51280 | .49808 | .49380 | 2.4753 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.643** | **.99218** | **19.911** | **.50272** | **.49687** | **4.8944** | **.50470** | **.96589** | **1.0265** | **.00035** | **1.0113** | **.98443** | **4.8948** |
| Stddev | .262 | .00664 | .010 | .00033 | .00078 | .0382 | .00007 | .00469 | .0023 | .00286 | .0001 | .00055 | .0056 |
| %RSD | .52868 | .66918 | .05108 | .06623 | .15667 | .78047 | .01289 | .48575 | .22488 | 815.24 | .01000 | .05607 | .11409 |
| #1 | 49.829 | .99687 | 19.918 | .50248 | .49632 | 4.9215 | .50474 | .96258 | 1.0248 | .00237 | 1.0113 | .98482 | 4.8987 |
| #2 | 49.457 | .98748 | 19.904 | .50295 | .49742 | 4.8674 | .50465 | .96921 | 1.0281 | -.00167 | 1.0112 | .98404 | 4.8908 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0018** | **.48389** | **.00103** | **.50593** | **1.0276** | **-.02169** | **.49038** | **.50206** | **.50206** |
| Stddev | .0008 | .00369 | .00042 | .00093 | .0009 | .00238 | .00052 | .00119 | .00242 |
| %RSD | .07709 | .76198 | 40.549 | .18398 | .08870 | 10.997 | .10567 | .23777 | .48225 |
| #1 | 1.0012 | .48650 | .00073 | .50527 | 1.0270 | -.02000 | .49001 | .50121 | .50378 |
| #2 | 1.0023 | .48128 | .00132 | .50658 | 1.0283 | -.02337 | .49075 | .50290 | .50035 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6757.9** | **91383.** | **5800.0** |
| Stddev | 1.2 | 216. | 48.9 |
| %RSD | .01829 | .23632 | .84252 |
| #1 | 6758.7 | 91536. | 5765.5 |
| #2 | 6757.0 | 91231. | 5834.6 |

Sample Name: CCB Acquired: 5/21/2013 13:48:15 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **-.00010** | **.00163** | W **.00176** | **-.00054** | **.00000** | **-.00009** | **.00317** | **.00005** | **.00001** | **-.00009** |
| Stddev | .00029 | .00030 | .00220 | .00035 | .00004 | .00001 | .00081 | .00126 | .00005 | .00017 | .00003 |
| %RSD | 152.13 | 309.99 | 134.42 | 19.999 | 6.7538 | 242.94 | 871.34 | 39.713 | 90.575 | 1652.4 | 33.548 |
| #1 | .00039 | .00012 | .00008 | .00201 | -.00057 | -.00000 | .00048 | .00406 | .00002 | .00013 | -.00007 |
| #2 | -.00001 | -.00031 | .00319 | .00151 | -.00052 | .00001 | -.00066 | .00228 | .00008 | -.00011 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **.00226** | **-.02953** | **-.00141** | **.00059** | **.00021** | **.00020** | **-.01656** | **-.00022** | **.00045** | **-.00032** |
| Stddev | .00011 | .00045 | .04845 | .00059 | .00015 | .00007 | .00009 | .01679 | .00004 | .00233 | .00102 |
| %RSD | 22.863 | 19.835 | 164.11 | 41.564 | 25.011 | 33.834 | 42.977 | 101.43 | 17.310 | 522.78 | 318.24 |
| #1 | -.00055 | .00194 | .00474 | -.00182 | .00048 | .00016 | .00014 | -.02843 | -.00020 | -.00120 | .00040 |
| #2 | -.00040 | .00257 | -.06379 | -.00099 | .00069 | .00026 | .00026 | -.00468 | -.00025 | .00210 | -.00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00215** | W **.00415** | **-.00129** | **-.00029** | **.00066** | **-.00009** | **.00073** | **-.00004** | **.00082** | **-.01389** | **-.00007** |
| Stddev | .00175 | .00159 | .00007 | .00214 | .00029 | .00016 | .00092 | .00005 | .00012 | .03335 | .00003 |
| %RSD | 81.574 | 38.388 | 5.7535 | 734.45 | 44.966 | 169.28 | 125.86 | 119.08 | 14.654 | 240.18 | 39.707 |
| #1 | .00091 | .00303 | -.00134 | -.00180 | .00045 | .00002 | .00139 | -.00001 | .00073 | .00970 | -.00009 |
| #2 | .00339 | .00528 | -.00124 | .00122 | .00086 | -.00020 | .00008 | -.00007 | .00090 | -.03747 | -.00005 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00235** | **.00007** |
| Stddev | .00005 | .00004 |
| %RSD | 2.3262 | 62.337 |
| #1 | .00231 | .00004 |
| #2 | .00239 | .00009 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6725.2** | **91036.** | **5727.7** |
| Stddev | 3.2 | 76. | 5.5 |
| %RSD | .04798 | .08300 | .09676 |
| #1 | 6722.9 | 90982. | 5723.8 |
| #2 | 6727.5 | 91089. | 5731.7 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 13:50:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01130** | **.10586** | **.01540** | **.09820** | **.01037** | **.00094** | **.11075** | **.23264** | **.00528** | **.01081** | **.01021** |
| Stddev | .00023 | .00018 | .00270 | .00112 | .00009 | .00004 | .00028 | .00144 | .00002 | .00006 | .00003 |
| %RSD | 2.0520 | .17077 | 17.514 | 1.1411 | .85299 | 3.9657 | .25020 | .61805 | .40916 | .57735 | .28326 |
| #1 | .01146 | .10599 | .01350 | .09899 | .01031 | .00097 | .11094 | .23366 | .00530 | .01086 | .01023 |
| #2 | .01113 | .10573 | .01731 | .09741 | .01043 | .00092 | .11055 | .23162 | .00527 | .01077 | .01019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01485** | **.11814** | **3.0941** | **.00907** | **.21037** | **.01065** | **.02039** | **1.0248** | **.04188** | **2.8876** | **.00864** |
| Stddev | .00046 | .00152 | .0457 | .00023 | .00512 | .00007 | .00005 | .0081 | .00037 | .0109 | .00095 |
| %RSD | 3.0932 | 1.2897 | 1.4756 | 2.4915 | 2.4326 | .64635 | .26949 | .79226 | .87231 | .37588 | 11.037 |
| #1 | .01517 | .11706 | 3.1263 | .00891 | .21398 | .01070 | .02035 | 1.0190 | .04214 | 2.8953 | .00932 |
| #2 | .01453 | .11921 | 3.0618 | .00923 | .20675 | .01061 | .02043 | 1.0305 | .04162 | 2.8799 | .00797 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00376** | **.01135** | **.01389** | **.49718** | **.10368** | **.01012** | **.01322** | **.01026** | **.01649** | F **.08815** | **.00992** |
| Stddev | .00192 | .00134 | .00052 | .00689 | .00025 | .00005 | .00013 | .00011 | .00060 | .00840 | .00009 |
| %RSD | 50.992 | 11.801 | 3.7380 | 1.3861 | .24225 | .47290 | .96090 | 1.0712 | 3.6245 | 9.5250 | .93580 |
| #1 | .00240 | .01040 | .01352 | .49231 | .10350 | .01015 | .01313 | .01019 | .01607 | .08222 | .00999 |
| #2 | .00511 | .01229 | .01425 | .50205 | .10386 | .01008 | .01331 | .01034 | .01691 | .09409 | .00986 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02513** | **.01583** |
| Stddev | .00039 | .00019 |
| %RSD | 1.5480 | 1.1723 |
| #1 | .02486 | .01569 |
| #2 | .02541 | .01596 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6702.6** | **91185.** | **5787.0** |
| Stddev | 6.4 | 107. | 19.9 |
| %RSD | .09546 | .11748 | .34465 |
| #1 | 6707.1 | 91261. | 5801.1 |
| #2 | 6698.1 | 91109. | 5772.9 |

Sample Name: 280-42043-A-7-A  Acquired: 5/21/2013 13:53:08  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **58.235** | **.06406** | **.01935** | **.23832** | **.00197** | **-.00163** | **217.61** | **.00154** |
| Stddev | .00008 | .206 | .00091 | .00056 | .00157 | .00001 | .00298 | .66 | .00005 |
| %RSD | 8.4823 | .35292 | 1.4254 | 2.8710 | .65677 | .74661 | 183.36 | .30224 | 3.1255 |
| #1 | .00085 | 58.090 | .06471 | .01974 | .23722 | .00196 | -.00373 | 217.15 | .00150 |
| #2 | .00096 | 58.381 | .06341 | .01896 | .23943 | .00198 | .00048 | 218.08 | .00157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04462** | **.07278** | **.17912** | **132.37** | **6.2157** | **.10048** | **25.162** | **7.5298** | **.00159** |
| Stddev | .00034 | .00037 | .00002 | .10 | .0281 | .00019 | .003 | .0782 | .00000 |
| %RSD | .76618 | .50507 | .01395 | .07400 | .45141 | .19101 | .01366 | 1.0382 | .18439 |
| #1 | .04486 | .07304 | .17911 | 132.30 | 6.2355 | .10061 | 25.165 | 7.4746 | .00159 |
| #2 | .04438 | .07252 | .17914 | 132.44 | 6.1958 | .10034 | 25.160 | 7.5851 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.64261** | **.09290** | **4.3256** | **.05332** | **1.2008** | **-.00180** | **-.00014** | **2.7431** | **.00422** |
| Stddev | .00177 | .00009 | .0080 | .00112 | .0093 | .00143 | .00318 | .0347 | .00054 |
| %RSD | .27579 | .09200 | .18516 | 2.0962 | .77290 | 79.401 | 2222.1 | 1.2640 | 12.824 |
| #1 | .64136 | .09296 | 4.3313 | .05253 | 1.2074 | -.00079 | -.00239 | 2.7676 | .00383 |
| #2 | .64386 | .09284 | 4.3200 | .05411 | 1.1943 | -.00281 | .00210 | 2.7186 | .00460 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22684** | **.03599** | **.34043** | **-.00564** | **-.04619** | **.11423** | **.31344** | **.03287** |
| Stddev | .00031 | .00148 | .00325 | .00024 | .00096 | .00000 | .00043 | .00033 |
| %RSD | .13820 | 4.1002 | .95421 | 4.2843 | 2.0758 | .00005 | .13749 | 1.0167 |
| #1 | .22662 | .03494 | .33814 | -.00581 | -.04687 | .11423 | .31374 | .03264 |
| #2 | .22706 | .03703 | .34273 | -.00547 | -.04551 | .11423 | .31313 | .03311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6960.0** | **93939.** | **6211.1** |
| Stddev | 1.2 | 224. | 2.5 |
| %RSD | .01669 | .23795 | .04100 |
| #1 | 6960.8 | 94097. | 6209.3 |
| #2 | 6959.2 | 93781. | 6212.9 |

Sample Name: sd 280-42043-A-7-A@5 Acquired: 5/21/2013 13:55:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **12.508** | **.01407** | **.00521** | **.05112** | **.00039** | **.00018** | **46.578** | **.00047** |
| Stddev | .00045 | .067 | .00232 | .00016 | .00035 | .00012 | .00067 | .097 | .00005 |
| %RSD | 606.21 | .53681 | 16.499 | 3.0183 | .68361 | 30.710 | 378.66 | .20765 | 10.766 |
| #1 | .00039 | 12.460 | .01571 | .00532 | .05087 | .00031 | -.00030 | 46.510 | .00051 |
| #2 | -.00024 | 12.555 | .01243 | .00510 | .05137 | .00048 | .00065 | 46.647 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00964** | **.01561** | **.03675** | **27.729** | **1.2928** | **.02115** | **5.4794** | **1.6456** | **.00045** |
| Stddev | .00002 | .00004 | .00024 | .038 | .0335 | .00235 | .0159 | .0044 | .00018 |
| %RSD | .22906 | .26604 | .64902 | .13622 | 2.5883 | 11.123 | .29102 | .26994 | 39.023 |
| #1 | .00966 | .01563 | .03691 | 27.703 | 1.3165 | .02282 | 5.4907 | 1.6487 | .00033 |
| #2 | .00963 | .01558 | .03658 | 27.756 | 1.2691 | .01949 | 5.4681 | 1.6424 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08669** | **.02022** | **.91140** | **.01049** | **.25172** | **.00210** | **.00011** | **.60300** | **.00060** |
| Stddev | .00398 | .00012 | .00027 | .00081 | .00191 | .00019 | .00314 | .01523 | .00028 |
| %RSD | 4.5933 | .60633 | .02989 | 7.7081 | .75798 | 9.1787 | 2891.0 | 2.5260 | 47.435 |
| #1 | .08387 | .02013 | .91120 | .01106 | .25307 | .00196 | -.00211 | .61377 | .00080 |
| #2 | .08950 | .02030 | .91159 | .00992 | .25037 | .00224 | .00233 | .59223 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04907** | **.00652** | **.07434** | **.00013** | **-.01154** | **.02410** | **.07186** | **.00625** |
| Stddev | .00008 | .00149 | .00132 | .00074 | .01737 | .00023 | .00042 | .00212 |
| %RSD | .16082 | 22.836 | 1.7797 | 571.48 | 150.53 | .96427 | .58038 | 33.937 |
| #1 | .04901 | .00758 | .07341 | .00066 | -.02381 | .02427 | .07215 | .00774 |
| #2 | .04913 | .00547 | .07528 | -.00040 | .00074 | .02394 | .07156 | .00475 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6792.3** | **91442.** | **5847.3** |
| Stddev | 8.2 | 336. | 2.6 |
| %RSD | .12023 | .36797 | .04414 |
| #1 | 6798.1 | 91204. | 5849.1 |
| #2 | 6786.5 | 91680. | 5845.4 |

Sample Name: 280-42043-A-7-B MS  Acquired: 5/21/2013 13:57:57  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05048** | **79.572** | **.93080** | **.90514** | **2.1047** | **.04578** | **1.8635** | W **547.33** | **.09467** |
| Stddev | .00014 | .330 | .00199 | .00259 | .0090 | .00027 | .0037 | .82 | .00025 |
| %RSD | .27245 | .41436 | .21345 | .28578 | .42584 | .59038 | .19695 | .14968 | .26188 |
| #1 | .05057 | 79.806 | .92940 | .90697 | 2.1111 | .04597 | 1.8661 | 546.75 | .09484 |
| #2 | .05038 | 79.339 | .93221 | .90331 | 2.0984 | .04559 | 1.8610 | 547.91 | .09449 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47312** | **.26660** | **.39690** | **117.78** | **62.868** | **1.0158** | **69.755** | **6.7963** | **.87023** |
| Stddev | .00086 | .00070 | .00147 | .48 | .330 | .0055 | .002 | .0840 | .00201 |
| %RSD | .18155 | .26344 | .36928 | .40416 | .52448 | .54409 | .00298 | 1.2354 | .23040 |
| #1 | .47373 | .26710 | .39586 | 118.12 | 63.101 | 1.0197 | 69.757 | 6.8557 | .87165 |
| #2 | .47251 | .26611 | .39793 | 117.45 | 62.635 | 1.0119 | 69.754 | 6.7369 | .86881 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.785** | **.50422** | **12.658** | **.48376** | **2.2522** | **.32349** | **1.7340** | **5.0791** | **1.6709** |
| Stddev | .259 | .00084 | .031 | .00096 | .0029 | .00140 | .0068 | .0048 | .0035 |
| %RSD | .54194 | .16613 | .24341 | .19858 | .13087 | .43296 | .39178 | .09524 | .20731 |
| #1 | 47.968 | .50481 | 12.680 | .48443 | 2.2543 | .32448 | 1.7388 | 5.0825 | 1.6734 |
| #2 | 47.602 | .50363 | 12.636 | .48308 | 2.2501 | .32250 | 1.7292 | 5.0756 | 1.6685 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3556** | **.94447** | **1.3857** | **1.6604** | **1.8564** | **.59272** | **.70386** | **.49968** |
| Stddev | .0100 | .00077 | .0017 | .0041 | .0283 | .00079 | .00255 | .00187 |
| %RSD | .73982 | .08106 | .11883 | .24667 | 1.5264 | .13350 | .36285 | .37388 |
| #1 | 1.3627 | .94393 | 1.3845 | 1.6633 | 1.8364 | .59328 | .70567 | .49835 |
| #2 | 1.3485 | .94501 | 1.3868 | 1.6575 | 1.8764 | .59216 | .70205 | .50100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6668.5** | **89844.** | **6038.0** |
| Stddev | 10.4 | 398. | 26.0 |
| %RSD | .15550 | .44341 | .43106 |
| #1 | 6661.2 | 89562. | 6019.6 |
| #2 | 6675.9 | 90125. | 6056.4 |

Sample Name: 280-42043-A-7-C MSD Acquired: 5/21/2013 14:00:53 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05414** | **91.502** | **.90728** | **.85294** | **2.2025** | **.04747** | **1.7631** | **470.93** | **.08933** |
| Stddev | .00015 | 1.376 | .01573 | .00830 | .0339 | .00067 | .0204 | 8.31 | .00105 |
| %RSD | .27586 | 1.5041 | 1.7343 | .97267 | 1.5388 | 1.4158 | 1.1561 | 1.7636 | 1.1794 |
| #1 | .05404 | 90.529 | .91841 | .85881 | 2.1785 | .04700 | 1.7776 | 465.05 | .09008 |
| #2 | .05425 | 92.476 | .89615 | .84707 | 2.2265 | .04795 | 1.7487 | 476.80 | .08859 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45812** | **.25309** | **.47035** | **135.83** | **65.363** | **1.0536** | **79.555** | W **11.284** | **.81575** |
| Stddev | .00468 | .00291 | .00318 | 1.98 | .886 | .0120 | .646 | .029 | .00830 |
| %RSD | 1.0223 | 1.1500 | .67566 | 1.4556 | 1.3551 | 1.1428 | .81231 | .25254 | 1.0174 |
| #1 | .46143 | .25514 | .46810 | 134.43 | 64.736 | 1.0451 | 79.098 | 11.264 | .82162 |
| #2 | .45480 | .25103 | .47259 | 137.23 | 65.989 | 1.0621 | 80.012 | 11.304 | .80989 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.957** | **.48172** | **12.705** | **.45908** | **1.0743** | **.28890** | **1.6311** | **5.6090** | **1.5723** |
| Stddev | .299 | .00514 | .156 | .00391 | .0069 | .00633 | .0187 | .1335 | .0148 |
| %RSD | .60979 | 1.0665 | 1.2310 | .85103 | .64091 | 2.1910 | 1.1450 | 2.3792 | .94341 |
| #1 | 48.745 | .48536 | 12.815 | .46184 | 1.0792 | .29338 | 1.6443 | 5.5147 | 1.5828 |
| #2 | 49.168 | .47809 | 12.594 | .45631 | 1.0695 | .28443 | 1.6179 | 5.7034 | 1.5618 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3797** | **1.0090** | **1.4992** | **1.5695** | **1.9404** | **.63857** | **.79501** | **.51254** |
| Stddev | .0170 | .0085 | .0130 | .0161 | .0089 | .00511 | .00509 | .00884 |
| %RSD | 1.2301 | .84125 | .86734 | 1.0255 | .46009 | .79996 | .64007 | 1.7250 |
| #1 | 1.3677 | 1.0030 | 1.4900 | 1.5809 | 1.9341 | .63495 | .79141 | .50629 |
| #2 | 1.3917 | 1.0150 | 1.5084 | 1.5581 | 1.9467 | .64218 | .79861 | .51879 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7062.1** | **87121.** | **5981.4** |
| Stddev | 51.6 | 632. | 40.1 |
| %RSD | .73015 | .72515 | .67034 |
| #1 | 7025.6 | 87567. | 6009.8 |
| #2 | 7098.6 | 86674. | 5953.1 |

Sample Name: pds 280-42043-A-7-A  Acquired: 5/21/2013 14:03:17  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04673** | **58.814** | **.24165** | **.10898** | **.33868** | **.04786** | **-.00013** | **235.31** | **.05005** |
| Stddev | .00062 | .960 | .00033 | .00060 | .01110 | .00074 | .00099 | 6.38 | .00010 |
| %RSD | 1.3235 | 1.6325 | .13831 | .54784 | 3.2775 | 1.5521 | 778.94 | 2.7131 | .19818 |
| #1 | .04629 | 59.493 | .24188 | .10940 | .34652 | .04838 | .00057 | 239.83 | .04998 |
| #2 | .04716 | 58.135 | .24141 | .10856 | .33083 | .04733 | -.00083 | 230.80 | .05012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09022** | **.11699** | **.22158** | **132.17** | **25.539** | **.19978** | **42.459** | **7.3012** | **.04743** |
| Stddev | .00042 | .00011 | .00019 | 1.84 | .438 | .00511 | .088 | .0776 | .00016 |
| %RSD | .46723 | .09572 | .08589 | 1.3914 | 1.7166 | 2.5579 | .20775 | 1.0626 | .33015 |
| #1 | .09051 | .11707 | .22172 | 133.47 | 25.849 | .20339 | 42.521 | 7.2464 | .04754 |
| #2 | .08992 | .11691 | .22145 | 130.87 | 25.229 | .19616 | 42.396 | 7.3561 | .04732 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.928** | **.13511** | **6.0422** | **.14485** | **1.1835** | **.09345** | **.18876** | **7.3359** | **.09379** |
| Stddev | .267 | .00002 | .0084 | .00101 | .0045 | .00045 | .00000 | .1533 | .00035 |
| %RSD | 1.2771 | .01351 | .13926 | .69645 | .38251 | .48461 | .00255 | 2.0896 | .37493 |
| #1 | 21.117 | .13512 | 6.0482 | .14413 | 1.1867 | .09377 | .18875 | 7.4443 | .09404 |
| #2 | 20.739 | .13509 | 6.0363 | .14556 | 1.1803 | .09313 | .18876 | 7.2275 | .09354 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27401** | **.22534** | **.37934** | **.17975** | **.42940** | **.15802** | **.48702** | **.08128** |
| Stddev | .00768 | .00119 | .00114 | .00105 | .01000 | .00017 | .00097 | .00442 |
| %RSD | 2.8045 | .52683 | .30114 | .58495 | 2.3289 | .10943 | .20006 | 5.4330 |
| #1 | .27944 | .22618 | .37853 | .17901 | .43648 | .15815 | .48771 | .08440 |
| #2 | .26857 | .22450 | .38015 | .18049 | .42233 | .15790 | .48633 | .07816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6961.0** | **93951.** | **6119.9** |
| Stddev | 2.5 | 16. | 62.3 |
| %RSD | .03582 | .01681 | 1.0187 |
| #1 | 6959.3 | 93962. | 6075.8 |
| #2 | 6962.8 | 93940. | 6163.9 |

Sample Name: 280-42043-A-8-A  Acquired: 5/21/2013 14:05:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **69.279** | **.11250** | **.01922** | **.28942** | **.00273** | **-.00186** | **154.83** | **.00223** |
| Stddev | .00006 | .250 | .00162 | .00006 | .00168 | .00021 | .00095 | .50 | .00030 |
| %RSD | 7.4810 | .36081 | 1.4380 | .31435 | .58125 | 7.7883 | 51.185 | .32547 | 13.403 |
| #1 | .00081 | 69.103 | .11136 | .01918 | .28823 | .00288 | -.00119 | 154.48 | .00245 |
| #2 | .00090 | 69.456 | .11364 | .01926 | .29061 | .00258 | -.00253 | 155.19 | .00202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04485** | **.09247** | **.20707** | **149.27** | **7.1192** | **.10834** | **27.246** | **7.5099** | **.00572** |
| Stddev | .00034 | .00018 | .00054 | .83 | .0310 | .00082 | .082 | .0806 | .00012 |
| %RSD | .75654 | .19645 | .26240 | .55753 | .43553 | .75958 | .30219 | 1.0738 | 2.0352 |
| #1 | .04509 | .09234 | .20745 | 148.68 | 7.1411 | .10776 | 27.188 | 7.4529 | .00580 |
| #2 | .04461 | .09259 | .20668 | 149.85 | 7.0973 | .10893 | 27.304 | 7.5669 | .00564 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76873** | **.09933** | **4.4942** | **.07154** | **1.5349** | **-.00235** | **.00083** | **2.6177** | **.00503** |
| Stddev | .00665 | .00040 | .0061 | .00159 | .0036 | .00251 | .00732 | .0500 | .00011 |
| %RSD | .86441 | .40224 | .13519 | 2.2256 | .23247 | 106.84 | 885.81 | 1.9104 | 2.2048 |
| #1 | .77343 | .09962 | 4.4985 | .07042 | 1.5375 | -.00057 | .00600 | 2.6531 | .00510 |
| #2 | .76404 | .09905 | 4.4899 | .07267 | 1.5324 | -.00412 | -.00435 | 2.5824 | .00495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17543** | **.04065** | **.53657** | **-.00582** | **-.02973** | **.12531** | **.40684** | **.03898** |
| Stddev | .00008 | .00033 | .00463 | .00205 | .00382 | .00001 | .00370 | .00235 |
| %RSD | .04678 | .82027 | .86316 | 35.259 | 12.832 | .01066 | .90856 | 6.0328 |
| #1 | .17537 | .04089 | .53330 | -.00437 | -.03243 | .12532 | .40422 | .04064 |
| #2 | .17549 | .04042 | .53985 | -.00727 | -.02704 | .12530 | .40945 | .03731 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7107.2** | **95073.** | **6233.8** |
| Stddev | 1.3 | 214. | .5 |
| %RSD | .01790 | .22537 | .00790 |
| #1 | 7108.1 | 95225. | 6233.4 |
| #2 | 7106.3 | 94922. | 6234.1 |

Sample Name: 280-42043-A-9-A  Acquired: 5/21/2013 14:08:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **72.210** | **.04177** | **.01804** | **.28073** | **.00315** | **-.00178** | **18.295** | **.00154** |
| Stddev | .00026 | .404 | .00127 | .00053 | .00096 | .00001 | .00020 | .065 | .00019 |
| %RSD | 21.894 | .55889 | 3.0464 | 2.9557 | .34037 | .37206 | 11.246 | .35733 | 12.517 |
| #1 | .00135 | 71.925 | .04267 | .01766 | .28005 | .00314 | -.00192 | 18.249 | .00168 |
| #2 | .00099 | 72.496 | .04087 | .01841 | .28140 | .00316 | -.00164 | 18.342 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04927** | **.09410** | **.28732** | **202.87** | **8.3969** | **.13397** | **30.003** | **8.6276** | **.00491** |
| Stddev | .00003 | .00024 | .00164 | 1.15 | .0165 | .00058 | .154 | .0259 | .00016 |
| %RSD | .06856 | .25629 | .56966 | .56643 | .19656 | .43659 | .51274 | .30027 | 3.1841 |
| #1 | .04929 | .09427 | .28848 | 202.06 | 8.4086 | .13355 | 30.112 | 8.6459 | .00502 |
| #2 | .04924 | .09393 | .28616 | 203.68 | 8.3852 | .13438 | 29.895 | 8.6093 | .00480 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54635** | **.12747** | **4.5363** | **.03693** | **.10421** | **-.00255** | **.00362** | **2.6949** | **.00565** |
| Stddev | .01181 | .00015 | .0091 | .00019 | .00117 | .00010 | .00338 | .0056 | .00034 |
| %RSD | 2.1612 | .12074 | .20122 | .51586 | 1.1228 | 4.0003 | 93.236 | .20814 | 6.0809 |
| #1 | .53800 | .12758 | 4.5427 | .03679 | .10338 | -.00248 | .00601 | 2.6909 | .00590 |
| #2 | .55470 | .12736 | 4.5298 | .03706 | .10503 | -.00262 | .00123 | 2.6988 | .00541 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05433** | **.04426** | **.27562** | **-.00745** | **-.03174** | **.12504** | **.48353** | **.04856** |
| Stddev | .00000 | .00132 | .00633 | .00196 | .00353 | .00033 | .00106 | .00213 |
| %RSD | .00308 | 2.9802 | 2.2972 | 26.343 | 11.115 | .26348 | .21924 | 4.3888 |
| #1 | .05433 | .04519 | .28009 | -.00606 | -.03423 | .12527 | .48428 | .04705 |
| #2 | .05433 | .04332 | .27114 | -.00883 | -.02924 | .12480 | .48278 | .05007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7493.3** | **100440.** | **6423.1** |
| Stddev | 2.5 | 373. | 5.3 |
| %RSD | .03360 | .37181 | .08243 |
| #1 | 7491.5 | 100170. | 6426.8 |
| #2 | 7495.0 | 100700. | 6419.3 |

Sample Name: 280-42043-A-10-A  Acquired: 5/21/2013 14:10:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00094** | **97.638** | **.04149** | **.02144** | **.30112** | **.00430** | **-.00035** | **74.345** | **.00288** |
| Stddev | .00023 | .044 | .00200 | .00007 | .00021 | .00003 | .00046 | .065 | .00001 |
| %RSD | 24.588 | .04456 | 4.8316 | .34726 | .06865 | .79791 | 131.11 | .08768 | .23713 |
| #1 | .00110 | 97.607 | .04007 | .02138 | .30098 | .00427 | -.00003 | 74.391 | .00289 |
| #2 | .00078 | 97.669 | .04290 | .02149 | .30127 | .00432 | -.00067 | 74.299 | .00288 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06282** | **.14090** | **.37942** | **197.01** | **8.5549** | **.15640** | **33.289** | **8.2044** | **.01520** |
| Stddev | .00017 | .00009 | .00172 | .30 | .0107 | .00134 | .102 | .0460 | .00028 |
| %RSD | .26582 | .06206 | .45405 | .15430 | .12534 | .85557 | .30562 | .56027 | 1.8328 |
| #1 | .06294 | .14084 | .38064 | 196.79 | 8.5473 | .15545 | 33.361 | 8.1719 | .01540 |
| #2 | .06271 | .14097 | .37820 | 197.22 | 8.5625 | .15734 | 33.217 | 8.2369 | .01500 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.9218** | **.14465** | **4.1955** | **.05880** | **.53524** | **-.00257** | **.00383** | **2.6444** | **.00633** |
| Stddev | .0067 | .00015 | .0030 | .00057 | .00084 | .00101 | .00142 | .0045 | .00060 |
| %RSD | .22806 | .10667 | .07160 | .97105 | .15709 | 39.206 | 37.019 | .16847 | 9.5084 |
| #1 | 2.9171 | .14476 | 4.1934 | .05840 | .53464 | -.00186 | .00483 | 2.6476 | .00676 |
| #2 | 2.9266 | .14454 | 4.1976 | .05921 | .53583 | -.00328 | .00283 | 2.6413 | .00590 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10637** | **.05731** | **.46052** | **-.00755** | W **-.05916** | **.15473** | **.48867** | **.03541** |
| Stddev | .00054 | .00001 | .00072 | .00032 | .02093 | .00029 | .00144 | .00268 |
| %RSD | .50703 | .02453 | .15569 | 4.2977 | 35.377 | .18724 | .29499 | 7.5750 |
| #1 | .10676 | .05732 | .46103 | -.00732 | -.07396 | .15493 | .48969 | .03731 |
| #2 | .10599 | .05730 | .46002 | -.00778 | -.04436 | .15452 | .48765 | .03352 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7311.3** | **98473.** | **6452.2** |
| Stddev | 4.4 | 75. | 21.8 |
| %RSD | .05987 | .07618 | .33841 |
| #1 | 7314.4 | 98419. | 6436.8 |
| #2 | 7308.2 | 98526. | 6467.6 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 14:12:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00228** | **48.958** | **-.00188** | **.00301** | **.00019** | **-.00003** | **1.0004** | **.00413** | **-.00068** | **.00175** | **-.00012** | **.00091** | **49.081** |
| Stddev | .00013 | .138 | .00255 | .00033 | .00017 | .00015 | .0032 | .00165 | .00003 | .00002 | .00002 | .00026 | .006 |
| %RSD | 5.6474 | .28204 | 135.76 | 10.959 | 91.744 | 566.24 | .32379 | 39.966 | 4.7544 | 1.1580 | 17.085 | 28.705 | .01186 |
| #1 | .00237 | 49.056 | -.00008 | .00277 | .00031 | .00008 | 1.0027 | .00530 | -.00070 | .00177 | -.00011 | .00072 | 49.085 |
| #2 | .00219 | 48.861 | -.00368 | .00324 | .00007 | -.00013 | .99816 | .00296 | -.00066 | .00174 | -.00014 | .00109 | 49.077 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00882** | **-.00085** | **-.00433** | **-.00041** | **-.00143** | **243.84** | **.00078** | **.00619** | **.00086** | **4.9376** | **.00143** | **.00165** | **.01159** |
| Stddev | .02070 | .00169 | .00080 | .00008 | .00021 | .82 | .00002 | .00114 | .00033 | .0220 | .00049 | .00289 | .00546 |
| %RSD | 234.71 | 198.87 | 18.579 | 19.205 | 14.832 | .33619 | 2.9032 | 18.346 | 38.541 | .44504 | 34.376 | 175.32 | 47.069 |
| #1 | .02346 | -.00205 | -.00376 | -.00035 | -.00128 | 244.41 | .00080 | .00539 | .00109 | 4.9532 | .00178 | -.00040 | .01545 |
| #2 | -.00582 | .00035 | -.00490 | -.00046 | -.00158 | 243.26 | .00077 | .00699 | .00062 | 4.9221 | .00108 | .00369 | .00774 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.00024** | **5.0036** | **.00224** | **-.00090** | **9.8864** | **-.00049** | **.00316** | **-.03203** |
| Stddev | .00035 | .00011 | .0384 | .00019 | .00071 | .0507 | .00006 | .00008 | .00141 |
| %RSD | 41.645 | 43.940 | .76705 | 8.6307 | 78.829 | .51237 | 12.917 | 2.5782 | 4.3890 |
| #1 | .00109 | .00017 | 4.9765 | .00237 | -.00040 | 9.8506 | -.00053 | .00310 | -.03103 |
| #2 | .00059 | .00032 | 5.0307 | .00210 | -.00140 | 9.9222 | -.00044 | .00321 | -.03302 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6574.9** | **89399.** | **5779.2** |
| Stddev | 1.3 | 460. | 55.2 |
| %RSD | .01908 | .51409 | .95462 |
| #1 | 6575.8 | 89724. | 5740.1 |
| #2 | 6574.0 | 89074. | 5818.2 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 14:15:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51540** | **.49930** | **.98553** | **.48859** | **.50028** | **.47733** | **-.00253** | **5.0143** | **.50911** | **.51358** | **.49745** | **.49388** | **2.4874** |
| Stddev | .00010 | .00049 | .00131 | .00010 | .00315 | .00322 | .00020 | .0121 | .00011 | .00048 | .00052 | .00044 | .0048 |
| %RSD | .01859 | .09836 | .13330 | .02054 | .63061 | .67402 | 8.0050 | .24144 | .02102 | .09417 | .10360 | .08857 | .19179 |
| #1 | .51533 | .49895 | .98460 | .48866 | .49805 | .47506 | -.00238 | 5.0229 | .50919 | .51324 | .49708 | .49357 | 2.4841 |
| #2 | .51546 | .49964 | .98646 | .48852 | .50251 | .47961 | -.00267 | 5.0058 | .50904 | .51392 | .49781 | .49419 | 2.4908 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.661** | **.99616** | **19.827** | **.50383** | **.49611** | **4.9034** | **.50516** | **.96108** | **1.0266** | **.00056** | **1.0119** | **.97384** | **4.8970** |
| Stddev | .124 | .00410 | .058 | .00146 | .00088 | .0220 | .00020 | .00040 | .0008 | .00118 | .0018 | .00444 | .0221 |
| %RSD | .25038 | .41166 | .29036 | .28903 | .17826 | .44887 | .04045 | .04138 | .08238 | 212.53 | .17585 | .45639 | .45114 |
| #1 | 49.573 | .99326 | 19.868 | .50486 | .49673 | 4.8878 | .50530 | .96136 | 1.0272 | .00140 | 1.0131 | .97698 | 4.8813 |
| #2 | 49.749 | .99906 | 19.787 | .50280 | .49548 | 4.9190 | .50501 | .96080 | 1.0260 | -.00028 | 1.0106 | .97070 | 4.9126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99793** | **.48196** | **.00251** | **.50812** | **1.0257** | **-.00435** | **.49009** | **.50058** | **.50217** |
| Stddev | .00120 | .00166 | .00001 | .00115 | .0023 | .00228 | .00101 | .00395 | .00015 |
| %RSD | .12073 | .34514 | .56876 | .22607 | .21987 | 52.291 | .20617 | .78919 | .03071 |
| #1 | .99878 | .48078 | .00252 | .50894 | 1.0273 | -.00596 | .49080 | .50337 | .50228 |
| #2 | .99708 | .48314 | .00250 | .50731 | 1.0242 | -.00274 | .48937 | .49778 | .50206 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6701.5** | **90303.** | **5738.8** |
| Stddev | 6.1 | 752. | 13.7 |
| %RSD | .09035 | .83268 | .23874 |
| #1 | 6705.8 | 89771. | 5748.5 |
| #2 | 6697.2 | 90835. | 5729.1 |

Sample Name: CCB Acquired: 5/21/2013 14:17:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **-.00005** | **.00109** | W **.00192** | **.00005** | **.00001** | **-.00065** | **.00231** | **.00011** | **.00000** | **-.00012** |
| Stddev | .00060 | .00005 | .00162 | .00017 | .00019 | .00001 | .00238 | .00114 | .00001 | .00015 | .00019 |
| %RSD | 83.605 | 98.169 | 148.27 | 8.8496 | 374.59 | 53.759 | 366.77 | 49.286 | 11.014 | 9978.2 | 163.35 |
| #1 | .00029 | -.00001 | .00224 | .00204 | .00018 | .00001 | .00103 | .00150 | .00010 | .00011 | -.00025 |
| #2 | .00114 | -.00008 | -.00005 | .00180 | -.00008 | .00002 | -.00233 | .00311 | .00012 | -.00011 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.00217** | **.05116** | **-.00204** | **.00037** | **.00019** | **.00021** | **-.01741** | **-.00007** | **.00307** | **.00059** |
| Stddev | .00008 | .00159 | .02504 | .00028 | .00320 | .00002 | .00005 | .01281 | .00031 | .00297 | .00169 |
| %RSD | 10.969 | 73.067 | 48.950 | 13.543 | 855.94 | 11.141 | 23.511 | 73.593 | 415.30 | 96.680 | 288.01 |
| #1 | -.00067 | .00329 | .03345 | -.00223 | .00264 | .00020 | .00017 | -.00835 | -.00029 | .00097 | .00178 |
| #2 | -.00078 | .00105 | .06887 | -.00184 | -.00189 | .00017 | .00024 | -.02646 | .00014 | .00516 | -.00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | W **.00483** | **.00299** | **-.02167** | **.00048** | **.00007** | **.00000** | **.00015** | **.00070** | **.02498** | **-.00053** |
| Stddev | .00199 | .00187 | .00357 | .00727 | .00045 | .00018 | .00061 | .00031 | .00013 | .03131 | .00034 |
| %RSD | 195.47 | 38.617 | 119.20 | 33.529 | 94.597 | 236.39 | 26561. | 209.80 | 19.357 | 125.32 | 63.063 |
| #1 | -.00039 | .00351 | .00047 | -.02681 | .00016 | .00020 | -.00043 | .00037 | .00060 | .04712 | -.00030 |
| #2 | .00243 | .00615 | .00551 | -.01653 | .00080 | -.00005 | .00043 | -.00007 | .00079 | .00284 | -.00077 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00300** | **.00151** |
| Stddev | .00060 | .00174 |
| %RSD | 20.004 | 115.11 |
| #1 | .00342 | .00028 |
| #2 | .00257 | .00274 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6679.0** | **90405.** | **5703.6** |
| Stddev | 2.8 | 362. | 39.5 |
| %RSD | .04194 | .40052 | .69341 |
| #1 | 6677.0 | 90149. | 5675.7 |
| #2 | 6681.0 | 90661. | 5731.6 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 14:20:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01090** | **.10387** | **.01499** | **.09768** | **.01061** | **.00084** | **.10850** | **.21976** | **.00540** | **.01086** | **.01036** |
| Stddev | .00064 | .00027 | .00044 | .00021 | .00011 | .00010 | .00162 | .00100 | .00005 | .00025 | .00014 |
| %RSD | 5.8689 | .26266 | 2.9504 | .21779 | .99229 | 11.592 | 1.4975 | .45302 | 1.0079 | 2.3086 | 1.3966 |
| #1 | .01135 | .10406 | .01531 | .09784 | .01054 | .00091 | .10965 | .22046 | .00536 | .01069 | .01025 |
| #2 | .01045 | .10368 | .01468 | .09753 | .01068 | .00077 | .10735 | .21905 | .00544 | .01104 | .01046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01470** | **.11146** | **3.1683** | **.01066** | **.20960** | **.01068** | **.02059** | **1.0364** | **.04184** | **2.8770** | **.01017** |
| Stddev | .00005 | .00162 | .0317 | .00193 | .00371 | .00010 | .00003 | .0154 | .00002 | .0032 | .00169 |
| %RSD | .34955 | 1.4497 | .99925 | 18.062 | 1.7677 | .94784 | .14140 | 1.4836 | .04467 | .11262 | 16.574 |
| #1 | .01467 | .11260 | 3.1907 | .00930 | .21222 | .01075 | .02057 | 1.0473 | .04185 | 2.8747 | .00898 |
| #2 | .01474 | .11032 | 3.1459 | .01202 | .20698 | .01061 | .02061 | 1.0255 | .04183 | 2.8793 | .01137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **.01156** | **.01533** | **.49853** | **.10370** | **.01010** | **.01691** | **.01045** | **.01622** | **.05618** | **.00929** |
| Stddev | .00240 | .00015 | .00041 | .00557 | .00084 | .00008 | .00094 | .00026 | .00030 | .00113 | .00023 |
| %RSD | 251.41 | 1.2685 | 2.6588 | 1.1182 | .80682 | .80534 | 5.5362 | 2.5144 | 1.8474 | 2.0041 | 2.5223 |
| #1 | .00265 | .01146 | .01504 | .50247 | .10430 | .01016 | .01757 | .01064 | .01643 | .05538 | .00946 |
| #2 | -.00074 | .01167 | .01562 | .49459 | .10311 | .01005 | .01625 | .01027 | .01600 | .05698 | .00913 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02448** | **.01589** |
| Stddev | .00019 | .00110 |
| %RSD | .78658 | 6.8982 |
| #1 | .02434 | .01512 |
| #2 | .02461 | .01667 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6679.0** | **90772.** | **5645.9** |
| Stddev | 8.7 | 111. | 23.3 |
| %RSD | .13094 | .12260 | .41259 |
| #1 | 6672.8 | 90693. | 5629.5 |
| #2 | 6685.2 | 90850. | 5662.4 |

Sample Name: 280-42043-A-11-A  Acquired: 5/21/2013 14:22:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **85.009** | **.03788** | **.01901** | **.29497** | **.00367** | **-.00127** | **10.964** | **.00152** |
| Stddev | .00019 | .169 | .00282 | .00013 | .00074 | .00003 | .00103 | .043 | .00010 |
| %RSD | 17.012 | .19845 | 7.4461 | .70757 | .25034 | .85584 | 81.350 | .38903 | 6.5803 |
| #1 | .00123 | 85.128 | .03988 | .01891 | .29549 | .00365 | -.00200 | 10.994 | .00159 |
| #2 | .00097 | 84.889 | .03589 | .01910 | .29445 | .00369 | -.00054 | 10.934 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06438** | **.11776** | **.47589** | **195.95** | **9.1028** | **.15481** | **33.759** | **9.6868** | **.00911** |
| Stddev | .00006 | .00011 | .00100 | .68 | .0074 | .00003 | .178 | .0029 | .00024 |
| %RSD | .08961 | .09653 | .21088 | .34695 | .08102 | .01791 | .52858 | .03047 | 2.5878 |
| #1 | .06434 | .11768 | .47518 | 196.43 | 9.1080 | .15479 | 33.633 | 9.6889 | .00894 |
| #2 | .06442 | .11784 | .47660 | 195.47 | 9.0975 | .15483 | 33.886 | 9.6847 | .00928 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7907** | **.14259** | **4.0987** | **.04995** | **.26022** | **-.00315** | **.00299** | **2.0180** | **.00566** |
| Stddev | .0146 | .00027 | .0063 | .00032 | .00108 | .00202 | .00512 | .0211 | .00050 |
| %RSD | .81427 | .19191 | .15433 | .63650 | .41597 | 64.003 | 171.42 | 1.0438 | 8.8306 |
| #1 | 1.8010 | .14240 | 4.0942 | .05017 | .25945 | -.00458 | .00661 | 2.0329 | .00602 |
| #2 | 1.7804 | .14278 | 4.1032 | .04972 | .26099 | -.00173 | -.00063 | 2.0031 | .00531 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03300** | **.04695** | **.38194** | **-.00692** | W **-.05157** | **.13612** | **.48174** | **.05020** |
| Stddev | .00044 | .00159 | .00183 | .00014 | .00909 | .00050 | .00252 | .00083 |
| %RSD | 1.3468 | 3.3884 | .47934 | 1.9807 | 17.622 | .36429 | .52394 | 1.6507 |
| #1 | .03332 | .04583 | .38065 | -.00701 | -.05799 | .13577 | .47996 | .04961 |
| #2 | .03269 | .04808 | .38324 | -.00682 | -.04514 | .13647 | .48353 | .05078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8175.7** | **110560.** | **7112.8** |
| Stddev | 3.7 | 523. | 33.4 |
| %RSD | .04486 | .47304 | .47004 |
| #1 | 8178.3 | 110930. | 7089.2 |
| #2 | 8173.1 | 110200. | 7136.4 |

Sample Name: 280-42043-A-12-A  Acquired: 5/21/2013 14:24:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00156** | **75.920** | **.04347** | **.02212** | **.28287** | **.00348** | **-.00015** | **35.156** | **.00158** |
| Stddev | .00036 | .214 | .00175 | .00053 | .00107 | .00002 | .00243 | .111 | .00003 |
| %RSD | 23.037 | .28178 | 4.0281 | 2.4058 | .37843 | .54349 | 1596.6 | .31705 | 1.8444 |
| #1 | .00130 | 76.071 | .04471 | .02250 | .28363 | .00349 | .00157 | 35.235 | .00156 |
| #2 | .00181 | 75.768 | .04223 | .02174 | .28211 | .00346 | -.00187 | 35.077 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06104** | **.10016** | **.28492** | **200.79** | **9.2515** | **.14735** | **29.717** | **9.6277** | **.00441** |
| Stddev | .00016 | .00024 | .00020 | 1.16 | .0041 | .00074 | .025 | .0070 | .00038 |
| %RSD | .26157 | .24186 | .06873 | .57732 | .04390 | .50101 | .08380 | .07285 | 8.5938 |
| #1 | .06092 | .09999 | .28506 | 201.61 | 9.2486 | .14682 | 29.699 | 9.6327 | .00468 |
| #2 | .06115 | .10033 | .28478 | 199.97 | 9.2544 | .14787 | 29.735 | 9.6228 | .00415 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.87669** | **.14297** | **4.2115** | **.05409** | **.27113** | **-.00309** | **.00177** | **2.4243** | **.00502** |
| Stddev | .00401 | .00037 | .0003 | .00016 | .00235 | .00012 | .00394 | .0168 | .00093 |
| %RSD | .45696 | .25702 | .00631 | .29270 | .86755 | 3.7954 | 222.10 | .69156 | 18.541 |
| #1 | .87952 | .14271 | 4.2114 | .05398 | .27279 | -.00300 | .00456 | 2.4362 | .00436 |
| #2 | .87386 | .14323 | 4.2117 | .05420 | .26946 | -.00317 | -.00101 | 2.4125 | .00568 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06901** | **.04549** | **.31488** | **-.00791** | **-.02658** | **.12741** | **.48889** | **.04940** |
| Stddev | .00023 | .00244 | .00059 | .00014 | .01894 | .00022 | .00072 | .00023 |
| %RSD | .33672 | 5.3543 | .18731 | 1.7348 | 71.245 | .17253 | .14723 | .46330 |
| #1 | .06917 | .04376 | .31529 | -.00800 | -.01319 | .12757 | .48940 | .04923 |
| #2 | .06885 | .04721 | .31446 | -.00781 | -.03997 | .12726 | .48838 | .04956 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7475.4** | **100880.** | **6485.3** |
| Stddev | 1.4 | 39. | 27.6 |
| %RSD | .01927 | .03847 | .42587 |
| #1 | 7476.4 | 100850. | 6465.7 |
| #2 | 7474.4 | 100900. | 6504.8 |

Sample Name: 280-42043-A-13-A  Acquired: 5/21/2013 14:27:24  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00164** | **109.62** | **.05397** | **.01979** | **.50244** | **.00510** | **-.00231** | **112.53** | **.00520** |
| Stddev | .00008 | .33 | .00109 | .00039 | .00149 | .00002 | .00157 | .43 | .00000 |
| %RSD | 4.9131 | .30430 | 2.0229 | 1.9592 | .29566 | .34926 | 67.886 | .37833 | .00312 |
| #1 | .00158 | 109.86 | .05474 | .02006 | .50349 | .00509 | -.00120 | 112.83 | .00520 |
| #2 | .00170 | 109.39 | .05320 | .01951 | .50139 | .00512 | -.00342 | 112.23 | .00520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08139** | **.12844** | **.36871** | **236.51** | **9.4629** | **.17242** | **39.161** | W **11.317** | **.00170** |
| Stddev | .00008 | .00129 | .00057 | 1.05 | .0232 | .00133 | .011 | .056 | .00010 |
| %RSD | .10018 | 1.0027 | .15382 | .44368 | .24504 | .77040 | .02840 | .49531 | 5.9988 |
| #1 | .08145 | .12935 | .36831 | 237.25 | 9.4793 | .17335 | 39.168 | 11.277 | .00177 |
| #2 | .08133 | .12753 | .36911 | 235.77 | 9.4465 | .17148 | 39.153 | 11.357 | .00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7632** | **.17192** | **5.5185** | **.25881** | **.75921** | **-.00487** | **.00188** | **2.3255** | **.00696** |
| Stddev | .0050 | .00022 | .0016 | .00175 | .00196 | .00077 | .00437 | .0184 | .00037 |
| %RSD | .28209 | .12662 | .02927 | .67643 | .25754 | 15.808 | 233.11 | .79109 | 5.3230 |
| #1 | 1.7597 | .17177 | 5.5197 | .25758 | .75783 | -.00433 | .00497 | 2.3385 | .00723 |
| #2 | 1.7667 | .17208 | 5.5174 | .26005 | .76060 | -.00542 | -.00122 | 2.3125 | .00670 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17133** | **.05792** | **.54784** | W **-.01029** | W **-.05961** | **.19557** | **.98052** | **.04246** |
| Stddev | .00115 | .00022 | .00558 | .00087 | .00517 | .00043 | .00095 | .00038 |
| %RSD | .67045 | .38596 | 1.0191 | 8.4715 | 8.6739 | .22148 | .09736 | .89933 |
| #1 | .17215 | .05808 | .55179 | -.01091 | -.06327 | .19526 | .98119 | .04219 |
| #2 | .17052 | .05776 | .54389 | -.00968 | -.05596 | .19588 | .97984 | .04273 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | 45.000 | | | |
| Low Limit | | | | -.01000 | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7398.4** | **99405.** | **6482.2** |
| Stddev | 10.2 | 88. | 42.6 |
| %RSD | .13741 | .08882 | .65787 |
| #1 | 7405.6 | 99467. | 6452.0 |
| #2 | 7391.2 | 99343. | 6512.3 |

Sample Name: 280-42043-A-14-A  Acquired: 5/21/2013 14:29:49  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00143** | **77.430** | **.03335** | **.01725** | **.31084** | **.00313** | **-.00146** | **27.865** | **.00225** |
| Stddev | .00031 | .248 | .00165 | .00010 | .00107 | .00011 | .00052 | .090 | .00006 |
| %RSD | 22.003 | .31967 | 4.9381 | .60032 | .34572 | 3.6514 | 35.971 | .32199 | 2.5764 |
| #1 | .00165 | 77.605 | .03452 | .01732 | .31160 | .00322 | -.00183 | 27.929 | .00229 |
| #2 | .00121 | 77.255 | .03219 | .01718 | .31008 | .00305 | -.00109 | 27.802 | .00221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05072** | **.08632** | **.22873** | **158.32** | **7.5701** | **.11727** | **25.905** | **7.8434** | **.00408** |
| Stddev | .00018 | .00038 | .00215 | .63 | .0194 | .00052 | .199 | .0757 | .00029 |
| %RSD | .36324 | .43595 | .94110 | .39692 | .25639 | .44411 | .76643 | .96539 | 7.1905 |
| #1 | .05085 | .08659 | .23025 | 158.77 | 7.5563 | .11690 | 26.046 | 7.8970 | .00429 |
| #2 | .05059 | .08606 | .22720 | 157.88 | 7.5838 | .11764 | 25.765 | 7.7899 | .00387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4002** | **.10908** | **3.9114** | **.08696** | **.34663** | **-.00078** | **.00372** | **2.2796** | **.00604** |
| Stddev | .0050 | .00042 | .0153 | .00116 | .00397 | .00182 | .00401 | .0202 | .00022 |
| %RSD | .20697 | .38906 | .39229 | 1.3342 | 1.1447 | 234.02 | 107.77 | .88759 | 3.6711 |
| #1 | 2.4037 | .10938 | 3.9223 | .08614 | .34944 | -.00206 | .00088 | 2.2653 | .00588 |
| #2 | 2.3967 | .10878 | 3.9006 | .08778 | .34383 | .00051 | .00655 | 2.2939 | .00619 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05679** | **.06107** | **.54523** | **-.00595** | W **-.07246** | **.12712** | **.48105** | **.03969** |
| Stddev | .00055 | .00021 | .00436 | .00176 | .00446 | .00160 | .00322 | .00155 |
| %RSD | .96853 | .34667 | .80021 | 29.532 | 6.1570 | 1.2612 | .66841 | 3.8981 |
| #1 | .05718 | .06122 | .54831 | -.00720 | -.06931 | .12825 | .48332 | .04078 |
| #2 | .05640 | .06092 | .54214 | -.00471 | -.07562 | .12599 | .47877 | .03859 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7410.1** | **99555.** | **6356.4** |
| Stddev | 5.4 | 77. | 35.5 |
| %RSD | .07332 | .07734 | .55842 |
| #1 | 7406.3 | 99500. | 6331.3 |
| #2 | 7414.0 | 99609. | 6381.5 |

Sample Name: 280-42043-A-15-A  Acquired: 5/21/2013 14:32:14  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00112** | **62.733** | **.03942** | **.02050** | **.32841** | **.00373** | **.00029** | **33.604** | **.00138** |
| Stddev | .00024 | .013 | .00079 | .00036 | .00122 | .00006 | .00077 | .055 | .00001 |
| %RSD | 21.255 | .02139 | 1.9957 | 1.7389 | .37282 | 1.5363 | 269.19 | .16449 | .59134 |
| #1 | .00129 | 62.724 | .03886 | .02075 | .32755 | .00377 | -.00026 | 33.565 | .00137 |
| #2 | .00095 | 62.743 | .03998 | .02025 | .32928 | .00369 | .00083 | 33.643 | .00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05083** | **.08305** | **.22724** | **187.36** | **9.5970** | **.10821** | **25.568** | W **11.642** | **.00302** |
| Stddev | .00002 | .00018 | .00042 | .37 | .0249 | .00021 | .012 | .040 | .00008 |
| %RSD | .03562 | .21357 | .18632 | .19921 | .25915 | .19018 | .04738 | .34521 | 2.8024 |
| #1 | .05082 | .08317 | .22753 | 187.10 | 9.6146 | .10835 | 25.576 | 11.614 | .00308 |
| #2 | .05085 | .08292 | .22694 | 187.62 | 9.5794 | .10806 | 25.559 | 11.671 | .00296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8033** | **.11798** | **5.1732** | **.04352** | **.16316** | **-.00207** | **-.00005** | **1.4515** | **.00523** |
| Stddev | .0015 | .00010 | .0103 | .00075 | .00416 | .00133 | .00051 | .0149 | .00023 |
| %RSD | .08473 | .08354 | .19823 | 1.7118 | 2.5480 | 64.156 | 995.09 | 1.0282 | 4.4547 |
| #1 | 1.8044 | .11805 | 5.1804 | .04405 | .16610 | -.00113 | .00031 | 1.4410 | .00540 |
| #2 | 1.8022 | .11791 | 5.1659 | .04300 | .16022 | -.00301 | -.00042 | 1.4621 | .00507 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05170** | **.04947** | **.60078** | **-.00969** | F **-.10431** | **.12257** | **1.0425** | **.05020** |
| Stddev | .00019 | .00137 | .00207 | .00098 | .00218 | .00046 | .0010 | .00186 |
| %RSD | .37696 | 2.7716 | .34374 | 10.091 | 2.0860 | .37439 | .09547 | 3.7010 |
| #1 | .05156 | .05044 | .60224 | -.00900 | -.10277 | .12290 | 1.0432 | .05152 |
| #2 | .05184 | .04850 | .59932 | -.01038 | -.10585 | .12225 | 1.0418 | .04889 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8214.1** | **110860.** | **7108.9** |
| Stddev | 12.4 | 119. | 7.7 |
| %RSD | .15133 | .10758 | .10900 |
| #1 | 8222.9 | 110950. | 7103.4 |
| #2 | 8205.3 | 110780. | 7114.4 |

Sample Name: 280-42043-A-16-A  Acquired: 5/21/2013 14:34:39  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **87.366** | **.03172** | **.03020** | **.26778** | **.00342** | **-.00507** | W **791.87** | **.00230** |
| Stddev | .00085 | .569 | .00144 | .00043 | .00109 | .00002 | .00086 | 8.08 | .00013 |
| %RSD | 175.75 | .65117 | 4.5329 | 1.4224 | .40633 | .53773 | 16.895 | 1.0200 | 5.6428 |
| #1 | .00108 | 86.964 | .03274 | .02990 | .26701 | .00344 | -.00446 | 786.16 | .00239 |
| #2 | -.00012 | 87.768 | .03071 | .03050 | .26855 | .00341 | -.00567 | 797.58 | .00221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05040** | **.10937** | **.33820** | **142.10** | **9.0002** | **.14360** | **50.581** | **4.9179** | **.00292** |
| Stddev | .00040 | .00015 | .00013 | .25 | .0671 | .00193 | .123 | .0118 | .00033 |
| %RSD | .79373 | .13765 | .03716 | .17760 | .74584 | 1.3424 | .24325 | .24062 | 11.326 |
| #1 | .05012 | .10927 | .33811 | 141.92 | 8.9527 | .14497 | 50.494 | 4.9095 | .00269 |
| #2 | .05069 | .10948 | .33829 | 142.28 | 9.0477 | .14224 | 50.668 | 4.9263 | .00316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4258** | **.14317** | **4.1590** | **.12359** | **1.9313** | **.01207** | **.00458** | **1.7289** | **.00638** |
| Stddev | .0146 | .00023 | .0021 | .00014 | .0085 | .00141 | .00081 | .0071 | .00077 |
| %RSD | .60202 | .15865 | .04949 | .11066 | .43798 | 11.654 | 17.717 | .40938 | 12.098 |
| #1 | 2.4155 | .14301 | 4.1605 | .12349 | 1.9373 | .01306 | .00515 | 1.7339 | .00584 |
| #2 | 2.4361 | .14333 | 4.1576 | .12368 | 1.9253 | .01107 | .00401 | 1.7239 | .00693 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.71184** | **.03816** | **.51173** | **-.00455** | W **-.05968** | **.15018** | **.50533** | **.02176** |
| Stddev | .00453 | .00022 | .00218 | .00138 | .01315 | .00027 | .00017 | .00211 |
| %RSD | .63607 | .58377 | .42632 | 30.383 | 22.034 | .18183 | .03381 | 9.6795 |
| #1 | .70864 | .03831 | .51327 | -.00553 | -.05038 | .15037 | .50521 | .02027 |
| #2 | .71504 | .03800 | .51019 | -.00357 | -.06898 | .14998 | .50545 | .02325 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6574.2** | **88167.** | **5962.0** |
| Stddev | 6.5 | 255. | 41.4 |
| %RSD | .09816 | .28977 | .69487 |
| #1 | 6569.6 | 88347. | 5991.3 |
| #2 | 6578.8 | 87986. | 5932.7 |

Sample Name: 280-42043-A-17-A  Acquired: 5/21/2013 14:37:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **99.586** | **.04277** | **.02249** | **.28257** | **.00429** | **.00288** | **10.729** | **.00136** |
| Stddev | .00028 | .745 | .00044 | .00038 | .00138 | .00008 | .00045 | .082 | .00008 |
| %RSD | 21.664 | .74825 | 1.0330 | 1.6689 | .48764 | 1.9297 | 15.611 | .76740 | 5.8874 |
| #1 | .00151 | 99.059 | .04308 | .02223 | .28160 | .00424 | .00320 | 10.670 | .00142 |
| #2 | .00111 | 100.11 | .04245 | .02276 | .28355 | .00435 | .00256 | 10.787 | .00130 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06654** | **.12907** | **.43513** | **206.57** | **9.6190** | **.16331** | **37.163** | **9.3137** | **.00816** |
| Stddev | .00029 | .00080 | .00116 | 1.17 | .0407 | .00083 | .008 | .1071 | .00001 |
| %RSD | .43780 | .62266 | .26695 | .56605 | .42312 | .50703 | .02177 | 1.1497 | .08349 |
| #1 | .06633 | .12851 | .43595 | 205.75 | 9.5902 | .16273 | 37.169 | 9.2380 | .00816 |
| #2 | .06674 | .12964 | .43431 | 207.40 | 9.6478 | .16390 | 37.158 | 9.3894 | .00817 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.8677** | **.15393** | **3.8388** | **.05453** | **.19982** | **-.00419** | **.00080** | **2.0093** | **.00616** |
| Stddev | .0014 | .00069 | .0275 | .00014 | .00307 | .00104 | .00179 | .0202 | .00100 |
| %RSD | .04691 | .45121 | .71699 | .25295 | 1.5385 | 24.917 | 224.27 | 1.0035 | 16.166 |
| #1 | 2.8668 | .15344 | 3.8193 | .05443 | .19765 | -.00345 | .00207 | 1.9950 | .00686 |
| #2 | 2.8687 | .15442 | 3.8582 | .05463 | .20200 | -.00493 | -.00047 | 2.0236 | .00545 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02682** | **.05416** | **.42384** | **-.00672** | W **-.06019** | **.15258** | **.47919** | **.04823** |
| Stddev | .00011 | .00204 | .00293 | .00101 | .02080 | .00010 | .00097 | .00093 |
| %RSD | .40728 | 3.7644 | .69087 | 15.024 | 34.559 | .06247 | .20140 | 1.9287 |
| #1 | .02689 | .05560 | .42177 | -.00743 | -.07490 | .15265 | .47850 | .04758 |
| #2 | .02674 | .05272 | .42591 | -.00601 | -.04548 | .15251 | .47987 | .04889 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8076.4** | **109610.** | **7129.2** |
| Stddev | 23.9 | 203. | 9.5 |
| %RSD | .29623 | .18542 | .13372 |
| #1 | 8093.4 | 109750. | 7135.9 |
| #2 | 8059.5 | 109460. | 7122.5 |

Sample Name: 280-42043-A-18-A  Acquired: 5/21/2013 14:40:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00172** | **82.803** | **.03914** | **.01920** | **.33560** | **.00378** | **.00026** | **20.838** | **.00153** |
| Stddev | .00050 | .108 | .00060 | .00017 | .00009 | .00003 | .00294 | .036 | .00000 |
| %RSD | 28.819 | .13009 | 1.5350 | .86079 | .02735 | .84504 | 1142.7 | .17201 | .30106 |
| #1 | .00207 | 82.880 | .03956 | .01909 | .33554 | .00375 | .00233 | 20.863 | .00152 |
| #2 | .00137 | 82.727 | .03871 | .01932 | .33567 | .00380 | -.00182 | 20.813 | .00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05992** | **.09433** | **.36704** | **210.61** | **8.7445** | **.15529** | **34.065** | W **13.504** | **.00288** |
| Stddev | .00031 | .00061 | .00118 | .18 | .0375 | .00095 | .059 | .126 | .00012 |
| %RSD | .51325 | .64823 | .32043 | .08384 | .42901 | .61475 | .17312 | .93135 | 4.1809 |
| #1 | .05970 | .09390 | .36787 | 210.73 | 8.7711 | .15461 | 34.107 | 13.415 | .00280 |
| #2 | .06014 | .09476 | .36621 | 210.48 | 8.7180 | .15596 | 34.023 | 13.593 | .00297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0147** | **.14465** | **4.5931** | **.05068** | **.36809** | **-.00272** | **.00251** | **3.0352** | **.00618** |
| Stddev | .0014 | .00017 | .0200 | .00018 | .00418 | .00048 | .00153 | .0336 | .00067 |
| %RSD | .07131 | .11915 | .43642 | .35334 | 1.1348 | 17.716 | 61.212 | 1.1073 | 10.816 |
| #1 | 2.0157 | .14477 | 4.5789 | .05055 | .36513 | -.00238 | .00359 | 3.0589 | .00571 |
| #2 | 2.0137 | .14453 | 4.6073 | .05081 | .37104 | -.00306 | .00142 | 3.0114 | .00666 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05231** | **.06377** | **.57586** | W **-.01136** | **-.04020** | **.13165** | **.61085** | **.04833** |
| Stddev | .00007 | .00114 | .00202 | .00049 | .02625 | .00010 | .00027 | .00218 |
| %RSD | .12747 | 1.7804 | .35145 | 4.3420 | 65.278 | .07222 | .04418 | 4.5108 |
| #1 | .05227 | .06457 | .57443 | -.01171 | -.05876 | .13171 | .61104 | .04679 |
| #2 | .05236 | .06297 | .57729 | -.01101 | -.02165 | .13158 | .61066 | .04988 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7588.8** | **101900.** | **6612.0** |
| Stddev | 21.0 | 297. | 26.8 |
| %RSD | .27627 | .29163 | .40461 |
| #1 | 7603.6 | 101690. | 6593.1 |
| #2 | 7573.9 | 102110. | 6630.9 |

Sample Name: 280-42043-A-19-A  Acquired: 5/21/2013 14:42:35  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173665 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00233** | **71.090** | **.04382** | **.01826** | **.31945** | **.00297** | **.00157** | **30.298** | **.00149** |
| Stddev | .00024 | .092 | .00080 | .00008 | .00062 | .00007 | .00089 | .050 | .00031 |
| %RSD | 10.116 | .12891 | 1.8369 | .43964 | .19278 | 2.2787 | 56.822 | .16584 | 20.898 |
| #1 | .00216 | 71.026 | .04325 | .01821 | .31902 | .00301 | .00094 | 30.263 | .00171 |
| #2 | .00249 | 71.155 | .04439 | .01832 | .31989 | .00292 | .00221 | 30.334 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05388** | **.08950** | **.26741** | **200.65** | **8.0756** | **.13575** | **30.936** | W **12.702** | **.00444** |
| Stddev | .00052 | .00041 | .00005 | .59 | .0774 | .00119 | .023 | .006 | .00013 |
| %RSD | .96344 | .45546 | .01731 | .29162 | .95850 | .87557 | .07587 | .04847 | 2.9332 |
| #1 | .05351 | .08921 | .26737 | 200.23 | 8.0209 | .13491 | 30.953 | 12.698 | .00435 |
| #2 | .05425 | .08979 | .26744 | 201.06 | 8.1303 | .13659 | 30.920 | 12.706 | .00453 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.73773** | **.13104** | **4.3084** | **.04388** | **.20980** | **-.00275** | **.00332** | **3.6777** | **.00535** |
| Stddev | .00509 | .00087 | .0263 | .00067 | .00400 | .00014 | .00079 | .0509 | .00003 |
| %RSD | .69016 | .66379 | .60982 | 1.5255 | 1.9070 | 5.2001 | 23.899 | 1.3833 | .60490 |
| #1 | .73413 | .13042 | 4.2898 | .04436 | .20697 | -.00265 | .00276 | 3.7137 | .00533 |
| #2 | .74133 | .13165 | 4.3270 | .04341 | .21263 | -.00285 | .00388 | 3.6417 | .00538 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06700** | **.04985** | **.35677** | **-.00961** | **-.03885** | **.12229** | **.46549** | **.05206** |
| Stddev | .00016 | .00199 | .00588 | .00023 | .00397 | .00033 | .00037 | .00324 |
| %RSD | .24239 | 3.9915 | 1.6482 | 2.3823 | 10.220 | .27072 | .07847 | 6.2159 |
| #1 | .06711 | .05126 | .36093 | -.00978 | -.04166 | .12206 | .46575 | .04977 |
| #2 | .06688 | .04844 | .35261 | -.00945 | -.03605 | .12252 | .46524 | .05435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7504.8** | **99784.** | **6464.3** |
| Stddev | 23.5 | 1. | 20.4 |
| %RSD | .31333 | .00102 | .31483 |
| #1 | 7521.4 | 99785. | 6478.7 |
| #2 | 7488.1 | 99784. | 6449.9 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 14:45:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **50.441** | **-.00108** | **.00296** | **.00047** | **-.00005** | **1.0018** | **.00270** | **-.00062** | **.00197** | **-.00018** | **.00037** | **50.194** |
| Stddev | .00025 | .056 | .00247 | .00005 | .00054 | .00003 | .0027 | .00336 | .00019 | .00009 | .00009 | .00017 | .057 |
| %RSD | 12.794 | .11143 | 229.18 | 1.7398 | 114.21 | 57.201 | .26452 | 124.40 | 30.230 | 4.7769 | 47.996 | 44.624 | .11410 |
| #1 | .00179 | 50.481 | -.00283 | .00299 | .00085 | -.00007 | 1.0037 | .00032 | -.00049 | .00191 | -.00024 | .00026 | 50.153 |
| #2 | .00215 | 50.401 | .00067 | .00292 | .00009 | -.00003 | .99993 | .00507 | -.00075 | .00204 | -.00012 | .00049 | 50.234 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02185** | **-.00127** | **-.00204** | **.00006** | **-.00163** | **251.32** | **.00075** | **.00471** | **-.00043** | **4.9667** | **-.00072** | **.00259** | **-.00381** |
| Stddev | .01285 | .00171 | .00362 | .00005 | .00030 | .61 | .00001 | .00196 | .00169 | .0067 | .00129 | .00137 | .00374 |
| %RSD | 58.823 | 135.05 | 177.30 | 90.661 | 18.356 | .24076 | 1.5220 | 41.730 | 394.07 | .13539 | 180.19 | 52.967 | 97.935 |
| #1 | -.01276 | -.00247 | .00052 | .00010 | -.00184 | 251.75 | .00074 | .00332 | -.00162 | 4.9715 | .00020 | .00355 | -.00646 |
| #2 | -.03093 | -.00006 | -.00460 | .00002 | -.00141 | 250.89 | .00076 | .00610 | .00077 | 4.9619 | -.00163 | .00162 | -.00117 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **.00021** | **5.1421** | **.00333** | **-.00111** | **10.074** | **-.00046** | **.00318** | **-.03649** |
| Stddev | .00094 | .00004 | .0019 | .00064 | .00158 | .002 | .00062 | .00044 | .00380 |
| %RSD | 111.11 | 16.902 | .03690 | 19.239 | 142.37 | .02009 | 135.86 | 13.875 | 10.420 |
| #1 | .00151 | .00018 | 5.1434 | .00378 | .00001 | 10.073 | -.00002 | .00350 | -.03380 |
| #2 | .00018 | .00023 | 5.1407 | .00288 | -.00223 | 10.076 | -.00090 | .00287 | -.03917 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6578.2** | **87557.** | **5588.7** |
| Stddev | 8.8 | 401. | 13.6 |
| %RSD | .13368 | .45761 | .24404 |
| #1 | 6572.0 | 87273. | 5579.0 |
| #2 | 6584.4 | 87840. | 5598.3 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 14:47:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50656** | **.48915** | **.96012** | **.47650** | **.48500** | **.46071** | **.00275** | **4.8660** | **.49856** | **.50337** | **.48586** | **.48044** | **2.4085** |
| Stddev | .00326 | .00009 | .00094 | .00145 | .00251 | .00251 | .00176 | .0022 | .00028 | .00060 | .00097 | .00231 | .0118 |
| %RSD | .64350 | .01858 | .09744 | .30337 | .51741 | .54416 | 64.111 | .04549 | .05548 | .11845 | .19864 | .48100 | .49127 |
| #1 | .50425 | .48909 | .96079 | .47548 | .48323 | .45894 | .00399 | 4.8676 | .49875 | .50295 | .48518 | .47881 | 2.4169 |
| #2 | .50886 | .48922 | .95946 | .47752 | .48678 | .46248 | .00150 | 4.8644 | .49836 | .50379 | .48654 | .48208 | 2.4002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.755** | **.97578** | **19.435** | **.49314** | **.48480** | **4.7688** | **.49435** | **.94041** | **1.0063** | **.00079** | **.99318** | **.95113** | **4.7415** |
| Stddev | .053 | .00208 | .057 | .00148 | .00105 | .0226 | .00165 | .00004 | .0016 | .00337 | .00211 | .00290 | .0346 |
| %RSD | .10774 | .21295 | .29543 | .30027 | .21636 | .47398 | .33335 | .00455 | .15838 | 424.25 | .21207 | .30499 | .73016 |
| #1 | 48.718 | .97431 | 19.394 | .49209 | .48406 | 4.7528 | .49319 | .94038 | 1.0074 | .00318 | .99169 | .94908 | 4.7659 |
| #2 | 48.792 | .97725 | 19.475 | .49419 | .48555 | 4.7848 | .49552 | .94044 | 1.0052 | -.00159 | .99467 | .95318 | 4.7170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97508** | **.46636** | **-.00042** | **.49604** | **1.0069** | **.00015** | **.47865** | **.49293** | **.48597** |
| Stddev | .00067 | .00101 | .00144 | .00233 | .0009 | .01557 | .00068 | .00169 | .00097 |
| %RSD | .06861 | .21591 | 344.42 | .46876 | .09307 | 10247. | .14303 | .34344 | .20011 |
| #1 | .97555 | .46564 | .00060 | .49439 | 1.0075 | .01116 | .47914 | .49174 | .48665 |
| #2 | .97461 | .46707 | -.00143 | .49768 | 1.0062 | -.01086 | .47817 | .49413 | .48528 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6782.8** | **90607.** | **5793.9** |
| Stddev | 2.0 | 158. | 12.3 |
| %RSD | .02989 | .17423 | .21246 |
| #1 | 6784.2 | 90719. | 5802.6 |
| #2 | 6781.4 | 90495. | 5785.2 |

Sample Name: CCB Acquired: 5/21/2013 14:49:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00046** | **.00130** | **.00153** | **.00043** | **-.00011** | **.00056** | **.00547** | **.00005** | **.00003** | **.00002** |
| Stddev | .00059 | .00041 | .00064 | .00016 | .00013 | .00006 | .00085 | .00214 | .00002 | .00028 | .00001 |
| %RSD | 135.41 | 90.628 | 48.982 | 10.259 | 31.079 | 55.537 | 151.05 | 39.181 | 29.626 | 834.10 | 51.343 |
| #1 | .00086 | .00075 | .00175 | .00164 | .00053 | -.00006 | .00117 | .00698 | .00007 | .00023 | .00003 |
| #2 | .00002 | .00016 | .00085 | .00142 | .00034 | -.00015 | -.00004 | .00395 | .00004 | -.00016 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00071** | **.00347** | **-.00697** | **-.00156** | **.00187** | **.00024** | **.00009** | **-.02747** | **-.00017** | **.00118** | **.00158** |
| Stddev | .00004 | .00115 | .01979 | .00061 | .00140 | .00002 | .00028 | .01755 | .00006 | .00098 | .00075 |
| %RSD | 4.9321 | 33.010 | 283.98 | 39.006 | 75.090 | 9.2467 | 315.05 | 63.872 | 38.205 | 83.049 | 47.486 |
| #1 | -.00069 | .00266 | .00703 | -.00113 | .00286 | .00025 | -.00011 | -.03988 | -.00012 | .00049 | .00211 |
| #2 | -.00074 | .00428 | -.02097 | -.00199 | .00088 | .00022 | .00029 | -.01506 | -.00021 | .00187 | .00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | W **.00419** | **-.00040** | **.01210** | **.00011** | **.00003** | **-.00187** | **-.00007** | **.00082** | **-.00725** | **-.00030** |
| Stddev | .00222 | .00231 | .00088 | .02185 | .00015 | .00011 | .00217 | .00024 | .00035 | .00899 | .00006 |
| %RSD | 5574.3 | 55.189 | 221.08 | 180.58 | 131.01 | 333.39 | 115.99 | 324.64 | 42.680 | 124.03 | 21.135 |
| #1 | .00153 | .00255 | .00023 | -.00335 | .00022 | -.00004 | -.00034 | -.00025 | .00106 | -.01361 | -.00026 |
| #2 | -.00161 | .00582 | -.00102 | .02755 | .00001 | .00011 | -.00341 | .00010 | .00057 | -.00089 | -.00035 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00259** | **.00134** |
| Stddev | .00057 | .00013 |
| %RSD | 21.914 | 9.4490 |
| #1 | .00300 | .00125 |
| #2 | .00219 | .00143 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6689.9** | **90870.** | **5662.4** |
| Stddev | 9.5 | 535. | 8.3 |
| %RSD | .14183 | .58866 | .14681 |
| #1 | 6683.2 | 91249. | 5668.3 |
| #2 | 6696.6 | 90492. | 5656.5 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 14:52:07 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01092** | **.10222** | **.01530** | **.09616** | **.01006** | **.00089** | **.10970** | **.20468** | **.00531** | **.01074** | **.01012** | **.01422** | **.10585** | **3.0881** |
| Stddev | .00011 | .00027 | .00054 | .00001 | .00054 | .00002 | .00251 | .00118 | .00012 | .00019 | .00019 | .00011 | .00146 | .0234 |
| %RSD | .99895 | .26402 | 3.5096 | .00683 | 5.3343 | 2.0065 | 2.2869 | .57635 | 2.2708 | 1.7994 | 1.8696 | .75363 | 1.3790 | .75768 |
| #1 | .01100 | .10203 | .01568 | .09617 | .00968 | .00090 | .11148 | .20551 | .00523 | .01087 | .00999 | .01415 | .10689 | 3.1047 |
| #2 | .01085 | .10241 | .01492 | .09616 | .01044 | .00087 | .10793 | .20384 | .00540 | .01060 | .01026 | .01430 | .10482 | 3.0716 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01090** | **.20604** | **.01053** | **.02019** | **.98817** | **.04147** | **2.8199** | **.01069** | **.00285** | **.01179** | **.01220** | **.48873** | **.10124** | **.00984** |
| Stddev | .00276 | .00207 | .00001 | .00040 | .00021 | .00006 | .0157 | .00122 | .00226 | .00020 | .00409 | .00427 | .00050 | .00006 |
| %RSD | 25.376 | 1.0031 | .07646 | 1.9891 | .02100 | .13532 | .55716 | 11.446 | 79.358 | 1.6754 | 33.552 | .87299 | .49688 | .60416 |
| #1 | .01285 | .20458 | .01053 | .01991 | .98832 | .04143 | 2.8088 | .00982 | .00125 | .01165 | .01509 | .48571 | .10160 | .00988 |
| #2 | .00894 | .20750 | .01054 | .02048 | .98803 | .04151 | 2.8310 | .01155 | .00444 | .01193 | .00930 | .49174 | .10089 | .00980 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01531** | **.01060** | **.01609** | **.05286** | **.00962** | **.02312** | **.01487** |
| Stddev | .00262 | .00029 | .00037 | .01603 | .00017 | .00034 | .00125 |
| %RSD | 17.087 | 2.7153 | 2.3156 | 30.329 | 1.7735 | 1.4773 | 8.4229 |
| #1 | .01346 | .01039 | .01582 | .06419 | .00950 | .02337 | .01575 |
| #2 | .01715 | .01080 | .01635 | .04152 | .00974 | .02288 | .01398 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6701.9** | **90806.** | **5731.6** |
| Stddev | 4.9 | 94. | 16.9 |
| %RSD | .07344 | .10365 | .29439 |
| #1 | 6705.4 | 90873. | 5743.5 |
| #2 | 6698.4 | 90740. | 5719.6 |

Sample Name: MB 280-174378/1-A Acquired: 5/21/2013 14:54:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00373** | **.00097** | **.00133** | **.00028** | **-.00002** | **.00075** | **.00977** | **.00024** |
| Stddev | .00027 | .00035 | .00057 | .00034 | .00005 | .00000 | .00133 | .00055 | .00008 |
| %RSD | 43.012 | 9.2652 | 59.012 | 25.811 | 18.248 | 3.1036 | 177.43 | 5.5863 | 33.928 |
| #1 | .00081 | .00348 | .00057 | .00109 | .00025 | -.00002 | -.00019 | .00938 | .00018 |
| #2 | .00043 | .00397 | .00138 | .00157 | .00032 | -.00002 | .00169 | .01016 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **.00013** | **-.00075** | **.06795** | **.05205** | **.00162** | **.00481** | **.00044** | **.00009** |
| Stddev | .00020 | .00014 | .00002 | .00056 | .01882 | .00015 | .00369 | .00000 | .00017 |
| %RSD | 112.55 | 108.71 | 2.8691 | .82624 | 36.154 | 9.3332 | 76.747 | .23744 | 193.02 |
| #1 | -.00033 | .00023 | -.00077 | .06756 | .06536 | .00173 | .00220 | .00044 | -.00003 |
| #2 | -.00004 | .00003 | -.00074 | .06835 | .03874 | .00152 | .00742 | .00044 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06549** | **-.00014** | **.16952** | **.00031** | **.00074** | **.00179** | **-.00011** | **.00683** | **.00043** |
| Stddev | .00734 | .00024 | .00091 | .00049 | .00041 | .00135 | .00141 | .00551 | .00014 |
| %RSD | 11.211 | 172.24 | .53664 | 157.10 | 55.415 | 75.591 | 1265.7 | 80.658 | 31.812 |
| #1 | -.07069 | .00003 | .16888 | .00066 | .00045 | .00083 | .00088 | .00293 | .00053 |
| #2 | -.06030 | -.00031 | .17017 | -.00003 | .00103 | .00275 | -.00111 | .01072 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **-.00013** | **.00016** | **.00014** | **-.01499** | **.00013** | **.00324** | **.00047** |
| Stddev | .00002 | .00064 | .00002 | .00007 | .00172 | .00009 | .00017 | .00100 |
| %RSD | 72.122 | 477.31 | 12.803 | 50.825 | 11.509 | 75.530 | 5.1918 | 212.62 |
| #1 | -.00004 | -.00058 | .00018 | .00009 | -.01621 | .00019 | .00313 | -.00024 |
| #2 | -.00001 | .00032 | .00015 | .00020 | -.01377 | .00006 | .00336 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6667.0** | **90372.** | **5700.1** |
| Stddev | 19.1 | 221. | 12.7 |
| %RSD | .28711 | .24478 | .22205 |
| #1 | 6653.5 | 90529. | 5709.1 |
| #2 | 6680.5 | 90216. | 5691.2 |

Sample Name: LCS 280-174378/2-A Acquired: 5/21/2013 14:57:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05521** | **1.8868** | **.96721** | **.97382** | **2.0557** | **.04872** | **2.0575** | **49.845** | **.10315** |
| Stddev | .00003 | .0047 | .00443 | .00132 | .0021 | .00002 | .0041 | .019 | .00052 |
| %RSD | .05875 | .24789 | .45840 | .13541 | .10433 | .05038 | .19824 | .03735 | .50402 |
| #1 | .05523 | 1.8901 | .96408 | .97475 | 2.0572 | .04874 | 2.0546 | 49.858 | .10352 |
| #2 | .05518 | 1.8835 | .97035 | .97289 | 2.0542 | .04870 | 2.0604 | 49.831 | .10278 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49902** | **.19755** | **.25031** | **1.0507** | **50.770** | **1.0179** | **49.835** | **.50635** | **.98700** |
| Stddev | .00056 | .00005 | .00035 | .0081 | .094 | .0014 | .125 | .00114 | .00197 |
| %RSD | .11282 | .02556 | .14150 | .76928 | .18565 | .14211 | .25167 | .22610 | .19960 |
| #1 | .49942 | .19751 | .25056 | 1.0564 | 50.837 | 1.0169 | 49.924 | .50716 | .98839 |
| #2 | .49862 | .19759 | .25006 | 1.0450 | 50.703 | 1.0189 | 49.746 | .50554 | .98561 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.027** | **.48805** | **9.7974** | **.50241** | **.00170** | **.51161** | **1.9379** | **10.124** | **1.9640** |
| Stddev | .147 | .00051 | .0187 | .00066 | .00110 | .00005 | .0059 | .000 | .0019 |
| %RSD | .28279 | .10439 | .19101 | .13215 | 64.615 | .01023 | .30625 | .00360 | .09559 |
| #1 | 51.923 | .48841 | 9.8106 | .50194 | .00248 | .51164 | 1.9421 | 10.124 | 1.9653 |
| #2 | 52.131 | .48769 | 9.7841 | .50288 | .00092 | .51157 | 1.9337 | 10.124 | 1.9627 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97686** | **1.0548** | **1.0375** | **2.0011** | **2.1288** | **.50161** | **.50240** | **.50221** |
| Stddev | .00440 | .0013 | .0003 | .0019 | .0404 | .00090 | .00087 | .00458 |
| %RSD | .45066 | .12113 | .03165 | .09661 | 1.8985 | .17957 | .17381 | .91150 |
| #1 | .97997 | 1.0557 | 1.0377 | 2.0025 | 2.1003 | .50225 | .50302 | .49897 |
| #2 | .97375 | 1.0539 | 1.0372 | 1.9998 | 2.1574 | .50097 | .50178 | .50544 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6550.9** | **86691.** | **5563.2** |
| Stddev | 17.0 | 174. | 2.6 |
| %RSD | .25947 | .20045 | .04596 |
| #1 | 6538.9 | 86568. | 5565.0 |
| #2 | 6562.9 | 86814. | 5561.4 |

Sample Name: 280-42039-F-11-A Acquired: 5/21/2013 14:59:14 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00434** | **.00077** | **.00269** | **.00015** | **-.00002** | **-.00305** | **.02795** | **.00035** |
| Stddev | .00065 | .00007 | .00385 | .00043 | .00070 | .00004 | .00149 | .00499 | .00019 |
| %RSD | 215.96 | 1.6083 | 499.51 | 16.118 | 481.88 | 162.80 | 48.700 | 17.865 | 54.166 |
| #1 | .00076 | .00429 | -.00195 | .00300 | .00064 | .00000 | -.00200 | .02442 | .00048 |
| #2 | -.00016 | .00439 | .00349 | .00239 | -.00035 | -.00005 | -.00410 | .03148 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **-.00007** | **-.00080** | **.00778** | **.00860** | **-.00162** | **.00913** | **.00069** | **.00016** |
| Stddev | .00011 | .00009 | .00013 | .00065 | .03987 | .00181 | .00111 | .00005 | .00023 |
| %RSD | 73.559 | 140.39 | 16.479 | 8.3307 | 463.57 | 111.62 | 12.111 | 7.6775 | 144.85 |
| #1 | -.00023 | -.00013 | -.00090 | .00824 | .03679 | -.00034 | .00991 | .00066 | -.00000 |
| #2 | -.00007 | -.00000 | -.00071 | .00732 | -.01959 | -.00290 | .00834 | .00073 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02379** | **-.00015** | **.17326** | **.00129** | **.00841** | **.00104** | **.00186** | **.00691** | **.00077** |
| Stddev | .00704 | .00051 | .00432 | .00087 | .00006 | .00191 | .00053 | .00684 | .00005 |
| %RSD | 29.598 | 352.74 | 2.4913 | 67.302 | .71060 | 182.99 | 28.726 | 98.856 | 5.9761 |
| #1 | -.02877 | .00022 | .17631 | .00191 | .00845 | -.00031 | .00148 | .01175 | .00074 |
| #2 | -.01881 | -.00051 | .17021 | .00068 | .00837 | .00239 | .00224 | .00208 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00232** | **.00010** | **.00080** | **-.01526** | **-.00028** | **.00397** | **.00050** |
| Stddev | .00004 | .00110 | .00026 | .00015 | .01669 | .00032 | .00030 | .00136 |
| %RSD | 24.632 | 47.593 | 260.94 | 19.428 | 109.37 | 114.44 | 7.5909 | 270.05 |
| #1 | .00012 | .00154 | -.00008 | .00090 | -.02706 | -.00051 | .00419 | .00146 |
| #2 | .00017 | .00310 | .00029 | .00069 | -.00346 | -.00005 | .00376 | -.00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6777.9** | **91632.** | **5718.6** |
| Stddev | .6 | 132. | 16.7 |
| %RSD | .00897 | .14389 | .29228 |
| #1 | 6778.3 | 91726. | 5706.8 |
| #2 | 6777.4 | 91539. | 5730.4 |

Sample Name: sd 42039-F-11-A@5 Acquired: 5/21/2013 15:01:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00157** | **.00193** | **.00155** | **-.00021** | **-.00009** | **-.00090** | **.00948** | **-.00000** |
| Stddev | .00038 | .00000 | .00078 | .00009 | .00046 | .00010 | .00024 | .00156 | .00010 |
| %RSD | 86.814 | .03322 | 40.285 | 5.7194 | 220.56 | 112.54 | 26.323 | 16.435 | 9089.2 |
| #1 | .00071 | .00156 | .00248 | .00149 | .00012 | -.00016 | -.00107 | .01058 | .00007 |
| #2 | .00017 | .00157 | .00138 | .00162 | -.00054 | -.00002 | -.00073 | .00838 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **-.00005** | **-.00089** | **.01328** | **-.01130** | **-.00172** | **.00108** | **.00034** | **.00011** |
| Stddev | .00017 | .00014 | .00002 | .00223 | .00834 | .00124 | .00117 | .00003 | .00032 |
| %RSD | 218.93 | 286.79 | 2.1160 | 16.822 | 73.831 | 72.377 | 108.95 | 9.6198 | 292.66 |
| #1 | -.00004 | -.00015 | -.00087 | .01486 | -.01720 | -.00259 | .00191 | .00031 | .00033 |
| #2 | .00020 | .00005 | -.00090 | .01170 | -.00540 | -.00084 | .00025 | .00036 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.06876** | **-.00033** | **.03787** | **-.00015** | **.00068** | **.00121** | **.00173** | **.01520** | **-.00040** |
| Stddev | .00014 | .00009 | .00051 | .00130 | .00150 | .00158 | .00156 | .01044 | .00003 |
| %RSD | .19766 | 28.908 | 1.3405 | 892.90 | 221.53 | 130.16 | 90.440 | 68.695 | 6.5465 |
| #1 | -.06867 | -.00039 | .03751 | .00077 | .00174 | .00233 | .00062 | .02258 | -.00038 |
| #2 | -.06886 | -.00026 | .03823 | -.00107 | -.00038 | .00010 | .00283 | .00782 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **-.00127** | **.00012** | **.00143** | **.01308** | **-.00003** | **.00436** | **.00008** |
| Stddev | .00014 | .00142 | .00012 | .00077 | .00832 | .00024 | .00005 | .00089 |
| %RSD | 129.30 | 112.10 | 98.555 | 54.025 | 63.594 | 853.33 | 1.2587 | 1106.9 |
| #1 | .00021 | -.00228 | .00004 | .00089 | .01896 | .00014 | .00432 | -.00055 |
| #2 | .00001 | -.00026 | .00021 | .00198 | .00720 | -.00020 | .00440 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6740.5** | **91197.** | **5623.8** |
| Stddev | 2.5 | 166. | 26.9 |
| %RSD | .03653 | .18153 | .47897 |
| #1 | 6742.2 | 91314. | 5642.9 |
| #2 | 6738.7 | 91080. | 5604.8 |

Sample Name: 280-42039-F-11-B MS Acquired: 5/21/2013 15:04:12 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05428** | **1.8796** | **.96823** | **.97107** | **2.0153** | **.04762** | **2.0534** | **49.046** | **.10296** |
| Stddev | .00032 | .0047 | .00328 | .00066 | .0002 | .00018 | .0004 | .007 | .00002 |
| %RSD | .58036 | .24807 | .33917 | .06797 | .01131 | .38827 | .02207 | .01477 | .02108 |
| #1 | .05406 | 1.8763 | .96591 | .97060 | 2.0154 | .04775 | 2.0531 | 49.040 | .10298 |
| #2 | .05451 | 1.8829 | .97055 | .97153 | 2.0151 | .04749 | 2.0537 | 49.051 | .10295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49984** | **.19704** | **.24541** | **.98878** | **50.088** | **1.0010** | **48.776** | **.49683** | **.98550** |
| Stddev | .00029 | .00040 | .00020 | .00018 | .015 | .0016 | .081 | .00030 | .00120 |
| %RSD | .05792 | .20489 | .07966 | .01836 | .03066 | .15862 | .16584 | .06079 | .12162 |
| #1 | .50005 | .19675 | .24527 | .98865 | 50.077 | .99987 | 48.834 | .49705 | .98466 |
| #2 | .49964 | .19733 | .24554 | .98891 | 50.099 | 1.0021 | 48.719 | .49662 | .98635 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.922** | **.48783** | **9.7363** | **.50405** | **-.00103** | **.50949** | **1.9197** | **9.8926** | **1.9593** |
| Stddev | .304 | .00072 | .0066 | .00097 | .00384 | .00300 | .0060 | .0284 | .0037 |
| %RSD | .59672 | .14825 | .06740 | .19305 | 371.12 | .58837 | .30986 | .28736 | .19032 |
| #1 | 50.707 | .48732 | 9.7410 | .50474 | -.00375 | .51161 | 1.9239 | 9.8725 | 1.9619 |
| #2 | 51.137 | .48834 | 9.7317 | .50337 | .00168 | .50737 | 1.9155 | 9.9127 | 1.9567 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95767** | **1.0301** | **1.0192** | **1.9903** | **2.0889** | **.49203** | **.49063** | **.49051** |
| Stddev | .00034 | .0002 | .0000 | .0045 | .0163 | .00091 | .00222 | .00209 |
| %RSD | .03544 | .01705 | .00127 | .22821 | .77951 | .18500 | .45149 | .42595 |
| #1 | .95791 | 1.0299 | 1.0192 | 1.9935 | 2.1004 | .49139 | .48906 | .48904 |
| #2 | .95743 | 1.0302 | 1.0192 | 1.9871 | 2.0774 | .49267 | .49220 | .49199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6513.5** | **87602.** | **5639.4** |
| Stddev | 11.0 | 221. | 4.8 |
| %RSD | .16943 | .25182 | .08443 |
| #1 | 6521.3 | 87446. | 5642.8 |
| #2 | 6505.7 | 87758. | 5636.0 |

Sample Name: 280-42039-F-11-C MSD Acquired: 5/21/2013 15:06:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05468** | **1.8794** | **.96819** | **.98295** | **2.0282** | **.04794** | **2.0643** | **49.519** | **.10332** |
| Stddev | .00011 | .0030 | .00111 | .00260 | .0002 | .00008 | .0073 | .177 | .00035 |
| %RSD | .19611 | .15739 | .11448 | .26465 | .00942 | .16157 | .35409 | .35831 | .33456 |
| #1 | .05475 | 1.8773 | .96740 | .98111 | 2.0281 | .04788 | 2.0591 | 49.645 | .10308 |
| #2 | .05460 | 1.8815 | .96897 | .98479 | 2.0283 | .04799 | 2.0695 | 49.394 | .10357 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50174** | **.19755** | **.24507** | **.98766** | **50.458** | **1.0070** | **49.079** | **.49947** | **.99283** |
| Stddev | .00002 | .00003 | .00030 | .00329 | .167 | .0011 | .021 | .00048 | .00078 |
| %RSD | .00409 | .01514 | .12051 | .33287 | .33121 | .11216 | .04314 | .09682 | .07823 |
| #1 | .50173 | .19753 | .24528 | .98998 | 50.576 | 1.0078 | 49.094 | .49982 | .99228 |
| #2 | .50176 | .19757 | .24486 | .98533 | 50.340 | 1.0062 | 49.064 | .49913 | .99338 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.650** | **.48875** | **9.7897** | **.50345** | **.00072** | **.51847** | **1.9376** | **9.9848** | **1.9744** |
| Stddev | .012 | .00081 | .0179 | .00125 | .00035 | .00060 | .0149 | .0095 | .0072 |
| %RSD | .02404 | .16561 | .18319 | .24914 | 48.685 | .11593 | .76638 | .09510 | .36386 |
| #1 | 50.658 | .48818 | 9.7770 | .50257 | .00047 | .51890 | 1.9271 | 9.9916 | 1.9693 |
| #2 | 50.641 | .48932 | 9.8024 | .50434 | .00097 | .51805 | 1.9481 | 9.9781 | 1.9794 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96312** | **1.0428** | **1.0289** | **1.9992** | **2.0877** | **.49254** | **.49536** | **.49819** |
| Stddev | .00284 | .0012 | .0021 | .0025 | .0075 | .00125 | .00061 | .00178 |
| %RSD | .29513 | .11399 | .20772 | .12494 | .35739 | .25416 | .12390 | .35770 |
| #1 | .96513 | 1.0419 | 1.0304 | 1.9974 | 2.0825 | .49342 | .49579 | .49693 |
| #2 | .96111 | 1.0436 | 1.0274 | 2.0009 | 2.0930 | .49165 | .49492 | .49945 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6541.0** | **87117.** | **5578.6** |
| Stddev | 8.3 | 67. | 23.4 |
| %RSD | .12733 | .07707 | .41939 |
| #1 | 6535.1 | 87070. | 5562.0 |
| #2 | 6546.9 | 87165. | 5595.1 |

Sample Name: pds 280-42039-F-11-A  Acquired: 5/21/2013 15:08:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04960** | **1.0200** | **.19997** | **.10210** | **.10553** | **.04980** | **-.00370** | **20.547** | **.05379** |
| Stddev | .00075 | .0025 | .00002 | .00061 | .00036 | .00007 | .00116 | .099 | .00017 |
| %RSD | 1.5032 | .24564 | .00836 | .59713 | .34185 | .13873 | 31.314 | .48375 | .30936 |
| #1 | .04907 | 1.0217 | .19999 | .10167 | .10579 | .04985 | -.00452 | 20.477 | .05367 |
| #2 | .05013 | 1.0182 | .19996 | .10253 | .10527 | .04975 | -.00288 | 20.618 | .05391 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05309** | **.05214** | **.05143** | **1.0501** | **20.900** | **.10754** | **20.326** | **.05341** | **.05108** |
| Stddev | .00014 | .00013 | .00006 | .0023 | .084 | .00060 | .010 | .00014 | .00002 |
| %RSD | .25535 | .25077 | .12092 | .21719 | .40284 | .55623 | .05046 | .25735 | .03049 |
| #1 | .05299 | .05204 | .05138 | 1.0517 | 20.840 | .10712 | 20.333 | .05331 | .05107 |
| #2 | .05318 | .05223 | .05147 | 1.0485 | 20.959 | .10796 | 20.319 | .05351 | .05110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.298** | **.05164** | **2.1774** | **.10692** | **.01159** | **.10609** | **.20094** | **5.0597** | **.10286** |
| Stddev | .198 | .00046 | .0113 | .00011 | .00024 | .00362 | .00330 | .0349 | .00075 |
| %RSD | .93100 | .88408 | .51948 | .10620 | 2.0888 | 3.4110 | 1.6403 | .68929 | .72825 |
| #1 | 21.157 | .05132 | 2.1694 | .10684 | .01142 | .10354 | .19861 | 5.0843 | .10233 |
| #2 | 21.438 | .05196 | 2.1854 | .10700 | .01176 | .10865 | .20327 | 5.0350 | .10339 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05211** | **.21883** | **.05283** | **.21668** | **.54272** | **.05136** | **.21194** | **.05107** |
| Stddev | .00029 | .00283 | .00047 | .00010 | .01754 | .00079 | .00100 | .00258 |
| %RSD | .55646 | 1.2921 | .88388 | .04607 | 3.2313 | 1.5394 | .46987 | 5.0582 |
| #1 | .05232 | .21683 | .05316 | .21661 | .55512 | .05192 | .21123 | .05290 |
| #2 | .05191 | .22083 | .05250 | .21675 | .53032 | .05080 | .21264 | .04925 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6634.7** | **89628.** | **5707.2** |
| Stddev | 5.6 | 142. | 3.5 |
| %RSD | .08464 | .15825 | .06151 |
| #1 | 6630.7 | 89728. | 5709.7 |
| #2 | 6638.7 | 89528. | 5704.7 |

Sample Name: 280-42158-E-47-A Acquired: 5/21/2013 15:10:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.03127** | **-.00012** | **.01035** | **.02690** | **-.00006** | **-.00083** | **35.071** | **.00018** |
| Stddev | .00039 | .00015 | .00082 | .00050 | .00018 | .00004 | .00168 | .065 | .00010 |
| %RSD | 375.97 | .46803 | 696.72 | 4.7928 | .66542 | 71.947 | 203.09 | .18459 | 57.131 |
| #1 | -.00017 | .03137 | -.00070 | .01070 | .02703 | -.00009 | -.00202 | 35.025 | .00011 |
| #2 | .00038 | .03117 | .00046 | .01000 | .02677 | -.00003 | .00036 | 35.117 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.00004** | **.00160** | **.03442** | **1.7521** | **.00305** | **8.8172** | **.00169** | **.00043** |
| Stddev | .00039 | .00007 | .00028 | .00214 | .0370 | .00219 | .0015 | .00005 | .00007 |
| %RSD | 361.06 | 175.59 | 17.663 | 6.2290 | 2.1095 | 72.008 | .01659 | 3.1124 | 16.167 |
| #1 | -.00038 | -.00001 | .00180 | .03594 | 1.7782 | .00460 | 8.8182 | .00165 | .00048 |
| #2 | .00017 | .00009 | .00140 | .03290 | 1.7260 | .00150 | 8.8162 | .00173 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **10.266** | **10.893** | **.00071** | **.15536** | **-.00040** | **8.3337** | **.00125** | **-.00015** | **.53698** |
| Stddev | .010 | .146 | .00026 | .00034 | .00112 | .0210 | .00031 | .00147 | .01012 |
| %RSD | .09857 | 1.3437 | 36.752 | .22038 | 277.26 | .25211 | 25.009 | 974.43 | 1.8846 |
| #1 | 10.259 | 10.996 | .00052 | .15512 | .00039 | 8.3486 | .00103 | -.00119 | .52982 |
| #2 | 10.273 | 10.789 | .00089 | .15561 | -.00119 | 8.3189 | .00148 | .00089 | .54413 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.16877** | **.00068** | **.00079** | **-.00012** | **-.02753** | **-.00021** | **.00753** | **.00046** |
| Stddev | .00071 | .00028 | .00089 | .00010 | .00013 | .00833 | .00032 | .00053 | .00109 |
| %RSD | 277.71 | .16581 | 131.32 | 12.888 | 114.55 | 30.261 | 147.43 | 6.9827 | 235.22 |
| #1 | -.00024 | .16858 | .00005 | .00086 | -.00021 | -.03343 | -.00044 | .00790 | .00123 |
| #2 | .00075 | .16897 | .00130 | .00072 | -.00002 | -.02164 | .00001 | .00716 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6644.1** | **90100.** | **5658.7** |
| Stddev | 14.7 | 97. | 4.3 |
| %RSD | .22110 | .10718 | .07685 |
| #1 | 6633.7 | 90032. | 5661.8 |
| #2 | 6654.5 | 90169. | 5655.6 |

Sample Name: 280-42159-C-63-A  Acquired: 5/21/2013 15:13:24  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00464** | **.00329** | **.00167** | **.00080** | **-.00008** | **.00028** | **.03045** | **.00013** |
| Stddev | .00049 | .00014 | .00172 | .00016 | .00048 | .00004 | .00182 | .00004 | .00003 |
| %RSD | 130.93 | 3.0819 | 52.198 | 9.8290 | 59.118 | 48.514 | 656.13 | .11546 | 20.049 |
| #1 | .00003 | .00474 | .00208 | .00155 | .00114 | -.00005 | .00156 | .03047 | .00014 |
| #2 | .00072 | .00454 | .00451 | .00178 | .00047 | -.00010 | -.00101 | .03042 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00013** | **-.00095** | **.01450** | **.01249** | **-.00044** | **.00761** | **.00060** | **.00033** |
| Stddev | .00033 | .00001 | .00038 | .00319 | .04433 | .00174 | .00123 | .00003 | .00005 |
| %RSD | 281.02 | 9.4461 | 40.524 | 22.018 | 355.03 | 399.08 | 16.137 | 4.5414 | 14.651 |
| #1 | -.00035 | .00013 | -.00068 | .01676 | .04383 | .00079 | .00674 | .00062 | .00037 |
| #2 | .00012 | .00012 | -.00122 | .01224 | -.01886 | -.00166 | .00847 | .00058 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.04054** | **-.00020** | **.17073** | **.00106** | **.01006** | **.00042** | **.00169** | **.02066** | **-.00052** |
| Stddev | .00031 | .00008 | .00039 | .00052 | .00399 | .00128 | .00149 | .01186 | .00002 |
| %RSD | .77076 | 40.330 | .22792 | 48.921 | 39.728 | 307.63 | 88.446 | 57.386 | 3.6207 |
| #1 | -.04076 | -.00026 | .17101 | .00069 | .01288 | .00132 | .00063 | .01228 | -.00050 |
| #2 | -.04032 | -.00014 | .17046 | .00142 | .00723 | -.00049 | .00274 | .02904 | -.00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **-.00028** | **.00010** | **.00038** | **-.00788** | **-.00004** | **.00338** | **.00009** |
| Stddev | .00008 | .00021 | .00049 | .00023 | .02102 | .00059 | .00017 | .00013 |
| %RSD | 237.61 | 75.406 | 486.67 | 61.508 | 266.91 | 1398.3 | 5.0637 | 139.00 |
| #1 | -.00002 | -.00013 | .00044 | .00022 | .00699 | -.00046 | .00350 | .00019 |
| #2 | .00010 | -.00042 | -.00024 | .00055 | -.02274 | .00037 | .00326 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6753.7** | **91349.** | **5740.9** |
| Stddev | 14.0 | 18. | 43.9 |
| %RSD | .20755 | .02019 | .76412 |
| #1 | 6743.8 | 91362. | 5771.9 |
| #2 | 6763.6 | 91336. | 5709.8 |

Sample Name: 280-42159-C-64-A  Acquired: 5/21/2013 15:15:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 174378 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00467** | **-.00031** | **.00195** | **.00002** | **-.00008** | **-.00154** | **.01881** | **.00018** |
| Stddev | .00055 | .00014 | .00301 | .00009 | .00019 | .00001 | .00150 | .00145 | .00000 |
| %RSD | 97.464 | 3.0979 | 973.29 | 4.7181 | 930.67 | 13.862 | 97.491 | 7.7325 | 2.0709 |
| #1 | .00018 | .00477 | .00182 | .00188 | .00016 | -.00008 | -.00260 | .01984 | .00018 |
| #2 | .00096 | .00457 | -.00244 | .00201 | -.00012 | -.00009 | -.00048 | .01778 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00023** | **-.00093** | **.01061** | **.00495** | **-.00175** | **.00491** | **.00050** | **.00021** |
| Stddev | .00016 | .00021 | .00081 | .00325 | .05616 | .00087 | .00142 | .00008 | .00003 |
| %RSD | 240.26 | 91.896 | 87.504 | 30.631 | 1135.3 | 49.725 | 28.855 | 15.879 | 16.263 |
| #1 | -.00018 | .00008 | -.00150 | .01291 | -.03476 | -.00114 | .00391 | .00044 | .00023 |
| #2 | .00005 | .00038 | -.00035 | .00831 | .04466 | -.00237 | .00591 | .00055 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02598** | **.00043** | **.15305** | **-.00027** | **.01080** | **.00179** | **.00323** | **.02369** | **.00006** |
| Stddev | .00662 | .00001 | .00160 | .00063 | .00043 | .00196 | .00314 | .00486 | .00062 |
| %RSD | 25.493 | 1.3423 | 1.0467 | 236.90 | 3.9651 | 109.30 | 97.103 | 20.525 | 1027.8 |
| #1 | .02129 | .00043 | .15418 | .00018 | .01111 | .00317 | .00101 | .02025 | -.00038 |
| #2 | .03066 | .00044 | .15191 | -.00071 | .01050 | .00041 | .00545 | .02713 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **-.00064** | **-.00010** | **.00021** | **-.02160** | **-.00033** | **.00286** | **.00101** |
| Stddev | .00003 | .00027 | .00002 | .00083 | .00093 | .00031 | .00013 | .00278 |
| %RSD | 20.438 | 42.657 | 18.385 | 394.66 | 4.2847 | 95.525 | 4.4362 | 275.52 |
| #1 | .00018 | -.00083 | -.00009 | .00080 | -.02226 | -.00011 | .00295 | -.00096 |
| #2 | .00014 | -.00045 | -.00012 | -.00038 | -.02095 | -.00055 | .00277 | .00298 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6769.0** | **91392.** | **5759.2** |
| Stddev | 1.4 | 269. | 11.1 |
| %RSD | .02070 | .29423 | .19200 |
| #1 | 6770.0 | 91582. | 5751.3 |
| #2 | 6768.0 | 91202. | 5767.0 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 15:18:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00216** | **49.764** | **.00037** | **.00258** | **.00053** | **-.00002** | **1.0006** | **.00132** | **-.00066** | **.00202** | **-.00028** | **.00051** | **49.851** |
| Stddev | .00034 | .326 | .00265 | .00055 | .00008 | .00007 | .0003 | .00011 | .00008 | .00023 | .00003 | .00026 | .148 |
| %RSD | 15.986 | .65527 | 709.54 | 21.244 | 15.984 | 329.72 | .02647 | 8.6310 | 12.741 | 11.628 | 11.308 | 50.996 | .29709 |
| #1 | .00191 | 49.995 | -.00150 | .00219 | .00059 | -.00007 | 1.0004 | .00140 | -.00060 | .00185 | -.00030 | .00070 | 49.956 |
| #2 | .00240 | 49.534 | .00225 | .00297 | .00047 | .00003 | 1.0008 | .00124 | -.00072 | .00219 | -.00026 | .00033 | 49.747 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01325** | **-.00023** | **-.00319** | **-.00065** | **-.00202** | **247.29** | **.00082** | **.00558** | **.00112** | **4.9585** | **-.00005** | **.00270** | **.00660** |
| Stddev | .01807 | .00094 | .00076 | .00005 | .00039 | 1.44 | .00008 | .00205 | .00282 | .0066 | .00251 | .00403 | .00908 |
| %RSD | 136.39 | 407.30 | 23.804 | 8.2163 | 19.152 | .58216 | 9.7646 | 36.715 | 251.08 | .13240 | 4677.6 | 149.45 | 137.51 |
| #1 | .00047 | .00044 | -.00373 | -.00069 | -.00229 | 248.30 | .00087 | .00413 | .00312 | 4.9632 | -.00183 | .00554 | .01302 |
| #2 | .02602 | -.00090 | -.00265 | -.00062 | -.00174 | 246.27 | .00076 | .00703 | -.00087 | 4.9539 | .00172 | -.00015 | .00018 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **.00036** | **5.1387** | **.00316** | **-.00193** | **10.027** | **-.00018** | **.00310** | **-.04062** |
| Stddev | .00002 | .00005 | .0097 | .00037 | .00283 | .000 | .00003 | .00045 | .00446 |
| %RSD | 2.8778 | 13.923 | .18958 | 11.745 | 146.11 | .00252 | 18.129 | 14.450 | 10.979 |
| #1 | .00071 | .00032 | 5.1318 | .00290 | .00006 | 10.027 | -.00020 | .00278 | -.03746 |
| #2 | .00074 | .00039 | 5.1456 | .00343 | -.00393 | 10.027 | -.00015 | .00342 | -.04377 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6529.1** | **87994.** | **5662.5** |
| Stddev | 2.7 | 121. | 6.6 |
| %RSD | .04136 | .13790 | .11719 |
| #1 | 6531.0 | 87908. | 5667.2 |
| #2 | 6527.1 | 88080. | 5657.8 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 15:20:47 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51806** | **.49453** | **.98281** | **.48556** | **.50214** | **.47811** | **.00100** | **5.0112** | **.50789** | **.51380** | **.49567** | **.49010** | **2.4716** |
| Stddev | .00055 | .00060 | .00194 | .00114 | .00014 | .00022 | .00226 | .0007 | .00006 | .00026 | .00003 | .00030 | .0021 |
| %RSD | .10576 | .12216 | .19710 | .23485 | .02833 | .04640 | 226.18 | .01429 | .01214 | .05030 | .00690 | .06021 | .08403 |
| #1 | .51844 | .49496 | .98418 | .48475 | .50203 | .47796 | .00260 | 5.0118 | .50785 | .51362 | .49570 | .48989 | 2.4702 |
| #2 | .51767 | .49410 | .98144 | .48637 | .50224 | .47827 | -.00060 | 5.0107 | .50793 | .51398 | .49565 | .49030 | 2.4731 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.170** | **1.0071** | **19.825** | **.50530** | **.49343** | **4.9355** | **.50263** | **.95576** | **1.0273** | **-.00096** | **1.0130** | **.96778** | **4.8816** |
| Stddev | .034 | .0012 | .035 | .00088 | .00112 | .0170 | .00052 | .00336 | .0037 | .00216 | .0078 | .00771 | .0355 |
| %RSD | .06808 | .11743 | .17731 | .17352 | .22744 | .34478 | .10377 | .35185 | .35541 | 224.86 | .77016 | .79718 | .72716 |
| #1 | 50.194 | 1.0079 | 19.850 | .50592 | .49422 | 4.9475 | .50300 | .95814 | 1.0299 | .00057 | 1.0185 | .97323 | 4.9067 |
| #2 | 50.146 | 1.0062 | 19.800 | .50468 | .49264 | 4.9235 | .50226 | .95338 | 1.0247 | -.00249 | 1.0075 | .96232 | 4.8565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99382** | **.48260** | **.00033** | **.50934** | **1.0198** | **.03903** | **.48965** | **.50385** | **.50146** |
| Stddev | .00211 | .00111 | .00134 | .00075 | .0030 | .02409 | .00016 | .00208 | .00267 |
| %RSD | .21261 | .23028 | 408.89 | .14785 | .29804 | 61.739 | .03332 | .41259 | .53158 |
| #1 | .99531 | .48339 | -.00062 | .50987 | 1.0219 | .05606 | .48954 | .50532 | .49957 |
| #2 | .99232 | .48182 | .00128 | .50880 | 1.0176 | .02199 | .48977 | .50238 | .50334 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6681.7** | **89732.** | **5595.2** |
| Stddev | 6.2 | 390. | 10.7 |
| %RSD | .09315 | .43465 | .19065 |
| #1 | 6677.3 | 89457. | 5587.6 |
| #2 | 6686.2 | 90008. | 5602.7 |

Sample Name: CCB Acquired: 5/21/2013 15:23:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **-.00034** | **.00210** | W **.00165** | **.00026** | **.00004** | **.00082** | **-.00198** | **.00019** | **-.00005** | **.00001** |
| Stddev | .00016 | .00038 | .00115 | .00101 | .00009 | .00007 | .00067 | .00132 | .00006 | .00011 | .00001 |
| %RSD | 56.536 | 109.94 | 54.751 | 61.198 | 36.662 | 178.38 | 81.722 | 66.554 | 32.585 | 206.27 | 136.57 |
| #1 | .00017 | -.00008 | .00129 | .00236 | .00032 | -.00001 | .00035 | -.00292 | .00015 | .00002 | .00001 |
| #2 | .00040 | -.00061 | .00292 | .00093 | .00019 | .00008 | .00129 | -.00105 | .00023 | -.00013 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00099** | **.00099** | **.00377** | **-.00212** | **.00223** | **.00011** | **.00018** | **-.01805** | **-.00002** | **.00217** | **-.00011** |
| Stddev | .00019 | .00147 | .00194 | .00204 | .00040 | .00003 | .00012 | .00921 | .00038 | .00116 | .00088 |
| %RSD | 19.577 | 148.78 | 51.501 | 96.353 | 17.712 | 24.631 | 67.168 | 51.020 | 1821.7 | 53.531 | 836.14 |
| #1 | -.00086 | .00203 | .00239 | -.00068 | .00195 | .00009 | .00027 | -.02457 | -.00029 | .00300 | -.00073 |
| #2 | -.00113 | -.00005 | .00514 | -.00356 | .00251 | .00012 | .00010 | -.01154 | .00025 | .00135 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00035** | **.00264** | **-.00031** | **-.00248** | **.00066** | **-.00009** | **-.00034** | **-.00000** | **.00102** | **-.00145** | **-.00064** |
| Stddev | .00066 | .00076 | .00214 | .00503 | .00024 | .00007 | .00154 | .00021 | .00256 | .05618 | .00000 |
| %RSD | 186.79 | 28.727 | 684.09 | 202.93 | 36.526 | 81.373 | 449.71 | 11625. | 250.96 | 3872.3 | .53969 |
| #1 | .00011 | .00317 | .00120 | -.00604 | .00049 | -.00014 | -.00143 | -.00015 | .00283 | .03827 | -.00064 |
| #2 | -.00082 | .00210 | -.00182 | .00108 | .00083 | -.00004 | .00075 | .00015 | -.00079 | -.04117 | -.00064 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00252** | **-.00139** |
| Stddev | .00034 | .00167 |
| %RSD | 13.525 | 120.52 |
| #1 | .00228 | -.00257 |
| #2 | .00277 | -.00020 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6681.1** | **90220.** | **5613.6** |
| Stddev | 5.3 | 33. | 25.8 |
| %RSD | .07936 | .03666 | .46047 |
| #1 | 6684.9 | 90196. | 5595.3 |
| #2 | 6677.4 | 90243. | 5631.9 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 15:25:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01044** | **.10104** | **.01656** | **.09546** | **.01037** | **.00091** | **.10775** | **.21062** | **.00540** | **.01067** | **.01010** |
| Stddev | .00014 | .00067 | .00033 | .00053 | .00048 | .00005 | .00255 | .00357 | .00011 | .00016 | .00014 |
| %RSD | 1.3052 | .66272 | 2.0068 | .55080 | 4.6495 | 5.1605 | 2.3651 | 1.6929 | 2.0426 | 1.4563 | 1.3608 |
| #1 | .01034 | .10151 | .01633 | .09509 | .01003 | .00094 | .10595 | .21314 | .00533 | .01056 | .01001 |
| #2 | .01053 | .10057 | .01680 | .09583 | .01072 | .00087 | .10955 | .20810 | .00548 | .01078 | .01020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01429** | **.10356** | **3.0762** | **.01006** | **.20769** | **.01050** | **.01985** | **1.0019** | **.04119** | **2.8055** | **.00912** |
| Stddev | .00047 | .00198 | .0197 | .00088 | .00108 | .00001 | .00002 | .0030 | .00007 | .0046 | .00086 |
| %RSD | 3.2674 | 1.9154 | .63963 | 8.7939 | .52164 | .12235 | .11627 | .30264 | .16475 | .16330 | 9.4206 |
| #1 | .01462 | .10497 | 3.0902 | .01069 | .20845 | .01051 | .01987 | 1.0041 | .04124 | 2.8022 | .00972 |
| #2 | .01396 | .10216 | 3.0623 | .00944 | .20692 | .01049 | .01983 | .99977 | .04114 | 2.8087 | .00851 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | W **.01228** | **.01381** | **.49858** | **.10001** | **.00990** | **.01606** | **.01016** | **.01707** | W **.07513** | **.00967** |
| Stddev | .00049 | .00090 | .00352 | .00004 | .00021 | .00012 | .00220 | .00011 | .00125 | .02072 | .00034 |
| %RSD | 56.069 | 7.3361 | 25.471 | .00876 | .20988 | 1.1750 | 13.719 | 1.0718 | 7.3233 | 27.581 | 3.4996 |
| #1 | .00053 | .01292 | .01629 | .49855 | .10016 | .00998 | .01762 | .01024 | .01619 | .06048 | .00943 |
| #2 | .00122 | .01165 | .01132 | .49861 | .09986 | .00981 | .01451 | .01008 | .01795 | .08978 | .00991 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02326** | **.01353** |
| Stddev | .00046 | .00113 |
| %RSD | 1.9570 | 8.3683 |
| #1 | .02358 | .01433 |
| #2 | .02293 | .01273 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6656.1** | **90172.** | **5623.9** |
| Stddev | 1.2 | 314. | 6.4 |
| %RSD | .01779 | .34771 | .11292 |
| #1 | 6655.2 | 89950. | 5619.4 |
| #2 | 6656.9 | 90393. | 5628.4 |

Sample Name: MB 280-173668/1-A Acquired: 5/21/2013 15:27:55 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.02128** | **.00110** | F **.02237** | **.00049** | **.00004** | **-.00069** | **.04721** | **.00014** |
| Stddev | .00002 | .00073 | .00215 | .00004 | .00008 | .00007 | .00091 | .00637 | .00021 |
| %RSD | 8.9056 | 3.4479 | 194.68 | .19298 | 15.723 | 168.72 | 132.28 | 13.494 | 146.62 |
| #1 | .00030 | .02180 | .00262 | .02234 | .00054 | -.00001 | -.00004 | .05171 | -.00001 |
| #2 | .00026 | .02076 | -.00042 | .02240 | .00043 | .00009 | -.00134 | .04270 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.00010** | **.00012** | W **.03489** | **.05926** | **-.00106** | **.01241** | **.00127** | **.00025** |
| Stddev | .00005 | .00015 | .00001 | .00292 | .01803 | .00132 | .00083 | .00007 | .00032 |
| %RSD | 56.524 | 149.64 | 12.045 | 8.3822 | 30.428 | 124.53 | 6.7102 | 5.2937 | 126.72 |
| #1 | -.00013 | .00021 | .00011 | .03695 | .04651 | -.00199 | .01299 | .00122 | .00003 |
| #2 | -.00006 | -.00001 | .00013 | .03282 | .07201 | -.00013 | .01182 | .00132 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22467** | **-.00020** | F **.09808** | **-.00024** | **.03307** | **.00095** | **-.00068** | **.04732** | **.01081** |
| Stddev | .01547 | .00012 | .00008 | .00068 | .00150 | .00270 | .00156 | .00988 | .00007 |
| %RSD | 6.8851 | 58.034 | .08110 | 277.85 | 4.5447 | 285.26 | 229.29 | 20.883 | .63384 |
| #1 | .23561 | -.00029 | .09814 | -.00073 | .03414 | .00285 | -.00179 | .05431 | .01085 |
| #2 | .21373 | -.00012 | .09803 | .00024 | .03201 | -.00096 | .00042 | .04033 | .01076 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **-.00035** | **.00036** | **.00003** | **-.00043** | **-.00010** | **.00366** | **-.00100** |
| Stddev | .00006 | .00196 | .00027 | .00068 | .02198 | .00017 | .00031 | .00002 |
| %RSD | 34.251 | 568.45 | 74.061 | 2310.4 | 5126.4 | 173.91 | 8.5267 | 2.2193 |
| #1 | .00020 | .00104 | .00056 | .00051 | -.01597 | -.00021 | .00344 | -.00098 |
| #2 | .00012 | -.00173 | .00017 | -.00045 | .01512 | .00002 | .00388 | -.00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6773.7** | **91820.** | **5784.5** |
| Stddev | 1.1 | 195. | 41.7 |
| %RSD | .01680 | .21183 | .72054 |
| #1 | 6774.5 | 91958. | 5755.0 |
| #2 | 6772.9 | 91683. | 5813.9 |

Sample Name: LCS 280-173668/2-A Acquired: 5/21/2013 15:30:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05210** | **1.8803** | **.93567** | **1.0607** | **1.9738** | **.04683** | **1.9863** | **47.880** | **.09987** |
| Stddev | .00010 | .0035 | .00289 | .0000 | .0075 | .00003 | .0044 | .181 | .00002 |
| %RSD | .18600 | .18461 | .30851 | .00136 | .37840 | .07004 | .22089 | .37723 | .01686 |
| #1 | .05216 | 1.8828 | .93771 | 1.0607 | 1.9791 | .04685 | 1.9832 | 48.007 | .09988 |
| #2 | .05203 | 1.8778 | .93363 | 1.0607 | 1.9685 | .04681 | 1.9894 | 47.752 | .09986 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48750** | **.19126** | **.23906** | **.99807** | **48.844** | **.97744** | **46.884** | **.48222** | **.94134** |
| Stddev | .00027 | .00008 | .00073 | .00390 | .352 | .00248 | .000 | .00006 | .00076 |
| %RSD | .05472 | .04402 | .30667 | .39074 | .72051 | .25409 | .00065 | .01192 | .08022 |
| #1 | .48731 | .19120 | .23854 | 1.0008 | 49.093 | .97920 | 46.885 | .48226 | .94187 |
| #2 | .48769 | .19132 | .23958 | .99532 | 48.595 | .97568 | 46.884 | .48218 | .94080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.087** | **.47378** | **9.4177** | **.48630** | **.02780** | **.48748** | **1.8461** | **2.2882** | **1.8714** |
| Stddev | .374 | .00048 | .0011 | .00121 | .00247 | .00066 | .0024 | .0064 | .0054 |
| %RSD | .74701 | .10031 | .01163 | .24818 | 8.8693 | .13588 | .12825 | .27925 | .28994 |
| #1 | 50.351 | .47412 | 9.4185 | .48715 | .02955 | .48795 | 1.8445 | 2.2837 | 1.8752 |
| #2 | 49.822 | .47345 | 9.4169 | .48544 | .02606 | .48701 | 1.8478 | 2.2928 | 1.8675 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93401** | **.99531** | **.97996** | **1.9274** | **1.9979** | **.47449** | **.47263** | **.47601** |
| Stddev | .00587 | .00058 | .00056 | .0043 | .0058 | .00045 | .00107 | .00276 |
| %RSD | .62879 | .05819 | .05686 | .22294 | .29159 | .09506 | .22629 | .57951 |
| #1 | .93816 | .99572 | .98036 | 1.9304 | 1.9937 | .47480 | .47339 | .47406 |
| #2 | .92986 | .99490 | .97957 | 1.9243 | 2.0020 | .47417 | .47187 | .47796 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6521.7** | **88219.** | **5625.9** |
| Stddev | 5.6 | 69. | 29.4 |
| %RSD | .08519 | .07797 | .52343 |
| #1 | 6517.8 | 88268. | 5605.1 |
| #2 | 6525.6 | 88170. | 5646.8 |

Sample Name: 280-42046-A-1-A Acquired: 5/21/2013 15:32:39 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00137** | **120.79** | **.04376** | **.02466** | **.50627** | **.00481** | **.00047** | **14.103** | **.00297** |
| Stddev | .00012 | 1.09 | .00190 | .00051 | .00623 | .00000 | .00063 | .133 | .00002 |
| %RSD | 8.3843 | .90560 | 4.3509 | 2.0769 | 1.2312 | .03357 | 135.45 | .94585 | .64071 |
| #1 | .00129 | 120.02 | .04241 | .02430 | .50186 | .00481 | .00091 | 14.008 | .00298 |
| #2 | .00145 | 121.57 | .04510 | .02502 | .51067 | .00481 | .00002 | 14.197 | .00296 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06392** | **.13044** | **.29596** | **209.07** | **8.7429** | **.16962** | **33.160** | W **11.229** | **.00358** |
| Stddev | .00017 | .00009 | .00090 | 2.24 | .0467 | .00200 | .038 | .143 | .00037 |
| %RSD | .27246 | .06770 | .30562 | 1.0708 | .53425 | 1.1806 | .11331 | 1.2693 | 10.290 |
| #1 | .06379 | .13050 | .29660 | 207.49 | 8.7099 | .16820 | 33.186 | 11.128 | .00332 |
| #2 | .06404 | .13038 | .29532 | 210.66 | 8.7759 | .17103 | 33.133 | 11.330 | .00385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39333** | **.15626** | **5.3271** | **.15533** | **.60769** | **-.00207** | **.00324** | **2.1888** | **.00906** |
| Stddev | .00982 | .00008 | .0131 | .00151 | .00357 | .00123 | .00277 | .0212 | .00076 |
| %RSD | 2.4975 | .04841 | .24581 | .97096 | .58693 | 59.683 | 85.733 | .97021 | 8.4332 |
| #1 | .40028 | .15631 | 5.3179 | .15639 | .60517 | -.00119 | .00520 | 2.2038 | .00960 |
| #2 | .38639 | .15621 | 5.3364 | .15426 | .61021 | -.00294 | .00127 | 2.1738 | .00852 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05905** | **.05329** | **.70403** | W **-.01015** | **-.04552** | **.18406** | **.75288** | **.02093** |
| Stddev | .00070 | .00255 | .00538 | .00030 | .01725 | .00015 | .00240 | .00126 |
| %RSD | 1.1798 | 4.7842 | .76423 | 2.9560 | 37.900 | .08396 | .31907 | 6.0229 |
| #1 | .05855 | .05510 | .70023 | -.01036 | -.03332 | .18417 | .75118 | .02182 |
| #2 | .05954 | .05149 | .70784 | -.00994 | -.05772 | .18395 | .75458 | .02004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7148.4** | **95181.** | **6134.9** |
| Stddev | 3.6 | 422. | 22.5 |
| %RSD | .05052 | .44351 | .36727 |
| #1 | 7145.9 | 95479. | 6150.9 |
| #2 | 7151.0 | 94882. | 6119.0 |

Sample Name: sd 280-42046-A-1-A@5 Acquired: 5/21/2013 15:35:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00065** | **25.630** | k **.01005** | **.00666** | **.10665** | k **.00086** | k **-.00060** | **3.0017** | k **.00078** |
| Stddev | .00017 | .120 | .00306 | .00014 | .00023 | .00001 | .00033 | .0082 | .00002 |
| %RSD | 26.657 | .46960 | 30.486 | 2.1580 | .21378 | 1.0571 | 55.443 | .27399 | 2.4827 |
| #1 | k .00077 | 25.545 | k .00789 | .00656 | .10681 | k .00085 | k -.00036 | 2.9958 | k .00079 |
| #2 | k .00053 | 25.715 | k .01222 | .00676 | .10649 | k .00087 | k -.00083 | 3.0075 | k .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01399** | k **.02792** | k **.06066** | k **44.890** | **1.8101** | **.03508** | k **7.0625** | **2.4389** | **.00062** |
| Stddev | .00015 | .00000 | .00006 | .127 | .0582 | .00046 | .0024 | .0001 | .00001 |
| %RSD | 1.0433 | .01586 | .10611 | .28387 | 3.2155 | 1.3005 | .03462 | .00441 | 1.1288 |
| #1 | k .01409 | .02792 | k .06071 | k 44.800 | 1.8513 | .03540 | k 7.0642 | 2.4389 | .00062 |
| #2 | k .01388 | k .02793 | k .06062 | k 44.981 | 1.7690 | .03476 | 7.0607 | 2.4390 | .00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04054** | **.03389** | **1.1336** | k **.03402** | **.12685** | k **-.00198** | k **.00123** | **.47413** | k **.00191** |
| Stddev | .00190 | .00021 | .0050 | .00012 | .00188 | .00275 | .00112 | .02195 | .00001 |
| %RSD | 4.6818 | .62910 | .44124 | .34235 | 1.4842 | 139.09 | 90.496 | 4.6300 | .49369 |
| #1 | .04188 | .03374 | 1.1371 | k .03393 | .12818 | k -.00003 | k .00044 | .48965 | k .00190 |
| #2 | .03919 | .03404 | 1.1300 | k .03410 | .12552 | k -.00392 | k .00202 | .45861 | k .00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01235** | k **.04480** | k **.14738** | k **-.00184** | kW **-.05150** | k **.03887** | k **.16377** | k **.00495** |
| Stddev | .00004 | .00017 | .00229 | .00135 | .03187 | .00020 | .00171 | .00053 |
| %RSD | .36270 | .38547 | 1.5531 | 73.273 | 61.884 | .50995 | 1.0424 | 10.798 |
| #1 | .01239 | k .04492 | k .14576 | k -.00279 | k -.02897 | k .03901 | .16498 | k .00533 |
| #2 | .01232 | k .04468 | k .14900 | k -.00089 | k -.07404 | k .03873 | k .16256 | k .00457 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6843.9** | **92450.** | **5800.1** |
| Stddev | 3.1 | 113. | 6.2 |
| %RSD | .04472 | .12190 | .10769 |
| #1 | 6846.0 | 92370. | 5795.6 |
| #2 | 6841.7 | 92530. | 5804.5 |

Sample Name: 280-42046-A-1-B MS  Acquired: 5/21/2013 15:37:25  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04927** | **170.76** | **.90215** | **.89595** | **2.4919** | **.04870** | **1.8375** | **61.072** | **.09545** |
| Stddev | .00139 | .43 | .00058 | .00239 | .0037 | .00007 | .0009 | .071 | .00007 |
| %RSD | 2.8216 | .25314 | .06426 | .26632 | .14684 | .15019 | .04789 | .11546 | .07036 |
| #1 | .05026 | 171.07 | .90174 | .89763 | 2.4945 | .04864 | 1.8369 | 61.122 | .09540 |
| #2 | .04829 | 170.46 | .90256 | .89426 | 2.4894 | .04875 | 1.8381 | 61.022 | .09550 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50758** | **.34225** | **.48753** | **218.66** | **71.619** | **1.0991** | **79.067** | W **10.376** | **.85022** |
| Stddev | .00001 | .00044 | .00364 | .60 | .161 | .0021 | .329 | .062 | .00123 |
| %RSD | .00121 | .12958 | .74658 | .27435 | .22539 | .19213 | .41660 | .59530 | .14505 |
| #1 | .50757 | .34256 | .49011 | 219.08 | 71.733 | 1.1006 | 79.300 | 10.332 | .85109 |
| #2 | .50758 | .34194 | .48496 | 218.23 | 71.505 | 1.0976 | 78.834 | 10.419 | .84935 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.781** | **.57625** | **13.930** | **.62148** | **.82734** | **.20957** | **1.6945** | **4.8552** | **1.5826** |
| Stddev | .442 | .00056 | .023 | .00279 | .00029 | .00169 | .0058 | .0239 | .0035 |
| %RSD | .92581 | .09765 | .16828 | .44970 | .03502 | .80516 | .34493 | .49220 | .22233 |
| #1 | 48.094 | .57665 | 13.946 | .62346 | .82713 | .21076 | 1.6986 | 4.8383 | 1.5850 |
| #2 | 47.469 | .57585 | 13.913 | .61951 | .82754 | .20837 | 1.6903 | 4.8721 | 1.5801 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94123** | **.83038** | **2.2959** | **1.6907** | **1.8820** | **.72539** | **1.1052** | **.24448** |
| Stddev | .00395 | .00279 | .0075 | .0029 | .0379 | .00491 | .0050 | .00093 |
| %RSD | .41966 | .33599 | .32793 | .16970 | 2.0165 | .67669 | .45617 | .38198 |
| #1 | .94403 | .83236 | 2.3012 | 1.6927 | 1.9088 | .72886 | 1.1088 | .24514 |
| #2 | .93844 | .82841 | 2.2906 | 1.6886 | 1.8551 | .72192 | 1.1016 | .24382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7002.0** | **93693.** | **6106.9** |
| Stddev | 10.7 | 275. | 10.7 |
| %RSD | .15332 | .29365 | .17449 |
| #1 | 6994.4 | 93498. | 6099.4 |
| #2 | 7009.6 | 93887. | 6114.5 |

Sample Name: 280-42046-A-1-C MSD Acquired: 5/21/2013 15:39:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04890** | **171.25** | **.89877** | **.89458** | **2.4843** | **.04834** | **1.8274** | **62.643** | **.09530** |
| Stddev | .00043 | .57 | .00293 | .00158 | .0057 | .00015 | .0018 | .115 | .00001 |
| %RSD | .88228 | .33438 | .32568 | .17694 | .22783 | .31714 | .10004 | .18342 | .01058 |
| #1 | .04859 | 170.84 | .89670 | .89570 | 2.4803 | .04823 | 1.8261 | 62.562 | .09529 |
| #2 | .04920 | 171.65 | .90084 | .89346 | 2.4883 | .04844 | 1.8287 | 62.725 | .09531 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50479** | **.35179** | **.49021** | **207.76** | **72.294** | **1.0905** | **78.862** | **9.7110** | **.84889** |
| Stddev | .00081 | .00041 | .00090 | .20 | .127 | .0035 | .003 | .0580 | .00113 |
| %RSD | .16128 | .11604 | .18427 | .09759 | .17570 | .32334 | .00380 | .59678 | .13348 |
| #1 | .50536 | .35150 | .48957 | 207.61 | 72.204 | 1.0880 | 78.860 | 9.7520 | .84969 |
| #2 | .50421 | .35207 | .49085 | 207.90 | 72.384 | 1.0930 | 78.864 | 9.6701 | .84809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.060** | **.57080** | **13.963** | **.64417** | **.87177** | **.20111** | **1.6839** | **4.7278** | **1.5746** |
| Stddev | .082 | .00119 | .015 | .00111 | .00156 | .00203 | .0046 | .0477 | .0041 |
| %RSD | .17512 | .20779 | .10893 | .17262 | .17926 | 1.0105 | .27483 | 1.0086 | .25801 |
| #1 | 47.118 | .57164 | 13.974 | .64338 | .87067 | .19967 | 1.6871 | 4.7615 | 1.5775 |
| #2 | 47.001 | .56996 | 13.953 | .64495 | .87288 | .20255 | 1.6806 | 4.6941 | 1.5717 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93998** | **.82784** | **2.1906** | **1.6856** | **1.8218** | **.72954** | **1.1229** | **.22804** |
| Stddev | .00044 | .00074 | .0081 | .0048 | .0297 | .00029 | .0029 | .00240 |
| %RSD | .04681 | .08965 | .37101 | .28382 | 1.6328 | .03988 | .25711 | 1.0512 |
| #1 | .93967 | .82732 | 2.1848 | 1.6890 | 1.8008 | .72975 | 1.1250 | .22634 |
| #2 | .94029 | .82837 | 2.1963 | 1.6823 | 1.8429 | .72934 | 1.1209 | .22973 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7111.9** | **94740.** | **6203.3** |
| Stddev | 18.6 | 19. | 16.1 |
| %RSD | .26208 | .01973 | .25947 |
| #1 | 7098.7 | 94727. | 6214.7 |
| #2 | 7125.1 | 94753. | 6191.9 |

Sample Name: pds 280-42046-A-1-A  Acquired: 5/21/2013 15:42:01  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04837** | **119.54** | **.22428** | **.11259** | **.59496** | **.05041** | **-.00397** | **32.857** | **.05224** |
| Stddev | .00001 | .61 | .00163 | .00019 | .00350 | .00029 | .00143 | .137 | .00011 |
| %RSD | .01924 | .50972 | .72500 | .17000 | .58836 | .57954 | 36.038 | .41794 | .20402 |
| #1 | .04836 | 119.11 | .22313 | .11246 | .59248 | .05020 | -.00296 | 32.760 | .05231 |
| #2 | .04837 | 119.97 | .22543 | .11273 | .59743 | .05061 | -.00498 | 32.954 | .05216 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11154** | **.17535** | **.33750** | **206.37** | **28.169** | **.26289** | **51.472** | W **11.046** | **.04924** |
| Stddev | .00003 | .00002 | .00075 | 1.12 | .046 | .00139 | .102 | .106 | .00005 |
| %RSD | .02761 | .01413 | .22352 | .54324 | .16262 | .53051 | .19860 | .95953 | .09703 |
| #1 | .11156 | .17537 | .33804 | 205.58 | 28.136 | .26190 | 51.399 | 10.971 | .04921 |
| #2 | .11152 | .17533 | .33697 | 207.17 | 28.201 | .26387 | 51.544 | 11.121 | .04927 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.988** | **.20015** | **7.0208** | **.24996** | **.60579** | **.09114** | **.18605** | **6.7646** | **.09985** |
| Stddev | .258 | .00003 | .0039 | .00111 | .00439 | .00014 | .00226 | .0007 | .00034 |
| %RSD | 1.2278 | .01344 | .05558 | .44566 | .72491 | .14936 | 1.2133 | .01038 | .34488 |
| #1 | 20.806 | .20017 | 7.0180 | .25075 | .60889 | .09104 | .18445 | 6.7641 | .09961 |
| #2 | 21.171 | .20013 | 7.0235 | .24917 | .60268 | .09123 | .18765 | 6.7651 | .10009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10526** | **.26000** | **.74356** | **.18054** | **.45314** | **.22855** | **.93094** | **.06559** |
| Stddev | .00031 | .00154 | .00429 | .00144 | .01945 | .00066 | .00397 | .00064 |
| %RSD | .29084 | .59263 | .57743 | .79611 | 4.2923 | .28943 | .42637 | .98209 |
| #1 | .10504 | .26109 | .74660 | .17952 | .43938 | .22808 | .92813 | .06604 |
| #2 | .10547 | .25891 | .74053 | .18155 | .46689 | .22902 | .93375 | .06513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7042.1** | **93911.** | **6105.3** |
| Stddev | .1 | 454. | 2.4 |
| %RSD | .00145 | .48382 | .03893 |
| #1 | 7042.1 | 94232. | 6103.6 |
| #2 | 7042.2 | 93589. | 6106.9 |

Sample Name: 280-42046-A-2-A  Acquired: 5/21/2013 15:44:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **80.964** | **.05477** | **.01939** | **.33190** | **.00411** | **-.00001** | **11.223** | **.00135** |
| Stddev | .00004 | .188 | .00057 | .00034 | .00100 | .00013 | .00044 | .029 | .00019 |
| %RSD | 4.7407 | .23218 | 1.0411 | 1.7643 | .30130 | 3.1558 | 3332.9 | .25894 | 13.899 |
| #1 | .00078 | 81.097 | .05517 | .01963 | .33261 | .00420 | -.00032 | 11.244 | .00122 |
| #2 | .00073 | 80.832 | .05436 | .01915 | .33119 | .00402 | .00030 | 11.203 | .00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05581** | **.08640** | **.24764** | **194.91** | **7.6770** | **.12852** | **24.249** | **9.7844** | **.00303** |
| Stddev | .00006 | .00014 | .00026 | .71 | .0307 | .00381 | .063 | .0347 | .00030 |
| %RSD | .10064 | .16314 | .10345 | .36493 | .39935 | 2.9608 | .26120 | .35496 | 9.8922 |
| #1 | .05585 | .08630 | .24746 | 195.42 | 7.6553 | .13121 | 24.204 | 9.7598 | .00281 |
| #2 | .05577 | .08650 | .24782 | 194.41 | 7.6986 | .12582 | 24.294 | 9.8090 | .00324 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.62341** | **.12068** | **4.3699** | **.05268** | **.20602** | **-.00356** | **.00009** | **2.0884** | **.00742** |
| Stddev | .00196 | .00024 | .0027 | .00036 | .00088 | .00176 | .00028 | .0184 | .00015 |
| %RSD | .31430 | .20079 | .06062 | .68512 | .42731 | 49.483 | 326.93 | .87885 | 2.0046 |
| #1 | .62480 | .12051 | 4.3680 | .05293 | .20540 | -.00231 | .00029 | 2.0755 | .00731 |
| #2 | .62203 | .12085 | 4.3717 | .05242 | .20665 | -.00480 | -.00011 | 2.1014 | .00752 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02663** | **.08591** | **.81193** | **-.00925** | W **-.09482** | **.12611** | **.38996** | **.02945** |
| Stddev | .00005 | .00350 | .00259 | .00125 | .01665 | .00081 | .00043 | .00005 |
| %RSD | .19278 | 4.0760 | .31897 | 13.464 | 17.563 | .64463 | .10936 | .17221 |
| #1 | .02659 | .08343 | .81010 | -.00837 | -.10659 | .12553 | .38966 | .02948 |
| #2 | .02666 | .08838 | .81377 | -.01013 | -.08304 | .12668 | .39027 | .02941 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7984.7** | **107160.** | **6840.9** |
| Stddev | 6.1 | 422. | 52.8 |
| %RSD | .07597 | .39371 | .77154 |
| #1 | 7989.0 | 107460. | 6803.6 |
| #2 | 7980.4 | 106860. | 6878.2 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 15:46:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00166** | **49.779** | **-.00084** | **.00332** | **.00089** | **-.00005** | **.98517** | **.00267** | **-.00073** | **.00176** | **-.00036** | **-.00016** | **49.286** |
| Stddev | .00132 | .323 | .00075 | .00006 | .00028 | .00012 | .00017 | .00171 | .00002 | .00014 | .00011 | .00020 | .256 |
| %RSD | 79.493 | .64954 | 88.949 | 1.9290 | 31.054 | 239.04 | .01724 | 63.877 | 2.6017 | 7.8923 | 30.635 | 124.21 | .51925 |
| #1 | .00073 | 50.008 | -.00137 | .00336 | .00069 | -.00014 | .98529 | .00388 | -.00074 | .00166 | -.00044 | -.00002 | 49.467 |
| #2 | .00259 | 49.551 | -.00031 | .00327 | .00108 | .00004 | .98505 | .00146 | -.00072 | .00186 | -.00028 | -.00031 | 49.105 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04205** | **-.00107** | **-.00281** | **-.00029** | **-.00184** | **247.36** | **.00106** | **.00369** | **.00055** | **4.8947** | **.00019** | **.00069** | **.00274** |
| Stddev | .03837 | .00148 | .00099 | .00003 | .00030 | 1.30 | .00001 | .00248 | .00225 | .0004 | .00118 | .00508 | .02052 |
| %RSD | 91.257 | 139.00 | 35.034 | 9.8645 | 16.280 | .52392 | .56776 | 67.166 | 410.86 | .00745 | 636.73 | 732.82 | 748.19 |
| #1 | .01491 | -.00212 | -.00212 | -.00031 | -.00205 | 248.28 | .00106 | .00194 | -.00104 | 4.8944 | -.00065 | -.00290 | .01725 |
| #2 | .06918 | -.00002 | -.00351 | -.00027 | -.00162 | 246.45 | .00106 | .00545 | .00214 | 4.8949 | .00102 | .00429 | -.01177 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **.00021** | **5.1183** | **.00299** | **-.00075** | **9.9549** | **-.00070** | **.00337** | **-.03921** |
| Stddev | .00054 | .00006 | .0104 | .00034 | .00114 | .0140 | .00019 | .00011 | .00385 |
| %RSD | 53.980 | 29.126 | .20362 | 11.224 | 151.88 | .14058 | 26.826 | 3.1938 | 9.8104 |
| #1 | .00139 | .00025 | 5.1109 | .00275 | .00006 | 9.9450 | -.00057 | .00329 | -.03649 |
| #2 | .00062 | .00017 | 5.1256 | .00322 | -.00156 | 9.9648 | -.00083 | .00344 | -.04193 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6568.6** | **87772.** | **5607.9** |
| Stddev | 5.6 | 231. | 57.3 |
| %RSD | .08458 | .26335 | 1.0214 |
| #1 | 6564.7 | 87608. | 5567.4 |
| #2 | 6572.5 | 87935. | 5648.4 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 15:49:15 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52185** | **.49260** | **.97344** | **.48325** | **.50028** | **.47229** | **.00130** | **5.0220** | **.50705** | **.51343** | **.49362** | **.48939** | **2.4719** |
| Stddev | .00309 | .00020 | .00019 | .00034 | .00371 | .00290 | .00022 | .0077 | .00045 | .00017 | .00059 | .00047 | .0010 |
| %RSD | .59180 | .04133 | .01929 | .06940 | .74132 | .61379 | 17.127 | .15349 | .08941 | .03402 | .11891 | .09656 | .04231 |
| #1 | .52403 | .49246 | .97331 | .48349 | .49765 | .47024 | .00146 | 5.0165 | .50737 | .51355 | .49320 | .48972 | 2.4712 |
| #2 | .51966 | .49275 | .97357 | .48302 | .50290 | .47434 | .00114 | 5.0274 | .50673 | .51330 | .49403 | .48905 | 2.4726 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.140** | **1.0093** | **19.898** | **.50737** | **.49047** | **4.9179** | **.50302** | **.94661** | **1.0264** | **-.00195** | **1.0116** | **.96345** | **4.8971** |
| Stddev | .224 | .0068 | .050 | .00141 | .00196 | .0229 | .00234 | .00190 | .0024 | .00262 | .0011 | .00092 | .0268 |
| %RSD | .44705 | .66967 | .25162 | .27719 | .40040 | .46481 | .46464 | .20101 | .23428 | 134.14 | .11195 | .09584 | .54732 |
| #1 | 49.982 | 1.0045 | 19.933 | .50837 | .48908 | 4.9018 | .50137 | .94527 | 1.0247 | -.00010 | 1.0124 | .96411 | 4.8781 |
| #2 | 50.299 | 1.0141 | 19.863 | .50638 | .49186 | 4.9341 | .50467 | .94796 | 1.0281 | -.00381 | 1.0108 | .96280 | 4.9161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98921** | **.47798** | **.00143** | **.51062** | **1.0164** | **-.02231** | **.48827** | **.50652** | **.50167** |
| Stddev | .00181 | .00097 | .00106 | .00152 | .0027 | .00298 | .00055 | .00256 | .00310 |
| %RSD | .18275 | .20373 | 73.654 | .29757 | .26075 | 13.361 | .11185 | .50628 | .61750 |
| #1 | .98793 | .47730 | .00069 | .51169 | 1.0145 | -.02020 | .48866 | .50833 | .49948 |
| #2 | .99049 | .47867 | .00218 | .50955 | 1.0182 | -.02441 | .48788 | .50470 | .50386 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6717.1** | **88664.** | **5658.4** |
| Stddev | 2.3 | 176. | .0 |
| %RSD | .03446 | .19878 | .00075 |
| #1 | 6718.7 | 88540. | 5658.4 |
| #2 | 6715.4 | 88789. | 5658.3 |

Sample Name: CCB Acquired: 5/21/2013 15:51:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **.00065** | **.00268** | W **.00168** | **.00016** | **.00000** | **.00073** | **-.00364** | **.00011** | **.00006** | **-.00001** |
| Stddev | .00020 | .00006 | .00382 | .00025 | .00007 | .00003 | .00036 | .00218 | .00003 | .00008 | .00002 |
| %RSD | 26.391 | 8.9186 | 142.29 | 14.594 | 41.426 | 1302.2 | 48.980 | 59.829 | 25.578 | 143.97 | 225.44 |
| #1 | .00063 | .00069 | .00538 | .00186 | .00011 | .00002 | .00048 | -.00210 | .00009 | -.00000 | .00001 |
| #2 | .00092 | .00061 | -.00002 | .00151 | .00020 | -.00002 | .00098 | -.00518 | .00012 | .00011 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00094** | **.00016** | **.08263** | **-.00060** | **.00156** | **.00016** | **.00033** | **-.03325** | **-.00010** | **.00082** | **-.00115** |
| Stddev | .00028 | .00131 | .00190 | .00003 | .00043 | .00003 | .00005 | .00872 | .00027 | .00157 | .00150 |
| %RSD | 30.104 | 834.67 | 2.2945 | 5.5710 | 27.728 | 21.078 | 15.046 | 26.240 | 282.50 | 191.17 | 130.57 |
| #1 | -.00114 | .00109 | .08129 | -.00063 | .00125 | .00018 | .00030 | -.03941 | -.00029 | .00193 | -.00009 |
| #2 | -.00074 | -.00077 | .08397 | -.00058 | .00186 | .00014 | .00037 | -.02708 | .00010 | -.00029 | -.00221 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | W **.00517** | **.00138** | **.00447** | **-.00032** | **.00001** | **-.00160** | **-.00016** | **.00053** | **-.00151** | **-.00044** |
| Stddev | .00133 | .00136 | .00005 | .02147 | .00013 | .00007 | .00196 | .00021 | .00031 | .03490 | .00010 |
| %RSD | 213.74 | 26.394 | 3.3474 | 480.29 | 42.299 | 466.94 | 122.45 | 133.22 | 59.452 | 2308.6 | 23.716 |
| #1 | -.00032 | .00420 | .00134 | .01965 | -.00041 | -.00003 | -.00021 | -.00031 | .00031 | -.02619 | -.00037 |
| #2 | .00156 | .00613 | .00141 | -.01071 | -.00022 | .00006 | -.00298 | -.00001 | .00075 | .02317 | -.00052 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00264** | **.00070** |
| Stddev | .00040 | .00043 |
| %RSD | 15.245 | 61.756 |
| #1 | .00293 | .00100 |
| #2 | .00236 | .00039 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6698.9** | **90526.** | **5633.0** |
| Stddev | .3 | 343. | 13.9 |
| %RSD | .00375 | .37891 | .24619 |
| #1 | 6698.7 | 90284. | 5642.8 |
| #2 | 6699.1 | 90769. | 5623.2 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 15:53:59 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01131** | **.10011** | **.01647** | **.09761** | **.01046** | **.00086** | **.10876** | **.20432** | **.00524** | **.01042** | **.00998** |
| Stddev | .00011 | .00078 | .00112 | .00059 | .00024 | .00007 | .00188 | .00238 | .00010 | .00000 | .00006 |
| %RSD | 1.0107 | .78035 | 6.8068 | .60558 | 2.2691 | 8.1813 | 1.7266 | 1.1663 | 1.8449 | .04768 | .58977 |
| #1 | .01139 | .10067 | .01568 | .09803 | .01029 | .00081 | .11009 | .20601 | .00531 | .01041 | .01002 |
| #2 | .01123 | .09956 | .01726 | .09719 | .01062 | .00091 | .10744 | .20264 | .00517 | .01042 | .00994 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01378** | **.10200** | **3.0777** | W **.01261** | **.20231** | **.01035** | **.02019** | **.98062** | **.04100** | **2.8354** | W **.01123** |
| Stddev | .00000 | .00103 | .0145 | .00020 | .00307 | .00017 | .00017 | .00249 | .00019 | .0152 | .00046 |
| %RSD | .01427 | 1.0123 | .47119 | 1.5877 | 1.5151 | 1.6844 | .83301 | .25385 | .46731 | .53429 | 4.1211 |
| #1 | .01379 | .10273 | 3.0879 | .01275 | .20015 | .01022 | .02031 | .98238 | .04086 | 2.8461 | .01090 |
| #2 | .01378 | .10127 | 3.0674 | .01247 | .20448 | .01047 | .02007 | .97886 | .04113 | 2.8246 | .01156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | .01000 | | | | | | | .00900 |
| Range | | | | 20.000% | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | W **.01223** | **.01359** | **.51421** | **.10205** | **.00985** | **.01505** | **.01031** | **.01566** | **.05173** | **.00930** |
| Stddev | .00203 | .00004 | .00122 | .00717 | .00183 | .00008 | .00077 | .00010 | .00066 | .02171 | .00009 |
| %RSD | 375.90 | .33543 | 9.0114 | 1.3940 | 1.7932 | .77573 | 5.1343 | .99720 | 4.2452 | 41.967 | .97648 |
| #1 | .00198 | .01220 | .01445 | .51927 | .10335 | .00979 | .01560 | .01023 | .01519 | .03638 | .00924 |
| #2 | -.00090 | .01226 | .01272 | .50914 | .10076 | .00990 | .01450 | .01038 | .01613 | .06708 | .00936 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | 20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02280** | **.01605** |
| Stddev | .00003 | .00254 |
| %RSD | .11938 | 15.831 |
| #1 | .02279 | .01785 |
| #2 | .02282 | .01426 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6670.4** | **90801.** | **5676.4** |
| Stddev | 11.7 | 416. | 47.0 |
| %RSD | .17552 | .45816 | .82869 |
| #1 | 6662.1 | 91095. | 5643.2 |
| #2 | 6678.7 | 90507. | 5709.7 |

Sample Name: 280-42046-A-3-A  Acquired: 5/21/2013 15:56:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00157** | **76.965** | **.03679** | **.03005** | **.30298** | **.00353** | **-.00196** | **11.997** | **.00108** |
| Stddev | .00034 | .178 | .00359 | .00046 | .00115 | .00004 | .00008 | .045 | .00017 |
| %RSD | 21.427 | .23117 | 9.7642 | 1.5302 | .38045 | 1.1468 | 4.1088 | .37118 | 15.822 |
| #1 | .00133 | 77.090 | .03933 | .03038 | .30380 | .00350 | -.00190 | 12.028 | .00096 |
| #2 | .00181 | 76.839 | .03425 | .02973 | .30217 | .00356 | -.00202 | 11.965 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05499** | **.08914** | **.29562** | **172.82** | **11.775** | **.13504** | **30.169** | **7.7069** | **.00179** |
| Stddev | .00007 | .00022 | .00018 | 1.10 | .065 | .00168 | .020 | .0913 | .00001 |
| %RSD | .13139 | .24249 | .06107 | .63839 | .55588 | 1.2403 | .06474 | 1.1848 | .64691 |
| #1 | .05494 | .08930 | .29550 | 173.60 | 11.821 | .13623 | 30.182 | 7.6423 | .00180 |
| #2 | .05504 | .08899 | .29575 | 172.04 | 11.728 | .13386 | 30.155 | 7.7715 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48813** | **.12464** | **3.9282** | **.04058** | **.11754** | **-.00281** | **.00006** | **2.1171** | **.00619** |
| Stddev | .01417 | .00021 | .0150 | .00144 | .00062 | .00011 | .00293 | .0196 | .00004 |
| %RSD | 2.9022 | .17093 | .38323 | 3.5471 | .53091 | 3.8231 | 5034.2 | .92358 | .70253 |
| #1 | .49815 | .12479 | 3.9389 | .03956 | .11798 | -.00274 | -.00201 | 2.1309 | .00622 |
| #2 | .47812 | .12449 | 3.9176 | .04159 | .11710 | -.00289 | .00213 | 2.1032 | .00616 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04330** | **.04694** | **.43613** | **-.00705** | **-.03657** | **.12871** | **.43352** | **.04946** |
| Stddev | .00016 | .00038 | .00009 | .00002 | .01249 | .00045 | .00135 | .00387 |
| %RSD | .37524 | .80706 | .02177 | .24540 | 34.143 | .34692 | .31098 | 7.8242 |
| #1 | .04341 | .04721 | .43620 | -.00706 | -.04540 | .12839 | .43448 | .04673 |
| #2 | .04318 | .04667 | .43606 | -.00703 | -.02774 | .12903 | .43257 | .05220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7552.4** | **101370.** | **6473.9** |
| Stddev | 18.6 | 204. | 64.1 |
| %RSD | .24685 | .20158 | .99003 |
| #1 | 7539.2 | 101230. | 6428.6 |
| #2 | 7565.5 | 101520. | 6519.2 |

Sample Name: 280-42046-A-4-A  Acquired: 5/21/2013 15:58:52  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00208** | **104.28** | **.04556** | **.02881** | **.44486** | **.00453** | **-.00096** | **14.425** | **.00450** |
| Stddev | .00003 | .30 | .00245 | .00023 | .00186 | .00002 | .00093 | .047 | .00011 |
| %RSD | 1.5691 | .29234 | 5.3726 | .80738 | .41816 | .34091 | 97.521 | .32873 | 2.5508 |
| #1 | .00210 | 104.49 | .04729 | .02864 | .44618 | .00454 | -.00162 | 14.458 | .00458 |
| #2 | .00205 | 104.06 | .04383 | .02897 | .44355 | .00452 | -.00030 | 14.391 | .00442 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06948** | **.14202** | **.23799** | **221.69** | **11.421** | **.17041** | **34.606** | W **10.807** | **.00530** |
| Stddev | .00020 | .00050 | .00019 | .71 | .106 | .00109 | .015 | .182 | .00035 |
| %RSD | .29109 | .35072 | .07872 | .32219 | .92386 | .64010 | .04355 | 1.6874 | 6.6407 |
| #1 | .06934 | .14167 | .23812 | 222.20 | 11.496 | .16964 | 34.617 | 10.678 | .00505 |
| #2 | .06962 | .14237 | .23786 | 221.19 | 11.347 | .17118 | 34.596 | 10.936 | .00555 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47549** | **.16280** | **4.8359** | **.21252** | **.76796** | **-.00208** | **.00479** | **2.3933** | **.00836** |
| Stddev | .00340 | .00051 | .0135 | .00103 | .00464 | .00285 | .00269 | .0621 | .00046 |
| %RSD | .71472 | .31387 | .27859 | .48467 | .60438 | 137.06 | 56.197 | 2.5939 | 5.5061 |
| #1 | .47789 | .16244 | 4.8264 | .21179 | .76468 | -.00006 | .00670 | 2.3494 | .00804 |
| #2 | .47309 | .16316 | 4.8454 | .21325 | .77125 | -.00409 | .00289 | 2.4372 | .00869 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06119** | **.05359** | **.57408** | **-.00815** | **-.04343** | **.18692** | **.80192** | **.02657** |
| Stddev | .00009 | .00344 | .00113 | .00047 | .02189 | .00085 | .00009 | .00085 |
| %RSD | .15107 | 6.4221 | .19643 | 5.7076 | 50.410 | .45496 | .01117 | 3.1983 |
| #1 | .06125 | .05116 | .57329 | -.00782 | -.02795 | .18752 | .80186 | .02717 |
| #2 | .06112 | .05603 | .57488 | -.00848 | -.05891 | .18632 | .80198 | .02596 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7488.9** | **100060.** | **6492.0** |
| Stddev | 13.0 | 63. | 33.9 |
| %RSD | .17308 | .06281 | .52262 |
| #1 | 7479.8 | 100010. | 6468.0 |
| #2 | 7498.1 | 100100. | 6516.0 |

Sample Name: 280-42046-A-5-A Acquired: 5/21/2013 16:01:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: q4 Custom ID2: Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00108** | **94.316** | **.03261** | **.02493** | **.21964** | **.00347** | **-.00156** | **10.253** | **.00135** |
| Stddev | .00031 | .063 | .00379 | .00013 | .00037 | .00003 | .00271 | .024 | .00022 |
| %RSD | 28.926 | .06657 | 11.615 | .50269 | .16755 | .72860 | 174.35 | .23191 | 16.230 |
| #1 | .00130 | 94.361 | .02993 | .02502 | .21990 | .00346 | -.00347 | 10.270 | .00150 |
| #2 | .00086 | 94.272 | .03529 | .02485 | .21938 | .00349 | .00036 | 10.236 | .00119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06138** | **.10860** | **.27000** | **167.79** | **9.3964** | **.14643** | **41.526** | **6.2501** | **.00410** |
| Stddev | .00041 | .00014 | .00133 | .85 | .0020 | .00000 | .044 | .0382 | .00016 |
| %RSD | .67121 | .12564 | .49440 | .50379 | .02124 | .00018 | .10522 | .61045 | 4.0032 |
| #1 | .06167 | .10869 | .27095 | 168.39 | 9.3950 | .14643 | 41.557 | 6.2231 | .00422 |
| #2 | .06109 | .10850 | .26906 | 167.19 | 9.3978 | .14643 | 41.495 | 6.2771 | .00399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61928** | **.14253** | **3.3122** | **.04507** | **.16503** | **-.00138** | **-.00258** | **1.7482** | **.00835** |
| Stddev | .01051 | .00027 | .0140 | .00190 | .00063 | .00264 | .00159 | .0245 | .00020 |
| %RSD | 1.6967 | .19285 | .42312 | 4.2263 | .38292 | 191.65 | 61.472 | 1.4029 | 2.3938 |
| #1 | .62671 | .14272 | 3.3221 | .04641 | .16458 | .00049 | -.00370 | 1.7309 | .00849 |
| #2 | .61185 | .14233 | 3.3023 | .04372 | .16547 | -.00324 | -.00146 | 1.7655 | .00820 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02805** | **.04847** | **1.8737** | **-.00504** | W **-.06911** | **.13985** | **.45617** | **.04257** |
| Stddev | .00005 | .00253 | .0022 | .00024 | .00511 | .00014 | .00097 | .00000 |
| %RSD | .18054 | 5.2231 | .12029 | 4.7201 | 7.3994 | .10066 | .21276 | .00207 |
| #1 | .02802 | .04668 | 1.8721 | -.00520 | -.07273 | .13995 | .45686 | .04257 |
| #2 | .02809 | .05027 | 1.8753 | -.00487 | -.06550 | .13975 | .45548 | .04257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7355.1** | **98600.** | **6310.6** |
| Stddev | 3.2 | 75. | 20.5 |
| %RSD | .04319 | .07594 | .32565 |
| #1 | 7357.3 | 98653. | 6296.0 |
| #2 | 7352.8 | 98548. | 6325.1 |

Sample Name: 280-42046-A-6-A  Acquired: 5/21/2013 16:03:44  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **71.167** | **.09382** | **.02324** | **.27591** | **.00283** | **.00018** | **11.888** | **.00091** |
| Stddev | .00018 | .039 | .00155 | .00071 | .00038 | .00000 | .00159 | .009 | .00006 |
| %RSD | 13.061 | .05515 | 1.6505 | 3.0556 | .13701 | .16381 | 881.78 | .07183 | 6.6729 |
| #1 | .00127 | 71.195 | .09272 | .02374 | .27618 | .00283 | -.00094 | 11.894 | .00095 |
| #2 | .00152 | 71.139 | .09491 | .02274 | .27564 | .00282 | .00130 | 11.882 | .00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06004** | **.10082** | **.26413** | **165.61** | **10.282** | **.12143** | **31.893** | **7.0347** | **.00504** |
| Stddev | .00031 | .00023 | .00104 | .06 | .038 | .00040 | .030 | .0280 | .00002 |
| %RSD | .50987 | .22400 | .39268 | .03594 | .36621 | .32671 | .09402 | .39817 | .42361 |
| #1 | .06025 | .10097 | .26487 | 165.65 | 10.309 | .12171 | 31.914 | 7.0546 | .00505 |
| #2 | .05982 | .10066 | .26340 | 165.57 | 10.255 | .12115 | 31.872 | 7.0149 | .00502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47126** | **.12628** | **3.5872** | **.08590** | **1.5192** | **-.00189** | **.00191** | **1.8723** | **.00837** |
| Stddev | .00960 | .00117 | .0176 | .00029 | .0053 | .00030 | .00049 | .0056 | .00101 |
| %RSD | 2.0366 | .92679 | .49035 | .33517 | .34702 | 16.111 | 25.397 | .29696 | 12.062 |
| #1 | .47805 | .12711 | 3.5997 | .08570 | 1.5229 | -.00167 | .00157 | 1.8762 | .00765 |
| #2 | .46447 | .12545 | 3.5748 | .08611 | 1.5155 | -.00210 | .00226 | 1.8683 | .00908 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04451** | **.05391** | **1.8675** | **-.00514** | **-.04772** | **.13122** | **.48357** | **.04393** |
| Stddev | .00016 | .00201 | .0015 | .00052 | .00535 | .00060 | .00116 | .00192 |
| %RSD | .35043 | 3.7372 | .08308 | 10.151 | 11.212 | .45487 | .24012 | 4.3652 |
| #1 | .04462 | .05533 | 1.8686 | -.00551 | -.05150 | .13164 | .48275 | .04258 |
| #2 | .04440 | .05248 | 1.8664 | -.00477 | -.04394 | .13080 | .48440 | .04529 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7371.7** | **98292.** | **6209.9** |
| Stddev | .5 | 25. | 23.7 |
| %RSD | .00700 | .02500 | .38156 |
| #1 | 7372.0 | 98274. | 6193.2 |
| #2 | 7371.3 | 98309. | 6226.7 |

Sample Name: 280-42046-A-7-A  Acquired: 5/21/2013 16:06:09  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **66.844** | **.03175** | **.03184** | **.29822** | **.00257** | **-.00036** | **49.410** | **.00528** |
| Stddev | .00001 | .467 | .00141 | .00000 | .00159 | .00006 | .00007 | .329 | .00001 |
| %RSD | 1.4384 | .69922 | 4.4522 | .00550 | .53319 | 2.2540 | 19.127 | .66678 | .21116 |
| #1 | .00103 | 67.175 | .03275 | .03184 | .29934 | .00261 | -.00041 | 49.643 | .00529 |
| #2 | .00105 | 66.514 | .03075 | .03184 | .29709 | .00252 | -.00032 | 49.177 | .00527 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04005** | **.09743** | **.17289** | **109.71** | **9.5390** | **.09221** | **18.759** | **3.7406** | **.00237** |
| Stddev | .00007 | .00038 | .00011 | .67 | .1038 | .00003 | .026 | .0044 | .00024 |
| %RSD | .17454 | .38563 | .06566 | .60786 | 1.0884 | .03237 | .13924 | .11677 | 10.324 |
| #1 | .04000 | .09717 | .17281 | 110.18 | 9.6124 | .09219 | 18.740 | 3.7437 | .00220 |
| #2 | .04010 | .09770 | .17297 | 109.24 | 9.4655 | .09223 | 18.777 | 3.7375 | .00255 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43028** | **.09776** | **4.1846** | **.37056** | **1.6647** | **-.00119** | **.00012** | **2.1995** | **.00849** |
| Stddev | .00910 | .00006 | .0087 | .00019 | .0000 | .00072 | .00275 | .0604 | .00031 |
| %RSD | 2.1147 | .06032 | .20891 | .05032 | .00237 | 60.202 | 2320.7 | 2.7481 | 3.5930 |
| #1 | .42384 | .09772 | 4.1784 | .37070 | 1.6647 | -.00170 | .00207 | 2.2422 | .00871 |
| #2 | .43671 | .09780 | 4.1908 | .37043 | 1.6647 | -.00068 | -.00183 | 2.1567 | .00828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10133** | **.02973** | **.44786** | **-.00283** | W **-.05574** | **.12741** | **.52265** | **.01403** |
| Stddev | .00135 | .00010 | .00163 | .00039 | .03418 | .00075 | .00269 | .00135 |
| %RSD | 1.3356 | .32177 | .36410 | 13.590 | 61.329 | .58661 | .51522 | 9.5889 |
| #1 | .10229 | .02966 | .44671 | -.00256 | -.03157 | .12689 | .52074 | .01498 |
| #2 | .10037 | .02979 | .44902 | -.00311 | -.07991 | .12794 | .52455 | .01308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7059.2** | **93042.** | **6087.8** |
| Stddev | 3.0 | 114. | 24.5 |
| %RSD | .04284 | .12221 | .40235 |
| #1 | 7057.0 | 93122. | 6070.4 |
| #2 | 7061.3 | 92962. | 6105.1 |

Sample Name: 280-42046-A-8-A  Acquired: 5/21/2013 16:08:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00093** | **97.744** | **.04765** | **.02124** | **.37432** | **.00424** | **.00250** | **18.711** | **.00352** |
| Stddev | .00066 | .561 | .00112 | .00037 | .00219 | .00001 | .00197 | .094 | .00016 |
| %RSD | 71.253 | .57363 | 2.3578 | 1.7364 | .58562 | .26222 | 78.700 | .50133 | 4.4411 |
| #1 | .00140 | 97.348 | .04686 | .02098 | .37277 | .00423 | .00390 | 18.645 | .00363 |
| #2 | .00046 | 98.141 | .04844 | .02151 | .37587 | .00425 | .00111 | 18.778 | .00341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07120** | **.15022** | **.35703** | **204.23** | **9.2682** | **.16498** | **34.125** | **9.2741** | **.00186** |
| Stddev | .00020 | .00005 | .00042 | 1.53 | .0482 | .00023 | .091 | .0003 | .00003 |
| %RSD | .28535 | .03546 | .11856 | .74885 | .52027 | .13776 | .26732 | .00328 | 1.5219 |
| #1 | .07134 | .15018 | .35733 | 203.15 | 9.2341 | .16482 | 34.190 | 9.2739 | .00184 |
| #2 | .07106 | .15026 | .35673 | 205.31 | 9.3023 | .16514 | 34.061 | 9.2743 | .00188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44425** | **.15532** | **4.3552** | **.36407** | **.52079** | **-.00147** | **.00349** | **2.6991** | **.00802** |
| Stddev | .00414 | .00036 | .0044 | .00133 | .00130 | .00157 | .00046 | .0333 | .00008 |
| %RSD | .93079 | .23092 | .10015 | .36522 | .24984 | 106.29 | 13.210 | 1.2339 | 1.0102 |
| #1 | .44133 | .15506 | 4.3582 | .36313 | .52171 | -.00258 | .00381 | 2.6756 | .00797 |
| #2 | .44718 | .15557 | 4.3521 | .36501 | .51987 | -.00037 | .00316 | 2.7227 | .00808 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04673** | **.05067** | **.47630** | **-.00691** | W **-.05626** | **.16549** | **.74223** | **.02560** |
| Stddev | .00000 | .00350 | .00040 | .00095 | .00801 | .00033 | .00127 | .00022 |
| %RSD | .00316 | 6.9165 | .08439 | 13.821 | 14.245 | .19816 | .17063 | .85089 |
| #1 | .04673 | .05315 | .47659 | -.00623 | -.06192 | .16572 | .74313 | .02545 |
| #2 | .04673 | .04819 | .47602 | -.00758 | -.05059 | .16526 | .74134 | .02575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7764.9** | **102440.** | **6557.2** |
| Stddev | 12.6 | 211. | 64.6 |
| %RSD | .16230 | .20572 | .98443 |
| #1 | 7756.0 | 102290. | 6602.8 |
| #2 | 7773.8 | 102590. | 6511.5 |

Sample Name: 280-42046-A-9-A  Acquired: 5/21/2013 16:10:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **81.963** | **.03781** | **.02020** | **.31838** | **.00367** | **.00145** | **19.427** | **.00174** |
| Stddev | .00056 | .307 | .00176 | .00003 | .00057 | .00005 | .00210 | .028 | .00006 |
| %RSD | 42.711 | .37425 | 4.6451 | .17145 | .17783 | 1.4302 | 144.74 | .14228 | 3.3154 |
| #1 | .00170 | 81.746 | .03657 | .02018 | .31798 | .00364 | -.00003 | 19.408 | .00178 |
| #2 | .00091 | 82.179 | .03905 | .02023 | .31878 | .00371 | .00294 | 19.447 | .00170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05976** | **.09757** | **.29817** | **197.12** | **9.0509** | **.15888** | **38.146** | W **11.459** | **.00264** |
| Stddev | .00010 | .00018 | .00049 | .54 | .0479 | .00084 | .134 | .051 | .00011 |
| %RSD | .17448 | .18109 | .16400 | .27263 | .52946 | .53080 | .35059 | .44630 | 4.0379 |
| #1 | .05983 | .09770 | .29852 | 196.74 | 9.0170 | .15948 | 38.241 | 11.423 | .00272 |
| #2 | .05968 | .09745 | .29782 | 197.50 | 9.0848 | .15829 | 38.052 | 11.495 | .00257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40033** | **.13968** | **5.8408** | **.05677** | **.12599** | **-.00322** | **.00099** | **1.9497** | **.00536** |
| Stddev | .01040 | .00011 | .0019 | .00009 | .00043 | .00031 | .00390 | .0033 | .00038 |
| %RSD | 2.5978 | .07827 | .03179 | .15934 | .34388 | 9.7394 | 393.51 | .16780 | 7.0936 |
| #1 | .40769 | .13961 | 5.8395 | .05683 | .12569 | -.00300 | .00375 | 1.9474 | .00509 |
| #2 | .39298 | .13976 | 5.8421 | .05671 | .12630 | -.00345 | -.00177 | 1.9520 | .00563 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05894** | **.05008** | **.34636** | **-.00796** | **-.04934** | **.12638** | **.51011** | **.04810** |
| Stddev | .00053 | .00214 | .00064 | .00037 | .01718 | .00022 | .00263 | .00117 |
| %RSD | .89975 | 4.2684 | .18335 | 4.5903 | 34.817 | .17291 | .51576 | 2.4306 |
| #1 | .05932 | .05159 | .34592 | -.00822 | -.06148 | .12654 | .51197 | .04893 |
| #2 | .05857 | .04857 | .34681 | -.00770 | -.03719 | .12623 | .50825 | .04728 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7671.1** | **102380.** | **6469.6** |
| Stddev | 12.3 | 542. | 24.7 |
| %RSD | .15996 | .52977 | .38244 |
| #1 | 7679.7 | 102000. | 6487.1 |
| #2 | 7662.4 | 102770. | 6452.1 |

Sample Name: 280-42046-A-10-A  Acquired: 5/21/2013 16:13:23  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: q4  Custom ID2:  Custom ID3:
Comment: 173668 6010c

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **68.896** | **.04055** | **.02245** | **.28006** | **.00314** | **-.00027** | **13.447** | **.00140** |
| Stddev | .00023 | .297 | .00188 | .00032 | .00120 | .00003 | .00043 | .033 | .00002 |
| %RSD | 21.778 | .43066 | 4.6484 | 1.4112 | .42685 | .99804 | 158.93 | .24266 | 1.6798 |
| #1 | .00119 | 68.686 | .03922 | .02223 | .27921 | .00312 | -.00058 | 13.424 | .00142 |
| #2 | .00088 | 69.106 | .04188 | .02268 | .28090 | .00316 | .00003 | 13.470 | .00139 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05602** | **.10212** | **.27825** | **168.71** | **9.3912** | **.12208** | **28.500** | **8.6372** | **.00930** |
| Stddev | .00006 | .00010 | .00123 | .68 | .0143 | .00064 | .010 | .0893 | .00002 |
| %RSD | .09858 | .10023 | .44282 | .40081 | .15225 | .52390 | .03549 | 1.0335 | .24521 |
| #1 | .05598 | .10204 | .27912 | 168.23 | 9.4013 | .12163 | 28.493 | 8.5741 | .00928 |
| #2 | .05606 | .10219 | .27738 | 169.19 | 9.3811 | .12253 | 28.507 | 8.7003 | .00931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50666** | **.12493** | **4.4081** | **.06807** | **.15132** | **-.00360** | **.00401** | **2.8028** | **.00639** |
| Stddev | .00410 | .00019 | .0080 | .00197 | .00221 | .00173 | .00069 | .0081 | .00076 |
| %RSD | .80966 | .15153 | .18165 | 2.8908 | 1.4601 | 47.966 | 17.109 | .28881 | 11.860 |
| #1 | .50956 | .12480 | 4.4025 | .06668 | .14975 | -.00483 | .00450 | 2.8085 | .00585 |
| #2 | .50376 | .12507 | 4.4138 | .06947 | .15288 | -.00238 | .00353 | 2.7970 | .00692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05023** | **.04794** | **.36648** | **-.00665** | W **-.06688** | **.11790** | **.42659** | **.04755** |
| Stddev | .00002 | .00144 | .00121 | .00115 | .02120 | .00054 | .00083 | .00325 |
| %RSD | .03944 | 2.9960 | .33063 | 17.328 | 31.695 | .45455 | .19383 | 6.8240 |
| #1 | .05024 | .04896 | .36562 | -.00746 | -.08187 | .11752 | .42601 | .04526 |
| #2 | .05022 | .04693 | .36733 | -.00583 | -.05189 | .11828 | .42718 | .04985 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7478.8** | **99499.** | **6362.6** |
| Stddev | 14.4 | 133. | 19.4 |
| %RSD | .19321 | .13403 | .30562 |
| #1 | 7468.6 | 99405. | 6376.3 |
| #2 | 7489.1 | 99593. | 6348.8 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 16:15:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00156** | **50.157** | **-.00067** | **.00227** | **.00044** | **-.00005** | **.99234** | **.00098** | **-.00065** | **.00172** | **-.00014** | **-.00063** | **49.903** |
| Stddev | .00009 | .225 | .00035 | .00000 | .00012 | .00001 | .00377 | .00486 | .00013 | .00035 | .00015 | .00040 | .043 |
| %RSD | 6.0561 | .44861 | 51.499 | .08790 | 27.708 | 11.127 | .38028 | 493.72 | 20.027 | 20.597 | 104.85 | 63.341 | .08654 |
| #1 | .00163 | 49.998 | -.00043 | .00227 | .00035 | -.00005 | .99501 | -.00245 | -.00075 | .00197 | -.00004 | -.00035 | 49.872 |
| #2 | .00149 | 50.316 | -.00092 | .00227 | .00052 | -.00004 | .98968 | .00442 | -.00056 | .00147 | -.00025 | -.00091 | 49.933 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02365** | **.00034** | **-.00467** | **-.00038** | **-.00196** | **250.02** | **.00082** | **.00496** | **.00065** | **4.9443** | **.00055** | **.00372** | **.00223** |
| Stddev | .00179 | .00319 | .00066 | .00011 | .00011 | .43 | .00001 | .00074 | .00075 | .0055 | .00075 | .00133 | .00787 |
| %RSD | 7.5624 | 934.02 | 14.045 | 29.959 | 5.8752 | .17351 | .64482 | 14.924 | 116.39 | .11176 | 136.87 | 35.927 | 352.38 |
| #1 | -.02491 | -.00191 | -.00513 | -.00030 | -.00204 | 249.71 | .00081 | .00444 | .00118 | 4.9404 | .00002 | .00466 | -.00333 |
| #2 | -.02238 | .00260 | -.00420 | -.00046 | -.00187 | 250.33 | .00082 | .00548 | .00011 | 4.9482 | .00108 | .00277 | .00780 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **.00020** | **5.1648** | **.00311** | **-.00266** | **10.014** | **-.00074** | **.00286** | **-.04169** |
| Stddev | .00057 | .00006 | .0079 | .00003 | .00206 | .017 | .00019 | .00032 | .00013 |
| %RSD | 39.753 | 29.677 | .15330 | .84831 | 77.516 | .16521 | 25.249 | 11.262 | .31964 |
| #1 | .00102 | .00015 | 5.1704 | .00313 | -.00411 | 10.026 | -.00061 | .00263 | -.04179 |
| #2 | .00182 | .00024 | 5.1592 | .00309 | -.00120 | 10.002 | -.00087 | .00309 | -.04160 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6461.5** | **86470.** | **5490.5** |
| Stddev | 2.6 | 675. | 5.3 |
| %RSD | .03993 | .78086 | .09670 |
| #1 | 6459.7 | 85992. | 5494.2 |
| #2 | 6463.3 | 86947. | 5486.7 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 16:18:10 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52483** | **.49428** | **.97797** | **.48208** | **.50613** | **.47693** | **.00202** | **5.0485** | **.50995** | **.51732** | **.49509** | **.49029** | **2.4805** |
| Stddev | .00047 | .00012 | .00339 | .00097 | .00034 | .00065 | .00305 | .0101 | .00054 | .00092 | .00081 | .00054 | .0109 |
| %RSD | .09047 | .02392 | .34661 | .20106 | .06654 | .13665 | 151.00 | .19947 | .10503 | .17864 | .16334 | .10982 | .43819 |
| #1 | .52450 | .49420 | .98037 | .48276 | .50637 | .47739 | .00417 | 5.0556 | .51033 | .51797 | .49566 | .48991 | 2.4881 |
| #2 | .52517 | .49436 | .97557 | .48139 | .50589 | .47647 | -.00014 | 5.0413 | .50957 | .51666 | .49452 | .49067 | 2.4728 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.655** | **1.0178** | **19.964** | **.50988** | **.49018** | **4.9620** | **.50526** | **.94933** | **1.0346** | **.00015** | **1.0174** | **.96387** | **4.9173** |
| Stddev | .236 | .0044 | .004 | .00067 | .00055 | .0055 | .00274 | .00352 | .0032 | .00319 | .0032 | .00119 | .0063 |
| %RSD | .46574 | .43154 | .01889 | .13089 | .11130 | .11106 | .54275 | .37088 | .30817 | 2070.0 | .31376 | .12338 | .12782 |
| #1 | 50.822 | 1.0209 | 19.961 | .51035 | .49056 | 4.9581 | .50720 | .95182 | 1.0368 | -.00210 | 1.0196 | .96471 | 4.9128 |
| #2 | 50.489 | 1.0147 | 19.967 | .50941 | .48979 | 4.9659 | .50332 | .94684 | 1.0323 | .00241 | 1.0151 | .96303 | 4.9217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98928** | **.48007** | **.00105** | **.51463** | **1.0173** | **-.00948** | **.49057** | **.51048** | **.50696** |
| Stddev | .00234 | .00261 | .00135 | .00015 | .0022 | .00425 | .00078 | .00211 | .00064 |
| %RSD | .23642 | .54406 | 128.59 | .02977 | .21397 | 44.781 | .15809 | .41307 | .12681 |
| #1 | .99093 | .48192 | .00010 | .51474 | 1.0158 | -.00648 | .49112 | .51197 | .50651 |
| #2 | .98762 | .47823 | .00200 | .51452 | 1.0189 | -.01249 | .49002 | .50899 | .50742 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6581.0** | **87862.** | **5449.8** |
| Stddev | 17.6 | 4. | 4.1 |
| %RSD | .26750 | .00481 | .07594 |
| #1 | 6568.6 | 87859. | 5452.7 |
| #2 | 6593.5 | 87865. | 5446.8 |

Sample Name: CCB Acquired: 5/21/2013 16:20:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **-.00006** | **.00012** | W **.00192** | **.00053** | **-.00002** | **-.00018** | **.00303** | **-.00008** | **-.00008** | **-.00005** |
| Stddev | .00007 | .00047 | .00103 | .00065 | .00013 | .00008 | .00033 | .00213 | .00018 | .00028 | .00009 |
| %RSD | 143.03 | 775.10 | 841.35 | 33.616 | 25.355 | 517.28 | 186.06 | 70.185 | 216.53 | 340.47 | 177.40 |
| #1 | -.00000 | -.00040 | -.00060 | .00238 | .00062 | -.00007 | .00006 | .00453 | .00004 | .00012 | -.00011 |
| #2 | .00010 | .00027 | .00085 | .00146 | .00043 | .00004 | -.00041 | .00153 | -.00021 | -.00028 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00075** | **.00013** | **.03155** | **.00012** | **.00322** | **.00014** | **.00037** | **-.05481** | **-.00029** | **.00248** | **-.00026** |
| Stddev | .00023 | .00118 | .01935 | .00066 | .00016 | .00000 | .00032 | .00133 | .00028 | .00107 | .00042 |
| %RSD | 30.056 | 898.35 | 61.327 | 535.79 | 4.9244 | 3.3353 | 85.876 | 2.4328 | 95.330 | 43.034 | 158.05 |
| #1 | -.00091 | .00097 | .04523 | .00059 | .00311 | .00013 | .00015 | -.05576 | -.00049 | .00173 | -.00056 |
| #2 | -.00059 | -.00070 | .01787 | -.00034 | .00333 | .00014 | .00060 | -.05387 | -.00010 | .00324 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | W **.00362** | **-.00023** | **.01443** | **.00001** | **-.00003** | **.00096** | **-.00013** | **.00037** | **-.00095** | **-.00006** |
| Stddev | .00336 | .00070 | .00277 | .00273 | .00015 | .00004 | .00094 | .00027 | .00022 | .00131 | .00001 |
| %RSD | 2324.8 | 19.259 | 1198.2 | 18.893 | 1087.6 | 114.21 | 98.329 | 206.24 | 58.658 | 138.12 | 8.0602 |
| #1 | .00252 | .00313 | -.00219 | .01636 | .00012 | -.00006 | .00029 | -.00032 | .00053 | -.00002 | -.00006 |
| #2 | -.00223 | .00411 | .00173 | .01251 | -.00009 | -.00001 | .00162 | .00006 | .00022 | -.00187 | -.00007 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00302** | **-.00134** |
| Stddev | .00011 | .00038 |
| %RSD | 3.6267 | 28.024 |
| #1 | .00309 | -.00160 |
| #2 | .00294 | -.00107 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6586.8** | **88389.** | **5456.2** |
| Stddev | 15.8 | 869. | 73.7 |
| %RSD | .23959 | .98307 | 1.3502 |
| #1 | 6575.6 | 89004. | 5404.1 |
| #2 | 6597.9 | 87775. | 5508.3 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 16:22:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01109** | **.10059** | **.01600** | **.09566** | **.01066** | **.00090** | **.10629** | **.20824** | **.00518** | **.01072** | **.00998** | **.01435** |
| Stddev | .00009 | .00001 | .00218 | .00007 | .00016 | .00005 | .00169 | .00067 | .00000 | .00017 | .00016 | .00050 |
| %RSD | .82595 | .00682 | 13.646 | .06816 | 1.5108 | 5.9253 | 1.5867 | .32043 | .01623 | 1.5416 | 1.5872 | 3.5176 |
| #1 | .01115 | .10059 | .01445 | .09571 | .01078 | .00093 | .10510 | .20777 | .00518 | .01061 | .00987 | .01471 |
| #2 | .01102 | .10058 | .01754 | .09562 | .01055 | .00086 | .10748 | .20872 | .00518 | .01084 | .01009 | .01400 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10304** | **3.0949** | **.01036** | **.20564** | **.01051** | **.01999** | **.96511** | **.04115** | **2.7921** | **.00974** | **.00020** | **.01141** |
| Stddev | .00108 | .0083 | .00187 | .00016 | .00001 | .00019 | .02068 | .00044 | .0046 | .00096 | .00069 | .00271 |
| %RSD | 1.0471 | .26986 | 18.006 | .07613 | .12473 | .94726 | 2.1428 | 1.0704 | .16518 | 9.8199 | 346.27 | 23.729 |
| #1 | .10228 | 3.1008 | .01168 | .20553 | .01050 | .02013 | .97973 | .04084 | 2.7889 | .00907 | -.00029 | .01332 |
| #2 | .10380 | 3.0890 | .00904 | .20575 | .01052 | .01986 | .95048 | .04146 | 2.7954 | .01042 | .00069 | .00949 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01775** | **.49602** | **.10097** | **.00972** | **.01427** | **.01015** | **.01600** | F **.04121** | **.00922** | **.02356** | **.01433** |
| Stddev | .00016 | .01307 | .00039 | .00005 | .00041 | .00039 | .00095 | .01328 | .00081 | .00033 | .00132 |
| %RSD | .92671 | 2.6354 | .38763 | .48725 | 2.9073 | 3.8164 | 5.9555 | 32.231 | 8.7653 | 1.3910 | 9.2181 |
| #1 | .01787 | .50527 | .10124 | .00975 | .01456 | .01043 | .01667 | .03182 | .00979 | .02379 | .01526 |
| #2 | .01764 | .48678 | .10069 | .00969 | .01397 | .00988 | .01533 | .05061 | .00865 | .02333 | .01339 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | .06000 | | | |
| Range | | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6605.5** | **88926.** | **5516.4** |
| Stddev | 10.9 | 23. | 10.8 |
| %RSD | .16432 | .02599 | .19524 |
| #1 | 6597.8 | 88942. | 5524.0 |
| #2 | 6613.2 | 88909. | 5508.8 |

Sample Name: MB 280-174447/1-A Acquired: 5/21/2013 16:25:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00504** | **.00499** | **.00141** | **.00043** | **.00001** | **-.00108** | **.00485** | **.00004** |
| Stddev | .00032 | .00032 | .00100 | .00067 | .00018 | .00010 | .00060 | .00055 | .00003 |
| %RSD | 83.675 | 6.3636 | 20.064 | 47.256 | 42.227 | 1113.8 | 55.311 | 11.253 | 78.791 |
| #1 | .00060 | .00481 | .00429 | .00094 | .00030 | .00008 | -.00151 | .00446 | .00002 |
| #2 | .00015 | .00527 | .00570 | .00188 | .00056 | -.00006 | -.00066 | .00523 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **-.00005** | **-.00097** | **.02142** | **.03616** | **-.00194** | **.00393** | **.00023** | **.00028** |
| Stddev | .00011 | .00017 | .00069 | .00190 | .02870 | .00177 | .00112 | .00001 | .00002 |
| %RSD | 143.59 | 329.09 | 71.228 | 8.8767 | 79.384 | 91.203 | 28.439 | 4.7913 | 5.3189 |
| #1 | .00016 | -.00017 | -.00146 | .02008 | .01586 | -.00069 | .00472 | .00024 | .00027 |
| #2 | -.00000 | .00007 | -.00048 | .02277 | .05646 | -.00320 | .00314 | .00022 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02042** | **-.00026** | F **.16766** | **.00033** | **.00516** | **.00152** | **.00209** | **.00497** | **.00037** |
| Stddev | .01286 | .00004 | .00114 | .00045 | .00082 | .00119 | .00040 | .00227 | .00044 |
| %RSD | 63.004 | 14.983 | .68251 | 135.51 | 15.931 | 78.064 | 19.196 | 45.646 | 117.92 |
| #1 | -.01132 | -.00023 | .16847 | .00065 | .00574 | .00236 | .00181 | .00657 | .00006 |
| #2 | -.02951 | -.00029 | .16685 | .00001 | .00458 | .00068 | .00237 | .00337 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **-.00269** | **-.00028** | **.00055** | **.02272** | **-.00043** | **.00247** | **-.00072** |
| Stddev | .00001 | .00175 | .00026 | .00010 | .02122 | .00007 | .00011 | .00069 |
| %RSD | 21.073 | 65.222 | 93.179 | 17.456 | 93.421 | 15.764 | 4.3861 | 95.820 |
| #1 | .00003 | -.00145 | -.00010 | .00049 | .00771 | -.00048 | .00240 | -.00023 |
| #2 | .00004 | -.00393 | -.00047 | .00062 | .03772 | -.00038 | .00255 | -.00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6670.1** | **89863.** | **5583.8** |
| Stddev | 12.9 | 19. | 23.9 |
| %RSD | .19398 | .02155 | .42811 |
| #1 | 6679.3 | 89849. | 5566.9 |
| #2 | 6661.0 | 89877. | 5600.7 |

Sample Name: LCS 280-174447/2-A Acquired: 5/21/2013 16:27:47 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05485** | **1.8876** | **.97549** | **.96330** | **2.0415** | **.04791** | **2.0551** | **49.535** | **.10390** |
| Stddev | .00071 | .0007 | .00179 | .00076 | .0019 | .00002 | .0009 | .167 | .00001 |
| %RSD | 1.2945 | .03823 | .18301 | .07861 | .09138 | .03741 | .04185 | .33619 | .00571 |
| #1 | .05435 | 1.8881 | .97422 | .96276 | 2.0428 | .04792 | 2.0545 | 49.652 | .10390 |
| #2 | .05535 | 1.8871 | .97675 | .96383 | 2.0402 | .04789 | 2.0558 | 49.417 | .10390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50750** | **.19919** | **.24443** | **.98709** | **50.758** | **1.0139** | **49.243** | **.50224** | **.97772** |
| Stddev | .00015 | .00026 | .00017 | .00621 | .164 | .0084 | .116 | .00038 | .00024 |
| %RSD | .02933 | .13033 | .06948 | .62906 | .32315 | .83109 | .23625 | .07663 | .02441 |
| #1 | .50740 | .19938 | .24431 | .99148 | 50.874 | 1.0199 | 49.325 | .50251 | .97755 |
| #2 | .50761 | .19901 | .24455 | .98270 | 50.642 | 1.0080 | 49.161 | .50197 | .97789 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.994** | **.49243** | **9.7946** | **.50827** | **-.00655** | **.51136** | **1.9307** | **9.8586** | **1.9428** |
| Stddev | .141 | .00055 | .0021 | .00074 | .00081 | .00178 | .0038 | .0428 | .0034 |
| %RSD | .27094 | .11238 | .02137 | .14537 | 12.391 | .34897 | .19835 | .43363 | .17361 |
| #1 | 52.094 | .49203 | 9.7960 | .50879 | -.00598 | .51010 | 1.9334 | 9.8888 | 1.9405 |
| #2 | 51.894 | .49282 | 9.7931 | .50775 | -.00712 | .51262 | 1.9280 | 9.8283 | 1.9452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96139** | **1.0412** | **1.0160** | **2.0015** | **2.0957** | **.49584** | **.49744** | **.49016** |
| Stddev | .00382 | .0037 | .0020 | .0008 | .0107 | .00143 | .00166 | .00044 |
| %RSD | .39727 | .35109 | .19934 | .04029 | .50809 | .28777 | .33355 | .08902 |
| #1 | .96409 | 1.0438 | 1.0174 | 2.0021 | 2.1032 | .49685 | .49861 | .49047 |
| #2 | .95869 | 1.0387 | 1.0146 | 2.0009 | 2.0882 | .49483 | .49627 | .48985 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6446.7** | **86259.** | **5494.5** |
| Stddev | 1.2 | 376. | 21.4 |
| %RSD | .01803 | .43617 | .38975 |
| #1 | 6445.9 | 85993. | 5479.3 |
| #2 | 6447.5 | 86525. | 5509.6 |

Sample Name: 280-42223-I-1-B Acquired: 5/21/2013 16:30:01 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.01748** | **.00045** | **.03445** | **.14276** | **-.00014** | **-.00285** | **71.946** | **.00011** |
| Stddev | .00020 | .00010 | .00047 | .00017 | .00011 | .00005 | .00055 | .096 | .00005 |
| %RSD | 43.597 | .56203 | 106.26 | .49995 | .07717 | 38.874 | 19.466 | .13366 | 43.481 |
| #1 | .00031 | .01755 | .00078 | .03432 | .14284 | -.00010 | -.00324 | 72.014 | .00008 |
| #2 | .00059 | .01741 | .00011 | .03457 | .14268 | -.00018 | -.00246 | 71.878 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.01247** | **-.00037** | **.06199** | **2.6611** | **.00346** | **21.887** | **.00101** | **.00145** |
| Stddev | .00009 | .00013 | .00030 | .00091 | .0230 | .00083 | .008 | .00004 | .00022 |
| %RSD | 44.227 | 1.0090 | 80.925 | 1.4625 | .86370 | 23.883 | .03577 | 3.6609 | 15.344 |
| #1 | -.00026 | .01239 | -.00059 | .06263 | 2.6773 | .00287 | 21.892 | .00103 | .00161 |
| #2 | -.00014 | .01256 | -.00016 | .06135 | 2.6448 | .00404 | 21.881 | .00098 | .00129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.308** | **.00064** | **.19736** | **.00169** | **13.022** | **.00266** | **.00062** | **10.562** | **-.00083** |
| Stddev | .300 | .00023 | .00388 | .00081 | .077 | .00267 | .00165 | .019 | .00014 |
| %RSD | 1.4101 | 36.407 | 1.9678 | 47.658 | .59056 | 100.45 | 264.65 | .18438 | 16.251 |
| #1 | 21.096 | .00080 | .19461 | .00112 | 12.967 | .00077 | .00179 | 10.576 | -.00074 |
| #2 | 21.521 | .00047 | .20010 | .00226 | 13.076 | .00455 | -.00054 | 10.548 | -.00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31729** | **-.00001** | **.00045** | **.00138** | **.00859** | **.00409** | **.00349** | **-.00125** |
| Stddev | .00127 | .00200 | .00024 | .00003 | .00022 | .00050 | .00019 | .00048 |
| %RSD | .39907 | 13880. | 53.138 | 2.3281 | 2.5355 | 12.179 | 5.4010 | 38.246 |
| #1 | .31819 | -.00143 | .00062 | .00135 | .00843 | .00445 | .00336 | -.00091 |
| #2 | .31640 | .00140 | .00028 | .00140 | .00874 | .00374 | .00363 | -.00158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6517.8** | **87150.** | **5551.6** |
| Stddev | 4.6 | 271. | 24.0 |
| %RSD | .07016 | .31051 | .43213 |
| #1 | 6514.6 | 86959. | 5534.7 |
| #2 | 6521.0 | 87342. | 5568.6 |

Sample Name: sd 280-42223-I-1-B@5 Acquired: 5/21/2013 16:32:27 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.00428** | **.00014** | **.00766** | **.02873** | **-.00004** | **-.00187** | **14.385** | **.00012** |
| Stddev | .00004 | .00027 | .00280 | .00002 | .00081 | .00004 | .00010 | .044 | .00019 |
| %RSD | 5.1358 | 6.3268 | 1970.7 | .30391 | 2.8205 | 95.709 | 5.4549 | .30463 | 166.76 |
| #1 | .00085 | .00409 | -.00184 | .00768 | .02931 | -.00006 | -.00194 | 14.416 | .00025 |
| #2 | .00079 | .00447 | .00212 | .00765 | .02816 | -.00001 | -.00180 | 14.354 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00250** | **-.00111** | **.03531** | **.55963** | **-.00002** | **4.4757** | **.00048** | **.00049** |
| Stddev | .00012 | .00007 | .00012 | .00296 | .08642 | .00026 | .0063 | .00005 | .00005 |
| %RSD | 517.76 | 2.6725 | 10.690 | 8.3834 | 15.442 | 1313.0 | .14094 | 9.8965 | 10.725 |
| #1 | .00011 | .00255 | -.00119 | .03741 | .62073 | .00016 | 4.4801 | .00051 | .00052 |
| #2 | -.00006 | .00245 | -.00102 | .03322 | .49852 | -.00020 | 4.4712 | .00044 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.9030** | **.00029** | **.04206** | **-.00038** | **2.5854** | **.00023** | **-.00368** | **2.0662** | **-.00003** |
| Stddev | .0288 | .00024 | .00051 | .00072 | .0092 | .00021 | .00082 | .0188 | .00066 |
| %RSD | .73677 | 81.751 | 1.2119 | 189.65 | .35580 | 93.465 | 22.151 | .91224 | 2149.4 |
| #1 | 3.9233 | .00046 | .04242 | -.00089 | 2.5789 | .00038 | -.00426 | 2.0795 | .00043 |
| #2 | 3.8826 | .00012 | .04170 | .00013 | 2.5919 | .00008 | -.00310 | 2.0528 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06383** | **.00041** | **.00001** | **.00141** | **-.00850** | **.00049** | **.00424** | **-.00196** |
| Stddev | .00066 | .00050 | .00053 | .00036 | .01468 | .00083 | .00028 | .00023 |
| %RSD | 1.0305 | 122.66 | 8137.6 | 25.237 | 172.72 | 168.51 | 6.5709 | 11.862 |
| #1 | .06430 | .00077 | -.00037 | .00166 | -.01888 | -.00009 | .00405 | -.00212 |
| #2 | .06337 | .00005 | .00038 | .00116 | .00188 | .00108 | .00444 | -.00179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6591.1** | **87926.** | **5534.2** |
| Stddev | 3.1 | 364. | 24.3 |
| %RSD | .04687 | .41394 | .43852 |
| #1 | 6593.3 | 87668. | 5517.0 |
| #2 | 6588.9 | 88183. | 5551.3 |

Sample Name: 280-42223-I-1-C MS Acquired: 5/21/2013 16:34:53 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05435** | **1.8736** | **.97731** | **.99116** | **2.1680** | **.04779** | **2.0437** | **120.62** | **.10351** |
| Stddev | .00043 | .0026 | .00160 | .00157 | .0233 | .00044 | .0001 | 1.08 | .00014 |
| %RSD | .78744 | .14079 | .16342 | .15803 | 1.0767 | .91805 | .00758 | .89785 | .13665 |
| #1 | .05404 | 1.8754 | .97843 | .99227 | 2.1515 | .04748 | 2.0436 | 119.86 | .10361 |
| #2 | .05465 | 1.8717 | .97618 | .99005 | 2.1845 | .04810 | 2.0438 | 121.39 | .10341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50010** | **.20931** | **.24287** | **1.0116** | **53.051** | **1.0084** | **70.343** | **.49766** | **.97066** |
| Stddev | .00071 | .00001 | .00009 | .0052 | .175 | .0105 | .114 | .00111 | .00019 |
| %RSD | .14222 | .00257 | .03622 | .51140 | .33007 | 1.0371 | .16267 | .22230 | .01980 |
| #1 | .50061 | .20931 | .24293 | 1.0079 | 52.927 | 1.0010 | 70.262 | .49688 | .97053 |
| #2 | .49960 | .20931 | .24281 | 1.0152 | 53.175 | 1.0158 | 70.424 | .49844 | .97080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **71.846** | **.48501** | **9.8380** | **.49947** | **13.307** | **.50896** | **1.9175** | **20.266** | **1.9194** |
| Stddev | .690 | .00013 | .0022 | .00033 | .019 | .00151 | .0073 | .181 | .0024 |
| %RSD | .96052 | .02769 | .02219 | .06658 | .13919 | .29667 | .37854 | .89436 | .12487 |
| #1 | 71.358 | .48510 | 9.8396 | .49970 | 13.294 | .51003 | 1.9124 | 20.137 | 1.9177 |
| #2 | 72.334 | .48491 | 9.8365 | .49923 | 13.320 | .50789 | 1.9227 | 20.394 | 1.9211 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2673** | **1.0455** | **1.0130** | **1.9528** | **2.0838** | **.49820** | **.49338** | **.48627** |
| Stddev | .0076 | .0031 | .0035 | .0008 | .0195 | .00219 | .00108 | .00538 |
| %RSD | .59751 | .29235 | .34382 | .04326 | .93745 | .44018 | .21952 | 1.1067 |
| #1 | 1.2619 | 1.0434 | 1.0105 | 1.9522 | 2.0976 | .49665 | .49262 | .48247 |
| #2 | 1.2726 | 1.0477 | 1.0155 | 1.9534 | 2.0700 | .49975 | .49415 | .49008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6349.5** | **85074.** | **5467.6** |
| Stddev | 18.4 | 122. | 37.5 |
| %RSD | .28950 | .14398 | .68602 |
| #1 | 6336.5 | 85160. | 5494.1 |
| #2 | 6362.5 | 84987. | 5441.1 |

Sample Name: 280-42223-I-1-D MSD  Acquired: 5/21/2013 16:37:05  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05473** | **1.8614** | **.97561** | **.99594** | **2.1585** | **.04744** | **2.0351** | **120.71** | **.10286** |
| Stddev | .00064 | .0001 | .00164 | .00066 | .0072 | .00023 | .0015 | .50 | .00003 |
| %RSD | 1.1604 | .00457 | .16797 | .06671 | .33240 | .49433 | .07481 | .41039 | .02990 |
| #1 | .05518 | 1.8615 | .97677 | .99547 | 2.1636 | .04761 | 2.0362 | 121.06 | .10288 |
| #2 | .05428 | 1.8614 | .97445 | .99641 | 2.1534 | .04728 | 2.0341 | 120.36 | .10283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49683** | **.20759** | **.24368** | **1.0188** | **53.227** | **1.0095** | **70.276** | **.49756** | **.97433** |
| Stddev | .00013 | .00003 | .00018 | .0045 | .340 | .0045 | .047 | .00071 | .00174 |
| %RSD | .02605 | .01592 | .07207 | .44582 | .63853 | .44827 | .06665 | .14313 | .17877 |
| #1 | .49692 | .20761 | .24356 | 1.0220 | 53.467 | 1.0127 | 70.309 | .49706 | .97556 |
| #2 | .49674 | .20756 | .24381 | 1.0156 | 52.987 | 1.0063 | 70.243 | .49807 | .97310 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **71.769** | **.48212** | **9.7909** | **.49942** | **13.284** | **.50937** | **1.9097** | **20.407** | **1.9305** |
| Stddev | .439 | .00115 | .0097 | .00098 | .021 | .00213 | .0013 | .163 | .0011 |
| %RSD | .61165 | .23792 | .09880 | .19547 | .15564 | .41757 | .06848 | .79710 | .05847 |
| #1 | 72.079 | .48293 | 9.7978 | .49873 | 13.269 | .50787 | 1.9087 | 20.522 | 1.9297 |
| #2 | 71.458 | .48131 | 9.7841 | .50011 | 13.298 | .51087 | 1.9106 | 20.292 | 1.9313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2658** | **1.0438** | **1.0229** | **1.9448** | **2.0972** | **.49743** | **.49037** | **.48871** |
| Stddev | .0105 | .0001 | .0001 | .0019 | .0047 | .00006 | .00016 | .00278 |
| %RSD | .83130 | .01322 | .00618 | .10005 | .22425 | .01132 | .03182 | .56852 |
| #1 | 1.2733 | 1.0437 | 1.0228 | 1.9434 | 2.1005 | .49739 | .49048 | .49067 |
| #2 | 1.2584 | 1.0439 | 1.0229 | 1.9462 | 2.0938 | .49747 | .49026 | .48674 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6419.2** | **85977.** | **5534.5** |
| Stddev | 10.4 | 85. | 38.3 |
| %RSD | .16138 | .09925 | .69142 |
| #1 | 6411.9 | 85917. | 5507.4 |
| #2 | 6426.5 | 86038. | 5561.5 |

Sample Name: 280-42223-I-2-B Acquired: 5/21/2013 16:39:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **.03467** | **.00275** | **.03149** | **.14592** | **-.00009** | **-.00461** | **68.862** | **.00014** |
| Stddev | .00096 | .00064 | .00030 | .00051 | .00024 | .00005 | .00063 | .198 | .00010 |
| %RSD | 158.09 | 1.8483 | 10.838 | 1.6077 | .16328 | 63.234 | 13.588 | .28770 | 71.647 |
| #1 | -.00007 | .03421 | .00296 | .03185 | .14608 | -.00013 | -.00417 | 68.722 | .00021 |
| #2 | .00128 | .03512 | .00254 | .03113 | .14575 | -.00005 | -.00505 | 69.002 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.01822** | **-.00015** | **.06987** | **2.6733** | **.00253** | **21.193** | **.00118** | **.00183** |
| Stddev | .00021 | .00031 | .00031 | .00015 | .0945 | .00026 | .040 | .00009 | .00004 |
| %RSD | 1553.2 | 1.7169 | 209.93 | .21838 | 3.5356 | 10.293 | .18877 | 7.8651 | 2.1742 |
| #1 | .00014 | .01844 | .00007 | .06976 | 2.6064 | .00235 | 21.165 | .00111 | .00180 |
| #2 | -.00016 | .01799 | -.00036 | .06997 | 2.7401 | .00272 | 21.221 | .00124 | .00186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.226** | **.00268** | **.19068** | **.00281** | **12.395** | **.00098** | **.00046** | **10.501** | **.00003** |
| Stddev | .501 | .00001 | .00082 | .00292 | .002 | .00141 | .00210 | .022 | .00041 |
| %RSD | 2.4758 | .20018 | .42749 | 103.80 | .01434 | 143.16 | 453.92 | .20716 | 1191.0 |
| #1 | 20.580 | .00267 | .19125 | .00488 | 12.397 | -.00001 | .00195 | 10.485 | -.00026 |
| #2 | 19.872 | .00268 | .19010 | .00075 | 12.394 | .00198 | -.00102 | 10.516 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30148** | **-.00101** | **.00059** | **.00109** | **-.00371** | **.00341** | **.00386** | **.00066** |
| Stddev | .00008 | .00163 | .00026 | .00179 | .02743 | .00008 | .00010 | .00048 |
| %RSD | .02550 | 162.17 | 44.358 | 163.67 | 740.17 | 2.2941 | 2.6109 | 73.873 |
| #1 | .30153 | .00015 | .00040 | -.00017 | -.02310 | .00336 | .00394 | .00100 |
| #2 | .30142 | -.00216 | .00077 | .00236 | .01569 | .00347 | .00379 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6556.1** | **88082.** | **5578.8** |
| Stddev | 16.2 | 129. | 29.4 |
| %RSD | .24642 | .14640 | .52715 |
| #1 | 6544.6 | 87991. | 5599.6 |
| #2 | 6567.5 | 88173. | 5558.0 |

Sample Name: 280-42223-I-3-B Acquired: 5/21/2013 16:41:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00349** | **.00364** | **.01449** | **.07669** | **.00002** | **-.00277** | **44.087** | **.00028** |
| Stddev | .00000 | .00014 | .00035 | .00072 | .00024 | .00010 | .00047 | .044 | .00006 |
| %RSD | .08949 | 3.9627 | 9.7152 | 4.9735 | .31607 | 600.16 | 16.824 | .09901 | 23.044 |
| #1 | .00062 | .00339 | .00339 | .01500 | .07686 | -.00005 | -.00310 | 44.056 | .00032 |
| #2 | .00062 | .00359 | .00389 | .01398 | .07652 | .00009 | -.00244 | 44.118 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.00778** | **-.00082** | **.02572** | **2.5759** | **.00129** | **15.331** | **.00053** | **.00262** |
| Stddev | .00010 | .00017 | .00021 | .00110 | .0436 | .00015 | .039 | .00005 | .00006 |
| %RSD | 73.455 | 2.2121 | 25.464 | 4.2750 | 1.6911 | 11.808 | .25498 | 10.394 | 2.2034 |
| #1 | -.00021 | .00765 | -.00067 | .02494 | 2.6067 | .00139 | 15.304 | .00057 | .00266 |
| #2 | -.00007 | .00790 | -.00097 | .02650 | 2.5451 | .00118 | 15.359 | .00049 | .00258 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.0947** | **.00037** | **.20029** | **.00003** | **7.1555** | **.00019** | **-.00023** | **12.192** | **.00038** |
| Stddev | .0272 | .00055 | .00342 | .00048 | .0935 | .00083 | .00263 | .033 | .00006 |
| %RSD | .38335 | 147.13 | 1.7087 | 1899.4 | 1.3068 | 437.56 | 1137.6 | .27114 | 16.953 |
| #1 | 7.0755 | -.00002 | .20271 | .00037 | 7.2216 | .00078 | .00163 | 12.215 | .00034 |
| #2 | 7.1140 | .00076 | .19787 | -.00032 | 7.0894 | -.00040 | -.00209 | 12.169 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23301** | **.00050** | **.00044** | **.00214** | **-.02404** | **.00531** | **.00392** | **-.00062** |
| Stddev | .00005 | .00003 | .00031 | .00124 | .00704 | .00016 | .00036 | .00130 |
| %RSD | .02065 | 5.7552 | 70.989 | 58.003 | 29.297 | 2.9204 | 9.0579 | 211.37 |
| #1 | .23304 | .00048 | .00022 | .00301 | -.01906 | .00520 | .00417 | .00030 |
| #2 | .23298 | .00052 | .00066 | .00126 | -.02902 | .00542 | .00367 | -.00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6612.6** | **88833.** | **5573.2** |
| Stddev | 71.2 | 79. | 9.6 |
| %RSD | 1.0765 | .08866 | .17242 |
| #1 | 6562.3 | 88888. | 5580.0 |
| #2 | 6663.0 | 88777. | 5566.5 |

Sample Name: 280-42223-I-4-B Acquired: 5/21/2013 16:44:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174447 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **.00669** | **.00045** | **.16469** | **.14351** | **-.00012** | **-.00498** | **149.99** | **.00034** |
| Stddev | .00047 | .00060 | .00058 | .00031 | .00074 | .00005 | .00208 | .07 | .00009 |
| %RSD | 170.83 | 9.0372 | 128.45 | .18758 | .51795 | 42.505 | 41.770 | .04724 | 25.353 |
| #1 | -.00061 | .00711 | .00086 | .16447 | .14298 | -.00016 | -.00351 | 149.94 | .00028 |
| #2 | .00006 | .00626 | .00004 | .16491 | .14403 | -.00009 | -.00646 | 150.04 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **.03692** | **.00090** | **.01854** | **6.6565** | **.00976** | **37.992** | **.00028** | **.00271** |
| Stddev | .00019 | .00011 | .00001 | .00103 | .0086 | .00153 | .120 | .00001 | .00030 |
| %RSD | 109.23 | .30147 | 1.5130 | 5.5370 | .12855 | 15.675 | .31595 | 2.8114 | 11.057 |
| #1 | -.00004 | .03700 | .00091 | .01782 | 6.6625 | .00868 | 38.076 | .00028 | .00250 |
| #2 | -.00030 | .03684 | .00089 | .01927 | 6.6504 | .01085 | 37.907 | .00027 | .00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **191.91** | **.00175** | **.26587** | **.00064** | **29.649** | **.00186** | **-.00009** | **10.976** | **-.00043** |
| Stddev | .77 | .00008 | .00451 | .00032 | .084 | .00123 | .00179 | .057 | .00032 |
| %RSD | .40088 | 4.6240 | 1.6955 | 49.157 | .28180 | 66.433 | 1918.8 | .52110 | 76.154 |
| #1 | 191.37 | .00180 | .26268 | .00087 | 29.589 | .00098 | .00117 | 11.017 | -.00020 |
| #2 | 192.46 | .00169 | .26906 | .00042 | 29.708 | .00273 | -.00136 | 10.936 | -.00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67709** | **-.00051** | **.00075** | **.00060** | **-.01330** | **.00433** | **.00435** | **-.00029** |
| Stddev | .00117 | .00328 | .00011 | .00056 | .00543 | .00007 | .00038 | .00130 |
| %RSD | .17280 | 640.64 | 14.241 | 93.017 | 40.855 | 1.7267 | 8.7088 | 446.30 |
| #1 | .67791 | -.00283 | .00083 | .00020 | -.00946 | .00439 | .00462 | .00063 |
| #2 | .67626 | .00181 | .00068 | .00099 | -.01714 | .00428 | .00408 | -.00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6377.1** | **86516.** | **5533.8** |
| Stddev | 1.7 | 508. | 6.7 |
| %RSD | .02714 | .58679 | .12129 |
| #1 | 6378.3 | 86157. | 5529.0 |
| #2 | 6375.9 | 86875. | 5538.5 |

Sample Name: 280-42225-L-3-A@10 Acquired: 5/21/2013 16:46:35 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174440 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.00379** | **-.00002** | **.01803** | **.00816** | **-.00016** | **.00204** | **257.92** | **.00075** |
| Stddev | .00029 | .00054 | .00093 | .00054 | .00036 | .00006 | .00308 | 2.81 | .00006 |
| %RSD | 19.347 | 14.236 | 4950.3 | 2.9998 | 4.3910 | 34.199 | 150.80 | 1.0876 | 8.6632 |
| #1 | .00169 | .00340 | .00064 | .01765 | .00790 | -.00012 | -.00014 | 259.90 | .00070 |
| #2 | .00128 | .00417 | -.00067 | .01841 | .00841 | -.00020 | .00422 | 255.93 | .00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00825** | **.00015** | **-.00047** | **.04718** | **.93256** | **.01303** | **304.98** | **6.9379** | **-.00029** |
| Stddev | .00003 | .00011 | .00025 | .00234 | .08170 | .00093 | 1.79 | .1185 | .00028 |
| %RSD | .39717 | 75.222 | 52.595 | 4.9614 | 8.7606 | 7.1441 | .58804 | 1.7079 | 97.907 |
| #1 | .00827 | .00007 | -.00064 | .04553 | .87479 | .01369 | 303.71 | 6.8542 | -.00009 |
| #2 | .00823 | .00022 | -.00029 | .04884 | .99033 | .01237 | 306.24 | 7.0217 | -.00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **422.07** | **.00671** | **.01492** | **-.00032** | **52.683** | **.00190** | **-.00233** | **1.1371** | **-.00043** |
| Stddev | 1.13 | .00006 | .00006 | .00047 | .186 | .00006 | .00049 | .0065 | .00007 |
| %RSD | .26757 | .86877 | .41575 | 148.79 | .35332 | 3.1874 | 20.928 | .57444 | 16.703 |
| #1 | 422.87 | .00667 | .01496 | .00002 | 52.815 | .00194 | -.00198 | 1.1324 | -.00048 |
| #2 | 421.27 | .00675 | .01487 | -.00065 | 52.551 | .00186 | -.00267 | 1.1417 | -.00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.6604** | **.00039** | **-.00064** | **-.00380** | **-.01290** | **-.00014** | **.00431** | **.00127** |
| Stddev | .0047 | .00166 | .00011 | .00006 | .04600 | .00047 | .00028 | .00013 |
| %RSD | .08319 | 422.31 | 17.467 | 1.6425 | 356.58 | 325.09 | 6.5775 | 10.387 |
| #1 | 5.6571 | .00156 | -.00056 | -.00384 | -.04543 | -.00047 | .00411 | .00136 |
| #2 | 5.6638 | -.00078 | -.00072 | -.00376 | .01963 | .00019 | .00451 | .00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6077.9** | **82242.** | **5384.2** |
| Stddev | 22.4 | 697. | 17.6 |
| %RSD | .36920 | .84800 | .32622 |
| #1 | 6093.8 | 81749. | 5396.7 |
| #2 | 6062.1 | 82735. | 5371.8 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 16:49:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00197** | **50.191** | **-.00141** | **.00280** | **.00060** | **-.00012** | **.99358** | **.01047** | **-.00080** | **.00184** | **-.00035** | **.00032** | **49.812** |
| Stddev | .00050 | .289 | .00040 | .00026 | .00021 | .00000 | .00042 | .00112 | .00004 | .00003 | .00006 | .00014 | .158 |
| %RSD | 25.513 | .57678 | 28.550 | 9.2980 | 34.547 | 3.3841 | .04204 | 10.683 | 5.0150 | 1.7590 | 18.365 | 45.234 | .31681 |
| #1 | .00233 | 49.986 | -.00112 | .00298 | .00075 | -.00012 | .99328 | .01127 | -.00083 | .00181 | -.00031 | .00022 | 49.924 |
| #2 | .00162 | 50.395 | -.00169 | .00261 | .00045 | -.00012 | .99387 | .00968 | -.00077 | .00186 | -.00040 | .00042 | 49.701 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18301** | **.00054** | **.00631** | **-.00053** | **-.00169** | **251.31** | **.00108** | **.00490** | **-.00030** | **4.9749** | **-.00072** | **.00149** | **.01332** |
| Stddev | .02220 | .00065 | .00136 | .00002 | .00008 | .05 | .00025 | .00138 | .00111 | .0113 | .00084 | .00417 | .00192 |
| %RSD | 12.130 | 122.03 | 21.628 | 4.1198 | 4.8884 | .01794 | 23.307 | 28.069 | 373.47 | .22642 | 115.38 | 279.57 | 14.435 |
| #1 | .19870 | .00100 | .00534 | -.00051 | -.00175 | 251.28 | .00126 | .00393 | .00049 | 4.9829 | -.00132 | -.00146 | .01468 |
| #2 | .16731 | .00007 | .00727 | -.00054 | -.00163 | 251.34 | .00090 | .00588 | -.00108 | 4.9670 | -.00013 | .00444 | .01196 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **.00043** | **5.1373** | **.00283** | **-.00216** | **9.9934** | **-.00043** | **.00361** | **-.03922** |
| Stddev | .00033 | .00007 | .0093 | .00007 | .00168 | .0381 | .00044 | .00024 | .00226 |
| %RSD | 37.235 | 17.106 | .18039 | 2.6359 | 77.703 | .38143 | 100.79 | 6.5584 | 5.7708 |
| #1 | .00066 | .00048 | 5.1307 | .00278 | -.00335 | 9.9664 | -.00074 | .00345 | -.03762 |
| #2 | .00114 | .00038 | 5.1438 | .00288 | -.00097 | 10.020 | -.00012 | .00378 | -.04082 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6366.4** | **84761.** | **5409.2** |
| Stddev | 5.5 | 238. | 6.5 |
| %RSD | .08637 | .28024 | .12036 |
| #1 | 6370.3 | 84929. | 5413.8 |
| #2 | 6362.6 | 84593. | 5404.6 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 16:51:51 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52022** | **.49925** | **.99168** | **.48990** | **.51019** | **.48135** | **.00007** | **5.0430** | **.51346** | **.51834** | **.49984** | **.49336** | **2.4749** | **50.958** |
| Stddev | .00111 | .00053 | .00038 | .00088 | .00048 | .00064 | .00097 | .0159 | .00045 | .00020 | .00066 | .00124 | .0088 | .158 |
| %RSD | .21303 | .10605 | .03863 | .17954 | .09358 | .13326 | 1453.6 | .31522 | .08841 | .03923 | .13140 | .25142 | .35603 | .30967 |
| #1 | .52100 | .49887 | .99195 | .48928 | .50985 | .48180 | .00075 | 5.0543 | .51378 | .51849 | .50031 | .49424 | 2.4811 | 51.070 |
| #2 | .51944 | .49962 | .99141 | .49052 | .51053 | .48089 | -.00062 | 5.0318 | .51314 | .51820 | .49938 | .49248 | 2.4686 | 50.847 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0238** | **20.019** | **.50926** | **.49656** | **5.1910** | **.50950** | **.96303** | **1.0359** | **.00982** | **1.0203** | **.97507** | **4.9448** | **1.0013** | **.48684** |
| Stddev | .0064 | .039 | .00050 | .00096 | .0145 | .00078 | .00024 | .0033 | .00134 | .0054 | .00217 | .0408 | .0022 | .00215 |
| %RSD | .62424 | .19510 | .09788 | .19325 | .27977 | .15260 | .02487 | .32167 | 13.622 | .52872 | .22228 | .82620 | .22140 | .44087 |
| #1 | 1.0283 | 20.046 | .50961 | .49724 | 5.1807 | .51005 | .96320 | 1.0383 | .01076 | 1.0241 | .97660 | 4.9737 | 1.0028 | .48836 |
| #2 | 1.0192 | 19.991 | .50891 | .49588 | 5.2012 | .50895 | .96286 | 1.0336 | .00887 | 1.0165 | .97354 | 4.9160 | .99969 | .48532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.51342** | **1.0245** | **.01758** | **.49411** | **.51106** | **.50607** |
| Stddev | .00009 | .00011 | .0040 | .00575 | .00084 | .00021 | .00112 |
| %RSD | 10.452 | .02216 | .39405 | 32.680 | .16906 | .04171 | .22192 |
| #1 | .00078 | .51334 | 1.0274 | .02165 | .49352 | .51121 | .50527 |
| #2 | .00090 | .51350 | 1.0217 | .01352 | .49470 | .51091 | .50686 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6492.5** | **86689.** | **5345.9** |
| Stddev | 17.5 | 51. | 12.2 |
| %RSD | .26918 | .05937 | .22852 |
| #1 | 6480.1 | 86653. | 5337.3 |
| #2 | 6504.9 | 86726. | 5354.5 |

Sample Name: CCB Acquired: 5/21/2013 16:54:05 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **-.00027** | **.00040** | W **.00233** | **.00044** | **-.00003** | **-.00059** | **.00288** | **.00016** | **.00020** | **.00005** |
| Stddev | .00019 | .00013 | .00081 | .00007 | .00019 | .00003 | .00044 | .00079 | .00002 | .00008 | .00004 |
| %RSD | 26.726 | 48.364 | 204.85 | 2.9677 | 42.476 | 123.84 | 75.417 | 27.406 | 13.134 | 40.710 | 80.811 |
| #1 | .00058 | -.00018 | -.00018 | .00228 | .00031 | -.00000 | -.00027 | .00232 | .00015 | .00014 | .00002 |
| #2 | .00085 | -.00037 | .00097 | .00238 | .00057 | -.00005 | -.00090 | .00343 | .00018 | .00026 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00085** | F **.04887** | **.10742** | **-.00065** | **.00311** | W **.00038** | **.00041** | W **.09372** | **.00006** | **.00190** | **.00082** |
| Stddev | .00026 | .00139 | .03382 | .00004 | .00074 | .00000 | .00008 | .00383 | .00021 | .00121 | .00130 |
| %RSD | 30.072 | 2.8504 | 31.482 | 6.6616 | 23.862 | .83111 | 18.548 | 4.0907 | 389.85 | 63.560 | 158.22 |
| #1 | -.00067 | .04789 | .13134 | -.00068 | .00363 | .00038 | .00036 | .09644 | .00021 | .00105 | -.00010 |
| #2 | -.00104 | .04986 | .08351 | -.00062 | .00258 | .00037 | .00047 | .09101 | -.00010 | .00276 | .00174 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | | | | .00025 | | .09160 | | | |
| Low Limit | | -.04400 | | | | -.00025 | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00676** | **.00262** | **.00241** | **-.00665** | **-.00011** | **.00011** | **.00068** | **.00005** | **-.00028** | **-.02105** | **-.00032** |
| Stddev | .00288 | .00212 | .00059 | .01856 | .00082 | .00000 | .00002 | .00012 | .00063 | .00641 | .00006 |
| %RSD | 42.614 | 81.078 | 24.375 | 278.91 | 731.76 | 1.0216 | 3.1378 | 217.65 | 222.03 | 30.441 | 18.281 |
| #1 | .00472 | .00412 | .00200 | .00647 | -.00069 | .00011 | .00070 | .00014 | -.00072 | -.02558 | -.00028 |
| #2 | .00880 | .00112 | .00283 | -.01977 | .00047 | .00011 | .00067 | -.00003 | .00016 | -.01652 | -.00036 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00238** | **.00033** |
| Stddev | .00016 | .00152 |
| %RSD | 6.7415 | 464.88 |
| #1 | .00226 | .00140 |
| #2 | .00249 | -.00075 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6503.7** | **87263.** | **5405.1** |
| Stddev | 7.6 | 87. | 3.7 |
| %RSD | .11713 | .09941 | .06803 |
| #1 | 6498.3 | 87201. | 5402.5 |
| #2 | 6509.1 | 87324. | 5407.7 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 16:56:34 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01046** | **.10340** | **.01457** | **.09860** | **.01063** | **.00094** | **.10862** | **.21303** | **.00531** | **.01092** | **.01035** |
| Stddev | .00091 | .00005 | .00084 | .00029 | .00020 | .00001 | .00217 | .00402 | .00013 | .00018 | .00012 |
| %RSD | 8.6610 | .04376 | 5.7898 | .29780 | 1.9022 | .72386 | 1.9940 | 1.8890 | 2.3744 | 1.6318 | 1.1419 |
| #1 | .00982 | .10337 | .01516 | .09881 | .01078 | .00094 | .10709 | .21018 | .00522 | .01105 | .01027 |
| #2 | .01110 | .10343 | .01397 | .09839 | .01049 | .00093 | .11015 | .21587 | .00540 | .01079 | .01044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01462** | **.10258** | **3.1997** | **.01048** | **.21157** | **.01073** | **.02052** | **1.0954** | **.04233** | **2.8749** | W **.01087** |
| Stddev | .00004 | .00073 | .0257 | .00123 | .00318 | .00001 | .00000 | .0064 | .00016 | .0149 | .00026 |
| %RSD | .26962 | .71150 | .80235 | 11.763 | 1.5017 | .07546 | .01750 | .58758 | .38082 | .51904 | 2.3566 |
| #1 | .01465 | .10206 | 3.1815 | .00961 | .20933 | .01072 | .02052 | 1.0999 | .04244 | 2.8855 | .01069 |
| #2 | .01459 | .10309 | 3.2178 | .01135 | .21382 | .01073 | .02052 | 1.0908 | .04222 | 2.8643 | .01106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | | | | .00900 |
| Range | | | | | | | | | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00523** | **.01160** | **.01511** | **.50966** | **.10299** | **.00996** | **.01667** | **.01047** | **.01728** | F **.08140** | **.00976** |
| Stddev | .00175 | .00083 | .00320 | .00513 | .00076 | .00002 | .00105 | .00006 | .00036 | .03996 | .00019 |
| %RSD | 33.487 | 7.1216 | 21.145 | 1.0057 | .73626 | .24881 | 6.2767 | .53157 | 2.0958 | 49.095 | 1.9256 |
| #1 | .00399 | .01102 | .01737 | .51328 | .10353 | .00995 | .01593 | .01051 | .01754 | .10966 | .00990 |
| #2 | .00647 | .01219 | .01285 | .50603 | .10246 | .00998 | .01741 | .01043 | .01702 | .05314 | .00963 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02379** | **.01600** |
| Stddev | .00032 | .00228 |
| %RSD | 1.3661 | 14.282 |
| #1 | .02402 | .01761 |
| #2 | .02356 | .01438 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6467.2** | **87208.** | **5442.3** |
| Stddev | .1 | 9. | 9.6 |
| %RSD | .00157 | .00978 | .17638 |
| #1 | 6467.3 | 87214. | 5449.1 |
| #2 | 6467.1 | 87202. | 5435.5 |

Sample Name: 280-42172-N-1-B@10 Acquired: 5/21/2013 16:58:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174456 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.70739** | **.00983** | **1.3738** | **.09876** | **-.00007** | **.00027** | **22.382** | **.00023** |
| Stddev | .00040 | .00066 | .00225 | .0045 | .00046 | .00004 | .00208 | .106 | .00005 |
| %RSD | 114.03 | .09305 | 22.898 | .32973 | .46303 | 56.104 | 776.29 | .47334 | 20.384 |
| #1 | .00007 | .70786 | .00824 | 1.3706 | .09908 | -.00010 | -.00120 | 22.457 | .00020 |
| #2 | .00063 | .70693 | .01142 | 1.3770 | .09844 | -.00004 | .00174 | 22.307 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00504** | **.01185** | **.00356** | **1.7074** | **58.187** | **.00873** | **41.717** | **.10281** | **.01302** |
| Stddev | .00013 | .00011 | .00069 | .0001 | .424 | .00186 | .050 | .00002 | .00005 |
| %RSD | 2.5600 | .95749 | 19.347 | .00281 | .72941 | 21.326 | .12056 | .02188 | .41880 |
| #1 | .00495 | .01193 | .00405 | 1.7074 | 58.487 | .01005 | 41.753 | .10282 | .01299 |
| #2 | .00514 | .01177 | .00308 | 1.7074 | 57.886 | .00741 | 41.682 | .10279 | .01306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **333.68** | **.02213** | **1.5121** | **.00168** | **9.3179** | **.00181** | **.00127** | **2.7019** | **.00299** |
| Stddev | 1.30 | .00017 | .0067 | .00062 | .0352 | .00224 | .00019 | .0069 | .00039 |
| %RSD | .38916 | .76043 | .44025 | 36.944 | .37768 | 123.58 | 14.585 | .25735 | 13.089 |
| #1 | 334.60 | .02201 | 1.5074 | .00124 | 9.2930 | .00023 | .00114 | 2.7069 | .00327 |
| #2 | 332.76 | .02225 | 1.5168 | .00211 | 9.3428 | .00339 | .00141 | 2.6970 | .00272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20925** | **.00035** | **.01469** | **.00124** | **-.00667** | **.04831** | **.04251** | **.00266** |
| Stddev | .00156 | .00096 | .00026 | .00045 | .01602 | .00121 | .00031 | .00142 |
| %RSD | .74538 | 270.32 | 1.7853 | 36.273 | 240.40 | 2.4984 | .72134 | 53.469 |
| #1 | .21035 | .00103 | .01450 | .00092 | -.01800 | .04745 | .04230 | .00166 |
| #2 | .20815 | -.00032 | .01487 | .00156 | .00467 | .04916 | .04273 | .00367 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6399.0** | **85790.** | **5553.3** |
| Stddev | 6.7 | 358. | 40.8 |
| %RSD | .10463 | .41747 | .73403 |
| #1 | 6403.7 | 85537. | 5524.5 |
| #2 | 6394.2 | 86043. | 5582.2 |

Sample Name: 280-42225-L-3-C@10 Acquired: 5/21/2013 17:01:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174456 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **-.00037** | **-.00119** | **.02049** | **.00851** | **-.00021** | **-.00284** | **271.66** | **.00043** |
| Stddev | .00108 | .00058 | .00246 | .00007 | .00032 | .00009 | .00051 | 3.07 | .00002 |
| %RSD | 98.747 | 155.72 | 206.18 | .35592 | 3.7932 | 41.926 | 18.114 | 1.1296 | 3.5015 |
| #1 | .00185 | .00004 | .00055 | .02044 | .00874 | -.00027 | -.00248 | 273.83 | .00044 |
| #2 | .00033 | -.00078 | -.00294 | .02054 | .00828 | -.00014 | -.00321 | 269.49 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00832** | **.00027** | **-.00064** | **.03422** | **1.1689** | **.01187** | **312.72** | **7.2107** | **-.00062** |
| Stddev | .00024 | .00000 | .00004 | .00322 | .0413 | .00138 | 1.04 | .1009 | .00028 |
| %RSD | 2.8839 | .91159 | 6.5199 | 9.4205 | 3.5362 | 11.620 | .33143 | 1.3988 | 45.352 |
| #1 | .00849 | .00027 | -.00067 | .03194 | 1.1397 | .01090 | 313.45 | 7.1393 | -.00082 |
| #2 | .00815 | .00026 | -.00061 | .03650 | 1.1981 | .01285 | 311.98 | 7.2820 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **436.52** | **.00667** | **.01677** | **.00092** | **54.286** | **.00128** | **.00165** | **1.2070** | **-.00104** |
| Stddev | .53 | .00004 | .00080 | .00051 | .046 | .00172 | .00290 | .0115 | .00019 |
| %RSD | .12077 | .59549 | 4.7775 | 55.696 | .08521 | 134.07 | 175.67 | .95529 | 18.529 |
| #1 | 436.15 | .00670 | .01733 | .00128 | 54.253 | .00249 | -.00040 | 1.1988 | -.00117 |
| #2 | 436.89 | .00664 | .01620 | .00056 | 54.319 | .00007 | .00370 | 1.2151 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.8467** | **.00052** | **-.00037** | **-.00393** | **-.01754** | **-.00033** | **.00414** | **-.00208** |
| Stddev | .0165 | .00345 | .00035 | .00141 | .04137 | .00048 | .00016 | .00011 |
| %RSD | .28304 | 665.63 | 94.740 | 35.800 | 235.87 | 144.29 | 3.8182 | 5.3237 |
| #1 | 5.8584 | .00296 | -.00061 | -.00294 | -.04679 | .00001 | .00425 | -.00216 |
| #2 | 5.8350 | -.00192 | -.00012 | -.00493 | .01171 | -.00068 | .00403 | -.00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5914.8** | **79694.** | **5238.9** |
| Stddev | 1.8 | 140. | 26.3 |
| %RSD | .02973 | .17514 | .50231 |
| #1 | 5913.5 | 79793. | 5257.5 |
| #2 | 5916.0 | 79596. | 5220.3 |

Sample Name: 280-42290-C-1-B Acquired: 5/21/2013 17:04:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174869 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.01301** | **.00003** | **.11624** | **.08226** | **-.00003** | **.00037** | **1.5957** | **.00018** |
| Stddev | .00024 | .00071 | .00141 | .00015 | .00004 | .00005 | .00219 | .0032 | .00002 |
| %RSD | 273.52 | 5.4456 | 4949.0 | .12920 | .04587 | 172.19 | 595.65 | .19758 | 9.6474 |
| #1 | .00008 | .01351 | .00102 | .11635 | .08229 | -.00007 | .00192 | 1.5980 | .00019 |
| #2 | -.00026 | .01250 | -.00097 | .11613 | .08223 | .00001 | -.00118 | 1.5935 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.00033** | **-.00006** | **.26765** | **1.1449** | **.03212** | **.14743** | **.01426** | **.00011** |
| Stddev | .00025 | .00014 | .00015 | .00152 | .0222 | .00066 | .00179 | .00001 | .00020 |
| %RSD | 175.04 | 42.449 | 267.57 | .56734 | 1.9387 | 2.0646 | 1.2110 | .08046 | 184.55 |
| #1 | .00003 | .00023 | -.00017 | .26658 | 1.1292 | .03165 | .14869 | .01427 | .00025 |
| #2 | -.00032 | .00043 | .00005 | .26873 | 1.1606 | .03259 | .14616 | .01425 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **282.17** | **-.00008** | **.03026** | **.00017** | **.31903** | **.00175** | **-.00265** | **7.3432** | **.00062** |
| Stddev | 2.74 | .00014 | .00003 | .00064 | .00404 | .00047 | .00481 | .0062 | .00111 |
| %RSD | .96965 | 183.71 | .08319 | 371.74 | 1.2679 | 27.036 | 181.40 | .08457 | 177.07 |
| #1 | 284.11 | -.00018 | .03028 | -.00028 | .32189 | .00142 | -.00605 | 7.3476 | .00141 |
| #2 | 280.24 | .00002 | .03024 | .00062 | .31617 | .00209 | .00075 | 7.3389 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23423** | **.00123** | **.00047** | **.00156** | **.02420** | **.00038** | **.00315** | **.00018** |
| Stddev | .00233 | .00003 | .00024 | .00068 | .01426 | .00049 | .00045 | .00088 |
| %RSD | .99534 | 2.6322 | 49.791 | 43.403 | 58.918 | 127.49 | 14.323 | 486.64 |
| #1 | .23588 | .00126 | .00031 | .00204 | .01412 | .00073 | .00347 | .00080 |
| #2 | .23258 | .00121 | .00064 | .00108 | .03428 | .00004 | .00283 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6396.0** | **85001.** | **5435.5** |
| Stddev | 22.6 | 340. | 60.3 |
| %RSD | .35319 | .39982 | 1.1094 |
| #1 | 6380.0 | 84760. | 5392.9 |
| #2 | 6411.9 | 85241. | 5478.2 |

Sample Name: 280-42290-C-1-Bsd@5 Acquired: 5/21/2013 17:06:50 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174869 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00333** | **.00092** | **.02694** | **.01797** | **-.00015** | **-.00062** | **.34686** | **-.00004** |
| Stddev | .00040 | .00057 | .00209 | .00031 | .00009 | .00002 | .00130 | .00688 | .00008 |
| %RSD | 76.345 | 17.107 | 227.20 | 1.1439 | .52294 | 12.491 | 208.96 | 1.9846 | 178.80 |
| #1 | .00024 | .00292 | .00240 | .02716 | .01803 | -.00017 | .00030 | .34199 | .00001 |
| #2 | .00081 | .00373 | -.00056 | .02672 | .01790 | -.00014 | -.00154 | .35173 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **-.00002** | **-.00079** | **.06806** | **.31259** | **.00547** | **.03226** | **.00328** | **-.00004** |
| Stddev | .00018 | .00017 | .00014 | .00145 | .00733 | .00052 | .00167 | .00004 | .00014 |
| %RSD | 310.80 | 833.72 | 17.162 | 2.1352 | 2.3434 | 9.4795 | 5.1702 | 1.2612 | 310.02 |
| #1 | .00018 | .00010 | -.00089 | .06909 | .31777 | .00510 | .03108 | .00331 | .00005 |
| #2 | -.00007 | -.00014 | -.00069 | .06703 | .30741 | .00584 | .03344 | .00325 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **62.491** | **-.00024** | **.00882** | **-.00090** | **.06897** | **-.00068** | **-.00027** | **1.5622** | **.00027** |
| Stddev | .125 | .00004 | .00054 | .00002 | .00161 | .00196 | .00304 | .0155 | .00037 |
| %RSD | .19934 | 16.346 | 6.1059 | 2.4954 | 2.3334 | 289.23 | 1127.0 | .98900 | 139.71 |
| #1 | 62.403 | -.00026 | .00844 | -.00092 | .06783 | .00071 | -.00242 | 1.5513 | .00000 |
| #2 | 62.579 | -.00021 | .00920 | -.00088 | .07011 | -.00206 | .00188 | 1.5731 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05159** | **.00186** | **.00009** | **.00163** | **-.02583** | **-.00044** | **.00383** | **.00001** |
| Stddev | .00011 | .00056 | .00012 | .00052 | .00638 | .00010 | .00018 | .00118 |
| %RSD | .21774 | 29.972 | 137.53 | 31.652 | 24.698 | 21.861 | 4.6617 | 10087. |
| #1 | .05167 | .00225 | .00017 | .00127 | -.03034 | -.00037 | .00396 | .00085 |
| #2 | .05151 | .00146 | .00000 | .00200 | -.02132 | -.00051 | .00370 | -.00082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6616.4** | **89090.** | **5588.6** |
| Stddev | 24.0 | 61. | 15.6 |
| %RSD | .36219 | .06853 | .27920 |
| #1 | 6599.4 | 89047. | 5577.6 |
| #2 | 6633.3 | 89134. | 5599.6 |

Sample Name: 280-42290-C-1-C MS  Acquired: 5/21/2013 17:09:20  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174869  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05429** | **1.8451** | **.97192** | **1.0642** | **2.0897** | **.04704** | **2.0303** | **49.917** | **.10244** |
| Stddev | .00083 | .0001 | .00064 | .0001 | .0020 | .00025 | .0003 | .068 | .00018 |
| %RSD | 1.5282 | .00435 | .06617 | .01137 | .09711 | .53992 | .01354 | .13612 | .17332 |
| #1 | .05488 | 1.8451 | .97147 | 1.0642 | 2.0911 | .04722 | 2.0301 | 49.869 | .10256 |
| #2 | .05370 | 1.8450 | .97237 | 1.0641 | 2.0883 | .04686 | 2.0305 | 49.965 | .10231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49358** | **.19454** | **.24288** | **1.2192** | **51.290** | **1.0257** | **47.335** | **.50011** | **.96534** |
| Stddev | .00023 | .00026 | .00167 | .0010 | .218 | .0006 | .266 | .00225 | .00106 |
| %RSD | .04569 | .13207 | .68889 | .08202 | .42552 | .06197 | .56235 | .44951 | .10937 |
| #1 | .49342 | .19436 | .24407 | 1.2185 | 51.136 | 1.0252 | 47.523 | .50170 | .96460 |
| #2 | .49374 | .19472 | .24170 | 1.2199 | 51.445 | 1.0261 | 47.146 | .49852 | .96609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **340.39** | **.48055** | **9.7240** | **.48687** | **.20363** | **.50244** | **1.8839** | **17.349** | **1.9074** |
| Stddev | .57 | .00004 | .0068 | .00099 | .00350 | .00193 | .0012 | .064 | .0027 |
| %RSD | .16647 | .00928 | .06951 | .20397 | 1.7194 | .38421 | .06218 | .37136 | .14091 |
| #1 | 340.79 | .48058 | 9.7287 | .48757 | .20116 | .50108 | 1.8847 | 17.303 | 1.9093 |
| #2 | 339.99 | .48052 | 9.7192 | .48617 | .20611 | .50381 | 1.8831 | 17.394 | 1.9055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1954** | **1.0177** | **.99661** | **1.8973** | **2.0674** | **.48701** | **.49222** | **.48413** |
| Stddev | .0013 | .0013 | .00400 | .0013 | .0259 | .00222 | .00112 | .00107 |
| %RSD | .10918 | .12497 | .40174 | .06868 | 1.2546 | .45591 | .22762 | .22138 |
| #1 | 1.1963 | 1.0186 | .99944 | 1.8982 | 2.0491 | .48858 | .49301 | .48489 |
| #2 | 1.1945 | 1.0168 | .99378 | 1.8964 | 2.0857 | .48544 | .49143 | .48337 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6291.0** | **84477.** | **5530.4** |
| Stddev | 1.4 | 576. | 10.8 |
| %RSD | .02281 | .68226 | .19509 |
| #1 | 6290.0 | 84070. | 5538.0 |
| #2 | 6292.1 | 84885. | 5522.7 |

Sample Name: 280-42290-C-1-D MSD  Acquired: 5/21/2013 17:11:39  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174869  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05241** | **1.7580** | **.92626** | **1.0192** | **1.9877** | **.04480** | **1.9474** | **47.659** | **.09751** |
| Stddev | .00020 | .0065 | .00091 | .0049 | .0084 | .00021 | .0097 | .081 | .00041 |
| %RSD | .38104 | .37051 | .09859 | .48137 | .42527 | .47693 | .49989 | .16988 | .42350 |
| #1 | .05227 | 1.7626 | .92561 | 1.0226 | 1.9937 | .04495 | 1.9543 | 47.716 | .09780 |
| #2 | .05255 | 1.7534 | .92691 | 1.0157 | 1.9817 | .04465 | 1.9405 | 47.602 | .09722 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46760** | **.18426** | **.23103** | **1.1935** | **49.046** | **.97874** | **45.283** | **.47819** | **.91837** |
| Stddev | .00174 | .00071 | .00042 | .0026 | .065 | .00003 | .021 | .00024 | .00428 |
| %RSD | .37251 | .38745 | .17990 | .21691 | .13266 | .00269 | .04680 | .05027 | .46558 |
| #1 | .46884 | .18477 | .23074 | 1.1954 | 49.092 | .97876 | 45.268 | .47802 | .92140 |
| #2 | .46637 | .18376 | .23133 | 1.1917 | 49.000 | .97872 | 45.298 | .47836 | .91535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **327.05** | **.45607** | **9.2572** | **.46583** | **.19560** | **.47641** | **1.7910** | **16.753** | **1.8194** |
| Stddev | 1.78 | .00250 | .0416 | .00027 | .00369 | .00094 | .0086 | .037 | .0130 |
| %RSD | .54342 | .54902 | .44900 | .05718 | 1.8874 | .19704 | .48109 | .22202 | .71292 |
| #1 | 328.30 | .45784 | 9.2866 | .46564 | .19821 | .47575 | 1.7971 | 16.780 | 1.8286 |
| #2 | 325.79 | .45430 | 9.2278 | .46602 | .19299 | .47708 | 1.7849 | 16.727 | 1.8103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1405** | **.97042** | **.95395** | **1.8184** | **1.9622** | **.46656** | **.47070** | **.46027** |
| Stddev | .0050 | .00000 | .00057 | .0088 | .0051 | .00076 | .00150 | .00271 |
| %RSD | .43498 | .00047 | .05931 | .48614 | .26085 | .16311 | .31851 | .58895 |
| #1 | 1.1440 | .97043 | .95355 | 1.8246 | 1.9586 | .46710 | .47176 | .46218 |
| #2 | 1.1370 | .97042 | .95435 | 1.8121 | 1.9658 | .46602 | .46964 | .45835 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6262.1** | **83531.** | **5438.8** |
| Stddev | 25.3 | 469. | 39.1 |
| %RSD | .40428 | .56087 | .71910 |
| #1 | 6244.2 | 83862. | 5411.2 |
| #2 | 6280.0 | 83199. | 5466.5 |

Sample Name: 280-42260-D-2-B Acquired: 5/21/2013 17:13:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174875 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00626** | **-.00182** | **.02367** | **.10214** | **-.00008** | **-.00079** | **95.644** | **.00017** |
| Stddev | .00014 | .00020 | .00054 | .00050 | .00010 | .00005 | .00047 | .157 | .00024 |
| %RSD | 117.09 | 3.2596 | 29.672 | 2.1311 | .10123 | 63.839 | 58.869 | .16444 | 136.86 |
| #1 | -.00002 | .00640 | -.00144 | .02402 | .10206 | -.00005 | -.00046 | 95.533 | .00034 |
| #2 | -.00022 | .00611 | -.00220 | .02331 | .10221 | -.00012 | -.00112 | 95.755 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00002** | **-.00002** | **.07098** | **2.3899** | **.00294** | **24.575** | **.03358** | **.00108** |
| Stddev | .00008 | .00012 | .00076 | .00025 | .0329 | .00188 | .055 | .00001 | .00021 |
| %RSD | 52.093 | 731.49 | 5039.7 | .35306 | 1.3751 | 64.004 | .22506 | .04237 | 19.727 |
| #1 | .00021 | -.00007 | -.00055 | .07116 | 2.4132 | .00161 | 24.614 | .03357 | .00123 |
| #2 | .00010 | .00010 | .00052 | .07080 | 2.3667 | .00428 | 24.536 | .03359 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **85.347** | **.00028** | **.23072** | **.00112** | **35.286** | **.00003** | **.00114** | **4.7914** | **-.00039** |
| Stddev | .862 | .00001 | .00092 | .00205 | .063 | .00142 | .00420 | .0329 | .00078 |
| %RSD | 1.0095 | 5.2137 | .39785 | 182.08 | .17714 | 4064.3 | 368.59 | .68646 | 202.44 |
| #1 | 84.738 | .00029 | .23007 | -.00032 | 35.330 | .00104 | .00411 | 4.7681 | -.00094 |
| #2 | 85.956 | .00027 | .23137 | .00257 | 35.242 | -.00097 | -.00183 | 4.8146 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2796** | **-.00002** | **.00074** | **.00183** | **-.02013** | **.00020** | **.01005** | **-.00024** |
| Stddev | .0032 | .00135 | .00037 | .00036 | .01452 | .00033 | .00030 | .00039 |
| %RSD | .25043 | 8407.7 | 49.143 | 19.696 | 72.112 | 161.36 | 3.0187 | 160.92 |
| #1 | 1.2819 | .00094 | .00049 | .00208 | -.03040 | .00044 | .00983 | .00003 |
| #2 | 1.2773 | -.00097 | .00100 | .00157 | -.00987 | -.00003 | .01026 | -.00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6357.0** | **86220.** | **5449.7** |
| Stddev | 35.1 | 96. | 31.4 |
| %RSD | .55232 | .11119 | .57614 |
| #1 | 6381.9 | 86153. | 5427.5 |
| #2 | 6332.2 | 86288. | 5471.9 |

Sample Name: 280-42260-D-2-Bsd@5 Acquired: 5/21/2013 17:16:23 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174875 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00251** | **.00183** | **.00685** | **.02414** | **-.00017** | **-.00149** | **22.319** | **.00002** |
| Stddev | .00039 | .00052 | .00322 | .00011 | .00021 | .00001 | .00035 | .107 | .00004 |
| %RSD | 652.57 | 20.703 | 176.06 | 1.6229 | .86473 | 3.7881 | 23.158 | .48003 | 169.56 |
| #1 | -.00034 | .00214 | .00410 | .00693 | .02400 | -.00017 | -.00125 | 22.243 | .00005 |
| #2 | .00022 | .00288 | -.00045 | .00678 | .02429 | -.00016 | -.00174 | 22.395 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00002** | **-.00087** | **.01796** | **.61675** | **.00043** | **5.8541** | **.00799** | **.00024** |
| Stddev | .00030 | .00002 | .00010 | .00012 | .01571 | .00066 | .0026 | .00004 | .00029 |
| %RSD | 131.26 | 106.73 | 11.564 | .69111 | 2.5475 | 155.78 | .04360 | .56273 | 122.04 |
| #1 | .00045 | .00000 | -.00094 | .01805 | .60564 | .00089 | 5.8559 | .00803 | .00003 |
| #2 | .00002 | .00003 | -.00080 | .01787 | .62786 | -.00004 | 5.8523 | .00796 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.197** | **-.00004** | **.05416** | **-.00077** | **7.8739** | **.00037** | **.00093** | **1.0829** | **-.00002** |
| Stddev | .299 | .00001 | .00017 | .00084 | .0340 | .00074 | .00123 | .0038 | .00050 |
| %RSD | 1.4789 | 28.992 | .31000 | 109.15 | .43175 | 198.52 | 131.52 | .35025 | 3111.3 |
| #1 | 20.409 | -.00005 | .05404 | -.00017 | 7.8499 | .00090 | .00007 | 1.0856 | -.00037 |
| #2 | 19.986 | -.00004 | .05428 | -.00136 | 7.8979 | -.00015 | .00180 | 1.0802 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29760** | **.00098** | **.00030** | **.00210** | **-.02223** | **.00002** | **.00535** | **.00030** |
| Stddev | .00120 | .00125 | .00026 | .00042 | .04138 | .00021 | .00002 | .00008 |
| %RSD | .40296 | 127.66 | 86.674 | 20.079 | 186.16 | 1002.7 | .42267 | 26.600 |
| #1 | .29675 | .00009 | .00012 | .00240 | -.05148 | -.00013 | .00533 | .00036 |
| #2 | .29845 | .00186 | .00048 | .00180 | .00703 | .00017 | .00536 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6588.8** | **88549.** | **5508.8** |
| Stddev | 6.6 | 275. | 5.6 |
| %RSD | .09944 | .31070 | .10094 |
| #1 | 6584.2 | 88355. | 5504.9 |
| #2 | 6593.5 | 88744. | 5512.8 |

Sample Name: 280-42260-D-2-C MS  Acquired: 5/21/2013 17:18:51  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174875  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05277** | **1.7190** | **.92460** | **.94026** | **1.9578** | **.04383** | **1.9566** | **135.61** | **.09761** |
| Stddev | .00037 | .0014 | .00335 | .00114 | .0002 | .00040 | .0003 | .30 | .00013 |
| %RSD | .70188 | .08397 | .36221 | .12082 | .01035 | .91108 | .01387 | .21827 | .13662 |
| #1 | .05251 | 1.7200 | .92697 | .93945 | 1.9580 | .04411 | 1.9564 | 135.82 | .09770 |
| #2 | .05303 | 1.7180 | .92223 | .94106 | 1.9577 | .04355 | 1.9568 | 135.40 | .09751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45867** | **.18127** | **.22804** | **.92569** | **49.388** | **.94129** | **68.188** | **.48588** | **.91487** |
| Stddev | .00038 | .00016 | .00051 | .00342 | .169 | .00405 | .102 | .00060 | .00048 |
| %RSD | .08308 | .08874 | .22536 | .36998 | .34264 | .43054 | .14911 | .12254 | .05205 |
| #1 | .45894 | .18138 | .22841 | .92811 | 49.508 | .94416 | 68.260 | .48631 | .91453 |
| #2 | .45840 | .18115 | .22768 | .92327 | 49.268 | .93842 | 68.116 | .48546 | .91520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **127.55** | **.44623** | **9.4995** | **.46225** | **34.602** | **.48155** | **1.8398** | **13.820** | **1.8090** |
| Stddev | .01 | .00035 | .0136 | .00013 | .053 | .00279 | .0037 | .002 | .0022 |
| %RSD | .01017 | .07783 | .14266 | .02777 | .15248 | .57895 | .19830 | .01216 | .11893 |
| #1 | 127.55 | .44648 | 9.5091 | .46234 | 34.639 | .48352 | 1.8424 | 13.819 | 1.8075 |
| #2 | 127.56 | .44599 | 9.4900 | .46216 | 34.565 | .47958 | 1.8372 | 13.821 | 1.8105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1078** | **.94722** | **.93702** | **1.8458** | **1.9149** | **.45733** | **.45695** | **.45331** |
| Stddev | .0095 | .00358 | .00008 | .0023 | .0315 | .00077 | .00006 | .00007 |
| %RSD | .45240 | .37792 | .00870 | .12701 | 1.6437 | .16770 | .01319 | .01592 |
| #1 | 2.1145 | .94468 | .93696 | 1.8475 | 1.9372 | .45788 | .45691 | .45336 |
| #2 | 2.1011 | .94975 | .93708 | 1.8442 | 1.8926 | .45679 | .45699 | .45326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6330.8** | **85536.** | **5513.9** |
| Stddev | 6.0 | 288. | 8.1 |
| %RSD | .09556 | .33727 | .14705 |
| #1 | 6335.0 | 85332. | 5508.2 |
| #2 | 6326.5 | 85740. | 5519.7 |

Sample Name: 280-42260-D-2-D MSD  Acquired: 5/21/2013 17:21:04  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174875  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05092** | **1.6873** | **.90445** | **.92728** | **1.9160** | **.04286** | **1.9113** | **130.95** | **.09545** |
| Stddev | .00040 | .0075 | .00165 | .00003 | .0012 | .00031 | .0015 | .25 | .00010 |
| %RSD | .79349 | .44324 | .18276 | .00302 | .06456 | .71897 | .07866 | .19472 | .10650 |
| #1 | .05120 | 1.6926 | .90562 | .92726 | 1.9152 | .04308 | 1.9102 | 130.77 | .09537 |
| #2 | .05063 | 1.6820 | .90328 | .92730 | 1.9169 | .04264 | 1.9124 | 131.13 | .09552 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44926** | **.17762** | **.22235** | **.91554** | **48.093** | **.91781** | **66.171** | **.47421** | **.89756** |
| Stddev | .00002 | .00036 | .00023 | .00428 | .083 | .00177 | .112 | .00017 | .00032 |
| %RSD | .00423 | .20196 | .10301 | .46792 | .17307 | .19233 | .16855 | .03594 | .03569 |
| #1 | .44925 | .17787 | .22219 | .91857 | 48.034 | .91657 | 66.250 | .47433 | .89778 |
| #2 | .44927 | .17737 | .22251 | .91251 | 48.152 | .91906 | 66.092 | .47409 | .89733 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **123.78** | **.43681** | **9.2806** | **.45487** | **33.302** | **.47368** | **1.8045** | **13.486** | **1.7761** |
| Stddev | .41 | .00076 | .0154 | .00009 | .026 | .00025 | .0083 | .026 | .0012 |
| %RSD | .32939 | .17486 | .16592 | .01929 | .07947 | .05307 | .46083 | .19270 | .06917 |
| #1 | 124.07 | .43735 | 9.2915 | .45481 | 33.321 | .47351 | 1.7986 | 13.505 | 1.7769 |
| #2 | 123.49 | .43627 | 9.2697 | .45494 | 33.283 | .47386 | 1.8104 | 13.468 | 1.7752 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0378** | **.92882** | **.91970** | **1.8072** | **1.9034** | **.44470** | **.44605** | **.44265** |
| Stddev | .0057 | .00064 | .00170 | .0003 | .0092 | .00122 | .00016 | .00310 |
| %RSD | .27877 | .06907 | .18502 | .01861 | .48538 | .27528 | .03573 | .69922 |
| #1 | 2.0418 | .92836 | .92090 | 1.8074 | 1.9100 | .44557 | .44594 | .44484 |
| #2 | 2.0337 | .92927 | .91850 | 1.8070 | 1.8969 | .44384 | .44616 | .44046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6310.8** | **85574.** | **5485.4** |
| Stddev | 8.3 | 65. | 12.5 |
| %RSD | .13092 | .07627 | .22807 |
| #1 | 6305.0 | 85620. | 5476.5 |
| #2 | 6316.6 | 85528. | 5494.2 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 17:23:16 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **49.767** | **.00097** | **.00509** | **.00036** | **-.00010** | **.99649** | **.00867** | **-.00089** | **.00196** | **.00003** | **.00070** | **49.282** |
| Stddev | .00080 | .400 | .00165 | .00046 | .00032 | .00011 | .00218 | .00474 | .00005 | .00024 | .00015 | .00019 | .286 |
| %RSD | 40.430 | .80335 | 170.79 | 9.0987 | 89.208 | 103.69 | .21883 | 54.713 | 5.1661 | 12.264 | 533.33 | 26.672 | .57979 |
| #1 | .00142 | 50.050 | .00214 | .00542 | .00013 | -.00003 | .99803 | .01202 | -.00093 | .00179 | .00013 | .00083 | 49.484 |
| #2 | .00256 | 49.484 | -.00020 | .00476 | .00059 | -.00018 | .99495 | .00531 | -.00086 | .00213 | -.00008 | .00056 | 49.080 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11894** | **-.00136** | **.00036** | **-.00062** | **-.00175** | **250.57** | **.00107** | **.00945** | **.00141** | **4.9681** | **-.00047** | **.00254** | **.02834** |
| Stddev | .01456 | .00032 | .00119 | .00004 | .00003 | 2.39 | .00023 | .00022 | .00156 | .0161 | .00212 | .00126 | .01240 |
| %RSD | 12.242 | 23.799 | 330.69 | 6.6656 | 1.5906 | .95312 | 21.489 | 2.3203 | 110.46 | .32493 | 455.26 | 49.762 | 43.758 |
| #1 | .10865 | -.00159 | -.00048 | -.00065 | -.00173 | 252.26 | .00123 | .00930 | .00031 | 4.9795 | .00103 | .00344 | .01957 |
| #2 | .12924 | -.00113 | .00120 | -.00059 | -.00177 | 248.88 | .00091 | .00961 | .00251 | 4.9567 | -.00197 | .00165 | .03711 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **.00019** | **5.0978** | **.00297** | **-.00022** | **10.009** | **-.00064** | **.00303** | **-.03915** |
| Stddev | .00008 | .00011 | .0069 | .00002 | .00014 | .013 | .00003 | .00052 | .00384 |
| %RSD | 10.190 | 58.857 | .13571 | .52988 | 62.340 | .12669 | 4.9578 | 17.292 | 9.7995 |
| #1 | .00082 | .00027 | 5.1027 | .00298 | -.00012 | 10.018 | -.00066 | .00266 | -.03644 |
| #2 | .00071 | .00011 | 5.0929 | .00296 | -.00032 | 10.000 | -.00061 | .00340 | -.04186 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6399.3** | **86400.** | **5419.8** |
| Stddev | 23.4 | 97. | 55.0 |
| %RSD | .36589 | .11283 | 1.0155 |
| #1 | 6415.9 | 86331. | 5380.9 |
| #2 | 6382.8 | 86469. | 5458.7 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 17:25:39 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51620** | **.49696** | **.98392** | **.49015** | **.50229** | **.47250** | **.00290** | **4.9812** | **.51014** | **.51368** | **.49535** | **.48939** | **2.4469** | **50.427** |
| Stddev | .00032 | .00211 | .00420 | .00094 | .00273 | .00348 | .00216 | .0160 | .00037 | .00049 | .00041 | .00088 | .0075 | .285 |
| %RSD | .06288 | .42404 | .42642 | .19193 | .54301 | .73617 | 74.246 | .32224 | .07164 | .09532 | .08345 | .18001 | .30445 | .56561 |
| #1 | .51597 | .49845 | .98689 | .48948 | .50422 | .47496 | .00138 | 4.9925 | .50989 | .51334 | .49506 | .48877 | 2.4522 | 50.629 |
| #2 | .51643 | .49547 | .98096 | .49081 | .50036 | .47004 | .00443 | 4.9698 | .51040 | .51403 | .49564 | .49001 | 2.4417 | 50.226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0125** | **19.770** | **.50261** | **.49320** | **5.1546** | **.50430** | **.96094** | **1.0277** | **.00964** | **1.0147** | **.97379** | **4.8571** | **.99476** | **.48136** |
| Stddev | .0087 | .022 | .00084 | .00033 | .0533 | .00174 | .00355 | .0040 | .00207 | .0026 | .00360 | .0266 | .00283 | .00337 |
| %RSD | .85571 | .11380 | .16680 | .06683 | 1.0347 | .34423 | .36936 | .38804 | 21.489 | .25095 | .36962 | .54785 | .28464 | .70085 |
| #1 | 1.0187 | 19.754 | .50202 | .49343 | 5.1923 | .50552 | .96345 | 1.0305 | .01111 | 1.0165 | .97633 | 4.8759 | .99677 | .48374 |
| #2 | 1.0064 | 19.786 | .50320 | .49297 | 5.1169 | .50307 | .95843 | 1.0249 | .00818 | 1.0129 | .97124 | 4.8383 | .99276 | .47897 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00074** | **.50668** | **1.0225** | **.00958** | **.48685** | **.50106** | **.49775** |
| Stddev | .00130 | .00134 | .0017 | .03339 | .00078 | .00132 | .00127 |
| %RSD | 175.30 | .26418 | .16807 | 348.74 | .15997 | .26264 | .25575 |
| #1 | -.00018 | .50574 | 1.0237 | -.01404 | .48630 | .50199 | .49685 |
| #2 | .00166 | .50763 | 1.0213 | .03319 | .48740 | .50013 | .49865 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6588.4** | **88302.** | **5490.9** |
| Stddev | 3.6 | 42. | 37.3 |
| %RSD | .05480 | .04724 | .67865 |
| #1 | 6585.9 | 88272. | 5464.5 |
| #2 | 6591.0 | 88331. | 5517.2 |

Sample Name: CCB Acquired: 5/21/2013 17:27:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **-.00054** | **.00226** | W **.00280** | **.00009** | **-.00003** | **-.00059** | **.00065** | **.00001** | **-.00008** | **-.00008** |
| Stddev | .00011 | .00035 | .00211 | .00011 | .00015 | .00012 | .00162 | .00007 | .00001 | .00006 | .00018 |
| %RSD | 17.441 | 63.470 | 93.336 | 4.0260 | 169.65 | 406.39 | 274.17 | 11.000 | 63.534 | 78.161 | 231.36 |
| #1 | .00053 | -.00079 | .00375 | .00272 | .00019 | .00005 | -.00174 | .00070 | .00002 | -.00012 | .00005 |
| #2 | .00068 | -.00030 | .00077 | .00288 | -.00002 | -.00011 | .00056 | .00060 | .00001 | -.00003 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00088** | **.00117** | **.04670** | **-.00005** | **-.00032** | **.00016** | **.00020** | F **.12573** | **-.00025** | **.00233** | **.00065** |
| Stddev | .00023 | .00092 | .00150 | .00134 | .00175 | .00003 | .00041 | .01014 | .00020 | .00183 | .00087 |
| %RSD | 26.495 | 79.202 | 3.2213 | 2598.2 | 538.64 | 21.164 | 209.62 | 8.0628 | 80.169 | 78.509 | 133.61 |
| #1 | -.00071 | .00182 | .04564 | .00089 | -.00156 | .00014 | -.00009 | .11856 | -.00011 | .00104 | .00126 |
| #2 | -.00104 | .00051 | .04777 | -.00100 | .00091 | .00019 | .00049 | .13290 | -.00039 | .00362 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00531** | W **.00427** | **-.00284** | **-.00813** | **.00011** | **-.00001** | **-.00010** | **.00003** | **.00064** | **-.01915** | **-.00069** |
| Stddev | .00107 | .00118 | .00136 | .01392 | .00012 | .00007 | .00060 | .00004 | .00010 | .00696 | .00040 |
| %RSD | 20.147 | 27.746 | 47.931 | 171.27 | 106.85 | 611.01 | 598.38 | 157.86 | 15.497 | 36.364 | 57.694 |
| #1 | .00606 | .00343 | -.00187 | -.01797 | .00019 | -.00006 | -.00053 | -.00000 | .00071 | -.02408 | -.00097 |
| #2 | .00455 | .00510 | -.00380 | .00172 | .00003 | .00004 | .00033 | .00006 | .00057 | -.01423 | -.00041 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00284** | **-.00014** |
| Stddev | .00017 | .00083 |
| %RSD | 5.9845 | 600.85 |
| #1 | .00272 | .00045 |
| #2 | .00296 | -.00072 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6583.6** | **89064.** | **5529.3** |
| Stddev | 30.7 | 448. | 18.1 |
| %RSD | .46567 | .50260 | .32794 |
| #1 | 6605.2 | 88748. | 5516.5 |
| #2 | 6561.9 | 89381. | 5542.1 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 17:30:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01089** | **.10188** | **.01725** | **.09852** | **.01045** | **.00082** | **.10734** | **.20205** | **.00536** | **.01052** | **.01010** |
| Stddev | .00000 | .00031 | .00200 | .00000 | .00019 | .00013 | .00036 | .00116 | .00015 | .00002 | .00011 |
| %RSD | .01046 | .30215 | 11.601 | .00293 | 1.8474 | 15.672 | .33073 | .57397 | 2.7187 | .17628 | 1.1068 |
| #1 | .01089 | .10166 | .01866 | .09851 | .01031 | .00073 | .10709 | .20287 | .00546 | .01054 | .01003 |
| #2 | .01089 | .10209 | .01583 | .09852 | .01059 | .00091 | .10759 | .20123 | .00526 | .01051 | .01018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01451** | **.10325** | **3.1490** | **.01005** | **.20677** | **.01054** | **.02019** | **1.1390** | **.04106** | **2.8486** | **.00939** |
| Stddev | .00017 | .00079 | .0157 | .00286 | .00188 | .00003 | .00018 | .0004 | .00012 | .0114 | .00092 |
| %RSD | 1.1555 | .76680 | .49996 | 28.497 | .91116 | .25048 | .90959 | .03170 | .29976 | .39966 | 9.7896 |
| #1 | .01439 | .10269 | 3.1379 | .00802 | .20543 | .01053 | .02006 | 1.1388 | .04115 | 2.8405 | .00874 |
| #2 | .01463 | .10381 | 3.1602 | .01207 | .20810 | .01056 | .02032 | 1.1393 | .04097 | 2.8566 | .01004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00891** | W **.01269** | **.01549** | **.49065** | **.10119** | **.00989** | **.01590** | **.01029** | **.01724** | **.06433** | **.00975** |
| Stddev | .00030 | .00041 | .00105 | .00687 | .00033 | .00010 | .00008 | .00017 | .00203 | .03626 | .00025 |
| %RSD | 3.4072 | 3.2558 | 6.8026 | 1.4002 | .32983 | 1.0538 | .52227 | 1.6734 | 11.796 | 56.363 | 2.5493 |
| #1 | .00912 | .01239 | .01623 | .49550 | .10142 | .00996 | .01584 | .01041 | .01581 | .08997 | .00993 |
| #2 | .00869 | .01298 | .01474 | .48579 | .10095 | .00981 | .01596 | .01016 | .01868 | .03869 | .00957 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | |
| Range | | 20.000% | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02360** | **.01575** |
| Stddev | .00051 | .00169 |
| %RSD | 2.1645 | 10.760 |
| #1 | .02323 | .01695 |
| #2 | .02396 | .01455 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6603.4** | **89368.** | **5544.3** |
| Stddev | 3.5 | 368. | 10.0 |
| %RSD | .05245 | .41133 | .18007 |
| #1 | 6605.9 | 89109. | 5551.4 |
| #2 | 6601.0 | 89628. | 5537.3 |

Sample Name: MB 280-173887/1-A Acquired: 5/21/2013 17:32:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **.00733** | **.00054** | **.00218** | **.00039** | **-.00007** | **-.00050** | **.01645** | **.00007** |
| Stddev | .00024 | .00022 | .00230 | .00083 | .00025 | .00002 | .00210 | .00336 | .00019 |
| %RSD | 38.873 | 2.9350 | 427.37 | 38.132 | 65.210 | 34.330 | 420.03 | 20.399 | 286.23 |
| #1 | .00046 | .00718 | .00216 | .00277 | .00021 | -.00005 | .00098 | .01882 | .00020 |
| #2 | .00080 | .00749 | -.00109 | .00159 | .00057 | -.00008 | -.00198 | .01408 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **-.00004** | **-.00042** | W **.04968** | **-.00843** | **-.00230** | **.00500** | **.00038** | **.00019** |
| Stddev | .00018 | .00001 | .00008 | .00110 | .02466 | .00041 | .00142 | .00009 | .00015 |
| %RSD | 260.85 | 16.578 | 18.829 | 2.2136 | 292.52 | 17.774 | 28.403 | 24.199 | 81.146 |
| #1 | .00006 | -.00004 | -.00037 | .04891 | .00901 | -.00201 | .00600 | .00031 | .00030 |
| #2 | -.00020 | -.00005 | -.00048 | .05046 | -.02586 | -.00259 | .00399 | .00044 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07394** | **-.00026** | F **.22456** | **.00055** | **.00775** | **.00077** | **.00081** | **.03800** | **-.00013** |
| Stddev | .01059 | .00034 | .00187 | .00004 | .00078 | .00112 | .00239 | .00558 | .00041 |
| %RSD | 14.325 | 127.17 | .83316 | 7.1011 | 10.073 | 144.83 | 296.73 | 14.682 | 302.55 |
| #1 | .06645 | -.00050 | .22588 | .00052 | .00830 | .00156 | .00250 | .03405 | .00015 |
| #2 | .08143 | -.00003 | .22324 | .00058 | .00720 | -.00002 | -.00089 | .04194 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00017** | **.00037** | **.00056** | **.00806** | **-.00014** | W **.00705** | **.00097** |
| Stddev | .00007 | .00026 | .00028 | .00021 | .04050 | .00022 | .00041 | .00070 |
| %RSD | 414.67 | 153.05 | 74.669 | 36.383 | 502.39 | 153.19 | 5.7915 | 72.010 |
| #1 | -.00003 | .00036 | .00057 | .00071 | .03670 | -.00030 | .00677 | .00147 |
| #2 | .00006 | -.00001 | .00018 | .00042 | -.02057 | .00001 | .00734 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00500 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6671.9** | **90587.** | **5651.1** |
| Stddev | 11.1 | 513. | 21.3 |
| %RSD | .16593 | .56628 | .37781 |
| #1 | 6664.0 | 90225. | 5666.2 |
| #2 | 6679.7 | 90950. | 5636.0 |

Sample Name: LCS 280-173887/2-A Acquired: 5/21/2013 17:35:17 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05431** | **1.9123** | **.98671** | **1.0067** | **2.0652** | **.04836** | **2.0898** | **49.563** | **.10510** |
| Stddev | .00032 | .0029 | .00227 | .0013 | .0131 | .00037 | .0008 | .427 | .00011 |
| %RSD | .59442 | .15356 | .23033 | .12988 | .63362 | .76692 | .03845 | .86186 | .10151 |
| #1 | .05408 | 1.9144 | .98832 | 1.0076 | 2.0744 | .04862 | 2.0892 | 49.865 | .10502 |
| #2 | .05454 | 1.9103 | .98510 | 1.0057 | 2.0559 | .04810 | 2.0903 | 49.261 | .10517 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50838** | **.20093** | **.24984** | **.99465** | **52.244** | **1.0252** | **49.641** | **.50508** | **1.0153** |
| Stddev | .00020 | .00029 | .00071 | .00925 | .514 | .0063 | .046 | .00018 | .0001 |
| %RSD | .04016 | .14640 | .28526 | .92976 | .98359 | .61171 | .09239 | .03624 | .01028 |
| #1 | .50823 | .20113 | .24934 | 1.0012 | 52.607 | 1.0296 | 49.609 | .50495 | 1.0154 |
| #2 | .50852 | .20072 | .25035 | .98811 | 51.881 | 1.0208 | 49.674 | .50521 | 1.0152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.557** | **.49707** | **10.069** | **.50926** | **.00697** | **.52442** | **1.9744** | **10.050** | **2.0125** |
| Stddev | .785 | .00028 | .013 | .00060 | .00057 | .00054 | .0083 | .044 | .0005 |
| %RSD | 1.4655 | .05591 | .12863 | .11798 | 8.1812 | .10309 | .41939 | .44258 | .02552 |
| #1 | 54.112 | .49727 | 10.060 | .50969 | .00737 | .52404 | 1.9803 | 10.081 | 2.0128 |
| #2 | 53.002 | .49688 | 10.078 | .50884 | .00657 | .52480 | 1.9686 | 10.018 | 2.0121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98129** | **1.0441** | **1.0457** | **2.0182** | **2.1385** | **.50141** | **.49797** | **.50449** |
| Stddev | .01190 | .0019 | .0010 | .0010 | .0231 | .00111 | .00006 | .00024 |
| %RSD | 1.2128 | .18443 | .09363 | .04807 | 1.0800 | .22235 | .01115 | .04785 |
| #1 | .98970 | 1.0427 | 1.0450 | 2.0189 | 2.1221 | .50062 | .49800 | .50466 |
| #2 | .97287 | 1.0455 | 1.0464 | 2.0175 | 2.1548 | .50219 | .49793 | .50432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6429.8** | **87193.** | **5515.9** |
| Stddev | 5.0 | 104. | 62.6 |
| %RSD | .07817 | .11950 | 1.1342 |
| #1 | 6426.2 | 87119. | 5471.7 |
| #2 | 6433.3 | 87266. | 5560.1 |

Sample Name: 280-42075-D-1-C@25 Acquired: 5/21/2013 17:37:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.21812** | **.00528** | **.59764** | **.03037** | **-.00011** | **.00211** | **10.984** | **.00014** |
| Stddev | .00019 | .00098 | .00053 | .00166 | .00029 | .00002 | .00060 | .058 | .00008 |
| %RSD | 87.104 | .45140 | 9.9406 | .27845 | .95200 | 22.818 | 28.217 | .52872 | 56.987 |
| #1 | -.00035 | .21743 | .00566 | .59882 | .03058 | -.00012 | .00253 | 11.025 | .00019 |
| #2 | -.00008 | .21882 | .00491 | .59646 | .03017 | -.00009 | .00169 | 10.943 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00263** | **.03079** | **.54865** | F **545.38** | **.00849** | **18.724** | **.33658** | **.00021** |
| Stddev | .00022 | .00001 | .00013 | .00217 | 6.28 | .00219 | .013 | .00025 | .00001 |
| %RSD | 63.886 | .55725 | .43246 | .39603 | 1.1519 | 25.735 | .06895 | .07359 | 6.2180 |
| #1 | .00019 | .00262 | .03089 | .55019 | 549.82 | .00695 | 18.715 | .33641 | .00022 |
| #2 | .00051 | .00264 | .03070 | .54712 | 540.94 | .01004 | 18.733 | .33676 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **672.68** | **.00597** | **.44841** | **.00292** | **3.4738** | **.00130** | **-.00282** | **.62568** | **.00004** |
| Stddev | 4.39 | .00014 | .00000 | .00135 | .0164 | .00143 | .00036 | .01251 | .00039 |
| %RSD | .65245 | 2.3044 | .00051 | 46.208 | .47289 | 109.93 | 12.815 | 1.9988 | 1097.3 |
| #1 | 675.78 | .00607 | .44841 | .00197 | 3.4854 | .00029 | -.00257 | .63452 | .00031 |
| #2 | 669.57 | .00587 | .44840 | .00387 | 3.4622 | .00231 | -.00308 | .61683 | -.00024 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07864** | **-.00026** | **.00098** | **.00099** | **.02323** | **.00129** | **.05553** | **.00113** |
| Stddev | .00041 | .00070 | .00012 | .00015 | .02060 | .00006 | .00005 | .00066 |
| %RSD | .52581 | 270.78 | 12.384 | 14.872 | 88.682 | 4.3466 | .09358 | 58.729 |
| #1 | .07893 | .00024 | .00107 | .00109 | .03779 | .00133 | .05549 | .00066 |
| #2 | .07835 | -.00075 | .00090 | .00088 | .00866 | .00125 | .05556 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6019.7** | **82577.** | **5516.6** |
| Stddev | 87.1 | 109. | 130.0 |
| %RSD | 1.4472 | .13241 | 2.3566 |
| #1 | 6081.3 | 82499. | 5424.6 |
| #2 | 5958.1 | 82654. | 5608.5 |

Sample Name: sd 42075-D-1-C@125 Acquired: 5/21/2013 17:40:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.05154** | **.00050** | **.12617** | **.00626** | **.00002** | **.00087** | **2.2736** | **.00015** |
| Stddev | .00060 | .00024 | .00185 | .00100 | .00008 | .00023 | .00246 | .0148 | .00004 |
| %RSD | 346.94 | .46695 | 367.25 | .78866 | 1.2196 | 1182.5 | 281.18 | .65150 | 24.208 |
| #1 | .00060 | .05137 | .00181 | .12547 | .00631 | .00018 | .00261 | 2.2840 | .00018 |
| #2 | -.00025 | .05171 | -.00080 | .12688 | .00620 | -.00014 | -.00086 | 2.2631 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00051** | **.00523** | **.12589** | W **113.01** | **.00168** | **3.8570** | **.06796** | **.00014** |
| Stddev | .00035 | .00004 | .00021 | .00061 | 1.34 | .00150 | .0068 | .00001 | .00007 |
| %RSD | 201.16 | 7.0529 | 4.0518 | .48605 | 1.1877 | 89.165 | .17518 | .00988 | 45.373 |
| #1 | .00042 | .00049 | .00538 | .12632 | 113.96 | .00274 | 3.8618 | .06796 | .00010 |
| #2 | -.00007 | .00054 | .00508 | .12546 | 112.06 | .00062 | 3.8523 | .06796 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **136.80** | **.00115** | **.09246** | **-.00009** | **.67389** | **.00215** | W **-.00506** | **.11452** | **.00038** |
| Stddev | 1.32 | .00035 | .00021 | .00064 | .00730 | .00107 | .00112 | .01374 | .00005 |
| %RSD | .96277 | 30.142 | .23061 | 707.20 | 1.0833 | 49.858 | 22.174 | 12.001 | 13.578 |
| #1 | 137.73 | .00139 | .09231 | .00036 | .66873 | .00291 | -.00427 | .12424 | .00041 |
| #2 | 135.87 | .00090 | .09262 | -.00054 | .67905 | .00139 | -.00586 | .10480 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 5.0000 | | |
| Low Limit | | | | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01584** | **-.00053** | **.00021** | **.00195** | **-.00088** | **.00018** | **.01422** | **-.00062** |
| Stddev | .00013 | .00145 | .00004 | .00037 | .01934 | .00065 | .00077 | .00198 |
| %RSD | .81866 | 270.63 | 17.165 | 19.123 | 2186.7 | 355.47 | 5.4265 | 318.05 |
| #1 | .01593 | .00049 | .00023 | .00169 | -.01456 | -.00027 | .01368 | .00078 |
| #2 | .01575 | -.00156 | .00018 | .00221 | .01279 | .00064 | .01477 | -.00203 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6241.6** | **83986.** | **5215.5** |
| Stddev | 11.2 | 333. | 93.3 |
| %RSD | .17963 | .39597 | 1.7889 |
| #1 | 6249.5 | 83751. | 5149.5 |
| #2 | 6233.7 | 84221. | 5281.5 |

Sample Name: 42075-D-1-D MS@25 Acquired: 5/21/2013 17:43:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00175** | **.32110** | **.04602** | **.67008** | **.11551** | **.00184** | **.08149** | **13.925** | **.00442** |
| Stddev | .00052 | .00213 | .00121 | .00309 | .00103 | .00003 | .00403 | .149 | .00000 |
| %RSD | 29.930 | .66260 | 2.6337 | .46052 | .89396 | 1.7959 | 4.9440 | 1.0672 | .02589 |
| #1 | .00212 | .32261 | .04516 | .67227 | .11624 | .00182 | .08433 | 14.030 | .00441 |
| #2 | .00138 | .31960 | .04687 | .66790 | .11478 | .00186 | .07864 | 13.820 | .00442 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02104** | **.01077** | **.04339** | **.64159** | F **577.90** | **.05207** | **22.321** | **.38541** | **.04132** |
| Stddev | .00005 | .00015 | .00001 | .00162 | 8.20 | .00267 | .016 | .00022 | .00016 |
| %RSD | .24464 | 1.3556 | .01574 | .25199 | 1.4183 | 5.1270 | .07366 | .05786 | .38266 |
| #1 | .02108 | .01087 | .04338 | .64273 | 583.70 | .05396 | 22.332 | .38525 | .04143 |
| #2 | .02100 | .01066 | .04339 | .64044 | 572.11 | .05018 | 22.309 | .38557 | .04120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **727.46** | **.02666** | **.87921** | **.02372** | **3.8247** | **.02092** | **.06114** | **.64803** | **.07972** |
| Stddev | 9.39 | .00024 | .00089 | .00107 | .0299 | .00241 | .00026 | .00067 | .00035 |
| %RSD | 1.2910 | .91887 | .10078 | 4.5307 | .78286 | 11.513 | .43284 | .10400 | .44019 |
| #1 | 734.10 | .02683 | .87858 | .02448 | 3.8458 | .01922 | .06133 | .64755 | .07997 |
| #2 | 720.82 | .02648 | .87984 | .02296 | 3.8035 | .02262 | .06095 | .64850 | .07947 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12410** | **.03867** | **.04423** | **.07610** | **.06622** | **.02206** | **.08158** | **.02015** |
| Stddev | .00198 | .00242 | .00042 | .00049 | .01742 | .00073 | .00015 | .00091 |
| %RSD | 1.5965 | 6.2528 | .93835 | .64426 | 26.303 | 3.3126 | .18050 | 4.5344 |
| #1 | .12550 | .04038 | .04452 | .07644 | .05390 | .02155 | .08148 | .02080 |
| #2 | .12270 | .03696 | .04394 | .07575 | .07853 | .02258 | .08169 | .01951 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6008.9** | **78745.** | **5170.8** |
| Stddev | 35.2 | 258. | 68.6 |
| %RSD | .58656 | .32723 | 1.3263 |
| #1 | 6033.8 | 78562. | 5122.3 |
| #2 | 5984.0 | 78927. | 5219.3 |

Sample Name: 42075-D-1-E MSD@25 Acquired: 5/21/2013 17:46:04 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 173887 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00191** | **.31027** | **.04190** | **.65335** | **.11135** | **.00179** | **.08199** | **13.122** | **.00435** |
| Stddev | .00024 | .00110 | .00079 | .00237 | .00013 | .00006 | .00125 | .020 | .00018 |
| %RSD | 12.693 | .35373 | 1.8891 | .36247 | .12029 | 3.3646 | 1.5288 | .15365 | 4.1949 |
| #1 | .00174 | .31104 | .04246 | .65168 | .11145 | .00174 | .08111 | 13.136 | .00422 |
| #2 | .00208 | .30949 | .04134 | .65503 | .11126 | .00183 | .08288 | 13.108 | .00448 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02060** | **.01073** | **.04173** | **.60378** | F **539.03** | **.05114** | **21.228** | **.36720** | **.04081** |
| Stddev | .00006 | .00005 | .00081 | .00528 | 1.22 | .00260 | .084 | .00168 | .00006 |
| %RSD | .27583 | .43022 | 1.9314 | .87517 | .22668 | 5.0865 | .39549 | .45713 | .14271 |
| #1 | .02064 | .01070 | .04116 | .60004 | 539.89 | .05298 | 21.169 | .36601 | .04085 |
| #2 | .02056 | .01076 | .04230 | .60752 | 538.16 | .04930 | 21.288 | .36838 | .04076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **688.25** | **.02622** | **.86768** | **.02291** | **3.7090** | **.01821** | **.06269** | **.59391** | **.07793** |
| Stddev | .31 | .00020 | .00510 | .00171 | .0166 | .00074 | .00123 | .00299 | .00059 |
| %RSD | .04476 | .78140 | .58750 | 7.4622 | .44848 | 4.0444 | 1.9579 | .50349 | .75662 |
| #1 | 688.47 | .02637 | .86408 | .02412 | 3.6972 | .01873 | .06356 | .59180 | .07835 |
| #2 | 688.04 | .02608 | .87129 | .02171 | 3.7207 | .01769 | .06183 | .59603 | .07751 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11767** | **.03879** | **.04317** | **.07609** | **.09241** | **.02120** | **.11167** | **.01932** |
| Stddev | .00018 | .00050 | .00045 | .00006 | .03794 | .00005 | .00085 | .00218 |
| %RSD | .15572 | 1.2858 | 1.0488 | .08007 | 41.058 | .24698 | .76205 | 11.294 |
| #1 | .11780 | .03843 | .04285 | .07604 | .06558 | .02124 | .11107 | .02086 |
| #2 | .11755 | .03914 | .04349 | .07613 | .11924 | .02116 | .11227 | .01777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5980.9** | **80004.** | **5332.8** |
| Stddev | 18.1 | 416. | 2.2 |
| %RSD | .30268 | .51940 | .04183 |
| #1 | 5968.1 | 80297. | 5334.4 |
| #2 | 5993.7 | 79710. | 5331.2 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 17:49:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00182** | **49.625** | **-.00028** | **.00494** | **.00069** | **-.00011** | **1.0271** | **.00359** | **-.00079** | **.00212** | **-.00025** | **.00069** | **48.982** |
| Stddev | .00023 | .020 | .00204 | .00035 | .00017 | .00001 | .0084 | .00042 | .00012 | .00006 | .00010 | .00031 | .025 |
| %RSD | 12.606 | .04006 | 727.02 | 7.1294 | 25.093 | 9.2357 | .81416 | 11.802 | 14.812 | 3.0674 | 40.010 | 44.222 | .05111 |
| #1 | .00166 | 49.639 | -.00172 | .00519 | .00082 | -.00010 | 1.0212 | .00389 | -.00071 | .00207 | -.00018 | .00047 | 48.965 |
| #2 | .00198 | 49.611 | .00116 | .00469 | .00057 | -.00012 | 1.0330 | .00329 | -.00088 | .00216 | -.00033 | .00091 | 49.000 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3868** | **.00174** | **-.00515** | **-.00063** | **-.00196** | **251.30** | **.00108** | **.01037** | **.00040** | **5.1406** | **-.00134** | **.00055** | **-.00799** |
| Stddev | .0374 | .00018 | .00090 | .00001 | .00002 | .25 | .00004 | .00165 | .00072 | .0332 | .00064 | .00105 | .01533 |
| %RSD | 2.6984 | 10.218 | 17.461 | 2.1035 | .77244 | .09756 | 3.7584 | 15.954 | 181.12 | .64654 | 47.746 | 189.79 | 191.80 |
| #1 | 1.4132 | .00186 | -.00451 | -.00062 | -.00197 | 251.47 | .00105 | .01154 | .00091 | 5.1171 | -.00089 | .00130 | -.01884 |
| #2 | 1.3603 | .00161 | -.00578 | -.00064 | -.00195 | 251.12 | .00111 | .00920 | -.00011 | 5.1641 | -.00180 | -.00019 | .00285 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00015** | **5.1050** | **.00293** | **-.00141** | **10.023** | **-.00087** | **.00325** | **-.03837** |
| Stddev | .00058 | .00007 | .0080 | .00039 | .00050 | .015 | .00005 | .00016 | .00315 |
| %RSD | 926.42 | 43.931 | .15569 | 13.399 | 35.810 | .15126 | 5.5688 | 4.9786 | 8.2164 |
| #1 | -.00047 | .00010 | 5.0994 | .00265 | -.00105 | 10.034 | -.00083 | .00336 | -.03614 |
| #2 | .00035 | .00020 | 5.1106 | .00321 | -.00176 | 10.012 | -.00090 | .00313 | -.04060 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6238.1** | **85950.** | **5425.6** |
| Stddev | 51.4 | 105. | 18.0 |
| %RSD | .82434 | .12272 | .33230 |
| #1 | 6274.5 | 85875. | 5412.9 |
| #2 | 6201.8 | 86024. | 5438.4 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 17:51:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53551** | **.51513** | **1.0139** | **.50277** | **.51858** | **.48650** | **.00207** | **5.1454** | **.52322** | **.52959** | **.51231** | **.50856** |
| Stddev | .00178 | .00132 | .0079 | .00184 | .00454 | .00439 | .00066 | .0173 | .00153 | .00184 | .00146 | .00232 |
| %RSD | .33179 | .25649 | .78135 | .36622 | .87512 | .90271 | 32.004 | .33693 | .29153 | .34798 | .28439 | .45648 |
| #1 | .53677 | .51419 | 1.0083 | .50147 | .51538 | .48339 | .00160 | 5.1331 | .52215 | .52829 | .51128 | .51020 |
| #2 | .53426 | .51606 | 1.0195 | .50408 | .52179 | .48961 | .00254 | 5.1576 | .52430 | .53090 | .51334 | .50692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5198** | **52.249** | **1.0461** | **20.638** | **.52372** | **.50934** | F **5.5014** | **.52067** | **.99098** | **1.0558** | **.00048** | **1.0402** |
| Stddev | .0027 | .344 | .0128 | .094 | .00189 | .00129 | .0091 | .00117 | .00301 | .0001 | .00267 | .0028 |
| %RSD | .10898 | .65778 | 1.2200 | .45776 | .36110 | .25326 | .16512 | .22556 | .30404 | .00739 | 558.50 | .27323 |
| #1 | 2.5217 | 52.006 | 1.0371 | 20.705 | .52506 | .50843 | 5.4950 | .51984 | .98884 | 1.0558 | -.00141 | 1.0382 |
| #2 | 2.5179 | 52.492 | 1.0552 | 20.571 | .52239 | .51025 | 5.5078 | .52150 | .99311 | 1.0557 | .00237 | 1.0422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0000** | **5.0147** | **1.0244** | **.49744** | **.00180** | **.52723** | **1.0445** | **.01063** | **.50878** | **.52527** | **.51841** |
| Stddev | .0032 | .0062 | .0054 | .00182 | .00030 | .00244 | .0089 | .01005 | .00334 | .00276 | .00425 |
| %RSD | .31530 | .12337 | .52694 | .36521 | 16.673 | .46264 | .85332 | 94.484 | .65716 | .52566 | .81888 |
| #1 | .99779 | 5.0190 | 1.0206 | .49616 | .00159 | .52896 | 1.0382 | .01774 | .51114 | .52722 | .51540 |
| #2 | 1.0022 | 5.0103 | 1.0282 | .49873 | .00201 | .52551 | 1.0509 | .00353 | .50641 | .52332 | .52141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6361.4** | **84669.** | **5306.3** |
| Stddev | 21.7 | 295. | 42.1 |
| %RSD | .34129 | .34833 | .79287 |
| #1 | 6376.8 | 84461. | 5336.1 |
| #2 | 6346.1 | 84878. | 5276.6 |

Sample Name: CCB Acquired: 5/21/2013 17:53:44 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **-.00010** | **.00259** | W **.00272** | **.00043** | **.00004** | **-.00143** | **.00256** | **.00009** | **.00011** | **-.00009** |
| Stddev | .00058 | .00002 | .00027 | .00051 | .00004 | .00002 | .00015 | .00333 | .00015 | .00002 | .00008 |
| %RSD | 203.26 | 21.545 | 10.461 | 18.690 | 9.6548 | 46.661 | 10.693 | 130.34 | 169.82 | 21.726 | 91.713 |
| #1 | .00069 | -.00008 | .00240 | .00236 | .00040 | .00005 | -.00154 | .00491 | .00019 | .00009 | -.00015 |
| #2 | -.00012 | -.00011 | .00278 | .00308 | .00046 | .00002 | -.00133 | .00020 | -.00002 | .00012 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00156 | | | | | | | |
| Low Limit | | | | -.00156 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00088** | **.00193** | F **.46646** | **.00088** | **-.00075** | **.00011** | **.00035** | F **.27725** | **-.00007** | **.00359** | **.00085** |
| Stddev | .00006 | .00287 | .02249 | .00147 | .00007 | .00001 | .00016 | .00681 | .00004 | .00164 | .00174 |
| %RSD | 7.0470 | 148.56 | 4.8208 | 166.82 | 8.9308 | 8.3453 | 45.087 | 2.4566 | 63.513 | 45.654 | 204.99 |
| #1 | -.00092 | .00396 | .45056 | -.00016 | -.00079 | .00012 | .00046 | .28206 | -.00004 | .00243 | .00207 |
| #2 | -.00084 | -.00010 | .48236 | .00192 | -.00070 | .00010 | .00024 | .27243 | -.00010 | .00475 | -.00038 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | | | .10000 | | | |
| Low Limit | | | -.25000 | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00258** | **-.00361** | **.00022** | **-.00042** | **-.00007** | **-.00174** | **.00019** | **.00055** | **-.01463** | **.00004** |
| Stddev | .00102 | .00194 | .00111 | .02865 | .00090 | .00010 | .00194 | .00016 | .00088 | .00603 | .00016 |
| %RSD | 169.71 | 75.153 | 30.711 | 13145. | 215.14 | 139.63 | 111.55 | 84.445 | 158.40 | 41.185 | 377.59 |
| #1 | .00133 | .00121 | -.00439 | .02048 | -.00105 | -.00000 | -.00037 | .00030 | .00117 | -.01889 | -.00007 |
| #2 | -.00012 | .00395 | -.00282 | -.02004 | .00022 | -.00014 | -.00311 | .00008 | -.00007 | -.01037 | .00016 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00288** | W **-.00240** |
| Stddev | .00009 | .00085 |
| %RSD | 2.9609 | 35.315 |
| #1 | .00282 | -.00180 |
| #2 | .00294 | -.00300 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6364.7** | **85126.** | **5219.1** |
| Stddev | 13.5 | 48. | 50.7 |
| %RSD | .21222 | .05697 | .97193 |
| #1 | 6355.1 | 85092. | 5183.3 |
| #2 | 6374.2 | 85160. | 5255.0 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 17:56:13 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01100** | **.10143** | **.01442** | **.09723** | **.01046** | **.00092** | **.10591** | **.20398** | **.00519** | **.01067** | **.01076** |
| Stddev | .00041 | .00030 | .00075 | .00026 | .00005 | .00009 | .00170 | .00014 | .00008 | .00023 | .00007 |
| %RSD | 3.6988 | .29702 | 5.2246 | .26902 | .49918 | 10.086 | 1.6055 | .06678 | 1.5754 | 2.1836 | .68558 |
| #1 | .01072 | .10164 | .01389 | .09742 | .01042 | .00086 | .10471 | .20389 | .00513 | .01050 | .01071 |
| #2 | .01129 | .10122 | .01495 | .09705 | .01050 | .00099 | .10711 | .20408 | .00524 | .01083 | .01081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01448** | W **.12588** | **3.4537** | **.01104** | **.20723** | **.01096** | **.02011** | W **1.2493** | **.04153** | **2.8230** | **.00967** |
| Stddev | .00014 | .00109 | .0010 | .00014 | .00310 | .00011 | .00002 | .0127 | .00018 | .0048 | .00115 |
| %RSD | .97880 | .86332 | .03033 | 1.2835 | 1.4939 | .98143 | .08838 | 1.0202 | .42243 | .16968 | 11.935 |
| #1 | .01438 | .12665 | 3.4544 | .01114 | .20942 | .01088 | .02012 | 1.2403 | .04140 | 2.8264 | .00885 |
| #2 | .01458 | .12511 | 3.4530 | .01094 | .20504 | .01103 | .02010 | 1.2583 | .04165 | 2.8196 | .01048 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | 1.0000 | | | |
| Range | | 20.000% | | | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00311** | **.01075** | **.01403** | **.48809** | **.10088** | **.00993** | **.01530** | **.01019** | **.01696** | **.06344** | **.00993** |
| Stddev | .00068 | .00139 | .00049 | .00260 | .00032 | .00013 | .00082 | .00017 | .00101 | .00502 | .00011 |
| %RSD | 21.776 | 12.884 | 3.4763 | .53243 | .32023 | 1.3076 | 5.3321 | 1.6891 | 5.9635 | 7.9062 | 1.0981 |
| #1 | .00263 | .00977 | .01369 | .48625 | .10110 | .00984 | .01473 | .01007 | .01624 | .06699 | .00985 |
| #2 | .00359 | .01173 | .01438 | .48993 | .10065 | .01002 | .01588 | .01031 | .01767 | .05990 | .01001 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02306** | **.01285** |
| Stddev | .00064 | .00150 |
| %RSD | 2.7665 | 11.699 |
| #1 | .02261 | .01179 |
| #2 | .02351 | .01392 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6399.3** | **86189.** | **5273.4** |
| Stddev | 4.9 | 168. | 70.0 |
| %RSD | .07638 | .19459 | 1.3274 |
| #1 | 6395.9 | 86071. | 5322.9 |
| #2 | 6402.8 | 86308. | 5223.9 |

Sample Name: MB 280-174876/1-A Acquired: 5/21/2013 17:58:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **.00206** | **.00040** | **.00187** | **.00026** | **-.00005** | **-.00161** | **.01238** | **.00019** |
| Stddev | .00018 | .00008 | .00259 | .00014 | .00025 | .00009 | .00026 | .00514 | .00001 |
| %RSD | 112.57 | 3.7196 | 643.11 | 7.2642 | 95.196 | 194.37 | 16.136 | 41.523 | 4.9791 |
| #1 | -.00028 | .00212 | .00223 | .00178 | .00043 | -.00011 | -.00179 | .00875 | .00020 |
| #2 | -.00003 | .00201 | -.00143 | .00197 | .00008 | .00002 | -.00142 | .01602 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **-.00000** | **-.00062** | **.02203** | **.24463** | **-.00005** | **.00214** | **.00017** | **.00011** |
| Stddev | .00017 | .00020 | .00018 | .00693 | .05515 | .00220 | .00167 | .00003 | .00022 |
| %RSD | 208.20 | 5155.2 | 28.732 | 31.442 | 22.542 | 4005.5 | 78.262 | 16.852 | 193.94 |
| #1 | -.00021 | -.00015 | -.00049 | .02693 | .28363 | .00150 | .00332 | .00015 | .00027 |
| #2 | .00004 | .00014 | -.00074 | .01713 | .20564 | -.00161 | .00096 | .00019 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16607** | **-.00025** | **.00225** | **.00102** | **.00240** | **-.00017** | **.00140** | **.00686** | **-.00006** |
| Stddev | .02134 | .00007 | .00046 | .00028 | .00202 | .00058 | .00514 | .01588 | .00068 |
| %RSD | 12.848 | 29.441 | 20.590 | 26.860 | 84.386 | 350.01 | 366.39 | 231.40 | 1143.7 |
| #1 | .18116 | -.00020 | .00192 | .00083 | .00383 | .00025 | -.00223 | .01809 | .00042 |
| #2 | .15099 | -.00030 | .00258 | .00122 | .00097 | -.00058 | .00503 | -.00437 | -.00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **-.00086** | **.00001** | **.00055** | **.00376** | **-.00000** | **.00326** | **.00166** |
| Stddev | .00007 | .00146 | .00004 | .00069 | .06814 | .00012 | .00015 | .00026 |
| %RSD | 40.160 | 169.68 | 397.62 | 127.26 | 1809.9 | 9753.1 | 4.5049 | 15.415 |
| #1 | -.00022 | -.00190 | .00004 | .00005 | .05195 | -.00008 | .00315 | .00148 |
| #2 | -.00012 | .00017 | -.00002 | .00104 | -.04442 | .00008 | .00336 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6433.9** | **88234.** | **5380.2** |
| Stddev | 1.3 | 113. | 7.6 |
| %RSD | .02075 | .12750 | .14096 |
| #1 | 6433.0 | 88155. | 5374.8 |
| #2 | 6434.9 | 88314. | 5385.5 |

Sample Name: LCS 280-174876/2-A Acquired: 5/21/2013 18:01:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05522** | **1.9219** | **.98876** | **.99114** | **2.0555** | **.04817** | **2.0815** | **49.394** | **.10506** |
| Stddev | .00032 | .0037 | .00277 | .00039 | .0215 | .00040 | .0019 | .499 | .00011 |
| %RSD | .58711 | .19163 | .27983 | .03912 | 1.0461 | .82047 | .09281 | 1.0111 | .10113 |
| #1 | .05499 | 1.9193 | .99072 | .99086 | 2.0707 | .04845 | 2.0829 | 49.748 | .10498 |
| #2 | .05545 | 1.9245 | .98681 | .99141 | 2.0403 | .04789 | 2.0802 | 49.041 | .10513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50878** | **.20096** | **.24930** | **.98061** | **51.738** | **1.0293** | **50.032** | **.50580** | **.99704** |
| Stddev | .00062 | .00047 | .00064 | .00622 | .591 | .0138 | .136 | .00180 | .00004 |
| %RSD | .12251 | .23267 | .25828 | .63455 | 1.1414 | 1.3392 | .27218 | .35616 | .00353 |
| #1 | .50922 | .20129 | .24885 | .98501 | 52.155 | 1.0390 | 49.936 | .50453 | .99706 |
| #2 | .50834 | .20063 | .24976 | .97621 | 51.320 | 1.0195 | 50.128 | .50708 | .99701 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.652** | **.49845** | **9.9115** | **.51179** | **-.00495** | **.51287** | **1.9749** | **9.9241** | **1.9773** |
| Stddev | .585 | .00106 | .0158 | .00033 | .00301 | .00189 | .0101 | .0556 | .0003 |
| %RSD | 1.1106 | .21278 | .15973 | .06387 | 60.824 | .36876 | .51220 | .56043 | .01739 |
| #1 | 53.065 | .49920 | 9.9003 | .51203 | -.00282 | .51421 | 1.9821 | 9.9634 | 1.9776 |
| #2 | 52.238 | .49770 | 9.9227 | .51156 | -.00707 | .51153 | 1.9678 | 9.8848 | 1.9771 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98023** | **1.0431** | **1.0271** | **2.0228** | **2.1516** | **.50253** | **.50308** | **.49140** |
| Stddev | .01277 | .0040 | .0017 | .0008 | .0248 | .00181 | .00318 | .00140 |
| %RSD | 1.3025 | .38059 | .16178 | .04113 | 1.1505 | .35926 | .63133 | .28471 |
| #1 | .98926 | 1.0459 | 1.0260 | 2.0234 | 2.1341 | .50125 | .50083 | .49239 |
| #2 | .97120 | 1.0403 | 1.0283 | 2.0223 | 2.1691 | .50381 | .50532 | .49041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6277.6** | **84161.** | **5282.9** |
| Stddev | 2.6 | 149. | 81.1 |
| %RSD | .04210 | .17752 | 1.5345 |
| #1 | 6279.5 | 84267. | 5225.5 |
| #2 | 6275.7 | 84055. | 5340.2 |

Sample Name: 280-42327-D-3-A Acquired: 5/21/2013 18:03:21 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00265** | **.86516** | **.08744** | **7.5014** | **.21152** | **-.00043** | **-.00613** | W **1415.2** | **.00611** |
| Stddev | .00094 | .00262 | .00096 | .0206 | .00024 | .00001 | .00440 | 3.5 | .00016 |
| %RSD | 35.637 | .30226 | 1.0930 | .27466 | .11129 | 2.8820 | 71.742 | .24446 | 2.6175 |
| #1 | .00198 | .86331 | .08812 | 7.4868 | .21169 | -.00043 | -.00302 | 1412.8 | .00599 |
| #2 | .00331 | .86701 | .08677 | 7.5159 | .21135 | -.00044 | -.00924 | 1417.7 | .00622 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16899** | **.18315** | **.06963** | **208.20** | W **381.06** | **.18969** | **116.52** | W **16.494** | **.01896** |
| Stddev | .00012 | .00004 | .00000 | 1.10 | 3.75 | .00047 | .19 | .146 | .00028 |
| %RSD | .06897 | .02156 | .00567 | .52672 | .98392 | .24576 | .16134 | .88439 | 1.4878 |
| #1 | .16907 | .18318 | .06963 | 208.97 | 383.71 | .19002 | 116.39 | 16.391 | .01876 |
| #2 | .16891 | .18313 | .06964 | 207.42 | 378.41 | .18936 | 116.65 | 16.598 | .01916 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 100.00 | | | 10.000 | |
| Low Limit | | | | | -.50000 | | | -.01000 | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **831.88** | **.32888** | **18.421** | **.04630** | **335.33** | **.03502** | **.02733** | **23.647** | **.01355** |
| Stddev | 4.56 | .00067 | .080 | .00012 | .62 | .00180 | .00122 | .188 | .00117 |
| %RSD | .54833 | .20403 | .43604 | .25024 | .18532 | 5.1340 | 4.4707 | .79426 | 8.6679 |
| #1 | 835.11 | .32935 | 18.364 | .04622 | 334.89 | .03375 | .02646 | 23.779 | .01272 |
| #2 | 828.66 | .32840 | 18.477 | .04639 | 335.77 | .03630 | .02819 | 23.514 | .01438 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.2578** | **.02076** | **.08450** | W **-.01991** | W **-.05491** | **.01137** | W **18.555** | **-.00051** |
| Stddev | .0400 | .00007 | .00026 | .00024 | .00786 | .00002 | .031 | .00187 |
| %RSD | .76069 | .33204 | .30424 | 1.2102 | 14.312 | .15002 | .16736 | 365.77 |
| #1 | 5.2861 | .02081 | .08468 | -.02008 | -.04935 | .01136 | 18.533 | -.00183 |
| #2 | 5.2295 | .02071 | .08432 | -.01974 | -.06047 | .01138 | 18.577 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 5.0000 | 45.000 | | 10.000 | |
| Low Limit | | | | -.01000 | -.05000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5721.8** | **77998.** | **5314.2** |
| Stddev | 3.0 | 134. | 61.2 |
| %RSD | .05310 | .17206 | 1.1515 |
| #1 | 5719.6 | 78093. | 5270.9 |
| #2 | 5723.9 | 77903. | 5357.5 |

Sample Name: 280-42321-A-2-A Acquired: 5/21/2013 18:06:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.21783** | **.00140** | **.10526** | **.03888** | **-.00002** | **-.00056** | **67.886** | **.00017** |
| Stddev | .00021 | .00115 | .00086 | .00122 | .00014 | .00002 | .00197 | .627 | .00014 |
| %RSD | 281.04 | .52985 | 61.149 | 1.1583 | .34888 | 129.26 | 351.19 | .92382 | 80.131 |
| #1 | .00007 | .21865 | .00200 | .10612 | .03879 | -.00004 | .00083 | 67.443 | .00007 |
| #2 | -.00022 | .21701 | .00079 | .10440 | .03898 | -.00000 | -.00196 | 68.330 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00057** | **.00433** | **.29371** | **4.4690** | **.06968** | **21.783** | **.25290** | **.00245** |
| Stddev | .00002 | .00010 | .00015 | .00260 | .0338 | .00106 | .025 | .00035 | .00004 |
| %RSD | 2.5283 | 17.828 | 3.4877 | .88416 | .75551 | 1.5214 | .11704 | .14035 | 1.4284 |
| #1 | .00061 | .00050 | .00443 | .29187 | 4.4928 | .06893 | 21.765 | .25265 | .00248 |
| #2 | .00063 | .00064 | .00422 | .29554 | 4.4451 | .07043 | 21.801 | .25315 | .00243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **131.30** | **.00139** | **.07998** | **.00036** | **64.023** | **.00040** | **.00032** | **1.3264** | **-.00018** |
| Stddev | .73 | .00013 | .00187 | .00006 | .124 | .00081 | .00181 | .0201 | .00023 |
| %RSD | .55510 | 9.1275 | 2.3360 | 18.112 | .19405 | 202.57 | 560.08 | 1.5171 | 125.52 |
| #1 | 130.79 | .00130 | .07866 | .00040 | 64.111 | -.00017 | .00160 | 1.3121 | -.00034 |
| #2 | 131.82 | .00148 | .08130 | .00031 | 63.935 | .00098 | -.00096 | 1.3406 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.87072** | **.00088** | **.00606** | **.00242** | **-.00651** | **.00178** | **.01635** | **-.00146** |
| Stddev | .00390 | .00050 | .00017 | .00061 | .00757 | .00017 | .00027 | .00081 |
| %RSD | .44845 | 56.241 | 2.8601 | 25.119 | 116.35 | 9.7514 | 1.6689 | 55.435 |
| #1 | .86796 | .00123 | .00594 | .00199 | -.00115 | .00190 | .01616 | -.00203 |
| #2 | .87348 | .00053 | .00618 | .00285 | -.01186 | .00166 | .01654 | -.00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6360.1** | **85858.** | **5392.3** |
| Stddev | 41.7 | 83. | 31.4 |
| %RSD | .65497 | .09705 | .58245 |
| #1 | 6330.6 | 85917. | 5414.5 |
| #2 | 6389.6 | 85799. | 5370.1 |

Sample Name: 280-42321-A-2-Asd@5 Acquired: 5/21/2013 18:08:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.05643** | **-.00003** | **.02744** | **.00841** | **-.00003** | **-.00195** | **14.609** | **.00012** |
| Stddev | .00101 | .00085 | .00051 | .00053 | .00006 | .00011 | .00090 | .066 | .00005 |
| %RSD | 525.24 | 1.5120 | 1621.9 | 1.9461 | .75656 | 349.20 | 46.235 | .45067 | 47.549 |
| #1 | .00091 | .05582 | -.00039 | .02782 | .00837 | .00004 | -.00131 | 14.656 | .00008 |
| #2 | -.00052 | .05703 | .00033 | .02706 | .00846 | -.00010 | -.00258 | 14.562 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00006** | **.00066** | **.07744** | **1.2644** | **.01354** | **4.7966** | **.05556** | **.00064** |
| Stddev | .00006 | .00011 | .00029 | .00221 | .0618 | .00045 | .0000 | .00001 | .00025 |
| %RSD | 22.303 | 189.38 | 44.183 | 2.8595 | 4.8897 | 3.3516 | .00024 | .01173 | 39.007 |
| #1 | .00031 | .00014 | .00086 | .07901 | 1.3082 | .01322 | 4.7966 | .05556 | .00081 |
| #2 | .00023 | -.00002 | .00045 | .07587 | 1.2207 | .01386 | 4.7966 | .05557 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.036** | **.00058** | **.01934** | **.00000** | **13.429** | **.00146** | **.00034** | **.30205** | **.00036** |
| Stddev | .425 | .00015 | .00040 | .00091 | .014 | .00178 | .00079 | .01457 | .00070 |
| %RSD | 1.4652 | 25.252 | 2.0705 | 23328. | .10334 | 121.72 | 233.63 | 4.8247 | 190.86 |
| #1 | 28.735 | .00048 | .01906 | -.00064 | 13.439 | .00272 | -.00022 | .29174 | -.00013 |
| #2 | 29.337 | .00068 | .01963 | .00065 | 13.420 | .00020 | .00090 | .31235 | .00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18805** | **-.00110** | **.00196** | **.00052** | **.00945** | **.00013** | **.00714** | **-.00080** |
| Stddev | .00128 | .00055 | .00022 | .00075 | .01873 | .00003 | .00031 | .00330 |
| %RSD | .68118 | 50.055 | 11.362 | 144.92 | 198.21 | 21.708 | 4.3601 | 411.84 |
| #1 | .18895 | -.00149 | .00180 | -.00001 | -.00379 | .00015 | .00692 | .00153 |
| #2 | .18714 | -.00071 | .00212 | .00105 | .02270 | .00011 | .00736 | -.00313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6461.6** | **87151.** | **5330.3** |
| Stddev | 4.6 | 503. | 66.0 |
| %RSD | .07127 | .57716 | 1.2385 |
| #1 | 6458.4 | 86796. | 5283.6 |
| #2 | 6464.9 | 87507. | 5377.0 |

Sample Name: 280-42321-A-2-B MS  Acquired: 5/21/2013 18:11:24  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174876  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05133** | **1.9730** | **.90730** | **.98841** | **1.8717** | **.04271** | **1.9040** | **106.61** | **.09487** |
| Stddev | .00069 | .0141 | .00909 | .00747 | .0162 | .00047 | .0147 | .97 | .00067 |
| %RSD | 1.3492 | .71729 | 1.0013 | .75621 | .86639 | 1.0896 | .77462 | .90694 | .70233 |
| #1 | .05084 | 1.9830 | .91372 | .99370 | 1.8832 | .04304 | 1.9145 | 107.29 | .09534 |
| #2 | .05182 | 1.9629 | .90087 | .98313 | 1.8602 | .04238 | 1.8936 | 105.92 | .09440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45057** | **.17784** | **.22836** | **1.1525** | **50.043** | **.98426** | **64.125** | **.68299** | **.89381** |
| Stddev | .00456 | .00100 | .00089 | .0103 | .414 | .01125 | .231 | .00247 | .00615 |
| %RSD | 1.0126 | .56246 | .39019 | .89360 | .82740 | 1.1432 | .36090 | .36159 | .68824 |
| #1 | .45379 | .17855 | .22773 | 1.1598 | 50.336 | .99221 | 63.962 | .68124 | .89816 |
| #2 | .44734 | .17713 | .22899 | 1.1452 | 49.750 | .97630 | 64.289 | .68473 | .88946 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **168.16** | **.43809** | **9.1417** | **.45278** | **60.843** | **.46732** | **1.8015** | **10.654** | **1.7642** |
| Stddev | 1.93 | .00304 | .0620 | .00217 | .442 | .00264 | .0114 | .013 | .0090 |
| %RSD | 1.1456 | .69436 | .67868 | .47867 | .72701 | .56590 | .63076 | .12421 | .51257 |
| #1 | 169.52 | .44024 | 9.1856 | .45431 | 61.156 | .46919 | 1.8096 | 10.663 | 1.7706 |
| #2 | 166.79 | .43594 | 9.0978 | .45125 | 60.530 | .46545 | 1.7935 | 10.645 | 1.7578 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6827** | **.93147** | **.92627** | **1.7973** | **1.8772** | **.45104** | **.45797** | **.44357** |
| Stddev | .0247 | .00001 | .00358 | .0084 | .0194 | .00028 | .00174 | .00151 |
| %RSD | 1.4705 | .00102 | .38608 | .46941 | 1.0343 | .06159 | .38074 | .34032 |
| #1 | 1.7002 | .93148 | .92374 | 1.8033 | 1.8635 | .45124 | .45673 | .44463 |
| #2 | 1.6652 | .93147 | .92879 | 1.7913 | 1.8910 | .45084 | .45920 | .44250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6323.7** | **84538.** | **5415.4** |
| Stddev | 32.1 | 42. | 28.0 |
| %RSD | .50804 | .05017 | .51654 |
| #1 | 6301.0 | 84568. | 5395.7 |
| #2 | 6346.4 | 84508. | 5435.2 |

Sample Name: 280-42321-A-2-C MSD Acquired: 5/21/2013 18:13:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174876 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05076** | **1.9290** | **.88510** | **.96304** | **1.8456** | **.04245** | **1.8495** | **105.02** | **.09244** |
| Stddev | .00009 | .0033 | .00005 | .00333 | .0138 | .00045 | .0087 | .88 | .00036 |
| %RSD | .16767 | .17173 | .00580 | .34576 | .74593 | 1.0530 | .46959 | .83861 | .38624 |
| #1 | .05070 | 1.9313 | .88513 | .96539 | 1.8553 | .04276 | 1.8557 | 105.65 | .09269 |
| #2 | .05082 | 1.9267 | .88506 | .96068 | 1.8358 | .04213 | 1.8434 | 104.40 | .09219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44019** | **.17350** | **.22596** | **1.1377** | **49.634** | **.97579** | **63.322** | **.67365** | **.87173** |
| Stddev | .00197 | .00044 | .00089 | .0038 | .355 | .00790 | .273 | .00380 | .00167 |
| %RSD | .44823 | .25584 | .39244 | .33783 | .71569 | .80992 | .43038 | .56415 | .19136 |
| #1 | .44159 | .17381 | .22659 | 1.1404 | 49.885 | .98138 | 63.515 | .67634 | .87291 |
| #2 | .43880 | .17319 | .22533 | 1.1350 | 49.383 | .97020 | 63.130 | .67096 | .87055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **165.74** | **.42881** | **8.9353** | **.44159** | **58.776** | **.45956** | **1.7595** | **10.519** | **1.7191** |
| Stddev | 1.64 | .00147 | .0336 | .00281 | .234 | .00372 | .0081 | .051 | .0091 |
| %RSD | .98997 | .34311 | .37586 | .63653 | .39873 | .80897 | .45884 | .48897 | .52864 |
| #1 | 166.90 | .42985 | 8.9591 | .44357 | 58.942 | .46219 | 1.7652 | 10.555 | 1.7256 |
| #2 | 164.58 | .42777 | 8.9116 | .43960 | 58.610 | .45693 | 1.7538 | 10.482 | 1.7127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6554** | **.91930** | **.91284** | **1.7491** | **1.8559** | **.44594** | **.45205** | **.43613** |
| Stddev | .0153 | .00599 | .00484 | .0095 | .0179 | .00314 | .00442 | .00563 |
| %RSD | .92102 | .65147 | .52982 | .54333 | .96441 | .70363 | .97807 | 1.2898 |
| #1 | 1.6662 | .92354 | .91626 | 1.7558 | 1.8686 | .44816 | .45518 | .44011 |
| #2 | 1.6446 | .91507 | .90942 | 1.7424 | 1.8432 | .44372 | .44893 | .43215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6429.0** | **85462.** | **5445.6** |
| Stddev | 23.1 | 723. | 70.7 |
| %RSD | .35958 | .84599 | 1.2980 |
| #1 | 6412.6 | 84951. | 5395.7 |
| #2 | 6445.3 | 85973. | 5495.6 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 18:15:48 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00210** | **47.390** | **.00104** | **.00814** | **.00068** | **-.00014** | **.95580** | **.01400** | **-.00065** | **.00173** | **-.00022** | **.00078** | **46.886** |
| Stddev | .00039 | .079 | .00008 | .00026 | .00001 | .00001 | .01028 | .00246 | .00007 | .00013 | .00000 | .00045 | .181 |
| %RSD | 18.517 | .16656 | 8.0542 | 3.1851 | 1.0078 | 9.4826 | 1.0755 | 17.572 | 11.034 | 7.6940 | 2.2774 | 57.877 | .38608 |
| #1 | .00183 | 47.446 | .00110 | .00796 | .00069 | -.00013 | .96307 | .01574 | -.00070 | .00163 | -.00021 | .00046 | 46.758 |
| #2 | .00238 | 47.334 | .00098 | .00833 | .00068 | -.00014 | .94853 | .01226 | -.00060 | .00182 | -.00022 | .00110 | 47.014 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39958** | **.00071** | **.00020** | **-.00052** | **-.00144** | **243.35** | **.00078** | **.00601** | **-.00144** | **4.7939** | **.00056** | **.00685** | **.00814** |
| Stddev | .09631 | .00207 | .00297 | .00002 | .00017 | .99 | .00004 | .00097 | .00137 | .0514 | .00071 | .00020 | .00953 |
| %RSD | 24.103 | 289.97 | 1492.0 | 4.7800 | 11.857 | .40728 | 5.7334 | 16.215 | 95.590 | 1.0721 | 128.21 | 2.9709 | 117.05 |
| #1 | .46769 | .00218 | .00230 | -.00050 | -.00132 | 244.05 | .00075 | .00532 | -.00047 | 4.8302 | .00106 | .00699 | .00140 |
| #2 | .33148 | -.00075 | -.00190 | -.00053 | -.00156 | 242.65 | .00082 | .00670 | -.00241 | 4.7576 | .00005 | .00671 | .01488 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00049** | **4.8640** | **.00238** | **-.00100** | **9.5473** | **-.00043** | **.00321** | **-.03583** |
| Stddev | .00037 | .00005 | .0044 | .00045 | .00024 | .0198 | .00063 | .00000 | .00069 |
| %RSD | 78.310 | 9.7968 | .09049 | 18.832 | 23.813 | .20774 | 148.43 | .14989 | 1.9137 |
| #1 | .00074 | .00045 | 4.8609 | .00206 | -.00083 | 9.5614 | .00002 | .00321 | -.03632 |
| #2 | .00021 | .00052 | 4.8671 | .00270 | -.00117 | 9.5333 | -.00087 | .00320 | -.03535 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6506.7** | **87161.** | **5502.8** |
| Stddev | 23.4 | 3. | 3.4 |
| %RSD | .35898 | .00333 | .06105 |
| #1 | 6490.2 | 87159. | 5500.4 |
| #2 | 6523.3 | 87163. | 5505.2 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 18:18:10 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49625** | **.47799** | **.94562** | **.47294** | **.48616** | **.45485** | **.00126** | **4.7979** | **.48734** | **.49367** | **.47765** | **.47386** | **2.3421** |
| Stddev | .00023 | .00074 | .00026 | .00199 | .00332 | .00271 | .00161 | .0132 | .00040 | .00167 | .00022 | .00042 | .0053 |
| %RSD | .04698 | .15585 | .02776 | .42065 | .68192 | .59489 | 127.59 | .27534 | .08128 | .33816 | .04570 | .08967 | .22458 |
| #1 | .49609 | .47852 | .94544 | .47435 | .48381 | .45293 | .00240 | 4.7886 | .48762 | .49485 | .47780 | .47356 | 2.3458 |
| #2 | .49642 | .47747 | .94581 | .47153 | .48850 | .45676 | .00012 | 4.8073 | .48706 | .49249 | .47750 | .47416 | 2.3383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.329** | **.98359** | **19.201** | **.48793** | **.47584** | **5.0532** | **.48785** | **.92689** | **.98605** | **.02887** | **.96672** | **.93718** | **4.6807** |
| Stddev | .202 | .00481 | .017 | .00064 | .00159 | .0242 | .00136 | .00365 | .00293 | .00280 | .00411 | .00286 | .0329 |
| %RSD | .40902 | .48937 | .08931 | .13060 | .33393 | .47838 | .27847 | .39427 | .29690 | 9.7072 | .42471 | .30498 | .70324 |
| #1 | 49.186 | .98019 | 19.213 | .48838 | .47696 | 5.0361 | .48881 | .92947 | .98812 | .03086 | .96962 | .93920 | 4.7040 |
| #2 | 49.472 | .98700 | 19.189 | .48748 | .47471 | 5.0703 | .48689 | .92431 | .98398 | .02689 | .96382 | .93515 | 4.6575 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95537** | **.46670** | **-.00034** | **.49016** | **.97831** | **-.00442** | **.47370** | **.49087** | **.47999** |
| Stddev | .00079 | .00153 | .00153 | .00064 | .00146 | .01483 | .00033 | .00097 | .00413 |
| %RSD | .08295 | .32858 | 444.56 | .13002 | .14953 | 335.83 | .07008 | .19760 | .86132 |
| #1 | .95593 | .46562 | .00074 | .49061 | .97934 | -.01490 | .47393 | .49156 | .47706 |
| #2 | .95481 | .46779 | -.00143 | .48971 | .97728 | .00607 | .47346 | .49019 | .48291 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6615.7** | **88278.** | **5457.5** |
| Stddev | 13.1 | 362. | 22.3 |
| %RSD | .19876 | .41027 | .40846 |
| #1 | 6606.4 | 88022. | 5473.3 |
| #2 | 6625.0 | 88535. | 5441.8 |

Sample Name: CCB Acquired: 5/21/2013 18:20:25 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00326** | **.00137** | F **.00499** | **.00049** | **.00008** | **-.00180** | **.00146** | **.00011** | **.00006** | **.00026** | **-.00110** |
| Stddev | .00051 | .00055 | .00224 | .00015 | .00021 | .00003 | .00050 | .00217 | .00010 | .00010 | .00004 | .00033 |
| %RSD | 376.10 | 16.837 | 163.69 | 2.9743 | 43.198 | 39.238 | 27.586 | 148.94 | 87.443 | 154.11 | 15.242 | 30.191 |
| #1 | .00050 | .00287 | -.00022 | .00488 | .00064 | .00010 | -.00215 | .00300 | .00018 | -.00001 | .00028 | -.00133 |
| #2 | -.00023 | .00365 | .00295 | .00509 | .00034 | .00006 | -.00145 | -.00008 | .00004 | .00013 | .00023 | -.00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00287** | **.20008** | **.00052** | **.00384** | **.00014** | **.00016** | F **.16568** | **-.00002** | **.00139** | **.00048** | **.02711** | **.00241** |
| Stddev | .00113 | .02494 | .00010 | .00084 | .00002 | .00011 | .00659 | .00016 | .00042 | .00006 | .00018 | .00059 |
| %RSD | 39.180 | 12.465 | 18.933 | 21.850 | 15.209 | 69.725 | 3.9756 | 891.47 | 30.318 | 12.617 | .66886 | 24.492 |
| #1 | .00208 | .18244 | .00045 | .00444 | .00016 | .00023 | .17033 | .00009 | .00109 | .00052 | .02724 | .00283 |
| #2 | .00367 | .21771 | .00059 | .00325 | .00013 | .00008 | .16102 | -.00013 | .00169 | .00043 | .02698 | .00199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | .10000 | | | | | |
| Low Limit | | | | | | | -.10000 | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00186** | **.01928** | **-.00023** | **-.00002** | **-.00209** | **.00005** | **.00125** | **.00915** | **.00005** | **.00266** | **-.00076** |
| Stddev | .00203 | .00712 | .00086 | .00005 | .00097 | .00002 | .00057 | .00034 | .00027 | .00005 | .00333 |
| %RSD | 108.83 | 36.937 | 367.15 | 284.46 | 46.503 | 50.512 | 45.782 | 3.7562 | 592.37 | 1.9773 | 437.02 |
| #1 | .00043 | .02432 | -.00084 | .00002 | -.00140 | .00003 | .00165 | .00939 | -.00015 | .00270 | -.00312 |
| #2 | .00330 | .01424 | .00037 | -.00006 | -.00277 | .00006 | .00084 | .00890 | .00024 | .00263 | .00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6573.2** | **88571.** | **5410.9** |
| Stddev | 1.0 | 46. | 58.1 |
| %RSD | .01456 | .05226 | 1.0739 |
| #1 | 6572.5 | 88604. | 5369.9 |
| #2 | 6573.8 | 88538. | 5452.0 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 18:22:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01130** | **.10020** | **.01611** | **.09886** | **.01027** | **.00093** | **.10533** | **.20395** | **.00532** | **.01050** | **.01003** |
| Stddev | .00009 | .00078 | .00217 | .00018 | .00001 | .00008 | .00209 | .00007 | .00010 | .00012 | .00003 |
| %RSD | .83209 | .77676 | 13.482 | .17828 | .09281 | 8.9776 | 1.9886 | .03378 | 1.8952 | 1.0980 | .27497 |
| #1 | .01137 | .09965 | .01457 | .09899 | .01027 | .00098 | .10681 | .20400 | .00539 | .01042 | .01001 |
| #2 | .01123 | .10075 | .01764 | .09874 | .01026 | .00087 | .10385 | .20390 | .00525 | .01058 | .01005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01382** | **.10018** | **3.2382** | **.00973** | **.20570** | **.01053** | **.02000** | **1.1816** | **.04115** | **2.8057** | **.00843** |
| Stddev | .00048 | .00345 | .0192 | .00131 | .00021 | .00006 | .00012 | .0180 | .00008 | .0025 | .00032 |
| %RSD | 3.4462 | 3.4432 | .59313 | 13.456 | .10160 | .57924 | .60349 | 1.5214 | .19598 | .08818 | 3.7750 |
| #1 | .01416 | .09774 | 3.2518 | .00880 | .20555 | .01049 | .01992 | 1.1943 | .04109 | 2.8074 | .00820 |
| #2 | .01348 | .10262 | 3.2246 | .01065 | .20584 | .01057 | .02009 | 1.1689 | .04120 | 2.8039 | .00865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02113** | W **.01253** | **.01453** | **.47809** | **.10091** | **.00978** | **.01679** | **.01023** | **.01624** | F **.03981** | **.00966** |
| Stddev | .00068 | .00111 | .00185 | .01707 | .00113 | .00020 | .00103 | .00027 | .00197 | .01466 | .00007 |
| %RSD | 3.2004 | 8.8272 | 12.743 | 3.5698 | 1.1243 | 2.0542 | 6.1603 | 2.6246 | 12.130 | 36.827 | .72843 |
| #1 | .02160 | .01331 | .01584 | .49016 | .10011 | .00993 | .01606 | .01004 | .01763 | .02944 | .00961 |
| #2 | .02065 | .01175 | .01322 | .46602 | .10171 | .00964 | .01753 | .01042 | .01485 | .05017 | .00971 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02366** | **.01462** |
| Stddev | .00033 | .00339 |
| %RSD | 1.3807 | 23.206 |
| #1 | .02343 | .01222 |
| #2 | .02389 | .01702 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6531.7** | **87235.** | **5342.3** |
| Stddev | 3.2 | 316. | 35.7 |
| %RSD | .04949 | .36191 | .66900 |
| #1 | 6529.4 | 87459. | 5317.0 |
| #2 | 6534.0 | 87012. | 5367.6 |

Sample Name: MB 280-174871/1-A Acquired: 5/21/2013 18:25:19 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174871 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00104** | **.00042** | **.00368** | **.00049** | **-.00016** | **-.00087** | **.00606** | **.00019** |
| Stddev | .00080 | .00016 | .00069 | .00020 | .00021 | .00001 | .00137 | .00435 | .00012 |
| %RSD | 279.28 | 15.666 | 165.60 | 5.5415 | 42.846 | 6.6059 | 158.49 | 71.811 | 62.815 |
| #1 | -.00028 | .00116 | .00091 | .00383 | .00064 | -.00017 | .00010 | .00913 | .00011 |
| #2 | .00085 | .00093 | -.00007 | .00354 | .00034 | -.00015 | -.00184 | .00298 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **-.00002** | **.00022** | **.00685** | **.14238** | **.00057** | **.00201** | **.00017** | **.00028** |
| Stddev | .00002 | .00015 | .00035 | .00207 | .03602 | .00089 | .00041 | .00006 | .00009 |
| %RSD | 25.038 | 683.72 | 160.21 | 30.175 | 25.295 | 158.09 | 20.398 | 33.346 | 33.565 |
| #1 | -.00010 | .00008 | -.00003 | .00831 | .16785 | .00120 | .00229 | .00013 | .00035 |
| #2 | -.00007 | -.00013 | .00046 | .00539 | .11691 | -.00007 | .00172 | .00021 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12386** | **-.00040** | **.00097** | **.00074** | **.01845** | **.00196** | **-.00405** | **-.00587** | **.00029** |
| Stddev | .00464 | .00035 | .00171 | .00049 | .00051 | .00145 | .00089 | .00499 | .00084 |
| %RSD | 3.7424 | 87.181 | 176.15 | 65.724 | 2.7710 | 73.981 | 21.886 | 84.950 | 288.25 |
| #1 | .12059 | -.00015 | -.00024 | .00108 | .01881 | .00094 | -.00468 | -.00235 | .00089 |
| #2 | .12714 | -.00064 | .00219 | .00040 | .01808 | .00299 | -.00342 | -.00940 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **-.00009** | **.00005** | **.00122** | **.02315** | **-.00027** | **.00340** | **-.00138** |
| Stddev | .00002 | .00102 | .00027 | .00003 | .03876 | .00047 | .00009 | .00091 |
| %RSD | 247.22 | 1173.3 | 554.04 | 2.1927 | 167.43 | 170.94 | 2.7440 | 66.450 |
| #1 | -.00001 | .00063 | .00024 | .00124 | .05056 | -.00061 | .00333 | -.00073 |
| #2 | .00002 | -.00081 | -.00014 | .00120 | -.00426 | .00006 | .00346 | -.00202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6617.9** | **87821.** | **5460.5** |
| Stddev | 2.7 | 332. | 32.2 |
| %RSD | .04134 | .37768 | .59058 |
| #1 | 6619.8 | 88056. | 5483.3 |
| #2 | 6616.0 | 87586. | 5437.7 |

Sample Name: LCS 280-174871/2-A Acquired: 5/21/2013 18:27:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174871 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05512** | **1.8928** | **.97677** | **.97214** | **2.0366** | **.04770** | **2.0480** | **48.714** | **.10340** |
| Stddev | .00054 | .0040 | .00098 | .00098 | .0061 | .00013 | .0024 | .010 | .00012 |
| %RSD | .98489 | .21153 | .10035 | .10127 | .29955 | .26303 | .11941 | .02005 | .11971 |
| #1 | .05474 | 1.8900 | .97746 | .97145 | 2.0322 | .04762 | 2.0463 | 48.707 | .10349 |
| #2 | .05551 | 1.8957 | .97608 | .97284 | 2.0409 | .04779 | 2.0498 | 48.721 | .10332 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50270** | **.19851** | **.24538** | **.96547** | **51.068** | **1.0184** | **49.262** | **.50048** | **.98479** |
| Stddev | .00033 | .00011 | .00045 | .00337 | .013 | .0045 | .118 | .00046 | .00017 |
| %RSD | .06599 | .05565 | .18533 | .34945 | .02532 | .44256 | .23879 | .09265 | .01751 |
| #1 | .50246 | .19843 | .24570 | .96308 | 51.077 | 1.0152 | 49.345 | .50080 | .98491 |
| #2 | .50293 | .19859 | .24506 | .96785 | 51.059 | 1.0216 | 49.178 | .50015 | .98466 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **52.079** | **.49168** | **9.7434** | **.50478** | **.01022** | **.51054** | **1.9509** | **9.7197** | **1.9576** |
| Stddev | .164 | .00044 | .0044 | .00211 | .00010 | .00008 | .0085 | .0107 | .0050 |
| %RSD | .31414 | .08949 | .04475 | .41838 | 1.0258 | .01486 | .43536 | .11059 | .25483 |
| #1 | 52.195 | .49199 | 9.7403 | .50627 | .01029 | .51048 | 1.9569 | 9.7121 | 1.9612 |
| #2 | 51.963 | .49137 | 9.7464 | .50329 | .01015 | .51059 | 1.9449 | 9.7273 | 1.9541 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96728** | **1.0339** | **1.0174** | **1.9897** | **2.0932** | **.49668** | **.49912** | **.48596** |
| Stddev | .00223 | .0014 | .0010 | .0099 | .0391 | .00035 | .00244 | .00675 |
| %RSD | .23093 | .13210 | .09878 | .49538 | 1.8694 | .07112 | .48800 | 1.3881 |
| #1 | .96886 | 1.0349 | 1.0167 | 1.9967 | 2.0655 | .49643 | .50084 | .48119 |
| #2 | .96570 | 1.0330 | 1.0181 | 1.9828 | 2.1209 | .49693 | .49739 | .49073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6390.4** | **85675.** | **5414.6** |
| Stddev | 4.2 | 324. | 8.2 |
| %RSD | .06591 | .37836 | .15139 |
| #1 | 6387.4 | 85445. | 5408.8 |
| #2 | 6393.4 | 85904. | 5420.4 |

Sample Name: 280-42322-K-1-A Acquired: 5/21/2013 18:30:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174871 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **1.2465** | **.07484** | **3.5542** | **.03222** | **.00346** | **-.00496** | **356.07** | **.00333** |
| Stddev | .00119 | .0060 | .00235 | .0117 | .00038 | .00004 | .00173 | 6.59 | .00016 |
| %RSD | 474.01 | .48546 | 3.1388 | .32989 | 1.1734 | 1.0662 | 34.873 | 1.8500 | 4.8871 |
| #1 | .00109 | 1.2422 | .07318 | 3.5459 | .03249 | .00343 | -.00618 | 360.73 | .00345 |
| #2 | -.00059 | 1.2508 | .07650 | 3.5625 | .03195 | .00349 | -.00373 | 351.42 | .00322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03628** | **.00687** | **.05063** | **1.3351** | W **204.53** | **3.4078** | **120.76** | **6.0156** | F **40.892** |
| Stddev | .00008 | .00009 | .00025 | .0028 | .54 | .0038 | .58 | .0785 | .140 |
| %RSD | .22787 | 1.2408 | .49125 | .21039 | .26397 | .11094 | .48172 | 1.3053 | .34239 |
| #1 | .03633 | .00693 | .05045 | 1.3331 | 204.91 | 3.4105 | 120.34 | 5.9601 | 40.793 |
| #2 | .03622 | .00681 | .05080 | 1.3371 | 204.15 | 3.4052 | 121.17 | 6.0711 | 40.991 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | 100.00 | | | | 20.000 |
| Low Limit | | | | | -.50000 | | | | -.02000 |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2725.7** | **.09244** | **20.728** | **.00428** | **1830.7** | **-.00761** | **.01149** | **21.778** | **-.00199** |
| Stddev | 5.7 | .00050 | .095 | .00187 | 29.2 | .00121 | .00019 | .031 | .00067 |
| %RSD | .20976 | .54593 | .46020 | 43.705 | 1.5935 | 15.866 | 1.6504 | .14232 | 33.706 |
| #1 | 2729.7 | .09208 | 20.660 | .00560 | 1810.1 | -.00675 | .01162 | 21.800 | -.00246 |
| #2 | 2721.7 | .09280 | 20.795 | .00296 | 1851.3 | -.00846 | .01136 | 21.756 | -.00151 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74017** | **.00014** | **.04778** | **.00627** | **.06419** | **14.743** | **.01372** | **-.00828** |
| Stddev | .00168 | .00225 | .00043 | .00108 | .02626 | .068 | .00014 | .00079 |
| %RSD | .22677 | 1613.6 | .89899 | 17.292 | 40.915 | .46247 | 1.0284 | 9.5345 |
| #1 | .74136 | .00173 | .04748 | .00550 | .04562 | 14.695 | .01382 | -.00884 |
| #2 | .73898 | -.00145 | .04808 | .00703 | .08276 | 14.791 | .01362 | -.00772 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5646.8** | **76280.** | **5174.8** |
| Stddev | 4.0 | 610. | 23.8 |
| %RSD | .07138 | .79921 | .46029 |
| #1 | 5643.9 | 76711. | 5157.9 |
| #2 | 5649.6 | 75849. | 5191.6 |

Sample Name: 280-42322-K-1-A@10 Acquired: 5/21/2013 18:33:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174871 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.13971** | **.00832** | **.38389** | **.00353** | **.00031** | **.00051** | **37.359** | **.00036** |
| Stddev | .00054 | .00083 | .00178 | .00100 | .00011 | .00009 | .00010 | .024 | .00013 |
| %RSD | 458.67 | .59454 | 21.353 | .25937 | 3.1368 | 28.932 | 19.957 | .06512 | 37.252 |
| #1 | .00027 | .13912 | .00958 | .38459 | .00345 | .00037 | .00058 | 37.341 | .00026 |
| #2 | -.00050 | .14030 | .00706 | .38319 | .00361 | .00025 | .00044 | 37.376 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00393** | **.00084** | **.00411** | **.15835** | **20.541** | **.34058** | **12.984** | **.63891** | W **4.3276** |
| Stddev | .00009 | .00007 | .00003 | .00167 | .028 | .00100 | .012 | .00004 | .0052 |
| %RSD | 2.2252 | 7.7253 | .68907 | 1.0529 | .13721 | .29472 | .09113 | .00696 | .11975 |
| #1 | .00399 | .00080 | .00409 | .15717 | 20.561 | .34129 | 12.992 | .63888 | 4.3239 |
| #2 | .00387 | .00089 | .00413 | .15952 | 20.521 | .33987 | 12.975 | .63894 | 4.3312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | 2.0000 |
| Low Limit | | | | | | | | | -.01000 |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **274.21** | **.00971** | **2.0235** | **.00023** | **207.80** | **-.00165** | **.00169** | **2.1813** | **-.00001** |
| Stddev | .12 | .00028 | .0060 | .00068 | .08 | .00058 | .00203 | .0084 | .00062 |
| %RSD | .04231 | 2.9321 | .29807 | 293.15 | .03793 | 35.346 | 120.32 | .38678 | 10291. |
| #1 | 274.13 | .00951 | 2.0278 | -.00025 | 207.86 | -.00124 | .00025 | 2.1754 | -.00044 |
| #2 | 274.30 | .00992 | 2.0192 | .00071 | 207.75 | -.00207 | .00313 | 2.1873 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07626** | **-.00048** | **.00480** | **.00303** | **.00365** | **1.5025** | **.00543** | **-.00099** |
| Stddev | .00043 | .00053 | .00025 | .00151 | .01779 | .0007 | .00036 | .00059 |
| %RSD | .56089 | 110.12 | 5.2546 | 49.745 | 487.07 | .04824 | 6.6407 | 59.448 |
| #1 | .07656 | -.00011 | .00463 | .00409 | .01623 | 1.5020 | .00569 | -.00141 |
| #2 | .07595 | -.00086 | .00498 | .00196 | -.00892 | 1.5030 | .00518 | -.00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6205.0** | **83427.** | **5267.0** |
| Stddev | 35.5 | 230. | 27.0 |
| %RSD | .57242 | .27551 | .51235 |
| #1 | 6230.1 | 83264. | 5286.1 |
| #2 | 6179.9 | 83589. | 5248.0 |

Sample Name: 280-42379-A-4-A  Acquired: 5/21/2013 18:35:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174871  6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **4.4660** | **.00949** | **.02362** | **.36290** | **.00020** | **-.00427** | **181.69** | **.00045** |
| Stddev | .00007 | .0508 | .00236 | .00041 | .00466 | .00007 | .00261 | 2.11 | .00001 |
| %RSD | 22.657 | 1.1379 | 24.821 | 1.7260 | 1.2828 | 34.884 | 61.227 | 1.1638 | 2.7822 |
| #1 | -.00026 | 4.5019 | .00783 | .02391 | .36619 | .00025 | -.00242 | 183.19 | .00044 |
| #2 | -.00035 | 4.4301 | .01116 | .02334 | .35961 | .00015 | -.00611 | 180.20 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00431** | **.01032** | **.02130** | **15.500** | **1.8975** | **.00680** | **84.869** | **.80206** | **.00277** |
| Stddev | .00009 | .00013 | .00062 | .185 | .0034 | .00348 | .142 | .00128 | .00013 |
| %RSD | 2.1211 | 1.2304 | 2.8961 | 1.1954 | .17879 | 51.191 | .16716 | .16005 | 4.6268 |
| #1 | .00424 | .01041 | .02173 | 15.631 | 1.8999 | .00434 | 84.969 | .80297 | .00286 |
| #2 | .00437 | .01023 | .02086 | 15.369 | 1.8951 | .00927 | 84.768 | .80115 | .00268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **33.019** | **.01124** | **.66944** | **.01364** | **14.668** | **.00189** | **-.00086** | **16.689** | **.00010** |
| Stddev | .358 | .00009 | .00203 | .00157 | .098 | .00092 | .00169 | .076 | .00015 |
| %RSD | 1.0857 | .79732 | .30272 | 11.504 | .67020 | 48.611 | 196.19 | .45246 | 146.77 |
| #1 | 32.766 | .01118 | .67087 | .01475 | 14.737 | .00124 | .00033 | 16.743 | .00021 |
| #2 | 33.273 | .01130 | .66801 | .01253 | 14.598 | .00254 | -.00206 | 16.636 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20119** | **.00437** | **.11748** | **-.00072** | **-.00176** | **.01370** | **.04199** | **.00230** |
| Stddev | .00218 | .00270 | .00026 | .00010 | .01267 | .00049 | .00034 | .00009 |
| %RSD | 1.0841 | 61.662 | .22505 | 13.524 | 721.31 | 3.5712 | .81805 | 4.1183 |
| #1 | .20273 | .00628 | .11767 | -.00079 | .00720 | .01336 | .04175 | .00237 |
| #2 | .19965 | .00247 | .11730 | -.00065 | -.01072 | .01405 | .04224 | .00223 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6162.5** | **82462.** | **5262.5** |
| Stddev | 1.9 | 569. | 68.9 |
| %RSD | .03031 | .69022 | 1.3086 |
| #1 | 6161.2 | 82060. | 5213.8 |
| #2 | 6163.8 | 82865. | 5311.2 |

Sample Name: 280-42379-A-4-Asd@5 Acquired: 5/21/2013 18:38:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174871 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.90332** | **.00343** | **.00809** | **.07433** | **-.00004** | **-.00076** | **37.063** | **.00021** |
| Stddev | .00009 | .00067 | .00219 | .00037 | .00015 | .00003 | .00320 | .130 | .00002 |
| %RSD | 128.49 | .07404 | 63.638 | 4.5956 | .20663 | 89.190 | 421.35 | .35121 | 10.741 |
| #1 | -.00013 | .90379 | .00498 | .00783 | .07443 | -.00001 | .00150 | 37.155 | .00019 |
| #2 | -.00001 | .90285 | .00189 | .00835 | .07422 | -.00006 | -.00302 | 36.971 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.00216** | **.00364** | **3.2235** | **.55481** | **.00103** | **17.341** | **.16495** | **.00084** |
| Stddev | .00003 | .00010 | .00066 | .0018 | .04120 | .00078 | .015 | .00011 | .00005 |
| %RSD | 4.5744 | 4.8253 | 18.184 | .05644 | 7.4256 | 75.573 | .08821 | .06783 | 5.5356 |
| #1 | .00056 | .00223 | .00411 | 3.2248 | .52568 | .00158 | 17.352 | .16503 | .00087 |
| #2 | .00060 | .00209 | .00317 | 3.2222 | .58395 | .00048 | 17.330 | .16487 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.6731** | **.00225** | **.13525** | **.00101** | **2.9900** | **-.00008** | **-.00207** | **3.3440** | **-.00065** |
| Stddev | .0101 | .00043 | .00214 | .00054 | .0026 | .00084 | .00183 | .0326 | .00006 |
| %RSD | .15150 | 19.372 | 1.5819 | 52.954 | .08684 | 994.71 | 88.045 | .97420 | 9.3437 |
| #1 | 6.6802 | .00255 | .13676 | .00139 | 2.9882 | -.00068 | -.00337 | 3.3670 | -.00069 |
| #2 | 6.6659 | .00194 | .13374 | .00063 | 2.9919 | .00051 | -.00078 | 3.3210 | -.00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04123** | **-.00032** | **.02415** | **.00091** | **-.03585** | **.00328** | **.01257** | **-.00084** |
| Stddev | .00032 | .00124 | .00002 | .00003 | .00175 | .00035 | .00022 | .00311 |
| %RSD | .78494 | 392.81 | .06824 | 3.8609 | 4.8811 | 10.793 | 1.7503 | 370.33 |
| #1 | .04146 | -.00119 | .02416 | .00093 | -.03461 | .00303 | .01241 | -.00304 |
| #2 | .04100 | .00056 | .02414 | .00088 | -.03709 | .00353 | .01272 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6366.5** | **85682.** | **5238.6** |
| Stddev | .3 | 101. | 42.0 |
| %RSD | .00402 | .11745 | .80222 |
| #1 | 6366.7 | 85753. | 5208.9 |
| #2 | 6366.3 | 85611. | 5268.3 |

Sample Name: 280-42379-A-4-B MS  Acquired: 5/21/2013 18:40:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174871 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05303** | **13.411** | **.91214** | **.92899** | **2.2290** | **.04360** | **1.9193** | **217.75** | **.09687** |
| Stddev | .00023 | .120 | .00032 | .00202 | .0179 | .00044 | .0074 | 1.97 | .00037 |
| %RSD | .43984 | .89151 | .03488 | .21716 | .80307 | 1.0109 | .38375 | .90479 | .37694 |
| #1 | .05286 | 13.496 | .91192 | .93041 | 2.2417 | .04391 | 1.9245 | 219.15 | .09713 |
| #2 | .05319 | 13.327 | .91237 | .92756 | 2.2163 | .04329 | 1.9140 | 216.36 | .09662 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45376** | **.19545** | **.24791** | **17.139** | **49.837** | **.95832** | **126.45** | **1.2218** | **.89926** |
| Stddev | .00016 | .00002 | .00027 | .124 | .544 | .00915 | .15 | .0014 | .00201 |
| %RSD | .03544 | .01231 | .10869 | .72283 | 1.0915 | .95503 | .12071 | .11645 | .22364 |
| #1 | .45388 | .19543 | .24772 | 17.226 | 50.222 | .96479 | 126.34 | 1.2208 | .90068 |
| #2 | .45365 | .19547 | .24810 | 17.051 | 49.453 | .95185 | 126.55 | 1.2228 | .89784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.446** | **.44918** | **9.7109** | **.46883** | **14.217** | **.46824** | **1.7940** | **37.139** | **1.7703** |
| Stddev | .459 | .00001 | .0236 | .00300 | .014 | .00014 | .0057 | .362 | .0014 |
| %RSD | .57828 | .00289 | .24316 | .64006 | .09902 | .02892 | .31901 | .97539 | .07704 |
| #1 | 79.770 | .44917 | 9.7276 | .47096 | 14.227 | .46834 | 1.7900 | 37.395 | 1.7693 |
| #2 | 79.121 | .44919 | 9.6942 | .46671 | 14.207 | .46814 | 1.7981 | 36.883 | 1.7713 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0782** | **.94896** | **1.0975** | **1.7990** | **1.8788** | **.47654** | **.48414** | **.46292** |
| Stddev | .0102 | .00070 | .0006 | .0006 | .0298 | .00061 | .00031 | .00647 |
| %RSD | .94613 | .07424 | .05545 | .03562 | 1.5881 | .12698 | .06380 | 1.3967 |
| #1 | 1.0854 | .94945 | 1.0979 | 1.7986 | 1.8577 | .47612 | .48436 | .46749 |
| #2 | 1.0709 | .94846 | 1.0970 | 1.7995 | 1.8999 | .47697 | .48392 | .45834 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6042.3** | **81128.** | **5193.5** |
| Stddev | 28.6 | 11. | 52.6 |
| %RSD | .47277 | .01381 | 1.0122 |
| #1 | 6022.1 | 81136. | 5156.3 |
| #2 | 6062.5 | 81120. | 5230.6 |

Sample Name: 280-42379-A-4-C MSD Acquired: 5/21/2013 18:42:44 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174871 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05273** | **13.147** | **.91578** | **.93034** | **2.2324** | **.04377** | **1.9287** | **217.45** | **.09728** |
| Stddev | .00090 | .056 | .00584 | .00062 | .0089 | .00007 | .0000 | 1.06 | .00018 |
| %RSD | 1.6976 | .42737 | .63761 | .06671 | .39756 | .15573 | .00146 | .48539 | .18957 |
| #1 | .05337 | 13.107 | .91165 | .92990 | 2.2262 | .04372 | 1.9287 | 216.70 | .09741 |
| #2 | .05210 | 13.186 | .91991 | .93078 | 2.2387 | .04382 | 1.9288 | 218.19 | .09715 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45573** | **.19581** | **.24797** | **17.047** | **50.165** | **.96410** | **126.50** | **1.2237** | **.90265** |
| Stddev | .00032 | .00026 | .00057 | .077 | .211 | .00263 | .18 | .0028 | .00081 |
| %RSD | .06916 | .13412 | .22792 | .45182 | .42149 | .27259 | .14261 | .22781 | .08927 |
| #1 | .45595 | .19562 | .24757 | 16.993 | 50.015 | .96224 | 126.63 | 1.2257 | .90322 |
| #2 | .45551 | .19599 | .24837 | 17.102 | 50.314 | .96596 | 126.38 | 1.2218 | .90208 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.560** | **.45180** | **9.7323** | **.47016** | **14.096** | **.46774** | **1.7999** | **36.810** | **1.7696** |
| Stddev | .160 | .00013 | .0018 | .00203 | .038 | .00134 | .0099 | .130 | .0049 |
| %RSD | .20153 | .02951 | .01871 | .43077 | .27293 | .28545 | .54970 | .35202 | .27493 |
| #1 | 79.674 | .45189 | 9.7336 | .46872 | 14.123 | .46869 | 1.8069 | 36.718 | 1.7661 |
| #2 | 79.447 | .45171 | 9.7310 | .47159 | 14.069 | .46680 | 1.7929 | 36.901 | 1.7730 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0814** | **.95504** | **1.0960** | **1.8075** | **1.9080** | **.47956** | **.48803** | **.46147** |
| Stddev | .0010 | .00124 | .0014 | .0014 | .0061 | .00093 | .00082 | .00434 |
| %RSD | .08839 | .12992 | .12499 | .07533 | .31772 | .19437 | .16892 | .94078 |
| #1 | 1.0807 | .95592 | 1.0970 | 1.8084 | 1.9123 | .48022 | .48862 | .46454 |
| #2 | 1.0821 | .95416 | 1.0950 | 1.8065 | 1.9038 | .47890 | .48745 | .45840 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6045.6** | **81147.** | **5197.6** |
| Stddev | 6.0 | 424. | 61.1 |
| %RSD | .09914 | .52205 | 1.1760 |
| #1 | 6049.8 | 80847. | 5240.8 |
| #2 | 6041.3 | 81446. | 5154.4 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 18:44:55 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **49.855** | **-.00058** | **.00583** | **.00083** | **-.00009** | **1.0003** | **.00460** | **-.00074** | **.00199** | **-.00008** | **.00068** | **49.107** |
| Stddev | .00030 | .323 | .00062 | .00031 | .00007 | .00001 | .0013 | .00060 | .00003 | .00036 | .00003 | .00069 | .190 |
| %RSD | 16.918 | .64710 | 105.59 | 5.2672 | 8.0389 | 9.3512 | .13164 | 13.110 | 3.8410 | 18.004 | 34.724 | 101.40 | .38601 |
| #1 | .00195 | 50.083 | -.00015 | .00604 | .00088 | -.00008 | 1.0013 | .00503 | -.00076 | .00174 | -.00010 | .00117 | 49.241 |
| #2 | .00154 | 49.627 | -.00102 | .00561 | .00078 | -.00009 | .99939 | .00418 | -.00072 | .00224 | -.00006 | .00019 | 48.973 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30625** | **-.00212** | **-.00358** | **-.00062** | **-.00139** | **255.79** | **.00048** | **.00469** | **.00160** | **5.0923** | **.00034** | **.00318** | **.01302** |
| Stddev | .05405 | .00114 | .00071 | .00009 | .00025 | 2.22 | .00006 | .00045 | .00039 | .0017 | .00004 | .00049 | .00229 |
| %RSD | 17.648 | 53.873 | 19.697 | 14.283 | 17.671 | .86634 | 12.502 | 9.5861 | 24.629 | .03403 | 13.190 | 15.480 | 17.583 |
| #1 | .34447 | -.00131 | -.00308 | -.00055 | -.00122 | 257.36 | .00053 | .00501 | .00132 | 5.0936 | .00037 | .00283 | .01464 |
| #2 | .26804 | -.00293 | -.00408 | -.00068 | -.00157 | 254.22 | .00044 | .00437 | .00187 | 5.0911 | .00030 | .00353 | .01140 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00021** | **5.1371** | **.00252** | **-.00094** | **10.054** | **-.00030** | **.00322** | **-.03695** |
| Stddev | .00031 | .00010 | .0122 | .00048 | .00134 | .051 | .00034 | .00030 | .00132 |
| %RSD | 50.476 | 48.990 | .23696 | 18.880 | 142.03 | .50248 | 115.52 | 9.4368 | 3.5685 |
| #1 | .00040 | .00028 | 5.1285 | .00218 | -.00189 | 10.018 | -.00005 | .00344 | -.03601 |
| #2 | .00084 | .00014 | 5.1457 | .00286 | .00000 | 10.089 | -.00054 | .00301 | -.03788 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6247.3** | **83110.** | **5208.9** |
| Stddev | 1.4 | 129. | 50.2 |
| %RSD | .02276 | .15546 | .96371 |
| #1 | 6246.3 | 83019. | 5173.4 |
| #2 | 6248.3 | 83202. | 5244.4 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 18:47:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52209** | **.49975** | **.99125** | **.49248** | **.51268** | **.47676** | **.00306** | **5.0200** | **.51137** | **.51877** | **.50054** | **.49557** | **2.4503** | **51.615** |
| Stddev | .00098 | .00202 | .00498 | .00019 | .00421 | .00338 | .00033 | .0001 | .00010 | .00001 | .00050 | .00161 | .0110 | .312 |
| %RSD | .18740 | .40472 | .50191 | .03820 | .82206 | .70804 | 10.877 | .00128 | .01994 | .00174 | .10005 | .32497 | .44984 | .60508 |
| #1 | .52279 | .50118 | .99477 | .49235 | .51566 | .47915 | .00330 | 5.0200 | .51144 | .51876 | .50089 | .49671 | 2.4581 | 51.836 |
| #2 | .52140 | .49832 | .98773 | .49261 | .50970 | .47438 | .00282 | 5.0201 | .51130 | .51877 | .50018 | .49443 | 2.4425 | 51.394 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0329** | **20.160** | **.51298** | **.49574** | **5.3889** | **.51042** | **.96427** | **1.0304** | **.07821** | **1.0139** | **.97573** | **4.9109** | **1.0003** | **.48870** |
| Stddev | .0058 | .052 | .00231 | .00007 | .0243 | .00074 | .00575 | .0010 | .00321 | .0022 | .00110 | .0170 | .0035 | .00403 |
| %RSD | .55756 | .26023 | .45079 | .01348 | .44999 | .14433 | .59596 | .10206 | 4.1071 | .21562 | .11253 | .34609 | .35352 | .82384 |
| #1 | 1.0370 | 20.197 | .51461 | .49578 | 5.4061 | .51094 | .96834 | 1.0312 | .08048 | 1.0124 | .97651 | 4.8988 | 1.0028 | .49155 |
| #2 | 1.0288 | 20.123 | .51134 | .49569 | 5.3718 | .50990 | .96021 | 1.0297 | .07594 | 1.0155 | .97496 | 4.9229 | .99778 | .48585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00263** | **.51629** | **1.0192** | **.00390** | **.49681** | **.51385** | **.50333** |
| Stddev | .00201 | .00172 | .0012 | .01106 | .00240 | .00049 | .00114 |
| %RSD | 76.514 | .33327 | .11814 | 283.27 | .48330 | .09504 | .22615 |
| #1 | .00121 | .51750 | 1.0184 | .01172 | .49851 | .51351 | .50413 |
| #2 | .00405 | .51507 | 1.0201 | -.00392 | .49512 | .51420 | .50252 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6426.5** | **85835.** | **5269.0** |
| Stddev | 28.6 | 121. | 31.6 |
| %RSD | .44560 | .14131 | .59995 |
| #1 | 6406.3 | 85749. | 5246.6 |
| #2 | 6446.8 | 85920. | 5291.3 |

Sample Name: CCB Acquired: 5/21/2013 18:49:32 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **-.00064** | **-.00037** | F **.00349** | **.00016** | **-.00005** | **-.00172** | **-.00094** | **.00008** | **-.00006** | **-.00014** | **-.00096** |
| Stddev | .00020 | .00005 | .00066 | .00019 | .00011 | .00004 | .00370 | .00085 | .00001 | .00006 | .00014 | .00008 |
| %RSD | 144.03 | 8.3849 | 175.36 | 5.5546 | 67.378 | 86.351 | 214.52 | 91.311 | 6.6200 | 91.903 | 99.354 | 7.9485 |
| #1 | .00028 | -.00060 | .00009 | .00363 | .00024 | -.00002 | -.00434 | -.00154 | .00007 | -.00002 | -.00004 | -.00101 |
| #2 | -.00000 | -.00068 | -.00084 | .00335 | .00008 | -.00008 | .00089 | -.00033 | .00008 | -.00010 | -.00024 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **.14458** | **.00057** | **.00236** | **.00015** | **.00039** | F **.25779** | **-.00031** | **.00205** | **.00010** | **.07239** | **.00278** |
| Stddev | .00357 | .00077 | .00018 | .00220 | .00001 | .00019 | .01309 | .00032 | .00085 | .00004 | .00557 | .00238 |
| %RSD | 711.09 | .53141 | 31.111 | 93.433 | 6.3380 | 47.743 | 5.0794 | 103.03 | 41.296 | 39.288 | 7.6892 | 85.614 |
| #1 | .00202 | .14513 | .00069 | .00080 | .00015 | .00053 | .26705 | -.00054 | .00265 | .00013 | .07633 | .00447 |
| #2 | -.00302 | .14404 | .00044 | .00392 | .00014 | .00026 | .24853 | -.00008 | .00145 | .00008 | .06846 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | .10000 | | | | | |
| Low Limit | | | | | | | -.10000 | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **-.00392** | **-.00055** | **-.00005** | **-.00004** | **.00018** | **.00119** | **.01029** | **-.00008** | **.00275** | **-.00151** |
| Stddev | .00021 | .00427 | .00014 | .00002 | .00045 | .00016 | .00049 | .01854 | .00027 | .00015 | .00204 |
| %RSD | 30.310 | 108.83 | 26.274 | 46.764 | 1018.6 | 89.336 | 40.918 | 180.27 | 346.77 | 5.3022 | 134.82 |
| #1 | -.00084 | -.00090 | -.00045 | -.00003 | -.00036 | .00030 | .00154 | .02340 | -.00027 | .00285 | -.00296 |
| #2 | -.00055 | -.00694 | -.00065 | -.00006 | .00028 | .00007 | .00085 | -.00283 | .00011 | .00264 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6471.2** | **86900.** | **5295.2** |
| Stddev | .4 | 163. | 13.9 |
| %RSD | .00672 | .18766 | .26257 |
| #1 | 6470.9 | 87015. | 5305.0 |
| #2 | 6471.5 | 86785. | 5285.3 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 18:52:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01036** | **.10266** | **.01563** | **.09899** | **.01063** | **.00086** | **.10744** | **.20285** | **.00550** | **.01054** | **.01019** |
| Stddev | .00056 | .00055 | .00094 | .00005 | .00006 | .00003 | .00163 | .00025 | .00003 | .00018 | .00015 |
| %RSD | 5.4494 | .53559 | 6.0004 | .05262 | .59493 | 3.9551 | 1.5135 | .12309 | .55957 | 1.6944 | 1.5023 |
| #1 | .00996 | .10305 | .01496 | .09896 | .01067 | .00088 | .10859 | .20303 | .00548 | .01067 | .01008 |
| #2 | .01076 | .10228 | .01629 | .09903 | .01058 | .00083 | .10629 | .20267 | .00552 | .01041 | .01030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01435** | **.09857** | **3.2813** | W **.01218** | **.20578** | **.01054** | **.02019** | W **1.2514** | **.04142** | **2.8455** | **.00971** |
| Stddev | .00002 | .00332 | .0875 | .00030 | .00544 | .00012 | .00018 | .0276 | .00000 | .0117 | .00102 |
| %RSD | .14475 | 3.3703 | 2.6650 | 2.4372 | 2.6448 | 1.1005 | .89003 | 2.2042 | .00026 | .41050 | 10.536 |
| #1 | .01434 | .10092 | 3.3431 | .01197 | .20193 | .01045 | .02006 | 1.2709 | .04142 | 2.8538 | .00899 |
| #2 | .01437 | .09622 | 3.2195 | .01239 | .20962 | .01062 | .02031 | 1.2319 | .04142 | 2.8373 | .01043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .01000 | | | | 1.0000 | | | |
| Range | | | | 20.000% | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07695** | **.01126** | **.01363** | **.48853** | **.10082** | **.00982** | **.01581** | **.01010** | **.01611** | W **.07542** | **.00964** |
| Stddev | .00320 | .00200 | .00006 | .02979 | .00026 | .00010 | .00250 | .00037 | .00062 | .03211 | .00063 |
| %RSD | 4.1570 | 17.721 | .41212 | 6.0985 | .25897 | 1.0398 | 15.822 | 3.6574 | 3.8556 | 42.572 | 6.4997 |
| #1 | .07922 | .00985 | .01359 | .50959 | .10063 | .00989 | .01405 | .00984 | .01567 | .09812 | .00920 |
| #2 | .07469 | .01267 | .01367 | .46746 | .10100 | .00975 | .01758 | .01037 | .01655 | .05272 | .01009 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02370** | **.01492** |
| Stddev | .00001 | .00318 |
| %RSD | .05043 | 21.309 |
| #1 | .02369 | .01717 |
| #2 | .02370 | .01267 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6413.8** | **86232.** | **5311.7** |
| Stddev | 11.3 | 428. | 17.9 |
| %RSD | .17584 | .49672 | .33622 |
| #1 | 6405.8 | 86535. | 5324.3 |
| #2 | 6421.8 | 85929. | 5299.0 |

Sample Name: MB 280-174890/1-A Acquired: 5/21/2013 18:54:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.00179** | **.00291** | **.00328** | **.00036** | **-.00018** | **.00016** | **.00101** | **.00024** |
| Stddev | .00021 | .00004 | .00193 | .00031 | .00038 | .00006 | .00022 | .00099 | .00009 |
| %RSD | 147.30 | 2.4544 | 66.307 | 9.4419 | 106.65 | 32.729 | 139.45 | 98.357 | 35.443 |
| #1 | .00001 | .00182 | .00428 | .00306 | .00009 | -.00023 | .00000 | .00031 | .00018 |
| #2 | -.00029 | .00176 | .00155 | .00350 | .00063 | -.00014 | .00031 | .00171 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00002** | **-.00060** | W **.03057** | **.10524** | **.00189** | **.00303** | **.00040** | **.00005** |
| Stddev | .00011 | .00003 | .00030 | .00133 | .05610 | .00214 | .00108 | .00003 | .00018 |
| %RSD | 171.18 | 209.14 | 50.257 | 4.3477 | 53.305 | 113.03 | 35.623 | 6.7622 | 343.95 |
| #1 | -.00014 | -.00001 | -.00039 | .02963 | .14490 | .00038 | .00380 | .00038 | -.00008 |
| #2 | .00001 | .00004 | -.00081 | .03151 | .06557 | .00341 | .00227 | .00042 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .03000 | | | | | |
| Low Limit | | | | -.05000 | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19568** | **-.00016** | F **.18199** | **-.00016** | **.06304** | **-.00040** | **.00111** | **.00814** | **.00041** |
| Stddev | .00814 | .00014 | .00190 | .00138 | .00033 | .00048 | .00053 | .00444 | .00044 |
| %RSD | 4.1573 | 88.975 | 1.0430 | 854.52 | .52738 | 122.31 | 48.136 | 54.475 | 105.36 |
| #1 | .20144 | -.00026 | .18333 | .00081 | .06328 | -.00005 | .00148 | .00501 | .00072 |
| #2 | .18993 | -.00006 | .18065 | -.00114 | .06281 | -.00074 | .00073 | .01128 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | |
| Low Limit | | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00000** | **.00089** | **-.00001** | **.00020** | **-.01243** | **.00034** | **.00292** | **-.00100** |
| Stddev | .00008 | .00235 | .00025 | .00002 | .01159 | .00023 | .00025 | .00249 |
| %RSD | 2145.9 | 263.99 | 1825.8 | 8.0270 | 93.258 | 67.027 | 8.4293 | 249.73 |
| #1 | -.00006 | -.00077 | .00016 | .00019 | -.00423 | .00018 | .00309 | .00076 |
| #2 | .00005 | .00255 | -.00019 | .00022 | -.02063 | .00050 | .00274 | -.00276 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6348.0** | **85802.** | **5267.6** |
| Stddev | 18.1 | 324. | 17.0 |
| %RSD | .28564 | .37757 | .32267 |
| #1 | 6360.9 | 86031. | 5279.6 |
| #2 | 6335.2 | 85573. | 5255.6 |

Sample Name: LCS 280-174890/2-A Acquired: 5/21/2013 18:56:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.05811** | **2.0170** | **1.0454** | **1.0442** | **2.1709** | **.05065** | **2.1810** | **51.558** | F **.11048** |
| Stddev | .00022 | .0035 | .0037 | .0008 | .0008 | .00006 | .0015 | .165 | .00024 |
| %RSD | .38524 | .17264 | .35842 | .07845 | .03543 | .11609 | .06786 | .32057 | .21859 |
| #1 | .05827 | 2.0195 | 1.0428 | 1.0437 | 2.1704 | .05069 | 2.1799 | 51.675 | .11065 |
| #2 | .05795 | 2.0146 | 1.0481 | 1.0448 | 2.1715 | .05061 | 2.1820 | 51.441 | .11030 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | .05750 | | | | | | | | .11000 |
| Low Limit | .04300 | | | | | | | | .08700 |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53416** | **.21112** | **.26066** | **1.0420** | **54.150** | **1.0815** | **52.595** | **.53273** | **1.0429** |
| Stddev | .00005 | .00027 | .00013 | .0089 | .230 | .0032 | .039 | .00109 | .0004 |
| %RSD | .00891 | .12767 | .05030 | .85734 | .42528 | .29933 | .07454 | .20430 | .03990 |
| #1 | .53412 | .21131 | .26056 | 1.0484 | 54.313 | 1.0838 | 52.622 | .53350 | 1.0432 |
| #2 | .53419 | .21093 | .26075 | 1.0357 | 53.987 | 1.0792 | 52.567 | .53196 | 1.0426 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **55.825** | **.52181** | **10.611** | **.53504** | **.04632** | F **.54135** | **2.0858** | **10.385** | **2.0778** |
| Stddev | .655 | .00071 | .001 | .00098 | .00048 | .00015 | .0036 | .006 | .0062 |
| %RSD | 1.1734 | .13589 | .01036 | .18288 | 1.0380 | .02745 | .17145 | .06041 | .30040 |
| #1 | 56.288 | .52231 | 10.610 | .53573 | .04598 | .54146 | 2.0884 | 10.390 | 2.0822 |
| #2 | 55.361 | .52131 | 10.612 | .53434 | .04666 | .54125 | 2.0833 | 10.381 | 2.0734 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .54000 | | | |
| Low Limit | | | | | | .44000 | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0234** | **1.0965** | **1.0822** | **2.1119** | **2.2084** | **.52848** | **.53077** | **.51952** |
| Stddev | .0038 | .0034 | .0010 | .0026 | .0303 | .00163 | .00339 | .00187 |
| %RSD | .37492 | .30984 | .09019 | .12136 | 1.3706 | .30753 | .63871 | .35945 |
| #1 | 1.0261 | 1.0989 | 1.0829 | 2.1137 | 2.1870 | .52962 | .53317 | .52084 |
| #2 | 1.0207 | 1.0941 | 1.0815 | 2.1101 | 2.2298 | .52733 | .52837 | .51820 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6140.5** | **82394.** | **5183.4** |
| Stddev | 4.1 | 287. | 45.5 |
| %RSD | .06727 | .34838 | .87747 |
| #1 | 6143.4 | 82191. | 5151.2 |
| #2 | 6137.6 | 82597. | 5215.5 |

Sample Name: 280-42364-H-1-C Acquired: 5/21/2013 18:59:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00269** | **.00100** | **.03345** | **.15305** | **-.00003** | **-.00326** | **66.407** | **.00029** |
| Stddev | .00042 | .00045 | .00321 | .00016 | .00039 | .00000 | .00074 | .111 | .00006 |
| %RSD | 105.71 | 16.668 | 321.39 | .48411 | .25466 | 6.1363 | 22.717 | .16768 | 19.452 |
| #1 | .00010 | .00301 | .00327 | .03334 | .15278 | -.00003 | -.00379 | 66.328 | .00033 |
| #2 | .00070 | .00237 | -.00127 | .03357 | .15333 | -.00003 | -.00274 | 66.485 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **.00675** | **.00109** | **.05487** | **2.5256** | **.00247** | **21.236** | **.00061** | **.00128** |
| Stddev | .00003 | .00017 | .00086 | .00201 | .0223 | .00001 | .100 | .00004 | .00049 |
| %RSD | 21.640 | 2.4904 | 78.836 | 3.6569 | .88242 | .32812 | .46975 | 7.2813 | 38.399 |
| #1 | -.00014 | .00664 | .00170 | .05345 | 2.5414 | .00247 | 21.166 | .00058 | .00093 |
| #2 | -.00018 | .00687 | .00048 | .05629 | 2.5098 | .00246 | 21.307 | .00064 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.001** | **-.00016** | **.21479** | **.00189** | **11.130** | **.00099** | **.00255** | **10.072** | **-.00058** |
| Stddev | .535 | .00006 | .00136 | .00064 | .029 | .00038 | .00018 | .030 | .00024 |
| %RSD | 2.5485 | 35.962 | .63478 | 33.831 | .26322 | 38.052 | 7.2201 | .29312 | 41.809 |
| #1 | 21.379 | -.00012 | .21576 | .00235 | 11.150 | .00073 | .00242 | 10.051 | -.00041 |
| #2 | 20.623 | -.00020 | .21383 | .00144 | 11.109 | .00126 | .00268 | 10.093 | -.00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29524** | **-.00014** | **-.00005** | **.00184** | **-.00369** | **.00355** | **.06470** | **.00027** |
| Stddev | .00076 | .00253 | .00011 | .00080 | .03460 | .00042 | .00036 | .00029 |
| %RSD | .25642 | 1754.6 | 207.99 | 43.562 | 938.16 | 11.876 | .55921 | 109.80 |
| #1 | .29577 | .00164 | .00002 | .00240 | .02078 | .00384 | .06445 | .00006 |
| #2 | .29470 | -.00193 | -.00013 | .00127 | -.02815 | .00325 | .06496 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6180.8** | **82883.** | **5194.3** |
| Stddev | 8.7 | 220. | .9 |
| %RSD | .14084 | .26598 | .01821 |
| #1 | 6187.0 | 83039. | 5195.0 |
| #2 | 6174.7 | 82727. | 5193.6 |

Sample Name: 280-42364-H-1-Csd@5 Acquired: 5/21/2013 19:01:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.00453** | **-.00034** | **.00921** | **.03300** | **-.00007** | **.00033** | **14.365** | **.00013** |
| Stddev | .00078 | .00025 | .00499 | .00063 | .00015 | .00005 | .00269 | .063 | .00023 |
| %RSD | 232.81 | 5.5389 | 1474.7 | 6.8132 | .46372 | 68.279 | 822.40 | .44193 | 176.61 |
| #1 | -.00089 | .00435 | -.00386 | .00876 | .03311 | -.00011 | -.00158 | 14.410 | .00029 |
| #2 | .00022 | .00471 | .00319 | .00965 | .03290 | -.00004 | .00223 | 14.321 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00130** | **-.00039** | **.01850** | **.55211** | **-.00149** | **4.6113** | **.00024** | **.00020** |
| Stddev | .00002 | .00006 | .00038 | .00096 | .00159 | .00153 | .0039 | .00009 | .00010 |
| %RSD | 204.76 | 4.8105 | 97.114 | 5.2137 | .28829 | 102.82 | .08379 | 38.611 | 49.992 |
| #1 | -.00002 | .00126 | -.00012 | .01918 | .55323 | -.00257 | 4.6086 | .00030 | .00027 |
| #2 | .00000 | .00135 | -.00066 | .01782 | .55098 | -.00041 | 4.6141 | .00017 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.4524** | **-.00019** | **.04709** | **-.00008** | **2.3469** | **-.00058** | **.00140** | **2.1223** | **.00000** |
| Stddev | .0012 | .00021 | .00007 | .00054 | .0060 | .00146 | .00086 | .0108 | .00001 |
| %RSD | .02728 | 107.46 | .14219 | 644.25 | .25364 | 252.48 | 61.074 | .50960 | 221.37 |
| #1 | 4.4516 | -.00034 | .04705 | -.00047 | 2.3427 | -.00161 | .00080 | 2.1147 | .00001 |
| #2 | 4.4533 | -.00005 | .04714 | .00030 | 2.3511 | .00045 | .00200 | 2.1300 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06432** | **.00104** | **-.00010** | **.00087** | **-.00240** | **.00092** | **.01688** | **-.00061** |
| Stddev | .00047 | .00050 | .00001 | .00142 | .03538 | .00036 | .00039 | .00012 |
| %RSD | .73467 | 47.663 | 6.4249 | 163.90 | 1473.8 | 39.613 | 2.2980 | 19.253 |
| #1 | .06466 | .00069 | -.00010 | .00187 | .02262 | .00118 | .01660 | -.00052 |
| #2 | .06399 | .00139 | -.00011 | -.00014 | -.02742 | .00066 | .01715 | -.00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6302.1** | **84455.** | **5155.2** |
| Stddev | 11.8 | 133. | 30.6 |
| %RSD | .18651 | .15776 | .59407 |
| #1 | 6310.4 | 84361. | 5133.5 |
| #2 | 6293.8 | 84549. | 5176.9 |

Sample Name: 280-42364-H-1-D MS  Acquired: 5/21/2013 19:03:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05417** | **1.8242** | **.96088** | **.99041** | **2.1253** | **.04607** | **2.0090** | **112.45** | **.10127** |
| Stddev | .00086 | .0063 | .00149 | .00228 | .0076 | .00017 | .0064 | .59 | .00008 |
| %RSD | 1.5888 | .34609 | .15466 | .22977 | .35844 | .36199 | .31832 | .52380 | .08296 |
| #1 | .05478 | 1.8198 | .96193 | .98880 | 2.1307 | .04619 | 2.0045 | 112.87 | .10133 |
| #2 | .05357 | 1.8287 | .95983 | .99202 | 2.1199 | .04595 | 2.0136 | 112.04 | .10121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48038** | **.19718** | **.23940** | **.92590** | **52.349** | **.99856** | **68.413** | **.48124** | **.95341** |
| Stddev | .00005 | .00059 | .00095 | .00294 | .425 | .00609 | .115 | .00081 | .00199 |
| %RSD | .01113 | .29709 | .39530 | .31800 | .81208 | .60984 | .16842 | .16762 | .20884 |
| #1 | .48034 | .19677 | .23874 | .92798 | 52.650 | 1.0029 | 68.332 | .48067 | .95201 |
| #2 | .48042 | .19760 | .24007 | .92382 | 52.049 | .99425 | 68.495 | .48181 | .95482 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **71.045** | **.46908** | **9.8157** | **.48677** | **11.080** | **.49771** | **1.9114** | **19.432** | **1.8979** |
| Stddev | .367 | .00082 | .0355 | .00164 | .004 | .00027 | .0029 | .126 | .0031 |
| %RSD | .51605 | .17438 | .36147 | .33600 | .03386 | .05496 | .15295 | .64711 | .16073 |
| #1 | 71.304 | .46850 | 9.7906 | .48561 | 11.082 | .49752 | 1.9093 | 19.521 | 1.8957 |
| #2 | 70.785 | .46965 | 9.8408 | .48793 | 11.077 | .49790 | 1.9135 | 19.343 | 1.9000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2262** | **.99835** | **.98605** | **1.9191** | **2.0245** | **.48515** | **.53855** | **.47317** |
| Stddev | .0100 | .00082 | .00103 | .0012 | .0393 | .00003 | .00063 | .00280 |
| %RSD | .81600 | .08221 | .10446 | .06398 | 1.9432 | .00718 | .11732 | .59163 |
| #1 | 1.2333 | .99777 | .98532 | 1.9182 | 1.9967 | .48513 | .53900 | .47515 |
| #2 | 1.2191 | .99893 | .98678 | 1.9199 | 2.0523 | .48518 | .53811 | .47119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6066.4** | **81291.** | **5108.2** |
| Stddev | 13.3 | 130. | 23.0 |
| %RSD | .21983 | .16012 | .44935 |
| #1 | 6075.8 | 81383. | 5092.0 |
| #2 | 6057.0 | 81199. | 5124.4 |

Sample Name: 280-42364-H-1-E MSD Acquired: 5/21/2013 19:06:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05338** | **1.7908** | **.94464** | **.97594** | **2.0713** | **.04510** | **1.9856** | **109.03** | **.09963** |
| Stddev | .00052 | .0045 | .00160 | .00174 | .0032 | .00049 | .0019 | .19 | .00022 |
| %RSD | .96566 | .25280 | .16949 | .17847 | .15534 | 1.0842 | .09570 | .17372 | .21628 |
| #1 | .05374 | 1.7940 | .94577 | .97717 | 2.0736 | .04544 | 1.9870 | 109.16 | .09948 |
| #2 | .05301 | 1.7876 | .94351 | .97471 | 2.0691 | .04475 | 1.9843 | 108.90 | .09979 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47114** | **.19361** | **.23438** | **.90999** | **51.160** | **.97637** | **66.694** | **.47165** | **.93499** |
| Stddev | .00068 | .00016 | .00064 | .00088 | .032 | .00345 | .026 | .00054 | .00015 |
| %RSD | .14334 | .08500 | .27297 | .09665 | .06318 | .35289 | .03893 | .11471 | .01636 |
| #1 | .47161 | .19350 | .23483 | .90937 | 51.183 | .97881 | 66.676 | .47127 | .93510 |
| #2 | .47066 | .19373 | .23392 | .91062 | 51.137 | .97393 | 66.712 | .47203 | .93488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **69.457** | **.45996** | **9.6496** | **.47946** | **10.846** | **.49008** | **1.8795** | **19.150** | **1.8611** |
| Stddev | .188 | .00104 | .0154 | .00058 | .000 | .00036 | .0010 | .038 | .0028 |
| %RSD | .27027 | .22561 | .16006 | .12047 | .00094 | .07379 | .05125 | .20070 | .15243 |
| #1 | 69.590 | .46069 | 9.6605 | .47987 | 10.846 | .49033 | 1.8802 | 19.123 | 1.8631 |
| #2 | 69.325 | .45923 | 9.6387 | .47905 | 10.846 | .48982 | 1.8788 | 19.178 | 1.8591 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1924** | **.97833** | **.96707** | **1.8959** | **1.9888** | **.47469** | **.52690** | **.46017** |
| Stddev | .0043 | .00324 | .00032 | .0015 | .0566 | .00077 | .00090 | .00080 |
| %RSD | .36081 | .33112 | .03322 | .08152 | 2.8483 | .16218 | .17084 | .17386 |
| #1 | 1.1955 | .97604 | .96684 | 1.8970 | 2.0289 | .47414 | .52754 | .45961 |
| #2 | 1.1894 | .98062 | .96729 | 1.8948 | 1.9487 | .47523 | .52627 | .46074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6077.0** | **81308.** | **5155.7** |
| Stddev | 9.1 | 104. | 17.2 |
| %RSD | .14964 | .12769 | .33450 |
| #1 | 6070.6 | 81381. | 5143.5 |
| #2 | 6083.4 | 81234. | 5167.8 |

Sample Name: 280-42364-H-2-E Acquired: 5/21/2013 19:08:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.00398** | **.00182** | **.03362** | **.15270** | **-.00003** | **-.00436** | **67.608** | **.00013** |
| Stddev | .00044 | .00013 | .00540 | .00027 | .00030 | .00015 | .00207 | .166 | .00005 |
| %RSD | 493.01 | 3.3700 | 296.36 | .79374 | .19933 | 429.96 | 47.376 | .24566 | 39.072 |
| #1 | .00022 | .00408 | .00564 | .03381 | .15249 | .00007 | -.00290 | 67.725 | .00017 |
| #2 | -.00040 | .00389 | -.00199 | .03343 | .15292 | -.00014 | -.00582 | 67.490 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.00693** | **.00164** | **.01323** | **2.5205** | **.00268** | **21.580** | **.00031** | **.00140** |
| Stddev | .00014 | .00005 | .00025 | .00518 | .0782 | .00167 | .000 | .00002 | .00008 |
| %RSD | 61.408 | .78748 | 15.075 | 39.120 | 3.1038 | 62.252 | .00075 | 5.4361 | 5.5230 |
| #1 | -.00012 | .00697 | .00147 | .00957 | 2.5758 | .00386 | 21.580 | .00030 | .00146 |
| #2 | -.00032 | .00689 | .00182 | .01689 | 2.4652 | .00150 | 21.580 | .00032 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.021** | **.00028** | **.21127** | **.00079** | **11.218** | **.00159** | **.00172** | **10.383** | **-.00105** |
| Stddev | .058 | .00004 | .00002 | .00045 | .018 | .00194 | .00408 | .012 | .00026 |
| %RSD | .27489 | 12.934 | .01154 | 57.007 | .16495 | 121.71 | 237.58 | .11320 | 24.731 |
| #1 | 21.062 | .00025 | .21125 | .00047 | 11.205 | .00296 | .00460 | 10.392 | -.00087 |
| #2 | 20.980 | .00031 | .21128 | .00110 | 11.231 | .00022 | -.00117 | 10.375 | -.00124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29994** | **-.00087** | **.00032** | **.00188** | **-.01485** | **.00375** | **.05441** | **-.00144** |
| Stddev | .00137 | .00009 | .00007 | .00030 | .00857 | .00020 | .00075 | .00046 |
| %RSD | .45779 | 10.315 | 21.526 | 16.002 | 57.705 | 5.3903 | 1.3777 | 32.176 |
| #1 | .30091 | -.00081 | .00037 | .00167 | -.00879 | .00389 | .05494 | -.00176 |
| #2 | .29897 | -.00093 | .00027 | .00210 | -.02091 | .00361 | .05388 | -.00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6198.2** | **83112.** | **5174.4** |
| Stddev | 3.4 | 70. | 1.8 |
| %RSD | .05524 | .08454 | .03568 |
| #1 | 6195.7 | 83161. | 5173.1 |
| #2 | 6200.6 | 83062. | 5175.7 |

Sample Name: 280-42371-D-2-A  Acquired: 5/21/2013 19:10:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.00170** | **.00622** | **.08710** | **.02691** | **-.00014** | **-.00649** | **474.88** | **.00029** |
| Stddev | .00047 | .00031 | .00523 | .00064 | .00019 | .00004 | .00203 | 1.80 | .00013 |
| %RSD | 334.95 | 18.298 | 84.142 | .73480 | .72228 | 29.817 | 31.243 | .37845 | 45.735 |
| #1 | .00019 | .00148 | .00252 | .08665 | .02677 | -.00017 | -.00792 | 473.61 | .00020 |
| #2 | -.00048 | .00192 | .00992 | .08756 | .02705 | -.00011 | -.00505 | 476.15 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00331** | **.00045** | **-.00012** | **2.5684** | **4.0009** | **.17191** | **69.256** | **.13549** | **.00024** |
| Stddev | .00005 | .00024 | .00015 | .0080 | .0603 | .00042 | .006 | .00013 | .00024 |
| %RSD | 1.4589 | 52.116 | 120.46 | .31120 | 1.5083 | .24261 | .00935 | .09678 | 102.14 |
| #1 | .00327 | .00062 | -.00002 | 2.5627 | 4.0436 | .17161 | 69.261 | .13559 | .00007 |
| #2 | .00334 | .00029 | -.00023 | 2.5740 | 3.9582 | .17220 | 69.251 | .13540 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **275.50** | **.00280** | **.27890** | **.00147** | **192.65** | **.00019** | **-.00104** | **17.030** | **-.00086** |
| Stddev | .45 | .00014 | .00100 | .00173 | .58 | .00158 | .00151 | .006 | .00026 |
| %RSD | .16444 | 4.8778 | .36026 | 117.24 | .30323 | 811.79 | 145.06 | .03748 | 30.622 |
| #1 | 275.17 | .00290 | .27962 | .00270 | 192.24 | -.00092 | .00003 | 17.034 | -.00067 |
| #2 | 275.82 | .00271 | .27819 | .00025 | 193.06 | .00131 | -.00211 | 17.025 | -.00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2761** | **.00098** | **.00235** | **.00176** | **-.01648** | **.00132** | **.00503** | **-.00308** |
| Stddev | .0027 | .00146 | .00064 | .00041 | .03246 | .00030 | .00010 | .00232 |
| %RSD | .21529 | 149.18 | 27.334 | 23.253 | 196.96 | 22.736 | 1.9827 | 75.344 |
| #1 | 1.2780 | -.00005 | .00190 | .00205 | -.03943 | .00153 | .00496 | -.00144 |
| #2 | 1.2741 | .00201 | .00281 | .00147 | .00647 | .00110 | .00510 | -.00471 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5751.3** | **78569.** | **5134.5** |
| Stddev | 10.7 | 499. | 33.2 |
| %RSD | .18647 | .63537 | .64633 |
| #1 | 5758.9 | 78922. | 5158.0 |
| #2 | 5743.7 | 78216. | 5111.0 |

Sample Name: 280-42371-D-3-A  Acquired: 5/21/2013 19:13:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 174890  6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00035** | **.00142** | **-.00404** | **.28561** | **.05447** | **-.00021** | **-.00167** | **426.91** | **.00029** |
| Stddev | .00066 | .00006 | .00053 | .00090 | .00003 | .00013 | .00174 | 8.48 | .00021 |
| %RSD | 186.89 | 4.0922 | 13.137 | .31495 | .06095 | 62.723 | 104.13 | 1.9866 | 71.059 |
| #1 | -.00082 | .00138 | -.00367 | .28498 | .05449 | -.00030 | -.00044 | 432.90 | .00015 |
| #2 | .00011 | .00146 | -.00442 | .28625 | .05445 | -.00012 | -.00290 | 420.91 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00362** | **.00055** | **.00021** | **.09158** | **3.2093** | **.11904** | **70.324** | **.61830** | **.00062** |
| Stddev | .00007 | .00004 | .00012 | .00102 | .0597 | .00087 | .052 | .00101 | .00009 |
| %RSD | 1.8773 | 6.8344 | 58.735 | 1.1135 | 1.8606 | .73314 | .07456 | .16293 | 14.847 |
| #1 | .00357 | .00053 | .00012 | .09086 | 3.1671 | .11842 | 70.287 | .61758 | .00069 |
| #2 | .00367 | .00058 | .00029 | .09230 | 3.2515 | .11966 | 70.361 | .61901 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **352.69** | **.02933** | **.61585** | **.00084** | **69.976** | **.00024** | **.00132** | **21.016** | **-.00095** |
| Stddev | .06 | .00020 | .01105 | .00271 | .188 | .00048 | .00490 | .059 | .00027 |
| %RSD | .01572 | .69064 | 1.7945 | 322.07 | .26816 | 200.52 | 371.90 | .28022 | 28.933 |
| #1 | 352.73 | .02947 | .60804 | .00276 | 69.843 | -.00010 | -.00215 | 20.974 | -.00075 |
| #2 | 352.65 | .02918 | .62366 | -.00107 | 70.108 | .00057 | .00478 | 21.058 | -.00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3972** | **-.00102** | **.00239** | **.00167** | **-.02200** | **.00030** | **.00459** | **-.00154** |
| Stddev | .0014 | .00171 | .00001 | .00016 | .02465 | .00027 | .00014 | .00023 |
| %RSD | .10011 | 168.31 | .41274 | 9.3499 | 112.03 | 88.183 | 3.1341 | 15.126 |
| #1 | 1.3982 | .00019 | .00240 | .00156 | -.03943 | .00049 | .00449 | -.00138 |
| #2 | 1.3962 | -.00223 | .00239 | .00178 | -.00457 | .00011 | .00470 | -.00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5738.8** | **77596.** | **4995.7** |
| Stddev | 11.6 | 91. | 32.0 |
| %RSD | .20185 | .11788 | .64030 |
| #1 | 5747.0 | 77532. | 4973.1 |
| #2 | 5730.6 | 77661. | 5018.3 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 19:15:52 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00147** | **50.255** | **.00150** | **.00460** | **.00077** | **-.00002** | **1.0057** | **.01360** | **-.00076** | **.00191** | **-.00021** | **.00062** | **49.700** |
| Stddev | .00068 | .217 | .00199 | .00012 | .00008 | .00006 | .0051 | .00207 | .00012 | .00014 | .00007 | .00026 | .045 |
| %RSD | 46.663 | .43192 | 132.10 | 2.5565 | 10.574 | 263.38 | .50881 | 15.260 | 15.421 | 7.2828 | 35.453 | 41.873 | .09071 |
| #1 | .00098 | 50.408 | .00010 | .00468 | .00071 | .00002 | 1.0021 | .01506 | -.00068 | .00201 | -.00016 | .00044 | 49.669 |
| #2 | .00195 | 50.101 | .00291 | .00452 | .00082 | -.00007 | 1.0093 | .01213 | -.00084 | .00181 | -.00026 | .00081 | 49.732 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23080** | **-.00122** | **-.00239** | **-.00065** | **-.00176** | **258.38** | **.00071** | **.02761** | **.00052** | **5.0628** | **-.00080** | **.00167** | **.01751** |
| Stddev | .04974 | .00356 | .00413 | .00002 | .00029 | 1.57 | .00000 | .00299 | .00036 | .0077 | .00083 | .00037 | .01336 |
| %RSD | 21.553 | 292.53 | 172.96 | 2.7186 | 16.441 | .60752 | .65166 | 10.846 | 68.268 | .15206 | 104.62 | 22.225 | 76.289 |
| #1 | .26598 | -.00374 | -.00530 | -.00063 | -.00155 | 259.49 | .00072 | .02973 | .00027 | 5.0574 | -.00021 | .00193 | .02695 |
| #2 | .19563 | .00130 | .00053 | -.00066 | -.00196 | 257.27 | .00071 | .02549 | .00077 | 5.0683 | -.00139 | .00141 | .00806 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00050** | **5.1968** | **.00310** | **-.00228** | **10.161** | **-.00047** | **.00333** | **-.03778** |
| Stddev | .00010 | .00012 | .0036 | .00018 | .00132 | .004 | .00025 | .00022 | .00239 |
| %RSD | 79.965 | 23.784 | .06898 | 5.8438 | 57.791 | .03616 | 54.446 | 6.4693 | 6.3188 |
| #1 | .00006 | .00042 | 5.1943 | .00323 | -.00321 | 10.164 | -.00029 | .00318 | -.03609 |
| #2 | .00020 | .00059 | 5.1993 | .00297 | -.00135 | 10.159 | -.00065 | .00348 | -.03947 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6036.6** | **80387.** | **4983.1** |
| Stddev | 7.4 | 255. | 13.2 |
| %RSD | .12338 | .31664 | .26574 |
| #1 | 6031.4 | 80207. | 4973.7 |
| #2 | 6041.9 | 80567. | 4992.4 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 19:18:15 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52684** | **.50859** | **1.0110** | **.49896** | **.51558** | **.47813** | **.00177** | **5.0339** | **.51941** | **.52650** | **.50808** | **.49923** | **2.4589** | **51.853** |
| Stddev | .00137 | .00102 | .0001 | .00126 | .00686 | .00508 | .00002 | .0283 | .00029 | .00062 | .00047 | .00200 | .0164 | .341 |
| %RSD | .25984 | .20074 | .00748 | .25263 | 1.3311 | 1.0622 | 1.3342 | .56189 | .05572 | .11694 | .09209 | .40079 | .66543 | .65793 |
| #1 | .52587 | .50787 | 1.0109 | .49807 | .51073 | .47454 | .00179 | 5.0139 | .51961 | .52606 | .50774 | .49782 | 2.4474 | 51.612 |
| #2 | .52781 | .50931 | 1.0110 | .49985 | .52044 | .48172 | .00175 | 5.0539 | .51920 | .52693 | .50841 | .50065 | 2.4705 | 52.095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0406** | **20.436** | **.51917** | **.50418** | **5.4154** | **.51654** | **.99521** | **1.0497** | **.04614** | **1.0280** | **.99255** | **4.9197** | **1.0194** | **.48961** |
| Stddev | .0061 | .027 | .00103 | .00025 | .0370 | .00331 | .00348 | .0027 | .00266 | .0005 | .00534 | .0079 | .0014 | .00376 |
| %RSD | .58517 | .13286 | .19869 | .05005 | .68313 | .64037 | .34953 | .26109 | 5.7602 | .04525 | .53804 | .16078 | .13839 | .76745 |
| #1 | 1.0363 | 20.417 | .51844 | .50400 | 5.3893 | .51887 | .99275 | 1.0478 | .04802 | 1.0283 | .98877 | 4.9141 | 1.0184 | .48695 |
| #2 | 1.0449 | 20.455 | .51990 | .50436 | 5.4416 | .51420 | .99767 | 1.0517 | .04426 | 1.0276 | .99632 | 4.9253 | 1.0204 | .49226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00160** | **.52210** | **1.0279** | **.00211** | **.50383** | **.52554** | **.50459** |
| Stddev | .00058 | .00223 | .0004 | .02262 | .00058 | .00069 | .00380 |
| %RSD | 36.076 | .42708 | .04281 | 1071.6 | .11534 | .13150 | .75251 |
| #1 | .00119 | .52053 | 1.0276 | .01811 | .50342 | .52505 | .50190 |
| #2 | .00201 | .52368 | 1.0282 | -.01389 | .50424 | .52602 | .50727 |
| Check ? | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6174.9** | **82483.** | **5069.6** |
| Stddev | 10.3 | 70. | 44.0 |
| %RSD | .16710 | .08532 | .86878 |
| #1 | 6182.2 | 82532. | 5100.8 |
| #2 | 6167.6 | 82433. | 5038.5 |

Sample Name: CCB Acquired: 5/21/2013 19:20:28 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00006** | **.00214** | F **.00347** | **.00047** | **-.00005** | **.00061** | **-.00014** | **.00013** | **.00003** | **.00009** |
| Stddev | .00041 | .00026 | .00105 | .00013 | .00015 | .00002 | .00061 | .00117 | .00011 | .00005 | .00007 |
| %RSD | 88.448 | 453.41 | 48.932 | 3.7279 | 31.352 | 35.774 | 100.51 | 862.70 | 82.603 | 181.70 | 77.062 |
| #1 | .00017 | -.00012 | .00140 | .00338 | .00036 | -.00006 | .00018 | .00069 | .00005 | .00007 | .00014 |
| #2 | .00075 | .00024 | .00288 | .00356 | .00057 | -.00004 | .00104 | -.00097 | .00020 | -.00001 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **.01420** | **.06926** | W **-.00263** | **.00327** | W **.00028** | **.00028** | F **.21481** | **-.00034** | **.00464** | **.00085** |
| Stddev | .00007 | .00361 | .03044 | .00111 | .00043 | .00010 | .00008 | .00979 | .00040 | .00081 | .00238 |
| %RSD | 18.885 | 25.445 | 43.956 | 42.200 | 13.016 | 34.848 | 27.284 | 4.5585 | 117.36 | 17.508 | 280.67 |
| #1 | -.00031 | .01675 | .09079 | -.00342 | .00357 | .00021 | .00033 | .20789 | -.00063 | .00522 | .00253 |
| #2 | -.00040 | .01164 | .04773 | -.00185 | .00297 | .00034 | .00023 | .22173 | -.00006 | .00407 | -.00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | .00025 | | .10000 | | | |
| Low Limit | | | | -.00261 | | -.00025 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04257** | **.00203** | **-.00201** | **.01024** | **.00033** | **-.00007** | **.00013** | **.00034** | **-.00047** | **.00672** | **.00039** |
| Stddev | .00029 | .00069 | .00021 | .01518 | .00073 | .00022 | .00036 | .00014 | .00073 | .01201 | .00012 |
| %RSD | .67364 | 34.021 | 10.505 | 148.29 | 224.65 | 316.25 | 278.02 | 40.717 | 157.19 | 178.69 | 31.897 |
| #1 | .04236 | .00154 | -.00186 | -.00050 | .00085 | -.00023 | .00039 | .00024 | -.00098 | -.00177 | .00048 |
| #2 | .04277 | .00252 | -.00216 | .02097 | -.00019 | .00009 | -.00013 | .00043 | .00005 | .01522 | .00030 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00293** | **.00028** |
| Stddev | .00029 | .00040 |
| %RSD | 9.7668 | 142.33 |
| #1 | .00313 | .00057 |
| #2 | .00273 | -.00000 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6161.9** | **82710.** | **5057.1** |
| Stddev | 16.8 | 10. | 2.3 |
| %RSD | .27268 | .01240 | .04492 |
| #1 | 6150.1 | 82703. | 5055.5 |
| #2 | 6173.8 | 82717. | 5058.7 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 19:22:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01106** | **.10627** | **.01621** | **.10188** | **.01117** | **.00094** | **.11121** | **.20619** | **.00560** | **.01126** | **.01037** |
| Stddev | .00041 | .00010 | .00111 | .00049 | .00075 | .00001 | .00148 | .00293 | .00015 | .00008 | .00011 |
| %RSD | 3.7273 | .09474 | 6.8446 | .47864 | 6.7461 | .94612 | 1.3317 | 1.4234 | 2.7287 | .72183 | 1.0898 |
| #1 | .01135 | .10620 | .01542 | .10223 | .01170 | .00095 | .11226 | .20411 | .00571 | .01121 | .01029 |
| #2 | .01077 | .10634 | .01699 | .10154 | .01063 | .00094 | .11016 | .20826 | .00549 | .01132 | .01045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01510** | **.10616** | **3.3101** | **.01084** | **.21663** | **.01104** | **.02070** | W **1.2879** | **.04265** | **2.9429** | **.00950** |
| Stddev | .00010 | .00117 | .0464 | .00005 | .00190 | .00017 | .00016 | .0156 | .00003 | .0031 | .00038 |
| %RSD | .65369 | 1.1050 | 1.4014 | .43828 | .87743 | 1.5661 | .75981 | 1.2077 | .08049 | .10536 | 4.0330 |
| #1 | .01503 | .10533 | 3.3429 | .01088 | .21797 | .01091 | .02059 | 1.2989 | .04268 | 2.9407 | .00977 |
| #2 | .01517 | .10699 | 3.2773 | .01081 | .21529 | .01116 | .02081 | 1.2769 | .04263 | 2.9451 | .00923 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04196** | **.01111** | **.01667** | **.49653** | **.10522** | **.01030** | **.01660** | **.01069** | **.01679** | **.06742** | **.00986** |
| Stddev | .00164 | .00165 | .00164 | .00402 | .00012 | .00002 | .00288 | .00041 | .00128 | .00191 | .00035 |
| %RSD | 3.9017 | 14.893 | 9.8654 | .81036 | .11846 | .19975 | 17.369 | 3.8490 | 7.6389 | 2.8362 | 3.5727 |
| #1 | .04312 | .01227 | .01783 | .49368 | .10531 | .01031 | .01456 | .01099 | .01769 | .06607 | .01011 |
| #2 | .04080 | .00994 | .01551 | .49937 | .10513 | .01028 | .01864 | .01040 | .01588 | .06877 | .00961 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02478** | **.01419** |
| Stddev | .00034 | .00197 |
| %RSD | 1.3557 | 13.873 |
| #1 | .02501 | .01279 |
| #2 | .02454 | .01558 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6210.1** | **83518.** | **5072.9** |
| Stddev | 1.2 | 511. | 50.3 |
| %RSD | .01977 | .61227 | .99131 |
| #1 | 6209.2 | 83156. | 5037.4 |
| #2 | 6211.0 | 83880. | 5108.5 |

Sample Name: 280-42368-L-1-B Acquired: 5/21/2013 19:25:20 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00442** | **.00576** | **2.5622** | **3.0937** | **-.00014** | **.00008** | **281.64** | **.00056** |
| Stddev | .00034 | .00035 | .00230 | .0026 | .0258 | .00006 | .00557 | 2.78 | .00007 |
| %RSD | 134.89 | 7.8242 | 39.896 | .10107 | .83412 | 41.544 | 6932.8 | .98602 | 12.679 |
| #1 | -.00001 | .00418 | .00738 | 2.5603 | 3.1119 | -.00010 | -.00385 | 283.61 | .00062 |
| #2 | -.00049 | .00467 | .00413 | 2.5640 | 3.0754 | -.00018 | .00402 | 279.68 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00237** | **.00088** | **-.00099** | **4.1939** | W **237.96** | **.07740** | W **1339.3** | **1.6127** | **.00730** |
| Stddev | .00018 | .00016 | .00007 | .0154 | .18 | .00108 | 10.4 | .0002 | .00016 |
| %RSD | 7.6381 | 18.182 | 7.2724 | .36644 | .07737 | 1.3897 | .77466 | .01198 | 2.1343 |
| #1 | .00224 | .00076 | -.00093 | 4.2048 | 237.83 | .07816 | 1331.9 | 1.6128 | .00741 |
| #2 | .00249 | .00099 | -.00104 | 4.1831 | 238.09 | .07664 | 1346.6 | 1.6125 | .00719 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | 500.00 | | |
| Low Limit | | | | | -.50000 | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9214.0** | **.00435** | **1.0762** | **.00087** | **2.1274** | **.00177** | **.00434** | **7.7526** | **-.00168** |
| Stddev | 78.7 | .00022 | .0041 | .00172 | .0419 | .00180 | .00018 | .0182 | .00070 |
| %RSD | .85455 | 5.1057 | .37734 | 198.48 | 1.9705 | 101.28 | 4.1046 | .23446 | 41.843 |
| #1 | 9269.6 | .00451 | 1.0733 | .00208 | 2.1571 | .00304 | .00422 | 7.7654 | -.00218 |
| #2 | 9158.3 | .00420 | 1.0791 | -.00035 | 2.0978 | .00050 | .00447 | 7.7397 | -.00119 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **20.494** | **.00058** | **-.00860** | **-.00005** | **.00206** | **.00281** | **.00590** | **.00261** |
| Stddev | .184 | .00084 | .00015 | .00133 | .00203 | .00111 | .00053 | .00078 |
| %RSD | .89543 | 145.88 | 1.7075 | 2498.3 | 98.688 | 39.725 | 8.9574 | 29.976 |
| #1 | 20.624 | -.00002 | -.00849 | .00089 | .00062 | .00202 | .00553 | .00206 |
| #2 | 20.364 | .00117 | -.00870 | -.00099 | .00350 | .00359 | .00628 | .00316 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 20.000 | | | | | | | |
| Low Limit | -.02000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4792.5** | **64839.** | **4646.9** |
| Stddev | 5.3 | 394. | 81.8 |
| %RSD | .11055 | .60776 | 1.7614 |
| #1 | 4788.7 | 64560. | 4589.0 |
| #2 | 4796.2 | 65117. | 4704.8 |

Sample Name: 280-42368-L-2-B Acquired: 5/21/2013 19:28:36 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00372** | **.00313** | **2.5879** | **3.0012** | **-.00016** | **.00219** | **272.85** | **.00049** |
| Stddev | .00043 | .00005 | .00073 | .0192 | .0555 | .00000 | .00041 | 5.57 | .00014 |
| %RSD | 249.39 | 1.3883 | 23.416 | .74045 | 1.8497 | 1.0929 | 18.923 | 2.0431 | 29.328 |
| #1 | -.00013 | .00369 | .00261 | 2.6015 | 2.9620 | -.00016 | .00190 | 268.91 | .00059 |
| #2 | .00048 | .00376 | .00364 | 2.5744 | 3.0405 | -.00017 | .00248 | 276.79 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00218** | **.00059** | **-.00147** | **2.7698** | W **235.51** | **.00106** | W **1306.9** | **1.5826** | **.00724** |
| Stddev | .00012 | .00013 | .00001 | .0489 | 6.61 | .00029 | 4.7 | .0056 | .00032 |
| %RSD | 5.6195 | 21.503 | .84649 | 1.7660 | 2.8081 | 27.621 | .35734 | .35280 | 4.4520 |
| #1 | .00226 | .00068 | -.00147 | 2.7352 | 230.83 | .00085 | 1310.3 | 1.5787 | .00747 |
| #2 | .00209 | .00050 | -.00146 | 2.8044 | 240.18 | .00127 | 1303.6 | 1.5866 | .00701 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | 500.00 | | |
| Low Limit | | | | | -.50000 | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8991.4** | **.00338** | **.96709** | **.00134** | **1.8874** | **.00286** | **-.00332** | **7.4558** | **-.00031** |
| Stddev | 133.3 | .00061 | .00185 | .00063 | .0374 | .00123 | .00032 | .1675 | .00034 |
| %RSD | 1.4822 | 17.936 | .19159 | 47.235 | 1.9801 | 42.876 | 9.4852 | 2.2471 | 107.17 |
| #1 | 8897.2 | .00381 | .96578 | .00089 | 1.9138 | .00373 | -.00310 | 7.3374 | -.00055 |
| #2 | 9085.6 | .00295 | .96840 | .00179 | 1.8609 | .00199 | -.00354 | 7.5743 | -.00008 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **20.124** | **.00098** | **-.00832** | **.00022** | **.00991** | **.00201** | **.00446** | **.00126** |
| Stddev | .479 | .00105 | .00012 | .00068 | .03361 | .00092 | .00020 | .00103 |
| %RSD | 2.3814 | 106.91 | 1.4652 | 311.41 | 339.20 | 45.574 | 4.4155 | 81.494 |
| #1 | 19.785 | .00024 | -.00841 | -.00026 | -.01386 | .00136 | .00460 | .00053 |
| #2 | 20.463 | .00172 | -.00824 | .00070 | .03368 | .00266 | .00432 | .00198 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 20.000 | | | | | | | |
| Low Limit | -.02000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4909.0** | **67019.** | **5005.2** |
| Stddev | 16.9 | 4. | 24.9 |
| %RSD | .34398 | .00638 | .49711 |
| #1 | 4897.0 | 67022. | 5022.8 |
| #2 | 4920.9 | 67016. | 4987.6 |

Sample Name: 280-42368-L-3-B Acquired: 5/21/2013 19:31:58 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00165** | **.00088** | **-.00236** | **.80182** | **.39661** | **-.00038** | **-.00340** | W **653.43** | **.00393** |
| Stddev | .00094 | .00029 | .00155 | .00176 | .00153 | .00003 | .00226 | .12 | .00004 |
| %RSD | 56.850 | 33.239 | 65.676 | .21958 | .38528 | 8.4177 | 66.368 | .01878 | 1.0057 |
| #1 | .00099 | .00067 | -.00126 | .80306 | .39553 | -.00036 | -.00181 | 653.34 | .00391 |
| #2 | .00232 | .00108 | -.00345 | .80057 | .39769 | -.00041 | -.00500 | 653.51 | .00396 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01597** | **.00072** | **-.00070** | **.02795** | **52.267** | **.14608** | W **1273.1** | **8.3539** | **.00140** |
| Stddev | .00010 | .00024 | .00053 | .00087 | 1.541 | .00123 | 6.0 | .0434 | .00002 |
| %RSD | .62287 | 33.680 | 76.123 | 3.1113 | 2.9478 | .84505 | .47233 | .51995 | 1.4025 |
| #1 | .01604 | .00055 | -.00108 | .02734 | 51.178 | .14520 | 1277.4 | 8.3846 | .00138 |
| #2 | .01590 | .00089 | -.00032 | .02857 | 53.356 | .14695 | 1268.9 | 8.3232 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 500.00 | | |
| Low Limit | | | | | | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8161.8** | **.07119** | **.71602** | **.00110** | **62.269** | **.00143** | **-.00292** | **13.918** | **-.00211** |
| Stddev | 27.6 | .00047 | .00729 | .00002 | .158 | .00134 | .00395 | .013 | .00102 |
| %RSD | .33785 | .65608 | 1.0177 | 2.0178 | .25320 | 93.577 | 135.24 | .09522 | 48.441 |
| #1 | 8142.3 | .07152 | .71087 | .00112 | 62.381 | .00237 | -.00013 | 13.927 | -.00283 |
| #2 | 8181.3 | .07086 | .72117 | .00109 | 62.158 | .00048 | -.00571 | 13.908 | -.00138 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.2815** | **.00426** | **-.00594** | **-.00518** | **-.02030** | **.00381** | **.00483** | **.00036** |
| Stddev | .0445 | .00329 | .00030 | .00006 | .05846 | .00053 | .00050 | .00068 |
| %RSD | .47947 | 77.278 | 4.9931 | 1.2462 | 288.03 | 13.817 | 10.252 | 189.53 |
| #1 | 9.2500 | .00193 | -.00615 | -.00514 | .02104 | .00418 | .00518 | .00084 |
| #2 | 9.3129 | .00658 | -.00573 | -.00523 | -.06163 | .00343 | .00448 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4975.3** | **67731.** | **4863.2** |
| Stddev | .4 | 464. | 33.5 |
| %RSD | .00822 | .68548 | .68867 |
| #1 | 4975.1 | 67403. | 4886.9 |
| #2 | 4975.6 | 68059. | 4839.5 |

Sample Name: 280-42368-L-4-B Acquired: 5/21/2013 19:35:26 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **.00142** | **-.00039** | **.50618** | **.57653** | **-.00044** | **-.00429** | W **965.09** | **-.00012** |
| Stddev | .00000 | .00086 | .00523 | .00514 | .01311 | .00006 | .00255 | 47.64 | .00019 |
| %RSD | .15915 | 60.262 | 1342.3 | 1.0158 | 2.2734 | 13.843 | 59.478 | 4.9359 | 156.54 |
| #1 | -.00036 | .00203 | .00331 | .50254 | .58580 | -.00040 | -.00248 | 998.78 | -.00026 |
| #2 | -.00036 | .00082 | -.00409 | .50981 | .56727 | -.00048 | -.00609 | 931.41 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00108** | **.00116** | **.00025** | **.10916** | W **183.58** | **.03244** | **35.068** | **.02958** | **.00095** |
| Stddev | .00004 | .00022 | .00045 | .00299 | 3.07 | .00064 | .151 | .00012 | .00016 |
| %RSD | 3.6599 | 19.132 | 180.17 | 2.7347 | 1.6704 | 1.9655 | .43197 | .39638 | 16.782 |
| #1 | .00105 | .00100 | .00057 | .11127 | 185.75 | .03199 | 34.961 | .02950 | .00106 |
| #2 | .00111 | .00131 | -.00007 | .10705 | 181.41 | .03289 | 35.175 | .02967 | .00084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5350.3** | **.00314** | **.92520** | **.00057** | **9.4788** | **.00242** | **-.00064** | **5.4644** | **-.00018** |
| Stddev | 108.6 | .00026 | .01393 | .00011 | .1363 | .00090 | .00078 | .1356 | .00036 |
| %RSD | 2.0303 | 8.2876 | 1.5053 | 18.476 | 1.4374 | 37.063 | 122.57 | 2.4811 | 206.30 |
| #1 | 5427.1 | .00295 | .91535 | .00065 | 9.3825 | .00179 | -.00120 | 5.5603 | -.00043 |
| #2 | 5273.5 | .00332 | .93505 | .00050 | 9.5752 | .00306 | -.00009 | 5.3685 | .00008 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **20.853** | **.00125** | **.00589** | **.00084** | **-.03970** | **.00097** | **.00367** | **.00004** |
| Stddev | .379 | .00344 | .00033 | .00135 | .01936 | .00018 | .00039 | .00092 |
| %RSD | 1.8194 | 275.05 | 5.6274 | 161.08 | 48.762 | 18.865 | 10.688 | 2091.4 |
| #1 | 21.121 | .00368 | .00565 | .00180 | -.05339 | .00084 | .00340 | -.00061 |
| #2 | 20.585 | -.00118 | .00612 | -.00012 | -.02601 | .00110 | .00395 | .00069 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 20.000 | | | | | | | |
| Low Limit | -.02000 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5234.1** | **74461.** | **5098.3** |
| Stddev | 73.0 | 66. | 159.3 |
| %RSD | 1.3955 | .08850 | 3.1236 |
| #1 | 5285.8 | 74415. | 4985.7 |
| #2 | 5182.5 | 74508. | 5210.9 |

Sample Name: 280-42368-L-1-B@10 Acquired: 5/21/2013 19:39:31 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00025** | **.00270** | **-.00039** | **.31149** | **.36316** | **-.00001** | **.00190** | **35.016** | **.00035** |
| Stddev | .00068 | .00020 | .00010 | .00016 | .00058 | .00007 | .00078 | .107 | .00003 |
| %RSD | 270.81 | 7.3379 | 26.211 | .05117 | .15866 | 779.97 | 41.090 | .30558 | 9.7027 |
| #1 | -.00073 | .00256 | -.00046 | .31160 | .36357 | -.00006 | .00246 | 34.941 | .00033 |
| #2 | .00023 | .00283 | -.00032 | .31137 | .36276 | .00004 | .00135 | 35.092 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00039** | **-.00040** | **.51763** | **26.779** | **-.00081** | **164.34** | **.19275** | **.00080** |
| Stddev | .00024 | .00003 | .00043 | .00097 | .202 | .00039 | 1.02 | .00065 | .00014 |
| %RSD | 37.964 | 8.1746 | 108.44 | .18725 | .75561 | 47.790 | .62162 | .33921 | 17.136 |
| #1 | .00079 | .00042 | -.00070 | .51832 | 26.636 | -.00108 | 163.62 | .19321 | .00071 |
| #2 | .00045 | .00037 | -.00009 | .51695 | 26.922 | -.00053 | 165.06 | .19229 | .00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1069.0** | **.00026** | **.13984** | **.00083** | **.18407** | **.00023** | **-.00361** | **.87475** | **-.00019** |
| Stddev | .8 | .00006 | .00264 | .00086 | .00118 | .00043 | .00012 | .00577 | .00029 |
| %RSD | .07489 | 22.484 | 1.8908 | 102.84 | .63875 | 187.36 | 3.3244 | .65910 | 154.25 |
| #1 | 1068.5 | .00022 | .14171 | .00023 | .18324 | -.00007 | -.00369 | .87883 | -.00040 |
| #2 | 1069.6 | .00030 | .13797 | .00144 | .18490 | .00054 | -.00352 | .87068 | .00002 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4825** | **-.00184** | **-.00070** | **.00219** | **.03885** | **.00106** | **.00452** | **-.00119** |
| Stddev | .0011 | .00168 | .00004 | .00017 | .01323 | .00034 | .00032 | .00305 |
| %RSD | .04317 | 91.059 | 6.1448 | 7.7214 | 34.057 | 32.022 | 6.9893 | 255.39 |
| #1 | 2.4817 | -.00303 | -.00067 | .00231 | .02949 | .00082 | .00474 | -.00335 |
| #2 | 2.4833 | -.00066 | -.00073 | .00207 | .04820 | .00130 | .00429 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6009.1** | **80061.** | **5163.3** |
| Stddev | .2 | 192. | 3.7 |
| %RSD | .00275 | .24023 | .07256 |
| #1 | 6009.2 | 79925. | 5160.6 |
| #2 | 6009.0 | 80197. | 5165.9 |

Sample Name: 280-42368-L-2-B@10 Acquired: 5/21/2013 19:42:42 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00193** | **.00240** | **.30512** | **.35470** | **-.00007** | **.00137** | **34.561** | **.00043** |
| Stddev | .00010 | .00032 | .00242 | .00184 | .00152 | .00002 | .00169 | .347 | .00004 |
| %RSD | 72.153 | 16.666 | 100.93 | .60289 | .42853 | 24.897 | 123.36 | 1.0041 | 9.9691 |
| #1 | .00021 | .00171 | .00411 | .30642 | .35363 | -.00006 | .00257 | 34.316 | .00046 |
| #2 | .00007 | .00216 | .00069 | .30382 | .35578 | -.00009 | .00018 | 34.807 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00012** | **-.00012** | **.34606** | **26.186** | **-.00122** | **164.20** | **.19178** | **.00097** |
| Stddev | .00007 | .00009 | .00010 | .00747 | .379 | .00062 | .09 | .00020 | .00004 |
| %RSD | 18.793 | 74.041 | 84.511 | 2.1594 | 1.4490 | 51.062 | .05406 | .10664 | 3.6517 |
| #1 | .00044 | .00019 | -.00005 | .34077 | 25.918 | -.00078 | 164.26 | .19163 | .00099 |
| #2 | .00033 | .00006 | -.00019 | .35134 | 26.454 | -.00166 | 164.14 | .19192 | .00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1058.8** | **.00041** | **.11565** | **.00114** | **.17867** | **-.00023** | **-.00337** | **.85262** | **.00023** |
| Stddev | 6.6 | .00027 | .00101 | .00004 | .00024 | .00066 | .00521 | .01435 | .00022 |
| %RSD | .62529 | 64.008 | .87217 | 3.4803 | .13355 | 285.75 | 154.47 | 1.6826 | 97.037 |
| #1 | 1054.1 | .00023 | .11494 | .00117 | .17850 | -.00070 | .00031 | .84248 | .00007 |
| #2 | 1063.5 | .00060 | .11637 | .00111 | .17884 | .00024 | -.00705 | .86276 | .00039 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4494** | **-.00125** | **-.00025** | **.00145** | **.01114** | **.00090** | **.00713** | **.00079** |
| Stddev | .0198 | .00171 | .00022 | .00044 | .02135 | .00012 | .00043 | .00114 |
| %RSD | .80648 | 136.76 | 86.335 | 29.948 | 191.62 | 12.911 | 6.0136 | 143.67 |
| #1 | 2.4355 | -.00004 | -.00041 | .00115 | -.00396 | .00082 | .00683 | -.00001 |
| #2 | 2.4634 | -.00246 | -.00010 | .00176 | .02624 | .00098 | .00743 | .00160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5882.1** | **77669.** | **4986.5** |
| Stddev | 93.5 | 297. | 88.8 |
| %RSD | 1.5890 | .38180 | 1.7800 |
| #1 | 5816.0 | 77460. | 5049.2 |
| #2 | 5948.2 | 77879. | 4923.7 |

Sample Name: 280-42368-L-3-B@10 Acquired: 5/21/2013 19:45:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00434** | **-.00132** | **.09482** | **.04378** | **-.00009** | **.00179** | **75.721** | **.00068** |
| Stddev | .00026 | .00040 | .00010 | .00050 | .00041 | .00005 | .00287 | .964 | .00000 |
| %RSD | 254.04 | 9.0992 | 7.5418 | .52804 | .92843 | 53.917 | 160.43 | 1.2733 | .19495 |
| #1 | -.00008 | .00406 | -.00139 | .09446 | .04349 | -.00006 | .00382 | 75.039 | .00068 |
| #2 | .00029 | .00462 | -.00125 | .09517 | .04407 | -.00013 | -.00024 | 76.402 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00203** | **.00022** | **-.00055** | **.01491** | **4.2044** | **.01211** | **151.25** | **.96662** | **.00019** |
| Stddev | .00009 | .00007 | .00010 | .00261 | .0627 | .00212 | .73 | .00413 | .00027 |
| %RSD | 4.4366 | 32.014 | 19.005 | 17.496 | 1.4908 | 17.512 | .48462 | .42758 | 138.52 |
| #1 | .00197 | .00027 | -.00048 | .01675 | 4.1601 | .01361 | 150.73 | .96370 | .00000 |
| #2 | .00210 | .00017 | -.00062 | .01306 | 4.2487 | .01061 | 151.77 | .96954 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **870.70** | **.00932** | **.08527** | **.00064** | **6.4487** | **.00144** | **-.00271** | **1.4785** | **-.00045** |
| Stddev | 10.66 | .00022 | .00022 | .00010 | .0334 | .00157 | .00043 | .0177 | .00022 |
| %RSD | 1.2242 | 2.3983 | .25812 | 15.397 | .51814 | 109.37 | 15.912 | 1.1942 | 49.965 |
| #1 | 863.16 | .00916 | .08542 | .00057 | 6.4250 | .00255 | -.00240 | 1.4909 | -.00029 |
| #2 | 878.24 | .00948 | .08511 | .00071 | 6.4723 | .00033 | -.00301 | 1.4660 | -.00060 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0142** | **-.00110** | **-.00045** | **.00038** | **-.03221** | **.00096** | **.00440** | **-.00001** |
| Stddev | .0120 | .00123 | .00052 | .00087 | .02707 | .00007 | .00053 | .00298 |
| %RSD | 1.1867 | 112.21 | 114.89 | 231.76 | 84.062 | 6.8679 | 12.068 | 32177. |
| #1 | 1.0057 | -.00197 | -.00082 | -.00024 | -.05135 | .00091 | .00402 | .00210 |
| #2 | 1.0227 | -.00023 | -.00008 | .00099 | -.01306 | .00100 | .00477 | -.00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5876.8** | **82177.** | **5150.8** |
| Stddev | 38.6 | 614. | 50.6 |
| %RSD | .65653 | .74718 | .98294 |
| #1 | 5904.1 | 82611. | 5186.6 |
| #2 | 5849.6 | 81743. | 5115.0 |

Sample Name: 280-42368-L-4-B@10 Acquired: 5/21/2013 19:48:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **.00174** | **.00208** | **.05842** | **.06446** | **-.00004** | **.00013** | **115.83** | **.00015** |
| Stddev | .00039 | .00119 | .00100 | .00027 | .00006 | .00007 | .00007 | 1.16 | .00007 |
| %RSD | 220.81 | 68.268 | 47.870 | .45856 | .09866 | 161.11 | 54.712 | .99893 | 46.184 |
| #1 | -.00045 | .00090 | .00138 | .05823 | .06442 | -.00009 | .00018 | 115.01 | .00020 |
| #2 | .00010 | .00258 | .00279 | .05861 | .06451 | .00001 | .00008 | 116.65 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00038** | **-.00063** | **.03067** | **19.272** | **.00141** | **4.3792** | **.00372** | **.00011** |
| Stddev | .00015 | .00012 | .00017 | .00098 | .218 | .00012 | .0256 | .00004 | .00012 |
| %RSD | 149.39 | 31.568 | 26.220 | 3.1811 | 1.1306 | 8.7266 | .58456 | 1.0953 | 115.65 |
| #1 | .00021 | .00046 | -.00051 | .03136 | 19.118 | .00150 | 4.3973 | .00369 | .00019 |
| #2 | -.00001 | .00029 | -.00075 | .02998 | 19.426 | .00133 | 4.3611 | .00375 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **584.58** | **.00017** | **.10401** | **-.00053** | **.91897** | **-.00079** | **-.00147** | **.57440** | **.00012** |
| Stddev | 2.62 | .00020 | .00125 | .00063 | .01045 | .00110 | .00393 | .01761 | .00017 |
| %RSD | .44811 | 117.01 | 1.2044 | 120.10 | 1.1371 | 138.58 | 267.96 | 3.0661 | 141.05 |
| #1 | 582.73 | .00003 | .10312 | -.00098 | .91158 | -.00002 | .00131 | .58685 | .00024 |
| #2 | 586.43 | .00031 | .10490 | -.00008 | .92636 | -.00157 | -.00425 | .56194 | .00000 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4085** | **.00126** | **.00086** | **.00234** | **-.00628** | **.00029** | **.00451** | **.00137** |
| Stddev | .0185 | .00033 | .00041 | .00083 | .00814 | .00026 | .00035 | .00057 |
| %RSD | .76980 | 26.271 | 47.579 | 35.318 | 129.60 | 86.768 | 7.7505 | 41.122 |
| #1 | 2.3954 | .00102 | .00057 | .00176 | -.01203 | .00011 | .00426 | .00097 |
| #2 | 2.4216 | .00149 | .00115 | .00293 | -.00052 | .00047 | .00475 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6078.7** | **82032.** | **5183.2** |
| Stddev | 25.5 | 364. | 52.6 |
| %RSD | .41890 | .44423 | 1.0141 |
| #1 | 6096.7 | 81774. | 5220.3 |
| #2 | 6060.7 | 82290. | 5146.0 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 19:52:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00184** | **51.206** | **-.00112** | **.00412** | **.00117** | **-.00005** | **1.0138** | **.00534** | **-.00074** | **.00196** | **-.00027** | **.00049** | **49.929** |
| Stddev | .00032 | .186 | .00385 | .00106 | .00007 | .00010 | .0070 | .00075 | .00003 | .00012 | .00022 | .00023 | .304 |
| %RSD | 17.431 | .36226 | 342.10 | 25.724 | 5.7107 | 210.30 | .68661 | 14.007 | 4.3624 | 6.1298 | 82.912 | 47.288 | .60836 |
| #1 | .00161 | 51.074 | .00160 | .00487 | .00122 | -.00012 | 1.0187 | .00587 | -.00076 | .00204 | -.00043 | .00066 | 49.714 |
| #2 | .00207 | 51.337 | -.00384 | .00337 | .00113 | .00002 | 1.0089 | .00481 | -.00071 | .00187 | -.00011 | .00033 | 50.144 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39807** | **-.00264** | **-.00408** | **-.00063** | **-.00181** | **273.97** | **.00088** | **.01334** | **.00130** | **5.0475** | **.00064** | **-.00074** | **.00147** |
| Stddev | .06799 | .00056 | .00165 | .00003 | .00027 | 1.20 | .00058 | .00112 | .00077 | .0196 | .00001 | .00113 | .01308 |
| %RSD | 17.079 | 21.027 | 40.386 | 4.6053 | 14.960 | .43804 | 66.283 | 8.4051 | 59.317 | .38759 | 1.3083 | 153.65 | 892.70 |
| #1 | .44615 | -.00303 | -.00291 | -.00065 | -.00162 | 273.12 | .00047 | .01413 | .00075 | 5.0614 | .00064 | -.00154 | .01072 |
| #2 | .35000 | -.00225 | -.00525 | -.00061 | -.00200 | 274.82 | .00129 | .01255 | .00184 | 5.0337 | .00063 | .00006 | -.00779 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00035** | **5.3002** | **.00287** | **-.00088** | **10.358** | **-.00060** | **.00378** | **-.04127** |
| Stddev | .00007 | .00014 | .0100 | .00066 | .00007 | .043 | .00022 | .00020 | .00055 |
| %RSD | 31.534 | 38.668 | .18885 | 22.966 | 7.4569 | .41248 | 36.073 | 5.3434 | 1.3271 |
| #1 | .00017 | .00026 | 5.3073 | .00241 | -.00084 | 10.388 | -.00075 | .00392 | -.04166 |
| #2 | .00026 | .00045 | 5.2932 | .00334 | -.00093 | 10.328 | -.00044 | .00363 | -.04088 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6245.0** | **82355.** | **4939.0** |
| Stddev | 48.8 | 295. | 9.4 |
| %RSD | .78158 | .35801 | .18948 |
| #1 | 6210.5 | 82147. | 4945.6 |
| #2 | 6279.5 | 82564. | 4932.4 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 19:54:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51550** | **.50151** | **.99520** | **.49237** | **.51023** | **.46203** | **.00180** | **4.8516** | **.51328** | **.51890** | **.50036** | **.48962** |
| Stddev | .00101 | .00353 | .00773 | .00362 | .00329 | .00303 | .00050 | .0417 | .00405 | .00445 | .00379 | .00018 |
| %RSD | .19565 | .70439 | .77673 | .73539 | .64415 | .65611 | 27.851 | .86020 | .78896 | .85676 | .75769 | .03774 |
| #1 | .51479 | .49901 | .98973 | .48981 | .50790 | .45989 | .00216 | 4.8221 | .51042 | .51576 | .49768 | .48949 |
| #2 | .51621 | .50400 | 1.0007 | .49493 | .51255 | .46418 | .00145 | 4.8811 | .51614 | .52205 | .50304 | .48975 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3134** | **52.134** | **1.0441** | **19.871** | **.50548** | **.49763** | F **6.1776** | **.51155** | **.97997** | **1.0341** | **.01913** | **1.0175** |
| Stddev | .0199 | .262 | .0054 | .029 | .00072 | .00144 | .0042 | .00280 | .00471 | .0037 | .00205 | .0048 |
| %RSD | .86108 | .50223 | .51727 | .14354 | .14275 | .28949 | .06849 | .54730 | .48103 | .35918 | 10.692 | .47580 |
| #1 | 2.2993 | 51.949 | 1.0403 | 19.851 | .50497 | .49661 | 6.1746 | .50957 | .97664 | 1.0315 | .01769 | 1.0141 |
| #2 | 2.3275 | 52.319 | 1.0479 | 19.891 | .50599 | .49865 | 6.1806 | .51353 | .98330 | 1.0367 | .02058 | 1.0209 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97337** | **4.6859** | **1.0030** | **.48134** | **.00027** | **.50881** | **1.0201** | **-.00573** | **.49048** | **.50586** | **.49080** |
| Stddev | .00169 | .0363 | .0015 | .00247 | .00016 | .00072 | .0027 | .00365 | .00148 | .00148 | .00625 |
| %RSD | .17349 | .77414 | .14556 | .51263 | 58.407 | .14057 | .26000 | 63.616 | .30224 | .29185 | 1.2736 |
| #1 | .97218 | 4.6603 | 1.0020 | .47960 | .00016 | .50831 | 1.0182 | -.00831 | .49153 | .50690 | .48638 |
| #2 | .97456 | 4.7116 | 1.0041 | .48309 | .00038 | .50932 | 1.0220 | -.00315 | .48944 | .50481 | .49522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6311.8** | **85709.** | **5133.0** |
| Stddev | 33.5 | 23. | 21.1 |
| %RSD | .53017 | .02681 | .41203 |
| #1 | 6335.5 | 85726. | 5147.9 |
| #2 | 6288.1 | 85693. | 5118.0 |

Sample Name: CCB Acquired: 5/21/2013 19:56:38 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.00364** | **.00284** | F **.00339** | W **.00058** | **.00001** | **.00278** | **.00210** | **.00000** | **.00021** | W **.00068** |
| Stddev | .00011 | .00009 | .00207 | .00022 | .00033 | .00011 | .00103 | .00012 | .00000 | .00002 | .00002 |
| %RSD | 43.975 | 2.5421 | 72.961 | 6.5752 | 56.425 | 1119.7 | 36.998 | 5.9270 | 15.538 | 9.9490 | 2.2093 |
| #1 | -.00017 | .00358 | .00431 | .00354 | .00081 | .00009 | .00350 | .00201 | .00000 | .00019 | .00069 |
| #2 | -.00032 | .00371 | .00138 | .00323 | .00035 | -.00007 | .00205 | .00219 | .00000 | .00022 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | .00312 | .00058 | | | | | | .00066 |
| Low Limit | | | | -.00312 | -.00058 | | | | | | -.00066 |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | F **1.7029** | **.23139** | **.00069** | **.00236** | F **.01174** | **.00031** | F **1.0566** | **.00017** | **.00945** | **.00007** |
| Stddev | .00025 | .0115 | .00877 | .00211 | .00029 | .00004 | .00011 | .0237 | .00002 | .00111 | .00179 |
| %RSD | 330.83 | .67275 | 3.7905 | 305.04 | 12.185 | .30419 | 34.516 | 2.2424 | 14.135 | 11.747 | 2516.8 |
| #1 | .00010 | 1.6948 | .23759 | -.00080 | .00257 | .01177 | .00038 | 1.0733 | .00019 | .00867 | -.00119 |
| #2 | -.00026 | 1.7110 | .22519 | .00218 | .00216 | .01172 | .00023 | 1.0398 | .00015 | .01024 | .00133 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .04400 | | | | .00051 | | .10000 | | | |
| Low Limit | | -.04400 | | | | -.00051 | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02100** | W **.00336** | **.00001** | **.01895** | **-.00002** | **.00016** | **.00119** | **.00013** | **.00090** | **-.00249** | **-.00005** |
| Stddev | .00218 | .00057 | .00023 | .00985 | .00054 | .00006 | .00272 | .00033 | .00075 | .01314 | .00069 |
| %RSD | 10.389 | 17.034 | 3604.2 | 51.993 | 2388.9 | 37.872 | 229.52 | 259.75 | 83.001 | 528.19 | 1528.7 |
| #1 | .01946 | .00377 | .00017 | .01198 | -.00040 | .00012 | .00311 | -.00011 | .00037 | -.01178 | -.00054 |
| #2 | .02254 | .00296 | -.00015 | .02591 | .00036 | .00020 | -.00074 | .00036 | .00143 | .00681 | .00045 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.03841** | **-.00204** |
| Stddev | .00019 | .00224 |
| %RSD | .50032 | 109.97 |
| #1 | .03855 | -.00362 |
| #2 | .03828 | -.00045 |
| Check ? | Chk Fail | Chk Pass |
| High Limit | .00906 | |
| Low Limit | -.00906 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6375.0** | **85374.** | **5004.8** |
| Stddev | 21.5 | 830. | 6.7 |
| %RSD | .33790 | .97164 | .13316 |
| #1 | 6359.8 | 84787. | 5000.0 |
| #2 | 6390.3 | 85960. | 5009.5 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 19:59:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01038** | **.10239** | **.01697** | **.09694** | **.01088** | W **.00077** | **.10660** | **.20218** | **.00517** | **.01090** | **.00993** |
| Stddev | .00029 | .00018 | .00124 | .00049 | .00043 | .00003 | .00042 | .00156 | .00008 | .00020 | .00025 |
| %RSD | 2.7774 | .17827 | 7.3183 | .50921 | 3.9129 | 3.6075 | .39415 | .77252 | 1.5001 | 1.8447 | 2.5057 |
| #1 | .01059 | .10226 | .01785 | .09729 | .01118 | .00075 | .10689 | .20108 | .00523 | .01076 | .00976 |
| #2 | .01018 | .10252 | .01609 | .09659 | .01058 | .00079 | .10630 | .20329 | .00512 | .01105 | .01011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .00100 | | | | | |
| Range | | | | | | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01446** | **.09564** | **3.4367** | **.01069** | **.20701** | **.01054** | **.02002** | F **2.0127** | **.04106** | **2.8165** | **.00947** |
| Stddev | .00006 | .00019 | .0114 | .00152 | .00033 | .00005 | .00033 | .0070 | .00027 | .0019 | .00003 |
| %RSD | .43512 | .19477 | .33246 | 14.188 | .16179 | .44771 | 1.6645 | .35017 | .65866 | .06737 | .31602 |
| #1 | .01451 | .09550 | 3.4286 | .00962 | .20724 | .01058 | .01979 | 2.0177 | .04125 | 2.8178 | .00949 |
| #2 | .01442 | .09577 | 3.4447 | .01177 | .20677 | .01051 | .02026 | 2.0077 | .04087 | 2.8152 | .00945 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01918** | W **.01231** | **.01572** | **.47742** | **.10005** | **.00990** | **.01542** | **.01023** | **.01631** | F **.03086** | **.00959** |
| Stddev | .00063 | .00133 | .00050 | .00036 | .00019 | .00002 | .00079 | .00003 | .00085 | .00548 | .00040 |
| %RSD | 3.2894 | 10.783 | 3.2067 | .07538 | .18995 | .23435 | 5.1356 | .27663 | 5.2030 | 17.749 | 4.1547 |
| #1 | .01874 | .01137 | .01536 | .47767 | .09992 | .00988 | .01486 | .01021 | .01571 | .03474 | .00987 |
| #2 | .01963 | .01325 | .01607 | .47716 | .10019 | .00992 | .01598 | .01025 | .01691 | .02699 | .00931 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | -30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02315** | **.01351** |
| Stddev | .00011 | .00015 |
| %RSD | .46413 | 1.1190 |
| #1 | .02307 | .01362 |
| #2 | .02323 | .01340 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6380.5** | **85527.** | **5069.9** |
| Stddev | 10.5 | 307. | 33.3 |
| %RSD | .16396 | .35905 | .65665 |
| #1 | 6373.1 | 85309. | 5046.4 |
| #2 | 6387.9 | 85744. | 5093.5 |

Sample Name: 280-42370-F-2-A Acquired: 5/21/2013 20:01:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00094** | **.01224** | **.01752** | **33.568** | **1.5984** | **-.00025** | **-.00653** | **425.99** | **.00039** |
| Stddev | .00039 | .00026 | .00079 | .131 | .0113 | .00000 | .00428 | .62 | .00002 |
| %RSD | 41.546 | 2.1436 | 4.4850 | .39074 | .70484 | .79898 | 65.469 | .14648 | 4.4362 |
| #1 | .00066 | .01242 | .01808 | 33.661 | 1.5905 | -.00025 | -.00956 | 425.55 | .00037 |
| #2 | .00122 | .01205 | .01696 | 33.476 | 1.6064 | -.00025 | -.00351 | 426.43 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01255** | **.03450** | **.00060** | **10.749** | W **118.59** | **.10158** | **209.36** | **6.2393** | **.00481** |
| Stddev | .00013 | .00004 | .00007 | .065 | 1.39 | .00359 | .26 | .1006 | .00018 |
| %RSD | 1.0259 | .11058 | 11.710 | .60562 | 1.1681 | 3.5297 | .12581 | 1.6130 | 3.8323 |
| #1 | .01264 | .03447 | .00065 | 10.703 | 117.61 | .09905 | 209.55 | 6.3105 | .00468 |
| #2 | .01246 | .03453 | .00055 | 10.795 | 119.57 | .10412 | 209.18 | 6.1681 | .00494 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **1342.0** | **.30294** | **3.4475** | **.00344** | **22.472** | **.00085** | **.00300** | **38.383** | **.00282** |
| Stddev | 10.3 | .00041 | .0143 | .00097 | .108 | .00052 | .00156 | .292 | .00014 |
| %RSD | .76534 | .13560 | .41343 | 28.225 | .48067 | 60.980 | 51.932 | .76002 | 5.0631 |
| #1 | 1334.7 | .30323 | 3.4375 | .00412 | 22.548 | .00048 | .00411 | 38.176 | .00292 |
| #2 | 1349.2 | .30265 | 3.4576 | .00275 | 22.395 | .00122 | .00190 | 38.589 | .00272 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.6543** | **.00309** | **.02989** | **-.00502** | W **-.06420** | **.01631** | **.00924** | **.01348** |
| Stddev | .0353 | .00066 | .00046 | .00152 | .00439 | .00010 | .00007 | .00304 |
| %RSD | .96742 | 21.329 | 1.5556 | 30.310 | 6.8403 | .63866 | .70540 | 22.568 |
| #1 | 3.6293 | .00262 | .02956 | -.00395 | -.06109 | .01623 | .00929 | .01563 |
| #2 | 3.6793 | .00355 | .03022 | -.00610 | -.06730 | .01638 | .00920 | .01133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5815.8** | **77975.** | **5088.3** |
| Stddev | 14.2 | 319. | 21.7 |
| %RSD | .24388 | .40950 | .42650 |
| #1 | 5805.8 | 77749. | 5103.7 |
| #2 | 5825.9 | 78201. | 5073.0 |

Sample Name: 280-42370-F-4-A Acquired: 5/21/2013 20:05:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **.01183** | **.00952** | **4.6556** | **.44472** | **-.00007** | **-.00715** | **280.07** | **.00054** |
| Stddev | .00064 | .00033 | .00169 | .0012 | .00287 | .00009 | .00131 | 6.43 | .00031 |
| %RSD | 64.422 | 2.7604 | 17.758 | .02567 | .64524 | 117.20 | 18.305 | 2.2968 | 56.947 |
| #1 | .00054 | .01160 | .01071 | 4.6547 | .44675 | -.00001 | -.00623 | 284.62 | .00032 |
| #2 | .00144 | .01206 | .00832 | 4.6564 | .44270 | -.00013 | -.00808 | 275.52 | .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00360** | **.00340** | **.00005** | **9.4104** | **30.875** | **.02182** | **151.69** | **5.9243** | **.00024** |
| Stddev | .00033 | .00007 | .00008 | .0610 | .108 | .00207 | .25 | .0053 | .00004 |
| %RSD | 9.0217 | 1.9906 | 147.93 | .64829 | .34954 | 9.4852 | .16576 | .09000 | 17.373 |
| #1 | .00383 | .00345 | .00011 | 9.4535 | 30.951 | .02035 | 151.87 | 5.9205 | .00021 |
| #2 | .00337 | .00335 | -.00000 | 9.3673 | 30.799 | .02328 | 151.51 | 5.9280 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **246.25** | **.11070** | **1.1461** | **.00375** | **6.8491** | **-.00070** | **-.00144** | **42.425** | **.00104** |
| Stddev | 1.67 | .00031 | .0031 | .00023 | .0385 | .00007 | .00040 | .209 | .00040 |
| %RSD | .67941 | .27855 | .27170 | 6.1038 | .56174 | 10.599 | 27.973 | .49295 | 38.372 |
| #1 | 247.43 | .11048 | 1.1439 | .00391 | 6.8219 | -.00064 | -.00116 | 42.573 | .00132 |
| #2 | 245.06 | .11091 | 1.1483 | .00359 | 6.8763 | -.00075 | -.00173 | 42.277 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6280** | **.00082** | **.00642** | **-.00327** | W **-.05282** | **.00239** | **.00499** | **.00045** |
| Stddev | .0113 | .00065 | .00024 | .00059 | .01504 | .00092 | .00003 | .00092 |
| %RSD | .69622 | 79.503 | 3.7697 | 18.024 | 28.468 | 38.733 | .60335 | 203.00 |
| #1 | 1.6360 | .00036 | .00659 | -.00286 | -.04219 | .00173 | .00497 | .00110 |
| #2 | 1.6200 | .00128 | .00625 | -.00369 | -.06345 | .00304 | .00501 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6043.0** | **81661.** | **5048.0** |
| Stddev | 18.4 | 415. | 43.9 |
| %RSD | .30499 | .50773 | .87047 |
| #1 | 6029.9 | 81368. | 5016.9 |
| #2 | 6056.0 | 81954. | 5079.1 |

Sample Name: 280-42370-F-4-A@10 Acquired: 5/21/2013 20:08:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00144** | **.00235** | **.49825** | **.04698** | **-.00009** | **-.00076** | **30.311** | **.00012** |
| Stddev | .00100 | .00013 | .00061 | .00255 | .00077 | .00002 | .00240 | .031 | .00019 |
| %RSD | 623.03 | 9.0654 | 25.951 | .51147 | 1.6477 | 17.574 | 313.80 | .10338 | 168.34 |
| #1 | -.00055 | .00154 | .00279 | .50005 | .04753 | -.00011 | -.00246 | 30.289 | .00025 |
| #2 | .00087 | .00135 | .00192 | .49645 | .04643 | -.00008 | .00093 | 30.333 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00040** | **-.00050** | **1.0098** | **3.5003** | **.00041** | **16.000** | **.64082** | **.00013** |
| Stddev | .00013 | .00001 | .00015 | .0018 | .0168 | .00228 | .042 | .00085 | .00008 |
| %RSD | 60.983 | 2.9627 | 29.220 | .18210 | .47952 | 553.18 | .26027 | .13239 | 56.624 |
| #1 | .00030 | .00040 | -.00040 | 1.0085 | 3.4884 | .00202 | 16.030 | .64142 | .00019 |
| #2 | .00012 | .00039 | -.00061 | 1.0111 | 3.5122 | -.00120 | 15.971 | .64022 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.848** | **.01181** | **.14189** | **.00012** | **.66457** | **.00131** | **-.00306** | **4.3375** | **-.00007** |
| Stddev | .247 | .00008 | .00312 | .00099 | .00183 | .00036 | .00023 | .0068 | .00021 |
| %RSD | .95413 | .68039 | 2.1961 | 846.11 | .27592 | 27.803 | 7.5555 | .15658 | 324.85 |
| #1 | 25.674 | .01187 | .14409 | .00081 | .66327 | .00105 | -.00289 | 4.3327 | -.00022 |
| #2 | 26.022 | .01175 | .13969 | -.00058 | .66586 | .00157 | -.00322 | 4.3423 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16927** | **-.00021** | **.00078** | **.00053** | **.02357** | **-.00000** | **.00455** | **.00213** |
| Stddev | .00006 | .00205 | .00012 | .00080 | .01098 | .00022 | .00024 | .00106 |
| %RSD | .03625 | 964.90 | 15.481 | 152.08 | 46.592 | 7569.2 | 5.2356 | 50.039 |
| #1 | .16923 | .00124 | .00086 | .00109 | .01580 | -.00016 | .00471 | .00288 |
| #2 | .16931 | -.00167 | .00069 | -.00004 | .03133 | .00015 | .00438 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6372.9** | **84533.** | **5041.7** |
| Stddev | 3.2 | 94. | 25.3 |
| %RSD | .04986 | .11098 | .50271 |
| #1 | 6375.2 | 84599. | 5023.8 |
| #2 | 6370.7 | 84467. | 5059.6 |

Sample Name: 280-42373-E-2-A Acquired: 5/21/2013 20:10:32 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.43737** | **.00646** | **.05439** | **.05136** | **-.00008** | **-.00447** | **37.517** | **.00034** |
| Stddev | .00010 | .00072 | .00146 | .00226 | .00047 | .00005 | .00149 | .201 | .00015 |
| %RSD | 44.994 | .16403 | 22.664 | 4.1589 | .91730 | 55.549 | 33.340 | .53607 | 43.713 |
| #1 | .00028 | .43788 | .00750 | .05599 | .05169 | -.00005 | -.00342 | 37.659 | .00024 |
| #2 | .00014 | .43686 | .00543 | .05279 | .05103 | -.00011 | -.00553 | 37.375 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.01054** | **.00133** | **.54569** | **1.5258** | **.00100** | **5.0535** | **.01587** | **.00094** |
| Stddev | .00011 | .00008 | .00003 | .00666 | .0631 | .00384 | .0223 | .00004 | .00027 |
| %RSD | 86.850 | .78874 | 2.0242 | 1.2213 | 4.1346 | 384.79 | .44145 | .27542 | 28.368 |
| #1 | .00005 | .01048 | .00135 | .55040 | 1.5704 | .00371 | 5.0377 | .01590 | .00113 |
| #2 | .00020 | .01060 | .00132 | .54098 | 1.4812 | -.00172 | 5.0692 | .01584 | .00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.940** | **.00282** | **.28637** | **.00152** | **3.8691** | **.00034** | **-.00259** | **13.750** | **.00021** |
| Stddev | .593 | .00028 | .00098 | .00164 | .0220 | .00147 | .00014 | .104 | .00013 |
| %RSD | 2.4774 | 9.8070 | .34138 | 108.04 | .56852 | 431.56 | 5.2324 | .75648 | 62.603 |
| #1 | 23.521 | .00262 | .28567 | .00036 | 3.8847 | .00138 | -.00268 | 13.824 | .00012 |
| #2 | 24.360 | .00302 | .28706 | .00267 | 3.8536 | -.00070 | -.00249 | 13.676 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53238** | **.00244** | **.03435** | **.00161** | **-.03377** | **.01984** | **.00818** | **-.00208** |
| Stddev | .00296 | .00331 | .00023 | .00082 | .01570 | .00010 | .00030 | .00246 |
| %RSD | .55577 | 135.43 | .68333 | 51.153 | 46.504 | .51577 | 3.6109 | 118.22 |
| #1 | .53447 | .00010 | .03418 | .00103 | -.04487 | .01977 | .00797 | -.00034 |
| #2 | .53029 | .00478 | .03452 | .00219 | -.02266 | .01991 | .00839 | -.00382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6365.6** | **84912.** | **5073.4** |
| Stddev | 17.4 | 95. | 47.4 |
| %RSD | .27368 | .11224 | .93502 |
| #1 | 6353.3 | 84979. | 5039.9 |
| #2 | 6377.9 | 84845. | 5107.0 |

Sample Name: 280-42373-E-3-A Acquired: 5/21/2013 20:12:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00579** | **.00513** | **.04729** | **.04302** | **-.00002** | **-.00223** | **25.936** | **.00017** |
| Stddev | .00026 | .00005 | .00470 | .00148 | .00043 | .00002 | .00128 | .268 | .00003 |
| %RSD | 2171.7 | .78398 | 91.650 | 3.1395 | .99250 | 76.954 | 57.393 | 1.0330 | 17.576 |
| #1 | .00017 | .00575 | .00180 | .04834 | .04332 | -.00001 | -.00313 | 26.126 | .00019 |
| #2 | -.00020 | .00582 | .00845 | .04624 | .04271 | -.00003 | -.00132 | 25.747 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.01294** | **.00035** | **.01228** | **1.3652** | **-.00170** | **3.1579** | **.00163** | **.00146** |
| Stddev | .00007 | .00005 | .00032 | .00199 | .0246 | .00340 | .0091 | .00003 | .00017 |
| %RSD | 59.859 | .35416 | 93.551 | 16.199 | 1.8040 | 200.46 | .28790 | 1.8080 | 11.836 |
| #1 | -.00016 | .01297 | .00012 | .01087 | 1.3826 | -.00410 | 3.1643 | .00161 | .00159 |
| #2 | -.00007 | .01290 | .00058 | .01369 | 1.3478 | .00071 | 3.1515 | .00165 | .00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.214** | **.00108** | **.23411** | **.00138** | **4.5379** | **.00040** | **-.00048** | **12.673** | **-.00056** |
| Stddev | .104 | .00006 | .00481 | .00026 | .0135 | .00224 | .00028 | .050 | .00009 |
| %RSD | .46755 | 5.3207 | 2.0561 | 18.760 | .29657 | 565.46 | 57.921 | .39352 | 15.478 |
| #1 | 22.140 | .00104 | .23752 | .00156 | 4.5474 | .00198 | -.00028 | 12.708 | -.00062 |
| #2 | 22.287 | .00112 | .23071 | .00120 | 4.5284 | -.00119 | -.00067 | 12.638 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34322** | **.00174** | **-.00025** | **.00115** | **-.02886** | **.02336** | **.00440** | **-.00193** |
| Stddev | .00426 | .00088 | .00030 | .00121 | .00684 | .00015 | .00003 | .00264 |
| %RSD | 1.2420 | 50.915 | 121.58 | 104.67 | 23.709 | .63535 | .72988 | 136.65 |
| #1 | .34623 | .00111 | -.00046 | .00201 | -.02402 | .02346 | .00442 | -.00007 |
| #2 | .34021 | .00236 | -.00004 | .00030 | -.03370 | .02325 | .00437 | -.00380 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6391.8** | **85849.** | **5048.5** |
| Stddev | 1.3 | 522. | 84.0 |
| %RSD | .02039 | .60839 | 1.6637 |
| #1 | 6392.7 | 85480. | 4989.1 |
| #2 | 6390.9 | 86218. | 5107.9 |

Sample Name: 280-42373-E-4-A Acquired: 5/21/2013 20:15:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 174890 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **16.908** | **.00764** | **.05624** | **.22800** | **.00030** | W **-.01206** | **42.667** | **.00040** |
| Stddev | .00052 | .016 | .00020 | .00019 | .00030 | .00006 | .00440 | .058 | .00006 |
| %RSD | 562.06 | .09535 | 2.5764 | .33478 | .13312 | 21.448 | 36.485 | .13534 | 14.513 |
| #1 | .00046 | 16.919 | .00750 | .05638 | .22778 | .00035 | -.01517 | 42.626 | .00036 |
| #2 | -.00027 | 16.896 | .00778 | .05611 | .22821 | .00025 | -.00895 | 42.708 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01193** | **.02800** | **.03618** | **20.457** | **6.7365** | **.01811** | **13.356** | **.47189** | **.00136** |
| Stddev | .00011 | .00002 | .00026 | .017 | .0601 | .00114 | .000 | .00057 | .00008 |
| %RSD | .91532 | .05899 | .72143 | .08256 | .89158 | 6.2726 | .00287 | .12155 | 6.1000 |
| #1 | .01201 | .02799 | .03599 | 20.469 | 6.6940 | .01891 | 13.355 | .47148 | .00130 |
| #2 | .01186 | .02802 | .03636 | 20.445 | 6.7789 | .01731 | 13.356 | .47229 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.417** | **.01934** | **.75838** | **.00885** | **4.2748** | **.00135** | **.00206** | **44.254** | **.00075** |
| Stddev | .225 | .00037 | .00062 | .00076 | .0121 | .00089 | .00123 | .055 | .00051 |
| %RSD | .85064 | 1.8915 | .08151 | 8.6369 | .28360 | 65.462 | 59.564 | .12489 | 68.244 |
| #1 | 26.258 | .01908 | .75882 | .00831 | 4.2662 | .00198 | .00119 | 44.215 | .00039 |
| #2 | 26.576 | .01960 | .75794 | .00939 | 4.2834 | .00073 | .00292 | 44.293 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59355** | **.00879** | **1.3097** | **-.00046** | **-.03203** | **.07234** | **.08216** | **.00159** |
| Stddev | .00147 | .00007 | .0026 | .00060 | .01415 | .00001 | .00009 | .00089 |
| %RSD | .24792 | .81128 | .19878 | 130.40 | 44.188 | .01702 | .11053 | 55.956 |
| #1 | .59251 | .00874 | 1.3078 | -.00004 | -.02202 | .07233 | .08222 | .00222 |
| #2 | .59459 | .00884 | 1.3115 | -.00088 | -.04204 | .07234 | .08210 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6378.6** | **85337.** | **5124.0** |
| Stddev | 7.1 | 437. | 26.8 |
| %RSD | .11056 | .51177 | .52215 |
| #1 | 6383.6 | 85645. | 5105.0 |
| #2 | 6373.6 | 85028. | 5142.9 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 20:17:45 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00213** | **48.973** | **.00087** | **.01553** | **.00115** | **-.00010** | **1.0045** | **.00969** | **-.00072** | **.00186** | **-.00022** | **.00064** | **47.351** |
| Stddev | .00007 | .037 | .00229 | .00003 | .00004 | .00010 | .0017 | .00282 | .00015 | .00000 | .00001 | .00006 | .040 |
| %RSD | 3.1269 | .07589 | 264.44 | .17997 | 3.4237 | 104.19 | .17003 | 29.107 | 21.581 | .19454 | 4.3191 | 9.1859 | .08481 |
| #1 | .00208 | 49.000 | .00249 | .01555 | .00118 | -.00003 | 1.0033 | .01169 | -.00083 | .00186 | -.00023 | .00068 | 47.379 |
| #2 | .00218 | 48.947 | -.00075 | .01551 | .00112 | -.00017 | 1.0057 | .00770 | -.00061 | .00187 | -.00021 | .00059 | 47.322 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18149** | **-.00158** | **-.00532** | **-.00057** | **-.00162** | **266.64** | **.00098** | **.01766** | **.00201** | **4.9987** | **-.00198** | **.00150** | **.01659** |
| Stddev | .04673 | .00118 | .00092 | .00004 | .00016 | .17 | .00006 | .00014 | .00142 | .0018 | .00151 | .00248 | .00966 |
| %RSD | 25.746 | 74.530 | 17.354 | 7.3066 | 10.084 | .06275 | 5.8756 | .78174 | 70.611 | .03504 | 76.270 | 165.20 | 58.236 |
| #1 | .14845 | -.00241 | -.00466 | -.00060 | -.00150 | 266.52 | .00094 | .01756 | .00301 | 5.0000 | -.00305 | .00326 | .02343 |
| #2 | .21453 | -.00075 | -.00597 | -.00054 | -.00174 | 266.76 | .00102 | .01776 | .00101 | 4.9975 | -.00091 | -.00025 | .00976 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **.00040** | **5.1565** | **.00317** | **-.00080** | **10.079** | **.00022** | **.00293** | **-.03994** |
| Stddev | .00108 | .00015 | .0095 | .00021 | .00133 | .017 | .00101 | .00042 | .00126 |
| %RSD | 141.58 | 37.354 | .18333 | 6.5723 | 167.19 | .17058 | 455.61 | 14.362 | 3.1667 |
| #1 | -.00000 | .00029 | 5.1498 | .00303 | .00015 | 10.067 | -.00049 | .00322 | -.03904 |
| #2 | .00152 | .00051 | 5.1632 | .00332 | -.00174 | 10.092 | .00093 | .00263 | -.04083 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6256.3** | **83249.** | **5030.1** |
| Stddev | 29.4 | 414. | 7.1 |
| %RSD | .46924 | .49749 | .14065 |
| #1 | 6277.1 | 82957. | 5035.1 |
| #2 | 6235.6 | 83542. | 5025.1 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 20:20:07 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52949** | **.50735** | **1.0050** | **.50767** | **.52807** | **.47428** | **.00151** | **4.9626** | **.52125** | **.52672** | **.50665** | **.50378** |
| Stddev | .00108 | .00095 | .0035 | .00054 | .00309 | .00492 | .00021 | .0045 | .00043 | .00080 | .00027 | .00103 |
| %RSD | .20377 | .18677 | .34885 | .10631 | .58592 | 1.0371 | 14.099 | .09029 | .08285 | .15271 | .05284 | .20491 |
| #1 | .52873 | .50802 | 1.0075 | .50805 | .53026 | .47776 | .00166 | 4.9658 | .52095 | .52729 | .50684 | .50305 |
| #2 | .53025 | .50668 | 1.0025 | .50729 | .52588 | .47080 | .00136 | 4.9594 | .52156 | .52615 | .50646 | .50451 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3465** | **53.802** | **1.0877** | **20.285** | **.51841** | **.50402** | F **5.9734** | **.51405** | **.99427** | **1.0497** | **.00590** | **1.0405** |
| Stddev | .0070 | .283 | .0052 | .030 | .00042 | .00043 | .0606 | .00008 | .00120 | .0008 | .00093 | .0040 |
| %RSD | .30018 | .52560 | .47618 | .14859 | .08168 | .08615 | 1.0141 | .01578 | .12070 | .08075 | 15.778 | .38967 |
| #1 | 2.3515 | 54.002 | 1.0914 | 20.264 | .51811 | .50371 | 6.0162 | .51410 | .99512 | 1.0503 | .00656 | 1.0377 |
| #2 | 2.3415 | 53.602 | 1.0840 | 20.306 | .51871 | .50432 | 5.9306 | .51399 | .99342 | 1.0491 | .00524 | 1.0434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99289** | **4.7651** | **1.0136** | **.49494** | **.00209** | **.52195** | **1.0338** | **.01803** | **.50254** | **.51561** | **.50306** |
| Stddev | .00290 | .0149 | .0030 | .00415 | .00136 | .00000 | .0016 | .01364 | .00059 | .00196 | .00118 |
| %RSD | .29167 | .31168 | .29693 | .83910 | 64.984 | .00025 | .15380 | 75.639 | .11786 | .37997 | .23544 |
| #1 | .99494 | 4.7756 | 1.0115 | .49787 | .00306 | .52195 | 1.0327 | .00839 | .50296 | .51700 | .50390 |
| #2 | .99084 | 4.7546 | 1.0157 | .49200 | .00113 | .52195 | 1.0350 | .02767 | .50212 | .51422 | .50222 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6442.3** | **86739.** | **5125.6** |
| Stddev | .9 | 266. | 29.6 |
| %RSD | .01347 | .30674 | .57659 |
| #1 | 6443.0 | 86551. | 5104.7 |
| #2 | 6441.7 | 86927. | 5146.5 |

Sample Name: CCB Acquired: 5/21/2013 20:22:22 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **.00018** | **-.00072** | F **.01103** | W **.00072** | **.00001** | **.00105** | **-.00053** | **.00016** | **-.00019** | **.00000** |
| Stddev | .00000 | .00018 | .00099 | .00058 | .00048 | .00005 | .00209 | .00368 | .00011 | .00002 | .00004 |
| %RSD | .56662 | 102.15 | 138.27 | 5.2351 | 65.833 | 499.10 | 199.85 | 689.51 | 71.496 | 8.1246 | 1061.5 |
| #1 | .00061 | .00031 | -.00142 | .01144 | .00039 | .00005 | -.00043 | .00207 | .00024 | -.00020 | .00003 |
| #2 | .00060 | .00005 | -.00002 | .01062 | .00106 | -.00003 | .00252 | -.00314 | .00008 | -.00018 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00089** | **-.00005** | **.12592** | **-.00105** | **.00059** | **.00011** | **.00017** | F **.66735** | **-.00020** | **.00942** | **-.00054** |
| Stddev | .00026 | .00088 | .04523 | .00228 | .00347 | .00008 | .00009 | .01461 | .00005 | .00166 | .00094 |
| %RSD | 28.877 | 1691.3 | 35.918 | 216.56 | 590.44 | 71.650 | 52.816 | 2.1897 | 23.324 | 17.643 | 172.95 |
| #1 | -.00071 | -.00067 | .15790 | -.00266 | .00304 | .00017 | .00011 | .65701 | -.00023 | .01059 | -.00121 |
| #2 | -.00108 | .00057 | .09394 | .00056 | -.00187 | .00005 | .00024 | .67768 | -.00016 | .00824 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | | |
| Low Limit | | | | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00537** | **.00224** | **-.00121** | **-.00655** | **-.00011** | **.00001** | **-.00091** | **-.00004** | **.00073** | **.02455** | **.00018** |
| Stddev | .00062 | .00291 | .00064 | .01587 | .00153 | .00003 | .00190 | .00009 | .00001 | .02072 | .00053 |
| %RSD | 11.514 | 129.93 | 52.778 | 242.36 | 1360.0 | 293.16 | 208.68 | 219.11 | 2.0098 | 84.405 | 297.27 |
| #1 | .00493 | .00018 | -.00167 | -.01777 | .00097 | .00003 | .00043 | -.00010 | .00074 | .00990 | .00055 |
| #2 | .00581 | .00430 | -.00076 | .00467 | -.00119 | -.00001 | -.00226 | .00002 | .00072 | .03920 | -.00020 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00257** | **-.00060** |
| Stddev | .00008 | .00154 |
| %RSD | 3.1364 | 257.96 |
| #1 | .00262 | .00049 |
| #2 | .00251 | -.00169 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6291.8** | **85295.** | **4993.6** |
| Stddev | .5 | 147. | 114.3 |
| %RSD | .00734 | .17195 | 2.2894 |
| #1 | 6292.2 | 85192. | 5074.4 |
| #2 | 6291.5 | 85399. | 4912.7 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 20:24:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01125** | **.10461** | **.01676** | **.10904** | **.01138** | **.00090** | **.10961** | **.20694** | **.00551** | **.01118** | **.01029** |
| Stddev | .00006 | .00034 | .00050 | .00005 | .00011 | .00002 | .00393 | .00097 | .00016 | .00009 | .00004 |
| %RSD | .54561 | .32615 | 3.0130 | .04129 | .94164 | 2.0530 | 3.5849 | .47083 | 2.9572 | .79434 | .34594 |
| #1 | .01129 | .10437 | .01711 | .10908 | .01145 | .00092 | .11239 | .20625 | .00540 | .01124 | .01031 |
| #2 | .01120 | .10485 | .01640 | .10901 | .01130 | .00089 | .10683 | .20763 | .00563 | .01111 | .01026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01524** | **.10032** | **3.4782** | **.01058** | **.21360** | **.01093** | **.02062** | F **1.7598** | **.04279** | **2.9211** | W **.01088** |
| Stddev | .00019 | .00175 | .0106 | .00191 | .00164 | .00003 | .00014 | .0068 | .00007 | .0127 | .00078 |
| %RSD | 1.2533 | 1.7466 | .30451 | 18.082 | .76601 | .30574 | .70006 | .38637 | .17158 | .43626 | 7.1966 |
| #1 | .01538 | .10156 | 3.4707 | .01194 | .21476 | .01091 | .02052 | 1.7550 | .04274 | 2.9121 | .01032 |
| #2 | .01511 | .09908 | 3.4857 | .00923 | .21244 | .01096 | .02072 | 1.7646 | .04284 | 2.9301 | .01143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | 1.0000 | | | .00900 |
| Range | | | | | | | | 30.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00584** | **.01021** | **.01213** | **.49404** | **.10348** | **.01013** | **.01568** | **.01057** | **.01692** | W **.07300** | **.01025** |
| Stddev | .00038 | .00166 | .00188 | .00993 | .00055 | .00007 | .00110 | .00036 | .00047 | .04674 | .00066 |
| %RSD | 6.4902 | 16.301 | 15.461 | 2.0101 | .52680 | .69801 | 7.0265 | 3.3652 | 2.7535 | 64.028 | 6.4305 |
| #1 | .00611 | .01139 | .01346 | .50106 | .10310 | .01018 | .01490 | .01083 | .01725 | .10605 | .01071 |
| #2 | .00557 | .00903 | .01081 | .48702 | .10387 | .01008 | .01646 | .01032 | .01659 | .03995 | .00978 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02444** | **.01423** |
| Stddev | .00010 | .00201 |
| %RSD | .40003 | 14.156 |
| #1 | .02437 | .01566 |
| #2 | .02451 | .01281 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6322.2** | **84969.** | **4993.3** |
| Stddev | 1.7 | 199. | 26.8 |
| %RSD | .02756 | .23478 | .53662 |
| #1 | 6321.0 | 84828. | 5012.2 |
| #2 | 6323.5 | 85110. | 4974.3 |

Sample Name: MB 280-175116/1-A Acquired: 5/21/2013 20:27:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.00552** | **.00174** | W **.00936** | **.00053** | **-.00008** | **-.00159** | **.05618** | **-.00003** |
| Stddev | .00057 | .00010 | .00085 | .00009 | .00049 | .00002 | .00058 | .00085 | .00019 |
| %RSD | 107.44 | 1.8656 | 48.959 | .95255 | 91.783 | 29.692 | 36.760 | 1.5174 | 564.46 |
| #1 | .00093 | .00545 | .00114 | .00942 | .00019 | -.00006 | -.00117 | .05558 | -.00017 |
| #2 | .00013 | .00559 | .00235 | .00930 | .00088 | -.00010 | -.00200 | .05678 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | |
| Low Limit | | | | -.00500 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00005** | **.00021** | **.01525** | **.12906** | **-.00183** | **.01141** | **.00042** | **.00002** |
| Stddev | .00001 | .00008 | .00003 | .00066 | .03469 | .00106 | .00106 | .00003 | .00022 |
| %RSD | 12.130 | 165.97 | 12.100 | 4.2971 | 26.880 | 58.049 | 9.2562 | 5.9183 | 918.24 |
| #1 | .00006 | -.00001 | .00023 | .01571 | .10453 | -.00108 | .01066 | .00044 | .00018 |
| #2 | .00008 | .00011 | .00019 | .01478 | .15359 | -.00258 | .01216 | .00041 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.90890** | **-.00005** | F **.01341** | **-.00002** | **.04501** | **-.00017** | **-.00074** | **.01399** | **.00745** |
| Stddev | .00428 | .00010 | .00091 | .00051 | .00114 | .00037 | .00129 | .01321 | .00014 |
| %RSD | .47142 | 211.56 | 6.7546 | 2184.8 | 2.5355 | 216.13 | 174.20 | 94.395 | 1.9338 |
| #1 | .90587 | .00002 | .01277 | -.00039 | .04420 | .00009 | -.00166 | .00465 | .00755 |
| #2 | .91193 | -.00011 | .01405 | .00034 | .04582 | -.00043 | .00017 | .02333 | .00734 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .50000 | | .01000 | | | | | | |
| Low Limit | -.50000 | | -.01000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00005** | **.00039** | **-.00090** | **.02945** | **-.00025** | **.00415** | **.00047** |
| Stddev | .00001 | .00101 | .00029 | .00009 | .00594 | .00020 | .00007 | .00098 |
| %RSD | 6.3900 | 2201.7 | 75.087 | 9.7020 | 20.153 | 78.157 | 1.7111 | 209.67 |
| #1 | .00021 | .00076 | .00018 | -.00084 | .02525 | -.00040 | .00410 | .00116 |
| #2 | .00019 | -.00067 | .00060 | -.00096 | .03365 | -.00011 | .00420 | -.00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6531.8** | **88011.** | **5191.3** |
| Stddev | 6.6 | 1337. | 8.9 |
| %RSD | .10125 | 1.5194 | .17180 |
| #1 | 6536.5 | 87066. | 5197.6 |
| #2 | 6527.1 | 88957. | 5185.0 |

Sample Name: LCS 280-175116/2-A Acquired: 5/21/2013 20:29:45 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05612** | **1.9389** | **1.0031** | **.99187** | **2.1473** | **.04848** | **2.1019** | **49.086** | **.10624** |
| Stddev | .00006 | .0022 | .0041 | .00135 | .0158 | .00031 | .0021 | .255 | .00001 |
| %RSD | .09873 | .11511 | .40512 | .13647 | .73717 | .63564 | .09954 | .51915 | .01227 |
| #1 | .05608 | 1.9405 | 1.0002 | .99091 | 2.1361 | .04826 | 2.1034 | 48.905 | .10623 |
| #2 | .05616 | 1.9373 | 1.0060 | .99283 | 2.1585 | .04870 | 2.1004 | 49.266 | .10625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51837** | **.20299** | **.25494** | **.96327** | **54.712** | **1.0991** | **50.310** | **.51302** | **1.0071** |
| Stddev | .00063 | .00014 | .00004 | .00689 | .310 | .0057 | .021 | .00082 | .0009 |
| %RSD | .12178 | .07067 | .01748 | .71476 | .56673 | .52289 | .04092 | .16076 | .08885 |
| #1 | .51793 | .20289 | .25497 | .96814 | 54.493 | 1.0951 | 50.295 | .51244 | 1.0065 |
| #2 | .51882 | .20309 | .25491 | .95840 | 54.931 | 1.1032 | 50.324 | .51361 | 1.0077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **56.465** | **.50472** | **10.023** | **.51702** | **.04126** | **.52238** | **1.9881** | F **.76360** | **2.0150** |
| Stddev | .628 | .00057 | .017 | .00112 | .00031 | .00234 | .0122 | .01200 | .0002 |
| %RSD | 1.1131 | .11262 | .17418 | .21624 | .74082 | .44843 | .61505 | 1.5709 | .00778 |
| #1 | 56.020 | .50512 | 10.010 | .51623 | .04148 | .52072 | 1.9795 | .75512 | 2.0149 |
| #2 | 56.909 | .50431 | 10.035 | .51781 | .04105 | .52403 | 1.9968 | .77208 | 2.0151 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 56.000 | | | | | | | 7.0000 | |
| Low Limit | 45.000 | | | | | | | 1.0000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0003** | **1.0498** | **1.0538** | **2.0371** | **2.1376** | **.50744** | **.50668** | **.50442** |
| Stddev | .0061 | .0012 | .0013 | .0028 | .0164 | .00117 | .00003 | .00356 |
| %RSD | .60650 | .11347 | .12563 | .13597 | .76496 | .23080 | .00602 | .70482 |
| #1 | .99605 | 1.0490 | 1.0528 | 2.0390 | 2.1491 | .50661 | .50666 | .50190 |
| #2 | 1.0046 | 1.0506 | 1.0547 | 2.0351 | 2.1260 | .50827 | .50670 | .50693 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6259.5** | **84572.** | **5030.2** |
| Stddev | 5.0 | 153. | 44.2 |
| %RSD | .08044 | .18086 | .87889 |
| #1 | 6255.9 | 84680. | 5061.4 |
| #2 | 6263.0 | 84464. | 4998.9 |

Sample Name: 550-1883-A-1-G Acquired: 5/21/2013 20:31:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **84.953** | **.05961** | **.06047** | **.94611** | **.00377** | **-.00403** | **124.11** | **.00405** |
| Stddev | .00044 | .807 | .00115 | .00067 | .00819 | .00002 | .00217 | 1.14 | .00001 |
| %RSD | 72.686 | .95011 | 1.9275 | 1.1097 | .86596 | .46201 | 53.847 | .92140 | .32197 |
| #1 | -.00029 | 85.524 | .06042 | .06094 | .95190 | .00376 | -.00250 | 124.92 | .00406 |
| #2 | -.00091 | 84.382 | .05879 | .05999 | .94032 | .00379 | -.00557 | 123.30 | .00404 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05687** | **.16498** | **.18189** | **133.51** | **32.222** | **.14163** | **42.682** | **2.9335** | **.00531** |
| Stddev | .00024 | .00038 | .00076 | .11 | .293 | .00029 | .037 | .0009 | .00015 |
| %RSD | .42018 | .23115 | .41523 | .08447 | .91057 | .20808 | .08622 | .02929 | 2.7776 |
| #1 | .05703 | .16471 | .18242 | 133.43 | 32.429 | .14142 | 42.708 | 2.9341 | .00520 |
| #2 | .05670 | .16525 | .18135 | 133.59 | 32.014 | .14184 | 42.656 | 2.9329 | .00541 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2737** | **.14320** | **8.2248** | **.17097** | **2.3844** | **.00246** | **-.00009** | **2.4966** | **.01281** |
| Stddev | .0393 | .00011 | .0150 | .00072 | .0016 | .00336 | .00132 | .0198 | .00028 |
| %RSD | 1.2018 | .07880 | .18297 | .42149 | .06630 | 136.37 | 1398.2 | .79272 | 2.1800 |
| #1 | 3.3016 | .14312 | 8.2141 | .17046 | 2.3832 | .00009 | .00084 | 2.5106 | .01301 |
| #2 | 3.2459 | .14328 | 8.2354 | .17148 | 2.3855 | .00484 | -.00103 | 2.4826 | .01261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56788** | **.07336** | **3.9930** | **-.00403** | F **-.15014** | **.25804** | **.51584** | **.06029** |
| Stddev | .00580 | .00004 | .0004 | .00118 | .00401 | .00012 | .00009 | .00164 |
| %RSD | 1.0222 | .05688 | .01093 | 29.259 | 2.6707 | .04668 | .01728 | 2.7189 |
| #1 | .57198 | .07339 | 3.9927 | -.00319 | -.15298 | .25796 | .51578 | .05913 |
| #2 | .56377 | .07333 | 3.9933 | -.00486 | -.14731 | .25813 | .51591 | .06145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6952.9** | **92036.** | **5676.9** |
| Stddev | 12.9 | 227. | 71.4 |
| %RSD | .18488 | .24697 | 1.2569 |
| #1 | 6962.0 | 92197. | 5626.5 |
| #2 | 6943.8 | 91875. | 5727.4 |

Sample Name: sd 550-1883-A-1-G@5 Acquired: 5/21/2013 20:34:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **18.969** | **.01246** | **.01928** | **.21069** | **.00085** | **-.00043** | **27.592** | **.00086** |
| Stddev | .00044 | .093 | .00066 | .00005 | .00088 | .00002 | .00121 | .121 | .00008 |
| %RSD | 239.66 | .49236 | 5.3189 | .25115 | .41638 | 1.8629 | 283.36 | .43928 | 9.5170 |
| #1 | .00013 | 19.035 | .01199 | .01931 | .21131 | .00084 | -.00128 | 27.677 | .00081 |
| #2 | -.00050 | 18.903 | .01292 | .01925 | .21007 | .00086 | .00043 | 27.506 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01278** | **.03623** | **.03832** | **28.315** | **7.1650** | **.03096** | **9.4258** | **.64616** | **.00113** |
| Stddev | .00023 | .00010 | .00020 | .131 | .0482 | .00144 | .0213 | .00166 | .00021 |
| %RSD | 1.7929 | .27872 | .51399 | .46091 | .67220 | 4.6610 | .22629 | .25650 | 18.464 |
| #1 | .01262 | .03615 | .03818 | 28.407 | 7.1309 | .03198 | 9.4409 | .64733 | .00098 |
| #2 | .01295 | .03630 | .03846 | 28.223 | 7.1990 | .02994 | 9.4107 | .64499 | .00128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1079** | **.03199** | **1.7890** | **.03824** | **.50583** | **.00142** | **-.00190** | **.53987** | **.00236** |
| Stddev | .0118 | .00017 | .0008 | .00020 | .00161 | .00006 | .00018 | .02723 | .00091 |
| %RSD | 1.0621 | .53754 | .04286 | .51635 | .31750 | 4.3631 | 9.4310 | 5.0436 | 38.465 |
| #1 | 1.0996 | .03187 | 1.7896 | .03810 | .50469 | .00146 | -.00203 | .55913 | .00301 |
| #2 | 1.1163 | .03211 | 1.7885 | .03838 | .50697 | .00138 | -.00177 | .52062 | .00172 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12608** | **.01675** | **.85857** | **.00082** | **-.02742** | **.05525** | **.11808** | **.01383** |
| Stddev | .00064 | .00203 | .00158 | .00126 | .01400 | .00011 | .00127 | .00151 |
| %RSD | .51023 | 12.109 | .18383 | 153.28 | 51.057 | .19219 | 1.0756 | 10.949 |
| #1 | .12654 | .01531 | .85968 | -.00007 | -.01752 | .05533 | .11898 | .01490 |
| #2 | .12563 | .01818 | .85745 | .00172 | -.03732 | .05517 | .11718 | .01276 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6628.3** | **88369.** | **5166.6** |
| Stddev | 4.2 | 450. | 1.4 |
| %RSD | .06356 | .50893 | .02794 |
| #1 | 6631.3 | 88051. | 5165.6 |
| #2 | 6625.4 | 88687. | 5167.6 |

Sample Name: 550-1883-A-1-H MS  Acquired: 5/21/2013 20:36:37  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04850** | **139.75** | **.91124** | **.88902** | **2.9893** | **.04503** | **1.7933** | **193.84** | **.09405** |
| Stddev | .00064 | .04 | .00418 | .00409 | .0031 | .00007 | .0075 | .14 | .00044 |
| %RSD | 1.3214 | .02533 | .45864 | .46052 | .10460 | .14744 | .41989 | .07066 | .47181 |
| #1 | .04895 | 139.72 | .91420 | .89192 | 2.9871 | .04498 | 1.7986 | 193.93 | .09437 |
| #2 | .04804 | 139.77 | .90829 | .88613 | 2.9915 | .04507 | 1.7880 | 193.74 | .09374 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49212** | **.37758** | **.48780** | **178.95** | **91.375** | **1.1358** | **96.871** | **3.8502** | **.81274** |
| Stddev | .00351 | .00209 | .00073 | .23 | .294 | .0047 | .187 | .0415 | .00586 |
| %RSD | .71233 | .55472 | .15065 | .12579 | .32227 | .41425 | .19326 | 1.0772 | .72064 |
| #1 | .49460 | .37906 | .48832 | 178.79 | 91.583 | 1.1391 | 97.004 | 3.8208 | .81689 |
| #2 | .48964 | .37610 | .48728 | 179.11 | 91.167 | 1.1324 | 96.739 | 3.8795 | .80860 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.015** | **.59501** | **16.084** | **.61353** | **2.7961** | **.23012** | **1.6504** | **3.9398** | **1.6196** |
| Stddev | .159 | .00382 | .102 | .00303 | .0258 | .00238 | .0161 | .0388 | .0109 |
| %RSD | .29899 | .64217 | .63131 | .49347 | .92251 | 1.0347 | .97624 | .98511 | .67234 |
| #1 | 52.902 | .59771 | 16.155 | .61567 | 2.8143 | .23180 | 1.6618 | 3.9672 | 1.6273 |
| #2 | 53.127 | .59231 | 16.012 | .61139 | 2.7779 | .22843 | 1.6390 | 3.9124 | 1.6119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5362** | **.98772** | **7.6064** | **1.6139** | **1.7055** | **.76099** | **1.0039** | **.48931** |
| Stddev | .0048 | .00050 | .0184 | .0103 | .0178 | .00200 | .0034 | .00162 |
| %RSD | .31521 | .05045 | .24242 | .63859 | 1.0430 | .26315 | .33409 | .33187 |
| #1 | 1.5396 | .98808 | 7.6194 | 1.6211 | 1.7181 | .76241 | 1.0063 | .49046 |
| #2 | 1.5327 | .98737 | 7.5933 | 1.6066 | 1.6929 | .75958 | 1.0015 | .48816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6984.6** | **92214.** | **5673.0** |
| Stddev | 29.3 | 240. | 11.8 |
| %RSD | .42012 | .25972 | .20731 |
| #1 | 6963.9 | 92045. | 5664.7 |
| #2 | 7005.4 | 92383. | 5681.3 |

Sample Name: 550-1883-A-1-I MSD  Acquired: 5/21/2013 20:38:54  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04979** | **142.27** | **.93763** | **.89809** | **3.0916** | **.04586** | **1.8384** | **198.80** | **.09623** |
| Stddev | .00010 | .10 | .00366 | .00075 | .0022 | .00003 | .0008 | .29 | .00001 |
| %RSD | .20954 | .06835 | .39058 | .08317 | .07024 | .07339 | .04241 | .14770 | .00783 |
| #1 | .04987 | 142.33 | .94022 | .89862 | 3.0931 | .04588 | 1.8390 | 199.00 | .09622 |
| #2 | .04972 | 142.20 | .93504 | .89757 | 3.0900 | .04584 | 1.8379 | 198.59 | .09623 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50154** | **.35922** | **.41360** | **154.30** | **91.934** | **1.1591** | **98.034** | **4.0818** | **.82390** |
| Stddev | .00115 | .00101 | .00149 | .05 | .252 | .0035 | .010 | .0146 | .00193 |
| %RSD | .22833 | .28140 | .36003 | .03324 | .27395 | .30078 | .00987 | .35723 | .23401 |
| #1 | .50235 | .35994 | .41465 | 154.26 | 92.112 | 1.1616 | 98.027 | 4.0921 | .82527 |
| #2 | .50073 | .35851 | .41254 | 154.33 | 91.756 | 1.1567 | 98.040 | 4.0715 | .82254 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **53.022** | **.58429** | **16.853** | **.61831** | **2.5633** | **.23121** | **1.7001** | **4.1453** | **1.6493** |
| Stddev | .018 | .00164 | .008 | .00032 | .0008 | .00148 | .0023 | .0035 | .0029 |
| %RSD | .03407 | .28003 | .04852 | .05207 | .03130 | .63855 | .13574 | .08466 | .17909 |
| #1 | 53.009 | .58544 | 16.859 | .61854 | 2.5639 | .23225 | 1.6985 | 4.1428 | 1.6514 |
| #2 | 53.035 | .58313 | 16.847 | .61809 | 2.5628 | .23016 | 1.7017 | 4.1478 | 1.6472 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5771** | **1.0247** | **7.5410** | **1.6564** | **1.7008** | **.77349** | **1.0373** | **.49161** |
| Stddev | .0039 | .0083 | .0057 | .0001 | .0124 | .00028 | .0002 | .00406 |
| %RSD | .24693 | .81390 | .07508 | .00476 | .72623 | .03602 | .01923 | .82524 |
| #1 | 1.5799 | 1.0188 | 7.5370 | 1.6564 | 1.6921 | .77369 | 1.0371 | .49448 |
| #2 | 1.5743 | 1.0306 | 7.5450 | 1.6563 | 1.7095 | .77329 | 1.0374 | .48874 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6988.1** | **92539.** | **5670.0** |
| Stddev | 22.1 | 141. | 1.9 |
| %RSD | .31662 | .15257 | .03271 |
| #1 | 6972.5 | 92439. | 5671.3 |
| #2 | 7003.8 | 92639. | 5668.7 |

Sample Name: 550-1883-A-2-C Acquired: 5/21/2013 20:41:10 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00153** | **92.674** | **.07295** | **.02852** | **1.1609** | **.00489** | **-.00021** | **316.04** | **.00158** |
| Stddev | .00061 | .532 | .00102 | .00010 | .0024 | .00003 | .00074 | 1.81 | .00003 |
| %RSD | 39.610 | .57354 | 1.4001 | .36127 | .20221 | .63780 | 351.42 | .57259 | 1.6927 |
| #1 | -.00110 | 92.298 | .07367 | .02859 | 1.1593 | .00487 | .00031 | 314.76 | .00159 |
| #2 | -.00196 | 93.050 | .07223 | .02844 | 1.1626 | .00492 | -.00074 | 317.32 | .00156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06169** | **.15800** | **.15610** | **143.15** | **21.734** | **.19039** | **42.585** | **5.1271** | **.00373** |
| Stddev | .00003 | .00013 | .00064 | .40 | .179 | .00013 | .046 | .0424 | .00024 |
| %RSD | .04740 | .07985 | .41023 | .27729 | .82587 | .06655 | .10687 | .82618 | 6.5007 |
| #1 | .06167 | .15809 | .15655 | 142.87 | 21.607 | .19030 | 42.617 | 5.0972 | .00356 |
| #2 | .06171 | .15791 | .15565 | 143.43 | 21.861 | .19048 | 42.553 | 5.1571 | .00391 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.9553** | **.09967** | **4.0548** | **.09440** | **.87718** | **-.00115** | **.00025** | **2.3239** | **.01425** |
| Stddev | .0188 | .00017 | .0106 | .00083 | .00020 | .00202 | .00007 | .0027 | .00022 |
| %RSD | .63471 | .17168 | .26189 | .87507 | .02290 | 174.85 | 26.148 | .11803 | 1.5420 |
| #1 | 2.9420 | .09955 | 4.0473 | .09499 | .87732 | -.00258 | .00020 | 2.3220 | .01409 |
| #2 | 2.9686 | .09979 | 4.0623 | .09382 | .87704 | .00027 | .00030 | 2.3258 | .01440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48830** | **.10259** | **3.0113** | **-.00495** | F **-.27147** | **.29453** | **.32813** | **.03713** |
| Stddev | .00198 | .00156 | .0021 | .00078 | .01695 | .00085 | .00039 | .00162 |
| %RSD | .40650 | 1.5185 | .07006 | 15.819 | 6.2447 | .28874 | .11942 | 4.3597 |
| #1 | .48689 | .10149 | 3.0098 | -.00550 | -.28346 | .29513 | .32841 | .03827 |
| #2 | .48970 | .10369 | 3.0128 | -.00439 | -.25949 | .29393 | .32786 | .03598 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7315.8** | **97166.** | **5987.6** |
| Stddev | 19.6 | 111. | 18.2 |
| %RSD | .26799 | .11458 | .30390 |
| #1 | 7302.0 | 97245. | 6000.5 |
| #2 | 7329.7 | 97087. | 5974.8 |

Sample Name: 550-1883-A-3-C  Acquired: 5/21/2013 20:43:41  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **101.61** | **.08069** | **.05630** | **.98836** | **.00519** | **.00348** | **111.99** | **.00172** |
| Stddev | .00016 | .42 | .00142 | .00030 | .00476 | .00015 | .00024 | .19 | .00026 |
| %RSD | 25.954 | .41040 | 1.7603 | .54030 | .48206 | 2.8062 | 6.9787 | .17249 | 14.865 |
| #1 | -.00050 | 101.31 | .08169 | .05609 | .98499 | .00509 | .00365 | 111.86 | .00190 |
| #2 | -.00073 | 101.90 | .07968 | .05652 | .99173 | .00529 | .00331 | 112.13 | .00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06157** | **.15715** | **.15149** | **145.63** | **29.543** | **.16353** | **42.667** | **3.3303** | **.00217** |
| Stddev | .00017 | .00033 | .00042 | .62 | .144 | .00218 | .035 | .0380 | .00013 |
| %RSD | .27964 | .20903 | .27979 | .42792 | .48608 | 1.3319 | .08257 | 1.1421 | 5.8676 |
| #1 | .06145 | .15692 | .15119 | 146.07 | 29.442 | .16507 | 42.642 | 3.3035 | .00208 |
| #2 | .06169 | .15738 | .15179 | 145.19 | 29.645 | .16199 | 42.692 | 3.3572 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.9013** | **.13999** | **6.8806** | **.16286** | **1.6305** | **.00086** | **-.00214** | **2.5587** | **.01355** |
| Stddev | .0001 | .00037 | .0132 | .00039 | .0008 | .00011 | .00287 | .0182 | .00028 |
| %RSD | .00257 | .26179 | .19158 | .24235 | .05214 | 13.327 | 134.16 | .71184 | 2.0539 |
| #1 | 2.9012 | .14025 | 6.8713 | .16258 | 1.6299 | .00094 | -.00011 | 2.5715 | .01336 |
| #2 | 2.9013 | .13973 | 6.8899 | .16314 | 1.6311 | .00077 | -.00418 | 2.5458 | .01375 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54874** | **.09198** | **4.4150** | **-.00355** | F **-.15401** | **.28959** | **.51939** | **.06594** |
| Stddev | .00110 | .00276 | .0022 | .00144 | .00825 | .00069 | .00045 | .00022 |
| %RSD | .20089 | 2.9985 | .05080 | 40.606 | 5.3579 | .23684 | .08607 | .33712 |
| #1 | .54796 | .09003 | 4.4134 | -.00253 | -.15984 | .29007 | .51907 | .06609 |
| #2 | .54952 | .09393 | 4.4166 | -.00457 | -.14817 | .28910 | .51971 | .06578 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7444.0** | **98707.** | **6010.5** |
| Stddev | 3.4 | 247. | 1.3 |
| %RSD | .04568 | .25011 | .02163 |
| #1 | 7441.6 | 98882. | 6011.4 |
| #2 | 7446.4 | 98533. | 6009.6 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 20:46:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00177** | **49.626** | **-.00053** | **.00748** | **.00102** | **-.00008** | **1.0271** | **.00472** | **-.00071** | **.00200** | **-.00013** | **.00073** | **47.975** |
| Stddev | .00036 | .445 | .00271 | .00054 | .00043 | .00004 | .0003 | .00336 | .00001 | .00007 | .00004 | .00048 | .002 |
| %RSD | 20.243 | .89572 | 514.95 | 7.2100 | 42.421 | 47.901 | .03328 | 71.146 | 1.9999 | 3.7326 | 32.791 | 65.689 | .00376 |
| #1 | .00152 | 49.940 | -.00244 | .00786 | .00133 | -.00011 | 1.0274 | .00710 | -.00072 | .00194 | -.00010 | .00107 | 47.974 |
| #2 | .00203 | 49.311 | .00139 | .00710 | .00071 | -.00006 | 1.0269 | .00235 | -.00070 | .00205 | -.00017 | .00039 | 47.976 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04614** | **.00062** | **-.00588** | **-.00047** | **-.00185** | **274.73** | **.00078** | **.00665** | **.00044** | **5.1373** | **-.00033** | **.00401** | **.00827** |
| Stddev | .00347 | .00006 | .00206 | .00004 | .00032 | 2.14 | .00010 | .00234 | .00005 | .0132 | .00004 | .00017 | .00322 |
| %RSD | 7.5289 | 10.194 | 35.008 | 8.9222 | 17.352 | .77859 | 12.872 | 35.132 | 12.368 | .25639 | 13.641 | 4.1547 | 38.907 |
| #1 | .04860 | .00067 | -.00443 | -.00044 | -.00162 | 276.24 | .00085 | .00830 | .00040 | 5.1280 | -.00036 | .00389 | .00599 |
| #2 | .04369 | .00058 | -.00734 | -.00050 | -.00208 | 273.22 | .00071 | .00500 | .00048 | 5.1466 | -.00030 | .00412 | .01055 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **.00029** | **5.2666** | **.00333** | **-.00252** | **10.278** | **-.00015** | **.00321** | **-.04267** |
| Stddev | .00020 | .00010 | .0159 | .00047 | .00066 | .068 | .00017 | .00031 | .00295 |
| %RSD | 16.657 | 35.135 | .30287 | 14.015 | 25.973 | .65861 | 112.33 | 9.7282 | 6.9167 |
| #1 | .00104 | .00022 | 5.2554 | .00300 | -.00206 | 10.230 | -.00027 | .00299 | -.04058 |
| #2 | .00132 | .00036 | 5.2779 | .00366 | -.00299 | 10.325 | -.00003 | .00343 | -.04476 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6312.3** | **83613.** | **4973.4** |
| Stddev | 13.7 | 69. | 44.1 |
| %RSD | .21707 | .08287 | .88766 |
| #1 | 6302.6 | 83564. | 4942.2 |
| #2 | 6321.9 | 83662. | 5004.6 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 20:48:23 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52976** | **.50885** | **1.0032** | **.50165** | **.53074** | **.47470** | **.00017** | **4.9898** | **.51830** | **.52678** | **.50916** | **.50735** |
| Stddev | .00035 | .00109 | .0019 | .00077 | .00114 | .00247 | .00035 | .0020 | .00022 | .00022 | .00022 | .00099 |
| %RSD | .06644 | .21375 | .18867 | .15411 | .21424 | .52102 | 204.33 | .04002 | .04244 | .04256 | .04370 | .19516 |
| #1 | .52951 | .50962 | 1.0045 | .50219 | .52993 | .47295 | .00042 | 4.9884 | .51815 | .52694 | .50900 | .50665 |
| #2 | .53001 | .50808 | 1.0018 | .50110 | .53154 | .47645 | -.00008 | 4.9912 | .51846 | .52662 | .50932 | .50805 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3503** | **54.714** | F **1.1043** | **20.453** | **.52154** | **.50536** | F **5.6759** | **.51557** | **.98653** | **1.0481** | **.00368** | **1.0345** |
| Stddev | .0013 | .144 | .0076 | .030 | .00101 | .00049 | .0271 | .00089 | .00036 | .0009 | .00112 | .0041 |
| %RSD | .05513 | .26254 | .68911 | .14811 | .19285 | .09734 | .47765 | .17220 | .03681 | .08965 | 30.401 | .39798 |
| #1 | 2.3494 | 54.612 | 1.0989 | 20.432 | .52083 | .50571 | 5.6568 | .51619 | .98627 | 1.0488 | .00447 | 1.0374 |
| #2 | 2.3512 | 54.815 | 1.1097 | 20.474 | .52226 | .50501 | 5.6951 | .51494 | .98678 | 1.0474 | .00289 | 1.0315 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | 1.0000 | | | | 5.0000 | | | | | |
| Range | | | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98531** | **4.7299** | **1.0154** | **.49948** | **.00109** | **.52414** | **1.0302** | **.02164** | **.50630** | **.52082** | **.50693** |
| Stddev | .00226 | .0181 | .0004 | .00254 | .00075 | .00042 | .0013 | .01303 | .00017 | .00048 | .00129 |
| %RSD | .22935 | .38268 | .03753 | .50775 | 68.745 | .07920 | .12822 | 60.198 | .03369 | .09156 | .25476 |
| #1 | .98690 | 4.7171 | 1.0157 | .49769 | .00162 | .52385 | 1.0311 | .03085 | .50618 | .52116 | .50602 |
| #2 | .98371 | 4.7427 | 1.0152 | .50127 | .00056 | .52444 | 1.0292 | .01243 | .50642 | .52049 | .50784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6403.1** | **85316.** | **4979.8** |
| Stddev | 15.1 | 64. | 21.3 |
| %RSD | .23563 | .07554 | .42778 |
| #1 | 6392.4 | 85270. | 4994.8 |
| #2 | 6413.7 | 85362. | 4964.7 |

Sample Name: CCB Acquired: 5/21/2013 20:50:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00012** | **.00267** | F **.00608** | **.00055** | **-.00005** | **-.00027** | **.00183** | **.00010** | **-.00022** | **.00001** | **-.00094** |
| Stddev | .00014 | .00083 | .00120 | .00044 | .00003 | .00009 | .00084 | .00334 | .00009 | .00008 | .00007 | .00004 |
| %RSD | 241.17 | 682.04 | 44.857 | 7.3140 | 5.6453 | 193.00 | 308.84 | 182.94 | 94.030 | 35.735 | 517.35 | 4.4951 |
| #1 | -.00004 | -.00046 | .00182 | .00640 | .00057 | .00002 | .00032 | .00419 | .00003 | -.00028 | -.00003 | -.00096 |
| #2 | .00016 | .00071 | .00352 | .00577 | .00053 | -.00011 | -.00086 | -.00054 | .00017 | -.00017 | .00006 | -.00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | | | | | | | | |
| Low Limit | | | | -.00312 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.14749** | **-.00201** | **.00028** | **.00009** | **.00035** | F **.34579** | **-.00018** | **.00473** | **.00033** | **.00103** | **.00130** |
| Stddev | .00130 | .02639 | .00039 | .00004 | .00000 | .00004 | .01057 | .00030 | .00452 | .00115 | .00033 | .00041 |
| %RSD | 400.22 | 17.891 | 19.491 | 12.706 | 5.3054 | 12.269 | 3.0556 | 163.29 | 95.433 | 349.04 | 32.189 | 31.290 |
| #1 | .00125 | .12883 | -.00174 | .00030 | .00009 | .00038 | .35326 | .00003 | .00793 | .00114 | .00079 | .00159 |
| #2 | -.00060 | .16615 | -.00229 | .00025 | .00010 | .00032 | .33832 | -.00040 | .00154 | -.00048 | .00126 | .00101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | .10000 | | | | | |
| Low Limit | | | | | | | -.10000 | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00207** | **-.00149** | **-.00011** | **.00003** | **-.00002** | **-.00000** | **.00121** | **-.01667** | **-.00034** | **.00266** | **-.00022** |
| Stddev | .00313 | .01444 | .00056 | .00004 | .00132 | .00007 | .00153 | .02970 | .00006 | .00028 | .00003 |
| %RSD | 151.33 | 967.55 | 508.60 | 133.28 | 8240.5 | 1976.5 | 126.40 | 178.19 | 16.712 | 10.480 | 13.946 |
| #1 | -.00014 | -.01170 | .00029 | .00000 | -.00095 | -.00005 | .00013 | .00433 | -.00038 | .00286 | -.00020 |
| #2 | .00428 | .00872 | -.00051 | .00006 | .00091 | .00005 | .00229 | -.03767 | -.00030 | .00247 | -.00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6420.2** | **86859.** | **4983.3** |
| Stddev | 4.2 | 1203. | 17.2 |
| %RSD | .06581 | 1.3845 | .34596 |
| #1 | 6423.2 | 87709. | 4971.2 |
| #2 | 6417.3 | 86009. | 4995.5 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 20:53:06 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01124** | **.11520** | **.01732** | **.10500** | **.01171** | **.00091** | **.11359** | **.21207** | **.00567** | **.01155** | **.01089** |
| Stddev | .00004 | .00010 | .00009 | .00057 | .00069 | .00002 | .00090 | .00076 | .00017 | .00018 | .00023 |
| %RSD | .31204 | .09025 | .51083 | .54618 | 5.9251 | 2.2301 | .79532 | .35770 | 3.0356 | 1.5668 | 2.1070 |
| #1 | .01126 | .11527 | .01738 | .10541 | .01121 | .00092 | .11296 | .21154 | .00579 | .01143 | .01105 |
| #2 | .01121 | .11513 | .01726 | .10459 | .01220 | .00090 | .11423 | .21261 | .00554 | .01168 | .01073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01566** | **.10326** | **3.5512** | **.01093** | **.22094** | **.01123** | **.02067** | F **1.4799** | **.04407** | **2.9546** | **.01041** |
| Stddev | .00017 | .00225 | .0362 | .00095 | .00171 | .00002 | .00011 | .0058 | .00009 | .0065 | .00115 |
| %RSD | 1.0660 | 2.1821 | 1.0204 | 8.7163 | .77556 | .15400 | .51904 | .39345 | .19470 | .21876 | 11.082 |
| #1 | .01578 | .10486 | 3.5255 | .01160 | .21973 | .01125 | .02059 | 1.4758 | .04401 | 2.9592 | .00960 |
| #2 | .01554 | .10167 | 3.5768 | .01026 | .22215 | .01122 | .02074 | 1.4840 | .04414 | 2.9500 | .01123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00643** | W **.01204** | **.01612** | **.49202** | **.10402** | **.01059** | **.01563** | **.01087** | W **.01894** | F **.09325** | **.01002** |
| Stddev | .00343 | .00037 | .00437 | .01133 | .00086 | .00007 | .00055 | .00015 | .00082 | .03175 | .00053 |
| %RSD | 53.280 | 3.0806 | 27.133 | 2.3024 | .82401 | .61812 | 3.5036 | 1.3657 | 4.3462 | 34.046 | 5.3350 |
| #1 | .00886 | .01230 | .01303 | .50003 | .10341 | .01064 | .01524 | .01077 | .01952 | .07080 | .01039 |
| #2 | .00401 | .01178 | .01922 | .48401 | .10462 | .01055 | .01602 | .01098 | .01836 | .11570 | .00964 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | .01500 | .06000 | |
| Range | | 20.000% | | | | | | | 20.000% | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02481** | **.01395** |
| Stddev | .00055 | .00184 |
| %RSD | 2.2084 | 13.180 |
| #1 | .02443 | .01265 |
| #2 | .02520 | .01525 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6490.2** | **87556.** | **5078.2** |
| Stddev | 2.0 | 259. | 32.8 |
| %RSD | .03011 | .29611 | .64495 |
| #1 | 6488.8 | 87373. | 5055.1 |
| #2 | 6491.6 | 87740. | 5101.4 |

Sample Name: 550-1883-A-4-C  Acquired: 5/21/2013 20:55:32  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00066** | **85.515** | **.09255** | **.03648** | **1.3279** | **.00386** | W **-.01042** | **183.91** | **.00184** |
| Stddev | .00003 | .358 | .00066 | .00027 | .0050 | .00006 | .00173 | .99 | .00001 |
| %RSD | 4.8691 | .41836 | .71080 | .72935 | .37339 | 1.6626 | 16.599 | .53612 | .75634 |
| #1 | -.00068 | 85.262 | .09208 | .03629 | 1.3244 | .00391 | -.01165 | 183.22 | .00185 |
| #2 | -.00064 | 85.768 | .09301 | .03667 | 1.3314 | .00382 | -.00920 | 184.61 | .00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 3.0000 | | |
| Low Limit | | | | | | | -.01000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07821** | **.19374** | **.17381** | **147.83** | **19.206** | **.14818** | **64.642** | **2.8429** | **.00159** |
| Stddev | .00044 | .00090 | .00051 | .21 | .092 | .00195 | .135 | .0047 | .00018 |
| %RSD | .55900 | .46462 | .29108 | .14393 | .47800 | 1.3175 | .20852 | .16414 | 11.123 |
| #1 | .07790 | .19310 | .17417 | 147.98 | 19.141 | .14956 | 64.737 | 2.8462 | .00172 |
| #2 | .07852 | .19438 | .17345 | 147.68 | 19.271 | .14680 | 64.546 | 2.8396 | .00147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.8809** | **.24897** | **6.7562** | **.05716** | **.71502** | **.00142** | **.00012** | **2.0877** | **.01258** |
| Stddev | .0126 | .00104 | .0450 | .00104 | .00109 | .00148 | .00567 | .0158 | .00092 |
| %RSD | .25775 | .41798 | .66570 | 1.8126 | .15307 | 104.78 | 4597.5 | .75633 | 7.3486 |
| #1 | 4.8720 | .24824 | 6.7244 | .05789 | .71425 | .00037 | .00413 | 2.0766 | .01323 |
| #2 | 4.8898 | .24971 | 6.7880 | .05642 | .71579 | .00246 | -.00388 | 2.0989 | .01192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.84761** | **.06865** | **6.2498** | **-.00447** | F **-.13166** | **.32532** | **.34324** | **.09518** |
| Stddev | .00320 | .00107 | .0081 | .00067 | .04206 | .00128 | .00186 | .00280 |
| %RSD | .37702 | 1.5607 | .13034 | 15.084 | 31.944 | .39406 | .54135 | 2.9394 |
| #1 | .84535 | .06789 | 6.2556 | -.00399 | -.10192 | .32622 | .34455 | .09716 |
| #2 | .84987 | .06941 | 6.2440 | -.00495 | -.16140 | .32441 | .34193 | .09320 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6912.9** | **92424.** | **5597.9** |
| Stddev | 13.3 | 374. | 30.4 |
| %RSD | .19215 | .40501 | .54312 |
| #1 | 6922.3 | 92159. | 5619.4 |
| #2 | 6903.5 | 92689. | 5576.5 |

Sample Name: 550-1883-A-5-D  Acquired: 5/21/2013 20:57:51  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **85.096** | **.05484** | **.04167** | **.91956** | **.00354** | **-.00806** | **87.118** | **.00221** |
| Stddev | .00060 | .477 | .00064 | .00059 | .00454 | .00000 | .00153 | .533 | .00003 |
| %RSD | 193.56 | .56097 | 1.1668 | 1.4061 | .49374 | .13929 | 19.012 | .61204 | 1.3696 |
| #1 | -.00011 | 85.433 | .05439 | .04126 | .92277 | .00353 | -.00698 | 87.495 | .00223 |
| #2 | .00073 | 84.758 | .05529 | .04209 | .91635 | .00354 | -.00914 | 86.741 | .00219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05787** | **.17215** | **.17625** | **140.41** | **25.237** | **.11122** | **38.892** | **2.8823** | **.00209** |
| Stddev | .00018 | .00061 | .00067 | .02 | .286 | .00148 | .091 | .0041 | .00074 |
| %RSD | .31741 | .35217 | .38190 | .01679 | 1.1348 | 1.3334 | .23404 | .14164 | 35.388 |
| #1 | .05800 | .17258 | .17673 | 140.40 | 25.439 | .11017 | 38.956 | 2.8852 | .00262 |
| #2 | .05774 | .17172 | .17578 | 140.43 | 25.034 | .11227 | 38.827 | 2.8794 | .00157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5369** | **.12270** | **5.5285** | **.12100** | **1.7553** | **.00239** | **.00338** | **2.5932** | **.01166** |
| Stddev | .0081 | .00050 | .0257 | .00083 | .0048 | .00104 | .00054 | .0084 | .00088 |
| %RSD | .31975 | .40844 | .46486 | .68791 | .27320 | 43.708 | 15.841 | .32479 | 7.5694 |
| #1 | 2.5426 | .12305 | 5.5467 | .12159 | 1.7587 | .00165 | .00376 | 2.5873 | .01229 |
| #2 | 2.5312 | .12234 | 5.5103 | .12041 | 1.7519 | .00313 | .00300 | 2.5992 | .01104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49023** | **.08166** | **4.5348** | **-.00345** | F **-.10325** | **.26263** | **.44790** | **.05743** |
| Stddev | .00527 | .00090 | .0021 | .00042 | .00184 | .00054 | .00123 | .00103 |
| %RSD | 1.0745 | 1.0993 | .04536 | 12.125 | 1.7855 | .20440 | .27485 | 1.7968 |
| #1 | .49395 | .08229 | 4.5362 | -.00316 | -.10195 | .26301 | .44877 | .05816 |
| #2 | .48650 | .08102 | 4.5333 | -.00375 | -.10455 | .26225 | .44703 | .05670 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7036.3** | **93890.** | **5598.1** |
| Stddev | 4.6 | 394. | 61.7 |
| %RSD | .06498 | .41977 | 1.1028 |
| #1 | 7039.6 | 93611. | 5554.4 |
| #2 | 7033.1 | 94169. | 5641.7 |

Sample Name: 280-42255-A-1-D Acquired: 5/21/2013 21:00:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00211** | **43.914** | **.02106** | **.12326** | **4.4440** | **.00271** | **-.00429** | **66.743** | **.00196** |
| Stddev | .00019 | .059 | .00106 | .00072 | .0055 | .00001 | .00056 | .078 | .00002 |
| %RSD | 8.8219 | .13332 | 5.0351 | .58369 | .12256 | .26834 | 12.946 | .11694 | .96636 |
| #1 | .00198 | 43.955 | .02181 | .12275 | 4.4478 | .00272 | -.00390 | 66.798 | .00194 |
| #2 | .00224 | 43.872 | .02031 | .12377 | 4.4401 | .00271 | -.00468 | 66.688 | .00197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02275** | **.15778** | **.07045** | **64.166** | **12.363** | **.03940** | **26.061** | W **14.260** | **.02053** |
| Stddev | .00006 | .00025 | .00035 | .213 | .103 | .00012 | .064 | .010 | .00009 |
| %RSD | .24272 | .15987 | .49771 | .33229 | .83004 | .29397 | .24452 | .07073 | .42987 |
| #1 | .02271 | .15760 | .07069 | 64.316 | 12.435 | .03948 | 26.106 | 14.267 | .02059 |
| #2 | .02279 | .15795 | .07020 | 64.015 | 12.290 | .03932 | 26.016 | 14.253 | .02047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1184** | **.03619** | **2.5016** | **.70569** | **2.5193** | **.00151** | **-.00156** | **2.1250** | **.01027** |
| Stddev | .0309 | .00010 | .0160 | .00101 | .0009 | .00020 | .00105 | .0189 | .00098 |
| %RSD | 2.7617 | .27988 | .63805 | .14330 | .03612 | 13.300 | 67.129 | .89070 | 9.5901 |
| #1 | 1.1403 | .03626 | 2.4903 | .70497 | 2.5186 | .00165 | -.00082 | 2.1384 | .01096 |
| #2 | 1.0966 | .03612 | 2.5129 | .70640 | 2.5199 | .00137 | -.00230 | 2.1116 | .00957 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17277** | **.06023** | **2.0180** | W **-.01027** | F **-.10546** | **.18945** | **1.1542** | **.08303** |
| Stddev | .00110 | .00215 | .0004 | .00112 | .03853 | .00037 | .0008 | .00139 |
| %RSD | .63832 | 3.5760 | .01796 | 10.919 | 36.535 | .19663 | .06817 | 1.6757 |
| #1 | .17355 | .05871 | 2.0178 | -.00948 | -.07821 | .18971 | 1.1537 | .08401 |
| #2 | .17199 | .06175 | 2.0183 | -.01107 | -.13270 | .18919 | 1.1548 | .08205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | 50.000 | | | |
| Low Limit | | | | -.01000 | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7046.7** | **93950.** | **5622.5** |
| Stddev | 12.4 | 260. | 6.6 |
| %RSD | .17661 | .27671 | .11717 |
| #1 | 7055.5 | 93766. | 5617.8 |
| #2 | 7037.9 | 94133. | 5627.1 |

Sample Name: 280-42380-A-1-E Acquired: 5/21/2013 21:02:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06578** | **63.997** | **.06376** | **.14477** | **2.5434** | **.00230** | **.44587** | **400.78** | **.08557** |
| Stddev | .00071 | .371 | .00145 | .00068 | .0092 | .00001 | .00077 | 1.01 | .00053 |
| %RSD | 1.0784 | .57923 | 2.2716 | .46714 | .36018 | .23987 | .17319 | .25232 | .61496 |
| #1 | .06628 | 63.735 | .06478 | .14525 | 2.5369 | .00229 | .44532 | 401.50 | .08594 |
| #2 | .06528 | 64.259 | .06273 | .14429 | 2.5499 | .00230 | .44641 | 400.07 | .08520 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03966** | **.24780** | **5.1324** | **168.45** | **16.560** | **.04340** | **53.100** | **1.7046** | **.12329** |
| Stddev | .00001 | .00094 | .0018 | .05 | .125 | .00108 | .067 | .0003 | .00030 |
| %RSD | .01803 | .37949 | .03420 | .02793 | .75231 | 2.4944 | .12581 | .01760 | .24459 |
| #1 | .03966 | .24847 | 5.1336 | 168.48 | 16.472 | .04417 | 53.147 | 1.7048 | .12350 |
| #2 | .03967 | .24714 | 5.1311 | 168.42 | 16.648 | .04264 | 53.053 | 1.7044 | .12307 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.186** | **.23522** | F **149.65** | **.61641** | **156.37** | **.01435** | **.92585** | **2.2198** | **.39035** |
| Stddev | .057 | .00111 | .06 | .00577 | .31 | .00188 | .00008 | .0046 | .00117 |
| %RSD | .27076 | .47016 | .03765 | .93553 | .19937 | 13.074 | .00845 | .20845 | .29896 |
| #1 | 21.227 | .23600 | 149.61 | .62049 | 156.15 | .01302 | .92591 | 2.2165 | .39117 |
| #2 | 21.145 | .23444 | 149.69 | .61233 | 156.59 | .01568 | .92580 | 2.2231 | .38952 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | | | | |
| Low Limit | | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.8081** | **.04210** | **.43365** | **.00015** | F **-.32011** | **.13784** | **8.3772** | **.07027** |
| Stddev | .0184 | .00037 | .00058 | .00059 | .02656 | .00043 | .0154 | .00177 |
| %RSD | .65642 | .87407 | .13367 | 407.35 | 8.2981 | .31486 | .18427 | 2.5150 |
| #1 | 2.7951 | .04184 | .43324 | -.00027 | -.33890 | .13815 | 8.3881 | .07152 |
| #2 | 2.8212 | .04236 | .43406 | .00056 | -.30133 | .13753 | 8.3663 | .06902 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6689.9** | **87692.** | **5421.1** |
| Stddev | 39.1 | 89. | 29.6 |
| %RSD | .58464 | .10198 | .54555 |
| #1 | 6662.2 | 87629. | 5442.1 |
| #2 | 6717.5 | 87756. | 5400.2 |

Sample Name: 280-42398-A-1-A  Acquired: 5/21/2013 21:04:55  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.42043** | **.00217** | **.08475** | **.04020** | **-.00000** | **-.00293** | **14.940** | **.00050** |
| Stddev | .00014 | .00589 | .00367 | .00226 | .00028 | .00005 | .00105 | .165 | .00027 |
| %RSD | 46.660 | 1.4013 | 168.66 | 2.6648 | .70588 | 12635. | 36.020 | 1.1039 | 54.211 |
| #1 | -.00020 | .41627 | -.00042 | .08316 | .04040 | -.00004 | -.00367 | 15.056 | .00031 |
| #2 | -.00040 | .42460 | .00477 | .08635 | .04000 | .00003 | -.00218 | 14.823 | .00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.02651** | **.95106** | **1.0148** | **5.2746** | **.03615** | **3.2429** | **.01872** | **.01400** |
| Stddev | .00009 | .00013 | .00308 | .0021 | .7275 | .00180 | .0153 | .00007 | .00013 |
| %RSD | 24.160 | .48294 | .32435 | .20507 | 13.792 | 4.9650 | .47166 | .39771 | .90698 |
| #1 | .00031 | .02660 | .94887 | 1.0163 | 4.7603 | .03488 | 3.2537 | .01877 | .01391 |
| #2 | .00044 | .02642 | .95324 | 1.0133 | 5.7890 | .03742 | 3.2320 | .01866 | .01409 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5250.0** | **3.6678** | **11.747** | **.00533** | **106.62** | **.00605** | **.00193** | **43.273** | **.04233** |
| Stddev | 67.2 | .0195 | .033 | .00005 | .04 | .00083 | .00220 | .893 | .00035 |
| %RSD | 1.2792 | .53209 | .27697 | .94351 | .03378 | 13.694 | 113.69 | 2.0635 | .83713 |
| #1 | 5297.5 | 3.6540 | 11.724 | .00536 | 106.60 | .00664 | .00349 | 42.642 | .04208 |
| #2 | 5202.5 | 3.6816 | 11.770 | .00529 | 106.65 | .00547 | .00038 | 43.904 | .04258 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | | | | | | | |
| Low Limit | 10.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10126** | **.00040** | **.04884** | **.00046** | **.06727** | **.00305** | **.11033** | **.00538** |
| Stddev | .00027 | .00009 | .00024 | .00046 | .01131 | .00040 | .00020 | .00083 |
| %RSD | .26929 | 21.844 | .49943 | 101.16 | 16.811 | 13.276 | .18547 | 15.503 |
| #1 | .10145 | .00034 | .04866 | .00013 | .07526 | .00333 | .11047 | .00479 |
| #2 | .10107 | .00046 | .04901 | .00079 | .05927 | .00276 | .11018 | .00597 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5727.7** | **73434.** | **4826.6** |
| Stddev | 64.8 | 1629. | 38.2 |
| %RSD | 1.1317 | 2.2177 | .79244 |
| #1 | 5773.5 | 72282. | 4799.5 |
| #2 | 5681.8 | 74585. | 4853.6 |

Sample Name: 280-42337-A-1-B Acquired: 5/21/2013 21:08:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **61.103** | **.22730** | **.56589** | **1.2166** | **.02725** | **-.00921** | W **695.60** | **.00146** |
| Stddev | .00014 | .202 | .00301 | .00422 | .0010 | .00012 | .00012 | 3.49 | .00003 |
| %RSD | 19.557 | .33074 | 1.3243 | .74651 | .07898 | .44389 | 1.2842 | .50222 | 2.0381 |
| #1 | -.00063 | 61.246 | .22943 | .56888 | 1.2173 | .02717 | -.00912 | 698.07 | .00148 |
| #2 | -.00083 | 60.960 | .22517 | .56290 | 1.2160 | .02734 | -.00929 | 693.13 | .00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07010** | **.11864** | **.26441** | **33.010** | **21.078** | **.17201** | **16.920** | **.29799** | **.05784** |
| Stddev | .00021 | .00024 | .00105 | .068 | .051 | .00102 | .003 | .00045 | .00043 |
| %RSD | .30166 | .20305 | .39824 | .20537 | .23971 | .59396 | .01863 | .15210 | .74965 |
| #1 | .07025 | .11847 | .26516 | 33.057 | 21.042 | .17129 | 16.922 | .29767 | .05815 |
| #2 | .06995 | .11881 | .26367 | 32.962 | 21.114 | .17273 | 16.918 | .29831 | .05753 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **130.95** | **.13406** | **.88367** | **.09604** | **335.41** | **.00926** | **.17614** | **8.4794** | **.01109** |
| Stddev | .64 | .00022 | .00093 | .00067 | .05 | .00025 | .00418 | .7756 | .00029 |
| %RSD | .48623 | .16698 | .10505 | .69248 | .01406 | 2.6454 | 2.3740 | 9.1473 | 2.6544 |
| #1 | 131.40 | .13422 | .88302 | .09557 | 335.44 | .00944 | .17318 | 9.0279 | .01130 |
| #2 | 130.50 | .13390 | .88433 | .09651 | 335.38 | .00909 | .17909 | 7.9310 | .01088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5484** | **.02908** | **2.4000** | **.00336** | W **-.08667** | **.36531** | **.18116** | **.06227** |
| Stddev | .0021 | .00040 | .0012 | .00397 | .02362 | .00140 | .00141 | .00081 |
| %RSD | .13258 | 1.3891 | .04873 | 117.93 | 27.258 | .38322 | .77782 | 1.3052 |
| #1 | 1.5499 | .02879 | 2.4008 | .00056 | -.06996 | .36630 | .18216 | .06284 |
| #2 | 1.5470 | .02936 | 2.3992 | .00617 | -.10337 | .36432 | .18017 | .06169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5836.9** | **77747.** | **4515.6** |
| Stddev | 17.3 | 396. | 39.1 |
| %RSD | .29624 | .50966 | .86687 |
| #1 | 5849.1 | 78027. | 4487.9 |
| #2 | 5824.6 | 77467. | 4543.3 |

Sample Name: 280-41518-A-5-B Acquired: 5/21/2013 21:11:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **44.508** | **.04144** | **.04465** | **1.2869** | **.00373** | **-.00455** | **12.754** | **.00211** |
| Stddev | .00088 | .079 | .00014 | .00101 | .0032 | .00001 | .00251 | .012 | .00028 |
| %RSD | 449.45 | .17681 | .33559 | 2.2732 | .25034 | .28457 | 55.115 | .09030 | 13.418 |
| #1 | -.00082 | 44.563 | .04154 | .04537 | 1.2892 | .00372 | -.00277 | 12.762 | .00191 |
| #2 | .00043 | 44.452 | .04134 | .04393 | 1.2846 | .00374 | -.00632 | 12.746 | .00231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04739** | **.06090** | **.05188** | **46.225** | **7.1355** | **.02793** | **5.9336** | **7.9816** | **.00110** |
| Stddev | .00097 | .00105 | .00006 | .171 | .0815 | .00099 | .0140 | .0180 | .00033 |
| %RSD | 2.0492 | 1.7212 | .11518 | .36907 | 1.1416 | 3.5305 | .23634 | .22506 | 30.125 |
| #1 | .04670 | .06016 | .05183 | 46.346 | 7.1931 | .02863 | 5.9237 | 7.9689 | .00134 |
| #2 | .04808 | .06164 | .05192 | 46.104 | 7.0779 | .02724 | 5.9435 | 7.9943 | .00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1501** | **.06053** | **3.0678** | **6.4778** | **1.8813** | **.00904** | **.00101** | **3.8224** | **.00454** |
| Stddev | .0220 | .00111 | .0577 | .1184 | .0323 | .00027 | .00348 | .1389 | .00114 |
| %RSD | 1.9120 | 1.8312 | 1.8803 | 1.8282 | 1.7169 | 2.9455 | 343.05 | 3.6345 | 25.125 |
| #1 | 1.1657 | .05974 | 3.0270 | 6.3940 | 1.8585 | .00885 | .00348 | 3.9206 | .00373 |
| #2 | 1.1346 | .06131 | 3.1086 | 6.5615 | 1.9042 | .00923 | -.00145 | 3.7241 | .00535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05847** | **.02798** | **.55822** | **-.00810** | W **-.08937** | **.09517** | **.17030** | **.00679** |
| Stddev | .00046 | .00069 | .00205 | .00172 | .04637 | .00041 | .00042 | .00021 |
| %RSD | .78255 | 2.4762 | .36641 | 21.218 | 51.888 | .43463 | .24465 | 3.0341 |
| #1 | .05880 | .02749 | .55966 | -.00931 | -.12216 | .09546 | .17059 | .00694 |
| #2 | .05815 | .02847 | .55677 | -.00688 | -.05658 | .09488 | .17000 | .00665 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5922.2** | **79592.** | **4481.9** |
| Stddev | 90.7 | 141. | .6 |
| %RSD | 1.5319 | .17668 | .01311 |
| #1 | 5986.3 | 79691. | 4482.3 |
| #2 | 5858.0 | 79492. | 4481.5 |

Sample Name: 280-41518-A-7-B Acquired: 5/21/2013 21:14:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175116 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01632** | **16.711** | **2.8059** | **.03383** | **.61844** | **.00187** | **.08285** | **12.683** | **.00623** |
| Stddev | .00023 | .019 | .0024 | .00109 | .00074 | .00007 | .00213 | .010 | .00012 |
| %RSD | 1.4247 | .11194 | .08521 | 3.2182 | .12012 | 3.8750 | 2.5726 | .07762 | 1.9380 |
| #1 | .01616 | 16.698 | 2.8042 | .03460 | .61791 | .00182 | .08135 | 12.676 | .00632 |
| #2 | .01649 | 16.725 | 2.8075 | .03306 | .61896 | .00192 | .08436 | 12.690 | .00615 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02255** | **.06859** | **.20676** | **30.395** | **3.1006** | **.00782** | **3.5491** | **3.2224** | **.00101** |
| Stddev | .00048 | .00010 | .00486 | .026 | .0365 | .00262 | .0896 | .0766 | .00006 |
| %RSD | 2.1082 | .15084 | 2.3486 | .08667 | 1.1767 | 33.513 | 2.5233 | 2.3778 | 6.1526 |
| #1 | .02288 | .06866 | .21019 | 30.413 | 3.0748 | .00967 | 3.6124 | 3.2766 | .00106 |
| #2 | .02221 | .06852 | .20333 | 30.376 | 3.1264 | .00597 | 3.4858 | 3.1682 | .00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1655** | **.02483** | **2.3803** | F **311.01** | **1.6040** | W **10.521** | **-.00049** | **2.6963** | **.00159** |
| Stddev | .0323 | .00035 | .0042 | 5.32 | .0039 | .007 | .00356 | .0142 | .00044 |
| %RSD | 2.7700 | 1.4019 | .17823 | 1.7094 | .24340 | .06368 | 719.56 | .52644 | 27.675 |
| #1 | 1.1883 | .02507 | 2.3833 | 314.77 | 1.6067 | 10.516 | .00202 | 2.6862 | .00128 |
| #2 | 1.1427 | .02458 | 2.3773 | 307.25 | 1.6012 | 10.525 | -.00301 | 2.7063 | .00190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 200.00 | | 2.0000 | | | |
| Low Limit | | | | -.00900 | | -.01000 | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03501** | **.01670** | **.33988** | **-.00379** | **.00103** | **.06707** | **.12709** | **.00066** |
| Stddev | .00005 | .00126 | .00736 | .00072 | .06691 | .00193 | .00246 | .00235 |
| %RSD | .13771 | 7.5731 | 2.1646 | 18.987 | 6499.3 | 2.8791 | 1.9378 | 357.86 |
| #1 | .03505 | .01581 | .34508 | -.00328 | .04834 | .06844 | .12883 | .00232 |
| #2 | .03498 | .01760 | .33468 | -.00430 | -.04628 | .06571 | .12534 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5703.0** | **75731.** | **4184.0** |
| Stddev | 21.0 | 1280. | 21.2 |
| %RSD | .36756 | 1.6897 | .50641 |
| #1 | 5688.2 | 74826. | 4169.0 |
| #2 | 5717.8 | 76636. | 4199.0 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 21:16:30 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00156** | **49.241** | **-.00090** | **.01963** | **.00209** | **-.00009** | **.99055** | **.00528** | **-.00066** | **.00150** | **-.00017** | **.00220** |
| Stddev | .00016 | .043 | .00009 | .00050 | .00001 | .00000 | .00480 | .00141 | .00008 | .00017 | .00019 | .00033 |
| %RSD | 10.471 | .08803 | 10.265 | 2.5457 | .37833 | .69771 | .48486 | 26.704 | 12.220 | 11.558 | 111.53 | 15.059 |
| #1 | .00168 | 49.271 | -.00084 | .01928 | .00209 | -.00008 | .98716 | .00428 | -.00060 | .00162 | -.00004 | .00197 |
| #2 | .00145 | 49.210 | -.00097 | .01999 | .00210 | -.00009 | .99395 | .00628 | -.00072 | .00138 | -.00031 | .00243 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.298** | **.10331** | **-.00258** | **-.00413** | **-.00034** | **-.00154** | F **276.18** | **.00042** | **.00851** | **.01168** | **4.8738** | **.02736** |
| Stddev | .139 | .00140 | .00186 | .00113 | .00009 | .00005 | .20 | .00009 | .00103 | .00483 | .0040 | .00148 |
| %RSD | .29388 | 1.3547 | 72.198 | 27.386 | 25.232 | 3.0932 | .07297 | 21.141 | 12.143 | 41.343 | .08185 | 5.4259 |
| #1 | 47.397 | .10430 | -.00126 | -.00333 | -.00028 | -.00150 | 276.32 | .00036 | .00778 | .01509 | 4.8710 | .02631 |
| #2 | 47.200 | .10232 | -.00390 | -.00493 | -.00040 | -.00157 | 276.03 | .00049 | .00924 | .00826 | 4.8766 | .02841 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00389** | **.11054** | **-.00002** | **.00010** | **5.1063** | **.00154** | **-.00130** | **10.039** | **-.00050** | **.00425** | **-.03562** |
| Stddev | .00098 | .01246 | .00021 | .00001 | .0099 | .00002 | .00102 | .001 | .00046 | .00014 | .00369 |
| %RSD | 25.153 | 11.273 | 1112.2 | 9.5013 | .19355 | 1.3964 | 78.425 | .01429 | 93.733 | 3.3387 | 10.370 |
| #1 | .00459 | .11935 | -.00017 | .00009 | 5.0993 | .00153 | -.00058 | 10.041 | -.00017 | .00415 | -.03823 |
| #2 | .00320 | .10173 | .00013 | .00010 | 5.1132 | .00156 | -.00202 | 10.038 | -.00082 | .00435 | -.03301 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5416.3** | **71615.** | **3978.3** |
| Stddev | 10.1 | 25. | 16.4 |
| %RSD | .18687 | .03496 | .41151 |
| #1 | 5409.1 | 71598. | 3989.9 |
| #2 | 5423.4 | 71633. | 3966.7 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 21:18:53 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51564** | **.50756** | **.98060** | **.50203** | **.52026** | **.46268** | **-.00108** | **4.8624** | **.50585** | **.51427** | **.50175** | **.49592** |
| Stddev | .00802 | .00022 | .00203 | .00101 | .00246 | .00229 | .00050 | .0210 | .00005 | .00187 | .00054 | .00784 |
| %RSD | 1.5558 | .04318 | .20689 | .20181 | .47304 | .49477 | 46.863 | .43259 | .00903 | .36378 | .10821 | 1.5808 |
| #1 | .52131 | .50741 | .97917 | .50131 | .52200 | .46430 | -.00072 | 4.8773 | .50582 | .51294 | .50214 | .50147 |
| #2 | .50997 | .50772 | .98203 | .50274 | .51852 | .46107 | -.00143 | 4.8475 | .50589 | .51559 | .50137 | .49038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2911** | **54.611** | **1.0976** | **20.434** | **.51451** | **.50085** | F **5.7772** | **.51091** | **.97517** | **1.0237** | **.02470** | **.99864** |
| Stddev | .0206 | .227 | .0085 | .337 | .00873 | .00212 | .0636 | .00170 | .00468 | .0002 | .00134 | .00097 |
| %RSD | .89761 | .41638 | .77564 | 1.6491 | 1.6962 | .42418 | 1.1010 | .33351 | .47990 | .02242 | 5.4095 | .09687 |
| #1 | 2.3056 | 54.771 | 1.1036 | 20.673 | .52068 | .50235 | 5.8221 | .51211 | .97848 | 1.0235 | .02564 | .99796 |
| #2 | 2.2765 | 54.450 | 1.0916 | 20.196 | .50833 | .49935 | 5.7322 | .50970 | .97186 | 1.0239 | .02375 | .99933 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96059** | **4.8135** | **1.0060** | **.49396** | **.00175** | **.51424** | **1.0120** | **.02004** | **.50183** | **.52693** | **.48876** |
| Stddev | .00068 | .0047 | .0018 | .00358 | .00020 | .00899 | .0025 | .03429 | .00942 | .00664 | .00494 |
| %RSD | .07112 | .09747 | .17397 | .72392 | 11.610 | 1.7482 | .25044 | 171.11 | 1.8764 | 1.2609 | 1.0106 |
| #1 | .96107 | 4.8168 | 1.0072 | .49649 | .00190 | .52059 | 1.0138 | -.00421 | .50849 | .53163 | .49225 |
| #2 | .96010 | 4.8101 | 1.0047 | .49143 | .00161 | .50788 | 1.0102 | .04429 | .49518 | .52223 | .48527 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5484.1** | **72076.** | **4037.9** |
| Stddev | 4.0 | 811. | 47.2 |
| %RSD | .07221 | 1.1253 | 1.1693 |
| #1 | 5486.9 | 71503. | 4004.5 |
| #2 | 5481.3 | 72650. | 4071.3 |

Sample Name: CCB Acquired: 5/21/2013 21:21:08 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00076** | **.00023** | **.00167** | F **.01475** | W **.00109** | **.00001** | **-.00005** | **.00004** | **.00020** | **-.00014** | **-.00011** |
| Stddev | .00007 | .00017 | .00069 | .00070 | .00030 | .00005 | .00092 | .00042 | .00004 | .00005 | .00012 |
| %RSD | 9.5195 | 75.099 | 41.165 | 4.7191 | 27.867 | 427.75 | 1785.4 | 936.00 | 20.753 | 37.248 | 103.56 |
| #1 | -.00082 | .00011 | .00215 | .01524 | .00131 | -.00003 | -.00070 | .00034 | .00023 | -.00010 | -.00003 |
| #2 | -.00071 | .00035 | .00118 | .01426 | .00088 | .00005 | .00060 | -.00025 | .00017 | -.00018 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00058 | | | | | | |
| Low Limit | | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00070** | **.00282** | **.11408** | W **-.00266** | **.00313** | **.00013** | **.00037** | F **.37942** | **-.00039** | **.00321** | **.00172** |
| Stddev | .00033 | .00192 | .06469 | .00508 | .00212 | .00002 | .00004 | .00423 | .00007 | .00123 | .00105 |
| %RSD | 47.267 | 68.162 | 56.705 | 190.81 | 67.811 | 14.123 | 10.365 | 1.1153 | 17.033 | 38.203 | 60.815 |
| #1 | -.00047 | .00146 | .15982 | -.00626 | .00163 | .00011 | .00035 | .37642 | -.00043 | .00408 | .00098 |
| #2 | -.00094 | .00417 | .06834 | .00093 | .00463 | .00014 | .00040 | .38241 | -.00034 | .00235 | .00246 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02362** | W **.00392** | **-.00300** | **.03905** | **-.00015** | **.00010** | **-.00072** | **-.00009** | **-.00035** | F **.05592** | **-.00004** |
| Stddev | .00046 | .00127 | .00447 | .03404 | .00031 | .00025 | .00316 | .00056 | .00124 | .02931 | .00050 |
| %RSD | 1.9553 | 32.355 | 148.81 | 87.186 | 215.03 | 240.36 | 437.77 | 654.08 | 351.69 | 52.418 | 1210.1 |
| #1 | .02330 | .00302 | -.00616 | .01498 | -.00037 | .00028 | .00151 | -.00048 | .00053 | .03519 | -.00040 |
| #2 | .02395 | .00481 | .00016 | .06312 | .00008 | -.00007 | -.00296 | .00031 | -.00123 | .07664 | .00032 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .00314 | | | | | | | | .05000 | |
| Low Limit | | -.00314 | | | | | | | | -.05000 | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00314** | W **-.00473** |
| Stddev | .00003 | .00229 |
| %RSD | .99564 | 48.331 |
| #1 | .00312 | -.00635 |
| #2 | .00316 | -.00312 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5440.6** | **73364.** | **4006.0** |
| Stddev | 31.5 | 317. | 21.4 |
| %RSD | .57822 | .43221 | .53472 |
| #1 | 5418.3 | 73139. | 3990.8 |
| #2 | 5462.8 | 73588. | 4021.1 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 21:23:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00990** | **.10573** | **.01608** | **.11192** | W **.01207** | **.00088** | **.10424** | **.20335** | **.00558** | **.01075** | **.01023** |
| Stddev | .00021 | .00049 | .00258 | .00001 | .00004 | .00016 | .00014 | .00983 | .00008 | .00026 | .00017 |
| %RSD | 2.0734 | .46619 | 16.053 | .01013 | .35887 | 17.869 | .13771 | 4.8347 | 1.4249 | 2.4100 | 1.6143 |
| #1 | .00976 | .10538 | .01426 | .11193 | .01204 | .00077 | .10434 | .19640 | .00552 | .01057 | .01034 |
| #2 | .01005 | .10608 | .01791 | .11192 | .01210 | .00099 | .10414 | .21030 | .00564 | .01094 | .01011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | | | | | | |
| Range | | | | | 20.000% | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01518** | **.09320** | **3.5171** | **.00973** | **.21433** | **.01080** | **.02079** | F **1.4829** | **.04203** | **2.9624** | F **.01222** |
| Stddev | .00003 | .00151 | .1114 | .00480 | .00589 | .00001 | .00011 | .0182 | .00023 | .0152 | .00010 |
| %RSD | .19260 | 1.6234 | 3.1671 | 49.381 | 2.7464 | .06840 | .53835 | 1.2307 | .55665 | .51179 | .85086 |
| #1 | .01516 | .09213 | 3.4383 | .00633 | .21849 | .01080 | .02071 | 1.4958 | .04187 | 2.9517 | .01215 |
| #2 | .01520 | .09427 | 3.5958 | .01312 | .21016 | .01079 | .02087 | 1.4700 | .04220 | 2.9732 | .01230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | 1.0000 | | | .00900 |
| Range | | | | | | | | 30.000% | | | 30.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01960** | W **.01292** | **.01372** | **.53177** | **.10499** | **.01024** | **.01390** | **.01013** | **.01573** | F **.11114** | **.00981** |
| Stddev | .00111 | .00023 | .00009 | .00184 | .00095 | .00019 | .00106 | .00008 | .00019 | .00579 | .00006 |
| %RSD | 5.6531 | 1.7615 | .62239 | .34642 | .90788 | 1.8907 | 7.6407 | .83229 | 1.1952 | 5.2125 | .65293 |
| #1 | .01881 | .01308 | .01378 | .53308 | .10432 | .01037 | .01314 | .01019 | .01559 | .11523 | .00986 |
| #2 | .02038 | .01276 | .01366 | .53047 | .10566 | .01010 | .01465 | .01007 | .01586 | .10704 | .00977 |
| Check ? | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | .01000 | | | | | | | | .06000 | |
| Range | | 20.000% | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02505** | **.01391** |
| Stddev | .00013 | .00002 |
| %RSD | .53057 | .16157 |
| #1 | .02515 | .01392 |
| #2 | .02496 | .01389 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5444.7** | **72462.** | **4047.0** |
| Stddev | 16.5 | 275. | 34.5 |
| %RSD | .30215 | .37900 | .85222 |
| #1 | 5456.3 | 72657. | 4022.6 |
| #2 | 5433.1 | 72268. | 4071.4 |

Sample Name: MB 280-175095/1-A Acquired: 5/21/2013 21:25:59 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **.00393** | **-.00329** | F **.01195** | F **.00175** | **-.00001** | **-.00327** | **.01595** | **.00020** |
| Stddev | .00015 | .00018 | .00045 | .00041 | .00048 | .00011 | .00263 | .00057 | .00007 |
| %RSD | 28.482 | 4.5448 | 13.774 | 3.4612 | 27.468 | 1117.9 | 80.574 | 3.5657 | 37.391 |
| #1 | -.00043 | .00380 | -.00361 | .01225 | .00141 | -.00008 | -.00141 | .01555 | .00025 |
| #2 | -.00065 | .00406 | -.00297 | .01166 | .00209 | .00007 | -.00513 | .01635 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00343 | .00127 | | | | |
| Low Limit | | | | -.00343 | -.00127 | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **-.00035** | **-.00013** | **.00556** | **.10125** | **-.00152** | **.00111** | **.00004** | **.00014** |
| Stddev | .00009 | .00016 | .00021 | .00281 | .00887 | .00070 | .00148 | .00005 | .00008 |
| %RSD | 32.065 | 46.990 | 153.49 | 50.436 | 8.7617 | 46.106 | 133.68 | 133.92 | 55.810 |
| #1 | -.00021 | -.00047 | -.00028 | .00755 | .09497 | -.00202 | .00006 | .00007 | .00020 |
| #2 | -.00033 | -.00023 | .00001 | .00358 | .10752 | -.00102 | .00215 | .00000 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.35066** | **-.00050** | **.00472** | W **.00267** | **.01475** | **.00274** | **.00088** | W **.04255** | **-.00000** |
| Stddev | .02115 | .00013 | .00048 | .00083 | .00094 | .00140 | .00242 | .00684 | .00075 |
| %RSD | 6.0326 | 26.278 | 10.160 | 31.131 | 6.3598 | 50.909 | 273.86 | 16.068 | 23943. |
| #1 | .36562 | -.00041 | .00506 | .00208 | .01408 | .00176 | .00259 | .03771 | -.00053 |
| #2 | .33570 | -.00060 | .00438 | .00325 | .01541 | .00373 | -.00083 | .04738 | .00053 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Warn | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .20152 | | | .00261 | | | | .03470 | |
| Low Limit | -.20152 | | | -.00261 | | | | -.03470 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **-.00144** | **-.00007** | **.00034** | **-.00074** | **.00035** | W **.00459** | **-.00232** |
| Stddev | .00007 | .00027 | .00006 | .00032 | .02318 | .00030 | .00012 | .00001 |
| %RSD | 82.943 | 18.594 | 84.110 | 94.685 | 3138.4 | 85.526 | 2.6015 | .55540 |
| #1 | .00013 | -.00163 | -.00003 | .00057 | .01565 | .00056 | .00450 | -.00231 |
| #2 | .00003 | -.00125 | -.00011 | .00011 | -.01713 | .00014 | .00467 | -.00233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00453 | |
| Low Limit | | | | | | | -.00453 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5528.7** | **73654.** | **4025.8** |
| Stddev | 27.8 | 66. | 12.9 |
| %RSD | .50291 | .09012 | .32044 |
| #1 | 5509.1 | 73701. | 4016.6 |
| #2 | 5548.4 | 73607. | 4034.9 |

Sample Name: LCS 280-175095/2-A Acquired: 5/21/2013 21:28:27 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05511** | **1.9923** | **.99398** | **.99992** | **2.1412** | **.04805** | **2.0645** | **48.595** | **.10565** |
| Stddev | .00142 | .0003 | .00000 | .00007 | .0080 | .00018 | .0066 | .238 | .00021 |
| %RSD | 2.5781 | .01368 | .00029 | .00651 | .37473 | .37747 | .31773 | .48906 | .19796 |
| #1 | .05611 | 1.9921 | .99398 | .99988 | 2.1469 | .04792 | 2.0599 | 48.763 | .10551 |
| #2 | .05410 | 1.9924 | .99398 | .99997 | 2.1355 | .04818 | 2.0691 | 48.427 | .10580 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51283** | **.20493** | **.25357** | **.93261** | **55.771** | **1.1110** | **51.271** | **.51611** | **1.0235** |
| Stddev | .00001 | .00048 | .00057 | .00237 | .252 | .0035 | .045 | .00050 | .0004 |
| %RSD | .00212 | .23185 | .22417 | .25363 | .45105 | .31602 | .08795 | .09593 | .03944 |
| #1 | .51284 | .20459 | .25317 | .93094 | 55.949 | 1.1135 | 51.239 | .51576 | 1.0238 |
| #2 | .51282 | .20526 | .25397 | .93429 | 55.593 | 1.1086 | 51.303 | .51646 | 1.0233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **57.374** | **.50488** | **10.039** | **.51417** | **.00904** | **.50623** | **1.9624** | **9.8293** | **2.0278** |
| Stddev | .164 | .00053 | .000 | .00180 | .00210 | .00426 | .0029 | .0285 | .0078 |
| %RSD | .28559 | .10571 | .00272 | .34991 | 23.211 | .84205 | .14756 | .29029 | .38551 |
| #1 | 57.258 | .50526 | 10.039 | .51290 | .01052 | .50322 | 1.9604 | 9.8091 | 2.0223 |
| #2 | 57.490 | .50450 | 10.039 | .51544 | .00755 | .50925 | 1.9645 | 9.8494 | 2.0333 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 56.000 | | | | | | | | |
| Low Limit | 45.500 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0105** | **1.0357** | **1.0428** | **2.0283** | **2.1547** | **.51867** | **.52484** | **.49328** |
| Stddev | .0080 | .0023 | .0025 | .0133 | .0094 | .00026 | .00067 | .00342 |
| %RSD | .79037 | .22452 | .23608 | .65782 | .43505 | .05070 | .12772 | .69287 |
| #1 | 1.0162 | 1.0341 | 1.0411 | 2.0189 | 2.1480 | .51886 | .52437 | .49570 |
| #2 | 1.0049 | 1.0374 | 1.0445 | 2.0378 | 2.1613 | .51848 | .52532 | .49086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5395.2** | **71473.** | **4052.5** |
| Stddev | 12.6 | 42. | 31.8 |
| %RSD | .23275 | .05870 | .78404 |
| #1 | 5386.3 | 71502. | 4030.1 |
| #2 | 5404.1 | 71443. | 4075.0 |

Sample Name: 280-42405-A-1-A  Acquired: 5/21/2013 21:30:41  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01607** | **1.5758** | **.00050** | **.09697** | **.07150** | **-.00004** | **.00143** | **26.117** | **.00031** |
| Stddev | .00012 | .0007 | .00066 | .00109 | .00008 | .00004 | .00026 | .124 | .00035 |
| %RSD | .75791 | .04210 | 131.48 | 1.1245 | .11514 | 95.145 | 18.065 | .47460 | 112.58 |
| #1 | .01615 | 1.5754 | .00096 | .09774 | .07156 | -.00001 | .00125 | 26.204 | .00006 |
| #2 | .01598 | 1.5763 | .00004 | .09620 | .07145 | -.00007 | .00162 | 26.029 | .00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03665** | **.27594** | **6.0243** | **1.3173** | **1.2548** | **.00700** | **8.6750** | **.01853** | **.01985** |
| Stddev | .00030 | .00015 | .0266 | .0034 | .0146 | .00387 | .0366 | .00018 | .00002 |
| %RSD | .80641 | .05287 | .44204 | .25524 | 1.1657 | 55.238 | .42225 | .96596 | .12263 |
| #1 | .03686 | .27584 | 6.0054 | 1.3197 | 1.2651 | .00426 | 8.6491 | .01841 | .01983 |
| #2 | .03644 | .27605 | 6.0431 | 1.3149 | 1.2444 | .00973 | 8.7009 | .01866 | .01987 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.769** | **.51543** | **.06573** | **1.6771** | **18.148** | **.00046** | **-.00189** | **2.3988** | **.46113** |
| Stddev | .057 | .00022 | .00141 | .0026 | .009 | .00146 | .00338 | .0219 | .00329 |
| %RSD | .48079 | .04246 | 2.1393 | .15472 | .05023 | 319.78 | 178.80 | .91446 | .71242 |
| #1 | 11.729 | .51528 | .06673 | 1.6753 | 18.155 | -.00058 | .00050 | 2.4143 | .46346 |
| #2 | 11.809 | .51559 | .06474 | 1.6790 | 18.142 | .00149 | -.00428 | 2.3833 | .45881 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24087** | **.00074** | **.12377** | **.00071** | **.01899** | **.01745** | **.03379** | **-.00227** |
| Stddev | .00217 | .00042 | .00099 | .00002 | .01265 | .00026 | .00075 | .00070 |
| %RSD | .89909 | 56.861 | .79888 | 2.8718 | 66.617 | 1.4796 | 2.2336 | 30.778 |
| #1 | .24240 | .00104 | .12307 | .00070 | .02794 | .01763 | .03326 | -.00178 |
| #2 | .23934 | .00044 | .12447 | .00073 | .01005 | .01726 | .03432 | -.00277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5547.1** | **74289.** | **4104.0** |
| Stddev | 2.3 | 270. | 21.4 |
| %RSD | .04068 | .36297 | .52100 |
| #1 | 5545.5 | 74479. | 4088.8 |
| #2 | 5548.7 | 74098. | 4119.1 |

Sample Name: sd 280-42405-A-1-A@5 Acquired: 5/21/2013 21:33:02 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00281** | **.33523** | **.00131** | **.02646** | **.01582** | **-.00009** | **-.00161** | **5.4340** | **.00007** |
| Stddev | .00082 | .00057 | .00007 | .00013 | .00069 | .00010 | .00477 | .0033 | .00007 |
| %RSD | 29.128 | .16904 | 5.5732 | .50586 | 4.3508 | 114.60 | 296.87 | .06092 | 94.195 |
| #1 | .00223 | .33563 | .00136 | .02655 | .01533 | -.00002 | -.00498 | 5.4363 | .00002 |
| #2 | .00339 | .33483 | .00126 | .02637 | .01630 | -.00016 | .00177 | 5.4316 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00736** | **.05642** | **1.2071** | **.28597** | **.33526** | **-.00232** | **1.8091** | **.00407** | **.00398** |
| Stddev | .00009 | .00006 | .0033 | .00089 | .09428 | .00040 | .0035 | .00005 | .00003 |
| %RSD | 1.1674 | .11037 | .27143 | .31077 | 28.122 | 17.433 | .19175 | 1.2319 | .69492 |
| #1 | .00730 | .05638 | 1.2048 | .28534 | .40192 | -.00260 | 1.8115 | .00403 | .00396 |
| #2 | .00742 | .05647 | 1.2094 | .28660 | .26859 | -.00203 | 1.8066 | .00410 | .00400 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5940** | **.10590** | **.01566** | **.34929** | **3.7423** | **-.00056** | **-.00144** | **.49462** | **.09418** |
| Stddev | .0041 | .00021 | .00452 | .00249 | .0209 | .00316 | .00053 | .00002 | .00008 |
| %RSD | .15829 | .20268 | 28.893 | .71377 | .55831 | 570.07 | 36.734 | .00468 | .08666 |
| #1 | 2.5911 | .10575 | .01886 | .35106 | 3.7275 | -.00279 | -.00106 | .49460 | .09423 |
| #2 | 2.5969 | .10605 | .01246 | .34753 | 3.7570 | .00168 | -.00181 | .49463 | .09412 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04967** | **.00146** | **.02515** | **-.00073** | **.02505** | **.00388** | **.01280** | **-.00111** |
| Stddev | .00048 | .00010 | .00037 | .00062 | .00793 | .00010 | .00007 | .00257 |
| %RSD | .97168 | 7.1248 | 1.4577 | 84.444 | 31.666 | 2.4967 | .54263 | 230.59 |
| #1 | .05001 | .00153 | .02541 | -.00030 | .03066 | .00395 | .01275 | -.00293 |
| #2 | .04932 | .00138 | .02489 | -.00117 | .01944 | .00381 | .01285 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5617.9** | **75193.** | **4106.9** |
| Stddev | 10.0 | 330. | 41.9 |
| %RSD | .17727 | .43905 | 1.0210 |
| #1 | 5625.0 | 74959. | 4077.3 |
| #2 | 5610.9 | 75426. | 4136.6 |

Sample Name: 280-42405-A-1-B MS  Acquired: 5/21/2013 21:35:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07127** | W **3.6183** | **.97250** | **1.0830** | **2.2097** | **.04773** | **2.0581** | **74.166** | **.10534** |
| Stddev | .00081 | .0079 | .00467 | .0031 | .0030 | .00011 | .0065 | .041 | .00012 |
| %RSD | 1.1327 | .21755 | .48049 | .28287 | .13487 | .22503 | .31323 | .05588 | .10942 |
| #1 | .07184 | 3.6127 | .96920 | 1.0808 | 2.2076 | .04766 | 2.0535 | 74.195 | .10526 |
| #2 | .07070 | 3.6239 | .97581 | 1.0851 | 2.2118 | .04781 | 2.0627 | 74.136 | .10542 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 4.0000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54568** | **.59084** | **6.0914** | **2.6791** | **56.823** | **1.1216** | **59.484** | **.53817** | **1.0173** |
| Stddev | .00057 | .00001 | .0016 | .0005 | .234 | .0009 | .011 | .00090 | .0020 |
| %RSD | .10411 | .00191 | .02618 | .01760 | .41182 | .08052 | .01792 | .16668 | .19233 |
| #1 | .54608 | .59085 | 6.0925 | 2.6794 | 56.989 | 1.1209 | 59.492 | .53754 | 1.0186 |
| #2 | .54528 | .59083 | 6.0903 | 2.6788 | 56.658 | 1.1222 | 59.477 | .53881 | 1.0159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.604** | **1.1843** | **10.141** | **2.1101** | **18.410** | **.47991** | **1.9088** | **12.417** | **2.5799** |
| Stddev | .040 | .0003 | .017 | .0024 | .013 | .00338 | .0163 | .038 | .0043 |
| %RSD | .05773 | .02441 | .16427 | .11459 | .07179 | .70495 | .85142 | .30447 | .16592 |
| #1 | 68.576 | 1.1845 | 10.153 | 2.1118 | 18.401 | .48230 | 1.9203 | 12.444 | 2.5829 |
| #2 | 68.632 | 1.1841 | 10.129 | 2.1084 | 18.420 | .47751 | 1.8973 | 12.390 | 2.5769 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2513** | **1.0280** | **1.4607** | **1.8364** | **2.1566** | **.54624** | **.54565** | **.49234** |
| Stddev | .0036 | .0009 | .0040 | .0027 | .0618 | .00068 | .00163 | .00140 |
| %RSD | .28723 | .08591 | .27194 | .14618 | 2.8645 | .12375 | .29802 | .28517 |
| #1 | 1.2538 | 1.0286 | 1.4579 | 1.8383 | 2.1129 | .54672 | .54680 | .49135 |
| #2 | 1.2487 | 1.0274 | 1.4635 | 1.8345 | 2.2003 | .54576 | .54450 | .49334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5415.8** | **72427.** | **4099.3** |
| Stddev | 1.5 | 123. | 6.5 |
| %RSD | .02710 | .17031 | .15932 |
| #1 | 5414.8 | 72514. | 4094.7 |
| #2 | 5416.9 | 72340. | 4103.9 |

Sample Name: 280-42405-A-1-C MSD Acquired: 5/21/2013 21:37:39 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05941** | W **3.3870** | **.99184** | **1.0759** | **2.1940** | **.04735** | **2.0743** | **73.867** | **.10622** |
| Stddev | .00152 | .0007 | .00089 | .0006 | .0059 | .00024 | .0059 | .209 | .00031 |
| %RSD | 2.5666 | .02126 | .08992 | .05627 | .27090 | .50917 | .28626 | .28321 | .29404 |
| #1 | .05833 | 3.3875 | .99247 | 1.0763 | 2.1982 | .04752 | 2.0785 | 74.015 | .10644 |
| #2 | .06049 | 3.3865 | .99121 | 1.0754 | 2.1898 | .04718 | 2.0701 | 73.719 | .10600 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 4.0000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.54634** | **.32625** | **4.7819** | **1.7255** | **57.015** | **1.1199** | **59.612** | **.52539** | **1.0203** |
| Stddev | .00001 | .00033 | .0061 | .0008 | .183 | .0001 | .046 | .00067 | .0012 |
| %RSD | .00169 | .09967 | .12724 | .04811 | .32076 | .00772 | .07711 | .12705 | .11847 |
| #1 | .54635 | .32602 | 4.7776 | 1.7249 | 57.144 | 1.1200 | 59.579 | .52491 | 1.0212 |
| #2 | .54633 | .32648 | 4.7862 | 1.7260 | 56.886 | 1.1199 | 59.644 | .52586 | 1.0195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **68.184** | **.74766** | **10.194** | **2.1175** | **18.395** | **.49011** | **1.9429** | **11.928** | **2.3749** |
| Stddev | .687 | .00061 | .011 | .0053 | .032 | .00041 | .0037 | .005 | .0003 |
| %RSD | 1.0077 | .08144 | .11104 | .25277 | .17508 | .08403 | .19229 | .04599 | .01053 |
| #1 | 68.669 | .74810 | 10.202 | 2.1138 | 18.418 | .48982 | 1.9456 | 11.931 | 2.3747 |
| #2 | 67.698 | .74723 | 10.186 | 2.1213 | 18.372 | .49040 | 1.9403 | 11.924 | 2.3751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2457** | **1.0364** | **1.1586** | **1.9322** | **2.1302** | **.52974** | **.54456** | **.49266** |
| Stddev | .0060 | .0006 | .0014 | .0003 | .0365 | .00072 | .00006 | .00343 |
| %RSD | .47734 | .05629 | .12334 | .01578 | 1.7120 | .13526 | .01095 | .69672 |
| #1 | 1.2499 | 1.0368 | 1.1576 | 1.9320 | 2.1044 | .52923 | .54452 | .49509 |
| #2 | 1.2415 | 1.0360 | 1.1596 | 1.9324 | 2.1560 | .53024 | .54460 | .49023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5410.8** | **71989.** | **4090.4** |
| Stddev | 6.4 | 15. | 28.7 |
| %RSD | .11853 | .02084 | .70278 |
| #1 | 5415.4 | 72000. | 4070.0 |
| #2 | 5406.3 | 71979. | 4110.7 |

Sample Name: 280-42405-A-2-A Acquired: 5/21/2013 21:39:50 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.24835** | **.00037** | **.05106** | **.05076** | **.00005** | **-.00219** | **24.382** | **.00023** |
| Stddev | .00021 | .00240 | .00140 | .00064 | .00018 | .00010 | .00508 | .126 | .00005 |
| %RSD | 28.550 | .96770 | 383.47 | 1.2445 | .34795 | 201.59 | 231.87 | .51660 | 20.044 |
| #1 | .00057 | .24665 | .00136 | .05061 | .05064 | -.00002 | -.00579 | 24.293 | .00026 |
| #2 | .00086 | .25005 | -.00063 | .05151 | .05089 | .00012 | .00140 | 24.471 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **.00129** | **.89655** | **.05753** | **1.2803** | **.00399** | **8.3035** | **.00258** | **.00101** |
| Stddev | .00002 | .00004 | .00053 | .00380 | .0203 | .00001 | .0055 | .00001 | .00006 |
| %RSD | 2.2544 | 3.1754 | .05961 | 6.6010 | 1.5850 | .16106 | .06660 | .25900 | 6.0366 |
| #1 | .00070 | .00132 | .89617 | .05485 | 1.2947 | .00399 | 8.3074 | .00258 | .00097 |
| #2 | .00072 | .00126 | .89693 | .06022 | 1.2660 | .00400 | 8.2996 | .00257 | .00105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **16.257** | **.00556** | **.56640** | **.02406** | **17.503** | **.00137** | **-.00335** | **14.534** | **.01573** |
| Stddev | .087 | .00029 | .00800 | .00104 | .203 | .00126 | .00023 | .122 | .00113 |
| %RSD | .53397 | 5.2537 | 1.4116 | 4.3430 | 1.1578 | 91.800 | 6.9231 | .84097 | 7.2128 |
| #1 | 16.319 | .00577 | .56075 | .02332 | 17.360 | .00048 | -.00351 | 14.448 | .01493 |
| #2 | 16.196 | .00536 | .57206 | .02480 | 17.646 | .00226 | -.00319 | 14.621 | .01653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22283** | **.00079** | **.01163** | **.00052** | **.02381** | **.00113** | **.08112** | **.01240** |
| Stddev | .00121 | .00035 | .00030 | .00012 | .03802 | .00042 | .00044 | .00352 |
| %RSD | .54207 | 43.939 | 2.6140 | 22.550 | 159.70 | 37.450 | .53775 | 28.358 |
| #1 | .22197 | .00054 | .01184 | .00060 | -.00308 | .00083 | .08143 | .01488 |
| #2 | .22368 | .00103 | .01141 | .00043 | .05069 | .00143 | .08081 | .00991 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5536.2** | **73455.** | **4090.2** |
| Stddev | 34.4 | 494. | 53.7 |
| %RSD | .62099 | .67281 | 1.3132 |
| #1 | 5560.5 | 73106. | 4128.2 |
| #2 | 5511.9 | 73805. | 4052.2 |

Sample Name: 280-42405-A-3-A  Acquired: 5/21/2013 21:42:15  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **-.01729** | k **65.367** | k **1.1279** | **.74656** | **1.4397** | k **.00150** | kF **-.11502** | **29.601** | k **.00390** |
| Stddev | .00076 | .076 | .0007 | .00075 | .0006 | .00005 | .00315 | .013 | .00002 |
| %RSD | 4.3751 | .11606 | .05930 | .09998 | .04471 | 3.3172 | 2.7361 | .04383 | .53082 |
| #1 | k -.01783 | k 65.313 | k 1.1274 | .74709 | 1.4402 | k .00154 | k -.11279 | 29.592 | k .00388 |
| #2 | k -.01676 | k 65.420 | k 1.1283 | .74603 | 1.4393 | k .00147 | k -.11724 | 29.610 | k .00391 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | 100.00 | | |
| Low Limit | -.01000 | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00243** | k **.04402** | **7.0614** | **.37445** | **1.1553** | k **.01394** | k **8.7783** | **.01043** | **.00674** |
| Stddev | .00026 | .00040 | .0035 | .00005 | .0475 | .00014 | .0068 | .00008 | .00032 |
| %RSD | 10.597 | .90601 | .05015 | .01356 | 4.1138 | 1.0104 | .07798 | .73695 | 4.7382 |
| #1 | k .00261 | k .04430 | 7.0589 | .37449 | 1.1890 | k .01404 | k 8.7832 | .01048 | .00651 |
| #2 | k .00225 | k .04373 | 7.0639 | .37442 | 1.1217 | k .01384 | k 8.7735 | .01037 | .00696 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.678** | **.08947** | **.50630** | k **.50959** | **18.369** | kF **-.05334** | k **.00223** | k **9.0658** | k **.77275** |
| Stddev | .145 | .00033 | .00205 | .00032 | .029 | .00211 | .00231 | .0308 | .00343 |
| %RSD | 1.2436 | .37363 | .40518 | .06377 | .15892 | 3.9475 | 103.38 | .33976 | .44419 |
| #1 | 11.576 | .08971 | .50775 | k .50982 | 18.348 | k -.05185 | k .00060 | k 9.0876 | k .77517 |
| #2 | 11.781 | .08923 | .50485 | k .50936 | 18.389 | k -.05483 | k .00386 | k 9.0441 | k .77032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 50.000 | | | |
| Low Limit | | | | | | -.02000 | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33592** | k **.04319** | k **.26040** | kF **-.12259** | ^ ***** | k **.00690** | k **.72559** | k **-.00100** |
| Stddev | .00018 | .00417 | .00011 | .00205 | ----- | .00015 | .00158 | .00064 |
| %RSD | .05361 | 9.6506 | .04134 | 1.6719 | ----- | 2.1944 | .21730 | 64.599 |
| #1 | .33605 | k .04613 | k .26048 | k -.12114 | ^ ----- | k .00701 | k .72671 | k -.00054 |
| #2 | .33580 | k .04024 | k .26032 | k -.12404 | ^ ----- | k .00680 | k .72448 | k -.00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 20.000 | | | | |
| Low Limit | | | | -.02000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5783.3** | **76294.** | **4311.0** |
| Stddev | 2.3 | 501. | 3.9 |
| %RSD | .04006 | .65703 | .09146 |
| #1 | 5785.0 | 75940. | 4313.8 |
| #2 | 5781.7 | 76649. | 4308.2 |

Sample Name: 280-42408-A-1-A  Acquired: 5/21/2013 21:44:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175095 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00784** | **.01779** | **.00249** | **1.8166** | **.00210** | **.00004** | **.00043** | **.90044** | **.00020** |
| Stddev | .00103 | .00032 | .00044 | .0045 | .00028 | .00005 | .00010 | .00693 | .00017 |
| %RSD | 13.138 | 1.8002 | 17.527 | .24555 | 13.506 | 118.48 | 23.616 | .76999 | 81.986 |
| #1 | .00711 | .01802 | .00280 | 1.8135 | .00230 | .00008 | .00036 | .90534 | .00032 |
| #2 | .00857 | .01756 | .00218 | 1.8198 | .00190 | .00001 | .00050 | .89553 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00685** | **.02799** | **.01185** | **51.021** | **.02403** | **2.2332** | **.00034** | **.01448** |
| Stddev | .00040 | .00019 | .00021 | .00030 | .460 | .00152 | .0031 | .00003 | .00055 |
| %RSD | 91.207 | 2.7521 | .75598 | 2.5232 | .90073 | 6.3124 | .13856 | 7.6226 | 3.7880 |
| #1 | .00015 | .00698 | .02784 | .01206 | 50.696 | .02295 | 2.2354 | .00033 | .01487 |
| #2 | .00072 | .00672 | .02814 | .01164 | 51.346 | .02510 | 2.2310 | .00036 | .01409 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5140.0** | **.13917** | F **373.94** | **.00110** | **1059.8** | **.00820** | **-.00246** | **3.7816** | **.00473** |
| Stddev | 9.7 | .00015 | 1.64 | .00141 | 2.2 | .00141 | .00394 | .0373 | .00125 |
| %RSD | .18945 | .10774 | .43945 | 128.59 | .21222 | 17.165 | 160.06 | .98641 | 26.356 |
| #1 | 5146.9 | .13906 | 375.10 | .00210 | 1058.2 | .00920 | -.00525 | 3.8080 | .00384 |
| #2 | 5133.2 | .13927 | 372.78 | .00010 | 1061.4 | .00721 | .00032 | 3.7552 | .00561 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | 50.000 | | | | | | |
| Low Limit | 10.000 | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00555** | **-.00131** | **.00056** | **-.00047** | **.05216** | **.00131** | **.01316** | **.00205** |
| Stddev | .00009 | .00402 | .00038 | .00018 | .01500 | .00025 | .00012 | .00239 |
| %RSD | 1.6673 | 306.44 | 67.495 | 38.849 | 28.762 | 19.220 | .93299 | 116.86 |
| #1 | .00561 | -.00415 | .00082 | -.00060 | .06277 | .00113 | .01325 | .00374 |
| #2 | .00548 | .00153 | .00029 | -.00034 | .04155 | .00149 | .01307 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5471.6** | **73272.** | **4614.9** |
| Stddev | 116.2 | 545. | 154.2 |
| %RSD | 2.1231 | .74345 | 3.3416 |
| #1 | 5389.5 | 72887. | 4505.9 |
| #2 | 5553.8 | 73657. | 4724.0 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 21:48:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00180** | **47.950** | **.00073** | **.01053** | **.00092** | **-.00014** | **1.0108** | **.00463** | **-.00064** | **.00191** | **-.00008** | **.00321** | **46.041** |
| Stddev | .00077 | .451 | .00066 | .00000 | .00004 | .00007 | .0022 | .00250 | .00022 | .00007 | .00007 | .00015 | .051 |
| %RSD | 42.568 | .94043 | 90.755 | .00149 | 4.5327 | 47.842 | .21259 | 54.120 | 34.857 | 3.7610 | 95.172 | 4.7922 | .11163 |
| #1 | .00126 | 47.631 | .00026 | .01053 | .00095 | -.00019 | 1.0123 | .00286 | -.00048 | .00186 | -.00013 | .00310 | 46.005 |
| #2 | .00234 | 48.269 | .00119 | .01053 | .00089 | -.00009 | 1.0092 | .00640 | -.00079 | .00196 | -.00003 | .00332 | 46.077 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49749** | **-.00140** | **-.00279** | **-.00065** | **-.00164** | **274.49** | **.00099** | **.02799** | **.00097** | **5.1273** | **-.00056** | **.00350** | **-.00389** |
| Stddev | .02595 | .00116 | .00097 | .00002 | .00045 | 2.65 | .00055 | .00628 | .00058 | .0669 | .00279 | .00454 | .01856 |
| %RSD | 5.2162 | 82.524 | 34.883 | 3.0831 | 27.386 | .96433 | 54.908 | 22.424 | 59.954 | 1.3058 | 499.77 | 129.67 | 477.76 |
| #1 | .47914 | -.00059 | -.00210 | -.00066 | -.00132 | 272.62 | .00138 | .03242 | .00139 | 5.1746 | .00141 | .00671 | .00924 |
| #2 | .51584 | -.00222 | -.00348 | -.00064 | -.00196 | 276.36 | .00061 | .02355 | .00056 | 5.0799 | -.00253 | .00029 | -.01701 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00024** | **5.0462** | **.00139** | **-.00128** | **10.101** | **.00000** | **.00339** | **-.03026** |
| Stddev | .00047 | .00013 | .0108 | .00046 | .00101 | .007 | .00008 | .00004 | .00194 |
| %RSD | 65.739 | 52.519 | .21323 | 33.516 | 78.783 | .07088 | 2500.1 | 1.3085 | 6.4086 |
| #1 | .00038 | .00033 | 5.0538 | .00172 | -.00200 | 10.106 | -.00005 | .00336 | -.02888 |
| #2 | .00105 | .00015 | 5.0386 | .00106 | -.00057 | 10.096 | .00006 | .00342 | -.03163 |
| Check ? | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | |
| Range | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5726.9** | **80792.** | **4754.0** |
| Stddev | 101.3 | 37. | 54.0 |
| %RSD | 1.7696 | .04573 | 1.1354 |
| #1 | 5798.6 | 80766. | 4792.2 |
| #2 | 5655.2 | 80818. | 4715.9 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 21:50:46 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50646** | **.51943** | **.98573** | **.50115** | **.52131** | **.46489** | **.00014** | **4.8288** | **.50804** | **.51565** | **.50548** | **.49682** |
| Stddev | .00026 | .00443 | .00824 | .00344 | .00303 | .00109 | .00131 | .0117 | .00496 | .00311 | .00514 | .00039 |
| %RSD | .05148 | .85203 | .83563 | .68661 | .58175 | .23346 | 907.63 | .24198 | .97653 | .60278 | 1.0168 | .07939 |
| #1 | .50628 | .51630 | .97990 | .49871 | .51917 | .46412 | .00107 | 4.8206 | .50453 | .51345 | .50184 | .49654 |
| #2 | .50664 | .52256 | .99155 | .50358 | .52346 | .46566 | -.00078 | 4.8371 | .51155 | .51785 | .50911 | .49710 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2760** | **54.980** | F **1.1056** | **20.224** | **.50635** | **.50668** | F **6.4196** | **.51303** | **1.0000** | **1.0279** | **.10489** | **.99380** |
| Stddev | .0042 | .089 | .0057 | .037 | .00054 | .00418 | .0203 | .00527 | .0091 | .0133 | .00901 | .00847 |
| %RSD | .18511 | .16196 | .51654 | .18357 | .10644 | .82448 | .31670 | 1.0281 | .91291 | 1.2934 | 8.5934 | .85192 |
| #1 | 2.2730 | 54.917 | 1.1016 | 20.250 | .50673 | .50372 | 6.4340 | .50930 | .99359 | 1.0185 | .11126 | .98781 |
| #2 | 2.2789 | 55.043 | 1.1097 | 20.197 | .50597 | .50963 | 6.4052 | .51676 | 1.0065 | 1.0373 | .09852 | .99978 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | 1.0000 | | | | 5.0000 | | | | | |
| Range | | | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98306** | **4.7379** | **1.0149** | **.50034** | **.00279** | **.50513** | **1.0170** | **.01105** | **.49939** | **.51617** | **.48421** |
| Stddev | .01097 | .0097 | .0114 | .00027 | .00066 | .00161 | .0085 | .00696 | .00227 | .00012 | .00004 |
| %RSD | 1.1158 | .20435 | 1.1201 | .05314 | 23.514 | .31963 | .83215 | 62.929 | .45472 | .02259 | .00793 |
| #1 | .97531 | 4.7311 | 1.0069 | .50053 | .00232 | .50628 | 1.0110 | .00614 | .50100 | .51609 | .48419 |
| #2 | .99082 | 4.7448 | 1.0230 | .50015 | .00325 | .50399 | 1.0229 | .01597 | .49778 | .51626 | .48424 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5506.8** | **74381.** | **4088.7** |
| Stddev | 63.8 | 307. | 9.1 |
| %RSD | 1.1581 | .41319 | .22271 |
| #1 | 5551.9 | 74163. | 4095.2 |
| #2 | 5461.7 | 74598. | 4082.3 |

Sample Name: CCB Acquired: 5/21/2013 21:53:01 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00107** | **.00122** | **-.00095** | F **.00824** | W **.00106** | **-.00007** | **-.00049** | **-.00145** | **.00015** | **-.00013** | **-.00014** |
| Stddev | .00028 | .00029 | .00111 | .00009 | .00021 | .00011 | .00167 | .00121 | .00013 | .00003 | .00023 |
| %RSD | 25.733 | 23.452 | 117.03 | 1.1141 | 19.567 | 150.88 | 341.70 | 83.418 | 88.668 | 23.469 | 158.93 |
| #1 | -.00088 | .00102 | -.00016 | .00818 | .00121 | -.00015 | -.00167 | -.00059 | .00005 | -.00015 | -.00031 |
| #2 | -.00127 | .00143 | -.00173 | .00831 | .00091 | .00000 | .00069 | -.00230 | .00024 | -.00011 | .00002 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00058 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00058 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **-.00077** | W **.24174** | **-.00042** | **.00372** | **.00010** | **.00040** | F **.85091** | **-.00038** | **.00761** | **-.00002** |
| Stddev | .00030 | .00394 | .03579 | .00190 | .00447 | .00000 | .00018 | .01834 | .00016 | .00141 | .00021 |
| %RSD | 132.40 | 509.45 | 14.805 | 456.09 | 120.10 | .86092 | 44.576 | 2.1548 | 42.436 | 18.463 | 1309.2 |
| #1 | .00001 | -.00356 | .26704 | .00093 | .00689 | .00010 | .00052 | .86388 | -.00049 | .00861 | .00013 |
| #2 | .00045 | .00201 | .21643 | -.00176 | .00056 | .00009 | .00027 | .83795 | -.00027 | .00662 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .23700 | | | | | .10000 | | | |
| Low Limit | | | -.23700 | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07072** | **.00149** | **-.00266** | **.00680** | **.00033** | **-.00008** | **.00110** | **-.00011** | **-.00075** | **.00621** | **.00072** |
| Stddev | .00203 | .00133 | .00461 | .04522 | .00024 | .00011 | .00028 | .00025 | .00111 | .01583 | .00020 |
| %RSD | 2.8641 | 89.267 | 173.63 | 664.90 | 72.275 | 138.64 | 25.823 | 234.28 | 148.01 | 254.68 | 27.433 |
| #1 | .07215 | .00242 | .00060 | -.02517 | .00016 | -.00000 | .00130 | -.00028 | -.00154 | .01741 | .00058 |
| #2 | .06929 | .00055 | -.00592 | .03878 | .00050 | -.00015 | .00090 | .00007 | .00004 | -.00498 | .00086 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00314** | F **-.00593** |
| Stddev | .00015 | .00100 |
| %RSD | 4.6128 | 16.813 |
| #1 | .00325 | -.00663 |
| #2 | .00304 | -.00522 |
| Check ? | Chk Pass | Chk Fail |
| High Limit | | .00476 |
| Low Limit | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5566.9** | **74065.** | **4021.6** |
| Stddev | 6.6 | 115. | 16.4 |
| %RSD | .11895 | .15519 | .40704 |
| #1 | 5562.2 | 73984. | 4010.1 |
| #2 | 5571.6 | 74146. | 4033.2 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 21:55:29 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00990** | **.10837** | **.01546** | **.10494** | W **.01214** | **.00098** | **.10937** | **.21001** | **.00544** | **.01132** | **.01043** |
| Stddev | .00092 | .00019 | .00088 | .00004 | .00005 | .00000 | .00197 | .00407 | .00022 | .00025 | .00007 |
| %RSD | 9.2463 | .17660 | 5.7173 | .04277 | .40476 | .04545 | 1.8007 | 1.9395 | 4.0265 | 2.1738 | .69207 |
| #1 | .00926 | .10823 | .01609 | .10491 | .01210 | .00098 | .10798 | .21289 | .00559 | .01149 | .01048 |
| #2 | .01055 | .10851 | .01484 | .10498 | .01217 | .00098 | .11077 | .20713 | .00528 | .01115 | .01038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | | | | | | |
| Range | | | | | 20.000% | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01547** | **.09494** | W **3.7425** | **.00817** | **.21803** | **.01091** | **.02054** | F **1.8307** | **.04291** | **2.9455** | **.00951** |
| Stddev | .00017 | .00072 | .0415 | .00080 | .00027 | .00004 | .00022 | .0025 | .00005 | .0072 | .00282 |
| %RSD | 1.0984 | .76263 | 1.1081 | 9.7803 | .12538 | .36728 | 1.0833 | .13749 | .12699 | .24573 | 29.644 |
| #1 | .01535 | .09443 | 3.7132 | .00874 | .21784 | .01093 | .02070 | 1.8325 | .04295 | 2.9507 | .00752 |
| #2 | .01559 | .09545 | 3.7718 | .00761 | .21823 | .01088 | .02039 | 1.8289 | .04287 | 2.9404 | .01151 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | 3.0000 | | | | | 1.0000 | | | |
| Range | | | 20.000% | | | | | 30.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05401** | **.01019** | **.01239** | **.47346** | **.10355** | **.01063** | **.01700** | **.01030** | **.01580** | F **.09406** | **.01093** |
| Stddev | .00607 | .00302 | .00067 | .00499 | .00041 | .00001 | .00081 | .00011 | .00050 | .00613 | .00021 |
| %RSD | 11.245 | 29.682 | 5.3904 | 1.0540 | .39661 | .05850 | 4.7415 | 1.1068 | 3.1897 | 6.5154 | 1.8929 |
| #1 | .05831 | .01232 | .01286 | .47698 | .10326 | .01063 | .01757 | .01038 | .01616 | .09839 | .01108 |
| #2 | .04972 | .00805 | .01192 | .46993 | .10384 | .01062 | .01643 | .01022 | .01545 | .08972 | .01079 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02455** | **.01258** |
| Stddev | .00033 | .00319 |
| %RSD | 1.3379 | 25.327 |
| #1 | .02432 | .01483 |
| #2 | .02478 | .01032 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5565.8** | **74296.** | **4124.7** |
| Stddev | 8.8 | 34. | 37.1 |
| %RSD | .15775 | .04514 | .90003 |
| #1 | 5559.6 | 74319. | 4098.4 |
| #2 | 5572.1 | 74272. | 4150.9 |

Sample Name: LB 280-174707/1-C Acquired: 5/21/2013 21:57:54 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175097 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.00221** | **.00053** | F **.02584** | **.00265** | **.00004** | **-.00018** | F **.30144** | **.00018** |
| Stddev | .00004 | .00020 | .00081 | .00018 | .00020 | .00002 | .00016 | .00781 | .00003 |
| %RSD | 13.864 | 8.8340 | 153.88 | .67898 | 7.5412 | 53.037 | 89.882 | 2.5914 | 16.320 |
| #1 | -.00034 | .00235 | -.00005 | .02572 | .00279 | .00005 | -.00007 | .29592 | .00016 |
| #2 | -.00028 | .00207 | .00111 | .02597 | .00250 | .00002 | -.00030 | .30697 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .01000 | | | | .20000 | |
| Low Limit | | | | -.01000 | | | | -.20000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00011** | **.00187** | **.01056** | **.28903** | **-.00347** | W **.05345** | **.00058** | **.00003** |
| Stddev | .00023 | .00017 | .00057 | .00064 | .07392 | .00193 | .00381 | .00002 | .00002 |
| %RSD | 1297.2 | 163.02 | 30.554 | 6.0296 | 25.575 | 55.468 | 7.1313 | 4.1433 | 68.695 |
| #1 | -.00015 | .00023 | .00146 | .01101 | .34130 | -.00484 | .05076 | .00060 | .00005 |
| #2 | .00018 | -.00002 | .00227 | .01011 | .23676 | -.00211 | .05615 | .00056 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | |
| Low Limit | | | | | | | -.05000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **306.44** | **-.00022** | **.00211** | **.00034** | **.04639** | **.00098** | **.00119** | **.03102** | **.00012** |
| Stddev | .16 | .00010 | .00091 | .00012 | .00125 | .00098 | .00340 | .03501 | .00066 |
| %RSD | .05170 | 44.161 | 42.969 | 34.668 | 2.7013 | 99.911 | 285.51 | 112.86 | 529.76 |
| #1 | 306.33 | -.00028 | .00275 | .00042 | .04728 | .00029 | .00360 | .00627 | .00059 |
| #2 | 306.55 | -.00015 | .00147 | .00026 | .04551 | .00167 | -.00121 | .05578 | -.00034 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **-.00099** | **-.00030** | **-.00004** | **.03729** | **.00052** | F **.01865** | **-.00261** |
| Stddev | .00014 | .00092 | .00016 | .00292 | .02778 | .00009 | .00050 | .00166 |
| %RSD | 31.934 | 93.103 | 53.613 | 7650.5 | 74.502 | 16.658 | 2.6799 | 63.595 |
| #1 | .00034 | -.00034 | -.00018 | -.00210 | .05693 | .00059 | .01900 | -.00143 |
| #2 | .00054 | -.00165 | -.00041 | .00203 | .01764 | .00046 | .01830 | -.00378 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | .01000 | |
| Low Limit | | | | | | | -.01000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5602.5** | **74891.** | **4102.2** |
| Stddev | 60.7 | 1638. | 27.5 |
| %RSD | 1.0843 | 2.1878 | .67104 |
| #1 | 5559.5 | 73733. | 4082.7 |
| #2 | 5645.4 | 76050. | 4121.6 |

Sample Name: LCS 280-174707/2-C Acquired: 5/21/2013 22:00:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175097 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21647** | **.40289** | **.80597** | **.22115** | **2.5474** | **.00944** | **.41329** | **10.031** | **.23028** |
| Stddev | .00044 | .00125 | .00106 | .00087 | .0134 | .00011 | .00009 | .070 | .00058 |
| %RSD | .20363 | .30915 | .13150 | .39468 | .52528 | 1.1868 | .02205 | .69600 | .24991 |
| #1 | .21616 | .40200 | .80672 | .22054 | 2.5380 | .00936 | .41335 | 9.9819 | .22987 |
| #2 | .21678 | .40377 | .80522 | .22177 | 2.5569 | .00951 | .41322 | 10.081 | .23069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10279** | **1.0549** | **.45856** | **.20625** | **11.616** | **.22301** | **9.9152** | **.10163** | **.20599** |
| Stddev | .00050 | .0020 | .00221 | .00045 | .153 | .00135 | .0549 | .00082 | .00055 |
| %RSD | .49125 | .18741 | .48092 | .22055 | 1.3154 | .60653 | .55405 | .80906 | .26792 |
| #1 | .10244 | 1.0535 | .45700 | .20593 | 11.508 | .22396 | 9.8763 | .10105 | .20560 |
| #2 | .10315 | 1.0563 | .46012 | .20657 | 11.724 | .22205 | 9.9540 | .10221 | .20638 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **324.52** | **.10113** | **2.0500** | **1.1234** | **.03622** | **.10146** | **.60013** | F **1.9584** | **.40456** |
| Stddev | 1.84 | .00083 | .0129 | .0019 | .00367 | .00038 | .00559 | .0290 | .00010 |
| %RSD | .56762 | .81954 | .62957 | .16825 | 10.120 | .37440 | .93223 | 1.4824 | .02471 |
| #1 | 323.22 | .10055 | 2.0409 | 1.1220 | .03881 | .10173 | .59617 | 1.9789 | .40463 |
| #2 | 325.83 | .10172 | 2.0591 | 1.1247 | .03362 | .10120 | .60408 | 1.9379 | .40449 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 12.000 | | | | | | | .48000 | |
| Low Limit | 8.0000 | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20344** | **.20156** | **.20631** | **.39455** | **.45342** | **.10336** | **.54421** | **.09514** |
| Stddev | .00165 | .00312 | .00001 | .00191 | .00641 | .00002 | .00519 | .00229 |
| %RSD | .81097 | 1.5464 | .00546 | .48390 | 1.4147 | .01765 | .95310 | 2.4066 |
| #1 | .20227 | .19936 | .20630 | .39320 | .45796 | .10337 | .54054 | .09676 |
| #2 | .20461 | .20377 | .20632 | .39590 | .44889 | .10335 | .54788 | .09352 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5491.9** | **73355.** | **4089.9** |
| Stddev | 35.9 | 96. | 23.0 |
| %RSD | .65395 | .13137 | .56142 |
| #1 | 5517.3 | 73423. | 4073.7 |
| #2 | 5466.5 | 73287. | 4106.1 |

Sample Name: LCSD 280-174707/3-C Acquired: 5/21/2013 22:02:41 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175097 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22872** | **.42526** | **.84607** | **.23335** | **2.6794** | **.00979** | **.43403** | **10.574** | **.24254** |
| Stddev | .00008 | .00147 | .00529 | .00004 | .0057 | .00007 | .00177 | .021 | .00041 |
| %RSD | .03341 | .34499 | .62490 | .01900 | .21424 | .72623 | .40857 | .19830 | .16952 |
| #1 | .22867 | .42423 | .84981 | .23332 | 2.6754 | .00974 | .43278 | 10.559 | .24225 |
| #2 | .22877 | .42630 | .84233 | .23338 | 2.6835 | .00984 | .43529 | 10.589 | .24283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10848** | **1.1139** | **.48457** | **.19615** | F **12.296** | **.23443** | **10.449** | **.10735** | **.21745** |
| Stddev | .00031 | .0011 | .00080 | .00264 | .056 | .00064 | .001 | .00022 | .00091 |
| %RSD | .28605 | .09751 | .16444 | 1.3444 | .45531 | .27177 | .00710 | .20150 | .42012 |
| #1 | .10826 | 1.1131 | .48400 | .19428 | 12.256 | .23488 | 10.448 | .10720 | .21680 |
| #2 | .10870 | 1.1146 | .48513 | .19801 | 12.335 | .23398 | 10.449 | .10750 | .21809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 12.000 | | | | |
| Low Limit | | | | | 8.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **340.89** | **.10657** | **2.1727** | **1.1820** | **.03142** | **.10902** | **.64035** | F **2.0523** | **.42702** |
| Stddev | 1.19 | .00028 | .0042 | .0014 | .00059 | .00070 | .00029 | .0307 | .00088 |
| %RSD | .35019 | .26722 | .19079 | .11874 | 1.8757 | .64109 | .04567 | 1.4964 | .20561 |
| #1 | 340.04 | .10678 | 2.1698 | 1.1830 | .03183 | .10853 | .64055 | 2.0306 | .42640 |
| #2 | 341.73 | .10637 | 2.1756 | 1.1810 | .03100 | .10952 | .64014 | 2.0740 | .42764 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 12.000 | | | | | | | .48000 | |
| Low Limit | 8.0000 | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21459** | **.21424** | **.21793** | **.41640** | **.45263** | **.10949** | **.57703** | **.10111** |
| Stddev | .00052 | .00086 | .00009 | .00036 | .03062 | .00049 | .00046 | .00023 |
| %RSD | .24376 | .40037 | .04293 | .08595 | 6.7652 | .44648 | .08009 | .22993 |
| #1 | .21496 | .21485 | .21787 | .41615 | .43097 | .10914 | .57670 | .10128 |
| #2 | .21422 | .21363 | .21800 | .41666 | .47428 | .10983 | .57736 | .10095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5447.3** | **72721.** | **4122.4** |
| Stddev | 4.6 | 422. | 18.1 |
| %RSD | .08359 | .58068 | .43784 |
| #1 | 5444.1 | 72422. | 4135.2 |
| #2 | 5450.5 | 73019. | 4109.6 |

Sample Name: Ca 1000 Acquired: 5/21/2013 22:05:00 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00147** | **.00441** | **-.00599** | **.00778** | **.00198** | **-.00041** | **-.00536** | W **956.94** | **-.00054** |
| Stddev | .00022 | .00066 | .00065 | .00001 | .00041 | .00008 | .00115 | 11.43 | .00015 |
| %RSD | 14.988 | 14.995 | 10.825 | .09561 | 20.537 | 18.863 | 21.432 | 1.1947 | 28.379 |
| #1 | -.00163 | .00394 | -.00645 | .00777 | .00226 | -.00036 | -.00455 | 948.86 | -.00043 |
| #2 | -.00132 | .00488 | -.00553 | .00778 | .00169 | -.00047 | -.00618 | 965.02 | -.00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00082** | **.00055** | **.01234** | **.40945** | **.00206** | **.02893** | **.00020** | **-.00003** |
| Stddev | .00024 | .00002 | .00052 | .00048 | .01986 | .00197 | .00010 | .00006 | .00003 |
| %RSD | 56.214 | 2.3751 | 93.213 | 3.8762 | 4.8507 | 95.897 | .35996 | 28.617 | 87.577 |
| #1 | .00060 | .00081 | .00019 | .01268 | .39541 | .00345 | .02885 | .00024 | -.00005 |
| #2 | .00026 | .00083 | .00092 | .01201 | .42350 | .00066 | .02900 | .00016 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0178** | **-.00011** | **-.00062** | **.00135** | **.04008** | **-.00047** | **.00162** | **-.00481** | **-.00096** |
| Stddev | .0205 | .00012 | .00053 | .00007 | .00003 | .00101 | .00227 | .00666 | .00060 |
| %RSD | 2.0170 | 107.47 | 86.402 | 5.1045 | .06737 | 216.06 | 139.89 | 138.55 | 62.994 |
| #1 | 1.0324 | -.00019 | -.00024 | .00131 | .04006 | -.00118 | .00322 | -.00010 | -.00138 |
| #2 | 1.0033 | -.00003 | -.00100 | .00140 | .04010 | .00025 | .00002 | -.00951 | -.00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05848** | **.00168** | **.00560** | **.00050** | W **-.05101** | **.00032** | **.00333** | **-.00346** |
| Stddev | .00016 | .00094 | .00013 | .00137 | .00374 | .00020 | .00034 | .00125 |
| %RSD | .27456 | 56.264 | 2.2778 | 274.27 | 7.3236 | 62.341 | 10.170 | 36.133 |
| #1 | .05836 | .00234 | .00551 | -.00047 | -.04837 | .00018 | .00357 | -.00257 |
| #2 | .05859 | .00101 | .00569 | .00147 | -.05365 | .00046 | .00309 | -.00434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5232.4** | **70616.** | **3977.1** |
| Stddev | 1.4 | 108. | 23.2 |
| %RSD | .02750 | .15344 | .58350 |
| #1 | 5233.5 | 70539. | 3993.5 |
| #2 | 5231.4 | 70693. | 3960.7 |

Sample Name: Mn 20 Acquired: 5/21/2013 22:08:06 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00226** | **.00488** | **.00121** | **.00670** | **.00142** | **-.00011** | **.00265** | **.01008** | **.00013** |
| Stddev | .00035 | .00033 | .00036 | .00030 | .00046 | .00009 | .00091 | .00013 | .00012 |
| %RSD | 15.364 | 6.7426 | 29.957 | 4.5231 | 32.361 | 85.969 | 34.289 | 1.2443 | 89.919 |
| #1 | .00251 | .00511 | .00146 | .00691 | .00174 | -.00004 | .00201 | .01017 | .00022 |
| #2 | .00202 | .00465 | .00095 | .00648 | .00109 | -.00018 | .00329 | .00999 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.00005** | **-.00022** | **-.00256** | **.20421** | **-.00322** | **-.02999** | W **19.443** | **-.00116** |
| Stddev | .00031 | .00010 | .00038 | .00211 | .03680 | .00110 | .00155 | .025 | .00023 |
| %RSD | 376.36 | 199.37 | 178.44 | 82.364 | 18.019 | 34.217 | 5.1632 | .12947 | 19.748 |
| #1 | .00014 | .00013 | -.00049 | -.00405 | .17819 | -.00400 | -.02889 | 19.426 | -.00100 |
| #2 | -.00030 | -.00002 | .00006 | -.00107 | .23023 | -.00244 | -.03108 | 19.461 | -.00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 10.000 | |
| Low Limit | | | | | | | | -.01000 | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.59846** | **-.00021** | **.00020** | **.00310** | **-.00589** | **.02476** | **.00037** | **.03578** | **-.00029** |
| Stddev | .00335 | .00000 | .00040 | .00009 | .00517 | .00246 | .00514 | .00527 | .00082 |
| %RSD | .55992 | .69931 | 205.68 | 3.0282 | 87.686 | 9.9314 | 1402.9 | 14.733 | 281.00 |
| #1 | .59609 | -.00021 | -.00009 | .00316 | -.00954 | .02650 | -.00327 | .03205 | -.00087 |
| #2 | .60083 | -.00021 | .00048 | .00303 | -.00224 | .02302 | .00400 | .03951 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **-.00192** | **-.00016** | W **-.01693** | **.01354** | **-.00505** | **.00284** | **-.00420** |
| Stddev | .00005 | .00155 | .00018 | .00063 | .03139 | .00047 | .00008 | .00027 |
| %RSD | 35.236 | 81.122 | 108.79 | 3.7174 | 231.73 | 9.3456 | 2.9369 | 6.5072 |
| #1 | -.00010 | -.00301 | -.00004 | -.01648 | .03574 | -.00538 | .00278 | -.00400 |
| #2 | -.00017 | -.00082 | -.00029 | -.01737 | -.00865 | -.00472 | .00289 | -.00439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 5.0000 | | | | |
| Low Limit | | | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5654.6** | **75355.** | **4146.5** |
| Stddev | 15.8 | 13. | 20.0 |
| %RSD | .28023 | .01742 | .48228 |
| #1 | 5643.4 | 75346. | 4160.7 |
| #2 | 5665.9 | 75365. | 4132.4 |

Sample Name: 280-42205-A-1-C Acquired: 5/21/2013 22:10:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175097 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00035** | **.71603** | **.01449** | **1.5872** | **.02965** | **-.00014** | **.00419** | **8.1896** | **.18259** |
| Stddev | .00087 | .00082 | .00206 | .0060 | .00023 | .00015 | .00312 | .0771 | .00104 |
| %RSD | 252.90 | .11517 | 14.207 | .37659 | .77690 | 106.93 | 74.584 | .94095 | .56704 |
| #1 | -.00096 | .71661 | .01594 | 1.5914 | .02948 | -.00024 | .00639 | 8.2441 | .18333 |
| #2 | .00027 | .71544 | .01303 | 1.5830 | .02981 | -.00003 | .00198 | 8.1351 | .18186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02802** | **.03880** | **1.5341** | **21.015** | F **651.67** | **1.0115** | **1.9085** | **.46632** | **.95747** |
| Stddev | .00003 | .00044 | .0066 | .223 | 8.14 | .0082 | .0066 | .00107 | .00334 |
| %RSD | .11552 | 1.1465 | .43275 | 1.0589 | 1.2498 | .80806 | .34410 | .22854 | .34886 |
| #1 | .02799 | .03912 | 1.5294 | 21.172 | 657.43 | 1.0173 | 1.9039 | .46556 | .95984 |
| #2 | .02804 | .03849 | 1.5388 | 20.857 | 645.92 | 1.0057 | 1.9132 | .46707 | .95511 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **511.69** | **.25120** | F **177.36** | **2.1398** | **17.359** | **.14823** | **.00983** | **3.2333** | **.03137** |
| Stddev | 6.32 | .00126 | .60 | .0221 | .115 | .00086 | .00211 | .0101 | .00077 |
| %RSD | 1.2343 | .50177 | .33918 | 1.0306 | .66470 | .57762 | 21.467 | .31257 | 2.4454 |
| #1 | 516.16 | .25209 | 177.78 | 2.1553 | 17.440 | .14884 | .01132 | 3.2405 | .03191 |
| #2 | 507.22 | .25031 | 176.93 | 2.1242 | 17.277 | .14763 | .00834 | 3.2262 | .03082 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 500.00 | | 50.000 | | | | | | |
| Low Limit | 10.000 | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02476** | **.00181** | **.01733** | **-.00187** | **.03958** | **.01596** | W **16.883** | **.00804** |
| Stddev | .00003 | .00123 | .00028 | .00087 | .02363 | .00028 | .037 | .00235 |
| %RSD | .11201 | 67.900 | 1.6184 | 46.438 | 59.704 | 1.7501 | .21779 | 29.243 |
| #1 | .02474 | .00268 | .01713 | -.00126 | .02287 | .01576 | 16.857 | .00970 |
| #2 | .02478 | .00094 | .01753 | -.00249 | .05629 | .01616 | 16.909 | .00638 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5406.7** | **70965.** | **4051.2** |
| Stddev | 40.0 | 231. | 62.3 |
| %RSD | .74006 | .32592 | 1.5367 |
| #1 | 5378.4 | 70801. | 4007.2 |
| #2 | 5435.0 | 71128. | 4095.2 |

Sample Name: sd 280-42205-A-1-C@5 Acquired: 5/21/2013 22:13:38 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175097 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00116** | **.14957** | **.00348** | **.34012** | **.00660** | **-.00005** | **.00247** | **1.6468** | **.03740** |
| Stddev | .00043 | .00101 | .00197 | .00115 | .00040 | .00003 | .00321 | .0127 | .00054 |
| %RSD | 36.979 | .67575 | 56.477 | .33781 | 6.0009 | 50.611 | 129.78 | .76860 | 1.4467 |
| #1 | -.00146 | .15028 | .00487 | .34093 | .00688 | -.00003 | .00474 | 1.6558 | .03778 |
| #2 | -.00085 | .14885 | .00209 | .33931 | .00632 | -.00007 | .00020 | 1.6379 | .03701 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00567** | **.00767** | **.31765** | **4.2453** | W **130.44** | **.20314** | **.39864** | **.09335** | **.19170** |
| Stddev | .00000 | .00007 | .00009 | .0366 | .23 | .00202 | .00011 | .00022 | .00052 |
| %RSD | .02646 | .92837 | .02702 | .86121 | .17994 | .99388 | .02820 | .23487 | .26972 |
| #1 | .00567 | .00762 | .31759 | 4.2711 | 130.60 | .20457 | .39856 | .09319 | .19207 |
| #2 | .00567 | .00772 | .31771 | 4.2194 | 130.27 | .20171 | .39872 | .09350 | .19134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 100.00 | | | | |
| Low Limit | | | | | -.50000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **102.94** | **.05051** | **37.325** | **.44089** | **3.4640** | **.03136** | **.00218** | **.63604** | **.00658** |
| Stddev | .44 | .00040 | .183 | .00086 | .0186 | .00139 | .00107 | .01457 | .00008 |
| %RSD | .42500 | .78319 | .49074 | .19497 | .53635 | 4.4356 | 49.110 | 2.2912 | 1.1513 |
| #1 | 103.25 | .05079 | 37.454 | .44150 | 3.4771 | .03037 | .00294 | .64634 | .00664 |
| #2 | 102.63 | .05023 | 37.195 | .44028 | 3.4509 | .03234 | .00142 | .62573 | .00653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00502** | **.00082** | **.00307** | **-.00027** | **.01841** | **.00305** | **3.3633** | **-.00082** |
| Stddev | .00001 | .00054 | .00013 | .00030 | .02445 | .00016 | .0044 | .00307 |
| %RSD | .18411 | 66.441 | 4.2469 | 113.19 | 132.82 | 5.3123 | .13120 | 374.76 |
| #1 | .00501 | .00043 | .00298 | -.00048 | .03570 | .00316 | 3.3664 | -.00299 |
| #2 | .00503 | .00120 | .00317 | -.00005 | .00112 | .00293 | 3.3601 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5777.2** | **77165.** | **4340.7** |
| Stddev | 17.3 | 218. | .6 |
| %RSD | .29947 | .28234 | .01453 |
| #1 | 5789.4 | 77011. | 4340.2 |
| #2 | 5764.9 | 77319. | 4341.1 |

Sample Name: 280-42205-A-1-D MS  Acquired: 5/21/2013 22:16:00  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175097 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.19927** | **1.0324** | **.77731** | **1.6524** | **2.4233** | **.00864** | **.38105** | **16.667** | **.37824** |
| Stddev | .00096 | .0014 | .00208 | .0050 | .0063 | .00007 | .00126 | .001 | .00105 |
| %RSD | .48016 | .13257 | .26766 | .30492 | .26099 | .82482 | .33056 | .00738 | .27890 |
| #1 | .19859 | 1.0334 | .77583 | 1.6489 | 2.4278 | .00870 | .38015 | 16.668 | .37749 |
| #2 | .19994 | 1.0314 | .77878 | 1.6560 | 2.4189 | .00859 | .38194 | 16.666 | .37898 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12174** | **1.0179** | **1.8279** | **19.728** | F **615.40** | **1.1593** | **10.662** | **.51622** | **1.0675** |
| Stddev | .00039 | .0021 | .0073 | .004 | .95 | .0029 | .046 | .00260 | .0023 |
| %RSD | .31678 | .20700 | .40169 | .02008 | .15392 | .24695 | .43057 | .50419 | .21555 |
| #1 | .12147 | 1.0164 | 1.8227 | 19.731 | 616.07 | 1.1573 | 10.630 | .51438 | 1.0659 |
| #2 | .12201 | 1.0194 | 1.8331 | 19.725 | 614.73 | 1.1614 | 10.695 | .51806 | 1.0691 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **487.73** | **.32633** | F **166.17** | **2.9631** | **15.841** | **.22796** | **.57454** | **4.8207** | **.40156** |
| Stddev | 1.36 | .00069 | .31 | .0090 | .047 | .00311 | .00179 | .0158 | .00098 |
| %RSD | .27828 | .21114 | .18796 | .30489 | .29825 | 1.3645 | .31078 | .32796 | .24448 |
| #1 | 488.69 | .32585 | 165.95 | 2.9567 | 15.808 | .23016 | .57328 | 4.8095 | .40086 |
| #2 | 486.77 | .32682 | 166.39 | 2.9695 | 15.874 | .22576 | .57580 | 4.8319 | .40225 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | | | | |
| Low Limit | | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21421** | **.18310** | **.20847** | **.27878** | **.40495** | **.11050** | W **15.769** | **.09313** |
| Stddev | .00055 | .00197 | .00214 | .00205 | .04916 | .00106 | .068 | .00187 |
| %RSD | .25509 | 1.0762 | 1.0248 | .73365 | 12.139 | .96148 | .42805 | 2.0131 |
| #1 | .21460 | .18450 | .20696 | .27733 | .37019 | .10975 | 15.721 | .09180 |
| #2 | .21382 | .18171 | .20998 | .28023 | .43971 | .11125 | 15.817 | .09445 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5445.0** | **71270.** | **3963.0** |
| Stddev | 17.9 | 275. | 4.5 |
| %RSD | .32786 | .38613 | .11344 |
| #1 | 5432.4 | 71075. | 3959.9 |
| #2 | 5457.7 | 71465. | 3966.2 |

Sample Name: 280-42205-A-1-E MSD Acquired: 5/21/2013 22:18:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175097 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.19558** | **1.0052** | **.75663** | **1.6165** | **2.3251** | **.00850** | **.37085** | **15.951** | **.37070** |
| Stddev | .00018 | .0012 | .00540 | .0013 | .0271 | .00014 | .00201 | .270 | .00085 |
| %RSD | .09406 | .12200 | .71408 | .08273 | 1.1639 | 1.6001 | .54157 | 1.6908 | .22926 |
| #1 | .19545 | 1.0060 | .75281 | 1.6156 | 2.3059 | .00841 | .37227 | 15.761 | .37010 |
| #2 | .19571 | 1.0043 | .76045 | 1.6175 | 2.3442 | .00860 | .36943 | 16.142 | .37130 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11832** | **.99552** | **1.8053** | **18.782** | F **581.36** | **1.1048** | **10.457** | **.50721** | **1.0430** |
| Stddev | .00003 | .00132 | .0014 | .305 | 8.88 | .0177 | .012 | .00006 | .0011 |
| %RSD | .02415 | .13292 | .08022 | 1.6233 | 1.5273 | 1.6018 | .11257 | .01194 | .10246 |
| #1 | .11834 | .99458 | 1.8042 | 18.567 | 575.08 | 1.0923 | 10.465 | .50725 | 1.0423 |
| #2 | .11830 | .99645 | 1.8063 | 18.998 | 587.64 | 1.1173 | 10.448 | .50717 | 1.0438 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 500.00 | | | | |
| Low Limit | | | | | -2.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **467.50** | **.31639** | F **162.35** | **2.8985** | **15.400** | **.22496** | **.55782** | **4.5773** | **.38917** |
| Stddev | 6.45 | .00051 | .07 | .0069 | .035 | .00031 | .00477 | .0695 | .00061 |
| %RSD | 1.3798 | .15998 | .04380 | .23933 | .22416 | .13837 | .85459 | 1.5190 | .15779 |
| #1 | 462.94 | .31603 | 162.30 | 2.8936 | 15.376 | .22474 | .55445 | 4.5282 | .38961 |
| #2 | 472.06 | .31675 | 162.40 | 2.9035 | 15.424 | .22518 | .56119 | 4.6265 | .38874 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | | | | |
| Low Limit | | | -2.0000 | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20496** | **.18194** | **.20513** | **.26442** | **.37865** | **.10841** | W **15.370** | **.09095** |
| Stddev | .00312 | .00002 | .00042 | .00032 | .03391 | .00069 | .027 | .00068 |
| %RSD | 1.5240 | .01069 | .20666 | .12160 | 8.9556 | .63938 | .17294 | .74744 |
| #1 | .20275 | .18192 | .20483 | .26419 | .35467 | .10792 | 15.389 | .09047 |
| #2 | .20717 | .18195 | .20543 | .26465 | .40262 | .10890 | 15.352 | .09143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5462.9** | **75323.** | **4261.3** |
| Stddev | 11.5 | 191. | 21.1 |
| %RSD | .20982 | .25357 | .49517 |
| #1 | 5454.8 | 75188. | 4276.2 |
| #2 | 5471.0 | 75458. | 4246.4 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 22:21:54 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00168** | **48.357** | **-.00087** | **.01105** | **.00131** | **.00006** | **1.0020** | **.00633** | **-.00086** | **.00189** | **-.00039** | **.00217** |
| Stddev | .00053 | .387 | .00101 | .00026 | .00041 | .00016 | .0028 | .00420 | .00002 | .00004 | .00022 | .00027 |
| %RSD | 31.468 | .80069 | 116.03 | 2.3642 | 31.616 | 284.01 | .27814 | 66.257 | 1.8247 | 1.9662 | 55.493 | 12.628 |
| #1 | .00206 | 48.631 | -.00158 | .01124 | .00102 | -.00006 | 1.0000 | .00930 | -.00085 | .00187 | -.00024 | .00198 |
| #2 | .00131 | 48.083 | -.00016 | .01087 | .00160 | .00017 | 1.0039 | .00337 | -.00087 | .00192 | -.00054 | .00237 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.034** | **1.4762** | **-.00060** | **-.00421** | **-.00061** | **-.00150** | F **277.88** | **.00050** | **.00984** | **.00137** | **4.8949** | **.00014** |
| Stddev | .190 | .0024 | .00022 | .00048 | .00001 | .00014 | 3.44 | .00003 | .00155 | .00032 | .0189 | .00205 |
| %RSD | .41177 | .15889 | 36.725 | 11.346 | 1.8763 | 9.5091 | 1.2364 | 6.2900 | 15.778 | 23.610 | .38601 | 1430.1 |
| #1 | 46.168 | 1.4746 | -.00045 | -.00455 | -.00060 | -.00160 | 280.31 | .00052 | .01093 | .00160 | 4.8815 | -.00131 |
| #2 | 45.900 | 1.4779 | -.00076 | -.00387 | -.00062 | -.00140 | 275.45 | .00047 | .00874 | .00114 | 4.9083 | .00159 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00224** | **.01152** | **.00079** | **.00006** | **4.9019** | **.00134** | **-.00162** | **9.7709** | **.00082** | **.00426** | **-.02444** |
| Stddev | .00480 | .00619 | .00049 | .00004 | .0640 | .00016 | .00033 | .1105 | .00084 | .00050 | .00449 |
| %RSD | 214.22 | 53.734 | 62.132 | 61.146 | 1.3064 | 12.013 | 20.283 | 1.1307 | 102.34 | 11.784 | 18.367 |
| #1 | -.00564 | .00715 | .00114 | .00003 | 4.9472 | .00122 | -.00186 | 9.8490 | .00023 | .00461 | -.02761 |
| #2 | .00115 | .01590 | .00044 | .00008 | 4.8566 | .00145 | -.00139 | 9.6927 | .00141 | .00390 | -.02126 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5588.6** | **75642.** | **4112.8** |
| Stddev | 80.2 | 275. | 37.3 |
| %RSD | 1.4359 | .36327 | .90812 |
| #1 | 5531.9 | 75448. | 4086.4 |
| #2 | 5645.4 | 75837. | 4139.2 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 22:24:17 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51651** | **.50980** | **.99392** | **.50305** | **.52580** | **.46804** | **-.00162** | **4.8838** | **.50839** | **.51550** | **.50779** | **.50091** |
| Stddev | .00085 | .00099 | .00542 | .00157 | .00408 | .00467 | .00004 | .0084 | .00288 | .00096 | .00183 | .00252 |
| %RSD | .16470 | .19352 | .54529 | .31213 | .77614 | .99781 | 2.1743 | .17213 | .56587 | .18716 | .36056 | .50343 |
| #1 | .51591 | .50911 | .99009 | .50194 | .52869 | .47135 | -.00165 | 4.8897 | .51042 | .51482 | .50650 | .49913 |
| #2 | .51711 | .51050 | .99775 | .50416 | .52292 | .46474 | -.00160 | 4.8779 | .50636 | .51618 | .50909 | .50269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2923** | F **55.932** | F **1.1232** | **20.366** | **.51215** | **.50838** | F **6.1141** | **.51406** | **.99064** | **1.0248** | **.01232** | **.99679** |
| Stddev | .0115 | .400 | .0058 | .075 | .00073 | .00495 | .0698 | .00416 | .00422 | .0023 | .00001 | .00233 |
| %RSD | .49933 | .71425 | .51563 | .36971 | .14342 | .97358 | 1.1412 | .80869 | .42566 | .22722 | .10628 | .23373 |
| #1 | 2.3004 | 56.215 | 1.1273 | 20.313 | .51163 | .50488 | 6.1634 | .51112 | .98766 | 1.0231 | .01231 | .99844 |
| #2 | 2.2842 | 55.650 | 1.1191 | 20.420 | .51267 | .51188 | 6.0647 | .51700 | .99362 | 1.0264 | .01232 | .99514 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98025** | **4.7748** | **1.0159** | **.50371** | **.00024** | **.51247** | **1.0123** | **.06705** | **.50466** | **.52240** | **.49279** |
| Stddev | .00481 | .0067 | .0040 | .00508 | .00203 | .00076 | .0005 | .02694 | .00009 | .00009 | .00472 |
| %RSD | .49078 | .14039 | .39790 | 1.0090 | 849.72 | .14852 | .04714 | 40.172 | .01804 | .01658 | .95837 |
| #1 | .97685 | 4.7795 | 1.0130 | .50731 | -.00120 | .51193 | 1.0119 | .08610 | .50473 | .52234 | .49613 |
| #2 | .98365 | 4.7700 | 1.0187 | .50012 | .00167 | .51300 | 1.0126 | .04801 | .50460 | .52246 | .48945 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5638.7** | **74601.** | **4209.9** |
| Stddev | 45.8 | 410. | 17.5 |
| %RSD | .81162 | .54931 | .41541 |
| #1 | 5671.0 | 74311. | 4197.5 |
| #2 | 5606.3 | 74890. | 4222.2 |

Sample Name: CCB Acquired: 5/21/2013 22:26:31 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **.00031** | **-.00185** | F **.00866** | F **.00121** | **-.00004** | **-.00116** | **.00364** | **.00025** | **-.00018** | **-.00016** |
| Stddev | .00028 | .00010 | .00207 | .00035 | .00078 | .00014 | .00294 | .00402 | .00019 | .00006 | .00003 |
| %RSD | 41.185 | 31.315 | 112.16 | 4.0262 | 65.071 | 360.91 | 253.35 | 110.45 | 74.372 | 29.747 | 21.746 |
| #1 | -.00088 | .00024 | -.00331 | .00841 | .00176 | .00006 | -.00324 | .00080 | .00038 | -.00022 | -.00013 |
| #2 | -.00048 | .00038 | -.00038 | .00891 | .00065 | -.00014 | .00092 | .00648 | .00012 | -.00015 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00115 | | | | | | |
| Low Limit | | | | -.00312 | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.00550** | F **.74232** | **-.00221** | **.00170** | **.00011** | **.00038** | F **.60901** | **-.00050** | **.00104** | **.00061** |
| Stddev | .00048 | .00274 | .04356 | .00006 | .00058 | .00005 | .00026 | .00664 | .00005 | .00370 | .00062 |
| %RSD | 141.48 | 49.787 | 5.8675 | 2.6125 | 34.204 | 42.222 | 68.905 | 1.0901 | 9.4051 | 356.83 | 101.57 |
| #1 | .00000 | .00744 | .77311 | -.00225 | .00129 | .00014 | .00056 | .60431 | -.00046 | .00365 | .00104 |
| #2 | -.00067 | .00357 | .71152 | -.00217 | .00211 | .00008 | .00019 | .61370 | -.00053 | -.00158 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | | | .10000 | | | |
| Low Limit | | | -.25000 | | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01304** | **.00012** | **.00126** | **-.02041** | **.00014** | **.00006** | **-.00072** | W **-.00062** | **-.00015** | **-.00379** | **.00021** |
| Stddev | .00306 | .00094 | .00125 | .00491 | .00009 | .00002 | .00166 | .00039 | .00113 | .00884 | .00054 |
| %RSD | 23.439 | 773.76 | 99.324 | 24.071 | 61.655 | 32.422 | 231.19 | 62.570 | 776.02 | 233.34 | 257.89 |
| #1 | .01521 | .00079 | .00215 | -.01694 | .00020 | .00007 | -.00189 | -.00090 | .00065 | -.01004 | -.00017 |
| #2 | .01088 | -.00054 | .00038 | -.02388 | .00008 | .00005 | .00045 | -.00035 | -.00094 | .00246 | .00060 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .00060 | | | |
| Low Limit | | | | | | | | -.00060 | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00291** | **.00082** |
| Stddev | .00037 | .00098 |
| %RSD | 12.837 | 120.08 |
| #1 | .00265 | .00151 |
| #2 | .00318 | .00012 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5634.0** | **75505.** | **4110.7** |
| Stddev | 11.1 | 661. | 53.9 |
| %RSD | .19673 | .87585 | 1.3121 |
| #1 | 5641.8 | 75038. | 4072.5 |
| #2 | 5626.1 | 75973. | 4148.8 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 22:29:00 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00990** | **.10824** | **.01313** | **.10599** | W **.01238** | **.00087** | **.11138** | **.20920** | **.00557** | **.01127** | **.01041** |
| Stddev | .00073 | .00045 | .00271 | .00010 | .00022 | .00020 | .00154 | .00394 | .00021 | .00025 | .00030 |
| %RSD | 7.3556 | .41930 | 20.657 | .09015 | 1.8078 | 22.772 | 1.3851 | 1.8848 | 3.7754 | 2.1975 | 2.8655 |
| #1 | .01042 | .10792 | .01504 | .10592 | .01254 | .00073 | .11247 | .20641 | .00542 | .01110 | .01020 |
| #2 | .00939 | .10856 | .01121 | .10606 | .01222 | .00101 | .11029 | .21199 | .00572 | .01145 | .01062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | | | | | | |
| Range | | | | | 20.000% | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01543** | **.09501** | F **4.1727** | F **.01369** | **.22016** | **.01100** | **.02078** | F **1.7067** | **.04335** | **2.9415** | W **.01114** |
| Stddev | .00006 | .00053 | .0225 | .00165 | .00166 | .00005 | .00007 | .0057 | .00028 | .0090 | .00238 |
| %RSD | .40408 | .56049 | .53822 | 12.021 | .75323 | .46224 | .34144 | .33537 | .64978 | .30687 | 21.327 |
| #1 | .01539 | .09463 | 4.1568 | .01485 | .22133 | .01103 | .02073 | 1.7107 | .04355 | 2.9351 | .01282 |
| #2 | .01548 | .09539 | 4.1886 | .01252 | .21898 | .01096 | .02083 | 1.7026 | .04315 | 2.9479 | .00946 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| Value | | | 3.0000 | .01000 | | | | 1.0000 | | | .00900 |
| Range | | | 30.000% | 30.000% | | | | 30.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01136** | **.01157** | **.01667** | **.48402** | **.10348** | **.01056** | **.01544** | **.01019** | **.01566** | F **.09386** | **.01081** |
| Stddev | .00243 | .00009 | .00453 | .01384 | .00001 | .00021 | .00446 | .00031 | .00083 | .01126 | .00019 |
| %RSD | 21.368 | .77703 | 27.196 | 2.8593 | .00844 | 1.9797 | 28.906 | 2.9955 | 5.2826 | 12.001 | 1.7348 |
| #1 | .00965 | .01151 | .01347 | .49381 | .10347 | .01071 | .01860 | .00998 | .01508 | .10183 | .01095 |
| #2 | .01308 | .01163 | .01988 | .47424 | .10349 | .01041 | .01229 | .01041 | .01625 | .08590 | .01068 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02545** | W **.01175** |
| Stddev | .00058 | .00009 |
| %RSD | 2.2793 | .72614 |
| #1 | .02586 | .01169 |
| #2 | .02504 | .01181 |
| Check ? | Chk Warn | Chk Warn |
| Value | .02000 | .01500 |
| Range | 20.000% | -20.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5682.8** | **75555.** | **4124.1** |
| Stddev | 22.7 | 57. | 59.8 |
| %RSD | .39971 | .07530 | 1.4495 |
| #1 | 5666.7 | 75515. | 4081.8 |
| #2 | 5698.8 | 75595. | 4166.3 |

Sample Name: LB2 280-174656/1-C Acquired: 5/21/2013 22:31:25 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00133** | **.00899** | **.00132** | F **.05647** | **.00356** | **-.00007** | **-.00222** | F **.68429** | **.00028** |
| Stddev | .00108 | .00011 | .00002 | .00003 | .00035 | .00011 | .00232 | .00094 | .00001 |
| %RSD | 81.413 | 1.2489 | 1.4387 | .05575 | 9.7979 | 158.19 | 104.32 | .13787 | 2.5031 |
| #1 | -.00209 | .00892 | .00134 | .05649 | .00380 | -.00015 | -.00386 | .68496 | .00028 |
| #2 | -.00056 | .00907 | .00131 | .05644 | .00331 | .00001 | -.00058 | .68363 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | .01000 | | | | .20000 | |
| Low Limit | | | | -.01000 | | | | -.20000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **-.00011** | **.00286** | **.01025** | **.70265** | **-.00310** | W **.09317** | **.00043** | **.00017** |
| Stddev | .00021 | .00007 | .00062 | .00034 | .05490 | .00125 | .00289 | .00001 | .00007 |
| %RSD | 89.816 | 67.033 | 21.543 | 3.2836 | 7.8133 | 40.353 | 3.1016 | 2.3271 | 41.966 |
| #1 | -.00039 | -.00016 | .00242 | .01002 | .74147 | -.00398 | .09113 | .00042 | .00012 |
| #2 | -.00009 | -.00006 | .00329 | .01049 | .66383 | -.00221 | .09521 | .00044 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | |
| Low Limit | | | | | | | -.05000 | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **4.0199** | **-.00062** | **.00340** | **.00207** | **.03651** | **.00126** | W **.00881** | **.01718** | **.00199** |
| Stddev | .0172 | .00032 | .00138 | .00032 | .00007 | .00075 | .00145 | .00537 | .00061 |
| %RSD | .42863 | 50.821 | 40.673 | 15.504 | .18674 | 59.585 | 16.503 | 31.252 | 30.787 |
| #1 | 4.0320 | -.00040 | .00242 | .00184 | .03656 | .00180 | .00984 | .02098 | .00242 |
| #2 | 4.0077 | -.00084 | .00437 | .00229 | .03646 | .00073 | .00778 | .01339 | .00156 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 1.0000 | | | | | | .00500 | | |
| Low Limit | -1.0000 | | | | | | -.00500 | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **.00033** | **.00019** | **-.00343** | **.00118** | **.00051** | F **.01504** | **-.00275** |
| Stddev | .00007 | .00211 | .00004 | .00097 | .02128 | .00001 | .00021 | .00180 |
| %RSD | 17.461 | 633.03 | 18.074 | 28.360 | 1809.3 | 2.5555 | 1.3772 | 65.510 |
| #1 | .00046 | -.00116 | .00022 | -.00274 | .01622 | .00050 | .01519 | -.00402 |
| #2 | .00036 | .00183 | .00017 | -.00412 | -.01387 | .00052 | .01489 | -.00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | .01000 | |
| Low Limit | | | | | | | -.01000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5802.4** | **76021.** | **4078.7** |
| Stddev | 13.7 | 37. | 50.4 |
| %RSD | .23642 | .04820 | 1.2365 |
| #1 | 5792.7 | 75995. | 4043.0 |
| #2 | 5812.1 | 76047. | 4114.4 |

Sample Name: LCS 280-174656/2-C Acquired: 5/21/2013 22:33:53 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22212** | **.42197** | **.81000** | F **.25605** | **2.6222** | **.00931** | **.42659** | **10.514** | **.23396** |
| Stddev | .00051 | .00025 | .00731 | .00089 | .0004 | .00031 | .00031 | .026 | .00018 |
| %RSD | .23152 | .06009 | .90239 | .34922 | .01318 | 3.2995 | .07160 | .24491 | .07754 |
| #1 | .22175 | .42179 | .81517 | .25668 | 2.6224 | .00953 | .42681 | 10.532 | .23409 |
| #2 | .22248 | .42215 | .80483 | .25542 | 2.6219 | .00909 | .42638 | 10.495 | .23383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .24000 | | | | | |
| Low Limit | | | | .16000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10519** | **1.0833** | **.47059** | **.20191** | F **12.024** | **.22880** | **10.349** | **.10430** | **.20760** |
| Stddev | .00019 | .0001 | .00022 | .00354 | .062 | .00108 | .005 | .00019 | .00012 |
| %RSD | .18412 | .01228 | .04609 | 1.7517 | .51837 | .46989 | .04529 | .18395 | .05960 |
| #1 | .10505 | 1.0832 | .47044 | .19941 | 12.068 | .22956 | 10.346 | .10416 | .20769 |
| #2 | .10533 | 1.0834 | .47075 | .20441 | 11.980 | .22804 | 10.352 | .10443 | .20751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 12.000 | | | | |
| Low Limit | | | | | 8.0000 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **15.335** | **.10337** | **2.0191** | **1.1705** | **.03071** | **.10675** | **.62405** | F **1.9337** | **.41349** |
| Stddev | .224 | .00032 | .0019 | .0014 | .00263 | .00023 | .00132 | .0058 | .00197 |
| %RSD | 1.4609 | .30687 | .09568 | .12250 | 8.5502 | .21483 | .21150 | .29971 | .47670 |
| #1 | 15.176 | .10314 | 2.0204 | 1.1716 | .02885 | .10691 | .62312 | 1.9378 | .41489 |
| #2 | 15.493 | .10359 | 2.0177 | 1.1695 | .03257 | .10659 | .62499 | 1.9296 | .41210 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | 12.000 | | | | | | | .48000 | |
| Low Limit | 8.0000 | | | | | | | .32000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20725** | **.20488** | **.20760** | **.41492** | **.43990** | **.10382** | **.53800** | **.09783** |
| Stddev | .00126 | .00048 | .00014 | .00118 | .01986 | .00026 | .00096 | .00142 |
| %RSD | .60994 | .23314 | .06784 | .28364 | 4.5147 | .25033 | .17834 | 1.4564 |
| #1 | .20815 | .20454 | .20750 | .41575 | .42586 | .10400 | .53868 | .09682 |
| #2 | .20636 | .20521 | .20770 | .41408 | .45395 | .10363 | .53732 | .09884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5809.2** | **77587.** | **4172.9** |
| Stddev | 7.3 | 500. | 11.2 |
| %RSD | .12522 | .64455 | .26786 |
| #1 | 5804.0 | 77233. | 4165.0 |
| #2 | 5814.3 | 77941. | 4180.8 |

Sample Name: 280-42134-A-2-E Acquired: 5/21/2013 22:36:11 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **13.403** | **-.00443** | **.43882** | **.24561** | **.00057** | W **-.01277** | W **1294.9** | **.00185** |
| Stddev | .00022 | .024 | .00048 | .00087 | .00029 | .00016 | .00145 | 16.4 | .00006 |
| %RSD | 30.576 | .17732 | 10.939 | .19714 | .11716 | 28.074 | 11.344 | 1.2646 | 3.4180 |
| #1 | -.00057 | 13.386 | -.00409 | .43943 | .24541 | .00046 | -.01379 | 1306.5 | .00190 |
| #2 | -.00088 | 13.420 | -.00477 | .43821 | .24582 | .00069 | -.01174 | 1283.3 | .00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| High Limit | | | | | | | 3.0000 | 500.00 | |
| Low Limit | | | | | | | -.01000 | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01881** | **.11307** | **.00893** | **139.49** | **26.776** | **.02644** | **30.832** | **2.0191** | **.00166** |
| Stddev | .00056 | .00072 | .00031 | .41 | .048 | .00013 | .079 | .0018 | .00014 |
| %RSD | 3.0012 | .63529 | 3.4615 | .29131 | .18009 | .50348 | .25710 | .08716 | 8.4245 |
| #1 | .01921 | .11358 | .00914 | 139.21 | 26.742 | .02654 | 30.888 | 2.0203 | .00156 |
| #2 | .01841 | .11256 | .00871 | 139.78 | 26.810 | .02635 | 30.776 | 2.0178 | .00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.705** | **.14247** | **.33767** | **.01366** | **273.81** | **.00392** | **.01741** | **34.534** | **.00280** |
| Stddev | .125 | .00034 | .00374 | .00147 | .01 | .00140 | .00022 | .146 | .00068 |
| %RSD | .60218 | .23597 | 1.1082 | 10.758 | .00375 | 35.770 | 1.2726 | .42284 | 24.328 |
| #1 | 20.793 | .14271 | .34031 | .01262 | 273.82 | .00491 | .01725 | 34.431 | .00232 |
| #2 | 20.616 | .14223 | .33502 | .01470 | 273.80 | .00293 | .01756 | 34.637 | .00328 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94785** | **.02651** | **.37029** | **-.00566** | **-.04152** | **.01747** | **8.7973** | **.00745** |
| Stddev | .00092 | .00020 | .00013 | .00190 | .00411 | .00003 | .0402 | .00127 |
| %RSD | .09666 | .74202 | .03398 | 33.652 | 9.8955 | .18590 | .45728 | 17.098 |
| #1 | .94850 | .02665 | .37038 | -.00431 | -.04443 | .01750 | 8.8258 | .00835 |
| #2 | .94720 | .02637 | .37020 | -.00701 | -.03862 | .01745 | 8.7689 | .00655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5354.4** | **72731.** | **4239.4** |
| Stddev | 46.5 | 434. | 15.7 |
| %RSD | .86779 | .59642 | .36975 |
| #1 | 5321.5 | 72425. | 4228.4 |
| #2 | 5387.2 | 73038. | 4250.5 |

Sample Name: 280-42134-A-4-E Acquired: 5/21/2013 22:39:09 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00057** | **.00187** | **-.00597** | **.04445** | **.08160** | **-.00027** | **-.00639** | W **543.35** | **.00063** |
| Stddev | .00053 | .00004 | .00033 | .00035 | .00026 | .00006 | .00193 | 4.31 | .00006 |
| %RSD | 93.632 | 1.9653 | 5.5792 | .78590 | .32250 | 20.511 | 30.232 | .79262 | 10.245 |
| #1 | -.00019 | .00185 | -.00621 | .04470 | .08142 | -.00023 | -.00503 | 546.40 | .00058 |
| #2 | -.00094 | .00190 | -.00574 | .04420 | .08179 | -.00031 | -.00776 | 540.31 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **.00496** | **.00106** | **.02781** | **18.599** | **.05353** | W **618.23** | **.00057** | **.00501** |
| Stddev | .00004 | .00025 | .00002 | .00037 | .059 | .00005 | 6.23 | .00013 | .00030 |
| %RSD | 3.9745 | 5.1222 | 1.5846 | 1.3382 | .31935 | .09037 | 1.0081 | 23.462 | 5.9776 |
| #1 | .00100 | .00478 | .00104 | .02755 | 18.557 | .05350 | 613.82 | .00067 | .00480 |
| #2 | .00106 | .00514 | .00107 | .02807 | 18.641 | .05357 | 622.63 | .00048 | .00522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 500.00 | | |
| Low Limit | | | | | | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **341.51** | **.00011** | **.18902** | **.00351** | **28.838** | **.00280** | **.00603** | **.33123** | **.00052** |
| Stddev | .69 | .00003 | .00369 | .00117 | .072 | .00211 | .00739 | .00262 | .00117 |
| %RSD | .20257 | 30.417 | 1.9510 | 33.245 | .24826 | 75.238 | 122.65 | .79145 | 225.78 |
| #1 | 342.00 | .00008 | .19163 | .00433 | 28.888 | .00131 | .00080 | .33308 | .00135 |
| #2 | 341.03 | .00013 | .18642 | .00268 | 28.787 | .00429 | .01125 | .32937 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.57215** | **.00126** | **-.00116** | **-.00309** | W **-.06254** | **.00253** | **.00720** | **-.00272** |
| Stddev | .00336 | .00123 | .00012 | .00203 | .02232 | .00036 | .00021 | .00080 |
| %RSD | .58657 | 97.743 | 10.320 | 65.794 | 35.693 | 14.259 | 2.8741 | 29.530 |
| #1 | .57452 | .00039 | -.00108 | -.00165 | -.04676 | .00227 | .00734 | -.00329 |
| #2 | .56977 | .00213 | -.00125 | -.00452 | -.07833 | .00278 | .00705 | -.00215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5008.0** | **68438.** | **3932.3** |
| Stddev | 18.8 | 203. | 26.2 |
| %RSD | .37447 | .29730 | .66741 |
| #1 | 5021.2 | 68582. | 3950.9 |
| #2 | 4994.7 | 68294. | 3913.8 |

Sample Name: 280-42134-A-5-E Acquired: 5/21/2013 22:42:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00096** | **18.176** | **.00112** | **.38762** | **.24645** | **.00073** | W **-.01901** | W **1175.4** | **.00036** |
| Stddev | .00007 | .024 | .00151 | .00210 | .00124 | .00010 | .00253 | 14.7 | .00009 |
| %RSD | 7.1167 | .13195 | 135.62 | .54114 | .50253 | 13.459 | 13.329 | 1.2487 | 24.890 |
| #1 | -.00091 | 18.159 | .00005 | .38910 | .24557 | .00066 | -.02080 | 1185.8 | .00030 |
| #2 | -.00100 | 18.193 | .00219 | .38614 | .24732 | .00079 | -.01722 | 1165.1 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| High Limit | | | | | | | 3.0000 | 500.00 | |
| Low Limit | | | | | | | -.01000 | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02094** | **.16537** | **.00421** | **181.53** | **28.689** | **.02714** | **28.431** | **2.1198** | **.00342** |
| Stddev | .00031 | .00117 | .00064 | 1.39 | .055 | .00134 | .116 | .0134 | .00061 |
| %RSD | 1.4986 | .70586 | 15.148 | .76840 | .19096 | 4.9503 | .40818 | .63375 | 17.899 |
| #1 | .02116 | .16620 | .00376 | 180.54 | 28.650 | .02619 | 28.349 | 2.1103 | .00299 |
| #2 | .02072 | .16455 | .00467 | 182.51 | 28.728 | .02809 | 28.513 | 2.1293 | .00385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.403** | **.16282** | **.66081** | **.01779** | **351.81** | **.00625** | **.00931** | **46.389** | **.00372** |
| Stddev | .491 | .00172 | .00270 | .00161 | .77 | .00086 | .00221 | .017 | .00038 |
| %RSD | 3.9615 | 1.0552 | .40891 | 9.0728 | .22021 | 13.749 | 23.750 | .03709 | 10.132 |
| #1 | 12.055 | .16403 | .66272 | .01893 | 352.35 | .00565 | .01087 | 46.401 | .00398 |
| #2 | 12.750 | .16160 | .65890 | .01664 | 351.26 | .00686 | .00775 | 46.376 | .00345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.87555** | **.03694** | **.64691** | **-.00580** | **-.03534** | **.03023** | W **17.159** | **.01691** |
| Stddev | .00001 | .00107 | .00376 | .00028 | .02639 | .00028 | .077 | .00150 |
| %RSD | .00083 | 2.8841 | .58099 | 4.8798 | 74.677 | .92995 | .44957 | 8.8525 |
| #1 | .87554 | .03769 | .64425 | -.00560 | -.05400 | .03043 | 17.105 | .01797 |
| #2 | .87555 | .03618 | .64957 | -.00600 | -.01668 | .03004 | 17.214 | .01585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | 10.000 | |
| Low Limit | | | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5222.2** | **70961.** | **4085.9** |
| Stddev | 55.2 | 57. | 26.9 |
| %RSD | 1.0574 | .08100 | .65954 |
| #1 | 5183.2 | 70921. | 4066.9 |
| #2 | 5261.2 | 71002. | 4105.0 |

Sample Name: 280-42134-A-8-E Acquired: 5/21/2013 22:45:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00205** | **.07091** | W **-.01126** | **1.1720** | **.16738** | **-.00067** | W **-.01178** | W **1617.3** | **-.00007** |
| Stddev | .00060 | .00097 | .00124 | .0057 | .00233 | .00010 | .00098 | 28.7 | .00009 |
| %RSD | 29.461 | 1.3710 | 11.052 | .48539 | 1.3899 | 15.685 | 8.3150 | 1.7728 | 124.47 |
| #1 | -.00248 | .07159 | -.01214 | 1.1760 | .16903 | -.00059 | -.01109 | 1637.5 | -.00001 |
| #2 | -.00163 | .07022 | -.01038 | 1.1680 | .16574 | -.00074 | -.01248 | 1597.0 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| High Limit | | | 45.000 | | | | 3.0000 | 500.00 | |
| Low Limit | | | -.01000 | | | | -.01000 | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00553** | **.07203** | **.00580** | **.02554** | **5.2471** | **.03119** | **32.981** | **.12773** | **.01080** |
| Stddev | .00039 | .00013 | .00026 | .00122 | .0647 | .00215 | .024 | .00011 | .00015 |
| %RSD | 7.1029 | .17990 | 4.5310 | 4.7897 | 1.2326 | 6.8997 | .07213 | .08577 | 1.4058 |
| #1 | .00581 | .07193 | .00561 | .02640 | 5.2928 | .02966 | 32.964 | .12781 | .01069 |
| #2 | .00525 | .07212 | .00598 | .02467 | 5.2014 | .03271 | 32.997 | .12765 | .01091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.225** | **.03778** | **-.00314** | **.00096** | **82.779** | **.02689** | **.01382** | **12.465** | **-.00046** |
| Stddev | .581 | .00036 | .00206 | .00171 | .136 | .00006 | .00216 | .157 | .00007 |
| %RSD | 1.1342 | .94344 | 65.570 | 178.58 | .16445 | .21356 | 15.616 | 1.2614 | 14.460 |
| #1 | 51.635 | .03753 | -.00459 | -.00025 | 82.875 | .02693 | .01230 | 12.577 | -.00050 |
| #2 | 50.814 | .03804 | -.00168 | .00217 | 82.682 | .02685 | .01535 | 12.354 | -.00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3367** | **.00180** | **.01098** | **.00018** | W **-.05236** | **.02021** | **.00925** | **-.00041** |
| Stddev | .0273 | .00105 | .00028 | .00005 | .00729 | .00049 | .00010 | .00189 |
| %RSD | 2.0426 | 58.341 | 2.5500 | 28.469 | 13.924 | 2.4476 | 1.0886 | 460.95 |
| #1 | 1.3561 | .00254 | .01078 | .00022 | -.05752 | .02056 | .00932 | .00092 |
| #2 | 1.3174 | .00106 | .01118 | .00014 | -.04721 | .01986 | .00918 | -.00174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4928.0** | **66523.** | **3775.8** |
| Stddev | 17.9 | 75. | 49.2 |
| %RSD | .36264 | .11248 | 1.3024 |
| #1 | 4915.3 | 66576. | 3741.0 |
| #2 | 4940.6 | 66471. | 3810.5 |

Sample Name: 280-42134-A-9-E Acquired: 5/21/2013 22:48:18 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00146** | **.00252** | **-.00089** | **.07668** | **.20712** | **-.00025** | **-.00236** | **278.25** | **.00242** |
| Stddev | .00052 | .00037 | .00170 | .00018 | .00101 | .00006 | .00100 | .77 | .00014 |
| %RSD | 35.438 | 14.554 | 190.82 | .23707 | .48857 | 22.607 | 42.415 | .27517 | 5.6640 |
| #1 | -.00110 | .00226 | -.00209 | .07655 | .20784 | -.00021 | -.00165 | 278.79 | .00252 |
| #2 | -.00183 | .00278 | .00031 | .07681 | .20640 | -.00030 | -.00306 | 277.70 | .00233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00178** | **.00024** | **.01893** | **22.867** | **.04828** | W **919.58** | **.00201** | **.02963** |
| Stddev | .00011 | .00005 | .00011 | .00310 | .104 | .00049 | 17.16 | .00001 | .00014 |
| %RSD | 47.879 | 2.7561 | 45.206 | 16.396 | .45351 | 1.0221 | 1.8655 | .30001 | .47004 |
| #1 | .00030 | .00182 | .00031 | .02112 | 22.941 | .04863 | 907.45 | .00200 | .02973 |
| #2 | .00015 | .00175 | .00016 | .01673 | 22.794 | .04793 | 931.72 | .00201 | .02953 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 500.00 | | |
| Low Limit | | | | | | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **38.505** | **-.00060** | **-.00376** | **.09202** | **64.240** | **.01913** | **.02008** | **.16924** | **.00005** |
| Stddev | .016 | .00024 | .00459 | .00278 | .057 | .00041 | .00574 | .01093 | .00009 |
| %RSD | .04089 | 40.404 | 122.10 | 3.0252 | .08836 | 2.1442 | 28.572 | 6.4592 | 202.36 |
| #1 | 38.516 | -.00043 | -.00701 | .09005 | 64.280 | .01884 | .01602 | .17697 | .00011 |
| #2 | 38.494 | -.00077 | -.00051 | .09399 | 64.200 | .01942 | .02413 | .16151 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35287** | **.00343** | **-.00526** | **.00429** | **-.03562** | **.00198** | **.01977** | **-.00222** |
| Stddev | .00258 | .00015 | .00029 | .00023 | .00238 | .00016 | .00041 | .00269 |
| %RSD | .73198 | 4.3136 | 5.5112 | 5.4442 | 6.6799 | 7.9066 | 2.0710 | 120.83 |
| #1 | .35469 | .00332 | -.00506 | .00413 | -.03731 | .00187 | .01948 | -.00032 |
| #2 | .35104 | .00353 | -.00547 | .00446 | -.03394 | .00209 | .02006 | -.00413 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5115.7** | **69053.** | **3876.4** |
| Stddev | 15.0 | 596. | 10.9 |
| %RSD | .29332 | .86318 | .28075 |
| #1 | 5105.1 | 69474. | 3868.7 |
| #2 | 5126.4 | 68631. | 3884.1 |

Sample Name: 280-42134-A-10-E Acquired: 5/21/2013 22:51:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00042** | **2.3696** | **-.00925** | **.59310** | **.18551** | **-.00024** | **-.00943** | W **1439.4** | **.00631** |
| Stddev | .00021 | .0003 | .00030 | .00032 | .00123 | .00004 | .00184 | 8.1 | .00008 |
| %RSD | 50.640 | .01046 | 3.2856 | .05408 | .66102 | 18.112 | 19.487 | .56164 | 1.3387 |
| #1 | -.00057 | 2.3694 | -.00904 | .59288 | .18464 | -.00027 | -.01073 | 1433.7 | .00625 |
| #2 | -.00027 | 2.3698 | -.00947 | .59333 | .18638 | -.00021 | -.00813 | 1445.1 | .00637 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02653** | **.02830** | **.00737** | **30.011** | **13.411** | **.02741** | **31.841** | **3.3838** | **.00031** |
| Stddev | .00016 | .00015 | .00036 | .212 | .071 | .00003 | .062 | .0068 | .00003 |
| %RSD | .58786 | .53251 | 4.8838 | .70661 | .52950 | .12180 | .19614 | .20186 | 10.892 |
| #1 | .02664 | .02841 | .00762 | 29.861 | 13.360 | .02744 | 31.885 | 3.3886 | .00029 |
| #2 | .02642 | .02820 | .00711 | 30.161 | 13.461 | .02739 | 31.796 | 3.3790 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **35.665** | **.20246** | **.07482** | **.00694** | **68.526** | **.00913** | **.01165** | **14.787** | **.00063** |
| Stddev | .275 | .00037 | .00350 | .00195 | .109 | .00208 | .00561 | .014 | .00063 |
| %RSD | .77169 | .18178 | 4.6806 | 28.077 | .15860 | 22.761 | 48.111 | .09508 | 100.15 |
| #1 | 35.471 | .20220 | .07730 | .00832 | 68.449 | .00766 | .00769 | 14.777 | .00107 |
| #2 | 35.860 | .20272 | .07235 | .00556 | 68.603 | .01059 | .01562 | 14.797 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90581** | **.00569** | **.07224** | **-.00271** | W **-.06006** | **.00373** | F **107.75** | **.00100** |
| Stddev | .00148 | .00231 | .00075 | .00008 | .00666 | .00035 | 1.10 | .00081 |
| %RSD | .16312 | 40.576 | 1.0374 | 2.9338 | 11.085 | 9.2521 | 1.0221 | 80.936 |
| #1 | .90476 | .00406 | .07171 | -.00265 | -.06477 | .00397 | 108.53 | .00157 |
| #2 | .90685 | .00733 | .07277 | -.00276 | -.05536 | .00349 | 106.97 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | 45.000 | | 50.000 | |
| Low Limit | | | | | -.05000 | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5091.4** | **69074.** | **3912.0** |
| Stddev | 8.8 | 218. | 7.5 |
| %RSD | .17297 | .31503 | .19179 |
| #1 | 5085.1 | 68920. | 3917.3 |
| #2 | 5097.6 | 69228. | 3906.7 |

Sample Name: 280-42134-A-11-E Acquired: 5/21/2013 22:54:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00102** | **.91824** | **-.00847** | **.60981** | **.17772** | **-.00052** | **-.00989** | W **1481.6** | **-.00011** |
| Stddev | .00053 | .00154 | .00222 | .00262 | .00180 | .00003 | .00030 | 20.0 | .00001 |
| %RSD | 52.163 | .16794 | 26.256 | .43017 | 1.0128 | 5.6781 | 3.0679 | 1.3477 | 9.8882 |
| #1 | -.00064 | .91933 | -.00690 | .61167 | .17644 | -.00054 | -.00967 | 1467.4 | -.00010 |
| #2 | -.00140 | .91715 | -.01004 | .60796 | .17899 | -.00050 | -.01010 | 1495.7 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02998** | **.00890** | **.00445** | **32.978** | **14.825** | **.03033** | **35.662** | **3.9729** | **-.00018** |
| Stddev | .00023 | .00028 | .00033 | .442 | .211 | .00389 | .402 | .0474 | .00037 |
| %RSD | .76555 | 3.1583 | 7.3031 | 1.3411 | 1.4226 | 12.813 | 1.1279 | 1.1924 | 205.23 |
| #1 | .02981 | .00909 | .00468 | 32.665 | 14.676 | .02759 | 35.378 | 3.9394 | -.00044 |
| #2 | .03014 | .00870 | .00422 | 33.291 | 14.974 | .03308 | 35.947 | 4.0064 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.393** | **.23560** | **.00678** | **.00360** | **69.630** | **.00807** | **.01799** | **9.4136** | **.00058** |
| Stddev | .890 | .00103 | .00099 | .00153 | .172 | .00061 | .00516 | .1264 | .00069 |
| %RSD | 1.8785 | .43876 | 14.599 | 42.406 | .24630 | 7.5338 | 28.667 | 1.3430 | 120.28 |
| #1 | 46.764 | .23633 | .00608 | .00252 | 69.751 | .00850 | .02164 | 9.3242 | .00009 |
| #2 | 48.023 | .23487 | .00748 | .00468 | 69.508 | .00764 | .01434 | 9.5030 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93003** | **.00592** | **.02232** | **-.00499** | **-.02554** | **.00072** | F **115.61** | **-.00179** |
| Stddev | .01047 | .00038 | .00019 | .00155 | .00808 | .00052 | 1.47 | .00035 |
| %RSD | 1.1260 | 6.3529 | .85479 | 31.101 | 31.645 | 72.388 | 1.2693 | 19.766 |
| #1 | .92263 | .00565 | .02219 | -.00389 | -.01982 | .00035 | 114.57 | -.00204 |
| #2 | .93744 | .00618 | .02246 | -.00608 | -.03125 | .00109 | 116.65 | -.00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5021.1** | **67057.** | **3851.8** |
| Stddev | 8.2 | 628. | 6.0 |
| %RSD | .16398 | .93701 | .15472 |
| #1 | 5015.3 | 67501. | 3856.1 |
| #2 | 5026.9 | 66613. | 3847.6 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 22:57:33 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00171** | **48.636** | **-.00021** | **.00809** | **.00162** | **-.00012** | **.99301** | **.05515** | **-.00089** | **.00184** | **-.00036** | **.00246** |
| Stddev | .00092 | .356 | .00100 | .00100 | .00041 | .00005 | .00197 | .00395 | .00007 | .00016 | .00001 | .00023 |
| %RSD | 53.736 | .73260 | 487.50 | 12.398 | 25.402 | 42.253 | .19880 | 7.1604 | 7.4729 | 8.4392 | 3.8724 | 9.2815 |
| #1 | .00106 | 48.888 | .00050 | .00880 | .00133 | -.00008 | .99162 | .05235 | -.00093 | .00195 | -.00037 | .00262 |
| #2 | .00236 | 48.384 | -.00091 | .00738 | .00191 | -.00015 | .99441 | .05794 | -.00084 | .00173 | -.00035 | .00230 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.472** | **.25714** | **-.00204** | **-.00284** | **-.00060** | **-.00188** | F **280.32** | **.00036** | **.00362** | **-.00010** | **4.8635** | **-.00134** |
| Stddev | .105 | .08102 | .00296 | .00003 | .00000 | .00054 | 1.63 | .00000 | .00197 | .00254 | .0056 | .00123 |
| %RSD | .22603 | 31.508 | 145.24 | 1.0183 | .08597 | 28.696 | .58093 | .63526 | 54.410 | 2673.2 | .11599 | 91.999 |
| #1 | 46.547 | .19985 | .00006 | -.00286 | -.00060 | -.00226 | 281.48 | .00036 | .00223 | -.00189 | 4.8595 | -.00047 |
| #2 | 46.398 | .31443 | -.00414 | -.00282 | -.00060 | -.00150 | 279.17 | .00037 | .00502 | .00170 | 4.8675 | -.00221 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00115** | **-.01468** | **.00031** | **.00011** | **5.0586** | **.00187** | **-.00300** | **10.055** | **-.00028** | **.00794** | **-.03171** |
| Stddev | .00253 | .01877 | .00030 | .00005 | .0129 | .00013 | .00196 | .006 | .00013 | .00102 | .00320 |
| %RSD | 219.69 | 127.88 | 94.917 | 50.522 | .25579 | 6.7583 | 65.409 | .06454 | 47.282 | 12.827 | 10.099 |
| #1 | -.00294 | -.02795 | .00010 | .00015 | 5.0494 | .00196 | -.00161 | 10.060 | -.00037 | .00866 | -.02945 |
| #2 | .00064 | -.00141 | .00052 | .00007 | 5.0677 | .00178 | -.00438 | 10.050 | -.00019 | .00722 | -.03398 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5373.6** | **70893.** | **3855.9** |
| Stddev | 14.2 | 318. | 38.0 |
| %RSD | .26387 | .44834 | .98570 |
| #1 | 5363.6 | 70668. | 3829.1 |
| #2 | 5383.6 | 71118. | 3882.8 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 22:59:56 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51335** | **.51769** | **.99714** | **.49998** | **.53462** | **.47143** | **-.00216** | **4.9309** | **.51410** | **.52243** | **.51031** | **.49906** |
| Stddev | .00096 | .00038 | .00194 | .00259 | .00038 | .00084 | .00131 | .0205 | .00152 | .00200 | .00292 | .00014 |
| %RSD | .18661 | .07310 | .19433 | .51711 | .07133 | .17837 | 60.585 | .41574 | .29562 | .38355 | .57186 | .02762 |
| #1 | .51402 | .51742 | .99577 | .49815 | .53489 | .47202 | -.00124 | 4.9164 | .51302 | .52101 | .50825 | .49896 |
| #2 | .51267 | .51796 | .99851 | .50181 | .53435 | .47083 | -.00309 | 4.9454 | .51517 | .52385 | .51238 | .49915 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3237** | F **56.805** | F **1.1420** | **20.343** | **.51336** | **.50947** | F **6.0240** | **.51658** | **.98978** | **1.0367** | **.02544** | **1.0019** |
| Stddev | .0056 | .031 | .0020 | .069 | .00053 | .00153 | .0359 | .00032 | .00150 | .0044 | .00034 | .0013 |
| %RSD | .24184 | .05528 | .17802 | .33979 | .10295 | .29994 | .59537 | .06193 | .15108 | .42587 | 1.3525 | .13226 |
| #1 | 2.3197 | 56.828 | 1.1406 | 20.392 | .51373 | .50839 | 6.0493 | .51635 | .98872 | 1.0336 | .02568 | 1.0009 |
| #2 | 2.3277 | 56.783 | 1.1435 | 20.294 | .51298 | .51055 | 5.9986 | .51681 | .99084 | 1.0398 | .02519 | 1.0028 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98153** | **4.8422** | **1.0197** | **.50743** | **-.00022** | **.51289** | **1.0210** | **.02611** | **.50349** | **.52186** | **.50036** |
| Stddev | .00111 | .0251 | .0003 | .00230 | .00005 | .00098 | .0005 | .01708 | .00139 | .00139 | .00225 |
| %RSD | .11299 | .51862 | .03358 | .45382 | 21.241 | .19105 | .04767 | 65.410 | .27511 | .26567 | .44871 |
| #1 | .98231 | 4.8599 | 1.0199 | .50906 | -.00019 | .51358 | 1.0206 | .01403 | .50447 | .52284 | .49877 |
| #2 | .98074 | 4.8244 | 1.0195 | .50580 | -.00026 | .51219 | 1.0213 | .03819 | .50251 | .52088 | .50195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5388.3** | **72078.** | **3848.4** |
| Stddev | 23.3 | 320. | 16.6 |
| %RSD | .43309 | .44456 | .43216 |
| #1 | 5404.8 | 71851. | 3860.2 |
| #2 | 5371.8 | 72304. | 3836.7 |

Sample Name: CCB Acquired: 5/21/2013 23:02:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00101** | **.00014** | **-.00055** | F **.00618** | F **.00210** | **.00006** | **-.00046** | **.00748** | **.00009** | **.00008** | **-.00032** |
| Stddev | .00053 | .00027 | .00107 | .00003 | .00035 | .00008 | .00205 | .00545 | .00005 | .00010 | .00009 |
| %RSD | 51.980 | 196.94 | 193.82 | .42546 | 16.719 | 148.43 | 440.53 | 72.822 | 52.943 | 128.78 | 26.813 |
| #1 | -.00138 | -.00005 | .00020 | .00620 | .00235 | -.00000 | -.00191 | .01133 | .00006 | .00001 | -.00026 |
| #2 | -.00064 | .00033 | -.00131 | .00617 | .00185 | .00011 | .00098 | .00363 | .00013 | .00014 | -.00038 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00115 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **.00699** | **.17734** | W **-.00426** | **.00172** | **.00009** | **.00043** | F **.44252** | **-.00062** | **.00171** | **.00217** |
| Stddev | .00100 | .00146 | .08405 | .00050 | .00194 | .00002 | .00009 | .00135 | .00018 | .00050 | .00052 |
| %RSD | 208.87 | 20.870 | 47.391 | 11.626 | 112.83 | 26.602 | 21.675 | .30501 | 29.259 | 28.993 | 24.150 |
| #1 | .00023 | .00596 | .23677 | -.00391 | .00309 | .00007 | .00037 | .44156 | -.00050 | .00206 | .00180 |
| #2 | -.00119 | .00802 | .11792 | -.00461 | .00035 | .00011 | .00050 | .44347 | -.00075 | .00136 | .00254 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02434** | **-.00083** | **-.00245** | **.01508** | **.00017** | **.00009** | **.00110** | **-.00002** | **.00039** | **-.01101** | **.00041** |
| Stddev | .00123 | .00116 | .00019 | .03832 | .00070 | .00006 | .00057 | .00025 | .00021 | .02422 | .00021 |
| %RSD | 5.0468 | 139.59 | 7.8245 | 254.13 | 419.04 | 66.569 | 52.010 | 1226.0 | 53.142 | 219.90 | 50.527 |
| #1 | .02347 | -.00001 | -.00232 | .04217 | .00066 | .00014 | .00070 | .00016 | .00024 | .00611 | .00056 |
| #2 | .02521 | -.00165 | -.00259 | -.01202 | -.00033 | .00005 | .00151 | -.00020 | .00054 | -.02814 | .00027 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00361** | **-.00143** |
| Stddev | .00002 | .00079 |
| %RSD | .56358 | 55.425 |
| #1 | .00363 | -.00199 |
| #2 | .00360 | -.00087 |
| Check ? | Chk Pass | Chk Pass |
| High Limit | | |
| Low Limit | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5419.5** | **72448.** | **3848.1** |
| Stddev | 7.9 | 130. | 41.4 |
| %RSD | .14550 | .17893 | 1.0770 |
| #1 | 5425.1 | 72356. | 3818.8 |
| #2 | 5413.9 | 72539. | 3877.4 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 23:04:41 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01051** | **.11647** | **.01519** | **.10463** | F **.01300** | **.00104** | **.11423** | F **.26494** | **.00594** | **.01145** | **.01102** |
| Stddev | .00040 | .00096 | .00446 | .00047 | .00010 | .00005 | .00072 | .00262 | .00016 | .00002 | .00050 |
| %RSD | 3.7628 | .82669 | 29.350 | .45179 | .78493 | 5.1465 | .62975 | .98905 | 2.6356 | .13766 | 4.5217 |
| #1 | .01023 | .11715 | .01835 | .10496 | .01307 | .00100 | .11474 | .26680 | .00582 | .01144 | .01138 |
| #2 | .01079 | .11579 | .01204 | .10429 | .01293 | .00108 | .11372 | .26309 | .00605 | .01146 | .01067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | | | .20000 | | | |
| Range | | | | | 30.000% | | | 30.000% | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01706** | **.11222** | F **4.0124** | F **.01345** | **.23228** | **.01184** | **.02127** | F **1.7688** | **.04473** | **3.0289** | W **.01097** |
| Stddev | .00013 | .00313 | .0098 | .00100 | .00029 | .00037 | .00005 | .0010 | .00059 | .0251 | .00022 |
| %RSD | .74833 | 2.7884 | .24487 | 7.4571 | .12460 | 3.1640 | .24145 | .05394 | 1.3285 | .82986 | 2.0141 |
| #1 | .01697 | .11444 | 4.0055 | .01416 | .23248 | .01158 | .02131 | 1.7682 | .04515 | 3.0467 | .01113 |
| #2 | .01715 | .11001 | 4.0194 | .01274 | .23207 | .01211 | .02123 | 1.7695 | .04431 | 3.0111 | .01082 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| Value | | | 3.0000 | .01000 | | | | 1.0000 | | | .00900 |
| Range | | | 30.000% | 30.000% | | | | 30.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03076** | **.00874** | **.01522** | **.49668** | F **.14235** | **.01077** | **.01515** | **.01096** | **.01704** | **.07083** | **.01128** |
| Stddev | .00288 | .00148 | .00351 | .00276 | .00182 | .00022 | .00226 | .00001 | .00011 | .01200 | .00001 |
| %RSD | 9.3580 | 16.910 | 23.068 | .55504 | 1.2796 | 2.0500 | 14.919 | .07691 | .63239 | 16.943 | .04710 |
| #1 | .03280 | .00979 | .01274 | .49863 | .14364 | .01092 | .01355 | .01096 | .01697 | .06234 | .01128 |
| #2 | .02873 | .00770 | .01770 | .49473 | .14106 | .01061 | .01674 | .01097 | .01712 | .07931 | .01128 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .10000 | | | | | | |
| Range | | | | | 30.000% | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | F **.02972** | **.01299** |
| Stddev | .00085 | .00390 |
| %RSD | 2.8635 | 29.999 |
| #1 | .02912 | .01575 |
| #2 | .03032 | .01024 |
| Check ? | Chk Fail | Chk Pass |
| Value | .02000 | |
| Range | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5471.0** | **71904.** | **3898.2** |
| Stddev | 23.9 | 406. | 21.8 |
| %RSD | .43678 | .56468 | .55812 |
| #1 | 5454.1 | 72191. | 3913.6 |
| #2 | 5487.9 | 71617. | 3882.8 |

Sample Name: 280-42134-A-12-E Acquired: 5/21/2013 23:07:07 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00140** | **.08540** | **-.00791** | **.47974** | **.13905** | **-.00039** | **-.00628** | W **1064.2** | **.00024** |
| Stddev | .00109 | .00115 | .00032 | .00183 | .00074 | .00004 | .00037 | 9.8 | .00024 |
| %RSD | 78.000 | 1.3518 | 4.0347 | .38218 | .53135 | 9.8218 | 5.8604 | .92071 | 99.539 |
| #1 | -.00063 | .08622 | -.00768 | .48104 | .13958 | -.00037 | -.00602 | 1057.3 | .00007 |
| #2 | -.00217 | .08459 | -.00814 | .47845 | .13853 | -.00042 | -.00654 | 1071.2 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02656** | **.00066** | **.00214** | **22.365** | **9.9893** | **.02067** | **27.181** | **3.6779** | **-.00033** |
| Stddev | .00035 | .00007 | .00001 | .040 | .0330 | .00408 | .427 | .0567 | .00007 |
| %RSD | 1.3277 | 10.543 | .69453 | .17794 | .33063 | 19.726 | 1.5713 | 1.5414 | 20.050 |
| #1 | .02681 | .00070 | .00215 | 22.336 | 9.9660 | .01779 | 26.879 | 3.6378 | -.00038 |
| #2 | .02631 | .00061 | .00213 | 22.393 | 10.013 | .02356 | 27.483 | 3.7180 | -.00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.567** | **.20344** | **-.00157** | **.00344** | **63.798** | **.00174** | **.00284** | **6.7502** | **.00054** |
| Stddev | .355 | .00145 | .00421 | .00125 | .432 | .00147 | .00253 | .0413 | .00025 |
| %RSD | 1.2874 | .71219 | 267.60 | 36.240 | .67734 | 84.396 | 89.083 | .61213 | 45.784 |
| #1 | 27.316 | .20446 | -.00455 | .00432 | 64.104 | .00278 | .00463 | 6.7794 | .00072 |
| #2 | 27.818 | .20241 | .00140 | .00256 | 63.493 | .00070 | .00105 | 6.7210 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.69944** | **.00594** | **.00635** | **-.00225** | **-.03771** | **.00035** | F **112.76** | **-.00288** |
| Stddev | .00155 | .00035 | .00004 | .00058 | .02438 | .00042 | 1.45 | .00208 |
| %RSD | .22223 | 5.8421 | .67041 | 25.782 | 64.648 | 121.97 | 1.2900 | 72.259 |
| #1 | .70054 | .00570 | .00632 | -.00266 | -.05494 | .00005 | 111.73 | -.00141 |
| #2 | .69834 | .00619 | .00638 | -.00184 | -.02047 | .00065 | 113.79 | -.00435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | 50.000 | |
| Low Limit | | | | | | | -.02000 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5176.9** | **69578.** | **3897.0** |
| Stddev | 24.9 | 776. | 6.9 |
| %RSD | .48029 | 1.1155 | .17726 |
| #1 | 5159.3 | 70127. | 3901.9 |
| #2 | 5194.5 | 69030. | 3892.1 |

Sample Name: 280-42134-A-13-E Acquired: 5/21/2013 23:10:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00172** | **.00111** | **-.00635** | **.03096** | **.18412** | **-.00035** | **-.00838** | W **634.13** | **.00046** |
| Stddev | .00054 | .00011 | .00028 | .00028 | .00027 | .00005 | .00083 | 3.35 | .00004 |
| %RSD | 31.181 | 9.5730 | 4.3370 | .90563 | .14734 | 13.769 | 9.9546 | .52848 | 9.1605 |
| #1 | -.00210 | .00118 | -.00654 | .03116 | .18431 | -.00032 | -.00779 | 636.50 | .00043 |
| #2 | -.00134 | .00103 | -.00616 | .03076 | .18393 | -.00038 | -.00897 | 631.76 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **.00216** | **.04382** | **.01230** | **5.1939** | **.01375** | **332.41** | **.00028** | **.00033** |
| Stddev | .00039 | .00013 | .00119 | .00072 | .0316 | .00181 | .32 | .00001 | .00055 |
| %RSD | 58.868 | 6.1784 | 2.7261 | 5.8841 | .60826 | 13.156 | .09644 | 3.0619 | 168.92 |
| #1 | .00095 | .00226 | .04466 | .01282 | 5.2162 | .01503 | 332.64 | .00027 | -.00006 |
| #2 | .00039 | .00207 | .04297 | .01179 | 5.1715 | .01247 | 332.18 | .00029 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.972** | **.03798** | **.05465** | **.00492** | **83.700** | **.00284** | **.00783** | **.12087** | **.00016** |
| Stddev | .356 | .00030 | .00121 | .00116 | .174 | .00114 | .00073 | .00934 | .00004 |
| %RSD | .71235 | .78448 | 2.2217 | 23.643 | .20747 | 40.150 | 9.2977 | 7.7277 | 26.732 |
| #1 | 50.224 | .03819 | .05380 | .00410 | 83.577 | .00204 | .00834 | .12748 | .00013 |
| #2 | 49.721 | .03777 | .05551 | .00574 | 83.822 | .00365 | .00731 | .11427 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48095** | **.00106** | **.00171** | **.00031** | **.01302** | **.00230** | **.00727** | **-.00034** |
| Stddev | .00234 | .00083 | .00012 | .00196 | .00090 | .00067 | .00043 | .00179 |
| %RSD | .48754 | 78.383 | 6.9490 | 643.02 | 6.8905 | 28.991 | 5.9203 | 524.97 |
| #1 | .48261 | .00047 | .00180 | .00169 | .01239 | .00278 | .00757 | -.00160 |
| #2 | .47929 | .00165 | .00163 | -.00108 | .01365 | .00183 | .00696 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4943.9** | **67372.** | **3821.8** |
| Stddev | .6 | 169. | 36.4 |
| %RSD | .01182 | .25012 | .95122 |
| #1 | 4944.3 | 67253. | 3796.1 |
| #2 | 4943.4 | 67491. | 3847.5 |

Sample Name: 280-42134-A-14-E  Acquired: 5/21/2013 23:13:26  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00150** | **.02561** | **-.00271** | **.41732** | **.23537** | **-.00038** | **-.00757** | W **1260.9** | **-.00049** |
| Stddev | .00051 | .00069 | .00441 | .00028 | .00017 | .00017 | .00225 | .2 | .00033 |
| %RSD | 34.063 | 2.6947 | 162.82 | .06828 | .07228 | 43.917 | 29.678 | .01762 | 66.301 |
| #1 | -.00114 | .02610 | -.00583 | .41752 | .23549 | -.00050 | -.00916 | 1260.7 | -.00026 |
| #2 | -.00186 | .02512 | .00041 | .41712 | .23525 | -.00026 | -.00598 | 1261.1 | -.00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.00451** | **.00212** | **.01620** | **36.663** | **.03572** | **.08394** | **.00038** | **.01453** |
| Stddev | .00017 | .00008 | .00068 | .00223 | .124 | .00014 | .00024 | .00003 | .00028 |
| %RSD | 31.658 | 1.8272 | 32.245 | 13.751 | .33799 | .39701 | .28399 | 8.2370 | 1.8932 |
| #1 | .00042 | .00457 | .00164 | .01777 | 36.575 | .03562 | .08410 | .00036 | .01434 |
| #2 | .00066 | .00445 | .00260 | .01462 | 36.750 | .03582 | .08377 | .00041 | .01473 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **80.994** | **.01747** | **.03528** | **-.00068** | **74.271** | **.00401** | **.01248** | **.64629** | **.00034** |
| Stddev | .301 | .00005 | .00626 | .00078 | .158 | .00223 | .00053 | .02598 | .00024 |
| %RSD | .37221 | .31171 | 17.754 | 115.56 | .21234 | 55.611 | 4.2784 | 4.0202 | 69.323 |
| #1 | 81.207 | .01744 | .03085 | -.00123 | 74.383 | .00243 | .01210 | .66467 | .00051 |
| #2 | 80.781 | .01751 | .03971 | -.00012 | 74.160 | .00559 | .01285 | .62792 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86670** | **.00103** | **.00694** | **-.00119** | **-.01297** | **.00263** | **.00622** | **-.00279** |
| Stddev | .00048 | .00232 | .00036 | .00218 | .00336 | .00001 | .00010 | .00204 |
| %RSD | .05507 | 224.49 | 5.2266 | 182.42 | 25.927 | .35056 | 1.6642 | 72.978 |
| #1 | .86636 | -.00061 | .00668 | .00035 | -.01534 | .00264 | .00629 | -.00135 |
| #2 | .86704 | .00267 | .00720 | -.00273 | -.01059 | .00262 | .00614 | -.00423 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4882.9** | **66121.** | **3671.0** |
| Stddev | 3.1 | 15. | 2.6 |
| %RSD | .06347 | .02314 | .07153 |
| #1 | 4880.7 | 66132. | 3669.1 |
| #2 | 4885.1 | 66111. | 3672.9 |

Sample Name: 280-42134-A-15-E Acquired: 5/21/2013 23:16:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00130** | **-.00133** | **.04019** | **.10676** | **-.00018** | **-.00113** | **149.71** | **.00066** |
| Stddev | .00016 | .00025 | .00122 | .00046 | .00215 | .00008 | .00260 | 2.34 | .00003 |
| %RSD | 243.20 | 19.132 | 91.823 | 1.1531 | 2.0134 | 46.320 | 231.13 | 1.5615 | 4.3793 |
| #1 | -.00018 | .00113 | -.00047 | .04052 | .10524 | -.00024 | .00071 | 148.05 | .00068 |
| #2 | .00005 | .00148 | -.00219 | .03986 | .10828 | -.00012 | -.00297 | 151.36 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00167** | **.00011** | **.00422** | **3.5083** | **.00383** | W **700.21** | **.00014** | **-.00019** |
| Stddev | .00027 | .00028 | .00033 | .00187 | .0116 | .00289 | 12.04 | .00001 | .00037 |
| %RSD | 728.40 | 16.928 | 291.25 | 44.398 | .33119 | 75.476 | 1.7198 | 8.1598 | 195.78 |
| #1 | -.00016 | .00147 | .00035 | .00289 | 3.5165 | .00587 | 691.70 | .00014 | -.00045 |
| #2 | .00023 | .00187 | -.00012 | .00554 | 3.5001 | .00178 | 708.73 | .00015 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | 500.00 | | |
| Low Limit | | | | | | | -.10000 | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.219** | **-.00034** | **-.00170** | **.00292** | **11.654** | **.00297** | **.00524** | **.00694** | **-.00061** |
| Stddev | .508 | .00010 | .00129 | .00026 | .046 | .00046 | .00100 | .00262 | .00020 |
| %RSD | 2.5113 | 28.734 | 75.880 | 8.9805 | .39807 | 15.529 | 19.052 | 37.708 | 33.528 |
| #1 | 19.860 | -.00041 | -.00079 | .00311 | 11.687 | .00330 | .00594 | .00509 | -.00075 |
| #2 | 20.578 | -.00027 | -.00262 | .00274 | 11.622 | .00265 | .00453 | .00879 | -.00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25741** | **.00100** | **-.00465** | **-.00068** | **.01384** | **.00220** | **.00318** | **-.00248** |
| Stddev | .00384 | .00209 | .00009 | .00062 | .03449 | .00029 | .00143 | .00016 |
| %RSD | 1.4911 | 210.01 | 2.0295 | 90.326 | 249.14 | 13.335 | 45.056 | 6.5844 |
| #1 | .25469 | -.00048 | -.00459 | -.00112 | -.01055 | .00199 | .00420 | -.00259 |
| #2 | .26012 | .00248 | -.00472 | -.00025 | .03823 | .00241 | .00217 | -.00236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5126.9** | **72704.** | **3732.0** |
| Stddev | 114.9 | 1948. | 2.8 |
| %RSD | 2.2408 | 2.6786 | .07568 |
| #1 | 5208.2 | 71327. | 3734.0 |
| #2 | 5045.7 | 74081. | 3730.0 |

Sample Name: 280-42134-A-19-E Acquired: 5/21/2013 23:19:34 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00080** | **.00156** | **-.00595** | **.02435** | **.13193** | **-.00030** | **-.00772** | W **612.12** | **.00034** |
| Stddev | .00066 | .00018 | .00092 | .00042 | .00054 | .00021 | .00075 | 3.59 | .00009 |
| %RSD | 82.639 | 11.696 | 15.522 | 1.7426 | .40689 | 68.287 | 9.6827 | .58630 | 27.583 |
| #1 | -.00127 | .00143 | -.00660 | .02465 | .13231 | -.00016 | -.00825 | 609.58 | .00041 |
| #2 | -.00033 | .00169 | -.00530 | .02405 | .13155 | -.00045 | -.00719 | 614.66 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00310** | **.00017** | **.00494** | **5.9688** | **.02027** | **369.78** | **.00009** | **-.00025** |
| Stddev | .00017 | .00022 | .00004 | .00034 | .0409 | .00122 | .09 | .00010 | .00007 |
| %RSD | 303.07 | 7.0057 | 24.798 | 6.7897 | .68551 | 6.0251 | .02566 | 110.41 | 27.111 |
| #1 | .00017 | .00294 | .00020 | .00518 | 5.9398 | .01941 | 369.71 | .00016 | -.00020 |
| #2 | -.00006 | .00325 | .00014 | .00471 | 5.9977 | .02113 | 369.84 | .00002 | -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **382.45** | **-.00051** | **.15684** | **.00230** | **70.135** | **.00924** | **.00602** | **.02591** | **.00064** |
| Stddev | 1.44 | .00010 | .00929 | .00026 | .017 | .00313 | .00203 | .01554 | .00043 |
| %RSD | .37766 | 19.273 | 5.9237 | 11.252 | .02392 | 33.846 | 33.701 | 59.982 | 67.288 |
| #1 | 381.43 | -.00057 | .15027 | .00212 | 70.146 | .01145 | .00459 | .01492 | .00095 |
| #2 | 383.47 | -.00044 | .16341 | .00249 | 70.123 | .00703 | .00746 | .03691 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.47520** | **-.00196** | **.00108** | **-.00215** | **.02429** | **.00177** | **.00376** | **-.00438** |
| Stddev | .00224 | .00232 | .00057 | .00084 | .01787 | .00002 | .00004 | .00170 |
| %RSD | .47127 | 117.87 | 52.582 | 38.889 | 73.571 | 1.3898 | 1.0928 | 38.743 |
| #1 | .47362 | -.00360 | .00068 | -.00156 | .03692 | .00175 | .00379 | -.00558 |
| #2 | .47678 | -.00033 | .00148 | -.00274 | .01165 | .00179 | .00373 | -.00318 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4873.6** | **65756.** | **3707.5** |
| Stddev | 17.2 | 374. | 16.3 |
| %RSD | .35345 | .56835 | .44055 |
| #1 | 4861.4 | 65492. | 3719.0 |
| #2 | 4885.7 | 66021. | 3695.9 |

Sample Name: 280-42134-A-20-G  Acquired: 5/21/2013 23:22:45  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00115** | **.00476** | **-.00939** | **.22942** | **.22641** | **-.00050** | **-.00759** | W **1293.3** | **-.00035** |
| Stddev | .00003 | .00042 | .00083 | .00021 | .00070 | .00020 | .00105 | 4.5 | .00009 |
| %RSD | 2.6935 | 8.8197 | 8.7920 | .09117 | .30957 | 40.746 | 13.856 | .34852 | 25.883 |
| #1 | -.00117 | .00505 | -.00881 | .22957 | .22591 | -.00035 | -.00833 | 1290.2 | -.00029 |
| #2 | -.00112 | .00446 | -.00998 | .22927 | .22691 | -.00064 | -.00685 | 1296.5 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **.00297** | **.00111** | **.00769** | **8.1524** | **.03443** | **.03950** | **.00016** | **.01170** |
| Stddev | .00009 | .00022 | .00057 | .00011 | .0233 | .00343 | .00232 | .00002 | .00008 |
| %RSD | 6.1429 | 7.2603 | 51.435 | 1.4317 | .28593 | 9.9619 | 5.8657 | 9.6681 | .68611 |
| #1 | .00134 | .00282 | .00151 | .00777 | 8.1689 | .03201 | .04114 | .00018 | .01164 |
| #2 | .00146 | .00312 | .00070 | .00762 | 8.1359 | .03686 | .03787 | .00015 | .01175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **82.739** | **-.00065** | **.01978** | **.00126** | **77.038** | **.00565** | **.01163** | **.22518** | **-.00038** |
| Stddev | .061 | .00015 | .00736 | .00045 | .040 | .00199 | .00373 | .03051 | .00048 |
| %RSD | .07336 | 22.470 | 37.192 | 35.861 | .05145 | 35.216 | 32.088 | 13.548 | 125.97 |
| #1 | 82.696 | -.00076 | .02498 | .00158 | 77.066 | .00425 | .01427 | .24675 | -.00073 |
| #2 | 82.782 | -.00055 | .01458 | .00094 | 77.010 | .00706 | .00899 | .20361 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3549** | **-.00052** | **.00704** | **-.00237** | **-.04068** | **.00126** | **.00359** | **-.00350** |
| Stddev | .0024 | .00386 | .00048 | .00141 | .00588 | .00009 | .00011 | .00152 |
| %RSD | .17869 | 746.37 | 6.8490 | 59.431 | 14.458 | 7.5295 | 3.1379 | 43.454 |
| #1 | 1.3532 | .00221 | .00738 | -.00138 | -.04484 | .00119 | .00351 | -.00457 |
| #2 | 1.3566 | -.00325 | .00670 | -.00337 | -.03652 | .00132 | .00367 | -.00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4982.2** | **67600.** | **3855.7** |
| Stddev | 11.1 | 167. | 11.2 |
| %RSD | .22348 | .24661 | .28968 |
| #1 | 4990.0 | 67482. | 3863.6 |
| #2 | 4974.3 | 67717. | 3847.8 |

Sample Name: sd 42134-A-20-G@5 Acquired: 5/21/2013 23:25:49 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00203** | **.00268** | **-.00164** | **.05084** | **.04709** | **-.00013** | **-.00011** | **272.85** | **-.00001** |
| Stddev | .00029 | .00087 | .00062 | .00040 | .00042 | .00013 | .00316 | 1.93 | .00011 |
| %RSD | 14.143 | 32.302 | 37.599 | .79372 | .88371 | 100.66 | 2931.3 | .70892 | 1035.2 |
| #1 | -.00223 | .00207 | -.00208 | .05113 | .04679 | -.00022 | .00213 | 271.48 | -.00009 |
| #2 | -.00182 | .00330 | -.00121 | .05056 | .04738 | -.00004 | -.00234 | 274.22 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00079** | **-.00040** | **.01052** | **1.7371** | **.00272** | **.00953** | **.00015** | **.00218** |
| Stddev | .00004 | .00017 | .00015 | .00183 | .0327 | .00163 | .00157 | .00004 | .00006 |
| %RSD | 376.58 | 21.225 | 36.063 | 17.374 | 1.8817 | 60.040 | 16.429 | 27.088 | 2.7640 |
| #1 | -.00004 | .00067 | -.00030 | .01181 | 1.7602 | .00157 | .00842 | .00018 | .00222 |
| #2 | .00002 | .00091 | -.00051 | .00922 | 1.7140 | .00387 | .01063 | .00012 | .00214 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **16.199** | **-.00063** | **.00779** | **.00285** | **15.165** | **.00004** | **-.00045** | **.05100** | **-.00030** |
| Stddev | 1.258 | .00036 | .00313 | .00337 | .067 | .00113 | .00441 | .00399 | .00080 |
| %RSD | 7.7662 | 57.998 | 40.126 | 118.01 | .44205 | 3177.8 | 977.52 | 7.8245 | 261.78 |
| #1 | 15.309 | -.00037 | .01000 | .00523 | 15.212 | .00083 | -.00357 | .04818 | .00026 |
| #2 | 17.089 | -.00088 | .00558 | .00047 | 15.118 | -.00076 | .00267 | .05382 | -.00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27369** | **.00176** | **.00126** | **.00082** | **-.00311** | **.00031** | **.00396** | **-.00372** |
| Stddev | .00130 | .00122 | .00010 | .00037 | .04201 | .00021 | .00005 | .00074 |
| %RSD | .47472 | 69.431 | 7.6653 | 45.439 | 1351.6 | 67.939 | 1.1475 | 20.006 |
| #1 | .27277 | .00090 | .00133 | .00108 | .02660 | .00016 | .00399 | -.00425 |
| #2 | .27461 | .00262 | .00120 | .00056 | -.03282 | .00046 | .00392 | -.00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5174.4** | **69991.** | **3762.6** |
| Stddev | 19.9 | 170. | 17.8 |
| %RSD | .38466 | .24246 | .47341 |
| #1 | 5188.5 | 70111. | 3775.2 |
| #2 | 5160.3 | 69871. | 3750.0 |

Sample Name: 280-42134-A-20-H MS Acquired: 5/21/2013 23:28:15 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.20697** | **.37884** | **.80197** | **.40497** | **2.7210** | **.00819** | **.37135** | W **1219.4** | **.21635** |
| Stddev | .00085 | .00104 | .00244 | .00204 | .0030 | .00002 | .00524 | 34.9 | .00127 |
| %RSD | .41109 | .27462 | .30437 | .50287 | .11145 | .24094 | 1.4120 | 2.8605 | .58566 |
| #1 | .20757 | .37811 | .80025 | .40353 | 2.7189 | .00820 | .36764 | 1244.0 | .21545 |
| #2 | .20637 | .37958 | .80370 | .40641 | 2.7232 | .00818 | .37505 | 1194.7 | .21724 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .10000 | | | | | | | 500.00 | |
| Low Limit | -.01000 | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09276** | **1.0130** | **.41913** | **.17150** | **18.952** | **.26121** | **9.1550** | **.09785** | **.20739** |
| Stddev | .00015 | .0001 | .00117 | .00301 | .055 | .00407 | .0287 | .00043 | .00084 |
| %RSD | .16406 | .00445 | .27807 | 1.7548 | .28798 | 1.5576 | .31359 | .44005 | .40520 |
| #1 | .09265 | 1.0131 | .41831 | .17363 | 18.913 | .26408 | 9.1347 | .09755 | .20680 |
| #2 | .09287 | 1.0130 | .41995 | .16938 | 18.991 | .25833 | 9.1753 | .09815 | .20799 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **87.829** | **.08865** | **2.0043** | **.97983** | **76.121** | **.10496** | **.59020** | **2.0927** | **.37920** |
| Stddev | .623 | .00027 | .0123 | .00239 | .115 | .00385 | .00515 | .0008 | .00231 |
| %RSD | .70887 | .30264 | .61458 | .24381 | .15123 | 3.6644 | .87255 | .03748 | .60866 |
| #1 | 88.269 | .08847 | 1.9956 | .97814 | 76.039 | .10768 | .58656 | 2.0922 | .37757 |
| #2 | 87.388 | .08884 | 2.0130 | .98152 | 76.202 | .10224 | .59384 | 2.0933 | .38084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4540** | **.20075** | **.20816** | **.35908** | **.37629** | **.09850** | **.47319** | **.09442** |
| Stddev | .0013 | .00572 | .00076 | .00015 | .02895 | .00112 | .00118 | .00003 |
| %RSD | .09041 | 2.8470 | .36393 | .04083 | 7.6939 | 1.1350 | .24938 | .02734 |
| #1 | 1.4550 | .19671 | .20763 | .35898 | .39677 | .09771 | .47235 | .09444 |
| #2 | 1.4531 | .20479 | .20870 | .35918 | .35582 | .09929 | .47402 | .09440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4942.2** | **66297.** | **3727.6** |
| Stddev | 12.8 | 337. | 24.9 |
| %RSD | .25817 | .50808 | .66772 |
| #1 | 4933.2 | 66535. | 3710.0 |
| #2 | 4951.2 | 66059. | 3745.2 |

Sample Name: 280-42134-A-20-I MSD Acquired: 5/21/2013 23:31:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175103 6010b

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.19755** | **.37153** | **.78388** | **.39568** | **2.6357** | **.00798** | **.36175** | W **1199.0** | **.20926** |
| Stddev | .00017 | .00951 | .01234 | .00620 | .0030 | .00004 | .00529 | 4.0 | .00249 |
| %RSD | .08476 | 2.5590 | 1.5741 | 1.5658 | .11313 | .45918 | 1.4621 | .33547 | 1.1893 |
| #1 | .19767 | .36481 | .77515 | .39130 | 2.6378 | .00801 | .35801 | 1201.8 | .20750 |
| #2 | .19743 | .37826 | .79260 | .40006 | 2.6336 | .00795 | .36549 | 1196.1 | .21102 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .10000 | | | | | | | 500.00 | |
| Low Limit | -.01000 | | | | | | | -.05000 | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08948** | **.99329** | **.39935** | **.16542** | **18.366** | **.25191** | **8.8557** | **.09462** | **.20351** |
| Stddev | .00150 | .02071 | .00022 | .00287 | .015 | .00108 | .0036 | .00019 | .00216 |
| %RSD | 1.6734 | 2.0846 | .05467 | 1.7335 | .08080 | .42818 | .04038 | .19715 | 1.0634 |
| #1 | .08842 | .97865 | .39951 | .16339 | 18.377 | .25267 | 8.8582 | .09449 | .20198 |
| #2 | .09054 | 1.0079 | .39920 | .16745 | 18.356 | .25114 | 8.8531 | .09475 | .20504 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **84.926** | **.08631** | **1.9595** | **.95969** | **74.211** | **.10379** | **.57138** | **2.0233** | **.37245** |
| Stddev | .286 | .00123 | .0333 | .01975 | 1.500 | .00325 | .00322 | .0259 | .00748 |
| %RSD | .33685 | 1.4301 | 1.6981 | 2.0577 | 2.0214 | 3.1268 | .56280 | 1.2801 | 2.0091 |
| #1 | 85.128 | .08544 | 1.9359 | .94573 | 73.150 | .10150 | .56911 | 2.0050 | .36716 |
| #2 | 84.723 | .08718 | 1.9830 | .97366 | 75.272 | .10609 | .57366 | 2.0417 | .37775 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4080** | **.19129** | **.20100** | **.35194** | **.36510** | **.09508** | **.45473** | **.08878** |
| Stddev | .0033 | .00201 | .00011 | .00562 | .00504 | .00040 | .00124 | .00059 |
| %RSD | .23536 | 1.0519 | .05280 | 1.5969 | 1.3792 | .42571 | .27202 | .66542 |
| #1 | 1.4103 | .18987 | .20092 | .34797 | .36154 | .09479 | .45561 | .08836 |
| #2 | 1.4056 | .19271 | .20107 | .35591 | .36866 | .09536 | .45386 | .08920 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4920.9** | **67027.** | **3767.9** |
| Stddev | 77.6 | 107. | 2.7 |
| %RSD | 1.5778 | .15895 | .07049 |
| #1 | 4975.8 | 67102. | 3766.0 |
| #2 | 4866.0 | 66952. | 3769.7 |

Sample Name: CCVH-2058327 Acquired: 5/21/2013 23:34:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00193** | **48.836** | **-.00057** | **.00702** | **.00201** | **-.00019** | **.99378** | **.04986** | **-.00079** | **.00165** | **-.00016** | **.00223** |
| Stddev | .00018 | .110 | .00212 | .00054 | .00033 | .00030 | .00456 | .00642 | .00012 | .00015 | .00029 | .00025 |
| %RSD | 9.5507 | .22561 | 369.93 | 7.6570 | 16.449 | 153.73 | .45894 | 12.871 | 14.928 | 8.9797 | 178.98 | 11.000 |
| #1 | .00180 | 48.914 | .00093 | .00664 | .00178 | -.00041 | .99055 | .04532 | -.00071 | .00176 | .00004 | .00240 |
| #2 | .00206 | 48.758 | -.00208 | .00740 | .00224 | .00002 | .99700 | .05440 | -.00087 | .00155 | -.00037 | .00206 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.514** | **.17414** | **-.00235** | **-.00675** | **-.00064** | **-.00174** | F **282.93** | **.00092** | **.00419** | **.00087** | **4.8803** | **-.00144** |
| Stddev | .255 | .03089 | .00275 | .00052 | .00003 | .00018 | 1.76 | .00014 | .00015 | .00175 | .0196 | .00191 |
| %RSD | .54916 | 17.740 | 116.83 | 7.7574 | 5.1543 | 10.269 | .62171 | 14.749 | 3.5037 | 200.78 | .40190 | 132.81 |
| #1 | 46.694 | .15230 | -.00041 | -.00638 | -.00067 | -.00186 | 284.17 | .00102 | .00409 | .00211 | 4.8665 | -.00009 |
| #2 | 46.333 | .19598 | -.00430 | -.00712 | -.00062 | -.00161 | 281.69 | .00083 | .00430 | -.00037 | 4.8942 | -.00279 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00136** | **.01250** | **.00106** | **.00017** | **5.0944** | **.00212** | **-.00136** | **10.066** | **.00061** | **.00303** | **-.03976** |
| Stddev | .00115 | .00334 | .00054 | .00000 | .0126 | .00001 | .00113 | .060 | .00024 | .00079 | .00058 |
| %RSD | 84.732 | 26.752 | 50.865 | 2.8469 | .24663 | .32416 | 83.640 | .60097 | 39.114 | 25.965 | 1.4569 |
| #1 | .00055 | .01013 | .00144 | .00017 | 5.0855 | .00212 | -.00216 | 10.023 | .00044 | .00248 | -.03935 |
| #2 | .00218 | .01486 | .00068 | .00016 | 5.1033 | .00213 | -.00055 | 10.108 | .00077 | .00359 | -.04017 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5377.0** | **70484.** | **3804.1** |
| Stddev | 5.6 | 160. | .1 |
| %RSD | .10472 | .22672 | .00307 |
| #1 | 5373.0 | 70371. | 3804.0 |
| #2 | 5381.0 | 70597. | 3804.2 |

Sample Name: CCV-2058325 Acquired: 5/21/2013 23:36:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51693** | **.50720** | **.99012** | **.49653** | **.52924** | **.46443** | **-.00128** | **4.8518** | **.51041** | **.51522** | **.50409** | **.50098** |
| Stddev | .00051 | .00085 | .00411 | .00486 | .00169 | .00338 | .00206 | .0434 | .00156 | .00025 | .00199 | .00116 |
| %RSD | .09863 | .16784 | .41470 | .97868 | .32015 | .72692 | 160.82 | .89398 | .30611 | .04871 | .39460 | .23175 |
| #1 | .51729 | .50780 | .99302 | .49996 | .53043 | .46681 | -.00274 | 4.8825 | .51151 | .51540 | .50550 | .50180 |
| #2 | .51657 | .50659 | .98722 | .49309 | .52804 | .46204 | .00018 | 4.8212 | .50930 | .51505 | .50268 | .50016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2770** | F **56.076** | F **1.1367** | **20.476** | **.51676** | **.50284** | F **5.9442** | **.51216** | **.98182** | **1.0273** | **.01739** | **.99618** |
| Stddev | .0224 | .193 | .0102 | .010 | .00003 | .00511 | .0552 | .00394 | .00267 | .0121 | .00095 | .00394 |
| %RSD | .98519 | .34382 | .89549 | .05002 | .00589 | 1.0172 | .92816 | .76963 | .27243 | 1.1743 | 5.4726 | .39536 |
| #1 | 2.2929 | 56.212 | 1.1439 | 20.483 | .51674 | .50646 | 5.9832 | .51495 | .98372 | 1.0359 | .01672 | .99896 |
| #2 | 2.2612 | 55.939 | 1.1295 | 20.469 | .51678 | .49923 | 5.9052 | .50938 | .97993 | 1.0188 | .01806 | .99339 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97641** | **4.7148** | **1.0105** | **.49779** | **-.00088** | **.51570** | **1.0159** | **.02515** | **.50698** | **.52509** | **.49464** |
| Stddev | .00749 | .0757 | .0063 | .00305 | .00227 | .00128 | .0081 | .01950 | .00021 | .00101 | .01210 |
| %RSD | .76755 | 1.6053 | .62146 | .61273 | 256.46 | .24865 | .79501 | 77.526 | .04114 | .19199 | 2.4456 |
| #1 | .98171 | 4.7683 | 1.0150 | .49994 | .00072 | .51479 | 1.0216 | .01136 | .50683 | .52438 | .50319 |
| #2 | .97111 | 4.6613 | 1.0061 | .49563 | -.00249 | .51660 | 1.0102 | .03894 | .50713 | .52580 | .48609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5422.2** | **71430.** | **3859.4** |
| Stddev | 24.4 | 20. | 22.1 |
| %RSD | .45060 | .02864 | .57354 |
| #1 | 5405.0 | 71444. | 3843.7 |
| #2 | 5439.5 | 71415. | 3875.0 |

Sample Name: CCB Acquired: 5/21/2013 23:38:51 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **-.00098** | **-.00027** | **.00144** | F **.00530** | F **.00162** | **.00017** | **-.00219** | **.00532** | **.00021** | **-.00011** | **-.00015** |
| Stddev | .00038 | .00013 | .00054 | .00003 | .00052 | .00003 | .00055 | .00084 | .00017 | .00017 | .00002 |
| %RSD | 38.331 | 49.176 | 37.334 | .52741 | 31.792 | 19.572 | 25.072 | 15.757 | 82.768 | 158.06 | 13.799 |
| #1 | -.00072 | -.00036 | .00106 | .00528 | .00126 | .00015 | -.00180 | .00592 | .00033 | -.00023 | -.00014 |
| #2 | -.00125 | -.00017 | .00182 | .00532 | .00198 | .00020 | -.00257 | .00473 | .00009 | .00001 | -.00017 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00093 | | | .00312 | .00115 | | | | | | |
| Low Limit | -.00093 | | | -.00312 | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00055** | **.00298** | **.13102** | **-.00242** | **.00256** | **.00006** | **.00030** | F **.38835** | **-.00020** | **.00066** | W **.00311** |
| Stddev | .00066 | .00078 | .02298 | .00006 | .00129 | .00005 | .00009 | .02150 | .00013 | .00067 | .00143 |
| %RSD | 121.02 | 26.245 | 17.542 | 2.4732 | 50.464 | 89.222 | 29.631 | 5.5349 | 64.680 | 101.77 | 45.893 |
| #1 | -.00008 | .00354 | .14727 | -.00238 | .00347 | .00009 | .00036 | .40355 | -.00011 | .00114 | .00210 |
| #2 | -.00101 | .00243 | .11477 | -.00247 | .00164 | .00002 | .00024 | .37315 | -.00029 | .00019 | .00411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | .10000 | | | .00261 |
| Low Limit | | | | | | | | -.10000 | | | -.00261 |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01596** | **.00120** | **-.00149** | **-.00602** | **.00018** | **.00010** | **-.00218** | **.00005** | **-.00057** | **.04232** | **.00017** |
| Stddev | .00151 | .00016 | .00212 | .00222 | .00062 | .00020 | .00230 | .00038 | .00113 | .03843 | .00002 |
| %RSD | 9.4567 | 13.611 | 142.53 | 36.923 | 339.12 | 195.69 | 105.18 | 721.41 | 196.99 | 90.794 | 12.325 |
| #1 | .01490 | .00132 | -.00298 | -.00759 | .00062 | -.00004 | -.00056 | .00032 | -.00137 | .01515 | .00018 |
| #2 | .01703 | .00109 | .00001 | -.00444 | -.00026 | .00025 | -.00381 | -.00022 | .00022 | .06949 | .00015 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00232** | W **-.00362** |
| Stddev | .00025 | .00248 |
| %RSD | 10.815 | 68.545 |
| #1 | .00214 | -.00538 |
| #2 | .00249 | -.00187 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5468.6** | **72731.** | **3878.2** |
| Stddev | .9 | 27. | 1.8 |
| %RSD | .01721 | .03749 | .04752 |
| #1 | 5469.3 | 72712. | 3879.5 |
| #2 | 5467.9 | 72750. | 3876.9 |

Sample Name: CCVL2062912 Acquired: 5/21/2013 23:41:20 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00986** | **.11117** | **.01625** | **.10418** | F **.01325** | **.00087** | **.11339** | **.21082** | **.00577** | **.01143** | **.01085** |
| Stddev | .00116 | .00084 | .00017 | .00056 | .00021 | .00016 | .00506 | .00464 | .00000 | .00029 | .00000 |
| %RSD | 11.790 | .75445 | 1.0747 | .54061 | 1.5763 | 17.947 | 4.4592 | 2.2005 | .00036 | 2.5366 | .00591 |
| #1 | .00904 | .11057 | .01612 | .10378 | .01339 | .00076 | .10982 | .20754 | .00577 | .01122 | .01085 |
| #2 | .01068 | .11176 | .01637 | .10458 | .01310 | .00098 | .11697 | .21410 | .00577 | .01163 | .01085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | | | | | | |
| Range | | | | | 30.000% | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01565** | **.10162** | W **3.7954** | F **.00628** | **.22223** | **.01130** | **.02094** | F **1.6207** | **.04439** | **2.9917** | F **.01182** |
| Stddev | .00028 | .00011 | .0441 | .00511 | .00228 | .00002 | .00006 | .0050 | .00020 | .0113 | .00095 |
| %RSD | 1.8072 | .11275 | 1.1621 | 81.348 | 1.0243 | .16083 | .26606 | .31107 | .44699 | .37624 | 8.0201 |
| #1 | .01585 | .10170 | 3.8266 | .00267 | .22384 | .01129 | .02090 | 1.6243 | .04425 | 2.9837 | .01249 |
| #2 | .01545 | .10154 | 3.7642 | .00989 | .22062 | .01131 | .02098 | 1.6172 | .04453 | 2.9996 | .01115 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| Value | | | 3.0000 | .01000 | | | | 1.0000 | | | .00900 |
| Range | | | 20.000% | -30.000% | | | | 30.000% | | | 30.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01951** | **.00974** | **.01368** | **.49053** | **.10680** | **.01083** | **.01333** | **.01063** | **.01677** | F **.08107** | **.01117** |
| Stddev | .00285 | .00137 | .00117 | .01903 | .00093 | .00009 | .00090 | .00006 | .00007 | .02497 | .00009 |
| %RSD | 14.616 | 14.024 | 8.5479 | 3.8796 | .86991 | .83066 | 6.7315 | .55613 | .40095 | 30.805 | .77853 |
| #1 | .02152 | .00877 | .01286 | .50398 | .10614 | .01090 | .01269 | .01067 | .01682 | .06341 | .01123 |
| #2 | .01749 | .01070 | .01451 | .47707 | .10746 | .01077 | .01396 | .01059 | .01672 | .09873 | .01111 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02542** | **.01239** |
| Stddev | .00053 | .00067 |
| %RSD | 2.0860 | 5.3734 |
| #1 | .02579 | .01192 |
| #2 | .02504 | .01286 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5473.3** | **73100.** | **3927.7** |
| Stddev | 1.9 | 235. | 5.5 |
| %RSD | .03480 | .32098 | .14054 |
| #1 | 5474.7 | 72934. | 3931.6 |
| #2 | 5472.0 | 73265. | 3923.8 |

Sample Name: MB 280-174916/1-B Acquired: 5/21/2013 23:43:46 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175102 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00059** | **.00173** | **.00103** | **.00499** | **.00126** | **-.00009** | **.00092** | **.00584** | **-.00003** |
| Stddev | .00065 | .00035 | .00054 | .00017 | .00047 | .00008 | .00123 | .00688 | .00029 |
| %RSD | 109.69 | 19.980 | 52.572 | 3.4082 | 37.338 | 91.160 | 133.99 | 117.76 | 881.35 |
| #1 | -.00104 | .00197 | .00065 | .00511 | .00093 | -.00003 | .00179 | .00098 | -.00024 |
| #2 | -.00013 | .00149 | .00141 | .00487 | .00159 | -.00015 | .00005 | .01070 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **-.00012** | **-.00024** | **.01303** | **.11575** | **-.00103** | **.00365** | **.00022** | **.00019** |
| Stddev | .00008 | .00000 | .00000 | .00134 | .08056 | .00118 | .00093 | .00003 | .00020 |
| %RSD | 114.04 | 1.9348 | .91010 | 10.269 | 69.596 | 114.14 | 25.372 | 12.058 | 106.48 |
| #1 | -.00013 | -.00011 | -.00024 | .01208 | .05879 | -.00020 | .00300 | .00020 | .00033 |
| #2 | -.00001 | -.00012 | -.00024 | .01397 | .17271 | -.00186 | .00431 | .00024 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38178** | **-.00080** | **.00124** | **.00104** | **.01465** | **.00136** | **-.00201** | **.00360** | **.00011** |
| Stddev | .00597 | .00010 | .00203 | .00067 | .00067 | .00134 | .00150 | .01933 | .00003 |
| %RSD | 1.5625 | 12.368 | 163.12 | 64.453 | 4.5915 | 98.767 | 74.566 | 537.18 | 26.440 |
| #1 | .38600 | -.00073 | .00268 | .00152 | .01513 | .00231 | -.00308 | -.01007 | .00009 |
| #2 | .37757 | -.00087 | -.00019 | .00057 | .01418 | .00041 | -.00095 | .01727 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **-.00205** | **-.00036** | **.00052** | **.03954** | **-.00006** | **.00254** | **.00018** |
| Stddev | .00009 | .00287 | .00038 | .00071 | .01981 | .00001 | .00000 | .00083 |
| %RSD | 115.06 | 140.08 | 105.39 | 136.00 | 50.105 | 9.1062 | .08805 | 452.42 |
| #1 | -.00001 | -.00002 | -.00009 | .00102 | .05354 | -.00006 | .00254 | -.00040 |
| #2 | -.00014 | -.00408 | -.00064 | .00002 | .02553 | -.00006 | .00254 | .00077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5584.9** | **74443.** | **3974.2** |
| Stddev | 34.4 | 147. | 37.6 |
| %RSD | .61625 | .19740 | .94535 |
| #1 | 5560.6 | 74547. | 4000.7 |
| #2 | 5609.3 | 74339. | 3947.6 |

Sample Name: LCS 280-174916/2-B Acquired: 5/21/2013 23:46:16 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175102 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05496** | **1.9790** | **.99557** | **1.0012** | **2.1528** | **.04728** | **2.0743** | **48.046** | **.10647** |
| Stddev | .00011 | .0010 | .00057 | .0005 | .0189 | .00011 | .0049 | .393 | .00001 |
| %RSD | .19110 | .05205 | .05742 | .05142 | .87880 | .24314 | .23636 | .81779 | .00556 |
| #1 | .05489 | 1.9783 | .99597 | 1.0008 | 2.1394 | .04720 | 2.0778 | 47.769 | .10647 |
| #2 | .05504 | 1.9797 | .99517 | 1.0016 | 2.1662 | .04736 | 2.0708 | 48.324 | .10646 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51206** | **.20387** | **.25294** | **.92786** | F **57.198** | **1.1374** | **51.125** | **.51331** | **1.0044** |
| Stddev | .00079 | .00052 | .00064 | .00174 | .610 | .0075 | .031 | .00006 | .0001 |
| %RSD | .15524 | .25487 | .25423 | .18752 | 1.0656 | .66213 | .05993 | .01075 | .01523 |
| #1 | .51262 | .20424 | .25339 | .92909 | 56.767 | 1.1321 | 51.103 | .51327 | 1.0043 |
| #2 | .51149 | .20351 | .25249 | .92663 | 57.629 | 1.1428 | 51.146 | .51335 | 1.0045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 57.000 | | | | |
| Low Limit | | | | | 44.500 | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **59.112** | **.50216** | **10.118** | **.51208** | **.00599** | **.50810** | **2.0051** | **9.5765** | **2.0042** |
| Stddev | .687 | .00021 | .005 | .00145 | .00344 | .00436 | .0114 | .1020 | .0057 |
| %RSD | 1.1627 | .04102 | .05023 | .28377 | 57.439 | .85757 | .56748 | 1.0649 | .28328 |
| #1 | 58.626 | .50231 | 10.122 | .51311 | .00842 | .51118 | 2.0131 | 9.5044 | 2.0082 |
| #2 | 59.598 | .50202 | 10.114 | .51105 | .00356 | .50502 | 1.9970 | 9.6486 | 2.0002 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 56.000 | | | | | | | | |
| Low Limit | 45.500 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0081** | **1.0268** | **1.0258** | **2.0381** | **2.1324** | **.51203** | **.52264** | **.48515** |
| Stddev | .0055 | .0050 | .0013 | .0092 | .0227 | .00064 | .00168 | .00531 |
| %RSD | .54913 | .48526 | .12612 | .45341 | 1.0628 | .12485 | .32198 | 1.0952 |
| #1 | 1.0042 | 1.0303 | 1.0249 | 2.0446 | 2.1163 | .51248 | .52383 | .48139 |
| #2 | 1.0120 | 1.0232 | 1.0268 | 2.0315 | 2.1484 | .51158 | .52145 | .48891 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5419.9** | **72111.** | **3964.3** |
| Stddev | 4.6 | 31. | 15.0 |
| %RSD | .08573 | .04282 | .37818 |
| #1 | 5416.6 | 72132. | 3974.9 |
| #2 | 5423.2 | 72089. | 3953.7 |

Sample Name: 280-42311-E-1-B Acquired: 5/21/2013 23:48:30 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175102 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00073** | **.00354** | **.00030** | **.01914** | **.03843** | **.00001** | **-.00229** | **26.059** | **.00001** |
| Stddev | .00027 | .00030 | .00114 | .00015 | .00047 | .00016 | .00315 | .178 | .00009 |
| %RSD | 36.964 | 8.4050 | 383.60 | .79319 | 1.2311 | 1543.7 | 137.34 | .68293 | 661.15 |
| #1 | -.00092 | .00375 | -.00051 | .01903 | .03876 | .00013 | -.00007 | 25.934 | .00008 |
| #2 | -.00054 | .00333 | .00110 | .01924 | .03809 | -.00011 | -.00452 | 26.185 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **-.00026** | **.00081** | **.03129** | **3.2354** | **.00273** | **7.5367** | **.04599** | **.00632** |
| Stddev | .00011 | .00029 | .00055 | .00192 | .0277 | .00154 | .0344 | .00020 | .00011 |
| %RSD | 116.36 | 112.00 | 68.834 | 6.1303 | .85583 | 56.272 | .45635 | .43786 | 1.7969 |
| #1 | -.00018 | -.00046 | .00041 | .02993 | 3.2550 | .00165 | 7.5124 | .04585 | .00624 |
| #2 | -.00002 | -.00005 | .00120 | .03264 | 3.2159 | .00382 | 7.5610 | .04614 | .00640 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.208** | **-.00022** | **.02379** | **.00054** | **15.954** | **.00152** | **.00040** | **1.5553** | **.00034** |
| Stddev | .070 | .00014 | .00248 | .00049 | .025 | .00145 | .00080 | .0102 | .00020 |
| %RSD | .34775 | 61.602 | 10.413 | 90.412 | .15414 | 95.479 | 199.80 | .65408 | 58.676 |
| #1 | 20.258 | -.00013 | .02554 | .00089 | 15.936 | .00049 | .00097 | 1.5481 | .00048 |
| #2 | 20.158 | -.00032 | .02204 | .00020 | 15.971 | .00255 | -.00017 | 1.5625 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21788** | **.00080** | **.00016** | **.00075** | **.02547** | **.00054** | **.00308** | **-.00253** |
| Stddev | .00056 | .00060 | .00010 | .00048 | .00311 | .00045 | .00010 | .00234 |
| %RSD | .25487 | 75.839 | 60.491 | 63.626 | 12.220 | 84.140 | 3.1554 | 92.362 |
| #1 | .21749 | .00037 | .00009 | .00109 | .02767 | .00022 | .00301 | -.00088 |
| #2 | .21828 | .00122 | .00023 | .00041 | .02327 | .00086 | .00315 | -.00418 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5538.5** | **74304.** | **3953.4** |
| Stddev | 1.8 | 63. | 7.4 |
| %RSD | .03212 | .08538 | .18791 |
| #1 | 5539.8 | 74259. | 3958.6 |
| #2 | 5537.3 | 74349. | 3948.1 |

Sample Name: 280-42311-E-2-B Acquired: 5/21/2013 23:50:56 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175102 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00118** | **.00598** | **.00087** | **.01809** | **.04063** | **-.00010** | **-.00174** | **30.431** | **.00020** |
| Stddev | .00007 | .00046 | .00014 | .00107 | .00018 | .00002 | .00146 | .005 | .00009 |
| %RSD | 6.0352 | 7.6721 | 15.709 | 5.9329 | .43442 | 22.520 | 84.055 | .01758 | 43.832 |
| #1 | -.00113 | .00630 | .00077 | .01885 | .04051 | -.00012 | -.00071 | 30.435 | .00014 |
| #2 | -.00124 | .00565 | .00096 | .01733 | .04075 | -.00009 | -.00277 | 30.427 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **-.00014** | **.00086** | **.02036** | **2.3890** | **.00753** | **7.4398** | **.04248** | **.00876** |
| Stddev | .00013 | .00009 | .00023 | .00031 | .0660 | .00039 | .0027 | .00001 | .00002 |
| %RSD | 157.56 | 64.587 | 26.887 | 1.5102 | 2.7641 | 5.1196 | .03690 | .02336 | .26180 |
| #1 | -.00017 | -.00008 | .00070 | .02058 | 2.4357 | .00726 | 7.4417 | .04247 | .00875 |
| #2 | .00001 | -.00020 | .00103 | .02014 | 2.3423 | .00781 | 7.4378 | .04249 | .00878 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.187** | **.00030** | **.21635** | **.00198** | **16.898** | **.00015** | **-.00177** | **1.9554** | **.00018** |
| Stddev | .480 | .00009 | .00340 | .00001 | .037 | .00025 | .00124 | .0023 | .00098 |
| %RSD | 2.1638 | 29.036 | 1.5738 | .31608 | .21901 | 158.76 | 70.184 | .11938 | 541.25 |
| #1 | 21.847 | .00024 | .21875 | .00198 | 16.872 | .00033 | -.00089 | 1.9537 | -.00051 |
| #2 | 22.526 | .00036 | .21394 | .00199 | 16.924 | -.00002 | -.00264 | 1.9570 | .00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23011** | **-.00001** | **.00012** | **.00087** | **.01574** | **.00031** | **.00483** | **-.00248** |
| Stddev | .00036 | .00103 | .00005 | .00073 | .00568 | .00038 | .00024 | .00113 |
| %RSD | .15685 | 14861. | 36.834 | 84.040 | 36.062 | 123.18 | 4.9495 | 45.506 |
| #1 | .23037 | .00072 | .00016 | .00138 | .01976 | .00058 | .00466 | -.00327 |
| #2 | .22986 | -.00074 | .00009 | .00035 | .01173 | .00004 | .00500 | -.00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5544.6** | **74004.** | **3996.0** |
| Stddev | 26.0 | 143. | 20.6 |
| %RSD | .46857 | .19340 | .51447 |
| #1 | 5526.3 | 73903. | 3981.5 |
| #2 | 5563.0 | 74106. | 4010.5 |

Sample Name: 280-42311-E-2-Bsd@5 Acquired: 5/21/2013 23:53:22 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175102 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00057** | **.00239** | **-.00022** | **.00698** | **.01011** | **-.00022** | **-.00107** | **6.5012** | **.00006** |
| Stddev | .00042 | .00008 | .00025 | .00029 | .00001 | .00000 | .00187 | .0280 | .00016 |
| %RSD | 73.811 | 3.2846 | 113.78 | 4.1469 | .12419 | 2.0729 | 174.36 | .43020 | 256.41 |
| #1 | -.00087 | .00233 | -.00039 | .00719 | .01010 | -.00022 | -.00240 | 6.4814 | -.00005 |
| #2 | -.00027 | .00244 | -.00004 | .00678 | .01012 | -.00023 | .00025 | 6.5210 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00029** | **.00002** | **-.00016** | **.02008** | **.60952** | **-.00189** | **1.5885** | **.00934** | **.00174** |
| Stddev | .00000 | .00006 | .00022 | .00175 | .02879 | .00172 | .0003 | .00004 | .00001 |
| %RSD | .73232 | 353.55 | 141.43 | 8.7400 | 4.7235 | 90.959 | .02047 | .45231 | .67343 |
| #1 | -.00029 | .00006 | -.00031 | .01884 | .58916 | -.00311 | 1.5888 | .00931 | .00174 |
| #2 | -.00029 | -.00003 | .00000 | .02132 | .62987 | -.00068 | 1.5883 | .00937 | .00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.6796** | **-.00039** | **.04577** | **.00120** | **3.5201** | **.00039** | **-.00193** | **.41248** | **.00021** |
| Stddev | .0223 | .00033 | .00134 | .00147 | .0014 | .00069 | .00047 | .00729 | .00029 |
| %RSD | .47744 | 85.116 | 2.9330 | 123.21 | .03859 | 179.55 | 24.299 | 1.7662 | 135.31 |
| #1 | 4.6638 | -.00063 | .04482 | .00015 | 3.5192 | -.00010 | -.00226 | .41763 | .00001 |
| #2 | 4.6954 | -.00016 | .04672 | .00224 | 3.5211 | .00088 | -.00160 | .40733 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04876** | **-.00077** | **-.00014** | **.00060** | **.02371** | **.00022** | **.00614** | **-.00324** |
| Stddev | .00012 | .00017 | .00014 | .00141 | .01403 | .00024 | .00029 | .00051 |
| %RSD | .24904 | 22.675 | 102.69 | 234.30 | 59.167 | 110.92 | 4.7439 | 15.661 |
| #1 | .04868 | -.00065 | -.00004 | -.00040 | .03362 | .00039 | .00635 | -.00359 |
| #2 | .04885 | -.00089 | -.00024 | .00160 | .01379 | .00005 | .00594 | -.00288 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5613.1** | **74845.** | **3944.6** |
| Stddev | 5.7 | 136. | 22.5 |
| %RSD | .10140 | .18226 | .57032 |
| #1 | 5617.1 | 74748. | 3960.5 |
| #2 | 5609.1 | 74941. | 3928.7 |

Sample Name: 280-42311-E-2-C MS  Acquired: 5/21/2013 23:55:48  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175102  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05314** | **1.9366** | **.99107** | **1.0047** | **2.1388** | **.04650** | **2.0318** | **76.754** | **.10422** |
| Stddev | .00010 | .0024 | .00054 | .0017 | .0084 | .00011 | .0065 | .221 | .00025 |
| %RSD | .19621 | .12141 | .05434 | .17334 | .39468 | .22808 | .32039 | .28841 | .24242 |
| #1 | .05306 | 1.9350 | .99069 | 1.0035 | 2.1448 | .04643 | 2.0272 | 76.910 | .10404 |
| #2 | .05321 | 1.9383 | .99145 | 1.0059 | 2.1329 | .04658 | 2.0364 | 76.597 | .10440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49760** | **.19917** | **.24907** | **.90690** | **58.259** | **1.1236** | **57.084** | **.54144** | **1.0013** |
| Stddev | .00090 | .00000 | .00006 | .00364 | .113 | .0029 | .106 | .00115 | .0004 |
| %RSD | .18104 | .00250 | .02460 | .40114 | .19321 | .26193 | .18645 | .21151 | .04251 |
| #1 | .49696 | .19917 | .24903 | .90433 | 58.338 | 1.1257 | 57.159 | .54225 | 1.0010 |
| #2 | .49824 | .19916 | .24911 | .90947 | 58.179 | 1.1215 | 57.008 | .54063 | 1.0016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **78.638** | **.49012** | **10.003** | **.49999** | **17.087** | **.50033** | **1.9631** | **11.377** | **1.9833** |
| Stddev | .318 | .00109 | .008 | .00079 | .019 | .00332 | .0053 | .018 | .0011 |
| %RSD | .40480 | .22287 | .07609 | .15785 | .11255 | .66376 | .26864 | .15484 | .05468 |
| #1 | 78.863 | .48935 | 9.9973 | .49943 | 17.074 | .49798 | 1.9594 | 11.364 | 1.9826 |
| #2 | 78.413 | .49090 | 10.008 | .50055 | 17.101 | .50268 | 1.9668 | 11.389 | 1.9841 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2115** | **1.0025** | **1.0144** | **1.9723** | **2.0758** | **.50262** | **.50722** | **.47695** |
| Stddev | .0075 | .0032 | .0011 | .0013 | .0189 | .00137 | .00254 | .00136 |
| %RSD | .61685 | .31409 | .10625 | .06506 | .90922 | .27206 | .50174 | .28426 |
| #1 | 1.2167 | 1.0048 | 1.0152 | 1.9714 | 2.0624 | .50359 | .50902 | .47791 |
| #2 | 1.2062 | 1.0003 | 1.0137 | 1.9732 | 2.0891 | .50166 | .50542 | .47599 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5426.1** | **72203.** | **3931.5** |
| Stddev | 24.9 | 216. | 28.9 |
| %RSD | .45954 | .29918 | .73467 |
| #1 | 5408.5 | 72050. | 3911.0 |
| #2 | 5443.8 | 72356. | 3951.9 |

Sample Name: 280-42311-E-2-D MSD  Acquired: 5/21/2013 23:58:00  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175102  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05363** | **1.9359** | **.98967** | **1.0005** | **2.1593** | **.04677** | **2.0267** | **76.984** | **.10408** |
| Stddev | .00008 | .0044 | .00507 | .0006 | .0012 | .00016 | .0010 | .029 | .00005 |
| %RSD | .15659 | .22625 | .51221 | .05493 | .05676 | .34720 | .05186 | .03789 | .04417 |
| #1 | .05357 | 1.9390 | .98608 | 1.0009 | 2.1584 | .04688 | 2.0274 | 76.963 | .10412 |
| #2 | .05368 | 1.9328 | .99325 | 1.0001 | 2.1601 | .04665 | 2.0259 | 77.004 | .10405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49846** | **.19933** | **.24846** | **.90272** | **58.372** | **1.1270** | **57.144** | **.54312** | **1.0007** |
| Stddev | .00002 | .00022 | .00074 | .00264 | .038 | .0041 | .078 | .00002 | .0013 |
| %RSD | .00350 | .10952 | .29893 | .29220 | .06431 | .36707 | .13625 | .00419 | .13178 |
| #1 | .49845 | .19918 | .24899 | .90459 | 58.399 | 1.1299 | 57.199 | .54313 | .99976 |
| #2 | .49847 | .19949 | .24794 | .90085 | 58.346 | 1.1240 | 57.089 | .54310 | 1.0016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **78.645** | **.49028** | **10.002** | **.50056** | **17.006** | **.50017** | **1.9586** | **11.372** | **1.9782** |
| Stddev | .008 | .00046 | .011 | .00099 | .026 | .00251 | .0060 | .004 | .0003 |
| %RSD | .00954 | .09454 | .11169 | .19719 | .15546 | .50175 | .30730 | .03588 | .01644 |
| #1 | 78.640 | .49061 | 9.9937 | .50126 | 16.988 | .50195 | 1.9544 | 11.369 | 1.9780 |
| #2 | 78.651 | .48995 | 10.009 | .49986 | 17.025 | .49840 | 1.9629 | 11.375 | 1.9784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2200** | **1.0123** | **1.0140** | **1.9731** | **2.0814** | **.50331** | **.50778** | **.47989** |
| Stddev | .0042 | .0014 | .0009 | .0001 | .0372 | .00062 | .00045 | .00013 |
| %RSD | .34148 | .14226 | .08617 | .00675 | 1.7878 | .12335 | .08930 | .02638 |
| #1 | 1.2229 | 1.0112 | 1.0134 | 1.9732 | 2.1077 | .50375 | .50810 | .47980 |
| #2 | 1.2170 | 1.0133 | 1.0146 | 1.9730 | 2.0550 | .50287 | .50746 | .47998 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5387.0** | **72231.** | **3924.0** |
| Stddev | 10.9 | 162. | 15.9 |
| %RSD | .20301 | .22428 | .40602 |
| #1 | 5379.3 | 72117. | 3912.8 |
| #2 | 5394.8 | 72346. | 3935.3 |

Sample Name: CCVH-2058327 Acquired: 5/22/2013 0:00:12 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00131** | **48.214** | **.00012** | **.00801** | **.00251** | **-.00011** | **.97677** | **-.00086** | **-.00061** | **.00169** | **-.00033** | **.00300** |
| Stddev | .00034 | .218 | .00264 | .00000 | .00016 | .00024 | .00224 | .00604 | .00011 | .00002 | .00003 | .00005 |
| %RSD | 25.814 | .45261 | 2228.9 | .01342 | 6.3329 | 228.08 | .22938 | 703.08 | 18.562 | 1.2859 | 8.4352 | 1.7528 |
| #1 | .00107 | 48.060 | .00198 | .00801 | .00240 | -.00028 | .97519 | -.00513 | -.00069 | .00171 | -.00031 | .00304 |
| #2 | .00155 | 48.369 | -.00175 | .00801 | .00262 | .00006 | .97836 | .00341 | -.00053 | .00168 | -.00035 | .00296 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.867** | **.18003** | **-.00314** | **-.00885** | **-.00060** | **-.00138** | F **281.62** | **.00107** | **.00302** | **.00202** | **4.7542** | **-.00117** |
| Stddev | .092 | .15101 | .00056 | .00023 | .00003 | .00008 | .75 | .00045 | .00086 | .00069 | .0230 | .00216 |
| %RSD | .20135 | 83.883 | 17.916 | 2.6193 | 4.8162 | 6.1376 | .26746 | 42.348 | 28.414 | 34.060 | .48304 | 184.97 |
| #1 | 45.932 | .07325 | -.00354 | -.00868 | -.00062 | -.00132 | 281.08 | .00075 | .00362 | .00153 | 4.7379 | .00036 |
| #2 | 45.801 | .28681 | -.00275 | -.00901 | -.00058 | -.00144 | 282.15 | .00139 | .00241 | .00250 | 4.7704 | -.00270 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00377** | **-.00097** | **-.00018** | **.00009** | **4.9877** | **.00170** | **-.00122** | **9.8710** | **-.00089** | **.00324** | **-.03394** |
| Stddev | .00270 | .00658 | .00012 | .00003 | .0082 | .00003 | .00028 | .0440 | .00094 | .00043 | .00286 |
| %RSD | 71.545 | 678.52 | 64.329 | 38.855 | .16465 | 1.9557 | 22.865 | .44530 | 105.53 | 13.338 | 8.4215 |
| #1 | .00568 | .00368 | -.00026 | .00011 | 4.9819 | .00172 | -.00141 | 9.8399 | -.00156 | .00355 | -.03192 |
| #2 | .00186 | -.00562 | -.00010 | .00006 | 4.9935 | .00167 | -.00102 | 9.9020 | -.00023 | .00294 | -.03596 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5338.7** | **70738.** | **3734.7** |
| Stddev | 28.8 | 433. | 13.6 |
| %RSD | .54004 | .61216 | .36310 |
| #1 | 5318.4 | 70431. | 3725.1 |
| #2 | 5359.1 | 71044. | 3744.3 |

Sample Name: CCV-2058325 Acquired: 5/22/2013 0:02:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50989** | **.50113** | **.98040** | **.49301** | **.52661** | **.46089** | **-.00170** | **4.7773** | **.50428** | **.51194** | **.49959** | **.49778** |
| Stddev | .00059 | .00100 | .00767 | .00297 | .00037 | .00118 | .00222 | .0214 | .00021 | .00214 | .00135 | .00260 |
| %RSD | .11524 | .19864 | .78204 | .60166 | .07108 | .25632 | 130.63 | .44801 | .04095 | .41742 | .27041 | .52242 |
| #1 | .51030 | .50042 | .97497 | .49091 | .52635 | .46005 | -.00327 | 4.7925 | .50414 | .51043 | .49864 | .49962 |
| #2 | .50947 | .50183 | .98582 | .49511 | .52688 | .46172 | -.00013 | 4.7622 | .50443 | .51345 | .50055 | .49595 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2511** | F **55.624** | F **1.1169** | **20.186** | **.50972** | **.49788** | F **5.7660** | **.50596** | **.96922** | **1.0169** | **.00597** | **.98332** |
| Stddev | .0079 | .054 | .0009 | .112 | .00019 | .00223 | .0080 | .00286 | .01063 | .0040 | .00101 | .00473 |
| %RSD | .35289 | .09765 | .08407 | .55441 | .03800 | .44696 | .13846 | .56471 | 1.0968 | .39850 | 16.917 | .48140 |
| #1 | 2.2455 | 55.663 | 1.1175 | 20.265 | .50986 | .49631 | 5.7603 | .50393 | .96171 | 1.0141 | .00668 | .97997 |
| #2 | 2.2568 | 55.586 | 1.1162 | 20.107 | .50959 | .49946 | 5.7716 | .50798 | .97674 | 1.0198 | .00526 | .98666 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95798** | **4.6681** | **1.0006** | **.49501** | **.00146** | **.50881** | **1.0053** | **.01738** | **.49999** | **.51683** | **.48574** |
| Stddev | .00591 | .0195 | .0041 | .00044 | .00035 | .00010 | .0028 | .01163 | .00313 | .00229 | .00431 |
| %RSD | .61732 | .41849 | .40858 | .08878 | 23.803 | .01942 | .27780 | 66.907 | .62527 | .44335 | .88645 |
| #1 | .95379 | 4.6820 | .99771 | .49532 | .00121 | .50874 | 1.0033 | .02560 | .50220 | .51845 | .48878 |
| #2 | .96216 | 4.6543 | 1.0035 | .49470 | .00171 | .50888 | 1.0073 | .00916 | .49778 | .51521 | .48269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5491.1** | **73192.** | **3875.9** |
| Stddev | 10.9 | 161. | .8 |
| %RSD | .19913 | .21941 | .02119 |
| #1 | 5498.9 | 73079. | 3875.3 |
| #2 | 5483.4 | 73306. | 3876.4 |

Sample Name: CCB Acquired: 5/22/2013 0:04:50 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **-.00045** | **.00109** | F **.00481** | F **.00157** | **-.00012** | **-.00085** | **.00032** | **.00007** | **-.00019** | **-.00012** |
| Stddev | .00002 | .00003 | .00063 | .00065 | .00017 | .00009 | .00277 | .00456 | .00002 | .00001 | .00024 |
| %RSD | 3.7618 | 6.8248 | 57.899 | 13.531 | 10.833 | 68.834 | 326.65 | 1403.8 | 23.350 | 7.7434 | 205.98 |
| | | | | | | | | | | | |
| #1 | -.00053 | -.00047 | .00064 | .00527 | .00169 | -.00018 | .00111 | .00355 | .00008 | -.00020 | .00005 |
| #2 | -.00056 | -.00042 | .00153 | .00435 | .00145 | -.00006 | -.00280 | -.00290 | .00006 | -.00018 | -.00029 |
| | | | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00115 | | | | | | |
| Low Limit | | | | -.00312 | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00055** | **-.00334** | **.09383** | W **-.00339** | **.00121** | **-.00006** | **.00021** | F **.26696** | **-.00040** | **.00258** | **.00149** |
| Stddev | .00050 | .00141 | .02407 | .00076 | .00370 | .00001 | .00016 | .01404 | .00026 | .00068 | .00147 |
| %RSD | 91.700 | 42.071 | 25.651 | 22.441 | 306.03 | 13.921 | 76.603 | 5.2583 | 64.863 | 26.246 | 98.919 |
| | | | | | | | | | | | |
| #1 | -.00019 | -.00235 | .11085 | -.00392 | -.00141 | -.00005 | .00009 | .27688 | -.00022 | .00210 | .00252 |
| #2 | -.00090 | -.00434 | .07681 | -.00285 | .00383 | -.00006 | .00032 | .25703 | -.00058 | .00306 | .00045 |
| | | | | | | | | | | | |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00700** | **.00038** | **.00231** | **-.01272** | **-.00027** | **-.00007** | **-.00032** | **-.00021** | **-.00020** | **-.00628** | **.00050** |
| Stddev | .00126 | .00034 | .00099 | .01246 | .00014 | .00007 | .00058 | .00034 | .00039 | .00479 | .00008 |
| %RSD | 18.028 | 88.978 | 43.112 | 97.930 | 53.412 | 99.491 | 185.20 | 167.24 | 200.96 | 76.175 | 15.656 |
| | | | | | | | | | | | |
| #1 | .00789 | .00014 | .00301 | -.00391 | -.00037 | -.00012 | .00010 | .00004 | -.00047 | -.00967 | .00045 |
| #2 | .00611 | .00062 | .00160 | -.02153 | -.00017 | -.00002 | -.00073 | -.00045 | .00008 | -.00290 | .00056 |
| | | | | | | | | | | | |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00236** | W **-.00288** |
| Stddev | .00059 | .00061 |
| %RSD | 24.863 | 21.167 |
| | | |
| #1 | .00195 | -.00245 |
| #2 | .00278 | -.00331 |
| | | |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5619.5** | **74485.** | **3906.5** |
| Stddev | 10.8 | 385. | 41.5 |
| %RSD | .19170 | .51741 | 1.0626 |
| | | | |
| #1 | 5611.9 | 74212. | 3877.2 |
| #2 | 5627.1 | 74757. | 3935.9 |

Sample Name: CCVL2062912 Acquired: 5/22/2013 0:07:20 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01015** | **.10340** | **.01497** | **.10220** | W **.01242** | W **.00080** | **.10683** | **.19757** | **.00543** | **.01052** | **.01007** |
| Stddev | .00029 | .00135 | .00235 | .00099 | .00077 | .00010 | .00147 | .00749 | .00007 | .00060 | .00007 |
| %RSD | 2.8394 | 1.3008 | 15.705 | .97350 | 6.2076 | 12.262 | 1.3753 | 3.7902 | 1.3288 | 5.7046 | .64697 |
| #1 | .01036 | .10435 | .01663 | .10291 | .01188 | .00073 | .10579 | .19227 | .00548 | .01095 | .01002 |
| #2 | .00995 | .10245 | .01331 | .10150 | .01297 | .00087 | .10787 | .20286 | .00538 | .01010 | .01011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | .00100 | | | | | |
| Range | | | | | 20.000% | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01489** | **.09212** | **3.5447** | **.00885** | **.21043** | **.01056** | **.02053** | F **1.4087** | **.04135** | **2.9183** | W **.01083** |
| Stddev | .00011 | .00253 | .0557 | .00064 | .00238 | .00005 | .00020 | .0070 | .00048 | .0209 | .00090 |
| %RSD | .76275 | 2.7506 | 1.5705 | 7.2608 | 1.1328 | .47700 | .99744 | .49446 | 1.1590 | .71527 | 8.3254 |
| #1 | .01481 | .09391 | 3.5841 | .00931 | .21211 | .01059 | .02067 | 1.4037 | .04169 | 2.9331 | .01147 |
| #2 | .01497 | .09033 | 3.5053 | .00840 | .20874 | .01052 | .02038 | 1.4136 | .04101 | 2.9035 | .01019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | 1.0000 | | | .00900 |
| Range | | | | | | | | 30.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01054** | **.01020** | W **.01189** | **.48423** | **.10285** | **.01005** | **.01447** | **.01027** | **.01485** | W **.07714** | **.01027** |
| Stddev | .00168 | .00038 | .00172 | .00800 | .00028 | .00014 | .00045 | .00003 | .00006 | .01378 | .00033 |
| %RSD | 15.950 | 3.7178 | 14.461 | 1.6521 | .26993 | 1.3499 | 3.0845 | .27544 | .39997 | 17.862 | 3.1927 |
| #1 | .00935 | .00994 | .01067 | .48988 | .10305 | .00996 | .01415 | .01025 | .01489 | .06740 | .01004 |
| #2 | .01173 | .01047 | .01311 | .47857 | .10266 | .01015 | .01478 | .01029 | .01481 | .08688 | .01050 |
| Check ? | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| Value | | | .01500 | | | | | | | .06000 | |
| Range | | | -20.000% | | | | | | | 20.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02379** | **.01294** |
| Stddev | .00035 | .00158 |
| %RSD | 1.4634 | 12.221 |
| #1 | .02404 | .01406 |
| #2 | .02354 | .01182 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5718.2** | **76093.** | **4005.1** |
| Stddev | 33.3 | 32. | 14.6 |
| %RSD | .58297 | .04255 | .36558 |
| #1 | 5694.7 | 76116. | 4015.4 |
| #2 | 5741.8 | 76070. | 3994.7 |

Sample Name: MB 280-175168/1-A Acquired: 5/22/2013 0:09:43 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00040** | **.00151** | **.00099** | **.00432** | **.00105** | **.00004** | **-.00156** | **.00713** | **.00009** |
| Stddev | .00038 | .00001 | .00242 | .00045 | .00006 | .00013 | .00313 | .00134 | .00008 |
| %RSD | 96.476 | .67466 | 245.30 | 10.367 | 5.7552 | 353.21 | 200.81 | 18.798 | 89.465 |
| #1 | -.00067 | .00151 | .00270 | .00464 | .00101 | -.00006 | .00066 | .00618 | .00003 |
| #2 | -.00013 | .00150 | -.00072 | .00401 | .00109 | .00013 | -.00378 | .00808 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00023** | **-.00021** | **-.00021** | **.00298** | **.08463** | **-.00321** | **.00427** | **.00009** | **.00008** |
| Stddev | .00010 | .00006 | .00027 | .00120 | .00882 | .00288 | .00110 | .00003 | .00001 |
| %RSD | 43.255 | 26.069 | 126.58 | 40.354 | 10.419 | 89.981 | 25.868 | 34.745 | 8.6422 |
| #1 | -.00030 | -.00025 | -.00002 | .00213 | .09086 | -.00117 | .00505 | .00011 | .00007 |
| #2 | -.00016 | -.00017 | -.00041 | .00383 | .07839 | -.00525 | .00349 | .00006 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25746** | **-.00035** | **.00471** | **.00027** | **.01101** | **-.00071** | **-.00086** | **.01360** | **-.00024** |
| Stddev | .01408 | .00046 | .00065 | .00079 | .00195 | .00053 | .00023 | .00793 | .00033 |
| %RSD | 5.4708 | 132.23 | 13.757 | 289.70 | 17.681 | 74.337 | 26.888 | 58.331 | 140.43 |
| #1 | .24750 | -.00002 | .00425 | -.00029 | .01238 | -.00034 | -.00070 | .01921 | -.00047 |
| #2 | .26741 | -.00067 | .00517 | .00083 | .00963 | -.00109 | -.00102 | .00799 | -.00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **-.00170** | **.00002** | **.00153** | **.03636** | **.00022** | **.00308** | **-.00384** |
| Stddev | .00010 | .00391 | .00007 | .00120 | .00152 | .00040 | .00017 | .00002 |
| %RSD | 1904.4 | 229.31 | 344.95 | 78.112 | 4.1824 | 185.44 | 5.5141 | .49487 |
| #1 | .00007 | .00106 | .00007 | .00238 | .03744 | -.00007 | .00320 | -.00383 |
| #2 | -.00008 | -.00447 | -.00003 | .00069 | .03529 | .00050 | .00296 | -.00385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5723.8** | **77207.** | **4128.1** |
| Stddev | 1.4 | 280. | 19.2 |
| %RSD | .02419 | .36305 | .46505 |
| #1 | 5724.8 | 77405. | 4114.5 |
| #2 | 5722.8 | 77008. | 4141.7 |

Sample Name: LCS 280-175168/2-A Acquired: 5/22/2013 0:12:13 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05453** | **1.9472** | **.98440** | **.99926** | **2.1390** | **.04698** | **2.0541** | **47.598** | **.10497** |
| Stddev | .00041 | .0038 | .00220 | .00175 | .0075 | .00001 | .0019 | .154 | .00008 |
| %RSD | .75600 | .19451 | .22339 | .17525 | .34920 | .01765 | .09474 | .32386 | .07651 |
| #1 | .05483 | 1.9498 | .98284 | .99803 | 2.1337 | .04697 | 2.0527 | 47.489 | .10492 |
| #2 | .05424 | 1.9445 | .98595 | 1.0005 | 2.1443 | .04698 | 2.0555 | 47.707 | .10503 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50525** | **.20077** | **.25001** | **.92132** | **56.685** | **1.1316** | **50.259** | **.50585** | **1.0017** |
| Stddev | .00029 | .00020 | .00005 | .00060 | .082 | .0058 | .123 | .00113 | .0004 |
| %RSD | .05773 | .09924 | .01822 | .06563 | .14530 | .51198 | .24458 | .22292 | .03556 |
| #1 | .50505 | .20063 | .24998 | .92175 | 56.626 | 1.1276 | 50.172 | .50505 | 1.0019 |
| #2 | .50546 | .20091 | .25004 | .92089 | 56.743 | 1.1357 | 50.346 | .50665 | 1.0014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **58.510** | **.49641** | **9.9601** | **.50596** | **-.00177** | **.50826** | **1.9707** | **9.5849** | **1.9999** |
| Stddev | 1.028 | .00094 | .0158 | .00090 | .00207 | .00297 | .0111 | .0447 | .0101 |
| %RSD | 1.7563 | .18857 | .15853 | .17707 | 116.62 | .58439 | .56364 | .46652 | .50620 |
| #1 | 59.236 | .49707 | 9.9489 | .50533 | -.00031 | .50616 | 1.9629 | 9.6165 | 1.9928 |
| #2 | 57.783 | .49575 | 9.9712 | .50659 | -.00323 | .51036 | 1.9786 | 9.5533 | 2.0071 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 56.000 | | | | | | | | |
| Low Limit | 45.500 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99892** | **1.0179** | **1.0234** | **2.0066** | **2.1110** | **.50577** | **.51160** | **.48834** |
| Stddev | .00165 | .0019 | .0023 | .0068 | .0169 | .00028 | .00154 | .00179 |
| %RSD | .16522 | .18650 | .22248 | .33906 | .79975 | .05619 | .30135 | .36610 |
| #1 | 1.0001 | 1.0166 | 1.0218 | 2.0018 | 2.1229 | .50557 | .51269 | .48707 |
| #2 | .99775 | 1.0193 | 1.0251 | 2.0114 | 2.0991 | .50597 | .51051 | .48960 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5576.6** | **74408.** | **4040.2** |
| Stddev | 4.5 | 413. | 15.4 |
| %RSD | .08017 | .55490 | .38136 |
| #1 | 5573.4 | 74700. | 4051.0 |
| #2 | 5579.8 | 74116. | 4029.3 |

Sample Name: 280-42284-E-1-B Acquired: 5/22/2013 0:14:27 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00052** | **.00288** | **-.00071** | **.01411** | **.03640** | **-.00019** | **.00024** | **67.516** | **.00043** |
| Stddev | .00105 | .00017 | .00063 | .00040 | .00043 | .00004 | .00085 | .366 | .00030 |
| %RSD | 201.29 | 5.7834 | 88.484 | 2.8312 | 1.1931 | 20.970 | 350.48 | .54262 | 68.670 |
| #1 | -.00126 | .00299 | -.00116 | .01439 | .03671 | -.00022 | -.00036 | 67.257 | .00022 |
| #2 | .00022 | .00276 | -.00027 | .01383 | .03610 | -.00016 | .00084 | 67.775 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.00201** | **-.00031** | **.01007** | **2.1340** | **.00081** | **38.402** | **.00192** | **.00432** |
| Stddev | .00004 | .00027 | .00033 | .00122 | .0032 | .00069 | .069 | .00006 | .00008 |
| %RSD | 6.2278 | 13.485 | 104.59 | 12.101 | .15183 | 84.820 | .18032 | 2.9059 | 1.7376 |
| #1 | .00071 | .00182 | -.00054 | .01093 | 2.1363 | .00130 | 38.451 | .00188 | .00438 |
| #2 | .00065 | .00221 | -.00008 | .00921 | 2.1317 | .00032 | 38.353 | .00196 | .00427 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.8356** | W **9.5651** | **.00018** | **.02970** | **.00081** | **1.2701** | **-.00210** | **.00019** | **6.7760** |
| Stddev | .0638 | .3446 | .00006 | .00085 | .00140 | .0056 | .00118 | .00601 | .0311 |
| %RSD | .72250 | 3.6022 | 31.271 | 2.8779 | 173.73 | .44431 | 56.122 | 3241.1 | .45913 |
| #1 | 8.7905 | 9.3215 | .00014 | .03030 | -.00018 | 1.2661 | -.00294 | -.00406 | 6.7540 |
| #2 | 8.8808 | 9.8087 | .00022 | .02909 | .00179 | 1.2741 | -.00127 | .00443 | 6.7980 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | |
| Low Limit | | 10.000 | | | | | | | |

| Elem | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 189.989 {477} | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **.05061** | **-.00065** | **.00001** | **.00179** | **.01266** | **.00158** | **.06645** | **-.00088** |
| Stddev | .00054 | .00010 | .00114 | .00003 | .00153 | .00421 | .00028 | .00049 | .00023 |
| %RSD | 111.45 | .20478 | 175.15 | 357.24 | 85.893 | 33.269 | 17.889 | .74441 | 26.771 |
| #1 | -.00010 | .05068 | -.00145 | .00003 | .00287 | .00968 | .00138 | .06680 | -.00071 |
| #2 | -.00086 | .05053 | .00015 | -.00001 | .00070 | .01563 | .00178 | .06610 | -.00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5652.9** | **75300.** | **4067.5** |
| Stddev | 19.8 | 254. | 27.9 |
| %RSD | .35016 | .33789 | .68612 |
| #1 | 5638.9 | 75120. | 4087.2 |
| #2 | 5666.9 | 75480. | 4047.8 |

Sample Name: 280-42284-E-1-Bsd@5 Acquired: 5/22/2013 0:16:52 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **.00334** | **.00089** | **.00611** | **.00945** | **-.00012** | **.00084** | **15.817** | **.00010** |
| Stddev | .00031 | .00027 | .00500 | .00004 | .00037 | .00015 | .00172 | .047 | .00004 |
| %RSD | 60.940 | 7.9841 | 559.96 | .68169 | 3.8714 | 124.33 | 204.90 | .29484 | 43.463 |
| #1 | -.00072 | .00353 | .00443 | .00614 | .00971 | -.00001 | .00206 | 15.850 | .00007 |
| #2 | -.00029 | .00316 | -.00264 | .00608 | .00919 | -.00023 | -.00038 | 15.784 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00035** | **-.00040** | **.00646** | **.58714** | **-.00328** | **8.9837** | **.00057** | **.00124** |
| Stddev | .00027 | .00002 | .00033 | .00070 | .00092 | .00155 | .0172 | .00005 | .00005 |
| %RSD | 105.05 | 5.7541 | 80.321 | 10.852 | .15709 | 47.305 | .19131 | 9.0243 | 4.4403 |
| #1 | .00007 | .00033 | -.00063 | .00596 | .58780 | -.00438 | 8.9958 | .00053 | .00128 |
| #2 | .00044 | .00036 | -.00017 | .00695 | .58649 | -.00218 | 8.9715 | .00061 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.2660** | **-.00021** | **.00643** | **.00129** | **.29422** | **-.00141** | **.00005** | **1.5658** | **.00021** |
| Stddev | .0275 | .00006 | .00004 | .00071 | .00250 | .00089 | .00165 | .0045 | .00074 |
| %RSD | 1.2123 | 27.373 | .69035 | 54.933 | .84961 | 63.004 | 3378.7 | .28937 | 350.36 |
| #1 | 2.2854 | -.00025 | .00646 | .00079 | .29599 | -.00078 | .00122 | 1.5691 | -.00031 |
| #2 | 2.2466 | -.00017 | .00640 | .00179 | .29246 | -.00204 | -.00112 | 1.5626 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01190** | **.00020** | **-.00015** | **-.00016** | **.01494** | **.00082** | **.01931** | **-.00019** |
| Stddev | .00022 | .00131 | .00034 | .00018 | .02291 | .00025 | .00017 | .00002 |
| %RSD | 1.8463 | 640.76 | 225.83 | 114.04 | 153.31 | 30.661 | .88285 | 10.606 |
| #1 | .01205 | -.00072 | -.00039 | -.00003 | .03114 | .00064 | .01919 | -.00020 |
| #2 | .01174 | .00113 | .00009 | -.00029 | -.00126 | .00100 | .01943 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5779.3** | **77115.** | **4106.5** |
| Stddev | 6.2 | 222. | 17.3 |
| %RSD | .10644 | .28771 | .42106 |
| #1 | 5783.7 | 77272. | 4094.3 |
| #2 | 5775.0 | 76958. | 4118.7 |

Sample Name: 280-42284-E-1-C MS  Acquired: 5/22/2013 0:19:19  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04674** | **1.6792** | **.85659** | **.88035** | **1.8728** | **.04046** | **1.7811** | **108.36** | **.09178** |
| Stddev | .00047 | .0002 | .00177 | .00127 | .0062 | .00003 | .0055 | .36 | .00016 |
| %RSD | 1.0000 | .01442 | .20689 | .14467 | .32888 | .06201 | .30752 | .32851 | .17669 |
| #1 | .04641 | 1.6790 | .85785 | .87945 | 1.8772 | .04044 | 1.7773 | 108.61 | .09167 |
| #2 | .04707 | 1.6794 | .85534 | .88125 | 1.8685 | .04048 | 1.7850 | 108.11 | .09190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43509** | **.17518** | **.21644** | **.79013** | **51.180** | **.98173** | **81.336** | **.43435** | **.86735** |
| Stddev | .00089 | .00060 | .00080 | .00143 | .252 | .00152 | .198 | .00134 | .00123 |
| %RSD | .20461 | .34327 | .36767 | .18143 | .49232 | .15469 | .24341 | .30906 | .14128 |
| #1 | .43446 | .17475 | .21588 | .78912 | 51.358 | .98281 | 81.196 | .43340 | .86821 |
| #2 | .43572 | .17560 | .21701 | .79114 | 51.002 | .98066 | 81.476 | .43530 | .86648 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **59.287** | **.42526** | **8.7279** | **.43776** | **1.2834** | **.44115** | **1.7175** | **15.013** | **1.7193** |
| Stddev | .659 | .00082 | .0230 | .00443 | .0069 | .00139 | .0005 | .035 | .0008 |
| %RSD | 1.1120 | .19391 | .26387 | 1.0110 | .53834 | .31511 | .02810 | .23091 | .04345 |
| #1 | 59.753 | .42468 | 8.7442 | .43463 | 1.2785 | .44017 | 1.7172 | 15.038 | 1.7188 |
| #2 | 58.821 | .42585 | 8.7116 | .44089 | 1.2883 | .44213 | 1.7179 | 14.989 | 1.7199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90826** | **.88075** | **.88397** | **1.7135** | **1.8373** | **.43635** | **.49790** | **.41684** |
| Stddev | .00521 | .00153 | .00250 | .0043 | .0490 | .00057 | .00132 | .00179 |
| %RSD | .57377 | .17424 | .28300 | .25260 | 2.6672 | .13034 | .26458 | .42838 |
| #1 | .91194 | .87967 | .88220 | 1.7105 | 1.8026 | .43595 | .49697 | .41811 |
| #2 | .90457 | .88184 | .88573 | 1.7166 | 1.8719 | .43676 | .49883 | .41558 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5557.2** | **74466.** | **4078.4** |
| Stddev | 10.0 | 311. | 27.1 |
| %RSD | .18022 | .41771 | .66568 |
| #1 | 5550.1 | 74686. | 4059.2 |
| #2 | 5564.3 | 74246. | 4097.6 |

Sample Name: 280-42284-E-1-D MSD  Acquired: 5/22/2013 0:21:34  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04785** | **1.6813** | **.86232** | **.88084** | **1.8729** | **.04051** | **1.7954** | **107.86** | **.09196** |
| Stddev | .00008 | .0030 | .00208 | .00493 | .0083 | .00003 | .0002 | .11 | .00034 |
| %RSD | .16007 | .18057 | .24123 | .55968 | .44219 | .07813 | .00889 | .10411 | .36587 |
| #1 | .04780 | 1.6834 | .86085 | .87736 | 1.8671 | .04049 | 1.7955 | 107.78 | .09172 |
| #2 | .04791 | 1.6791 | .86379 | .88433 | 1.8788 | .04054 | 1.7953 | 107.93 | .09220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43687** | **.17615** | **.21669** | **.79318** | **51.195** | **.97824** | **81.821** | **.43866** | **.87074** |
| Stddev | .00129 | .00007 | .00054 | .00089 | .020 | .00059 | .034 | .00032 | .00012 |
| %RSD | .29589 | .04053 | .24852 | .11175 | .03919 | .06048 | .04131 | .07368 | .01336 |
| #1 | .43595 | .17610 | .21631 | .79255 | 51.209 | .97866 | 81.845 | .43844 | .87066 |
| #2 | .43778 | .17620 | .21707 | .79380 | 51.181 | .97782 | 81.797 | .43889 | .87082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **59.286** | **.42726** | **8.7654** | **.44063** | **1.2816** | **.44402** | **1.7309** | **15.032** | **1.7241** |
| Stddev | .007 | .00088 | .0171 | .00127 | .0012 | .00184 | .0081 | .095 | .0047 |
| %RSD | .01196 | .20657 | .19478 | .28815 | .08968 | .41541 | .47086 | .63289 | .27519 |
| #1 | 59.281 | .42664 | 8.7775 | .43973 | 1.2808 | .44533 | 1.7366 | 15.100 | 1.7274 |
| #2 | 59.291 | .42789 | 8.7534 | .44153 | 1.2825 | .44272 | 1.7251 | 14.965 | 1.7207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90665** | **.88539** | **.88943** | **1.7327** | **1.8310** | **.44016** | **.50495** | **.41729** |
| Stddev | .00069 | .00293 | .00166 | .0051 | .0173 | .00066 | .00048 | .00015 |
| %RSD | .07580 | .33084 | .18668 | .29410 | .94215 | .15007 | .09411 | .03596 |
| #1 | .90714 | .88746 | .89061 | 1.7363 | 1.8432 | .44063 | .50529 | .41718 |
| #2 | .90616 | .88331 | .88826 | 1.7291 | 1.8188 | .43970 | .50462 | .41739 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5551.5** | **73812.** | **4095.8** |
| Stddev | 6.0 | 68. | 19.6 |
| %RSD | .10890 | .09164 | .47972 |
| #1 | 5547.2 | 73860. | 4109.7 |
| #2 | 5555.8 | 73764. | 4081.9 |

Sample Name: 280-42284-E-1-Bpds Acquired: 5/22/2013 0:23:48 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05051** | **.98870** | **.19051** | **.11690** | **.14874** | **.04671** | **-.00526** | **95.725** | **.05260** |
| Stddev | .00115 | .00093 | .00022 | .00039 | .00064 | .00043 | .00129 | 1.164 | .00002 |
| %RSD | 2.2675 | .09383 | .11410 | .33287 | .43112 | .91774 | 24.435 | 1.2161 | .03867 |
| #1 | .05132 | .98804 | .19036 | .11717 | .14920 | .04701 | -.00435 | 96.548 | .05258 |
| #2 | .04970 | .98935 | .19067 | .11662 | .14829 | .04641 | -.00617 | 94.901 | .05261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05136** | **.05268** | **.05158** | **.91189** | **24.996** | **.11547** | **63.452** | **.05291** | **.05481** |
| Stddev | .00000 | .00033 | .00036 | .00095 | .273 | .00038 | .171 | .00010 | .00017 |
| %RSD | .00765 | .62602 | .70669 | .10424 | 1.0904 | .33123 | .26884 | .18641 | .30202 |
| #1 | .05136 | .05245 | .05184 | .91256 | 25.188 | .11574 | 63.572 | .05298 | .05493 |
| #2 | .05136 | .05292 | .05133 | .91121 | 24.803 | .11520 | 63.331 | .05284 | .05469 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **33.110** | **.04953** | **2.0296** | **.10376** | **1.4652** | **.10328** | **.19372** | **12.492** | **.10012** |
| Stddev | .605 | .00006 | .0004 | .00093 | .0059 | .00139 | .00280 | .084 | .00056 |
| %RSD | 1.8260 | .11231 | .01814 | .89462 | .39919 | 1.3424 | 1.4438 | .66917 | .56109 |
| #1 | 33.537 | .04949 | 2.0298 | .10311 | 1.4693 | .10426 | .19174 | 12.551 | .09973 |
| #2 | 32.682 | .04956 | 2.0293 | .10442 | 1.4610 | .10230 | .19569 | 12.433 | .10052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10858** | **.20625** | **.05273** | **.20331** | **.51449** | **.05228** | **.27902** | **.04866** |
| Stddev | .00064 | .00271 | .00043 | .00021 | .00333 | .00033 | .00055 | .00165 |
| %RSD | .58902 | 1.3125 | .80982 | .10245 | .64822 | .63209 | .19626 | 3.3974 |
| #1 | .10904 | .20817 | .05303 | .20316 | .51684 | .05251 | .27941 | .04983 |
| #2 | .10813 | .20434 | .05242 | .20346 | .51213 | .05205 | .27863 | .04749 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5566.7** | **74552.** | **4094.0** |
| Stddev | 22.8 | 385. | 77.5 |
| %RSD | .40947 | .51586 | 1.8929 |
| #1 | 5582.8 | 74280. | 4039.2 |
| #2 | 5550.6 | 74824. | 4148.8 |

Sample Name: 280-42284-E-2-B Acquired: 5/22/2013 0:26:08 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00118** | **.00471** | **-.00096** | **.01081** | **.01873** | **-.00006** | **-.00263** | **36.452** | **.00015** |
| Stddev | .00108 | .00008 | .00044 | .00023 | .00034 | .00002 | .00010 | .120 | .00012 |
| %RSD | 91.809 | 1.6658 | 45.181 | 2.0918 | 1.8016 | 34.607 | 3.9599 | .32868 | 80.127 |
| #1 | -.00195 | .00465 | -.00127 | .01065 | .01849 | -.00007 | -.00255 | 36.537 | .00024 |
| #2 | -.00041 | .00476 | -.00066 | .01097 | .01897 | -.00004 | -.00270 | 36.367 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00180** | **.00083** | **-.00003** | **.02295** | **1.7027** | **-.00043** | **18.700** | **.04492** | **.00557** |
| Stddev | .00005 | .00007 | .00002 | .00262 | .0588 | .00170 | .042 | .00006 | .00041 |
| %RSD | 2.7739 | 7.7895 | 51.166 | 11.413 | 3.4556 | 398.92 | .22487 | .13947 | 7.3854 |
| #1 | .00177 | .00079 | -.00002 | .02110 | 1.6611 | .00078 | 18.730 | .04497 | .00528 |
| #2 | .00184 | .00088 | -.00005 | .02480 | 1.7443 | -.00163 | 18.670 | .04488 | .00587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.8300** | **.00028** | **.02934** | **.00092** | **2.4734** | **.00007** | **-.00339** | **6.2491** | **-.00060** |
| Stddev | .0273 | .00002 | .00258 | .00152 | .0015 | .00064 | .00032 | .0361 | .00035 |
| %RSD | .71352 | 6.6935 | 8.7967 | 164.59 | .06096 | 981.74 | 9.5221 | .57816 | 58.832 |
| #1 | 3.8494 | .00027 | .02751 | .00199 | 2.4723 | -.00039 | -.00316 | 6.2747 | -.00085 |
| #2 | 3.8107 | .00029 | .03116 | -.00015 | 2.4745 | .00052 | -.00362 | 6.2236 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03544** | **-.00082** | **-.00013** | **.00102** | **-.01525** | **.00211** | **.02070** | **-.00436** |
| Stddev | .00006 | .00059 | .00001 | .00040 | .00843 | .00015 | .00004 | .00151 |
| %RSD | .18261 | 72.871 | 5.8335 | 39.193 | 55.243 | 6.9617 | .18426 | 34.714 |
| #1 | .03548 | -.00124 | -.00013 | .00074 | -.00930 | .00201 | .02073 | -.00329 |
| #2 | .03539 | -.00040 | -.00014 | .00130 | -.02121 | .00222 | .02067 | -.00543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5676.9** | **76159.** | **4128.3** |
| Stddev | 33.8 | 164. | 28.8 |
| %RSD | .59465 | .21559 | .69646 |
| #1 | 5700.8 | 76043. | 4107.9 |
| #2 | 5653.1 | 76275. | 4148.6 |

Sample Name: 280-42362-E-1-B Acquired: 5/22/2013 0:28:33 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 175168 6010c q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00091** | **.00789** | **.00102** | **.01409** | **.04284** | **-.00011** | **-.00068** | **73.412** | **.00037** |
| Stddev | .00032 | .00017 | .00104 | .00030 | .00024 | .00002 | .00001 | .178 | .00006 |
| %RSD | 35.442 | 2.1762 | 102.18 | 2.1636 | .56263 | 22.935 | 2.1502 | .24193 | 16.014 |
| #1 | -.00068 | .00777 | .00175 | .01387 | .04302 | -.00009 | -.00067 | 73.537 | .00041 |
| #2 | -.00113 | .00801 | .00028 | .01430 | .04267 | -.00012 | -.00069 | 73.286 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00744** | **.00027** | **.00060** | **.02911** | **2.5692** | **.00093** | **41.597** | **.23511** | **.00818** |
| Stddev | .00012 | .00004 | .00039 | .00431 | .0724 | .00615 | .008 | .00033 | .00029 |
| %RSD | 1.5755 | 13.916 | 63.776 | 14.821 | 2.8189 | 660.94 | .01966 | .13824 | 3.5482 |
| #1 | .00752 | .00025 | .00088 | .02606 | 2.5180 | .00528 | 41.591 | .23488 | .00798 |
| #2 | .00735 | .00030 | .00033 | .03216 | 2.6204 | -.00342 | 41.603 | .23534 | .00839 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.2209** | **.00030** | **.05638** | **.00289** | **6.3676** | **.00111** | **-.00147** | **7.1855** | **-.00021** |
| Stddev | .0107 | .00018 | .00068 | .00143 | .0065 | .00240 | .00183 | .0247 | .00049 |
| %RSD | .25350 | 59.193 | 1.1984 | 49.608 | .10209 | 216.13 | 124.74 | .34432 | 234.66 |
| #1 | 4.2284 | .00043 | .05590 | .00188 | 6.3722 | -.00059 | -.00276 | 7.2030 | -.00055 |
| #2 | 4.2133 | .00018 | .05686 | .00391 | 6.3630 | .00280 | -.00017 | 7.1680 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06442** | **.00017** | **.00061** | **.00204** | **.00386** | **.00769** | **.02340** | **-.00333** |
| Stddev | .00035 | .00213 | .00013 | .00056 | .01133 | .00029 | .00021 | .00131 |
| %RSD | .54327 | 1254.6 | 22.057 | 27.445 | 293.40 | 3.7252 | .90698 | 39.346 |
| #1 | .06467 | .00168 | .00052 | .00164 | -.00415 | .00749 | .02355 | -.00426 |
| #2 | .06417 | -.00134 | .00071 | .00244 | .01187 | .00789 | .02325 | -.00241 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5654.8** | **76001.** | **4139.3** |
| Stddev | 9.6 | 9. | 28.6 |
| %RSD | .16946 | .01147 | .69034 |
| #1 | 5661.6 | 76007. | 4119.1 |
| #2 | 5648.0 | 75995. | 4159.5 |

Sample Name: CCVH-2058327 Acquired: 5/22/2013 0:30:58 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **47.635** | **.00001** | **.00451** | **.00196** | **-.00013** | **.97599** | **.00410** | **-.00083** | **.00170** | **-.00016** | **.00165** |
| Stddev | .00084 | .033 | .00139 | .00006 | .00001 | .00009 | .00089 | .00384 | .00001 | .00001 | .00006 | .00017 |
| %RSD | 92.616 | .06845 | 11181. | 1.2383 | .50659 | 69.832 | .09091 | 93.743 | 1.6404 | .63414 | 40.060 | 10.508 |
| #1 | .00149 | 47.612 | -.00097 | .00455 | .00197 | -.00019 | .97662 | .00138 | -.00082 | .00169 | -.00011 | .00152 |
| #2 | .00031 | 47.658 | .00100 | .00447 | .00196 | -.00006 | .97537 | .00682 | -.00084 | .00171 | -.00020 | .00177 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.518** | **.06098** | **-.00257** | **-.00494** | **-.00064** | **-.00163** | F **278.93** | **.00054** | **.00609** | **.00309** | **4.7486** | **-.00211** |
| Stddev | .032 | .02837 | .00382 | .00299 | .00006 | .00013 | .20 | .00008 | .00104 | .00033 | .0217 | .00347 |
| %RSD | .06973 | 46.529 | 148.39 | 60.577 | 9.1534 | 8.1097 | .07213 | 14.203 | 17.108 | 10.768 | .45648 | 164.28 |
| #1 | 45.541 | .08104 | -.00527 | -.00283 | -.00069 | -.00173 | 278.79 | .00060 | .00683 | .00285 | 4.7333 | -.00457 |
| #2 | 45.496 | .04092 | .00013 | -.00706 | -.00060 | -.00154 | 279.07 | .00049 | .00536 | .00332 | 4.7640 | .00034 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00364** | **-.00309** | **.00076** | **.00020** | **4.9895** | **.00198** | **-.00161** | **9.8316** | **-.00019** | **.00303** | **-.03825** |
| Stddev | .00231 | .00575 | .00004 | .00001 | .0167 | .00026 | .00089 | .0492 | .00008 | .00008 | .00190 |
| %RSD | 63.533 | 186.13 | 4.9207 | 3.0059 | .33433 | 13.268 | 55.128 | .50010 | 42.510 | 2.5488 | 4.9618 |
| #1 | .00527 | -.00716 | .00073 | .00020 | 5.0013 | .00217 | -.00223 | 9.8663 | -.00013 | .00297 | -.03959 |
| #2 | .00200 | .00098 | .00078 | .00020 | 4.9777 | .00180 | -.00098 | 9.7968 | -.00025 | .00308 | -.03691 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5532.5** | **74258.** | **3993.7** |
| Stddev | 9.1 | 383. | 21.4 |
| %RSD | .16485 | .51622 | .53646 |
| #1 | 5526.1 | 73987. | 3978.5 |
| #2 | 5539.0 | 74529. | 4008.8 |

Sample Name: CCV-2058325 Acquired: 5/22/2013 0:33:21 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50779** | **.49594** | **.96892** | **.48409** | **.52175** | **.45454** | **.00035** | **4.7423** | **.50163** | **.50674** | **.49411** | **.49043** |
| Stddev | .00043 | .00040 | .00053 | .00014 | .00289 | .00201 | .00364 | .0142 | .00107 | .00025 | .00042 | .00055 |
| %RSD | .08392 | .07965 | .05419 | .02902 | .55305 | .44129 | 1054.5 | .29982 | .21264 | .04939 | .08402 | .11216 |
| #1 | .50809 | .49622 | .96855 | .48419 | .52379 | .45596 | -.00223 | 4.7323 | .50088 | .50656 | .49381 | .49082 |
| #2 | .50749 | .49566 | .96929 | .48399 | .51971 | .45313 | .00292 | 4.7524 | .50239 | .50691 | .49440 | .49004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2315** | F **55.186** | F **1.1124** | **19.861** | **.50453** | **.49141** | F **5.6424** | **.50127** | **.95482** | **1.0085** | **.00433** | **.98094** |
| Stddev | .0080 | .158 | .0090 | .045 | .00153 | .00235 | .0409 | .00112 | .00706 | .0046 | .00206 | .00193 |
| %RSD | .35616 | .28575 | .80702 | .22872 | .30227 | .47793 | .72490 | .22316 | .73979 | .45077 | 47.627 | .19711 |
| #1 | 2.2259 | 55.297 | 1.1187 | 19.894 | .50561 | .48975 | 5.6714 | .50048 | .94983 | 1.0053 | .00579 | .97957 |
| #2 | 2.2371 | 55.074 | 1.1060 | 19.829 | .50346 | .49307 | 5.6135 | .50206 | .95982 | 1.0117 | .00287 | .98231 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94778** | **4.6258** | **.98813** | **.48614** | **.00408** | **.50566** | **.99713** | **-.00749** | **.49291** | **.50906** | **.48419** |
| Stddev | .00131 | .0437 | .00487 | .00401 | .00093 | .00028 | .00627 | .00862 | .00091 | .00077 | .00314 |
| %RSD | .13810 | .94523 | .49323 | .82582 | 22.744 | .05474 | .62841 | 115.15 | .18433 | .15129 | .64791 |
| #1 | .94685 | 4.5949 | .98468 | .48898 | .00473 | .50586 | .99270 | -.00139 | .49355 | .50961 | .48197 |
| #2 | .94870 | 4.6567 | .99158 | .48331 | .00342 | .50546 | 1.0016 | -.01358 | .49226 | .50852 | .48641 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5659.1** | **75171.** | **4029.4** |
| Stddev | 2.3 | 534. | 20.1 |
| %RSD | .04083 | .71057 | .49973 |
| #1 | 5657.4 | 74793. | 4015.2 |
| #2 | 5660.7 | 75549. | 4043.7 |

Sample Name: CCB Acquired: 5/22/2013 0:35:36 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **-.00035** | **.00281** | F **.00411** | F **.00182** | **-.00010** | **.00087** | **.00092** | **.00016** | **-.00003** | **-.00017** |
| Stddev | .00070 | .00044 | .00007 | .00032 | .00010 | .00000 | .00209 | .00254 | .00004 | .00003 | .00033 |
| %RSD | 150.74 | 126.88 | 2.4052 | 7.6799 | 5.3888 | 4.8826 | 240.13 | 276.72 | 27.115 | 116.49 | 197.65 |
| #1 | .00003 | -.00004 | .00277 | .00433 | .00175 | -.00010 | .00234 | -.00088 | .00020 | -.00000 | -.00040 |
| #2 | -.00096 | -.00066 | .00286 | .00389 | .00189 | -.00010 | -.00061 | .00271 | .00013 | -.00005 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00115 | | | | | | |
| Low Limit | | | | -.00312 | -.00115 | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00105** | **-.00170** | **.08240** | W **-.00283** | **-.00096** | **.00001** | **.00026** | F **.19178** | **-.00049** | **.00033** | **.00080** |
| Stddev | .00020 | .00243 | .08713 | .00103 | .00046 | .00004 | .00008 | .01631 | .00027 | .00230 | .00101 |
| %RSD | 18.931 | 142.59 | 105.74 | 36.248 | 47.663 | 343.67 | 29.370 | 8.5033 | 55.765 | 699.60 | 126.02 |
| #1 | -.00119 | .00001 | .14401 | -.00211 | -.00064 | -.00002 | .00032 | .20331 | -.00030 | .00196 | .00151 |
| #2 | -.00091 | -.00342 | .02079 | -.00356 | -.00129 | .00004 | .00021 | .18025 | -.00068 | -.00130 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .10000 | | | |
| Low Limit | | | | -.00261 | | | | -.10000 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00611** | **.00156** | **-.00085** | **-.02692** | **-.00037** | **-.00008** | **.00095** | **-.00003** | **-.00041** | **.01500** | **-.00037** |
| Stddev | .00014 | .00260 | .00189 | .01489 | .00024 | .00008 | .00212 | .00005 | .00106 | .02373 | .00045 |
| %RSD | 2.2596 | 166.68 | 221.84 | 55.311 | 63.611 | 101.01 | 223.47 | 152.92 | 259.62 | 158.26 | 121.48 |
| #1 | .00602 | -.00028 | .00048 | -.03745 | -.00054 | -.00002 | .00245 | .00000 | .00034 | .03178 | -.00069 |
| #2 | .00621 | .00339 | -.00219 | -.01639 | -.00020 | -.00013 | -.00055 | -.00006 | -.00115 | -.00179 | -.00005 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.00209** | W **-.00257** |
| Stddev | .00012 | .00096 |
| %RSD | 5.8105 | 37.220 |
| #1 | .00200 | -.00325 |
| #2 | .00217 | -.00189 |
| Check ? | Chk Pass | Chk Warn |
| High Limit | | .00238 |
| Low Limit | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5736.1** | **76722.** | **4027.2** |
| Stddev | 1.6 | 98. | 27.4 |
| %RSD | .02796 | .12818 | .68083 |
| #1 | 5737.2 | 76652. | 4007.8 |
| #2 | 5735.0 | 76791. | 4046.6 |

Sample Name: CCVL2062912 Acquired: 5/22/2013 0:38:04 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01028** | **.10296** | **.01397** | **.10109** | W **.01217** | **.00086** | **.10827** | **.19700** | **.00529** | **.01059** | **.01003** |
| Stddev | .00029 | .00022 | .00096 | .00056 | .00028 | .00003 | .00101 | .00425 | .00011 | .00029 | .00004 |
| %RSD | 2.8089 | .21275 | 6.8644 | .55380 | 2.3290 | 4.0063 | .92995 | 2.1570 | 2.1111 | 2.7048 | .42550 |
| #1 | .01008 | .10312 | .01465 | .10069 | .01237 | .00084 | .10899 | .20000 | .00521 | .01039 | .01006 |
| #2 | .01048 | .10281 | .01329 | .10148 | .01197 | .00089 | .10756 | .19399 | .00537 | .01079 | .01000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | | | | | | |
| Range | | | | | 20.000% | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01488** | **.08933** | **3.4281** | **.00829** | **.20944** | **.01048** | **.02017** | F **1.3522** | **.04109** | **2.9103** | W **.01117** |
| Stddev | .00002 | .00212 | .0031 | .00444 | .00408 | .00000 | .00005 | .0210 | .00002 | .0102 | .00131 |
| %RSD | .10232 | 2.3764 | .09166 | 53.585 | 1.9496 | .02112 | .23495 | 1.5500 | .04016 | .35137 | 11.750 |
| #1 | .01489 | .08783 | 3.4303 | .00515 | .21232 | .01048 | .02014 | 1.3671 | .04108 | 2.9031 | .01024 |
| #2 | .01487 | .09083 | 3.4259 | .01143 | .20655 | .01049 | .02020 | 1.3374 | .04110 | 2.9176 | .01210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| Value | | | | | | | | 1.0000 | | | .00900 |
| Range | | | | | | | | 30.000% | | | 20.000% |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00341** | **.01092** | **.01201** | **.45987** | **.10307** | **.01015** | **.01342** | **.01009** | **.01517** | F **.11006** | **.01009** |
| Stddev | .00355 | .00183 | .00247 | .01531 | .00021 | .00003 | .00434 | .00009 | .00108 | .04693 | .00064 |
| %RSD | 104.20 | 16.804 | 20.573 | 3.3300 | .20462 | .25901 | 32.367 | .87698 | 7.1074 | 42.640 | 6.3174 |
| #1 | .00591 | .01222 | .01375 | .47070 | .10293 | .01013 | .01035 | .01015 | .01441 | .14325 | .00964 |
| #2 | .00090 | .00962 | .01026 | .44904 | .10322 | .01017 | .01649 | .01002 | .01593 | .07688 | .01054 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | **.02379** | **.01275** |
| Stddev | .00002 | .00009 |
| %RSD | .10148 | .72064 |
| #1 | .02377 | .01282 |
| #2 | .02380 | .01269 |
| Check ? | Chk Pass | Chk Pass |
| Value | | |
| Range | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5722.4** | **76749.** | **4061.5** |
| Stddev | 6.5 | 37. | 37.0 |
| %RSD | .11304 | .04856 | .90990 |
| #1 | 5717.8 | 76723. | 4035.3 |
| #2 | 5727.0 | 76775. | 4087.6 |

Sample Name: mb 280-175121/1-a Acquired: 5/22/2013 0:40:28 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Q4 Custom ID2: Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **.01235** | **-.00171** | F **.03352** | **.00241** | **-.00006** | **-.00283** | **.06876** | **.00031** |
| Stddev | .00036 | .00019 | .00007 | .00010 | .00014 | .00008 | .00088 | .00301 | .00001 |
| %RSD | 76.607 | 1.5389 | 4.2007 | .28629 | 5.8617 | 142.02 | 31.076 | 4.3822 | 2.4581 |
| #1 | -.00071 | .01221 | -.00166 | .03346 | .00251 | -.00011 | -.00221 | .07089 | .00032 |
| #2 | -.00021 | .01248 | -.00176 | .03359 | .00231 | .00000 | -.00345 | .06663 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .01000 | | | | | |
| Low Limit | | | | -.01000 | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **-.00016** | **.00126** | **.01878** | **.17682** | **-.00339** | **.02027** | **.00046** | **.00043** |
| Stddev | .00003 | .00015 | .00012 | .00044 | .02191 | .00180 | .00016 | .00001 | .00001 |
| %RSD | 257.11 | 89.064 | 9.3434 | 2.3483 | 12.389 | 53.133 | .77198 | 3.2165 | 1.6381 |
| #1 | .00004 | -.00027 | .00118 | .01909 | .19231 | -.00467 | .02016 | .00047 | .00042 |
| #2 | -.00001 | -.00006 | .00134 | .01847 | .16133 | -.00212 | .02038 | .00045 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46284** | **-.00019** | W **.00768** | **.00166** | **.03498** | **.00085** | **.00007** | W **.06074** | **.00609** |
| Stddev | .00205 | .00001 | .00028 | .00086 | .00167 | .00067 | .00056 | .02204 | .00013 |
| %RSD | .44301 | 3.3528 | 3.6672 | 52.071 | 4.7716 | 78.737 | 823.46 | 36.281 | 2.0748 |
| #1 | .46429 | -.00018 | .00788 | .00227 | .03616 | .00132 | .00047 | .04516 | .00618 |
| #2 | .46139 | -.00019 | .00748 | .00105 | .03380 | .00038 | -.00033 | .07632 | .00600 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | .00500 | | | | | .05000 | |
| Low Limit | | | -.00500 | | | | | -.05000 | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00046** | **.00032** | **-.00032** | **.00769** | **.00043** | **.00472** | **.00008** |
| Stddev | .00008 | .00179 | .00053 | .00082 | .00201 | .00010 | .00008 | .00277 |
| %RSD | 64.842 | 389.41 | 162.57 | 257.06 | 26.187 | 23.185 | 1.7023 | 3527.5 |
| #1 | .00018 | .00173 | .00070 | -.00090 | .00627 | .00050 | .00467 | -.00188 |
| #2 | .00007 | -.00081 | -.00005 | .00026 | .00912 | .00036 | .00478 | .00204 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5802.7** | **78006.** | **4147.0** |
| Stddev | 6.5 | 396. | 40.2 |
| %RSD | .11275 | .50783 | .96968 |
| #1 | 5798.1 | 78286. | 4118.5 |
| #2 | 5807.3 | 77725. | 4175.4 |

Sample Name: lcs 280-175121/2-a Acquired: 5/22/2013 0:42:57 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Q4 Custom ID2: Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05278** | **1.9281** | **.94695** | **1.0993** | **2.0682** | **.04530** | **1.9938** | **45.861** | **.10215** |
| Stddev | .00051 | .0052 | .00967 | .0044 | .0036 | .00001 | .0093 | .097 | .00036 |
| %RSD | .96752 | .26697 | 1.0215 | .40303 | .17623 | .01371 | .46808 | .21058 | .35265 |
| #1 | .05314 | 1.9245 | .94011 | 1.0962 | 2.0656 | .04529 | 1.9872 | 45.793 | .10190 |
| #2 | .05242 | 1.9318 | .95379 | 1.1025 | 2.0707 | .04530 | 2.0004 | 45.930 | .10240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49226** | **.19501** | **.24578** | **.89136** | **54.718** | **1.0976** | **48.453** | **.49177** | **.97103** |
| Stddev | .00184 | .00059 | .00034 | .00895 | .028 | .0063 | .106 | .00014 | .00188 |
| %RSD | .37424 | .30061 | .14020 | 1.0046 | .05087 | .57635 | .21930 | .02942 | .19331 |
| #1 | .49096 | .19460 | .24554 | .89769 | 54.699 | 1.0931 | 48.528 | .49188 | .96970 |
| #2 | .49356 | .19543 | .24603 | .88503 | 54.738 | 1.1020 | 48.378 | .49167 | .97235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 818.326 { 41} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **56.983** | **.48236** | **9.5788** | **.49499** | **.03286** | **.48326** | **1.8735** | **2.5922** | **1.9344** |
| Stddev | .191 | .00050 | .0221 | .00115 | .00684 | .00004 | .0043 | .0050 | .0014 |
| %RSD | .33452 | .10311 | .23075 | .23184 | 20.816 | .00741 | .22907 | .19264 | .07133 |
| #1 | 56.848 | .48201 | 9.5631 | .49418 | .03770 | .48328 | 1.8705 | 2.5887 | 1.9354 |
| #2 | 57.118 | .48271 | 9.5944 | .49580 | .02803 | .48323 | 1.8765 | 2.5957 | 1.9334 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 56.000 | | | | | | | | |
| Low Limit | 45.000 | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96133** | **.99201** | **1.0030** | **1.9512** | **2.0704** | **.49055** | **.49121** | **.46928** |
| Stddev | .00043 | .00063 | .0000 | .0055 | .0285 | .00046 | .00145 | .00214 |
| %RSD | .04443 | .06339 | .00298 | .28230 | 1.3747 | .09356 | .29587 | .45610 |
| #1 | .96103 | .99156 | 1.0030 | 1.9551 | 2.0906 | .49087 | .49224 | .47079 |
| #2 | .96163 | .99245 | 1.0030 | 1.9473 | 2.0503 | .49023 | .49018 | .46777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | |
| Low Limit | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5586.3** | **74816.** | **4051.7** |
| Stddev | 21.1 | 276. | 7.0 |
| %RSD | .37830 | .36907 | .17228 |
| #1 | 5571.4 | 74621. | 4056.6 |
| #2 | 5601.3 | 75012. | 4046.8 |

Sample Name: 280-42412-a-19-a  Acquired: 5/22/2013 0:45:12  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00214** | **25.772** | **.02429** | **.01254** | **.32013** | **.00289** | **-.00488** | **5.4986** | **.00185** |
| Stddev | .00030 | .173 | .00159 | .00045 | .00283 | .00005 | .00059 | .0148 | .00020 |
| %RSD | 13.908 | .66989 | 6.5549 | 3.6246 | .88336 | 1.7471 | 12.067 | .26881 | 11.058 |
| #1 | -.00193 | 25.650 | .02317 | .01222 | .31813 | .00292 | -.00529 | 5.4882 | .00199 |
| #2 | -.00235 | 25.894 | .02542 | .01286 | .32213 | .00285 | -.00446 | 5.5091 | .00170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01065** | **.01685** | **.02374** | **27.902** | **6.5690** | **.02662** | **3.5487** | **1.2732** | **.00306** |
| Stddev | .00013 | .00003 | .00018 | .275 | .0116 | .00011 | .0022 | .0011 | .00012 |
| %RSD | 1.2254 | .19547 | .75313 | .98417 | .17724 | .42876 | .06280 | .08619 | 3.8455 |
| #1 | .01056 | .01683 | .02387 | 27.708 | 6.5607 | .02654 | 3.5503 | 1.2724 | .00315 |
| #2 | .01075 | .01687 | .02361 | 28.097 | 6.5772 | .02670 | 3.5471 | 1.2739 | .00298 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33229** | **.01161** | **1.1253** | **.61988** | **.68099** | **.00202** | **.00138** | **1.8580** | **.00623** |
| Stddev | .00192 | .00030 | .0040 | .00095 | .00070 | .00001 | .00135 | .0060 | .00104 |
| %RSD | .57843 | 2.5953 | .35217 | .15256 | .10264 | .57320 | 97.588 | .32432 | 16.730 |
| #1 | .33093 | .01139 | 1.1281 | .62055 | .68049 | .00203 | .00233 | 1.8623 | .00696 |
| #2 | .33365 | .01182 | 1.1225 | .61921 | .68148 | .00201 | .00043 | 1.8538 | .00549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04743** | **.06512** | **.70316** | **-.00503** | F **-.17496** | **.04666** | **.18384** | **.03419** |
| Stddev | .00003 | .00066 | .00253 | .00005 | .01533 | .00013 | .00121 | .00271 |
| %RSD | .06648 | 1.0126 | .35991 | .94900 | 8.7618 | .27771 | .65783 | 7.9260 |
| #1 | .04745 | .06558 | .70137 | -.00507 | -.18580 | .04657 | .18298 | .03610 |
| #2 | .04741 | .06465 | .70495 | -.00500 | -.16412 | .04675 | .18469 | .03227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6938.9** | **91952.** | **5004.9** |
| Stddev | 8.5 | 13. | 50.7 |
| %RSD | .12318 | .01372 | 1.0132 |
| #1 | 6944.9 | 91943. | 5040.7 |
| #2 | 6932.9 | 91961. | 4969.0 |

Sample Name: 280-42412-a-20-a  Acquired: 5/22/2013 0:47:33  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121  6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00136** | **7.7347** | **.01181** | **.00732** | **.15630** | **.00132** | **-.00067** | **2.5622** | **.00083** |
| Stddev | .00046 | .0621 | .00121 | .00080 | .00096 | .00003 | .00138 | .0015 | .00013 |
| %RSD | 33.976 | .80265 | 10.278 | 10.980 | .61712 | 2.6081 | 207.74 | .06002 | 15.277 |
| #1 | -.00168 | 7.6908 | .01095 | .00789 | .15561 | .00135 | -.00164 | 2.5611 | .00092 |
| #2 | -.00103 | 7.7786 | .01267 | .00675 | .15698 | .00130 | .00031 | 2.5633 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00523** | **.00631** | **.00950** | **12.655** | **2.4197** | **.00534** | **1.1890** | **1.4282** | **.00253** |
| Stddev | .00026 | .00014 | .00019 | .088 | .0290 | .00191 | .0074 | .0045 | .00022 |
| %RSD | 4.9702 | 2.1970 | 2.0097 | .69601 | 1.1986 | 35.881 | .61976 | .31207 | 8.7876 |
| #1 | .00542 | .00641 | .00963 | 12.593 | 2.3992 | .00669 | 1.1942 | 1.4314 | .00237 |
| #2 | .00505 | .00621 | .00936 | 12.718 | 2.4402 | .00398 | 1.1838 | 1.4251 | .00268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28529** | **.00421** | **.43644** | **.07542** | **.30379** | **-.00082** | **-.00162** | **1.2938** | **.00496** |
| Stddev | .00336 | .00001 | .00249 | .00125 | .00514 | .00004 | .00055 | .0045 | .00053 |
| %RSD | 1.1783 | .25302 | .57006 | 1.6580 | 1.6922 | 5.2828 | 34.186 | .34727 | 10.694 |
| #1 | .28767 | .00422 | .43820 | .07454 | .30743 | -.00079 | -.00123 | 1.2906 | .00533 |
| #2 | .28292 | .00421 | .43468 | .07631 | .30016 | -.00085 | -.00201 | 1.2969 | .00458 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01898** | **.05356** | **.33755** | **-.00340** | F **-.10227** | **.01673** | **.08690** | **.02493** |
| Stddev | .00009 | .00138 | .00119 | .00026 | .00357 | .00016 | .00035 | .00106 |
| %RSD | .48691 | 2.5855 | .35272 | 7.5334 | 3.4917 | .97846 | .40046 | 4.2690 |
| #1 | .01905 | .05258 | .33839 | -.00358 | -.09974 | .01662 | .08714 | .02569 |
| #2 | .01892 | .05454 | .33671 | -.00322 | -.10479 | .01685 | .08665 | .02418 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6344.5** | **84571.** | **4513.0** |
| Stddev | 16.4 | 467. | 30.9 |
| %RSD | .25876 | .55273 | .68560 |
| #1 | 6332.9 | 84241. | 4534.8 |
| #2 | 6356.1 | 84902. | 4491.1 |

Sample Name: 280-42412-a-21-a  Acquired: 5/22/2013 0:49:58  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121  6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00108** | **16.291** | **.01481** | **.00874** | **.20376** | **.00184** | **-.00370** | **2.9613** | **.00067** |
| Stddev | .00056 | .007 | .00066 | .00035 | .00034 | .00002 | .00051 | .0060 | .00004 |
| %RSD | 52.246 | .04330 | 4.4338 | 3.9561 | .16494 | 1.2560 | 13.831 | .20280 | 6.2020 |
| #1 | -.00148 | 16.286 | .01527 | .00898 | .20352 | .00186 | -.00334 | 2.9655 | .00064 |
| #2 | -.00068 | 16.296 | .01434 | .00849 | .20400 | .00182 | -.00406 | 2.9570 | .00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00725** | **.01067** | **.01411** | **18.193** | **4.2986** | **.01740** | **2.1055** | **.56744** | **.00172** |
| Stddev | .00015 | .00017 | .00041 | .009 | .0095 | .00214 | .0023 | .00005 | .00008 |
| %RSD | 2.1089 | 1.6120 | 2.8839 | .05066 | .22058 | 12.295 | .10930 | .00962 | 4.5143 |
| #1 | .00715 | .01055 | .01382 | 18.187 | 4.3053 | .01892 | 2.1071 | .56748 | .00166 |
| #2 | .00736 | .01079 | .01440 | 18.200 | 4.2919 | .01589 | 2.1039 | .56740 | .00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28762** | **.00668** | **.69466** | **.23755** | **.40817** | **-.00066** | **-.00160** | **2.0082** | **.00550** |
| Stddev | .01692 | .00019 | .00303 | .00071 | .00028 | .00007 | .00195 | .0109 | .00085 |
| %RSD | 5.8845 | 2.8781 | .43556 | .29956 | .06956 | 10.462 | 121.72 | .54418 | 15.462 |
| #1 | .29958 | .00681 | .69252 | .23705 | .40837 | -.00061 | -.00298 | 2.0005 | .00490 |
| #2 | .27565 | .00654 | .69680 | .23806 | .40797 | -.00070 | -.00022 | 2.0159 | .00610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02415** | **.05776** | **.55355** | **-.00205** | W **-.09294** | **.03229** | **.12375** | **.03441** |
| Stddev | .00014 | .00010 | .00077 | .00053 | .02002 | .00012 | .00073 | .00061 |
| %RSD | .56223 | .16488 | .13823 | 25.711 | 21.538 | .38027 | .59328 | 1.7680 |
| #1 | .02424 | .05769 | .55301 | -.00242 | -.10709 | .03220 | .12427 | .03484 |
| #2 | .02405 | .05782 | .55409 | -.00167 | -.07878 | .03237 | .12323 | .03398 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6701.2** | **88376.** | **4805.5** |
| Stddev | 10.4 | 76. | 18.0 |
| %RSD | .15501 | .08592 | .37372 |
| #1 | 6708.5 | 88322. | 4818.2 |
| #2 | 6693.8 | 88430. | 4792.8 |

Sample Name: 280-42412-a-22-a  Acquired: 5/22/2013 0:52:21  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121  6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00216** | **8.1487** | **.01161** | **.00643** | **.11829** | **.00135** | **-.00220** | **1.9187** | **.00041** |
| Stddev | .00025 | .0272 | .00046 | .00026 | .00052 | .00021 | .00069 | .0050 | .00020 |
| %RSD | 11.438 | .33415 | 3.9937 | 4.0065 | .43644 | 15.409 | 31.153 | .26239 | 49.236 |
| #1 | -.00234 | 8.1680 | .01194 | .00661 | .11792 | .00120 | -.00269 | 1.9223 | .00027 |
| #2 | -.00199 | 8.1295 | .01128 | .00624 | .11865 | .00150 | -.00172 | 1.9152 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00804** | **.00362** | **.00509** | **11.779** | **2.5756** | **.00563** | **.96604** | **.45562** | **.00145** |
| Stddev | .00018 | .00001 | .00004 | .023 | .0618 | .00123 | .00214 | .00178 | .00020 |
| %RSD | 2.1857 | .33950 | .69135 | .19639 | 2.3984 | 21.774 | .22151 | .39044 | 13.511 |
| #1 | .00816 | .00363 | .00507 | 11.795 | 2.6193 | .00476 | .96453 | .45436 | .00158 |
| #2 | .00791 | .00361 | .00512 | 11.763 | 2.5320 | .00650 | .96756 | .45688 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29639** | **.00528** | **.28876** | **.05886** | **.14129** | **-.00343** | **-.00300** | **1.6853** | **.00426** |
| Stddev | .00784 | .00015 | .00069 | .00007 | .00335 | .00122 | .00099 | .0134 | .00021 |
| %RSD | 2.6460 | 2.8029 | .23925 | .12658 | 2.3696 | 35.636 | 32.969 | .79342 | 5.0075 |
| #1 | .29084 | .00538 | .28924 | .05881 | .14366 | -.00256 | -.00230 | 1.6947 | .00441 |
| #2 | .30193 | .00518 | .28827 | .05892 | .13893 | -.00429 | -.00370 | 1.6758 | .00411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01101** | **.05124** | **.35393** | **-.00396** | F **-.11279** | **.01829** | **.07389** | **.03387** |
| Stddev | .00002 | .00078 | .00316 | .00023 | .01528 | .00002 | .00010 | .00130 |
| %RSD | .19370 | 1.5182 | .89286 | 5.7723 | 13.548 | .11085 | .13118 | 3.8508 |
| #1 | .01102 | .05179 | .35169 | -.00412 | -.10198 | .01827 | .07396 | .03479 |
| #2 | .01099 | .05069 | .35616 | -.00380 | -.12359 | .01830 | .07382 | .03295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6505.8** | **86473.** | **4578.8** |
| Stddev | 15.0 | 38. | 18.5 |
| %RSD | .23099 | .04365 | .40446 |
| #1 | 6495.2 | 86500. | 4565.7 |
| #2 | 6516.4 | 86446. | 4591.9 |

Sample Name: 280-42412-a-23-a  Acquired: 5/22/2013 0:54:47  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00137** | **17.365** | **.01803** | **.00984** | **.25504** | **.00197** | **-.00447** | **5.4120** | **.00121** |
| Stddev | .00006 | .122 | .00001 | .00012 | .00007 | .00009 | .00271 | .0348 | .00017 |
| %RSD | 4.1914 | .70239 | .04748 | 1.2393 | .02837 | 4.6421 | 60.674 | .64270 | 13.895 |
| #1 | -.00133 | 17.278 | .01803 | .00976 | .25499 | .00203 | -.00638 | 5.4366 | .00109 |
| #2 | -.00142 | 17.451 | .01804 | .00993 | .25509 | .00190 | -.00255 | 5.3874 | .00133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00813** | **.01212** | **.01826** | **20.391** | **4.5634** | **.01669** | **2.5392** | **.99063** | **.00189** |
| Stddev | .00005 | .00000 | .00025 | .023 | .0967 | .00111 | .0001 | .00016 | .00007 |
| %RSD | .64081 | .00461 | 1.3858 | .11340 | 2.1188 | 6.6469 | .00593 | .01630 | 3.5810 |
| #1 | .00809 | .01213 | .01844 | 20.407 | 4.6318 | .01591 | 2.5391 | .99051 | .00184 |
| #2 | .00816 | .01212 | .01808 | 20.375 | 4.4950 | .01747 | 2.5393 | .99074 | .00194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30542** | **.00802** | **.78383** | **.19566** | **.63011** | **-.00196** | **.00078** | **1.6887** | **.00633** |
| Stddev | .01894 | .00032 | .00133 | .00043 | .00210 | .00107 | .00349 | .0228 | .00018 |
| %RSD | 6.2027 | 3.9757 | .16953 | .21861 | .33291 | 54.709 | 447.13 | 1.3526 | 2.8013 |
| #1 | .31881 | .00824 | .78477 | .19536 | .63159 | -.00272 | .00324 | 1.7049 | .00646 |
| #2 | .29202 | .00779 | .78289 | .19596 | .62862 | -.00120 | -.00169 | 1.6726 | .00621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03835** | **.05784** | **.57638** | **-.00298** | F **-.12049** | **.03224** | **.14974** | **.03206** |
| Stddev | .00044 | .00138 | .00162 | .00021 | .00537 | .00041 | .00015 | .00329 |
| %RSD | 1.1407 | 2.3791 | .28028 | 7.0178 | 4.4550 | 1.2652 | .09877 | 10.257 |
| #1 | .03866 | .05686 | .57524 | -.00313 | -.11670 | .03252 | .14963 | .02973 |
| #2 | .03804 | .05881 | .57752 | -.00284 | -.12429 | .03195 | .14984 | .03438 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6476.3** | **86134.** | **4609.3** |
| Stddev | 8.7 | 101. | 2.9 |
| %RSD | .13495 | .11749 | .06384 |
| #1 | 6470.1 | 86062. | 4607.3 |
| #2 | 6482.4 | 86205. | 4611.4 |

Sample Name: CCVH-2058327 Acquired: 5/22/2013 0:57:11 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00155** | **47.333** | **-.00186** | **.00397** | **.00201** | **-.00010** | **.96316** | **.00353** | **-.00065** | **.00175** | **-.00031** | **.00130** |
| Stddev | .00056 | .191 | .00007 | .00025 | .00020 | .00005 | .00078 | .00233 | .00009 | .00001 | .00009 | .00002 |
| %RSD | 36.137 | .40399 | 3.7876 | 6.2042 | 9.8184 | 46.548 | .08106 | 65.877 | 14.331 | .70546 | 27.892 | 1.4209 |
| #1 | .00195 | 47.198 | -.00181 | .00380 | .00187 | -.00007 | .96261 | .00189 | -.00058 | .00174 | -.00025 | .00132 |
| #2 | .00115 | 47.469 | -.00191 | .00415 | .00215 | -.00014 | .96372 | .00518 | -.00071 | .00176 | -.00037 | .00129 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.543** | **.07040** | **-.00391** | **-.00517** | **-.00069** | **-.00130** | F **276.54** | **.00093** | **.00188** | **.00039** | **4.6889** | **-.00100** |
| Stddev | .022 | .04238 | .00073 | .00242 | .00001 | .00010 | .19 | .00035 | .00040 | .00070 | .0143 | .00074 |
| %RSD | .04754 | 60.206 | 18.654 | 46.696 | .95190 | 7.7026 | .06916 | 37.163 | 21.517 | 176.56 | .30462 | 73.913 |
| #1 | 45.558 | .10037 | -.00443 | -.00688 | -.00068 | -.00123 | 276.68 | .00069 | .00159 | .00089 | 4.6788 | -.00152 |
| #2 | 45.528 | .04043 | -.00340 | -.00347 | -.00069 | -.00137 | 276.41 | .00118 | .00216 | -.00010 | 4.6990 | -.00048 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00369** | **.00598** | **-.00015** | **.00015** | **5.0211** | **.00244** | **-.00139** | **9.7915** | **-.00002** | **.00317** | **-.04280** |
| Stddev | .00052 | .01261 | .00066 | .00010 | .0060 | .00018 | .00015 | .0165 | .00051 | .00026 | .00165 |
| %RSD | 14.197 | 210.91 | 425.25 | 65.310 | .11886 | 7.3760 | 10.516 | .16833 | 2410.9 | 8.0758 | 3.8503 |
| #1 | -.00332 | -.00294 | -.00062 | .00008 | 5.0169 | .00257 | -.00128 | 9.7798 | -.00038 | .00335 | -.04396 |
| #2 | -.00406 | .01490 | .00031 | .00023 | 5.0253 | .00232 | -.00149 | 9.8031 | .00034 | .00299 | -.04163 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5690.0** | **74996.** | **4051.7** |
| Stddev | 5.4 | 195. | 27.0 |
| %RSD | .09428 | .25977 | .66643 |
| #1 | 5693.8 | 74858. | 4070.7 |
| #2 | 5686.2 | 75133. | 4032.6 |

Sample Name: CCV-2058325 Acquired: 5/22/2013 0:59:35 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50796** | **.48793** | **.95865** | **.47678** | **.52181** | **.45267** | **.00033** | **4.7656** | **.49941** | **.50438** | **.48948** | **.48481** |
| Stddev | .00020 | .00135 | .00152 | .00051 | .00060 | .00030 | .00019 | .0136 | .00029 | .00045 | .00017 | .00013 |
| %RSD | .03844 | .27650 | .15872 | .10672 | .11430 | .06583 | 56.590 | .28429 | .05881 | .08850 | .03409 | .02589 |
| #1 | .50810 | .48888 | .95973 | .47642 | .52139 | .45289 | .00046 | 4.7560 | .49920 | .50406 | .48959 | .48472 |
| #2 | .50782 | .48697 | .95758 | .47714 | .52223 | .45246 | .00020 | 4.7752 | .49961 | .50469 | .48936 | .48490 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2378** | F **55.623** | F **1.1212** | **19.708** | **.50088** | **.48475** | F **5.5481** | **.49532** | **.93809** | **1.0047** | **.00001** | **.97900** |
| Stddev | .0024 | .068 | .0076 | .020 | .00004 | .00010 | .0195 | .00004 | .00131 | .0013 | .00009 | .00407 |
| %RSD | .10856 | .12307 | .67446 | .10015 | .00832 | .02166 | .35100 | .00719 | .13964 | .12894 | 620.16 | .41568 |
| #1 | 2.2396 | 55.575 | 1.1158 | 19.722 | .50085 | .48482 | 5.5619 | .49530 | .93717 | 1.0057 | -.00005 | .97612 |
| #2 | 2.2361 | 55.672 | 1.1265 | 19.695 | .50091 | .48467 | 5.5343 | .49535 | .93902 | 1.0038 | .00008 | .98188 |
| Check ? | Chk Fail | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | 2.5000 | 50.000 | 1.0000 | | | | 5.0000 | | | | | |
| Range | -10.000% | 10.000% | 10.000% | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.93267** | **4.6088** | **.97431** | **.48620** | **.00051** | **.50171** | **.99140** | **.01575** | **.48697** | **.50519** | **.48288** |
| Stddev | .00237 | .0277 | .00085 | .00014 | .00122 | .00049 | .00146 | .00366 | .00184 | .00046 | .00197 |
| %RSD | .25364 | .60044 | .08712 | .02965 | 236.60 | .09760 | .14678 | 23.236 | .37822 | .09059 | .40724 |
| #1 | .93434 | 4.5892 | .97371 | .48631 | .00137 | .50206 | .99037 | .01316 | .48827 | .50552 | .48148 |
| #2 | .93100 | 4.6283 | .97491 | .48610 | -.00035 | .50137 | .99243 | .01834 | .48567 | .50487 | .48427 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5724.3** | **75799.** | **3997.1** |
| Stddev | 3.3 | 230. | 28.0 |
| %RSD | .05811 | .30407 | .69978 |
| #1 | 5721.9 | 75636. | 3977.4 |
| #2 | 5726.6 | 75962. | 4016.9 |

Sample Name: CCB Acquired: 5/22/2013 1:01:49 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **-.00060** | **.00084** | F **.00342** | F **.00151** | **.00004** | **-.00039** | **.00003** | **.00010** | **-.00009** | **-.00014** | **-.00068** |
| Stddev | .00056 | .00016 | .00081 | .00011 | .00024 | .00014 | .00237 | .00246 | .00007 | .00024 | .00022 | .00037 |
| %RSD | 61.861 | 26.754 | 95.468 | 3.1336 | 16.121 | 318.15 | 605.29 | 7144.7 | 72.006 | 260.26 | 158.14 | 54.452 |
| #1 | -.00130 | -.00071 | .00141 | .00334 | .00134 | -.00005 | .00128 | -.00170 | .00015 | .00008 | .00002 | -.00042 |
| #2 | -.00051 | -.00048 | .00027 | .00349 | .00168 | .00014 | -.00207 | .00177 | .00005 | -.00027 | -.00030 | -.00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00312 | .00115 | | | | | | | |
| Low Limit | | | | -.00312 | -.00115 | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.07504** | **-.00209** | **.00251** | **.00010** | **.00037** | F **.12615** | **-.00055** | **.00125** | **.00156** | **.00043** | **.00096** |
| Stddev | .00195 | .00908 | .00152 | .00287 | .00006 | .00018 | .01670 | .00001 | .00006 | .00143 | .00034 | .00040 |
| %RSD | 201.67 | 12.096 | 72.999 | 114.29 | 62.587 | 48.444 | 13.241 | 1.7282 | 4.8187 | 92.199 | 78.648 | 42.117 |
| #1 | .00234 | .06863 | -.00317 | .00454 | .00014 | .00024 | .11434 | -.00054 | .00130 | .00054 | .00019 | .00067 |
| #2 | -.00041 | .08146 | -.00101 | .00048 | .00005 | .00050 | .13796 | -.00056 | .00121 | .00257 | .00067 | .00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | .10000 | | | | | |
| Low Limit | | | | | | | -.10000 | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00175** | **.01064** | **-.00014** | **-.00011** | **-.00167** | **-.00019** | **.00083** | **.00896** | **.00020** | **.00251** | **-.00172** |
| Stddev | .00218 | .01889 | .00002 | .00026 | .00040 | .00026 | .00026 | .03354 | .00072 | .00050 | .00274 |
| %RSD | 124.44 | 177.51 | 17.317 | 236.13 | 23.966 | 139.03 | 31.331 | 374.12 | 363.15 | 19.939 | 159.74 |
| #1 | -.00021 | -.00272 | -.00012 | -.00030 | -.00195 | -.00000 | .00101 | .03268 | -.00031 | .00287 | -.00365 |
| #2 | -.00330 | .02399 | -.00016 | .00007 | -.00139 | -.00037 | .00064 | -.01475 | .00071 | .00216 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5726.1** | **76548.** | **3998.5** |
| Stddev | 10.6 | 78. | 3.4 |
| %RSD | .18435 | .10159 | .08588 |
| #1 | 5718.6 | 76493. | 4001.0 |
| #2 | 5733.6 | 76603. | 3996.1 |

Sample Name: CCVL2062912 Acquired: 5/22/2013 1:04:18 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01015** | **.10073** | **.01418** | **.09858** | W **.01208** | W **.00079** | **.10680** | **.18979** | **.00539** | **.01058** | **.00996** |
| Stddev | .00036 | .00021 | .00062 | .00027 | .00037 | .00006 | .00113 | .00056 | .00018 | .00010 | .00016 |
| %RSD | 3.5486 | .21146 | 4.3584 | .26979 | 3.1021 | 7.6431 | 1.0533 | .29533 | 3.2828 | .98521 | 1.6257 |
| #1 | .00990 | .10058 | .01375 | .09877 | .01182 | .00075 | .10760 | .19018 | .00527 | .01051 | .01007 |
| #2 | .01041 | .10088 | .01462 | .09839 | .01235 | .00084 | .10601 | .18939 | .00552 | .01066 | .00984 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | .01000 | .00100 | | | | | |
| Range | | | | | 20.000% | -20.000% | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01456** | **.09044** | **3.4677** | **.00959** | **.20926** | **.01051** | **.02009** | W **1.2782** | **.04111** | **2.8526** | **.01058** |
| Stddev | .00011 | .00171 | .0483 | .00002 | .00115 | .00002 | .00023 | .0105 | .00029 | .0238 | .00040 |
| %RSD | .74005 | 1.8864 | 1.3944 | .16085 | .54861 | .17204 | 1.1395 | .82369 | .69380 | .83497 | 3.8244 |
| #1 | .01463 | .08923 | 3.4335 | .00960 | .20845 | .01052 | .01993 | 1.2856 | .04091 | 2.8358 | .01030 |
| #2 | .01448 | .09164 | 3.5019 | .00958 | .21007 | .01050 | .02025 | 1.2707 | .04132 | 2.8695 | .01087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | 1.0000 | | | |
| Range | | | | | | | | 20.000% | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00198** | **.00864** | **.01305** | **.47018** | **.10149** | **.00997** | **.01465** | **.01030** | **.01625** | F **.08134** | **.00993** |
| Stddev | .00072 | .00047 | .00308 | .02707 | .00116 | .00023 | .00056 | .00014 | .00106 | .00254 | .00044 |
| %RSD | 36.163 | 5.3972 | 23.625 | 5.7580 | 1.1410 | 2.2777 | 3.8041 | 1.3631 | 6.5079 | 3.1246 | 4.4061 |
| #1 | .00148 | .00831 | .01087 | .48933 | .10067 | .00981 | .01426 | .01020 | .01700 | .07955 | .01024 |
| #2 | .00249 | .00897 | .01523 | .45104 | .10231 | .01014 | .01505 | .01040 | .01550 | .08314 | .00962 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | | .06000 | |
| Range | | | | | | | | | | 30.000% | |

| Elem | Zn2062 | Zr3391 |
|---|---|---|
| Units | ppm | ppm |
| Avg | W **.02403** | **.01241** |
| Stddev | .00016 | .00161 |
| %RSD | .65251 | 12.956 |
| #1 | .02392 | .01354 |
| #2 | .02414 | .01127 |
| Check ? | Chk Warn | Chk Pass |
| Value | .02000 | |
| Range | 20.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5782.0** | **77566.** | **4072.8** |
| Stddev | 12.4 | 76. | 2.4 |
| %RSD | .21359 | .09845 | .05968 |
| #1 | 5773.2 | 77620. | 4074.5 |
| #2 | 5790.7 | 77512. | 4071.1 |

Sample Name: 280-42412-a-24-a  Acquired: 5/22/2013 1:06:42  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121  6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00143** | **9.4879** | **.01013** | **.00651** | **.56650** | **.00150** | **-.00171** | **2.8201** | **.00087** |
| Stddev | .00009 | .0897 | .00274 | .00010 | .00768 | .00012 | .00161 | .0158 | .00010 |
| %RSD | 6.3238 | .94565 | 27.002 | 1.5669 | 1.3565 | 7.9319 | 93.673 | .55883 | 11.224 |
| #1 | -.00137 | 9.5514 | .01207 | .00658 | .57193 | .00142 | -.00285 | 2.8312 | .00080 |
| #2 | -.00150 | 9.4245 | .00820 | .00644 | .56106 | .00159 | -.00058 | 2.8090 | .00093 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02080** | **.00637** | **.01156** | **13.766** | **2.8140** | **.00882** | **1.3519** | **2.6026** | **.00473** |
| Stddev | .00025 | .00010 | .00015 | .174 | .0718 | .00197 | .0034 | .0004 | .00008 |
| %RSD | 1.2169 | 1.5375 | 1.2810 | 1.2630 | 2.5521 | 22.317 | .25213 | .01494 | 1.6886 |
| #1 | .02062 | .00644 | .01146 | 13.889 | 2.8648 | .00743 | 1.3544 | 2.6023 | .00478 |
| #2 | .02098 | .00630 | .01167 | 13.643 | 2.7632 | .01021 | 1.3495 | 2.6028 | .00467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25779** | **.00520** | **.34688** | **.33493** | **.26004** | **-.00003** | **.00033** | **1.3269** | **.00429** |
| Stddev | .00169 | .00030 | .00366 | .00025 | .00021 | .00063 | .00423 | .0087 | .00071 |
| %RSD | .65369 | 5.8582 | 1.0552 | .07422 | .08034 | 1850.7 | 1264.6 | .65827 | 16.542 |
| #1 | .25898 | .00499 | .34429 | .33475 | .25989 | .00041 | .00332 | 1.3331 | .00480 |
| #2 | .25660 | .00542 | .34947 | .33510 | .26019 | -.00048 | -.00266 | 1.3207 | .00379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02388** | **.05146** | **.36386** | **-.00379** | F **-.10781** | **.02269** | **.10164** | **.03539** |
| Stddev | .00010 | .00001 | .00024 | .00034 | .02685 | .00028 | .00004 | .00048 |
| %RSD | .41536 | .02009 | .06498 | 8.8863 | 24.903 | 1.2360 | .04343 | 1.3429 |
| #1 | .02395 | .05145 | .36369 | -.00356 | -.12680 | .02289 | .10167 | .03572 |
| #2 | .02381 | .05146 | .36402 | -.00403 | -.08883 | .02249 | .10161 | .03505 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6340.8** | **84944.** | **4542.3** |
| Stddev | 10.8 | 257. | 58.0 |
| %RSD | .17002 | .30255 | 1.2758 |
| #1 | 6348.4 | 84762. | 4501.3 |
| #2 | 6333.1 | 85125. | 4583.3 |

Sample Name: 280-42412-a-25-a  Acquired: 5/22/2013 1:09:06  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00118** | **23.540** | **.01719** | **.01113** | **.38563** | **.00201** | **-.00057** | **7.0015** | **.00190** |
| Stddev | .00016 | .010 | .00295 | .00049 | .00042 | .00012 | .00081 | .0135 | .00001 |
| %RSD | 13.899 | .04261 | 17.140 | 4.4067 | .10823 | 5.9218 | 140.76 | .19207 | .59436 |
| #1 | -.00129 | 23.533 | .01511 | .01148 | .38533 | .00192 | -.00000 | 7.0110 | .00191 |
| #2 | -.00106 | 23.547 | .01928 | .01078 | .38592 | .00209 | -.00115 | 6.9920 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01105** | **.01826** | **.02551** | **25.353** | **6.0870** | **.02148** | **3.6870** | **1.3774** | **.00190** |
| Stddev | .00005 | .00002 | .00043 | .035 | .0001 | .00189 | .0041 | .0010 | .00020 |
| %RSD | .44522 | .11906 | 1.6849 | .13838 | .00153 | 8.8037 | .11152 | .07145 | 10.713 |
| #1 | .01101 | .01824 | .02581 | 25.378 | 6.0870 | .02014 | 3.6899 | 1.3767 | .00205 |
| #2 | .01108 | .01828 | .02521 | 25.328 | 6.0869 | .02282 | 3.6841 | 1.3781 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33307** | **.01429** | **1.0165** | **.27137** | **.88546** | **.00068** | **-.00110** | **1.5838** | **.00628** |
| Stddev | .01843 | .00011 | .0057 | .00130 | .00312 | .00030 | .00059 | .0054 | .00021 |
| %RSD | 5.5341 | .80476 | .56268 | .47812 | .35249 | 44.316 | 53.955 | .34150 | 3.3572 |
| #1 | .32004 | .01437 | 1.0205 | .27228 | .88325 | .00089 | -.00151 | 1.5800 | .00643 |
| #2 | .34610 | .01420 | 1.0125 | .27045 | .88767 | .00047 | -.00068 | 1.5876 | .00613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05425** | **.04549** | **.70091** | **-.00152** | W **-.06824** | **.04125** | **.16946** | **.02814** |
| Stddev | .00061 | .00316 | .00249 | .00023 | .01400 | .00003 | .00136 | .00076 |
| %RSD | 1.1305 | 6.9531 | .35511 | 14.965 | 20.515 | .06756 | .80042 | 2.6876 |
| #1 | .05382 | .04772 | .69915 | -.00168 | -.07814 | .04123 | .16850 | .02760 |
| #2 | .05469 | .04325 | .70267 | -.00136 | -.05834 | .04127 | .17042 | .02867 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 45.000 | | | |
| Low Limit | | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6418.4** | **85249.** | **4557.9** |
| Stddev | 6.2 | 475. | 30.6 |
| %RSD | .09671 | .55684 | .67213 |
| #1 | 6422.8 | 85584. | 4536.2 |
| #2 | 6414.0 | 84913. | 4579.6 |

Sample Name: 280-42412-a-26-a  Acquired: 5/22/2013 1:11:28  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00110** | **9.0377** | **.01191** | **.00517** | **.11781** | **.00132** | **-.00255** | **1.2749** | **.00020** |
| Stddev | .00022 | .0417 | .00170 | .00005 | .00104 | .00005 | .00176 | .0019 | .00003 |
| %RSD | 20.367 | .46148 | 14.315 | 1.0255 | .87918 | 3.6560 | 69.191 | .14886 | 17.548 |
| #1 | -.00094 | 9.0082 | .01070 | .00520 | .11708 | .00136 | -.00130 | 1.2762 | .00022 |
| #2 | -.00126 | 9.0672 | .01311 | .00513 | .11854 | .00129 | -.00379 | 1.2735 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00543** | **.00547** | **.00474** | **12.937** | **2.5470** | **.00988** | **1.1183** | **.24888** | **.00113** |
| Stddev | .00029 | .00008 | .00063 | .066 | .0121 | .00196 | .0050 | .00046 | .00014 |
| %RSD | 5.4195 | 1.4275 | 13.352 | .50853 | .47517 | 19.869 | .45109 | .18596 | 12.095 |
| #1 | .00564 | .00541 | .00518 | 12.891 | 2.5555 | .00849 | 1.1148 | .24855 | .00123 |
| #2 | .00522 | .00552 | .00429 | 12.984 | 2.5384 | .01127 | 1.1219 | .24920 | .00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25461** | **.00414** | **.32421** | **.04512** | **.13627** | **-.00123** | **.00254** | **1.3200** | **.00454** |
| Stddev | .00179 | .00016 | .00317 | .00034 | .00144 | .00182 | .00174 | .0096 | .00085 |
| %RSD | .70467 | 3.7660 | .97686 | .75439 | 1.0585 | 148.20 | 68.398 | .72757 | 18.742 |
| #1 | .25334 | .00403 | .32197 | .04537 | .13525 | .00006 | .00377 | 1.3132 | .00393 |
| #2 | .25588 | .00425 | .32645 | .04488 | .13729 | -.00252 | .00131 | 1.3268 | .00514 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01104** | **.05275** | **.42808** | **-.00284** | F **-.11701** | **.01978** | **.06162** | **.03527** |
| Stddev | .00007 | .00061 | .00067 | .00038 | .00826 | .00044 | .00014 | .00144 |
| %RSD | .60909 | 1.1487 | .15629 | 13.477 | 7.0617 | 2.2377 | .22707 | 4.0941 |
| #1 | .01100 | .05317 | .42760 | -.00257 | -.11116 | .01946 | .06152 | .03629 |
| #2 | .01109 | .05232 | .42855 | -.00311 | -.12285 | .02009 | .06172 | .03425 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6426.7** | **86092.** | **4560.8** |
| Stddev | 5.0 | 233. | 23.5 |
| %RSD | .07705 | .27112 | .51474 |
| #1 | 6430.2 | 86257. | 4577.4 |
| #2 | 6423.2 | 85927. | 4544.2 |

Sample Name: 280-42412-a-27-a  Acquired: 5/22/2013 1:13:53  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00151** | **9.7772** | **.01334** | **.00621** | **.27666** | **.00143** | **-.00247** | **1.7729** | **.00060** |
| Stddev | .00016 | .0101 | .00155 | .00030 | .00059 | .00008 | .00107 | .0096 | .00006 |
| %RSD | 10.832 | .10360 | 11.586 | 4.8581 | .21498 | 5.2370 | 43.135 | .54323 | 10.629 |
| #1 | -.00163 | 9.7701 | .01224 | .00599 | .27708 | .00149 | -.00323 | 1.7797 | .00065 |
| #2 | -.00140 | 9.7844 | .01443 | .00642 | .27624 | .00138 | -.00172 | 1.7661 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00877** | **.00556** | **.01070** | **13.753** | **2.7570** | **.00942** | **1.2757** | **1.1843** | **.00274** |
| Stddev | .00012 | .00011 | .00028 | .045 | .0287 | .00097 | .0024 | .0024 | .00013 |
| %RSD | 1.4113 | 2.0413 | 2.6613 | .33075 | 1.0404 | 10.297 | .18856 | .20663 | 4.6362 |
| #1 | .00869 | .00564 | .01090 | 13.785 | 2.7772 | .01011 | 1.2774 | 1.1860 | .00283 |
| #2 | .00886 | .00548 | .01050 | 13.721 | 2.7367 | .00873 | 1.2740 | 1.1825 | .00265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25873** | **.00438** | **.34696** | **.13414** | **.18914** | **-.00228** | **-.00410** | **1.5718** | **.00497** |
| Stddev | .01928 | .00033 | .00035 | .00088 | .00071 | .00038 | .00203 | .0259 | .00034 |
| %RSD | 7.4515 | 7.4830 | .10183 | .65785 | .37638 | 16.682 | 49.456 | 1.6465 | 6.8291 |
| #1 | .27236 | .00415 | .34671 | .13476 | .18864 | -.00201 | -.00267 | 1.5901 | .00473 |
| #2 | .24510 | .00461 | .34721 | .13351 | .18964 | -.00255 | -.00553 | 1.5535 | .00521 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02143** | **.06189** | **.47901** | **-.00519** | F **-.15108** | **.02139** | **.08742** | **.03448** |
| Stddev | .00026 | .00065 | .00118 | .00007 | .02767 | .00033 | .00031 | .00197 |
| %RSD | 1.2161 | 1.0513 | .24626 | 1.4081 | 18.312 | 1.5198 | .35109 | 5.7116 |
| #1 | .02162 | .06143 | .47985 | -.00525 | -.13151 | .02162 | .08764 | .03309 |
| #2 | .02125 | .06235 | .47818 | -.00514 | -.17064 | .02116 | .08721 | .03587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6442.5** | **86097.** | **4548.9** |
| Stddev | 3.0 | 249. | 10.8 |
| %RSD | .04672 | .28920 | .23827 |
| #1 | 6440.4 | 85921. | 4556.5 |
| #2 | 6444.6 | 86273. | 4541.2 |

Sample Name: 280-42412-a-28-a  Acquired: 5/22/2013 1:16:17  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00112** | **15.833** | **.01337** | **.00791** | **.23454** | **.00186** | **-.00064** | **3.4043** | **.00082** |
| Stddev | .00040 | .048 | .00029 | .00035 | .00140 | .00007 | .00044 | .0065 | .00006 |
| %RSD | 35.484 | .30338 | 2.1766 | 4.3982 | .59770 | 3.9227 | 69.374 | .19225 | 7.1252 |
| #1 | -.00084 | 15.867 | .01317 | .00816 | .23553 | .00191 | -.00033 | 3.4089 | .00086 |
| #2 | -.00140 | 15.799 | .01358 | .00767 | .23355 | .00181 | -.00095 | 3.3997 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00790** | **.01233** | **.01430** | **20.908** | **4.5147** | **.01574** | **2.3271** | **.84164** | **.00173** |
| Stddev | .00011 | .00003 | .00058 | .087 | .0067 | .00084 | .0023 | .00101 | .00025 |
| %RSD | 1.3986 | .24427 | 4.0835 | .41849 | .14827 | 5.3510 | .09956 | .12036 | 14.305 |
| #1 | .00782 | .01235 | .01389 | 20.969 | 4.5194 | .01514 | 2.3255 | .84093 | .00156 |
| #2 | .00798 | .01231 | .01471 | 20.846 | 4.5100 | .01633 | 2.3287 | .84236 | .00191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28609** | **.00875** | **.68016** | **.22206** | **.39044** | **.00042** | **-.00007** | **1.6438** | **.00546** |
| Stddev | .00920 | .00008 | .00273 | .00045 | .00270 | .00078 | .00502 | .0247 | .00022 |
| %RSD | 3.2169 | .96861 | .40209 | .20480 | .69036 | 185.60 | 6851.3 | 1.5053 | 4.0760 |
| #1 | .27958 | .00869 | .67822 | .22238 | .38853 | .00097 | -.00362 | 1.6613 | .00562 |
| #2 | .29259 | .00881 | .68209 | .22174 | .39234 | -.00013 | .00348 | 1.6263 | .00530 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02835** | **.05615** | **.55383** | **-.00273** | F **-.10279** | **.03115** | **.10532** | **.02725** |
| Stddev | .00016 | .00257 | .00043 | .00087 | .03898 | .00046 | .00004 | .00040 |
| %RSD | .54736 | 4.5764 | .07698 | 31.643 | 37.926 | 1.4716 | .03821 | 1.4574 |
| #1 | .02846 | .05433 | .55353 | -.00335 | -.07522 | .03083 | .10535 | .02753 |
| #2 | .02824 | .05797 | .55413 | -.00212 | -.13035 | .03148 | .10529 | .02697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6381.4** | **84738.** | **4528.6** |
| Stddev | .4 | 150. | 7.4 |
| %RSD | .00678 | .17649 | .16362 |
| #1 | 6381.7 | 84632. | 4523.3 |
| #2 | 6381.1 | 84844. | 4533.8 |

Sample Name: 280-42412-a-29 Acquired: 5/22/2013 1:18:40 Type: Unk
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Q4 Custom ID2: Custom ID3:
Comment: 175121 6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00178** | **36.676** | k **.02961** | **.01681** | **.58728** | k **.00490** | kF **-.03853** | **11.579** | k **.00232** |
| Stddev | .00042 | .103 | .00152 | .00026 | .00173 | .00006 | .00199 | .030 | .00009 |
| %RSD | 23.423 | .28171 | 5.1435 | 1.5604 | .29501 | 1.1795 | 5.1525 | .25569 | 3.9513 |
| #1 | k -.00148 | 36.750 | k .02853 | .01663 | .58851 | k .00494 | k -.03994 | 11.600 | k .00226 |
| #2 | -.00207 | 36.603 | k .03068 | .01700 | .58606 | k .00486 | k -.03713 | 11.558 | k .00239 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | 100.00 | | |
| Low Limit | | | | | | | -.02000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.01597** | k **.02339** | k **.05831** | k **44.169** | **11.151** | **.03811** | k **5.4698** | **2.0149** | **.00299** |
| Stddev | .00007 | .00019 | .00030 | .093 | .105 | .00451 | .0116 | .0027 | .00017 |
| %RSD | .41952 | .81677 | .50946 | .21124 | .93815 | 11.832 | .21251 | .13171 | 5.8195 |
| #1 | k .01602 | k .02353 | k .05810 | k 44.103 | 11.225 | .03492 | k 5.4616 | 2.0130 | .00286 |
| #2 | k .01593 | k .02326 | k .05852 | k 44.235 | 11.077 | .04130 | k 5.4781 | 2.0167 | .00311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33308** | **.01642** | **1.4411** | k **1.8072** | **1.1034** | k **-.00176** | k **-.00039** | **2.0378** | k **.00949** |
| Stddev | .00347 | .00005 | .0016 | .0031 | .0026 | .00077 | .00096 | .0202 | .00040 |
| %RSD | 1.0426 | .31551 | .10887 | .16929 | .23262 | 43.520 | 248.82 | .99191 | 4.2057 |
| #1 | .33062 | .01639 | 1.4400 | k 1.8093 | 1.1016 | k -.00122 | k -.00107 | 2.0521 | k .00921 |
| #2 | .33553 | .01646 | 1.4422 | k 1.8050 | 1.1052 | k -.00231 | k .00029 | 2.0235 | k .00977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08534** | k **.13127** | k **1.0468** | k **-.00569** | kF **-.22045** | k **.05720** | **.28287** | k **.06884** |
| Stddev | .00023 | .00013 | .0037 | .00053 | .03658 | .00044 | .00060 | .00168 |
| %RSD | .26860 | .10190 | .35648 | 9.2647 | 16.593 | .77727 | .21114 | 2.4371 |
| #1 | .08550 | k .13136 | k 1.0441 | k -.00606 | k -.24631 | k .05689 | .28245 | k .07003 |
| #2 | .08517 | k .13118 | k 1.0494 | k -.00532 | k -.19458 | k .05752 | .28330 | k .06765 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7224.2** | **95640.** | **5142.2** |
| Stddev | 11.0 | 138. | 19.0 |
| %RSD | .15206 | .14406 | .36959 |
| #1 | 7232.0 | 95542. | 5128.7 |
| #2 | 7216.5 | 95737. | 5155.6 |

Sample Name: 280-42412-a-30-a  Acquired: 5/22/2013 1:20:59  Type: Unk
Method: 6500_026(v10)  Mode: CONC  Corr. Factor: 1.000000
User: bowenh  Custom ID1: Q4  Custom ID2:  Custom ID3:
Comment: 175121  6010c soil

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00217** | **14.651** | **.02043** | **.00586** | **.11589** | **.00305** | **-.00351** | **2.4835** | **.00021** |
| Stddev | .00012 | .025 | .00203 | .00022 | .00041 | .00013 | .00003 | .0008 | .00010 |
| %RSD | 5.7503 | .17358 | 9.9608 | 3.6727 | .35150 | 4.3091 | .92451 | .03245 | 47.171 |
| #1 | -.00225 | 14.669 | .02187 | .00571 | .11618 | .00314 | -.00348 | 2.4841 | .00014 |
| #2 | -.00208 | 14.633 | .01899 | .00601 | .11560 | .00296 | -.00353 | 2.4829 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00446** | **.00767** | **.01233** | **15.814** | **5.3782** | **.01173** | **1.7274** | **.24640** | **.00120** |
| Stddev | .00009 | .00004 | .00041 | .062 | .0134 | .00028 | .0064 | .00043 | .00019 |
| %RSD | 2.1065 | .56252 | 3.3623 | .39099 | .24871 | 2.3689 | .37018 | .17590 | 16.192 |
| #1 | .00453 | .00770 | .01203 | 15.858 | 5.3687 | .01153 | 1.7320 | .24671 | .00133 |
| #2 | .00440 | .00764 | .01262 | 15.770 | 5.3877 | .01192 | 1.7229 | .24610 | .00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|
| Line | 589.592 { 57} | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 189.989 {477} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24325** | **.00403** | **.52324** | **.05883** | **.12596** | **-.00184** | **-.00463** | **1.6699** | **.01075** |
| Stddev | .00722 | .00010 | .00543 | .00060 | .00437 | .00042 | .00020 | .0206 | .00032 |
| %RSD | 2.9684 | 2.4249 | 1.0383 | 1.0262 | 3.4674 | 23.008 | 4.3015 | 1.2358 | 3.0140 |
| #1 | .23814 | .00409 | .51940 | .05841 | .12287 | -.00154 | -.00449 | 1.6553 | .01052 |
| #2 | .24835 | .00396 | .52708 | .05926 | .12905 | -.00214 | -.00477 | 1.6845 | .01098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | |
| Low Limit | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Line | 407.771 { 83} | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02667** | **.11683** | **.50255** | **-.00482** | F **-.21479** | **.01910** | **.10309** | **.05015** |
| Stddev | .00019 | .00021 | .00194 | .00050 | .00512 | .00041 | .00097 | .00097 |
| %RSD | .69806 | .18147 | .38545 | 10.420 | 2.3834 | 2.1292 | .94439 | 1.9409 |
| #1 | .02680 | .11698 | .50392 | -.00446 | -.21117 | .01881 | .10378 | .05084 |
| #2 | .02654 | .11668 | .50118 | -.00517 | -.21841 | .01939 | .10241 | .04946 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 50.000 | | | |
| Low Limit | | | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7182.2** | **95270.** | **5076.4** |
| Stddev | 3.0 | 663. | 1.9 |
| %RSD | .04226 | .69561 | .03746 |
| #1 | 7184.3 | 94801. | 5077.7 |
| #2 | 7180.0 | 95739. | 5075.1 |

Sample Name: CCVH-2058327 Acquired: 5/22/2013 1:23:24 Type: QC
Method: 6500_026(v10) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **47.300** | **.00161** | **.00313** | **.00180** | **-.00008** | **.95760** | **-.00517** | **-.00065** | **.00149** | **-.00005** | **.00066** |
| Stddev | .00007 | .408 | .00157 | .00075 | .00018 | .00001 | .00105 | .00116 | .00012 | .00001 | .00021 | .00057 |
| %RSD | 5.8990 | .86231 | 97.626 | 24.048 | 10.247 | 6.1875 | .10913 | 22.459 | 18.532 | .72381 | 400.02 | 87.049 |
| #1 | .00122 | 47.012 | .00272 | .00259 | .00167 | -.00009 | .95834 | -.00599 | -.00074 | .00150 | -.00020 | .00107 |
| #2 | .00112 | 47.589 | .00050 | .00366 | .00193 | -.00008 | .95686 | -.00435 | -.00057 | .00148 | .00009 | .00025 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.384** | **.00404** | **-.00157** | **-.00660** | **-.00064** | **-.00165** | F **276.94** | **.00060** | **.00699** | **.00112** | **4.6720** | **-.00076** |
| Stddev | .029 | .02444 | .00065 | .00038 | .00005 | .00034 | 2.56 | .00000 | .00360 | .00053 | .0058 | .00091 |
| %RSD | .06321 | 604.93 | 41.667 | 5.8287 | 8.5543 | 20.443 | .92393 | .67210 | 51.433 | 47.773 | .12341 | 119.44 |
| #1 | 45.405 | -.01324 | -.00203 | -.00687 | -.00068 | -.00189 | 275.13 | .00060 | .00445 | .00150 | 4.6761 | -.00140 |
| #2 | 45.364 | .02132 | -.00110 | -.00633 | -.00060 | -.00141 | 278.75 | .00060 | .00954 | .00074 | 4.6679 | -.00012 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Fail | None | None | None | None | None |
| Value | | | | | | | 250.00 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00303** | **-.00697** | **.00065** | **.00025** | **5.0262** | **.00255** | **-.00104** | **9.7522** | **-.00058** | **.00274** | **-.04182** |
| Stddev | .00325 | .01483 | .00052 | .00001 | .0112 | .00037 | .00062 | .0319 | .00004 | .00021 | .00434 |
| %RSD | 107.18 | 212.72 | 80.397 | 4.2416 | .22202 | 14.535 | 59.376 | .32721 | 6.3912 | 7.5533 | 10.382 |
| #1 | .00073 | .00351 | .00101 | .00024 | 5.0341 | .00228 | -.00148 | 9.7748 | -.00056 | .00288 | -.04489 |
| #2 | .00533 | -.01746 | .00028 | .00026 | 5.0183 | .00281 | -.00060 | 9.7297 | -.00061 | .00259 | -.03875 |
| Check ? | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **5656.1** | **74662.** | **4023.2** |
| Stddev | 1.4 | 316. | 55.1 |
| %RSD | .02552 | .42264 | 1.3688 |
| #1 | 5655.1 | 74439. | 4062.1 |
| #2 | 5657.1 | 74885. | 3984.2 |

# *ICP Data Review Checklist*

| | | |
|---|---|---|
| **TALS BATCH NUMBER:** 175407, 175409, , 175410 | | **Earliest due date:** 5/22/13 |
| **Run Date:** 5/21/13 | **Analyst:** HBB | **Instrument:** 2b |
| **QC programs/Methods Run:** 200.7, 6010B, 6010C, DODv4.1 | | |

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < 1/2 RL or CRDL (CLP) or < 2.2x MDL 200.7 ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | ✓ | | | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | ✓ | | | ✓ |
| 5. Serial dilution done per prep batch (or per SDG for CLP)? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP, DOD & AFCEE only)? NCM Whether needed for DODV3, AFCEE 4.0, 6010c? | ✓ | | | ✓ |
| **B. Calibration/Instrument Run QC** | | | | |
| 1. ICV/CCV analyzed at appropriate frequency and within control limits ? (**6010B**: CLP = 90 - 110%; **200.7:** ICV = 95 - 105%, CCV 90-110%) If not in control, was the ICV or CCV reanalyzed twice to show return to control as per NELAP? | ✓ | | | ✓ |
| 2. ICB/CCB analyzed at appropriate frequency and <1/2RL or < 2X MDL ( DOD V3,AFCEE 4.0)? Was it less than the MDLV (6010C) | ✓ | | | ✓ |
| 3. High Standard (HIGH) reanalyzed before samples and recovered within QC limits? (+-5%) | ✓ | | | ✓ |
| 4. RL STD run and recovered within QC limits ? (± 50% for non-CLP, ± 20% for DoD V3 / AFCEE 4.0 / USACE) | ✓ | | | ✓ |
| 5. Was the LLICV/LLCCV analyzed at appropriate frequency for 6010C and within control (+-30 % or +-20%) | ✓ | | | ✓ |
| 6. ICSA/ICSAB run at required frequency and within SOP limits? (ICSA < 2X MDL AFCEE 4.0, DOD V3 or <RL std work or <MDLV 6010C)) | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. For 6010B, were samples with concentrations > the linear range for any parameter diluted and reanalyzed? For 200.7, were samples with concentrations within 90% of the linear range diluted and reanalyzed? | ✓ | | | ✓ |
| 2. Are all reported results bracketed by in control QC? | ✓ | | | ✓ |
| **D. Other** | | | | |
| 1. Are all nonconformances documented appropriately? | ✓ | | | ✓ |
| 2. Calculations checked for errors? | ✓ | | | ✓ |
| 3. Transcriptions checked for errors? (Example: Are dilution factors that are entered into the sequence log correct?) | ✓ | | | ✓ |
| 4. All client/project specific requirements met? | ✓ | | | ✓ |
| 5. Date/time of analysis verified as correct? | ✓ | | | ✓ |
| 6. PDF attached, verified uncorrupted? | ✓ | | | ✓ |

**Analyst:** Heidi Bowen **Date:** 5/22/13

**Comments:** @ 1000ppm, Mn@220ppm

**2nd Level Reviewer:** James Collins **Date:** 5/22/13

**Comments:**

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Batch Number: 173661  Batch Start Date: 05/10/13 13:00  Batch Analyst: Rhoades, Chris

Batch Method: 3050B  Batch End Date: 05/10/13 18:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | CalcMsg | InitialAmount | FinalAmount | ICP SPK 2A 00059 | ICP SPK 3A 00061 | |
|---|---|---|---|---|---|---|---|---|---|
| MB 280-173661/1 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.06 g | 100 mL | | | |
| LCS 280-173661/2 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.04 g | 100 mL | 1 mL | 1 mL | |
| 280-42039-A-1 | B255SCS0104AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.16 g | 100 mL | | | |
| 280-42039-A-2 | B255SCS0108AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.12 g | 100 mL | | | |
| 280-42039-A-3 | B255SCS0112AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.07 g | 100 mL | | | |
| 280-42039-A-4 | B255SCS0204AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.07 g | 100 mL | | | |
| 280-42039-A-5 | B255SCS0208AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.04 g | 100 mL | | | |
| 280-42039-A-6 | B255SCS0212AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.03 g | 100 mL | | | |
| 280-42039-A-7 | B255SCS0304AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.10 g | 100 mL | | | |
| 280-42039-A-8 | B255SCS0308AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.14 g | 100 mL | | | |
| 280-42039-A-9 | B255SCS0312AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.20 g | 100 mL | | | |
| 280-42039-A-10 | B255SCS0104AC | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.06 g | 100 mL | | | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Batch Number: 173661  Batch Start Date: 05/10/13 13:00  Batch Analyst: Rhoades, Chris

Batch Method: 3050B  Batch End Date: 05/10/13 18:00

| Batch Notes | |
|---|---|
| Acid used for pH adjustment | 0000031542-5/02 |
| Balance ID | 24750836 |
| Filter Paper Lot Number | 400028 |
| Hydrogen peroxide lot number | 0000024347-5/4 |
| Lot # of hydrochloric acid | 0000035187-5/01 |
| Lot # of Nitric Acid | 0000031542-5/02 |
| Hood ID or number | 09 |
| Hot Block ID number | 01 F2 |
| Oven, Bath or Block Temperature 1 | 95 Degrees C |
| Oven, Bath or Block Temperature 2 | 96 Degrees C |
| Pipette ID | MET-007 |
| Temperature | 95 Degrees C |
| ID number of the thermometer | MP1 |
| Digestion Tube/Cup Lot # | MH21KK06 |
| Uncorrected Temperature | 95 Celsius |
| Uncorrected Temperature 2 | 96 Degrees C |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Batch Number: 174378  Batch Start Date: 05/17/13 07:30  Batch Analyst: Apsegren, Jeffrey

Batch Method: 3010A  Batch End Date: 05/17/13 12:30

| Lab Sample ID | Client Sample ID | Method Chain | Basis | Initial pH | InitialAmount | FinalAmount | ICP SPK 2A 00059 | ICP SPK 3A 00061 | |
|---|---|---|---|---|---|---|---|---|---|
| MB 280-174378/1 | | 3010A, 6010C | | | 50 mL | 50 mL | | | |
| LCS 280-174378/2 | | 3010A, 6010C | | | 50 mL | 50 mL | 0.5 mL | 0.5 mL | |
| 280-42039-F-11 | 050613AE | 3010A, 6010C | T | <2 | 50 mL | 50 mL | | | |
| 280-42039-F-11 MS | 050613AE | 3010A, 6010C | T | <2 | 50 mL | 50 mL | 0.5 mL | 0.5 mL | |
| 280-42039-F-11 MSD | 050613AE | 3010A, 6010C | T | <2 | 50 mL | 50 mL | 0.5 mL | 0.5 mL | |

| Batch Notes | |
|---|---|
| Lot # of hydrochloric acid | 0000035187-5/15 |
| Lot # of Nitric Acid | 0000031542-5/15 |
| Hot Block ID number | 04 F-5 |
| Oven, Bath or Block Temperature 1 | 90 Degrees C |
| Oven, Bath or Block Temperature 2 | 90 Degrees C |
| Pipette ID | MET-007 |
| ID number of the thermometer | MP4 |
| Digestion Tube/Cup Lot # | MH21KK06 |
| Uncorrected Temperature | 90 Degrees C |
| Uncorrected Temperature 2 | 90 Degrees C |
| Vendor of Reagent used | JTBAKER |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Batch Number: 175463  Batch Start Date: 05/23/13 07:00  Batch Analyst: Rhoades, Chris

Batch Method: 3010A  Batch End Date: 05/23/13 12:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | Initial pH | InitialAmount | FinalAmount | ICP SPK 2A 00059 | ICP SPK 3A 00061 | |
|---|---|---|---|---|---|---|---|---|---|
| MB 280-175463/1 | | 3010A, 6010C | | | 50 mL | 50 mL | | | |
| LCS 280-175463/2 | | 3010A, 6010C | | | 50 mL | 50 mL | 0.5 mL | 0.5 mL | |
| 280-42039-F-11 | 050613AE | 3010A, 6010C | T | <2 | 50 mL | 50 mL | | | |
| 280-42039-F-11 MS | 050613AE | 3010A, 6010C | T | <2 | 50 mL | 50 mL | 0.5 mL | 0.5 mL | |
| 280-42039-F-11 MSD | 050613AE | 3010A, 6010C | T | <2 | 50 mL | 50 mL | 0.5 mL | 0.5 mL | |

| Batch Notes | |
|---|---|
| Lot # of hydrochloric acid | 0000035187-5/15 |
| Lot # of Nitric Acid | 0000031542-5/15 |
| Hot Block ID number | 01 |
| Oven, Bath or Block Temperature 1 | 96 Degrees C |
| Oven, Bath or Block Temperature 2 | 95 Degrees C |
| Pipette ID | MET-007 |
| ID number of the thermometer | mp1 e6 |
| Digestion Tube/Cup Lot # | MH21KK06 |
| Uncorrected Temperature | 96 Degrees C |
| Uncorrected Temperature 2 | 95 Degrees C |
| Vendor of Reagent used | JTBAKER |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG No.:

Project: Griffiss AFB DP013 Bldg 255

| Client Sample ID | Lab Sample ID |
|---|---|
| B255SCS0104AA | 280-42039-1 |
| B255SCS0108AA | 280-42039-2 |
| B255SCS0112AA | 280-42039-3 |
| B255SCS0204AA | 280-42039-4 |
| B255SCS0208AA | 280-42039-5 |
| B255SCS0212AA | 280-42039-6 |
| B255SCS0304AA | 280-42039-7 |
| B255SCS0308AA | 280-42039-8 |
| B255SCS0312AA | 280-42039-9 |
| B255SCS0104AC | 280-42039-10 |

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-42039-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 11/01/2009 00:00

| Analyte | Wavelength/ Mass | LOQ (%) | |
|---|---|---|---|
| Percent Moisture | | 0.1 | |
| Percent Solids | | 0.1 | |

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-42039-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/24/2013 13:15 End Date: 05/24/2013 13:15

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | % Sol | Moist | | | | | | | | | | | | | | | | | | |
| 280-42039-1 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-2 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-3 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-4 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-5 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-6 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-7 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-8 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-9 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-10 | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |
| 280-42039-10 DU | 1 | T | 13:15 | X | X | | | | | | | | | | | | | | | | | | |

Prep Types
T = Total/NA

TestAmerica Denver

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# Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture  Analysis Date: 5/24/13

SOP #: DV-WC-0023  Analyst: Alex Benson  Instrument: BAL

| Lot/ Sample Numbers | Matrix | Prep Batch | Batch | Method | Special Inst |
|---|---|---|---|---|---|
| 42159 | solid | | 175867 | | |
| 42039 | | | 175935 | | |
| 42468 | | | 175955 | | |
| 42602 | | | | | |
| 42159 | | | | | |
| 42162 | | | | | |
| 42366 | | | | | |

| | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Balance, Oven, and DI Water QC Checks** | | | | |
| 1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed? | X | | | — |
| 2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed? | X | | | — |
| 3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"? | | | X | — |
| **B. Method Requirements** | | | | |
| 1. If sample is visibly oily, was this noted on the benchsheet? | | X | | — |
| 2. Was final residue weight within minimum/maximum requirements? | X | | | — |
| 3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour? | X | | | — |
| **C. Sample Results** | | | | |
| 1. TDS/Conductivity ratio or historical data checked? | | | X | — |
| 2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%? | | X | | — |
| 3. Were sample analyses done within holding time? | X | | | — |
| 4. Were special client requirements met? | X | | | — |
| 5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units? | X | | | |
| 6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked? | X | | | — |
| 7. STD/True Value information is updated and included? | | | X | — |
| 8. Are raw data copies prepared, scanned, and uploaded? | | | X | — |
| **D. Preparation/Matrix QC** | | | | |
| 1. Method blank < RL or all reported samples > 10 X RL? | | | X | — |
| 2. Method blank < ½ RL or NCM provided? | | | X | — |
| 3. LCS/LCSD run for batch and within QC limits? | | | X | — |
| 4. DUP run for batch and RPD < 20% for samples >5 X RL? | X | | | — |

Analyst: [signature]  Date: 5/24/13

Comments:

2nd Level Reviewer: [signature]  Date: 5/24/13

Comments:

**Test Name/ Method #:** Moisture **SOP #** DV-LC-0023

**Instrument:** BAL **Analyst:** Alex Benson **Analysis Date:** 5/24/13

| 5/24/13 Lot / Sample Numbers | Matrix | Batch | Method | Special Inst |
|---|---|---|---|---|
| ~~176~~ 42585 | solid | 176044 | — | — |
| 42580 | ↓ | ↓ | — | — |
| 42227 | ↓ | ↓ | — | — |

# GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-42039-1

SDG No.:

Batch Number: 175935  Batch Start Date: 05/24/13 13:15  Batch Analyst: Sullivan, Josh

Batch Method: Moisture  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | DISH# | DishWeight | SampleMassWet | SampleMassDry | | |
|---|---|---|---|---|---|---|---|---|---|
| 280-42039-B-1 | B255SCS0104AA | Moisture | T | 1 | 1.31 g | 16.93 g | 15.55 g | | |
| 280-42039-B-2 | B255SCS0108AA | Moisture | T | 2 | 1.32 g | 17.06 g | 14.73 g | | |
| 280-42039-B-3 | B255SCS0112AA | Moisture | T | 3 | 1.34 g | 17.97 g | 16.32 g | | |
| 280-42039-B-4 | B255SCS0204AA | Moisture | T | 4 | 1.32 g | 17.02 g | 15.70 g | | |
| 280-42039-B-5 | B255SCS0208AA | Moisture | T | 5 | 1.31 g | 16.78 g | 14.50 g | | |
| 280-42039-B-6 | B255SCS0212AA | Moisture | T | 6 | 1.33 g | 17.18 g | 15.68 g | | |
| 280-42039-B-7 | B255SCS0304AA | Moisture | T | 7 | 1.33 g | 17.45 g | 16.09 g | | |
| 280-42039-B-8 | B255SCS0308AA | Moisture | T | 8 | 1.32 g | 16.78 g | 15.13 g | | |
| 280-42039-B-9 | B255SCS0312AA | Moisture | T | 9 | 1.32 g | 17.73 g | 16.29 g | | |
| 280-42039-B-10 | B255SCS0104AC | Moisture | T | 10 | 1.33 g | 16.82 g | 15.43 g | | |
| 280-42039-B-10 DU | B255SCS0104AC | Moisture | T | 11 | 1.34 g | 16.99 g | 15.54 g | | |

| Batch Notes | |
|---|---|
| Balance ID | H31422 No Unit |
| Batch Comment | read back on scale 24950432 |
| Date samples were placed in the oven | 5/24/13 |
| Oven Temp when samples are put in oven | 105 Degrees C |
| Time samples were place in the oven | 1400 |
| Date samples were removed from oven | 5/25/13 |
| Oven Temp when samples removed from oven | 105 Degrees C |
| Time Samples were removed from oven | 800 |
| Oven ID | Moisture |
| ID number of the thermometer | F |
| Uncorrected In Temperature | 105 Celsius |
| Uncorrected Out Temperature | 105 Celsius |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

0.1
0.4 SS TAL 2/18/13

C  RD

280-42039 Chain of Custody

COC#: _4_ SDG#: 2/3 (Open/Closed) Cooler ID#: _A_

| | | |
|---|---|---|
| Ship to:<br>Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Project Name: Griffiss AFB DP013 Building 255<br>Sampler Name: Justin Damann | Send Results to:<br>Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | Sampler Signature: | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | VOCs: note 3, 4 oz. jar | Metals: note 4, 4 oz glass jar | VOCs note 3 40mL vials (HCl) | Metals note 4 250 mL poly ($HNO_3$). | Pesticides note 2 1 L amber bottle | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B255SCS0104AA | B255SCS-1 | 5/6 | 1440 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0108AA | B255SCS-1 | 5/6 | 1455 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0112AA | B255SCS-1 | 5/6 | 1500 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0204AA | B255SCS-2 | 5/6 | 1515 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0208AA | B255SCS-2 | 5/6 | 1519 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0212AA | B255SCS-2 | 5/6 | 1525 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0304AA | B255SCS-3 | 5/6 | 1545 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0308AA | B255SCS-3 | 5/6 | 1552 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0312AA | B255SCS-3 | 5/6 | 1559 | SO | G | N | 0/0 | 2 | 1 | 1 | | | | |
| B255SCS0104AC | B255SCS-1 | 5/6 | 1442 | SO | G | FD | 0/0 | 2 | 1 | 1 | | | | |
| 050613AE | FIELDQC | 5/6 | 1630 | WQ | G | EB | 0/0 | 6 | | | 3 | 1 | 2 | |
| 050613AF | FIELDQC | 5/6 | 1530 | WQ | NA | AB | 0/0 | 3 | | | 3 | | | |
| 050613AR | FIELDQC | 5/6 | 0900 | WQ | NA | TB | 0/0 | 3 | | | 3 | | | |

| Sample Condition Upon Receipt at Laboratory: | Cooler Temperature: |
|---|---|
| Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0 | |
| Note 1: Total SVOCs: method SW8270D | |
| Note 2: Total Pesticides: SW8081B | |
| Note 3: Total VOCs: SW8260B | |
| Note 4: Total Metals: SW6010C | |

| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 5/9/13 1630 | #3 Released by: (Sig) RE | Date: 5-7-13 |
|---|---|---|---|---|---|
| Company Name: | Time: | Company Name: FPM | Time: | Company Name: Sy | Time: 1200 |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) R. English | Date: 05-07-13 | #3 Received by: (Sig) | Date: 5/8/13 |
| Company Name: FPM | Time: | Company Name: TA Syr | Time: 16:30 | Company Name: TA | Time: 8945 |

**MATRIX**
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

**SMCODE**
B = Bailer
G = Grab.
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

# Login Sample Receipt Checklist

Client: FPM Remediations Inc

Job Number: 280-42039-1

**Login Number: 42039**

**List Source: TestAmerica Denver**

**List Number: 1**

**Creator: Broander, Laura**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 280-45026-1

Job Description: Griffiss AFB DP013 Bldg 255

For:
FPM Remediations Inc
584 Phoenix Drive
Rome, NY 13441

Attention: Daniel Baldyga

Approved for release.
Elaine M Walker
Project Manager I
8/26/2013 2:08 PM

Elaine M Walker, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0156
elaine.walker@testamericainc.com
08/26/2013

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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# CASE NARRATIVE
# Client: FPM Remediations Inc
# Project: Griffiss AFB DP013 Bldg 255
# Report Number: 280-45026-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

Seventeen samples were received on 08/01/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.1ºC, 3.2ºC, and 5.2ºC.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples B255SCS0904AA (280-45026-8), B255SCS0908AA (280-45026-9), B255SCS0912AA (280-45026-10), B255SCS1004AA (280-45026-11), B255SCS1008AA (280-45026-12), and B255SCS1012AA (280-45026-13) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/09/2013 and analyzed on 08/14/2013.

Dimethyl phthalate was detected in method blank MB 280-186667/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

Sample B255SCS0904AA (280-45026-8) required a dilution prior to analysis due to the nature of the sample matrix (viscosity of the extract). The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP)**

Samples B255SCS0704AA (280-45026-1), B255SCS0704AC (280-45026-2), B255SCS0708AA (280-45026-3), B255SCS0712AA (280-45026-4), B255SCS0804AA (280-45026-5), B255SCS0808AA (280-45026-6), B255SCS0812AA (280-45026-7), B255SCS0904AA (280-45026-8), B255SCS0908AA (280-45026-9), B255SCS0912AA (280-45026-10), B255SCS1104AA (280-45026-14), B255SCS1108AA (280-45026-15), B255SCS1112AA (280-45026-16), and B255SCS1116AA (280-45026-17) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/14/2013 and analyzed on 08/15/2013.

Samples B255SCS0708AA (280-45026-3), B255SCS0908AA (280-45026-9), B255SCS1112AA (280-45026-16), and B255SCS1116AA (280-45026-17) required dilutions prior to analysis to bring the concentration of Manganese within the daily calibration range. Internal Standard failures occurred at a 1x dilution. The reporting limits have been adjusted accordingly.

Sample B255SCS0912AA (280-45026-10) required a dilution prior to analysis due to the nature of the sample matrix. The reporting limits have been adjusted accordingly.

The CCVL associated with prep batch 280-186959 recovered above the established control criteria for Aluminum. The associated samples contained detections for this analyte greater than 10x the RL, the Method Blank was non-detect for Aluminum, and the LCS recovered within the established control limits; therefore the data have been reported.

The analysis of the ICSA solution, which is used as the interference check standard, shows results for Cadmium, Chromium, Copper, Manganese, and Strontium at a level greater than the LOD for prep batch 280-186959. We believe that the solution contains trace impurities of these elements and that the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged “Q” for these elements.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples B255SCS0704AA (280-45026-1), B255SCS0704AC (280-45026-2), B255SCS0708AA (280-45026-3), B255SCS0712AA (280-45026-4), B255SCS0804AA (280-45026-5), B255SCS0808AA (280-45026-6), B255SCS0812AA (280-45026-7), B255SCS0904AA

(280-45026-8), B255SCS0908AA (280-45026-9), B255SCS0912AA (280-45026-10), B255SCS1004AA (280-45026-11), B255SCS1008AA (280-45026-12), B255SCS1012AA (280-45026-13), B255SCS1104AA (280-45026-14), B255SCS1108AA (280-45026-15), B255SCS1112AA (280-45026-16), and B255SCS1116AA (280-45026-17) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 08/13/2013 and 08/15/2013.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 179033

Lab Sample ID: ICIS 280-179033/2 Client Sample ID:

Date Analyzed: 06/17/13 07:29 Lab File ID: Y5008.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.58 | Split Peak | hoffmanm | 06/17/13 11:07 |
| Indeno[1,2,3-cd]pyrene | 18.53 | Split Peak | hoffmanm | 06/17/13 11:07 |

Lab Sample ID: IC 280-179033/3 Client Sample ID:

Date Analyzed: 06/17/13 07:55 Lab File ID: Y5009.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzoic acid | 4.95 | Wrong peak | hoffmanm | 06/17/13 11:45 |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:45 |

Lab Sample ID: IC 280-179033/4 Client Sample ID:

Date Analyzed: 06/17/13 08:22 Lab File ID: Y5010.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:46 |

Lab Sample ID: IC 280-179033/5 Client Sample ID:

Date Analyzed: 06/17/13 08:48 Lab File ID: Y5011.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.51 | Shouldering | hoffmanm | 06/17/13 11:47 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 179033

Lab Sample ID: IC 280-179033/7 Client Sample ID:

Date Analyzed: 06/17/13 09:40 Lab File ID: Y5013.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:49 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Split Peak | hoffmanm | 06/17/13 11:49 |

Lab Sample ID: IC 280-179033/8 Client Sample ID:

Date Analyzed: 06/17/13 10:06 Lab File ID: Y5014.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:51 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Shouldering | hoffmanm | 06/17/13 11:51 |

Lab Sample ID: IC 280-179033/9 Client Sample ID:

Date Analyzed: 06/17/13 10:33 Lab File ID: Y5015.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.60 | Split Peak | hoffmanm | 06/17/13 11:53 |
| Indeno[1,2,3-cd]pyrene | 18.56 | Shouldering | hoffmanm | 06/17/13 11:53 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 185961

Lab Sample ID: IC 280-185961/2 Client Sample ID:

Date Analyzed: 08/06/13 08:19 Lab File ID: Y5634.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:41 |

Lab Sample ID: IC 280-185961/3 Client Sample ID:

Date Analyzed: 08/06/13 08:45 Lab File ID: Y5635.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:42 |

Lab Sample ID: IC 280-185961/4 Client Sample ID:

Date Analyzed: 08/06/13 09:12 Lab File ID: Y5636.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:43 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 187134

Lab Sample ID: CCV 280-187134/4 Client Sample ID:

Date Analyzed: 08/14/13 10:50 Lab File ID: Y5754.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/14/13 11:32 |

Lab Sample ID: LCS 280-186667/2-A Client Sample ID:

Date Analyzed: 08/14/13 14:22 Lab File ID: Y5762.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.54 | Split Peak | hoffmanm | 08/15/13 09:36 |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/15/13 09:36 |

Lab Sample ID: 280-45026-9 Client Sample ID: B255SCS0908AA

Date Analyzed: 08/14/13 20:06 Lab File ID: Y5775.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.94 | Shouldering | hoffmanm | 08/15/13 09:52 |
| Benzo[k]fluoranthene | 14.03 | Shouldering | hoffmanm | 08/15/13 09:52 |

Lab Sample ID: 280-45026-11 Client Sample ID: B255SCS1004AA

Date Analyzed: 08/14/13 20:59 Lab File ID: Y5777.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[a]pyrene | 14.88 | Split Peak | hoffmanm | 08/15/13 09:53 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 187134

Lab Sample ID: 280-45026-12 Client Sample ID: B255SCS1008AA

Date Analyzed: 08/14/13 21:25 Lab File ID: Y5778.D GC Column: Vf-5MS (30.25) ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.95 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Benzo[k]fluoranthene | 14.00 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Dibenz(a,h)anthracene | 18.44 | Split Peak | hoffmanm | 08/15/13 09:55 |

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

SDG 8/15/13

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y  Analysis Batch Number: 179033

Lab Sample ID: ICIS 280-179033/2  Client Sample ID:

Date Analyzed: 06/17/13 07:29  Lab File ID: Y5008.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.58 | Split Peak | hoffmanm | 06/17/13 11:07 |
| Indeno[1,2,3-cd]pyrene | 18.53 | Split Peak | hoffmanm | 06/17/13 11:07 |

Lab Sample ID: IC 280-179033/3  Client Sample ID:

Date Analyzed: 06/17/13 07:55  Lab File ID: Y5009.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzoic acid | 4.95 | Wrong peak | hoffmanm | 06/17/13 11:45 |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:45 |

Lab Sample ID: IC 280-179033/4  Client Sample ID:

Date Analyzed: 06/17/13 08:22  Lab File ID: Y5010.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.50 | Shouldering | hoffmanm | 06/17/13 11:46 |

Lab Sample ID: IC 280-179033/5  Client Sample ID:

Date Analyzed: 06/17/13 08:48  Lab File ID: Y5011.D  GC Column: Vf-5MS  ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.51 | Shouldering | hoffmanm | 06/17/13 11:47 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

8/16/13

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 179033

Lab Sample ID: IC 280-179033/7 Client Sample ID:

Date Analyzed: 06/17/13 09:40 Lab File ID: Y5013.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:49 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Split Peak | hoffmanm | 06/17/13 11:49 |

Lab Sample ID: IC 280-179033/8 Client Sample ID:

Date Analyzed: 06/17/13 10:06 Lab File ID: Y5014.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.59 | Split Peak | hoffmanm | 06/17/13 11:51 |
| Indeno[1,2,3-cd]pyrene | 18.55 | Shouldering | hoffmanm | 06/17/13 11:51 |

Lab Sample ID: IC 280-179033/9 Client Sample ID:

Date Analyzed: 06/17/13 10:33 Lab File ID: Y5015.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.60 | Split Peak | hoffmanm | 06/17/13 11:53 |
| Indeno[1,2,3-cd]pyrene | 18.56 | Shouldering | hoffmanm | 06/17/13 11:53 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

320 8/16/13

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 185961

Lab Sample ID: IC 280-185961/2 Client Sample ID:

Date Analyzed: 08/06/13 08:19 Lab File ID: Y5634.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:41 |

Lab Sample ID: IC 280-185961/3 Client Sample ID:

Date Analyzed: 08/06/13 08:45 Lab File ID: Y5635.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:42 |

Lab Sample ID: IC 280-185961/4 Client Sample ID:

Date Analyzed: 08/06/13 09:12 Lab File ID: Y5636.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| alpha,alpha-Dimethyl phenethylamine | 5.03 | Split Peak | hoffmanm | 08/06/13 11:43 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

DoD 8/16/13

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 187134

Lab Sample ID: CCV 280-187134/4 Client Sample ID:

Date Analyzed: 08/14/13 10:50 Lab File ID: Y5754.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/14/13 11:32 |

Lab Sample ID: LCS 280-186667/2-A Client Sample ID:

Date Analyzed: 08/14/13 14:22 Lab File ID: Y5762.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.54 | Split Peak | hoffmanm | 08/15/13 09:36 |
| Indeno[1,2,3-cd]pyrene | 18.36 | Shouldering | hoffmanm | 08/15/13 09:36 |

Lab Sample ID: 280-45026-9 Client Sample ID: B255SCS0908AA

Date Analyzed: 08/14/13 20:06 Lab File ID: Y5775.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.94 | Shouldering | hoffmanm | 08/15/13 09:52 |
| Benzo[k]fluoranthene | 14.03 | Shouldering | hoffmanm | 08/15/13 09:52 |

Lab Sample ID: 280-45026-11 Client Sample ID: B255SCS1004AA

Date Analyzed: 08/14/13 20:59 Lab File ID: Y5777.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[a]pyrene | 14.88 | Split Peak | hoffmanm | 08/15/13 09:53 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

JAP 8/16/13

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Analysis Batch Number: 187134

Lab Sample ID: 280-45026-12 Client Sample ID: B255SCS1008AA

Date Analyzed: 08/14/13 21:25 Lab File ID: Y5778.D GC Column: Vf-5MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[b]fluoranthene | 13.95 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Benzo[k]fluoranthene | 14.00 | Shouldering | hoffmanm | 08/15/13 09:55 |
| Dibenz(a,h)anthracene | 18.44 | Split Peak | hoffmanm | 08/15/13 09:55 |

## SAMPLE SUMMARY

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 280-45026-1 | B255SCS0704AA | Solid | 07/29/2013 1550 | 08/01/2013 0930 |
| 280-45026-2 | B255SCS0704AC | Solid | 07/29/2013 1550 | 08/01/2013 0930 |
| 280-45026-3 | B255SCS0708AA | Solid | 07/29/2013 1554 | 08/01/2013 0930 |
| 280-45026-4 | B255SCS0712AA | Solid | 07/29/2013 1600 | 08/01/2013 0930 |
| 280-45026-5 | B255SCS0804AA | Solid | 07/29/2013 1530 | 08/01/2013 0930 |
| 280-45026-6 | B255SCS0808AA | Solid | 07/29/2013 1535 | 08/01/2013 0930 |
| 280-45026-7 | B255SCS0812AA | Solid | 07/29/2013 1540 | 08/01/2013 0930 |
| 280-45026-8 | B255SCS0904AA | Solid | 07/29/2013 1450 | 08/01/2013 0930 |
| 280-45026-9 | B255SCS0908AA | Solid | 07/29/2013 1500 | 08/01/2013 0930 |
| 280-45026-10 | B255SCS0912AA | Solid | 07/29/2013 1505 | 08/01/2013 0930 |
| 280-45026-11 | B255SCS1004AA | Solid | 07/29/2013 1510 | 08/01/2013 0930 |
| 280-45026-12 | B255SCS1008AA | Solid | 07/29/2013 1515 | 08/01/2013 0930 |
| 280-45026-13 | B255SCS1012AA | Solid | 07/29/2013 1520 | 08/01/2013 0930 |
| 280-45026-14 | B255SCS1104AA | Solid | 07/29/2013 1345 | 08/01/2013 0930 |
| 280-45026-15 | B255SCS1108AA | Solid | 07/29/2013 1347 | 08/01/2013 0930 |
| 280-45026-16 | B255SCS1112AA | Solid | 07/29/2013 1359 | 08/01/2013 0930 |
| 280-45026-17 | B255SCS1116AA | Solid | 07/29/2013 1430 | 08/01/2013 0930 |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-1** | **B255SCS0704AA** | | | | | |
| Aluminum | | 3700 | | 54 | mg/Kg | 6010C |
| Arsenic | | 2.4 | J | 2.7 | mg/Kg | 6010C |
| Barium | | 12 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.17 | J | 0.54 | mg/Kg | 6010C |
| Boron | | 1.4 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.083 | J Q | 0.54 | mg/Kg | 6010C |
| Calcium | | 1900 | | 110 | mg/Kg | 6010C |
| Chromium | | 4.2 | Q | 3.8 | mg/Kg | 6010C |
| Cobalt | | 3.2 | | 1.1 | mg/Kg | 6010C |
| Copper | | 8.5 | Q | 5.4 | mg/Kg | 6010C |
| Iron | | 7900 | | 86 | mg/Kg | 6010C |
| Lead | | 2.2 | | 0.97 | mg/Kg | 6010C |
| Magnesium | | 1700 | | 32 | mg/Kg | 6010C |
| Manganese | | 270 | Q | 4.8 | mg/Kg | 6010C |
| Nickel | | 6.4 | | 4.3 | mg/Kg | 6010C |
| Potassium | | 540 | | 320 | mg/Kg | 6010C |
| Strontium | | 5.6 | Q | 1.6 | mg/Kg | 6010C |
| Vanadium | | 6.7 | | 2.1 | mg/Kg | 6010C |
| Zinc | | 15 | | 8.6 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-2** | **B255SCS0704AC** | | | | | |
| Aluminum | | 3200 | | 50 | mg/Kg | 6010C |
| Arsenic | | 2.0 | J | 2.5 | mg/Kg | 6010C |
| Barium | | 10 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.14 | J | 0.50 | mg/Kg | 6010C |
| Boron | | 1.3 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.052 | J Q | 0.50 | mg/Kg | 6010C |
| Calcium | | 2000 | | 100 | mg/Kg | 6010C |
| Chromium | | 3.8 | Q | 3.5 | mg/Kg | 6010C |
| Cobalt | | 2.6 | | 1.0 | mg/Kg | 6010C |
| Copper | | 8.2 | Q | 5.0 | mg/Kg | 6010C |
| Iron | | 7000 | | 80 | mg/Kg | 6010C |
| Lead | | 1.8 | | 0.90 | mg/Kg | 6010C |
| Magnesium | | 1500 | | 30 | mg/Kg | 6010C |
| Manganese | | 240 | Q | 4.5 | mg/Kg | 6010C |
| Nickel | | 5.7 | | 4.0 | mg/Kg | 6010C |
| Potassium | | 490 | | 300 | mg/Kg | 6010C |
| Strontium | | 4.7 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 5.8 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 14 | | 8.0 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-3** | **B255SCS0708AA** | | | | | |
| Aluminum | | 7800 | | 55 | mg/Kg | 6010C |
| Arsenic | | 5.3 | | 2.8 | mg/Kg | 6010C |
| Barium | | 34 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.44 | J | 0.55 | mg/Kg | 6010C |
| Boron | | 1.6 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.17 | J Q | 0.55 | mg/Kg | 6010C |
| Calcium | | 2300 | | 110 | mg/Kg | 6010C |
| Chromium | | 10 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 5.1 | | 1.1 | mg/Kg | 6010C |
| Copper | | 36 | Q | 5.5 | mg/Kg | 6010C |
| Iron | | 19000 | | 89 | mg/Kg | 6010C |
| Lead | | 5.5 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 2700 | | 33 | mg/Kg | 6010C |
| Manganese | | 1500 | Q D | 25 | mg/Kg | 6010C |
| Molybdenum | | 1.0 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 13 | | 4.4 | mg/Kg | 6010C |
| Potassium | | 660 | | 330 | mg/Kg | 6010C |
| Strontium | | 9.4 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 14 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 34 | | 8.9 | mg/Kg | 6010C |
| Percent Moisture | | 14 | | 0.10 | % | Moisture |
| Percent Solids | | 86 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-4** | **B255SCS0712AA** | | | | | |
| Aluminum | | 6100 | | 51 | mg/Kg | 6010C |
| Arsenic | | 4.1 | | 2.5 | mg/Kg | 6010C |
| Barium | | 24 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.37 | J | 0.51 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.14 | J Q | 0.51 | mg/Kg | 6010C |
| Calcium | | 2900 | | 100 | mg/Kg | 6010C |
| Chromium | | 8.3 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 4.7 | | 1.0 | mg/Kg | 6010C |
| Copper | | 23 | Q | 5.1 | mg/Kg | 6010C |
| Iron | | 15000 | | 81 | mg/Kg | 6010C |
| Lead | | 4.7 | | 0.91 | mg/Kg | 6010C |
| Magnesium | | 2600 | | 30 | mg/Kg | 6010C |
| Manganese | | 670 | Q | 4.6 | mg/Kg | 6010C |
| Molybdenum | | 0.27 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 9.9 | | 4.1 | mg/Kg | 6010C |
| Potassium | | 710 | | 300 | mg/Kg | 6010C |
| Strontium | | 10 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 16 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 40 | | 8.1 | mg/Kg | 6010C |
| Percent Moisture | | 12 | | 0.10 | % | Moisture |
| Percent Solids | | 88 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-5** | **B255SCS0804AA** | | | | | |
| Aluminum | | 5700 | | 52 | mg/Kg | 6010C |
| Arsenic | | 2.7 | | 2.6 | mg/Kg | 6010C |
| Barium | | 23 | | 2.1 | mg/Kg | 6010C |
| Beryllium | | 0.26 | J | 0.52 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 10 | mg/Kg | 6010C |
| Cadmium | | 0.14 | J Q | 0.52 | mg/Kg | 6010C |
| Calcium | | 2700 | | 100 | mg/Kg | 6010C |
| Chromium | | 7.0 | Q | 3.6 | mg/Kg | 6010C |
| Cobalt | | 4.1 | | 1.0 | mg/Kg | 6010C |
| Copper | | 13 | Q | 5.2 | mg/Kg | 6010C |
| Iron | | 11000 | | 83 | mg/Kg | 6010C |
| Lead | | 14 | | 0.94 | mg/Kg | 6010C |
| Magnesium | | 2200 | | 31 | mg/Kg | 6010C |
| Manganese | | 380 | Q | 4.7 | mg/Kg | 6010C |
| Nickel | | 9.1 | | 4.2 | mg/Kg | 6010C |
| Potassium | | 720 | | 310 | mg/Kg | 6010C |
| Strontium | | 6.3 | Q | 1.6 | mg/Kg | 6010C |
| Vanadium | | 12 | | 2.1 | mg/Kg | 6010C |
| Zinc | | 33 | | 8.3 | mg/Kg | 6010C |
| Percent Moisture | | 19 | | 0.10 | % | Moisture |
| Percent Solids | | 81 | | 0.10 | % | Moisture |
| **280-45026-6** | **B255SCS0808AA** | | | | | |
| Aluminum | | 3300 | | 55 | mg/Kg | 6010C |
| Arsenic | | 1.9 | J | 2.8 | mg/Kg | 6010C |
| Barium | | 11 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.15 | J | 0.55 | mg/Kg | 6010C |
| Boron | | 1.3 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.069 | J Q | 0.55 | mg/Kg | 6010C |
| Calcium | | 810 | | 110 | mg/Kg | 6010C |
| Chromium | | 3.9 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 2.7 | | 1.1 | mg/Kg | 6010C |
| Copper | | 8.0 | Q | 5.5 | mg/Kg | 6010C |
| Iron | | 7200 | | 88 | mg/Kg | 6010C |
| Lead | | 1.5 | | 0.99 | mg/Kg | 6010C |
| Magnesium | | 1400 | | 33 | mg/Kg | 6010C |
| Manganese | | 240 | Q | 5.0 | mg/Kg | 6010C |
| Nickel | | 5.8 | | 4.4 | mg/Kg | 6010C |
| Potassium | | 510 | | 330 | mg/Kg | 6010C |
| Strontium | | 2.9 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 5.9 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 14 | | 8.8 | mg/Kg | 6010C |
| Percent Moisture | | 10 | | 0.10 | % | Moisture |
| Percent Solids | | 90 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-7** | **B255SCS0812AA** | | | | | |
| Aluminum | | 5900 | | 49 | mg/Kg | 6010C |
| Arsenic | | 5.1 | | 2.5 | mg/Kg | 6010C |
| Barium | | 29 | | 2.0 | mg/Kg | 6010C |
| Beryllium | | 0.30 | J | 0.49 | mg/Kg | 6010C |
| Boron | | 2.0 | J | 9.9 | mg/Kg | 6010C |
| Cadmium | | 1.0 | Q | 0.49 | mg/Kg | 6010C |
| Calcium | | 2000 | | 99 | mg/Kg | 6010C |
| Chromium | | 27 | Q | 3.5 | mg/Kg | 6010C |
| Cobalt | | 5.4 | | 0.99 | mg/Kg | 6010C |
| Copper | | 41 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 14000 | | 79 | mg/Kg | 6010C |
| Lead | | 140 | | 0.89 | mg/Kg | 6010C |
| Magnesium | | 2500 | | 30 | mg/Kg | 6010C |
| Manganese | | 370 | Q | 4.4 | mg/Kg | 6010C |
| Molybdenum | | 0.52 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 11 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 720 | | 300 | mg/Kg | 6010C |
| Strontium | | 4.1 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 11 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 160 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 11 | | 0.10 | % | Moisture |
| Percent Solids | | 89 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-8** | **B255SCS0904AA** | | | | | |
| Acenaphthylene | | 110 | J | 1500 | ug/Kg | 8270D/DoD |
| Anthracene | | 160 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 530 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 430 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 680 | J | 1500 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 250 | J | 1500 | ug/Kg | 8270D/DoD |
| Chrysene | | 630 | J | 1500 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 400 | J | 1500 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 1000 | J | 1500 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 260 | J | 1500 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 810 | J | 1500 | ug/Kg | 8270D/DoD |
| Pyrene | | 1200 | J | 1900 | ug/Kg | 8270D/DoD |
| Aluminum | | 7800 | | 55 | mg/Kg | 6010C |
| Arsenic | | 5.2 | | 2.8 | mg/Kg | 6010C |
| Barium | | 35 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.35 | J | 0.55 | mg/Kg | 6010C |
| Boron | | 2.2 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.76 | Q | 0.55 | mg/Kg | 6010C |
| Calcium | | 18000 | | 110 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 6.0 | | 1.1 | mg/Kg | 6010C |
| Copper | | 33 | Q | 5.5 | mg/Kg | 6010C |
| Iron | | 18000 | | 88 | mg/Kg | 6010C |
| Lead | | 39 | | 0.99 | mg/Kg | 6010C |
| Magnesium | | 3500 | | 33 | mg/Kg | 6010C |
| Manganese | | 860 | Q | 5.0 | mg/Kg | 6010C |
| Molybdenum | | 0.32 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 13 | | 4.4 | mg/Kg | 6010C |
| Potassium | | 810 | | 330 | mg/Kg | 6010C |
| Strontium | | 41 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 19 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 57 | | 8.8 | mg/Kg | 6010C |
| Percent Moisture | | 16 | | 0.10 | % | Moisture |
| Percent Solids | | 84 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-9** | **B255SCS0908AA** | | | | | |
| Acenaphthylene | | 31 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 51 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 62 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 89 | J M | 370 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 55 | J | 370 | ug/Kg | 8270D/DoD |
| Chrysene | | 68 | J | 370 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 220 | J | 370 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 78 | J | 370 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 53 | J | 370 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 36 | J | 370 | ug/Kg | 8270D/DoD |
| Pyrene | | 94 | J | 450 | ug/Kg | 8270D/DoD |
| Aluminum | | 12000 | Q | 58 | mg/Kg | 6010C |
| Arsenic | | 4.6 | | 2.9 | mg/Kg | 6010C |
| Barium | | 68 | | 2.3 | mg/Kg | 6010C |
| Beryllium | | 0.48 | J | 0.58 | mg/Kg | 6010C |
| Boron | | 2.1 | J | 12 | mg/Kg | 6010C |
| Cadmium | | 0.52 | J Q | 0.58 | mg/Kg | 6010C |
| Calcium | | 3500 | | 120 | mg/Kg | 6010C |
| Chromium | | 13 | Q | 4.1 | mg/Kg | 6010C |
| Cobalt | | 6.7 | | 1.2 | mg/Kg | 6010C |
| Copper | | 23 | Q | 5.8 | mg/Kg | 6010C |
| Iron | | 22000 | | 93 | mg/Kg | 6010C |
| Lead | | 16 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 2800 | | 35 | mg/Kg | 6010C |
| Manganese | | 1400 | Q D | 26 | mg/Kg | 6010C |
| Molybdenum | | 0.68 | J | 2.9 | mg/Kg | 6010C |
| Nickel | | 14 | | 4.6 | mg/Kg | 6010C |
| Potassium | | 780 | | 350 | mg/Kg | 6010C |
| Sodium | | 560 | J | 580 | mg/Kg | 6010C |
| Strontium | | 40 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 24 | | 2.3 | mg/Kg | 6010C |
| Zinc | | 68 | | 9.3 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-10** | **B255SCS0912AA** | | | | | |
| Dimethyl phthalate | | 140 | J | 350 | ug/Kg | 8270D/DoD |
| Aluminum | | 10000 | Q D | 250 | mg/Kg | 6010C |
| Arsenic | | 4.5 | | 2.5 | mg/Kg | 6010C |
| Barium | | 42 | D | 9.8 | mg/Kg | 6010C |
| Beryllium | | 0.42 | J D | 2.5 | mg/Kg | 6010C |
| Boron | | 1.5 | J | 9.8 | mg/Kg | 6010C |
| Cadmium | | 0.19 | J Q | 0.49 | mg/Kg | 6010C |
| Calcium | | 5200 | D | 490 | mg/Kg | 6010C |
| Chromium | | 11 | Q | 3.4 | mg/Kg | 6010C |
| Cobalt | | 5.3 | | 0.98 | mg/Kg | 6010C |
| Copper | | 47 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 25000 | D | 390 | mg/Kg | 6010C |
| Lead | | 5.5 | | 0.89 | mg/Kg | 6010C |
| Magnesium | | 3200 | | 30 | mg/Kg | 6010C |
| Manganese | | 1300 | Q D | 22 | mg/Kg | 6010C |
| Molybdenum | | 0.34 | J | 2.5 | mg/Kg | 6010C |
| Nickel | | 13 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 860 | J D | 1500 | mg/Kg | 6010C |
| Strontium | | 10 | Q D | 7.4 | mg/Kg | 6010C |
| Vanadium | | 17 | | 2.0 | mg/Kg | 6010C |
| Zinc | | 45 | | 7.9 | mg/Kg | 6010C |
| Percent Moisture | | 7.6 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |
| **280-45026-11** | **B255SCS1004AA** | | | | | |
| Dimethyl phthalate | | 350 | J | 370 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 21 | J | 370 | ug/Kg | 8270D/DoD |
| Pyrene | | 44 | J | 450 | ug/Kg | 8270D/DoD |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-12** | **B255SCS1008AA** | | | | | |
| Acenaphthene | | 11 | J | 350 | ug/Kg | 8270D/DoD |
| Acenaphthylene | | 160 | J | 350 | ug/Kg | 8270D/DoD |
| Anthracene | | 100 | J | 350 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 370 | | 350 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 420 | | 350 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 600 | M | 350 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 330 | J | 350 | ug/Kg | 8270D/DoD |
| Benzo[k]fluoranthene | | 220 | J M | 350 | ug/Kg | 8270D/DoD |
| Bis(2-ethylhexyl) phthalate | | 52 | J | 350 | ug/Kg | 8270D/DoD |
| Chrysene | | 540 | | 350 | ug/Kg | 8270D/DoD |
| Dibenz(a,h)anthracene | | 58 | J M | 350 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 390 | | 350 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 690 | | 350 | ug/Kg | 8270D/DoD |
| Fluorene | | 30 | J | 350 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 330 | J | 350 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 330 | J | 350 | ug/Kg | 8270D/DoD |
| Pyrene | | 900 | | 420 | ug/Kg | 8270D/DoD |
| Percent Moisture | | 12 | | 0.10 | % | Moisture |
| Percent Solids | | 88 | | 0.10 | % | Moisture |
| **280-45026-13** | **B255SCS1012AA** | | | | | |
| Acenaphthylene | | 21 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]anthracene | | 38 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[a]pyrene | | 46 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[b]fluoranthene | | 75 | J | 370 | ug/Kg | 8270D/DoD |
| Benzo[g,h,i]perylene | | 39 | J | 370 | ug/Kg | 8270D/DoD |
| Chrysene | | 52 | J | 370 | ug/Kg | 8270D/DoD |
| Dimethyl phthalate | | 190 | J | 370 | ug/Kg | 8270D/DoD |
| Fluoranthene | | 65 | J | 370 | ug/Kg | 8270D/DoD |
| Indeno[1,2,3-cd]pyrene | | 30 | J | 370 | ug/Kg | 8270D/DoD |
| Phenanthrene | | 29 | J | 370 | ug/Kg | 8270D/DoD |
| Pyrene | | 85 | J | 440 | ug/Kg | 8270D/DoD |
| Percent Moisture | | 13 | | 0.10 | % | Moisture |
| Percent Solids | | 87 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-14** | **B255SCS1104AA** | | | | | |
| Aluminum | | 6900 | Q | 46 | mg/Kg | 6010C |
| Arsenic | | 3.5 | | 2.3 | mg/Kg | 6010C |
| Barium | | 23 | | 1.8 | mg/Kg | 6010C |
| Beryllium | | 0.34 | J | 0.46 | mg/Kg | 6010C |
| Boron | | 1.8 | J | 9.1 | mg/Kg | 6010C |
| Cadmium | | 0.22 | J Q | 0.46 | mg/Kg | 6010C |
| Calcium | | 1800 | | 91 | mg/Kg | 6010C |
| Chromium | | 9.5 | Q | 3.2 | mg/Kg | 6010C |
| Cobalt | | 5.3 | | 0.91 | mg/Kg | 6010C |
| Copper | | 29 | Q | 4.6 | mg/Kg | 6010C |
| Iron | | 16000 | | 73 | mg/Kg | 6010C |
| Lead | | 8.7 | | 0.82 | mg/Kg | 6010C |
| Magnesium | | 2800 | | 27 | mg/Kg | 6010C |
| Manganese | | 510 | Q | 4.1 | mg/Kg | 6010C |
| Molybdenum | | 0.40 | J | 2.3 | mg/Kg | 6010C |
| Nickel | | 13 | | 3.7 | mg/Kg | 6010C |
| Potassium | | 830 | | 270 | mg/Kg | 6010C |
| Sodium | | 70 | J | 460 | mg/Kg | 6010C |
| Strontium | | 5.6 | Q | 1.4 | mg/Kg | 6010C |
| Vanadium | | 14 | | 1.8 | mg/Kg | 6010C |
| Zinc | | 46 | | 7.3 | mg/Kg | 6010C |
| Percent Moisture | | 8.0 | | 0.10 | % | Moisture |
| Percent Solids | | 92 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-15** | **B255SCS1108AA** | | | | | |
| Aluminum | | 9100 | Q | 54 | mg/Kg | 6010C |
| Arsenic | | 5.4 | | 2.7 | mg/Kg | 6010C |
| Barium | | 47 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.47 | J | 0.54 | mg/Kg | 6010C |
| Boron | | 2.9 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.44 | J Q | 0.54 | mg/Kg | 6010C |
| Calcium | | 8400 | | 110 | mg/Kg | 6010C |
| Chromium | | 17 | Q | 3.8 | mg/Kg | 6010C |
| Cobalt | | 7.6 | | 1.1 | mg/Kg | 6010C |
| Copper | | 63 | Q | 5.4 | mg/Kg | 6010C |
| Iron | | 20000 | | 87 | mg/Kg | 6010C |
| Lead | | 18 | | 0.98 | mg/Kg | 6010C |
| Magnesium | | 4000 | | 33 | mg/Kg | 6010C |
| Manganese | | 620 | Q | 4.9 | mg/Kg | 6010C |
| Molybdenum | | 0.91 | J | 2.7 | mg/Kg | 6010C |
| Nickel | | 18 | | 4.3 | mg/Kg | 6010C |
| Potassium | | 1100 | | 330 | mg/Kg | 6010C |
| Strontium | | 32 | Q | 1.6 | mg/Kg | 6010C |
| Vanadium | | 16 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 67 | | 8.7 | mg/Kg | 6010C |
| Percent Moisture | | 15 | | 0.10 | % | Moisture |
| Percent Solids | | 85 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-16** | **B255SCS1112AA** | | | | | |
| Aluminum | | 8700 | Q | 56 | mg/Kg | 6010C |
| Arsenic | | 5.3 | | 2.8 | mg/Kg | 6010C |
| Barium | | 43 | | 2.2 | mg/Kg | 6010C |
| Beryllium | | 0.38 | J | 0.56 | mg/Kg | 6010C |
| Boron | | 2.1 | J | 11 | mg/Kg | 6010C |
| Cadmium | | 0.20 | J Q | 0.56 | mg/Kg | 6010C |
| Calcium | | 2500 | | 110 | mg/Kg | 6010C |
| Chromium | | 14 | Q | 3.9 | mg/Kg | 6010C |
| Cobalt | | 7.5 | | 1.1 | mg/Kg | 6010C |
| Copper | | 62 | Q | 5.6 | mg/Kg | 6010C |
| Iron | | 22000 | | 90 | mg/Kg | 6010C |
| Lead | | 5.8 | | 1.0 | mg/Kg | 6010C |
| Magnesium | | 3900 | | 34 | mg/Kg | 6010C |
| Manganese | | 1500 | Q D | 25 | mg/Kg | 6010C |
| Molybdenum | | 0.60 | J | 2.8 | mg/Kg | 6010C |
| Nickel | | 15 | | 4.5 | mg/Kg | 6010C |
| Potassium | | 930 | | 340 | mg/Kg | 6010C |
| Strontium | | 7.6 | Q | 1.7 | mg/Kg | 6010C |
| Vanadium | | 16 | | 2.2 | mg/Kg | 6010C |
| Zinc | | 86 | | 9.0 | mg/Kg | 6010C |
| Percent Moisture | | 12 | | 0.10 | % | Moisture |
| Percent Solids | | 88 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **280-45026-17** | **B255SCS1116AA** | | | | | |
| Aluminum | | 8300 | Q | 49 | mg/Kg | 6010C |
| Arsenic | | 4.8 | | 2.4 | mg/Kg | 6010C |
| Barium | | 39 | | 1.9 | mg/Kg | 6010C |
| Beryllium | | 0.36 | J | 0.49 | mg/Kg | 6010C |
| Boron | | 1.9 | J | 9.7 | mg/Kg | 6010C |
| Cadmium | | 0.21 | J Q | 0.49 | mg/Kg | 6010C |
| Calcium | | 6500 | | 97 | mg/Kg | 6010C |
| Chromium | | 24 | Q | 3.4 | mg/Kg | 6010C |
| Cobalt | | 6.7 | | 0.97 | mg/Kg | 6010C |
| Copper | | 35 | Q | 4.9 | mg/Kg | 6010C |
| Iron | | 20000 | | 78 | mg/Kg | 6010C |
| Lead | | 7.1 | | 0.88 | mg/Kg | 6010C |
| Magnesium | | 4000 | | 29 | mg/Kg | 6010C |
| Manganese | | 1300 | Q D | 22 | mg/Kg | 6010C |
| Molybdenum | | 0.76 | J | 2.4 | mg/Kg | 6010C |
| Nickel | | 15 | | 3.9 | mg/Kg | 6010C |
| Potassium | | 880 | | 290 | mg/Kg | 6010C |
| Strontium | | 15 | Q | 1.5 | mg/Kg | 6010C |
| Vanadium | | 16 | | 1.9 | mg/Kg | 6010C |
| Zinc | | 50 | | 7.8 | mg/Kg | 6010C |
| Percent Moisture | | 11 | | 0.10 | % | Moisture |
| Percent Solids | | 89 | | 0.10 | % | Moisture |

# METHOD SUMMARY

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Semivolatile Organic Compounds (GC/MS) | TAL DEN | SW846 8270D/DoD | |
| Ultrasonic Extraction | TAL DEN | | SW846 3550C |
| Metals (ICP) | TAL DEN | SW846 6010C | |
| Preparation, Metals | TAL DEN | | SW846 3050B |
| Percent Moisture | TAL DEN | EPA Moisture | |

**Lab References:**

TAL DEN = TestAmerica Denver

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: FPM Remediations Inc

Job Number: 280-45026-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8270D/DoD | Hoffman, Michael G | MGH |
| SW846 6010C | Harre, John K | JKH |
| EPA Moisture | McKittrick, Ian B | IBM |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0904AA**

Lab Sample ID: 280-45026-8 | Date Sampled: 07/29/2013 1450
Client Matrix: Solid | % Moisture: 16.1 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5774.D |
| Dilution: | 4.0 | | | Initial Weight/Volume: | 30.5 g |
| Analysis Date: | 08/14/2013 1939 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 780 | U | 230 | 1500 |
| 1,2,4,5-Tetrachlorobenzene | | 310 | U | 230 | 1500 |
| 1,2,4-Trichlorobenzene | | 150 | U | 130 | 1500 |
| 1,2-Dichlorobenzene | | 150 | U | 100 | 1500 |
| 1,2-Diphenylhydrazine | | 150 | U | 100 | 1500 |
| 1,3-Dichlorobenzene | | 150 | U | 56 | 1500 |
| 1,4-Dichlorobenzene | | 150 | U | 64 | 1500 |
| 2,2'-oxybis[1-chloropropane] | | 150 | U | 110 | 1500 |
| 2,3,4,6-Tetrachlorophenol | | 780 | U | 640 | 7500 |
| 2,4,5-Trichlorophenol | | 610 | U | 47 | 1500 |
| 2,4,6-Trichlorophenol | | 310 | U | 47 | 1500 |
| 2,4-Dichlorophenol | | 310 | U | 47 | 1500 |
| 2,4-Dimethylphenol | | 610 | U | 310 | 1500 |
| 2,4-Dinitrophenol | | 3100 | U | 1600 | 7500 |
| 2,4-Dinitrotoluene | | 610 | U | 310 | 1500 |
| 2,6-Dichlorophenol | | 610 | U | 320 | 1500 |
| 2,6-Dinitrotoluene | | 310 | U | 130 | 1500 |
| 2-Chloronaphthalene | | 150 | U | 47 | 1500 |
| 2-Chlorophenol | | 150 | U | 98 | 1500 |
| 2-Methylnaphthalene | | 150 | U | 89 | 1500 |
| 2-Methylphenol | | 150 | U | 61 | 1500 |
| 2-Nitroaniline | | 310 | U | 230 | 7500 |
| 2-Nitrophenol | | 310 | U | 47 | 1500 |
| 3 & 4 Methylphenol | | 310 | U | 150 | 1500 |
| 3,3'-Dichlorobenzidine | | 1500 | U | 420 | 7500 |
| 3-Nitroaniline | | 620 | U | 340 | 7500 |
| 4,6-Dinitro-2-methylphenol | | 3100 | U | 1500 | 7500 |
| 4-Bromophenyl phenyl ether | | 150 | U | 89 | 1500 |
| 4-Chloro-3-methylphenol | | 610 | U | 310 | 1500 |
| 4-Chloroaniline | | 610 | U | 380 | 1500 |
| 4-Chlorophenyl phenyl ether | | 310 | U | 98 | 1500 |
| 4-Nitroaniline | | 610 | U | 340 | 7500 |
| 4-Nitrophenol | | 1500 | U | 450 | 7500 |
| Acenaphthene | | 80 | U | 48 | 1500 |
| Acenaphthylene | | 110 | J | 80 | 1500 |
| Acetophenone | | 150 | U | 94 | 1500 |
| Anthracene | | 160 | J | 80 | 1500 |
| Atrazine | | 610 | U | 170 | 1500 |
| Benzaldehyde | | 310 | U | 180 | 1500 |
| Benzidine | | 19000 | U | 4600 | 19000 |
| Benzo[a]anthracene | | 530 | J | 94 | 1500 |
| Benzo[a]pyrene | | 430 | J | 94 | 1500 |
| Benzo[b]fluoranthene | | 680 | J | 120 | 1500 |
| Benzo[g,h,i]perylene | | 250 | J | 75 | 1500 |
| Benzo[k]fluoranthene | | 310 | U | 190 | 1500 |
| Benzoic acid | | 3100 | U | 1500 | 7500 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0904AA**

Lab Sample ID: 280-45026-8 | Date Sampled: 07/29/2013 1450
Client Matrix: Solid | % Moisture: 16.1 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5774.D |
| Dilution: | 4.0 | | | Initial Weight/Volume: | 30.5 g |
| Analysis Date: | 08/14/2013 1939 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 150 | U | 47 | 1500 |
| Bis(2-chloroethoxy)methane | | 310 | U | 110 | 1500 |
| Bis(2-chloroethyl)ether | | 150 | U | 78 | 1500 |
| Bis(2-ethylhexyl) phthalate | | 310 | U | 220 | 1500 |
| Butyl benzyl phthalate | | 310 | U | 200 | 1500 |
| Caprolactam | | 1500 | U | 500 | 7500 |
| Carbazole | | 310 | U | 170 | 1500 |
| Chrysene | | 630 | J | 130 | 1500 |
| Dibenz(a,h)anthracene | | 150 | U | 89 | 1500 |
| Dibenzofuran | | 150 | U | 94 | 1500 |
| Diethyl phthalate | | 150 | U | 120 | 3100 |
| Dimethyl phthalate | | 400 | J | 110 | 1500 |
| Di-n-butyl phthalate | | 150 | U | 140 | 1500 |
| Di-n-octyl phthalate | | 310 | U | 68 | 1500 |
| Fluoranthene | | 1000 | J | 170 | 1500 |
| Fluorene | | 150 | U | 84 | 1500 |
| Hexachlorobenzene | | 310 | U | 140 | 1500 |
| Hexachlorobutadiene | | 310 | U | 47 | 1500 |
| Hexachlorocyclopentadiene | | 310 | U | 230 | 8000 |
| Hexachloroethane | | 150 | U | 100 | 1500 |
| Indeno[1,2,3-cd]pyrene | | 260 | J | 100 | 1500 |
| Isophorone | | 150 | U | 80 | 1500 |
| Naphthalene | | 310 | U | 150 | 1500 |
| Nitrobenzene | | 150 | U | 100 | 1500 |
| N-Nitrosodimethylamine | | 310 | U | 170 | 2400 |
| N-Nitrosodi-n-propylamine | | 310 | U | 150 | 1500 |
| N-Nitrosodiphenylamine | | 150 | U | 98 | 1500 |
| N-Nitrosopyrrolidine | | 610 | U | 300 | 1500 |
| Pentachlorophenol | | 3100 | U | 1500 | 7500 |
| Phenanthrene | | 810 | J | 80 | 1500 |
| Phenol | | 150 | U | 84 | 1500 |
| Pyrene | | 1200 | J | 57 | 1900 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 80 | D | 35 - 125 |
| 2-Fluorobiphenyl | 85 | D | 45 - 105 |
| 2-Fluorophenol (Surr) | 78 | D | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | D | 35 - 100 |
| Phenol-d5 (Surr) | 84 | D | 40 - 100 |
| Terphenyl-d14 (Surr) | 89 | D | 30 - 125 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0908AA**

Lab Sample ID: 280-45026-9 | Date Sampled: 07/29/2013 1500
Client Matrix: Solid | % Moisture: 14.6 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5775.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.0 g |
| Analysis Date: | 08/14/2013 2006 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 190 | U | 57 | 370 |
| 1,2,4,5-Tetrachlorobenzene | | 76 | U | 56 | 370 |
| 1,2,4-Trichlorobenzene | | 37 | U | 32 | 370 |
| 1,2-Dichlorobenzene | | 37 | U | 25 | 370 |
| 1,2-Diphenylhydrazine | | 37 | U | 25 | 370 |
| 1,3-Dichlorobenzene | | 37 | U | 14 | 370 |
| 1,4-Dichlorobenzene | | 37 | U | 15 | 370 |
| 2,2'-oxybis[1-chloropropane] | | 37 | U | 26 | 370 |
| 2,3,4,6-Tetrachlorophenol | | 190 | U | 160 | 1800 |
| 2,4,5-Trichlorophenol | | 150 | U | 11 | 370 |
| 2,4,6-Trichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dimethylphenol | | 150 | U | 75 | 370 |
| 2,4-Dinitrophenol | | 760 | U | 380 | 1800 |
| 2,4-Dinitrotoluene | | 150 | U | 75 | 370 |
| 2,6-Dichlorophenol | | 150 | U | 78 | 370 |
| 2,6-Dinitrotoluene | | 75 | U | 32 | 370 |
| 2-Chloronaphthalene | | 37 | U | 11 | 370 |
| 2-Chlorophenol | | 37 | U | 24 | 370 |
| 2-Methylnaphthalene | | 37 | U | 22 | 370 |
| 2-Methylphenol | | 37 | U | 15 | 370 |
| 2-Nitroaniline | | 75 | U | 57 | 1800 |
| 2-Nitrophenol | | 75 | U | 11 | 370 |
| 3 & 4 Methylphenol | | 75 | U | 37 | 370 |
| 3,3'-Dichlorobenzidine | | 370 | U | 100 | 1800 |
| 3-Nitroaniline | | 150 | U | 83 | 1800 |
| 4,6-Dinitro-2-methylphenol | | 750 | U | 370 | 1800 |
| 4-Bromophenyl phenyl ether | | 37 | U | 22 | 370 |
| 4-Chloro-3-methylphenol | | 150 | U | 75 | 370 |
| 4-Chloroaniline | | 150 | U | 93 | 370 |
| 4-Chlorophenyl phenyl ether | | 75 | U | 24 | 370 |
| 4-Nitroaniline | | 150 | U | 82 | 1800 |
| 4-Nitrophenol | | 370 | U | 110 | 1800 |
| Acenaphthene | | 19 | U | 12 | 370 |
| Acenaphthylene | | 31 | J | 19 | 370 |
| Acetophenone | | 37 | U | 23 | 370 |
| Anthracene | | 37 | U | 19 | 370 |
| Atrazine | | 150 | U | 42 | 370 |
| Benzaldehyde | | 76 | U | 44 | 370 |
| Benzidine | | 4500 | U | 1100 | 4500 |
| Benzo[a]anthracene | | 51 | J | 23 | 370 |
| Benzo[a]pyrene | | 62 | J | 23 | 370 |
| Benzo[b]fluoranthene | | 89 | J M | 30 | 370 |
| Benzo[g,h,i]perylene | | 55 | J | 18 | 370 |
| Benzo[k]fluoranthene | | 75 | U M | 45 | 370 |
| Benzoic acid | | 750 | U | 370 | 1800 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0908AA**

Lab Sample ID: 280-45026-9 | Date Sampled: 07/29/2013 1500
Client Matrix: Solid | % Moisture: 14.6 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5775.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.0 g |
| Analysis Date: | 08/14/2013 2006 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 37 | U | 11 | 370 |
| Bis(2-chloroethoxy)methane | | 75 | U | 26 | 370 |
| Bis(2-chloroethyl)ether | | 37 | U | 19 | 370 |
| Bis(2-ethylhexyl) phthalate | | 75 | U | 52 | 370 |
| Butyl benzyl phthalate | | 75 | U | 49 | 370 |
| Caprolactam | | 370 | U | 120 | 1800 |
| Carbazole | | 76 | U | 41 | 370 |
| Chrysene | | 68 | J | 31 | 370 |
| Dibenz(a,h)anthracene | | 37 | U | 22 | 370 |
| Dibenzofuran | | 37 | U | 23 | 370 |
| Diethyl phthalate | | 37 | U | 29 | 750 |
| Dimethyl phthalate | | 220 | J | 26 | 370 |
| Di-n-butyl phthalate | | 37 | U | 33 | 370 |
| Di-n-octyl phthalate | | 75 | U | 16 | 370 |
| Fluoranthene | | 78 | J | 41 | 370 |
| Fluorene | | 37 | U | 20 | 370 |
| Hexachlorobenzene | | 75 | U | 33 | 370 |
| Hexachlorobutadiene | | 75 | U | 11 | 370 |
| Hexachlorocyclopentadiene | | 75 | U | 57 | 1900 |
| Hexachloroethane | | 37 | U | 24 | 370 |
| Indeno[1,2,3-cd]pyrene | | 53 | J | 25 | 370 |
| Isophorone | | 37 | U | 19 | 370 |
| Naphthalene | | 75 | U | 35 | 370 |
| Nitrobenzene | | 37 | U | 25 | 370 |
| N-Nitrosodimethylamine | | 75 | U | 42 | 590 |
| N-Nitrosodi-n-propylamine | | 75 | U | 35 | 370 |
| N-Nitrosodiphenylamine | | 37 | U | 24 | 370 |
| N-Nitrosopyrrolidine | | 150 | U | 73 | 370 |
| Pentachlorophenol | | 760 | U | 370 | 1800 |
| Phenanthrene | | 36 | J | 19 | 370 |
| Phenol | | 37 | U | 20 | 370 |
| Pyrene | | 94 | J | 14 | 450 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 90 | | 35 - 125 |
| 2-Fluorobiphenyl | 86 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 80 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | | 35 - 100 |
| Phenol-d5 (Surr) | 87 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 97 | | 30 - 125 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0912AA**

Lab Sample ID: 280-45026-10 | Date Sampled: 07/29/2013 1505
Client Matrix: Solid | % Moisture: 7.6 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5776.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.9 g |
| Analysis Date: | 08/14/2013 2032 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 180 | U | 53 | 350 |
| 1,2,4,5-Tetrachlorobenzene | | 70 | U | 51 | 350 |
| 1,2,4-Trichlorobenzene | | 35 | U | 29 | 350 |
| 1,2-Dichlorobenzene | | 35 | U | 23 | 350 |
| 1,2-Diphenylhydrazine | | 35 | U | 23 | 350 |
| 1,3-Dichlorobenzene | | 35 | U | 13 | 350 |
| 1,4-Dichlorobenzene | | 35 | U | 14 | 350 |
| 2,2'-oxybis[1-chloropropane] | | 35 | U | 24 | 350 |
| 2,3,4,6-Tetrachlorophenol | | 180 | U | 140 | 1700 |
| 2,4,5-Trichlorophenol | | 140 | U | 11 | 350 |
| 2,4,6-Trichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dimethylphenol | | 140 | U | 69 | 350 |
| 2,4-Dinitrophenol | | 700 | U | 350 | 1700 |
| 2,4-Dinitrotoluene | | 140 | U | 69 | 350 |
| 2,6-Dichlorophenol | | 140 | U | 73 | 350 |
| 2,6-Dinitrotoluene | | 69 | U | 29 | 350 |
| 2-Chloronaphthalene | | 35 | U | 11 | 350 |
| 2-Chlorophenol | | 35 | U | 22 | 350 |
| 2-Methylnaphthalene | | 35 | U | 20 | 350 |
| 2-Methylphenol | | 35 | U | 14 | 350 |
| 2-Nitroaniline | | 69 | U | 53 | 1700 |
| 2-Nitrophenol | | 69 | U | 11 | 350 |
| 3 & 4 Methylphenol | | 69 | U | 35 | 350 |
| 3,3'-Dichlorobenzidine | | 350 | U | 95 | 1700 |
| 3-Nitroaniline | | 140 | U | 77 | 1700 |
| 4,6-Dinitro-2-methylphenol | | 690 | U | 350 | 1700 |
| 4-Bromophenyl phenyl ether | | 35 | U | 20 | 350 |
| 4-Chloro-3-methylphenol | | 140 | U | 69 | 350 |
| 4-Chloroaniline | | 140 | U | 86 | 350 |
| 4-Chlorophenyl phenyl ether | | 69 | U | 22 | 350 |
| 4-Nitroaniline | | 140 | U | 76 | 1700 |
| 4-Nitrophenol | | 350 | U | 100 | 1700 |
| Acenaphthene | | 18 | U | 11 | 350 |
| Acenaphthylene | | 35 | U | 18 | 350 |
| Acetophenone | | 35 | U | 21 | 350 |
| Anthracene | | 35 | U | 18 | 350 |
| Atrazine | | 140 | U | 39 | 350 |
| Benzaldehyde | | 70 | U | 41 | 350 |
| Benzidine | | 4200 | U | 1000 | 4200 |
| Benzo[a]anthracene | | 35 | U | 21 | 350 |
| Benzo[a]pyrene | | 35 | U | 21 | 350 |
| Benzo[b]fluoranthene | | 35 | U | 28 | 350 |
| Benzo[g,h,i]perylene | | 35 | U | 17 | 350 |
| Benzo[k]fluoranthene | | 69 | U | 42 | 350 |
| Benzoic acid | | 690 | U | 350 | 1700 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0912AA**

Lab Sample ID: 280-45026-10 | Date Sampled: 07/29/2013 1505
Client Matrix: Solid | % Moisture: 7.6 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5776.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.9 g |
| Analysis Date: | 08/14/2013 2032 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 35 | U | 11 | 350 |
| Bis(2-chloroethoxy)methane | | 69 | U | 24 | 350 |
| Bis(2-chloroethyl)ether | | 35 | U | 17 | 350 |
| Bis(2-ethylhexyl) phthalate | | 69 | U | 48 | 350 |
| Butyl benzyl phthalate | | 69 | U | 45 | 350 |
| Caprolactam | | 350 | U | 110 | 1700 |
| Carbazole | | 70 | U | 38 | 350 |
| Chrysene | | 35 | U | 28 | 350 |
| Dibenz(a,h)anthracene | | 35 | U | 20 | 350 |
| Dibenzofuran | | 35 | U | 21 | 350 |
| Diethyl phthalate | | 35 | U | 27 | 690 |
| Dimethyl phthalate | | 140 | J | 24 | 350 |
| Di-n-butyl phthalate | | 35 | U | 30 | 350 |
| Di-n-octyl phthalate | | 69 | U | 15 | 350 |
| Fluoranthene | | 69 | U | 38 | 350 |
| Fluorene | | 35 | U | 19 | 350 |
| Hexachlorobenzene | | 69 | U | 30 | 350 |
| Hexachlorobutadiene | | 69 | U | 11 | 350 |
| Hexachlorocyclopentadiene | | 69 | U | 53 | 1800 |
| Hexachloroethane | | 35 | U | 22 | 350 |
| Indeno[1,2,3-cd]pyrene | | 35 | U | 23 | 350 |
| Isophorone | | 35 | U | 18 | 350 |
| Naphthalene | | 69 | U | 33 | 350 |
| Nitrobenzene | | 35 | U | 23 | 350 |
| N-Nitrosodimethylamine | | 69 | U | 39 | 550 |
| N-Nitrosodi-n-propylamine | | 69 | U | 33 | 350 |
| N-Nitrosodiphenylamine | | 35 | U | 22 | 350 |
| N-Nitrosopyrrolidine | | 140 | U | 67 | 350 |
| Pentachlorophenol | | 700 | U | 350 | 1700 |
| Phenanthrene | | 35 | U | 18 | 350 |
| Phenol | | 35 | U | 19 | 350 |
| Pyrene | | 35 | U | 13 | 420 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 85 | | 35 - 125 |
| 2-Fluorobiphenyl | 86 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 82 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 82 | | 35 - 100 |
| Phenol-d5 (Surr) | 87 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 93 | | 30 - 125 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1004AA**

Lab Sample ID: 280-45026-11 | Date Sampled: 07/29/2013 1510
Client Matrix: Solid | % Moisture: 15.4 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5777.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2059 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 190 | U | 57 | 370 |
| 1,2,4,5-Tetrachlorobenzene | | 76 | U | 56 | 370 |
| 1,2,4-Trichlorobenzene | | 37 | U | 32 | 370 |
| 1,2-Dichlorobenzene | | 37 | U | 25 | 370 |
| 1,2-Diphenylhydrazine | | 37 | U | 25 | 370 |
| 1,3-Dichlorobenzene | | 37 | U | 14 | 370 |
| 1,4-Dichlorobenzene | | 37 | U | 15 | 370 |
| 2,2'-oxybis[1-chloropropane] | | 37 | U | 26 | 370 |
| 2,3,4,6-Tetrachlorophenol | | 190 | U | 160 | 1800 |
| 2,4,5-Trichlorophenol | | 150 | U | 11 | 370 |
| 2,4,6-Trichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dichlorophenol | | 75 | U | 11 | 370 |
| 2,4-Dimethylphenol | | 150 | U | 75 | 370 |
| 2,4-Dinitrophenol | | 760 | U | 380 | 1800 |
| 2,4-Dinitrotoluene | | 150 | U | 75 | 370 |
| 2,6-Dichlorophenol | | 150 | U | 78 | 370 |
| 2,6-Dinitrotoluene | | 75 | U | 32 | 370 |
| 2-Chloronaphthalene | | 37 | U | 11 | 370 |
| 2-Chlorophenol | | 37 | U | 24 | 370 |
| 2-Methylnaphthalene | | 37 | U | 22 | 370 |
| 2-Methylphenol | | 37 | U | 15 | 370 |
| 2-Nitroaniline | | 75 | U | 57 | 1800 |
| 2-Nitrophenol | | 75 | U | 11 | 370 |
| 3 & 4 Methylphenol | | 75 | U | 37 | 370 |
| 3,3'-Dichlorobenzidine | | 370 | U | 100 | 1800 |
| 3-Nitroaniline | | 150 | U | 83 | 1800 |
| 4,6-Dinitro-2-methylphenol | | 750 | U | 370 | 1800 |
| 4-Bromophenyl phenyl ether | | 37 | U | 22 | 370 |
| 4-Chloro-3-methylphenol | | 150 | U | 75 | 370 |
| 4-Chloroaniline | | 150 | U | 93 | 370 |
| 4-Chlorophenyl phenyl ether | | 75 | U | 24 | 370 |
| 4-Nitroaniline | | 150 | U | 82 | 1800 |
| 4-Nitrophenol | | 370 | U | 110 | 1800 |
| Acenaphthene | | 19 | U | 12 | 370 |
| Acenaphthylene | | 37 | U | 19 | 370 |
| Acetophenone | | 37 | U | 23 | 370 |
| Anthracene | | 37 | U | 19 | 370 |
| Atrazine | | 150 | U | 42 | 370 |
| Benzaldehyde | | 76 | U | 44 | 370 |
| Benzidine | | 4500 | U | 1100 | 4500 |
| Benzo[a]anthracene | | 37 | U | 23 | 370 |
| Benzo[a]pyrene | | 37 | U M | 23 | 370 |
| Benzo[b]fluoranthene | | 37 | U | 30 | 370 |
| Benzo[g,h,i]perylene | | 37 | U | 18 | 370 |
| Benzo[k]fluoranthene | | 75 | U | 45 | 370 |
| Benzoic acid | | 750 | U | 370 | 1800 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1004AA**

Lab Sample ID: 280-45026-11 | Date Sampled: 07/29/2013 1510
Client Matrix: Solid | % Moisture: 15.4 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5777.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2059 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 37 | U | 11 | 370 |
| Bis(2-chloroethoxy)methane | | 75 | U | 26 | 370 |
| Bis(2-chloroethyl)ether | | 37 | U | 19 | 370 |
| Bis(2-ethylhexyl) phthalate | | 75 | U | 52 | 370 |
| Butyl benzyl phthalate | | 75 | U | 49 | 370 |
| Caprolactam | | 370 | U | 120 | 1800 |
| Carbazole | | 76 | U | 41 | 370 |
| Chrysene | | 37 | U | 31 | 370 |
| Dibenz(a,h)anthracene | | 37 | U | 22 | 370 |
| Dibenzofuran | | 37 | U | 23 | 370 |
| Diethyl phthalate | | 37 | U | 29 | 750 |
| Dimethyl phthalate | | 350 | J | 26 | 370 |
| Di-n-butyl phthalate | | 37 | U | 33 | 370 |
| Di-n-octyl phthalate | | 75 | U | 16 | 370 |
| Fluoranthene | | 75 | U | 41 | 370 |
| Fluorene | | 37 | U | 20 | 370 |
| Hexachlorobenzene | | 75 | U | 33 | 370 |
| Hexachlorobutadiene | | 75 | U | 11 | 370 |
| Hexachlorocyclopentadiene | | 75 | U | 57 | 1900 |
| Hexachloroethane | | 37 | U | 24 | 370 |
| Indeno[1,2,3-cd]pyrene | | 37 | U | 25 | 370 |
| Isophorone | | 37 | U | 19 | 370 |
| Naphthalene | | 75 | U | 35 | 370 |
| Nitrobenzene | | 37 | U | 25 | 370 |
| N-Nitrosodimethylamine | | 75 | U | 42 | 590 |
| N-Nitrosodi-n-propylamine | | 75 | U | 35 | 370 |
| N-Nitrosodiphenylamine | | 37 | U | 24 | 370 |
| N-Nitrosopyrrolidine | | 150 | U | 73 | 370 |
| Pentachlorophenol | | 760 | U | 370 | 1800 |
| Phenanthrene | | 21 | J | 19 | 370 |
| Phenol | | 37 | U | 20 | 370 |
| Pyrene | | 44 | J | 14 | 450 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 84 | | 35 - 125 |
| 2-Fluorobiphenyl | 80 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 79 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | | 35 - 100 |
| Phenol-d5 (Surr) | 81 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 91 | | 30 - 125 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1008AA**

Lab Sample ID: 280-45026-12 | Date Sampled: 07/29/2013 1515
Client Matrix: Solid | % Moisture: 12.4 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5778.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 32.6 g |
| Analysis Date: | 08/14/2013 2125 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 180 | U | 53 | 350 |
| 1,2,4,5-Tetrachlorobenzene | | 70 | U | 51 | 350 |
| 1,2,4-Trichlorobenzene | | 35 | U | 29 | 350 |
| 1,2-Dichlorobenzene | | 35 | U | 23 | 350 |
| 1,2-Diphenylhydrazine | | 35 | U | 23 | 350 |
| 1,3-Dichlorobenzene | | 35 | U | 13 | 350 |
| 1,4-Dichlorobenzene | | 35 | U | 14 | 350 |
| 2,2'-oxybis[1-chloropropane] | | 35 | U | 24 | 350 |
| 2,3,4,6-Tetrachlorophenol | | 180 | U | 140 | 1700 |
| 2,4,5-Trichlorophenol | | 140 | U | 11 | 350 |
| 2,4,6-Trichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dichlorophenol | | 69 | U | 11 | 350 |
| 2,4-Dimethylphenol | | 140 | U | 69 | 350 |
| 2,4-Dinitrophenol | | 700 | U | 350 | 1700 |
| 2,4-Dinitrotoluene | | 140 | U | 69 | 350 |
| 2,6-Dichlorophenol | | 140 | U | 72 | 350 |
| 2,6-Dinitrotoluene | | 69 | U | 29 | 350 |
| 2-Chloronaphthalene | | 35 | U | 11 | 350 |
| 2-Chlorophenol | | 35 | U | 22 | 350 |
| 2-Methylnaphthalene | | 35 | U | 20 | 350 |
| 2-Methylphenol | | 35 | U | 14 | 350 |
| 2-Nitroaniline | | 69 | U | 53 | 1700 |
| 2-Nitrophenol | | 69 | U | 11 | 350 |
| 3 & 4 Methylphenol | | 69 | U | 35 | 350 |
| 3,3'-Dichlorobenzidine | | 350 | U | 95 | 1700 |
| 3-Nitroaniline | | 140 | U | 77 | 1700 |
| 4,6-Dinitro-2-methylphenol | | 690 | U | 350 | 1700 |
| 4-Bromophenyl phenyl ether | | 35 | U | 20 | 350 |
| 4-Chloro-3-methylphenol | | 140 | U | 69 | 350 |
| 4-Chloroaniline | | 140 | U | 86 | 350 |
| 4-Chlorophenyl phenyl ether | | 69 | U | 22 | 350 |
| 4-Nitroaniline | | 140 | U | 76 | 1700 |
| 4-Nitrophenol | | 350 | U | 100 | 1700 |
| Acenaphthene | | 11 | J | 11 | 350 |
| Acenaphthylene | | 160 | J | 18 | 350 |
| Acetophenone | | 35 | U | 21 | 350 |
| Anthracene | | 100 | J | 18 | 350 |
| Atrazine | | 140 | U | 39 | 350 |
| Benzaldehyde | | 70 | U | 41 | 350 |
| Benzidine | | 4200 | U | 1000 | 4200 |
| Benzo[a]anthracene | | 370 | | 21 | 350 |
| Benzo[a]pyrene | | 420 | | 21 | 350 |
| Benzo[b]fluoranthene | | 600 | M | 28 | 350 |
| Benzo[g,h,i]perylene | | 330 | J | 17 | 350 |
| Benzo[k]fluoranthene | | 220 | J M | 42 | 350 |
| Benzoic acid | | 690 | U | 350 | 1700 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1008AA**

Lab Sample ID: 280-45026-12 | Date Sampled: 07/29/2013 1515
Client Matrix: Solid | % Moisture: 12.4 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5778.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 32.6 g |
| Analysis Date: | 08/14/2013 2125 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 35 | U | 11 | 350 |
| Bis(2-chloroethoxy)methane | | 69 | U | 24 | 350 |
| Bis(2-chloroethyl)ether | | 35 | U | 17 | 350 |
| Bis(2-ethylhexyl) phthalate | | 52 | J | 48 | 350 |
| Butyl benzyl phthalate | | 69 | U | 45 | 350 |
| Caprolactam | | 350 | U | 110 | 1700 |
| Carbazole | | 70 | U | 38 | 350 |
| Chrysene | | 540 | | 28 | 350 |
| Dibenz(a,h)anthracene | | 58 | J M | 20 | 350 |
| Dibenzofuran | | 35 | U | 21 | 350 |
| Diethyl phthalate | | 35 | U | 27 | 690 |
| Dimethyl phthalate | | 390 | | 24 | 350 |
| Di-n-butyl phthalate | | 35 | U | 30 | 350 |
| Di-n-octyl phthalate | | 69 | U | 15 | 350 |
| Fluoranthene | | 690 | | 38 | 350 |
| Fluorene | | 30 | J | 19 | 350 |
| Hexachlorobenzene | | 69 | U | 30 | 350 |
| Hexachlorobutadiene | | 69 | U | 11 | 350 |
| Hexachlorocyclopentadiene | | 69 | U | 53 | 1800 |
| Hexachloroethane | | 35 | U | 22 | 350 |
| Indeno[1,2,3-cd]pyrene | | 330 | J | 23 | 350 |
| Isophorone | | 35 | U | 18 | 350 |
| Naphthalene | | 69 | U | 33 | 350 |
| Nitrobenzene | | 35 | U | 23 | 350 |
| N-Nitrosodimethylamine | | 69 | U | 39 | 550 |
| N-Nitrosodi-n-propylamine | | 69 | U | 33 | 350 |
| N-Nitrosodiphenylamine | | 35 | U | 22 | 350 |
| N-Nitrosopyrrolidine | | 140 | U | 67 | 350 |
| Pentachlorophenol | | 700 | U | 350 | 1700 |
| Phenanthrene | | 330 | J | 18 | 350 |
| Phenol | | 35 | U | 19 | 350 |
| Pyrene | | 900 | | 13 | 420 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 92 | | 35 - 125 |
| 2-Fluorobiphenyl | 86 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 81 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 79 | | 35 - 100 |
| Phenol-d5 (Surr) | 86 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 96 | | 30 - 125 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1012AA**

Lab Sample ID: 280-45026-13 | Date Sampled: 07/29/2013 1520
Client Matrix: Solid | % Moisture: 13.4 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5779.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2152 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | | 180 | U | 55 | 370 |
| 1,2,4,5-Tetrachlorobenzene | | 74 | U | 54 | 370 |
| 1,2,4-Trichlorobenzene | | 37 | U | 31 | 370 |
| 1,2-Dichlorobenzene | | 37 | U | 24 | 370 |
| 1,2-Diphenylhydrazine | | 37 | U | 24 | 370 |
| 1,3-Dichlorobenzene | | 37 | U | 13 | 370 |
| 1,4-Dichlorobenzene | | 37 | U | 15 | 370 |
| 2,2'-oxybis[1-chloropropane] | | 37 | U | 25 | 370 |
| 2,3,4,6-Tetrachlorophenol | | 180 | U | 150 | 1800 |
| 2,4,5-Trichlorophenol | | 140 | U | 11 | 370 |
| 2,4,6-Trichlorophenol | | 73 | U | 11 | 370 |
| 2,4-Dichlorophenol | | 73 | U | 11 | 370 |
| 2,4-Dimethylphenol | | 140 | U | 73 | 370 |
| 2,4-Dinitrophenol | | 740 | U | 370 | 1800 |
| 2,4-Dinitrotoluene | | 140 | U | 73 | 370 |
| 2,6-Dichlorophenol | | 140 | U | 76 | 370 |
| 2,6-Dinitrotoluene | | 73 | U | 31 | 370 |
| 2-Chloronaphthalene | | 37 | U | 11 | 370 |
| 2-Chlorophenol | | 37 | U | 23 | 370 |
| 2-Methylnaphthalene | | 37 | U | 21 | 370 |
| 2-Methylphenol | | 37 | U | 14 | 370 |
| 2-Nitroaniline | | 73 | U | 55 | 1800 |
| 2-Nitrophenol | | 73 | U | 11 | 370 |
| 3 & 4 Methylphenol | | 73 | U | 37 | 370 |
| 3,3'-Dichlorobenzidine | | 370 | U | 100 | 1800 |
| 3-Nitroaniline | | 150 | U | 81 | 1800 |
| 4,6-Dinitro-2-methylphenol | | 730 | U | 370 | 1800 |
| 4-Bromophenyl phenyl ether | | 37 | U | 21 | 370 |
| 4-Chloro-3-methylphenol | | 140 | U | 73 | 370 |
| 4-Chloroaniline | | 140 | U | 91 | 370 |
| 4-Chlorophenyl phenyl ether | | 73 | U | 23 | 370 |
| 4-Nitroaniline | | 140 | U | 80 | 1800 |
| 4-Nitrophenol | | 370 | U | 110 | 1800 |
| Acenaphthene | | 19 | U | 11 | 370 |
| Acenaphthylene | | 21 | J | 19 | 370 |
| Acetophenone | | 37 | U | 22 | 370 |
| Anthracene | | 37 | U | 19 | 370 |
| Atrazine | | 140 | U | 41 | 370 |
| Benzaldehyde | | 74 | U | 43 | 370 |
| Benzidine | | 4400 | U | 1100 | 4400 |
| Benzo[a]anthracene | | 38 | J | 22 | 370 |
| Benzo[a]pyrene | | 46 | J | 22 | 370 |
| Benzo[b]fluoranthene | | 75 | J | 29 | 370 |
| Benzo[g,h,i]perylene | | 39 | J | 18 | 370 |
| Benzo[k]fluoranthene | | 73 | U | 44 | 370 |
| Benzoic acid | | 730 | U | 370 | 1800 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1012AA**

Lab Sample ID: 280-45026-13 | Date Sampled: 07/29/2013 1520
Client Matrix: Solid | % Moisture: 13.4 | Date Received: 08/01/2013 0930

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D/DoD | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Prep Method: | 3550C | Prep Batch: | 280-186667 | Lab File ID: | Y5779.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 31.3 g |
| Analysis Date: | 08/14/2013 2152 | | | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Benzyl alcohol | | 37 | U | 11 | 370 |
| Bis(2-chloroethoxy)methane | | 73 | U | 25 | 370 |
| Bis(2-chloroethyl)ether | | 37 | U | 18 | 370 |
| Bis(2-ethylhexyl) phthalate | | 73 | U | 51 | 370 |
| Butyl benzyl phthalate | | 73 | U | 48 | 370 |
| Caprolactam | | 370 | U | 120 | 1800 |
| Carbazole | | 74 | U | 40 | 370 |
| Chrysene | | 52 | J | 30 | 370 |
| Dibenz(a,h)anthracene | | 37 | U | 21 | 370 |
| Dibenzofuran | | 37 | U | 22 | 370 |
| Diethyl phthalate | | 37 | U | 29 | 730 |
| Dimethyl phthalate | | 190 | J | 25 | 370 |
| Di-n-butyl phthalate | | 37 | U | 32 | 370 |
| Di-n-octyl phthalate | | 73 | U | 16 | 370 |
| Fluoranthene | | 65 | J | 40 | 370 |
| Fluorene | | 37 | U | 20 | 370 |
| Hexachlorobenzene | | 73 | U | 32 | 370 |
| Hexachlorobutadiene | | 73 | U | 11 | 370 |
| Hexachlorocyclopentadiene | | 73 | U | 55 | 1900 |
| Hexachloroethane | | 37 | U | 24 | 370 |
| Indeno[1,2,3-cd]pyrene | | 30 | J | 24 | 370 |
| Isophorone | | 37 | U | 19 | 370 |
| Naphthalene | | 73 | U | 34 | 370 |
| Nitrobenzene | | 37 | U | 24 | 370 |
| N-Nitrosodimethylamine | | 73 | U | 41 | 580 |
| N-Nitrosodi-n-propylamine | | 73 | U | 34 | 370 |
| N-Nitrosodiphenylamine | | 37 | U | 23 | 370 |
| N-Nitrosopyrrolidine | | 140 | U | 71 | 370 |
| Pentachlorophenol | | 740 | U | 370 | 1800 |
| Phenanthrene | | 29 | J | 19 | 370 |
| Phenol | | 37 | U | 20 | 370 |
| Pyrene | | 85 | J | 13 | 440 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 87 | | 35 - 125 |
| 2-Fluorobiphenyl | 84 | | 45 - 105 |
| 2-Fluorophenol (Surr) | 80 | | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 78 | | 35 - 100 |
| Phenol-d5 (Surr) | 85 | | 40 - 100 |
| Terphenyl-d14 (Surr) | 93 | | 30 - 125 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0704AA**

Lab Sample ID: 280-45026-1 | Date Sampled: 07/29/2013 1550
Client Matrix: Solid | % Moisture: 15.3 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 0111 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.64 | U | 0.41 | 2.1 |
| Arsenic | | 2.4 | J | 0.71 | 2.7 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 1809 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 3700 | | 1.7 | 54 |
| Barium | | 12 | | 0.082 | 2.1 |
| Beryllium | | 0.17 | J | 0.035 | 0.54 |
| Boron | | 1.4 | J | 1.1 | 11 |
| Cadmium | | 0.083 | J Q | 0.044 | 0.54 |
| Calcium | | 1900 | | 15 | 110 |
| Chromium | | 4.2 | Q | 0.062 | 3.8 |
| Cobalt | | 3.2 | | 0.11 | 1.1 |
| Copper | | 8.5 | Q | 0.23 | 5.4 |
| Iron | | 7900 | | 4.1 | 86 |
| Lead | | 2.2 | | 0.29 | 0.97 |
| Magnesium | | 1700 | | 4.0 | 32 |
| Manganese | | 270 | Q | 0.11 | 4.8 |
| Molybdenum | | 0.54 | U | 0.28 | 2.7 |
| Nickel | | 6.4 | | 0.13 | 4.3 |
| Potassium | | 540 | | 44 | 320 |
| Selenium | | 1.3 | U | 0.92 | 3.2 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Sodium | | 110 | U | 63 | 540 |
| Strontium | | 5.6 | Q | 0.039 | 1.6 |
| Thallium | | 1.3 | U | 0.70 | 3.2 |
| Vanadium | | 6.7 | | 0.10 | 2.1 |
| Zinc | | 15 | | 0.43 | 8.6 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0704AC**

Lab Sample ID: 280-45026-2 | Date Sampled: 07/29/2013 1550
Client Matrix: Solid | % Moisture: 15.0 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.18 g |
| Analysis Date: | 08/15/2013 0114 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.60 | U | 0.38 | 2.0 |
| Arsenic | | 2.0 | J | 0.66 | 2.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.18 g |
| Analysis Date: | 08/15/2013 1811 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 3200 | | 1.5 | 50 |
| Barium | | 10 | | 0.076 | 2.0 |
| Beryllium | | 0.14 | J | 0.033 | 0.50 |
| Boron | | 1.3 | J | 0.98 | 10 |
| Cadmium | | 0.052 | J Q | 0.041 | 0.50 |
| Calcium | | 2000 | | 14 | 100 |
| Chromium | | 3.8 | Q | 0.058 | 3.5 |
| Cobalt | | 2.6 | | 0.10 | 1.0 |
| Copper | | 8.2 | Q | 0.22 | 5.0 |
| Iron | | 7000 | | 3.8 | 80 |
| Lead | | 1.8 | | 0.27 | 0.90 |
| Magnesium | | 1500 | | 3.7 | 30 |
| Manganese | | 240 | Q | 0.10 | 4.5 |
| Molybdenum | | 0.50 | U | 0.26 | 2.5 |
| Nickel | | 5.7 | | 0.12 | 4.0 |
| Potassium | | 490 | | 41 | 300 |
| Selenium | | 1.2 | U | 0.86 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Sodium | | 100 | U | 59 | 500 |
| Strontium | | 4.7 | Q | 0.036 | 1.5 |
| Thallium | | 1.2 | U | 0.65 | 3.0 |
| Vanadium | | 5.8 | | 0.094 | 2.0 |
| Zinc | | 14 | | 0.40 | 8.0 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0708AA**

Lab Sample ID: 280-45026-3 | Date Sampled: 07/29/2013 1554
Client Matrix: Solid | % Moisture: 14.1 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.05 g |
| Analysis Date: | 08/15/2013 0116 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.66 | U | 0.42 | 2.2 |
| Arsenic | | 5.3 | | 0.73 | 2.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.05 g |
| Analysis Date: | 08/15/2013 1814 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 7800 | | 1.7 | 55 |
| Barium | | 34 | | 0.084 | 2.2 |
| Beryllium | | 0.44 | J | 0.037 | 0.55 |
| Boron | | 1.6 | J | 1.1 | 11 |
| Cadmium | | 0.17 | J Q | 0.045 | 0.55 |
| Calcium | | 2300 | | 16 | 110 |
| Chromium | | 10 | Q | 0.064 | 3.9 |
| Cobalt | | 5.1 | | 0.11 | 1.1 |
| Copper | | 36 | Q | 0.24 | 5.5 |
| Iron | | 19000 | | 4.2 | 89 |
| Lead | | 5.5 | | 0.30 | 1.0 |
| Magnesium | | 2700 | | 4.1 | 33 |
| Molybdenum | | 1.0 | J | 0.29 | 2.8 |
| Nickel | | 13 | | 0.14 | 4.4 |
| Potassium | | 660 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.95 | 3.3 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 65 | 550 |
| Strontium | | 9.4 | Q | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.72 | 3.3 |
| Vanadium | | 14 | | 0.10 | 2.2 |
| Zinc | | 34 | | 0.44 | 8.9 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.05 g |
| Analysis Date: | 08/15/2013 1816 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1500 | Q D | 0.55 | 25 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0712AA**

Lab Sample ID: 280-45026-4 | Date Sampled: 07/29/2013 1600
Client Matrix: Solid | % Moisture: 12.0 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 08/15/2013 0118 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 6100 | | 1.6 | 51 |
| Antimony | | 0.61 | U | 0.39 | 2.0 |
| Arsenic | | 4.1 | | 0.67 | 2.5 |
| Barium | | 24 | | 0.077 | 2.0 |
| Beryllium | | 0.37 | J | 0.034 | 0.51 |
| Calcium | | 2900 | | 14 | 100 |
| Iron | | 15000 | | 3.9 | 81 |
| Potassium | | 710 | | 42 | 300 |
| Sodium | | 100 | U | 60 | 510 |
| Strontium | | 10 | Q | 0.037 | 1.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.12 g |
| Analysis Date: | 08/15/2013 1818 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Boron | | 1.8 | J | 0.99 | 10 |
| Cadmium | | 0.14 | J Q | 0.042 | 0.51 |
| Chromium | | 8.3 | Q | 0.059 | 3.6 |
| Cobalt | | 4.7 | | 0.10 | 1.0 |
| Copper | | 23 | Q | 0.22 | 5.1 |
| Lead | | 4.7 | | 0.27 | 0.91 |
| Magnesium | | 2600 | | 3.8 | 30 |
| Manganese | | 670 | Q | 0.10 | 4.6 |
| Molybdenum | | 0.27 | J | 0.26 | 2.5 |
| Nickel | | 9.9 | | 0.12 | 4.1 |
| Selenium | | 1.2 | U | 0.87 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.66 | 3.0 |
| Vanadium | | 16 | | 0.095 | 2.0 |
| Zinc | | 40 | | 0.40 | 8.1 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0804AA**

Lab Sample ID: 280-45026-5 | Date Sampled: 07/29/2013 1530
Client Matrix: Solid | % Moisture: 19.3 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 0121 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.62 | U | 0.40 | 2.1 |
| Arsenic | | 2.7 | | 0.69 | 2.6 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 1821 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 5700 | | 1.6 | 52 |
| Barium | | 23 | | 0.079 | 2.1 |
| Beryllium | | 0.26 | J | 0.034 | 0.52 |
| Boron | | 1.8 | J | 1.0 | 10 |
| Cadmium | | 0.14 | J Q | 0.043 | 0.52 |
| Calcium | | 2700 | | 15 | 100 |
| Chromium | | 7.0 | Q | 0.060 | 3.6 |
| Cobalt | | 4.1 | | 0.10 | 1.0 |
| Copper | | 13 | Q | 0.23 | 5.2 |
| Iron | | 11000 | | 4.0 | 83 |
| Lead | | 14 | | 0.28 | 0.94 |
| Magnesium | | 2200 | | 3.9 | 31 |
| Manganese | | 380 | Q | 0.10 | 4.7 |
| Molybdenum | | 0.52 | U | 0.27 | 2.6 |
| Nickel | | 9.1 | | 0.13 | 4.2 |
| Potassium | | 720 | | 43 | 310 |
| Selenium | | 1.2 | U | 0.90 | 3.1 |
| Silver | | 0.21 | U | 0.17 | 1.6 |
| Sodium | | 100 | U | 61 | 520 |
| Strontium | | 6.3 | Q | 0.037 | 1.6 |
| Thallium | | 1.2 | U | 0.68 | 3.1 |
| Vanadium | | 12 | | 0.098 | 2.1 |
| Zinc | | 33 | | 0.41 | 8.3 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0808AA**

Lab Sample ID: 280-45026-6 | Date Sampled: 07/29/2013 1535
Client Matrix: Solid | % Moisture: 10.4 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 0123 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.66 | U | 0.42 | 2.2 |
| Arsenic | | 1.9 | J | 0.73 | 2.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1823 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 3300 | | 1.7 | 55 |
| Barium | | 11 | | 0.084 | 2.2 |
| Beryllium | | 0.15 | J | 0.036 | 0.55 |
| Boron | | 1.3 | J | 1.1 | 11 |
| Cadmium | | 0.069 | J Q | 0.045 | 0.55 |
| Calcium | | 810 | | 16 | 110 |
| Chromium | | 3.9 | Q | 0.064 | 3.9 |
| Cobalt | | 2.7 | | 0.11 | 1.1 |
| Copper | | 8.0 | Q | 0.24 | 5.5 |
| Iron | | 7200 | | 4.2 | 88 |
| Lead | | 1.5 | | 0.30 | 0.99 |
| Magnesium | | 1400 | | 4.1 | 33 |
| Manganese | | 240 | Q | 0.11 | 5.0 |
| Molybdenum | | 0.55 | U | 0.29 | 2.8 |
| Nickel | | 5.8 | | 0.14 | 4.4 |
| Potassium | | 510 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.95 | 3.3 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 65 | 550 |
| Strontium | | 2.9 | Q | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.72 | 3.3 |
| Vanadium | | 5.9 | | 0.10 | 2.2 |
| Zinc | | 14 | | 0.44 | 8.8 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0812AA**

Lab Sample ID: 280-45026-7 | Date Sampled: 07/29/2013 1540
Client Matrix: Solid | % Moisture: 11.1 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 08/15/2013 0125 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.59 | U | 0.37 | 2.0 |
| Arsenic | | 5.1 | | 0.65 | 2.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.14 g |
| Analysis Date: | 08/15/2013 1825 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 5900 | | 1.5 | 49 |
| Barium | | 29 | | 0.075 | 2.0 |
| Beryllium | | 0.30 | J | 0.033 | 0.49 |
| Boron | | 2.0 | J | 0.97 | 9.9 |
| Cadmium | | 1.0 | Q | 0.040 | 0.49 |
| Calcium | | 2000 | | 14 | 99 |
| Chromium | | 27 | Q | 0.057 | 3.5 |
| Cobalt | | 5.4 | | 0.099 | 0.99 |
| Copper | | 41 | Q | 0.21 | 4.9 |
| Iron | | 14000 | | 3.7 | 79 |
| Lead | | 140 | | 0.27 | 0.89 |
| Magnesium | | 2500 | | 3.6 | 30 |
| Manganese | | 370 | Q | 0.099 | 4.4 |
| Molybdenum | | 0.52 | J | 0.26 | 2.5 |
| Nickel | | 11 | | 0.12 | 3.9 |
| Potassium | | 720 | | 40 | 300 |
| Selenium | | 1.2 | U | 0.85 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Sodium | | 99 | U | 58 | 490 |
| Strontium | | 4.1 | Q | 0.036 | 1.5 |
| Thallium | | 1.2 | U | 0.64 | 3.0 |
| Vanadium | | 11 | | 0.093 | 2.0 |
| Zinc | | 160 | | 0.39 | 7.9 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0904AA**

Lab Sample ID: 280-45026-8 | Date Sampled: 07/29/2013 1450
Client Matrix: Solid | % Moisture: 16.1 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 0137 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.66 | U | 0.42 | 2.2 |
| Arsenic | | 5.2 | | 0.73 | 2.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 1828 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 7800 | | 1.7 | 55 |
| Barium | | 35 | | 0.084 | 2.2 |
| Beryllium | | 0.35 | J | 0.036 | 0.55 |
| Boron | | 2.2 | J | 1.1 | 11 |
| Cadmium | | 0.76 | Q | 0.045 | 0.55 |
| Calcium | | 18000 | | 16 | 110 |
| Chromium | | 11 | Q | 0.064 | 3.9 |
| Cobalt | | 6.0 | | 0.11 | 1.1 |
| Copper | | 33 | Q | 0.24 | 5.5 |
| Iron | | 18000 | | 4.2 | 88 |
| Lead | | 39 | | 0.30 | 0.99 |
| Magnesium | | 3500 | | 4.1 | 33 |
| Manganese | | 860 | Q | 0.11 | 5.0 |
| Molybdenum | | 0.32 | J | 0.29 | 2.8 |
| Nickel | | 13 | | 0.14 | 4.4 |
| Potassium | | 810 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.95 | 3.3 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 65 | 550 |
| Strontium | | 41 | Q | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.72 | 3.3 |
| Vanadium | | 19 | | 0.10 | 2.2 |
| Zinc | | 57 | | 0.44 | 8.8 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0908AA**

Lab Sample ID: 280-45026-9 | Date Sampled: 07/29/2013 1500
Client Matrix: Solid | % Moisture: 14.6 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 0139 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.70 | U | 0.44 | 2.3 |
| Arsenic | | 4.6 | | 0.77 | 2.9 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1839 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 12000 | Q | 1.8 | 58 |
| Barium | | 68 | | 0.088 | 2.3 |
| Beryllium | | 0.48 | J | 0.038 | 0.58 |
| Boron | | 2.1 | J | 1.1 | 12 |
| Cadmium | | 0.52 | J Q | 0.048 | 0.58 |
| Calcium | | 3500 | | 16 | 120 |
| Chromium | | 13 | Q | 0.067 | 4.1 |
| Cobalt | | 6.7 | | 0.12 | 1.2 |
| Copper | | 23 | Q | 0.25 | 5.8 |
| Iron | | 22000 | | 4.4 | 93 |
| Lead | | 16 | | 0.31 | 1.0 |
| Magnesium | | 2800 | | 4.3 | 35 |
| Molybdenum | | 0.68 | J | 0.30 | 2.9 |
| Nickel | | 14 | | 0.14 | 4.6 |
| Potassium | | 780 | | 48 | 350 |
| Selenium | | 1.4 | U | 1.0 | 3.5 |
| Silver | | 0.23 | U | 0.19 | 1.7 |
| Sodium | | 560 | J | 68 | 580 |
| Strontium | | 40 | Q | 0.042 | 1.7 |
| Thallium | | 1.4 | U | 0.75 | 3.5 |
| Vanadium | | 24 | | 0.11 | 2.3 |
| Zinc | | 68 | | 0.46 | 9.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1841 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1400 | Q D | 0.58 | 26 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS0912AA**

Lab Sample ID: 280-45026-10 | Date Sampled: 07/29/2013 1505
Client Matrix: Solid | % Moisture: 7.6 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 0141 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.59 | U | 0.37 | 2.0 |
| Arsenic | | 4.5 | | 0.65 | 2.5 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 1843 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Boron | | 1.5 | J | 0.96 | 9.8 |
| Cadmium | | 0.19 | J Q | 0.040 | 0.49 |
| Chromium | | 11 | Q | 0.057 | 3.4 |
| Cobalt | | 5.3 | | 0.098 | 0.98 |
| Copper | | 47 | Q | 0.21 | 4.9 |
| Lead | | 5.5 | | 0.27 | 0.89 |
| Magnesium | | 3200 | | 3.6 | 30 |
| Molybdenum | | 0.34 | J | 0.26 | 2.5 |
| Nickel | | 13 | | 0.12 | 3.9 |
| Selenium | | 1.2 | U | 0.85 | 3.0 |
| Silver | | 0.20 | U | 0.16 | 1.5 |
| Thallium | | 1.2 | U | 0.64 | 3.0 |
| Vanadium | | 17 | | 0.093 | 2.0 |
| Zinc | | 45 | | 0.39 | 7.9 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.10 g |
| Analysis Date: | 08/15/2013 1846 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 10000 | Q D | 7.6 | 250 |
| Barium | | 42 | D | 0.37 | 9.8 |
| Beryllium | | 0.42 | J D | 0.16 | 2.5 |
| Calcium | | 5200 | D | 69 | 490 |
| Iron | | 25000 | D | 19 | 390 |
| Manganese | | 1300 | Q D | 0.49 | 22 |
| Potassium | | 860 | J D | 200 | 1500 |
| Sodium | | 490 | U | 290 | 2500 |
| Strontium | | 10 | Q D | 0.18 | 7.4 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1104AA**

Lab Sample ID: 280-45026-14 | Date Sampled: 07/29/2013 1345
Client Matrix: Solid | % Moisture: 8.0 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 0144 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.55 | U | 0.35 | 1.8 |
| Arsenic | | 3.5 | | 0.60 | 2.3 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.19 g |
| Analysis Date: | 08/15/2013 1848 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 6900 | Q | 1.4 | 46 |
| Barium | | 23 | | 0.069 | 1.8 |
| Beryllium | | 0.34 | J | 0.030 | 0.46 |
| Boron | | 1.8 | J | 0.89 | 9.1 |
| Cadmium | | 0.22 | J Q | 0.037 | 0.46 |
| Calcium | | 1800 | | 13 | 91 |
| Chromium | | 9.5 | Q | 0.053 | 3.2 |
| Cobalt | | 5.3 | | 0.091 | 0.91 |
| Copper | | 29 | Q | 0.20 | 4.6 |
| Iron | | 16000 | | 3.5 | 73 |
| Lead | | 8.7 | | 0.25 | 0.82 |
| Magnesium | | 2800 | | 3.4 | 27 |
| Manganese | | 510 | Q | 0.091 | 4.1 |
| Molybdenum | | 0.40 | J | 0.24 | 2.3 |
| Nickel | | 13 | | 0.11 | 3.7 |
| Potassium | | 830 | | 37 | 270 |
| Selenium | | 1.1 | U | 0.79 | 2.7 |
| Silver | | 0.18 | U | 0.15 | 1.4 |
| Sodium | | 70 | J | 54 | 460 |
| Strontium | | 5.6 | Q | 0.033 | 1.4 |
| Thallium | | 1.1 | U | 0.59 | 2.7 |
| Vanadium | | 14 | | 0.086 | 1.8 |
| Zinc | | 46 | | 0.36 | 7.3 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1108AA**

Lab Sample ID: 280-45026-15 | Date Sampled: 07/29/2013 1347
Client Matrix: Solid | % Moisture: 14.8 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 0146 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.65 | U | 0.41 | 2.2 |
| Arsenic | | 5.4 | | 0.72 | 2.7 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.08 g |
| Analysis Date: | 08/15/2013 1850 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 9100 | Q | 1.7 | 54 |
| Barium | | 47 | | 0.083 | 2.2 |
| Beryllium | | 0.47 | J | 0.036 | 0.54 |
| Boron | | 2.9 | J | 1.1 | 11 |
| Cadmium | | 0.44 | J Q | 0.045 | 0.54 |
| Calcium | | 8400 | | 15 | 110 |
| Chromium | | 17 | Q | 0.063 | 3.8 |
| Cobalt | | 7.6 | | 0.11 | 1.1 |
| Copper | | 63 | Q | 0.24 | 5.4 |
| Iron | | 20000 | | 4.1 | 87 |
| Lead | | 18 | | 0.29 | 0.98 |
| Magnesium | | 4000 | | 4.0 | 33 |
| Manganese | | 620 | Q | 0.11 | 4.9 |
| Molybdenum | | 0.91 | J | 0.28 | 2.7 |
| Nickel | | 18 | | 0.13 | 4.3 |
| Potassium | | 1100 | | 45 | 330 |
| Selenium | | 1.3 | U | 0.93 | 3.3 |
| Silver | | 0.22 | U | 0.17 | 1.6 |
| Sodium | | 110 | U | 64 | 540 |
| Strontium | | 32 | Q | 0.039 | 1.6 |
| Thallium | | 1.3 | U | 0.71 | 3.3 |
| Vanadium | | 16 | | 0.10 | 2.2 |
| Zinc | | 67 | | 0.43 | 8.7 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1112AA**

Lab Sample ID: 280-45026-16 | Date Sampled: 07/29/2013 1359
Client Matrix: Solid | % Moisture: 11.9 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 0148 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.67 | U | 0.43 | 2.2 |
| Arsenic | | 5.3 | | 0.74 | 2.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1853 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 8700 | Q | 1.7 | 56 |
| Barium | | 43 | | 0.085 | 2.2 |
| Beryllium | | 0.38 | J | 0.037 | 0.56 |
| Boron | | 2.1 | J | 1.1 | 11 |
| Cadmium | | 0.20 | J Q | 0.046 | 0.56 |
| Calcium | | 2500 | | 16 | 110 |
| Chromium | | 14 | Q | 0.065 | 3.9 |
| Cobalt | | 7.5 | | 0.11 | 1.1 |
| Copper | | 62 | Q | 0.24 | 5.6 |
| Iron | | 22000 | | 4.3 | 90 |
| Lead | | 5.8 | | 0.30 | 1.0 |
| Magnesium | | 3900 | | 4.2 | 34 |
| Molybdenum | | 0.60 | J | 0.29 | 2.8 |
| Nickel | | 15 | | 0.14 | 4.5 |
| Potassium | | 930 | | 46 | 340 |
| Selenium | | 1.3 | U | 0.97 | 3.4 |
| Silver | | 0.22 | U | 0.18 | 1.7 |
| Sodium | | 110 | U | 66 | 560 |
| Strontium | | 7.6 | Q | 0.040 | 1.7 |
| Thallium | | 1.3 | U | 0.73 | 3.4 |
| Vanadium | | 16 | | 0.11 | 2.2 |
| Zinc | | 86 | | 0.45 | 9.0 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.01 g |
| Analysis Date: | 08/15/2013 1855 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1500 | Q D | 0.56 | 25 |

Client: FPM Remediations Inc | Job Number: 280-45026-1

**Client Sample ID:** **B255SCS1116AA**

Lab Sample ID: 280-45026-17 | Date Sampled: 07/29/2013 1430
Client Matrix: Solid | % Moisture: 11.4 | Date Received: 08/01/2013 0930

**6010C Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 0150 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Antimony | | 0.58 | U | 0.37 | 1.9 |
| Arsenic | | 4.8 | | 0.64 | 2.4 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 1857 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Aluminum | | 8300 | Q | 1.5 | 49 |
| Barium | | 39 | | 0.074 | 1.9 |
| Beryllium | | 0.36 | J | 0.032 | 0.49 |
| Boron | | 1.9 | J | 0.95 | 9.7 |
| Cadmium | | 0.21 | J Q | 0.040 | 0.49 |
| Calcium | | 6500 | | 14 | 97 |
| Chromium | | 24 | Q | 0.056 | 3.4 |
| Cobalt | | 6.7 | | 0.097 | 0.97 |
| Copper | | 35 | Q | 0.21 | 4.9 |
| Iron | | 20000 | | 3.7 | 78 |
| Lead | | 7.1 | | 0.26 | 0.88 |
| Magnesium | | 4000 | | 3.6 | 29 |
| Molybdenum | | 0.76 | J | 0.25 | 2.4 |
| Nickel | | 15 | | 0.12 | 3.9 |
| Potassium | | 880 | | 40 | 290 |
| Selenium | | 1.2 | U | 0.84 | 2.9 |
| Silver | | 0.19 | U | 0.16 | 1.5 |
| Sodium | | 97 | U | 57 | 490 |
| Strontium | | 15 | Q | 0.035 | 1.5 |
| Thallium | | 1.2 | U | 0.63 | 2.9 |
| Vanadium | | 16 | | 0.092 | 1.9 |
| Zinc | | 50 | | 0.39 | 7.8 |

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6010C | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Prep Method: | 3050B | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 5.0 | | | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 1900 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | DL | LOQ |
|---|---|---|---|---|---|
| Manganese | | 1300 | Q D | 0.49 | 22 |

**General Chemistry**

**Client Sample ID:** **B255SCS0704AA**

Lab Sample ID: 280-45026-1 Date Sampled: 07/29/2013 1550

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0704AC**

Lab Sample ID: 280-45026-2 Date Sampled: 07/29/2013 1550

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0708AA**

Lab Sample ID: 280-45026-3 Date Sampled: 07/29/2013 1554
Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 14 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 86 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0712AA**

Lab Sample ID: 280-45026-4 Date Sampled: 07/29/2013 1600

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 88 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0804AA**

Lab Sample ID: 280-45026-5 Date Sampled: 07/29/2013 1530
Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 19 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 81 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0808AA**

Lab Sample ID: 280-45026-6 Date Sampled: 07/29/2013 1535

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 10 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-187361 | Analysis Date: 08/15/2013 1122 | | | | | | DryWt Corrected: N |
| Percent Solids | 90 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-187361 | Analysis Date: 08/15/2013 1122 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0812AA**

Lab Sample ID: 280-45026-7 Date Sampled: 07/29/2013 1540

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 11 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 89 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0904AA**

Lab Sample ID: 280-45026-8 Date Sampled: 07/29/2013 1450

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 16 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 84 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0908AA**

Lab Sample ID: 280-45026-9 Date Sampled: 07/29/2013 1500

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS0912AA**

Lab Sample ID: 280-45026-10 Date Sampled: 07/29/2013 1505

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 7.6 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1004AA**

Lab Sample ID: 280-45026-11 Date Sampled: 07/29/2013 1510

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1008AA**

Lab Sample ID: 280-45026-12 Date Sampled: 07/29/2013 1515

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 88 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1012AA**

Lab Sample ID: 280-45026-13 Date Sampled: 07/29/2013 1520

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 13 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 87 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1104AA**

Lab Sample ID: 280-45026-14 Date Sampled: 07/29/2013 1345

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.0 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 92 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1108AA**

Lab Sample ID: 280-45026-15 Date Sampled: 07/29/2013 1347

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 85 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1112AA**

Lab Sample ID: 280-45026-16 Date Sampled: 07/29/2013 1359

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 88 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **B255SCS1116AA**

Lab Sample ID: 280-45026-17 Date Sampled: 07/29/2013 1430

Client Matrix: Solid Date Received: 08/01/2013 0930

| Analyte | Result | Qual | Units | DL | LOQ | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 11 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |
| Percent Solids | 89 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 280-186980 | Analysis Date: 08/13/2013 1103 | | | | | | DryWt Corrected: N |

Client: FPM Remediations Inc

Job Number: 280-45026-1

## Surrogate Recovery Report

**8270D/DoD Semivolatile Organic Compounds (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample ID | 2FP %Rec | PHL %Rec | NBZ %Rec | FBP %Rec | TBP %Rec | TPH %Rec |
|---|---|---|---|---|---|---|---|
| 280-45026-8 | B255SCS0904AA | 78D | 84D | 78D | 85D | 80D | 89D |
| 280-45026-9 | B255SCS0908AA | 80 | 87 | 78 | 86 | 90 | 97 |
| 280-45026-10 | B255SCS0912AA | 82 | 87 | 82 | 86 | 85 | 93 |
| 280-45026-11 | B255SCS1004AA | 79 | 81 | 78 | 80 | 84 | 91 |
| 280-45026-12 | B255SCS1008AA | 81 | 86 | 79 | 86 | 92 | 96 |
| 280-45026-13 | B255SCS1012AA | 80 | 85 | 78 | 84 | 87 | 93 |
| MB 280-186667/1-A | | 85 | 86 | 84 | 84 | 81 | 94 |
| LCS 280-186667/2-A | | 81 | 85 | 80 | 84 | 93 | 91 |

| Surrogate | Acceptance Limits |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 35-105 |
| PHL = Phenol-d5 (Surr) | 40-100 |
| NBZ = Nitrobenzene-d5 (Surr) | 35-100 |
| FBP = 2-Fluorobiphenyl | 45-105 |
| TBP = 2,4,6-Tribromophenol (Surr) | 35-125 |
| TPH = Terphenyl-d14 (Surr) | 30-125 |

**Method Blank - Batch: 280-186667**

**Method: 8270D/DoD**
**Preparation: 3550C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-186667/1-A | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Client Matrix: | Solid | Prep Batch: | 280-186667 | Lab File ID: | Y5761.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 30.3 g |
| Analysis Date: | 08/14/2013 1355 | Units: | ug/Kg | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| 1,1'-Biphenyl | 170 | U | 50 | 330 |
| 1,2,4,5-Tetrachlorobenzene | 66 | U | 49 | 330 |
| 1,2,4-Trichlorobenzene | 33 | U | 28 | 330 |
| 1,2-Dichlorobenzene | 33 | U | 22 | 330 |
| 1,2-Diphenylhydrazine | 33 | U | 22 | 330 |
| 1,3-Dichlorobenzene | 33 | U | 12 | 330 |
| 1,4-Dichlorobenzene | 33 | U | 13 | 330 |
| 2,2'-oxybis[1-chloropropane] | 33 | U | 23 | 330 |
| 2,3,4,6-Tetrachlorophenol | 170 | U | 140 | 1600 |
| 2,4,5-Trichlorophenol | 130 | U | 9.9 | 330 |
| 2,4,6-Trichlorophenol | 65 | U | 9.9 | 330 |
| 2,4-Dichlorophenol | 65 | U | 9.9 | 330 |
| 2,4-Dimethylphenol | 130 | U | 65 | 330 |
| 2,4-Dinitrophenol | 660 | U | 330 | 1600 |
| 2,4-Dinitrotoluene | 130 | U | 65 | 330 |
| 2,6-Dichlorophenol | 130 | U | 68 | 330 |
| 2,6-Dinitrotoluene | 65 | U | 28 | 330 |
| 2-Chloronaphthalene | 33 | U | 9.9 | 330 |
| 2-Chlorophenol | 33 | U | 21 | 330 |
| 2-Methylnaphthalene | 33 | U | 19 | 330 |
| 2-Methylphenol | 33 | U | 13 | 330 |
| 2-Nitroaniline | 65 | U | 50 | 1600 |
| 2-Nitrophenol | 65 | U | 9.9 | 330 |
| 3 & 4 Methylphenol | 65 | U | 33 | 330 |
| 3,3'-Dichlorobenzidine | 330 | U | 89 | 1600 |
| 3-Nitroaniline | 130 | U | 72 | 1600 |
| 4,6-Dinitro-2-methylphenol | 650 | U | 330 | 1600 |
| 4-Bromophenyl phenyl ether | 33 | U | 19 | 330 |
| 4-Chloro-3-methylphenol | 130 | U | 65 | 330 |
| 4-Chloroaniline | 130 | U | 81 | 330 |
| 4-Chlorophenyl phenyl ether | 65 | U | 21 | 330 |
| 4-Nitroaniline | 130 | U | 72 | 1600 |
| 4-Nitrophenol | 330 | U | 96 | 1600 |
| Acenaphthene | 17 | U | 10 | 330 |
| Acenaphthylene | 33 | U | 17 | 330 |
| Acetophenone | 33 | U | 20 | 330 |
| Anthracene | 33 | U | 17 | 330 |
| Atrazine | 130 | U | 37 | 330 |
| Benzaldehyde | 66 | U | 39 | 330 |
| Benzidine | 3900 | U | 980 | 4000 |
| Benzo[a]anthracene | 33 | U | 20 | 330 |
| Benzo[a]pyrene | 33 | U | 20 | 330 |
| Benzo[b]fluoranthene | 33 | U | 26 | 330 |
| Benzo[g,h,i]perylene | 33 | U | 16 | 330 |
| Benzo[k]fluoranthene | 65 | U | 40 | 330 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Method Blank - Batch: 280-186667**

**Method: 8270D/DoD**
**Preparation: 3550C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-186667/1-A | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Client Matrix: | Solid | Prep Batch: | 280-186667 | Lab File ID: | Y5761.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 30.3 g |
| Analysis Date: | 08/14/2013 1355 | Units: | ug/Kg | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Benzoic acid | 650 | U | 330 | 1600 |
| Benzyl alcohol | 33 | U | 9.9 | 330 |
| Bis(2-chloroethoxy)methane | 65 | U | 23 | 330 |
| Bis(2-chloroethyl)ether | 33 | U | 16 | 330 |
| Bis(2-ethylhexyl) phthalate | 65 | U | 46 | 330 |
| Butyl benzyl phthalate | 65 | U | 43 | 330 |
| Caprolactam | 330 | U | 100 | 1600 |
| Carbazole | 66 | U | 36 | 330 |
| Chrysene | 33 | U | 27 | 330 |
| Dibenz(a,h)anthracene | 33 | U | 19 | 330 |
| Dibenzofuran | 33 | U | 20 | 330 |
| Diethyl phthalate | 33 | U | 26 | 650 |
| Dimethyl phthalate | 127 | J | 23 | 330 |
| Di-n-butyl phthalate | 33 | U | 29 | 330 |
| Di-n-octyl phthalate | 65 | U | 14 | 330 |
| Fluoranthene | 65 | U | 36 | 330 |
| Fluorene | 33 | U | 18 | 330 |
| Hexachlorobenzene | 65 | U | 29 | 330 |
| Hexachlorobutadiene | 65 | U | 9.9 | 330 |
| Hexachlorocyclopentadiene | 65 | U | 50 | 1700 |
| Hexachloroethane | 33 | U | 21 | 330 |
| Indeno[1,2,3-cd]pyrene | 33 | U | 22 | 330 |
| Isophorone | 33 | U | 17 | 330 |
| Naphthalene | 65 | U | 31 | 330 |
| Nitrobenzene | 33 | U | 22 | 330 |
| N-Nitrosodimethylamine | 65 | U | 37 | 510 |
| N-Nitrosodi-n-propylamine | 65 | U | 31 | 330 |
| N-Nitrosodiphenylamine | 33 | U | 21 | 330 |
| N-Nitrosopyrrolidine | 130 | U | 63 | 330 |
| Pentachlorophenol | 660 | U | 330 | 1600 |
| Phenanthrene | 33 | U | 17 | 330 |
| Phenol | 33 | U | 18 | 330 |
| Pyrene | 33 | U | 12 | 400 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 81 | 35 - 125 |
| 2-Fluorobiphenyl | 84 | 45 - 105 |
| 2-Fluorophenol (Surr) | 85 | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 84 | 35 - 100 |
| Phenol-d5 (Surr) | 86 | 40 - 100 |
| Terphenyl-d14 (Surr) | 94 | 30 - 125 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Lab Control Sample - Batch: 280-186667**

**Method: 8270D/DoD**
**Preparation: 3550C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-186667/2-A | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Client Matrix: | Solid | Prep Batch: | 280-186667 | Lab File ID: | Y5762.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 30.7 g |
| Analysis Date: | 08/14/2013 1422 | Units: | ug/Kg | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 2610 | 2080 | 80 | 45 - 110 | |
| 1,2-Dichlorobenzene | 2610 | 2080 | 80 | 45 - 95 | |
| 1,2-Diphenylhydrazine | 2630 | 2370 | 90 | 54 - 120 | |
| 1,3-Dichlorobenzene | 2610 | 2030 | 78 | 40 - 100 | |
| 1,4-Dichlorobenzene | 2610 | 2060 | 79 | 35 - 105 | |
| 2,2'-oxybis[1-chloropropane] | 2610 | 2030 | 78 | 20 - 115 | |
| 2,4,5-Trichlorophenol | 2610 | 2400 | 92 | 50 - 110 | |
| 2,4,6-Trichlorophenol | 2610 | 2430 | 93 | 45 - 110 | |
| 2,4-Dichlorophenol | 2610 | 2280 | 87 | 45 - 110 | |
| 2,4-Dimethylphenol | 2610 | 2270 | 87 | 30 - 105 | |
| 2,4-Dinitrophenol | 5210 | 4470 | 86 | 15 - 130 | |
| 2,4-Dinitrotoluene | 2610 | 2490 | 95 | 50 - 115 | |
| 2,6-Dinitrotoluene | 2610 | 2420 | 93 | 50 - 110 | |
| 2-Chloronaphthalene | 2610 | 2220 | 85 | 45 - 105 | |
| 2-Chlorophenol | 2610 | 2170 | 83 | 45 - 105 | |
| 2-Methylnaphthalene | 2610 | 2240 | 86 | 45 - 105 | |
| 2-Methylphenol | 2610 | 2220 | 85 | 40 - 105 | |
| 2-Nitroaniline | 2610 | 2390 | 92 | 45 - 120 | |
| 2-Nitrophenol | 2610 | 2240 | 86 | 40 - 110 | |
| 3 & 4 Methylphenol | 2610 | 2310 | 89 | 40 - 105 | |
| 3,3'-Dichlorobenzidine | 2610 | 1360 | 52 | 10 - 130 | J |
| 3-Nitroaniline | 2610 | 1460 | 56 | 25 - 110 | J |
| 4,6-Dinitro-2-methylphenol | 5210 | 4510 | 87 | 30 - 135 | |
| 4-Bromophenyl phenyl ether | 2610 | 2330 | 89 | 45 - 115 | |
| 4-Chloro-3-methylphenol | 2610 | 2400 | 92 | 45 - 115 | |
| 4-Chloroaniline | 2610 | 1230 | 47 | 10 - 95 | |
| 4-Chlorophenyl phenyl ether | 2610 | 2340 | 90 | 45 - 110 | |
| 4-Nitroaniline | 2610 | 2250 | 86 | 35 - 115 | |
| 4-Nitrophenol | 5210 | 4800 | 92 | 15 - 140 | |
| Acenaphthene | 2610 | 2310 | 89 | 45 - 110 | |
| Acenaphthylene | 2610 | 2290 | 88 | 45 - 105 | |
| Anthracene | 2610 | 2370 | 91 | 55 - 105 | |
| Benzo[a]anthracene | 2610 | 2410 | 92 | 50 - 110 | |
| Benzo[a]pyrene | 2610 | 2390 | 92 | 50 - 110 | |
| Benzo[b]fluoranthene | 2610 | 2590 | 99 | 45 - 115 | |
| Benzo[g,h,i]perylene | 2610 | 2450 | 94 | 40 - 125 | |
| Benzo[k]fluoranthene | 2610 | 2510 | 96 | 45 - 125 | |
| Benzoic acid | 2610 | 2430 | 93 | 10 - 110 | |
| Benzyl alcohol | 2610 | 2240 | 86 | 20 - 125 | |
| Bis(2-chloroethoxy)methane | 2610 | 2170 | 83 | 45 - 110 | |
| Bis(2-chloroethyl)ether | 2610 | 2260 | 87 | 40 - 105 | |
| Bis(2-ethylhexyl) phthalate | 2610 | 2740 | 105 | 45 - 125 | |
| Butyl benzyl phthalate | 2610 | 2570 | 99 | 50 - 125 | |
| Carbazole | 2610 | 2420 | 93 | 45 - 115 | |
| Chrysene | 2610 | 2390 | 92 | 55 - 110 | |
| Dibenz(a,h)anthracene | 2610 | 2620 | 100 | 40 - 125 | |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Lab Control Sample - Batch: 280-186667**

**Method: 8270D/DoD**
**Preparation: 3550C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-186667/2-A | Analysis Batch: | 280-187134 | Instrument ID: | SMS_Y |
| Client Matrix: | Solid | Prep Batch: | 280-186667 | Lab File ID: | Y5762.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 30.7 g |
| Analysis Date: | 08/14/2013 1422 | Units: | ug/Kg | Final Weight/Volume: | 1000 uL |
| Prep Date: | 08/09/2013 1955 | | | Injection Volume: | 0.5 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Dibenzofuran | 2610 | 2340 | 90 | 50 - 105 | |
| Diethyl phthalate | 2610 | 2390 | 92 | 50 - 115 | |
| Dimethyl phthalate | 2610 | 2450 | 94 | 50 - 110 | |
| Di-n-butyl phthalate | 2610 | 2460 | 94 | 55 - 110 | |
| Di-n-octyl phthalate | 2610 | 2600 | 100 | 40 - 130 | |
| Fluoranthene | 2610 | 2400 | 92 | 55 - 115 | |
| Fluorene | 2610 | 2380 | 91 | 50 - 110 | |
| Hexachlorobenzene | 2610 | 2300 | 88 | 45 - 120 | |
| Hexachlorobutadiene | 2610 | 2000 | 77 | 40 - 115 | |
| Hexachlorocyclopentadiene | 2610 | 1880 | 72 | 35 - 123 | |
| Hexachloroethane | 2610 | 2000 | 77 | 35 - 110 | |
| Indeno[1,2,3-cd]pyrene | 2610 | 2450 | 94 | 40 - 120 | M |
| Isophorone | 2610 | 2120 | 81 | 45 - 110 | |
| Naphthalene | 2610 | 2140 | 82 | 40 - 105 | |
| Nitrobenzene | 2610 | 2100 | 81 | 40 - 115 | |
| N-Nitrosodimethylamine | 2610 | 1940 | 75 | 20 - 115 | |
| N-Nitrosodi-n-propylamine | 2610 | 2210 | 85 | 40 - 115 | |
| N-Nitrosodiphenylamine | 2610 | 2230 | 86 | 50 - 115 | |
| Pentachlorophenol | 5210 | 4840 | 93 | 25 - 120 | |
| Phenanthrene | 2610 | 2410 | 92 | 50 - 110 | |
| Phenol | 2610 | 2250 | 86 | 40 - 100 | |
| Pyrene | 2610 | 2470 | 95 | 45 - 125 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 93 | 35 - 125 |
| 2-Fluorobiphenyl | 84 | 45 - 105 |
| 2-Fluorophenol (Surr) | 81 | 35 - 105 |
| Nitrobenzene-d5 (Surr) | 80 | 35 - 100 |
| Phenol-d5 (Surr) | 85 | 40 - 100 |
| Terphenyl-d14 (Surr) | 91 | 30 - 125 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Method Blank - Batch: 280-186959**

**Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-186959/1-A | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Client Matrix: | Solid | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 0036 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Antimony | 0.52 | U | 0.33 | 1.7 |
| Arsenic | 0.86 | U | 0.57 | 2.2 |

**Method Blank - Batch: 280-186959**

**Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 280-186959/1-A | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Client Matrix: | Solid | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.16 g |
| Analysis Date: | 08/15/2013 1735 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | DL | LOQ |
|---|---|---|---|---|
| Aluminum | 2.6 | U | 1.3 | 43 |
| Barium | 0.16 | U | 0.066 | 1.7 |
| Beryllium | 0.060 | U | 0.028 | 0.43 |
| Boron | 0.86 | U | 0.84 | 8.6 |
| Cadmium | 0.086 | U Q | 0.035 | 0.43 |
| Calcium | 17 | U | 12 | 86 |
| Chromium | 0.13 | U Q | 0.050 | 3.0 |
| Cobalt | 0.17 | U | 0.086 | 0.86 |
| Copper | 0.43 | U Q | 0.19 | 4.3 |
| Iron | 4.3 | U | 3.3 | 69 |
| Lead | 0.69 | U | 0.23 | 0.78 |
| Magnesium | 4.3 | U | 3.2 | 26 |
| Manganese | 0.13 | U Q | 0.086 | 3.9 |
| Molybdenum | 0.43 | U | 0.22 | 2.2 |
| Nickel | 0.17 | U | 0.11 | 3.4 |
| Potassium | 43 | U | 35 | 260 |
| Selenium | 1.0 | U | 0.74 | 2.6 |
| Silver | 0.17 | U | 0.14 | 1.3 |
| Sodium | 86 | U | 51 | 430 |
| Strontium | 0.069 | U Q | 0.031 | 1.3 |
| Thallium | 1.0 | U | 0.56 | 2.6 |
| Vanadium | 0.17 | U | 0.081 | 1.7 |
| Zinc | 0.69 | U | 0.34 | 6.9 |

**Lab Control Sample - Batch: 280-186959**

**Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-186959/2-A | Analysis Batch: | 280-187287 | Instrument ID: | MT_025 |
| Client Matrix: | Solid | Prep Batch: | 280-186959 | Lab File ID: | 25A5081413.asc |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 08/15/2013 0039 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Antimony | 47.2 | 45.8 | 97 | 80 - 120 | |
| Arsenic | 94.3 | 94.6 | 100 | 80 - 120 | |

**Lab Control Sample - Batch: 280-186959**

**Method: 6010C**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 280-186959/2-A | Analysis Batch: | 280-187483 | Instrument ID: | MT_025 |
| Client Matrix: | Solid | Prep Batch: | 280-186959 | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.06 g |
| Analysis Date: | 08/15/2013 1737 | Units: | mg/Kg | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/14/2013 1300 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Aluminum | 189 | 185 | 98 | 80 - 120 | |
| Barium | 189 | 193 | 102 | 80 - 120 | |
| Beryllium | 4.72 | 4.70 | 100 | 80 - 120 | |
| Boron | 94.3 | 101 | 107 | 80 - 120 | |
| Cadmium | 9.43 | 10.1 | 107 | 80 - 120 | Q |
| Calcium | 4720 | 4720 | 100 | 80 - 120 | |
| Chromium | 18.9 | 19.2 | 102 | 80 - 120 | Q |
| Cobalt | 47.2 | 46.8 | 99 | 80 - 120 | |
| Copper | 23.6 | 24.0 | 102 | 80 - 120 | Q |
| Iron | 94.3 | 97.4 | 103 | 80 - 120 | |
| Lead | 47.2 | 47.4 | 101 | 80 - 120 | |
| Magnesium | 4720 | 4550 | 97 | 80 - 120 | |
| Manganese | 47.2 | 46.0 | 97 | 80 - 120 | Q |
| Molybdenum | 94.3 | 93.6 | 99 | 80 - 120 | |
| Nickel | 47.2 | 47.0 | 100 | 80 - 120 | |
| Potassium | 4720 | 4790 | 102 | 80 - 120 | |
| Selenium | 189 | 187 | 99 | 80 - 120 | |
| Silver | 4.72 | 4.68 | 99 | 80 - 120 | |
| Sodium | 4720 | 4850 | 103 | 80 - 120 | |
| Strontium | 94.3 | 94.7 | 100 | 80 - 120 | Q |
| Thallium | 189 | 186 | 99 | 80 - 120 | |
| Vanadium | 47.2 | 47.7 | 101 | 80 - 120 | |
| Zinc | 47.2 | 45.9 | 97 | 80 - 120 | |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Duplicate - Batch: 280-186980**

**Method: Moisture**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-45026-1 | Analysis Batch: | 280-186980 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | |
| Analysis Date: | 08/13/2013 1103 | Units: | % | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---|---|---|---|---|---|
| Percent Moisture | 15 | 15 | 3 | 20 | |
| Percent Solids | 85 | 85 | 0.5 | 20 | |

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Duplicate - Batch: 280-187361**

**Method: Moisture**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 280-45026-6 | Analysis Batch: | 280-187361 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | |
| Analysis Date: | 08/15/2013 1122 | Units: | % | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---|---|---|---|---|---|
| Percent Moisture | 10 | 9.9 | 5 | 20 | |
| Percent Solids | 90 | 90 | 0.5 | 20 | |

## DATA REPORTING QUALIFIERS

Client: FPM Remediations Inc Job Number: 280-45026-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS Semi VOA | | |
| | J | Estimated: The analyte was positively identified; the quantitation is an estimation |
| | M | Manual integrated compound. |
| | D | Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples. |
| | U | Undetected at the Limit of Detection. |
| Metals | | |
| | J | Estimated: The analyte was positively identified; the quantitation is an estimation |
| | Q | One or more quality control criteria failed. |
| | D | The reported value is from a dilution. |
| | U | Undetected at the Limit of Detection. |

Client: FPM Remediations Inc

Job Number: 280-45026-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Prep Batch: 280-186667** | | | | | |
| LCS 280-186667/2-A | Lab Control Sample | T | Solid | 3550C | |
| MB 280-186667/1-A | Method Blank | T | Solid | 3550C | |
| 280-45026-8 | B255SCS0904AA | T | Solid | 3550C | |
| 280-45026-9 | B255SCS0908AA | T | Solid | 3550C | |
| 280-45026-10 | B255SCS0912AA | T | Solid | 3550C | |
| 280-45026-11 | B255SCS1004AA | T | Solid | 3550C | |
| 280-45026-12 | B255SCS1008AA | T | Solid | 3550C | |
| 280-45026-13 | B255SCS1012AA | T | Solid | 3550C | |
| **Analysis Batch:280-187134** | | | | | |
| LCS 280-186667/2-A | Lab Control Sample | T | Solid | 8270D/DoD | 280-186667 |
| MB 280-186667/1-A | Method Blank | T | Solid | 8270D/DoD | 280-186667 |
| 280-45026-8 | B255SCS0904AA | T | Solid | 8270D/DoD | 280-186667 |
| 280-45026-9 | B255SCS0908AA | T | Solid | 8270D/DoD | 280-186667 |
| 280-45026-10 | B255SCS0912AA | T | Solid | 8270D/DoD | 280-186667 |
| 280-45026-11 | B255SCS1004AA | T | Solid | 8270D/DoD | 280-186667 |
| 280-45026-12 | B255SCS1008AA | T | Solid | 8270D/DoD | 280-186667 |
| 280-45026-13 | B255SCS1012AA | T | Solid | 8270D/DoD | 280-186667 |

**Report Basis**

T = Total

Client: FPM Remediations Inc

Job Number: 280-45026-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 280-186959** | | | | | |
| LCS 280-186959/2-A | Lab Control Sample | T | Solid | 3050B | |
| MB 280-186959/1-A | Method Blank | T | Solid | 3050B | |
| 280-45026-1 | B255SCS0704AA | T | Solid | 3050B | |
| 280-45026-2 | B255SCS0704AC | T | Solid | 3050B | |
| 280-45026-3 | B255SCS0708AA | T | Solid | 3050B | |
| 280-45026-4 | B255SCS0712AA | T | Solid | 3050B | |
| 280-45026-5 | B255SCS0804AA | T | Solid | 3050B | |
| 280-45026-6 | B255SCS0808AA | T | Solid | 3050B | |
| 280-45026-7 | B255SCS0812AA | T | Solid | 3050B | |
| 280-45026-8 | B255SCS0904AA | T | Solid | 3050B | |
| 280-45026-9 | B255SCS0908AA | T | Solid | 3050B | |
| 280-45026-10 | B255SCS0912AA | T | Solid | 3050B | |
| 280-45026-14 | B255SCS1104AA | T | Solid | 3050B | |
| 280-45026-15 | B255SCS1108AA | T | Solid | 3050B | |
| 280-45026-16 | B255SCS1112AA | T | Solid | 3050B | |
| 280-45026-17 | B255SCS1116AA | T | Solid | 3050B | |
| **Analysis Batch:280-187287** | | | | | |
| LCS 280-186959/2-A | Lab Control Sample | T | Solid | 6010C | 280-186959 |
| MB 280-186959/1-A | Method Blank | T | Solid | 6010C | 280-186959 |
| 280-45026-1 | B255SCS0704AA | T | Solid | 6010C | 280-186959 |
| 280-45026-2 | B255SCS0704AC | T | Solid | 6010C | 280-186959 |
| 280-45026-3 | B255SCS0708AA | T | Solid | 6010C | 280-186959 |
| 280-45026-4 | B255SCS0712AA | T | Solid | 6010C | 280-186959 |
| 280-45026-5 | B255SCS0804AA | T | Solid | 6010C | 280-186959 |
| 280-45026-6 | B255SCS0808AA | T | Solid | 6010C | 280-186959 |
| 280-45026-7 | B255SCS0812AA | T | Solid | 6010C | 280-186959 |
| 280-45026-8 | B255SCS0904AA | T | Solid | 6010C | 280-186959 |
| 280-45026-9 | B255SCS0908AA | T | Solid | 6010C | 280-186959 |
| 280-45026-10 | B255SCS0912AA | T | Solid | 6010C | 280-186959 |
| 280-45026-14 | B255SCS1104AA | T | Solid | 6010C | 280-186959 |
| 280-45026-15 | B255SCS1108AA | T | Solid | 6010C | 280-186959 |
| 280-45026-16 | B255SCS1112AA | T | Solid | 6010C | 280-186959 |
| 280-45026-17 | B255SCS1116AA | T | Solid | 6010C | 280-186959 |

Client: FPM Remediations Inc

Job Number: 280-45026-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:280-187483** | | | | | |
| LCS 280-186959/2-A | Lab Control Sample | T | Solid | 6010C | 280-186959 |
| MB 280-186959/1-A | Method Blank | T | Solid | 6010C | 280-186959 |
| 280-45026-1 | B255SCS0704AA | T | Solid | 6010C | 280-186959 |
| 280-45026-2 | B255SCS0704AC | T | Solid | 6010C | 280-186959 |
| 280-45026-3 | B255SCS0708AA | T | Solid | 6010C | 280-186959 |
| 280-45026-4 | B255SCS0712AA | T | Solid | 6010C | 280-186959 |
| 280-45026-5 | B255SCS0804AA | T | Solid | 6010C | 280-186959 |
| 280-45026-6 | B255SCS0808AA | T | Solid | 6010C | 280-186959 |
| 280-45026-7 | B255SCS0812AA | T | Solid | 6010C | 280-186959 |
| 280-45026-8 | B255SCS0904AA | T | Solid | 6010C | 280-186959 |
| 280-45026-9 | B255SCS0908AA | T | Solid | 6010C | 280-186959 |
| 280-45026-10 | B255SCS0912AA | T | Solid | 6010C | 280-186959 |
| 280-45026-14 | B255SCS1104AA | T | Solid | 6010C | 280-186959 |
| 280-45026-15 | B255SCS1108AA | T | Solid | 6010C | 280-186959 |
| 280-45026-16 | B255SCS1112AA | T | Solid | 6010C | 280-186959 |
| 280-45026-17 | B255SCS1116AA | T | Solid | 6010C | 280-186959 |

**Report Basis**
T = Total

Client: FPM Remediations Inc

Job Number: 280-45026-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:280-186980** | | | | | |
| 280-45026-1 | B255SCS0704AA | T | Solid | Moisture | |
| 280-45026-1DU | Duplicate | T | Solid | Moisture | |
| 280-45026-2 | B255SCS0704AC | T | Solid | Moisture | |
| 280-45026-3 | B255SCS0708AA | T | Solid | Moisture | |
| 280-45026-4 | B255SCS0712AA | T | Solid | Moisture | |
| 280-45026-5 | B255SCS0804AA | T | Solid | Moisture | |
| 280-45026-7 | B255SCS0812AA | T | Solid | Moisture | |
| 280-45026-8 | B255SCS0904AA | T | Solid | Moisture | |
| 280-45026-9 | B255SCS0908AA | T | Solid | Moisture | |
| 280-45026-10 | B255SCS0912AA | T | Solid | Moisture | |
| 280-45026-11 | B255SCS1004AA | T | Solid | Moisture | |
| 280-45026-12 | B255SCS1008AA | T | Solid | Moisture | |
| 280-45026-13 | B255SCS1012AA | T | Solid | Moisture | |
| 280-45026-14 | B255SCS1104AA | T | Solid | Moisture | |
| 280-45026-15 | B255SCS1108AA | T | Solid | Moisture | |
| 280-45026-16 | B255SCS1112AA | T | Solid | Moisture | |
| 280-45026-17 | B255SCS1116AA | T | Solid | Moisture | |
| **Analysis Batch:280-187361** | | | | | |
| 280-45026-6 | B255SCS0808AA | T | Solid | Moisture | |
| 280-45026-6DU | Duplicate | T | Solid | Moisture | |

**Report Basis**

T = Total

Client: FPM Remediations Inc

Job Number: 280-45026-1

## Laboratory Chronicle

**Lab ID:** 280-45026-1 **Client ID:** B255SCS0704AA

Sample Date/Time: 07/29/2013 15:50 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-1-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-1-B | | 280-187287 | 280-186959 | 08/15/2013 01:11 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-1-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-1-B | | 280-187483 | 280-186959 | 08/15/2013 18:09 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-1 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-1 DU **Client ID:** B255SCS0704AA

Sample Date/Time: 07/29/2013 15:50 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| A:Moisture | 280-45026-A-1 DU | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-2 **Client ID:** B255SCS0704AC

Sample Date/Time: 07/29/2013 15:50 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-2-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-2-B | | 280-187287 | 280-186959 | 08/15/2013 01:14 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-2-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-2-B | | 280-187483 | 280-186959 | 08/15/2013 18:11 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-2 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-3 **Client ID:** B255SCS0708AA

Sample Date/Time: 07/29/2013 15:54 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-3-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-3-B | | 280-187287 | 280-186959 | 08/15/2013 01:16 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-3-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-3-B | | 280-187483 | 280-186959 | 08/15/2013 18:14 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-3-B ^5 | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 5 | TAL DEN | JAM |
| A:6010C | 280-45026-A-3-B ^5 | | 280-187483 | 280-186959 | 08/15/2013 18:16 | 5 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-3 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

Client: FPM Remediations Inc Job Number: 280-45026-1

## Laboratory Chronicle

**Lab ID: 280-45026-4** **Client ID: B255SCS0712AA**

Sample Date/Time: 07/29/2013 16:00 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-4-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-4-B | | 280-187287 | 280-186959 | 08/15/2013 01:18 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-4-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-4-B | | 280-187483 | 280-186959 | 08/15/2013 18:18 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-4 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID: 280-45026-5** **Client ID: B255SCS0804AA**

Sample Date/Time: 07/29/2013 15:30 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-5-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-5-B | | 280-187287 | 280-186959 | 08/15/2013 01:21 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-5-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-5-B | | 280-187483 | 280-186959 | 08/15/2013 18:21 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-5 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID: 280-45026-6** **Client ID: B255SCS0808AA**

Sample Date/Time: 07/29/2013 15:35 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-6-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-6-B | | 280-187287 | 280-186959 | 08/15/2013 01:23 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-6-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-6-B | | 280-187483 | 280-186959 | 08/15/2013 18:23 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-6 | | 280-187361 | | 08/15/2013 11:22 | 1 | TAL DEN | IBM |

**Lab ID: 280-45026-6 DU** **Client ID: B255SCS0808AA**

Sample Date/Time: 07/29/2013 15:35 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| A:Moisture | 280-45026-A-6 DU | | 280-187361 | | 08/15/2013 11:22 | 1 | TAL DEN | IBM |

Client: FPM Remediations Inc

Job Number: 280-45026-1

## Laboratory Chronicle

**Lab ID:** 280-45026-7 **Client ID:** B255SCS0812AA

Sample Date/Time: 07/29/2013 15:40 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-7-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-7-B | | 280-187287 | 280-186959 | 08/15/2013 01:25 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-7-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-7-B | | 280-187483 | 280-186959 | 08/15/2013 18:25 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-7 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-8 **Client ID:** B255SCS0904AA

Sample Date/Time: 07/29/2013 14:50 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | 280-45026-B-8-A | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 4 | TAL DEN | EJP |
| A:8270D/DoD | 280-45026-B-8-A | | 280-187134 | 280-186667 | 08/14/2013 19:39 | 4 | TAL DEN | MGH |
| P:3050B | 280-45026-A-8-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-8-B | | 280-187287 | 280-186959 | 08/15/2013 01:37 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-8-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-8-B | | 280-187483 | 280-186959 | 08/15/2013 18:28 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-8 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-9 **Client ID:** B255SCS0908AA

Sample Date/Time: 07/29/2013 15:00 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | 280-45026-A-9-B | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 1 | TAL DEN | EJP |
| A:8270D/DoD | 280-45026-A-9-B | | 280-187134 | 280-186667 | 08/14/2013 20:06 | 1 | TAL DEN | MGH |
| P:3050B | 280-45026-A-9-C | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-9-C | | 280-187287 | 280-186959 | 08/15/2013 01:39 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-9-C | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-9-C | | 280-187483 | 280-186959 | 08/15/2013 18:39 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-9-C ^5 | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 5 | TAL DEN | JAM |
| A:6010C | 280-45026-A-9-C ^5 | | 280-187483 | 280-186959 | 08/15/2013 18:41 | 5 | TAL DEN | JKH |
| A:Moisture | 280-45026-B-9 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

Client: FPM Remediations Inc

Job Number: 280-45026-1

## Laboratory Chronicle

**Lab ID:** 280-45026-10 **Client ID:** B255SCS0912AA

Sample Date/Time: 07/29/2013 15:05 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | 280-45026-A-10-B | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 1 | TAL DEN | EJP |
| A:8270D/DoD | 280-45026-A-10-B | | 280-187134 | 280-186667 | 08/14/2013 20:32 | 1 | TAL DEN | MGH |
| P:3050B | 280-45026-A-10-C | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-10-C | | 280-187287 | 280-186959 | 08/15/2013 01:41 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-10-C | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-10-C | | 280-187483 | 280-186959 | 08/15/2013 18:43 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-10-C ^5 | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 5 | TAL DEN | JAM |
| A:6010C | 280-45026-A-10-C ^5 | | 280-187483 | 280-186959 | 08/15/2013 18:46 | 5 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-10 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-11 **Client ID:** B255SCS1004AA

Sample Date/Time: 07/29/2013 15:10 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | 280-45026-A-11-A | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 1 | TAL DEN | EJP |
| A:8270D/DoD | 280-45026-A-11-A | | 280-187134 | 280-186667 | 08/14/2013 20:59 | 1 | TAL DEN | MGH |
| A:Moisture | 280-45026-A-11 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-12 **Client ID:** B255SCS1008AA

Sample Date/Time: 07/29/2013 15:15 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | 280-45026-A-12-A | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 1 | TAL DEN | EJP |
| A:8270D/DoD | 280-45026-A-12-A | | 280-187134 | 280-186667 | 08/14/2013 21:25 | 1 | TAL DEN | MGH |
| A:Moisture | 280-45026-A-12 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID:** 280-45026-13 **Client ID:** B255SCS1012AA

Sample Date/Time: 07/29/2013 15:20 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | 280-45026-A-13-A | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 1 | TAL DEN | EJP |
| A:8270D/DoD | 280-45026-A-13-A | | 280-187134 | 280-186667 | 08/14/2013 21:52 | 1 | TAL DEN | MGH |
| A:Moisture | 280-45026-A-13 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

Client: FPM Remediations Inc Job Number: 280-45026-1

## Laboratory Chronicle

**Lab ID: 280-45026-14** **Client ID: B255SCS1104AA**

Sample Date/Time: 07/29/2013 13:45 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-14-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-14-B | | 280-187287 | 280-186959 | 08/15/2013 01:44 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-14-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-14-B | | 280-187483 | 280-186959 | 08/15/2013 18:48 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-14 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID: 280-45026-15** **Client ID: B255SCS1108AA**

Sample Date/Time: 07/29/2013 13:47 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-15-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-15-B | | 280-187287 | 280-186959 | 08/15/2013 01:46 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-15-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-15-B | | 280-187483 | 280-186959 | 08/15/2013 18:50 | 1 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-15 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID: 280-45026-16** **Client ID: B255SCS1112AA**

Sample Date/Time: 07/29/2013 13:59 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-16-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-16-B | | 280-187287 | 280-186959 | 08/15/2013 01:48 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-16-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-16-B | | 280-187483 | 280-186959 | 08/15/2013 18:53 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-16-B ^5 | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 5 | TAL DEN | JAM |
| A:6010C | 280-45026-A-16-B ^5 | | 280-187483 | 280-186959 | 08/15/2013 18:55 | 5 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-16 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

**Lab ID: 280-45026-17** **Client ID: B255SCS1116AA**

Sample Date/Time: 07/29/2013 14:30 Received Date/Time: 08/01/2013 09:30

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3050B | 280-45026-A-17-B | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-17-B | | 280-187287 | 280-186959 | 08/15/2013 01:50 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-17-B | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | 280-45026-A-17-B | | 280-187483 | 280-186959 | 08/15/2013 18:57 | 1 | TAL DEN | JKH |
| P:3050B | 280-45026-A-17-B ^5 | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 5 | TAL DEN | JAM |
| A:6010C | 280-45026-A-17-B ^5 | | 280-187483 | 280-186959 | 08/15/2013 19:00 | 5 | TAL DEN | JKH |
| A:Moisture | 280-45026-A-17 | | 280-186980 | | 08/13/2013 11:03 | 1 | TAL DEN | IBM |

Client: FPM Remediations Inc

Job Number: 280-45026-1

## Laboratory Chronicle

**Lab ID:** MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | MB 280-186667/1-A | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 1 | TAL DEN | EJP |
| A:8270D/DoD | MB 280-186667/1-A | | 280-187134 | 280-186667 | 08/14/2013 13:55 | 1 | TAL DEN | MGH |
| P:3050B | MB 280-186959/1-A | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | MB 280-186959/1-A | | 280-187287 | 280-186959 | 08/15/2013 00:36 | 1 | TAL DEN | JKH |
| P:3050B | MB 280-186959/1-A | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | MB 280-186959/1-A | | 280-187483 | 280-186959 | 08/15/2013 17:35 | 1 | TAL DEN | JKH |

**Lab ID:** LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3550C | LCS 280-186667/2-A | | 280-187134 | 280-186667 | 08/09/2013 19:55 | 1 | TAL DEN | EJP |
| A:8270D/DoD | LCS 280-186667/2-A | | 280-187134 | 280-186667 | 08/14/2013 14:22 | 1 | TAL DEN | MGH |
| P:3050B | LCS 280-186959/2-A | | 280-187287 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | LCS 280-186959/2-A | | 280-187287 | 280-186959 | 08/15/2013 00:39 | 1 | TAL DEN | JKH |
| P:3050B | LCS 280-186959/2-A | | 280-187483 | 280-186959 | 08/14/2013 13:00 | 1 | TAL DEN | JAM |
| A:6010C | LCS 280-186959/2-A | | 280-187483 | 280-186959 | 08/15/2013 17:37 | 1 | TAL DEN | JKH |

**Lab References:**

TAL DEN = TestAmerica Denver

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **8270_LCS_Main_00002** | 07/10/14 | 07/10/13 | P&T Methanol, Lot MethanolP&T_00064 | 250 mL | MS-567672_00007 | 5 mL | 1,1'-Biphenyl | 80 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 80 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 80.878 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dioxane | 80 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 80 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 80 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 80 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 160 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 80 ug/mL |
| | | | | | | | 2-Chlorophenol | 80 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2-Methylphenol | 80 ug/mL |
| | | | | | | | 2-Nitroaniline | 80 ug/mL |
| | | | | | | | 2-Nitrophenol | 80 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 80 ug/mL |
| | | | | | | | 3-Methylphenol | 80 ug/mL |
| | | | | | | | 3-Nitroaniline | 80 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 160 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 80 ug/mL |
| | | | | | | | 4-Chloroaniline | 80 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Methylphenol | 80 ug/mL |
| | | | | | | | 4-Nitroaniline | 80 ug/mL |
| | | | | | | | 4-Nitrophenol | 160 ug/mL |
| | | | | | | | Acenaphthene | 80 ug/mL |
| | | | | | | | Acenaphthylene | 80 ug/mL |
| | | | | | | | Acetophenone | 80 ug/mL |
| | | | | | | | Aniline | 80 ug/mL |
| | | | | | | | Anthracene | 80 ug/mL |
| | | | | | | | Azobenzene | 80 ug/mL |
| | | | | | | | Benzo[a]anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]pyrene | 80 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 80 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 80 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzyl alcohol | 80 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 80 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 80 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 80 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 80 ug/mL |
| | | | | | | | Carbazole | 80 ug/mL |
| | | | | | | | Chrysene | 80 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 80 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 80 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 80 ug/mL |
| | | | | | | | Dibenzofuran | 80 ug/mL |
| | | | | | | | Diethyl phthalate | 80 ug/mL |
| | | | | | | | Dimethyl phthalate | 80 ug/mL |
| | | | | | | | Fluoranthene | 80 ug/mL |
| | | | | | | | Fluorene | 80 ug/mL |
| | | | | | | | Hexachlorobenzene | 80 ug/mL |
| | | | | | | | Hexachlorobutadiene | 80 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 80 ug/mL |
| | | | | | | | Hexachloroethane | 80 ug/mL |
| | | | | | | | Hexadecane | 80 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 80 ug/mL |
| | | | | | | | Isophorone | 80 ug/mL |
| | | | | | | | n-Decane | 80 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 80 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 80 ug/mL |
| | | | | | | | n-Octadecane | 80 ug/mL |
| | | | | | | | Naphthalene | 80 ug/mL |
| | | | | | | | Nitrobenzene | 80 ug/mL |
| | | | | | | | Pentachlorophenol | 160 ug/mL |
| | | | | | | | Phenanthrene | 80 ug/mL |
| | | | | | | | Phenol | 80 ug/mL |
| | | | | | | | Pyrene | 80 ug/mL |
| | | | | | | | Pyridine | 80 ug/mL |
| | | | | | MS-567672_00008 | 5 mL | 1,1'-Biphenyl | 80 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 80 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 80.878 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dioxane | 80 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 80 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 80 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,4-Dimethylphenol | 80 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 160 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 80 ug/mL |
| | | | | | | | 2-Chlorophenol | 80 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2-Methylphenol | 80 ug/mL |
| | | | | | | | 2-Nitroaniline | 80 ug/mL |
| | | | | | | | 2-Nitrophenol | 80 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 80 ug/mL |
| | | | | | | | 3-Methylphenol | 80 ug/mL |
| | | | | | | | 3-Nitroaniline | 80 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 160 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 80 ug/mL |
| | | | | | | | 4-Chloroaniline | 80 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Methylphenol | 80 ug/mL |
| | | | | | | | 4-Nitroaniline | 80 ug/mL |
| | | | | | | | 4-Nitrophenol | 160 ug/mL |
| | | | | | | | Acenaphthene | 80 ug/mL |
| | | | | | | | Acenaphthylene | 80 ug/mL |
| | | | | | | | Acetophenone | 80 ug/mL |
| | | | | | | | Aniline | 80 ug/mL |
| | | | | | | | Anthracene | 80 ug/mL |
| | | | | | | | Azobenzene | 80 ug/mL |
| | | | | | | | Benzo[a]anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]pyrene | 80 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 80 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 80 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 80 ug/mL |
| | | | | | | | Benzyl alcohol | 80 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 80 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 80 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 80 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 80 ug/mL |
| | | | | | | | Carbazole | 80 ug/mL |
| | | | | | | | Chrysene | 80 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 80 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 80 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 80 ug/mL |
| | | | | | | | Dibenzofuran | 80 ug/mL |
| | | | | | | | Diethyl phthalate | 80 ug/mL |
| | | | | | | | Dimethyl phthalate | 80 ug/mL |
| | | | | | | | Fluoranthene | 80 ug/mL |
| | | | | | | | Fluorene | 80 ug/mL |
| | | | | | | | Hexachlorobenzene | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachlorobutadiene | 80 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 80 ug/mL |
| | | | | | | | Hexachloroethane | 80 ug/mL |
| | | | | | | | Hexadecane | 80 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 80 ug/mL |
| | | | | | | | Isophorone | 80 ug/mL |
| | | | | | | | n-Decane | 80 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 80 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 80 ug/mL |
| | | | | | | | n-Octadecane | 80 ug/mL |
| | | | | | | | Naphthalene | 80 ug/mL |
| | | | | | | | Nitrobenzene | 80 ug/mL |
| | | | | | | | Pentachlorophenol | 160 ug/mL |
| | | | | | | | Phenanthrene | 80 ug/mL |
| | | | | | | | Phenol | 80 ug/mL |
| | | | | | | | Pyrene | 80 ug/mL |
| | | | | | | | Pyridine | 80 ug/mL |
| | | | | | MS-567672_00009 | 5 mL | 1,1'-Biphenyl | 80 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 80 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 80.878 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dioxane | 80 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 80 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 80 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 80 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 160 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 80 ug/mL |
| | | | | | | | 2-Chlorophenol | 80 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2-Methylphenol | 80 ug/mL |
| | | | | | | | 2-Nitroaniline | 80 ug/mL |
| | | | | | | | 2-Nitrophenol | 80 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 80 ug/mL |
| | | | | | | | 3-Methylphenol | 80 ug/mL |
| | | | | | | | 3-Nitroaniline | 80 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 160 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Chloroaniline | 80 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Methylphenol | 80 ug/mL |
| | | | | | | | 4-Nitroaniline | 80 ug/mL |
| | | | | | | | 4-Nitrophenol | 160 ug/mL |
| | | | | | | | Acenaphthene | 80 ug/mL |
| | | | | | | | Acenaphthylene | 80 ug/mL |
| | | | | | | | Acetophenone | 80 ug/mL |
| | | | | | | | Aniline | 80 ug/mL |
| | | | | | | | Anthracene | 80 ug/mL |
| | | | | | | | Azobenzene | 80 ug/mL |
| | | | | | | | Benzo[a]anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]pyrene | 80 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 80 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 80 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 80 ug/mL |
| | | | | | | | Benzyl alcohol | 80 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 80 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 80 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 80 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 80 ug/mL |
| | | | | | | | Carbazole | 80 ug/mL |
| | | | | | | | Chrysene | 80 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 80 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 80 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 80 ug/mL |
| | | | | | | | Dibenzofuran | 80 ug/mL |
| | | | | | | | Diethyl phthalate | 80 ug/mL |
| | | | | | | | Dimethyl phthalate | 80 ug/mL |
| | | | | | | | Fluoranthene | 80 ug/mL |
| | | | | | | | Fluorene | 80 ug/mL |
| | | | | | | | Hexachlorobenzene | 80 ug/mL |
| | | | | | | | Hexachlorobutadiene | 80 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 80 ug/mL |
| | | | | | | | Hexachloroethane | 80 ug/mL |
| | | | | | | | Hexadecane | 80 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 80 ug/mL |
| | | | | | | | Isophorone | 80 ug/mL |
| | | | | | | | n-Decane | 80 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 80 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 80 ug/mL |
| | | | | | | | n-Octadecane | 80 ug/mL |
| | | | | | | | Naphthalene | 80 ug/mL |
| | | | | | | | Nitrobenzene | 80 ug/mL |
| | | | | | | | Pentachlorophenol | 160 ug/mL |
| | | | | | | | Phenanthrene | 80 ug/mL |
| | | | | | | | Phenol | 80 ug/mL |
| | | | | | | | Pyrene | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Pyridine | 80 ug/mL |
| | | | | | MS-567672_00010 | 5 mL | 1,1'-Biphenyl | 80 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 80 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 80.878 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dioxane | 80 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 80 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 80 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 80 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 160 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 80 ug/mL |
| | | | | | | | 2-Chlorophenol | 80 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2-Methylphenol | 80 ug/mL |
| | | | | | | | 2-Nitroaniline | 80 ug/mL |
| | | | | | | | 2-Nitrophenol | 80 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 80 ug/mL |
| | | | | | | | 3-Methylphenol | 80 ug/mL |
| | | | | | | | 3-Nitroaniline | 80 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 160 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 80 ug/mL |
| | | | | | | | 4-Chloroaniline | 80 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Methylphenol | 80 ug/mL |
| | | | | | | | 4-Nitroaniline | 80 ug/mL |
| | | | | | | | 4-Nitrophenol | 160 ug/mL |
| | | | | | | | Acenaphthene | 80 ug/mL |
| | | | | | | | Acenaphthylene | 80 ug/mL |
| | | | | | | | Acetophenone | 80 ug/mL |
| | | | | | | | Aniline | 80 ug/mL |
| | | | | | | | Anthracene | 80 ug/mL |
| | | | | | | | Azobenzene | 80 ug/mL |
| | | | | | | | Benzo[a]anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]pyrene | 80 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 80 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 80 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzyl alcohol | 80 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 80 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 80 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 80 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 80 ug/mL |
| | | | | | | | Carbazole | 80 ug/mL |
| | | | | | | | Chrysene | 80 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 80 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 80 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 80 ug/mL |
| | | | | | | | Dibenzofuran | 80 ug/mL |
| | | | | | | | Diethyl phthalate | 80 ug/mL |
| | | | | | | | Dimethyl phthalate | 80 ug/mL |
| | | | | | | | Fluoranthene | 80 ug/mL |
| | | | | | | | Fluorene | 80 ug/mL |
| | | | | | | | Hexachlorobenzene | 80 ug/mL |
| | | | | | | | Hexachlorobutadiene | 80 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 80 ug/mL |
| | | | | | | | Hexachloroethane | 80 ug/mL |
| | | | | | | | Hexadecane | 80 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 80 ug/mL |
| | | | | | | | Isophorone | 80 ug/mL |
| | | | | | | | n-Decane | 80 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 80 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 80 ug/mL |
| | | | | | | | n-Octadecane | 80 ug/mL |
| | | | | | | | Naphthalene | 80 ug/mL |
| | | | | | | | Nitrobenzene | 80 ug/mL |
| | | | | | | | Pentachlorophenol | 160 ug/mL |
| | | | | | | | Phenanthrene | 80 ug/mL |
| | | | | | | | Phenol | 80 ug/mL |
| | | | | | | | Pyrene | 80 ug/mL |
| | | | | | | | Pyridine | 80 ug/mL |
| | | | | | MS-567674_00003 | 5 mL | Benzoic acid | 80 ug/mL |
| | | | | | MS-567674_00004 | 5 mL | Benzoic acid | 80 ug/mL |
| | | | | | MS-567676_00005 | 5 mL | N-Nitrosodiphenylamine | 80 ug/mL |
| | | | | | MS-567676_00006 | 5 mL | N-Nitrosodiphenylamine | 80 ug/mL |
| .MS-567672_00007 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Azobenzene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Hexadecane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | n-Decane | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | n-Octadecane | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| .MS-567672_00008 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Methylphenol | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Azobenzene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Hexadecane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | n-Decane | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | n-Octadecane | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| .MS-567672_00009 | 08/31/14 | Restek, Lot A093709 | | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Azobenzene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Hexadecane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | n-Decane | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | n-Octadecane | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| .MS-567672_00010 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Azobenzene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Hexadecane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | n-Decane | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | n-Octadecane | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| .MS-567674_00003 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| .MS-567674_00004 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| .MS-567676_00005 | 07/10/14 | | Restek, Lot A093442 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-567676_00006 | 07/10/14 | | Restek, Lot A093442 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| **8270_LCS_Supp_00010** | 08/09/13 | 08/02/13 | P&T Methanol, Lot MethanolP&T_00064 | 50 mL | MS-567673_00022 | 1.8 mL | 3,3'-Dichlorobenzidine | 80 ug/mL |
| | | | | | | | Atrazine | 80 ug/mL |
| | | | | | | | Benzidine | 80 ug/mL |
| | | | | | | | Caprolactam | 80 ug/mL |
| | | | | | MS-567673_00032 | 0.2 mL | 3,3'-Dichlorobenzidine | 80 ug/mL |
| | | | | | | | Atrazine | 80 ug/mL |
| | | | | | | | Benzidine | 80 ug/mL |
| | | | | | | | Caprolactam | 80 ug/mL |
| .MS-567673_00022 | 07/19/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| .MS-567673_00032 | 08/02/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| **8270Surrogate_00061** | 07/30/14 | 07/30/13 | ACETONE, Lot Acetone_00057 | 1000 mL | 8270SurStkHL_00013 | 5 mL | 2,4,6 - Tribromophenol | 100 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 100 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 100 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 100 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Nitrobenzene-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d6 | 100 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 100 ug/mL |
| | | | | | 8270SurStkHL_00014 | 5 mL | 2,4,6 - Tribromophenol | 100 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 100 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 100 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 100 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d6 | 100 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 100 ug/mL |
| | | | | | 8270SurStkHL_00019 | 5 mL | 2,4,6 - Tribromophenol | 100 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 100 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 100 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 100 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d6 | 100 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 100 ug/mL |
| | | | | | 8270SurStkHL_00020 | 5 mL | 2,4,6 - Tribromophenol | 100 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 100 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 100 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 100 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d6 | 100 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 100 ug/mL |
| .8270SurStkHL_00013 | 02/28/18 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6 - Tribromophenol | 5000 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d6 | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| .8270SurStkHL_00014 | 02/28/18 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6 - Tribromophenol | 5000 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d6 | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| .8270SurStkHL_00019 | 02/28/18 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6 - Tribromophenol | 5000 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d6 | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| .8270SurStkHL_00020 | 02/28/18 | Restek, Lot A093638 | | | (Purchased Reagent) | | 2,4,6 - Tribromophenol | 5000 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d6 | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| **Alt As Pb_00001** | 03/01/14 | 08/14/13 | 5%5%HNO3HCL, Lot See Reagent Log | 1000 mL | 1000 As_00009 | 0.015 mL | Arsenic | 0.015 ppm |
| | | | | | 1000 Pb_00012 | 0.009 mL | Lead | 0.009 ppm |
| .1000 As_00009 | 03/01/14 | Inorganic Venture, Lot F2-AS02083 | | | (Purchased Reagent) | | Arsenic | 1000 mg/L |
| .1000 Pb_00012 | 06/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| **Alt Pb Sb_00004** | 10/01/13 | 08/15/13 | 5%5%HNO3HCL, Lot See Reagent Log | 1000 mL | 1000 Pb_00011 | 0.009 mL | Lead | 0.009 ppm |
| | | | | | 1000 Sb_00007 | 0.015 mL | Antimony | 0.015 ppm |
| .1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| .1000 Sb_00007 | 10/01/13 | Inorganic Ventures, Lot F2-SB03010 | | | (Purchased Reagent) | | Antimony | 1000 mg/L |
| **ICP CCVH_00273** | 01/01/14 | 07/30/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL2A_00183 | 250 mL | Aluminum | 50 mg/L |
| | | | | | | | Iron | 50 mg/L |
| | | | | | | | Sodium | 250 mg/L |
| .ICP ICAL2A_00183 | 01/01/14 | 07/30/13 | 5%HCl/5% HNO3, Lot see reagent log | 1000 mL | 10000 Al_00008 | 10 mL | Aluminum | 100 mg/L |
| | | | | | 10000 Fe_00008 | 10 mL | Iron | 100 mg/L |
| | | | | | 10000 Na_00025 | 50 mL | Sodium | 500 mg/L |
| ..10000 Al_00008 | 01/01/14 | Inorganic Ventures, Lot F2-AL04115 | | | (Purchased Reagent) | | Aluminum | 10000 mg/L |
| ..10000 Fe_00008 | 01/01/14 | Inorganic Ventures, Lot F2-FE04007 | | | (Purchased Reagent) | | Iron | 10000 mg/L |
| ..10000 Na_00025 | 06/01/14 | Inorganic Ventures, Lot F2-NA03103 | | | (Purchased Reagent) | | Sodium | 10000 mg/L |
| **ICP CCVL_00324** | 09/01/13 | 08/12/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL1A_00302 | 250 mL | Arsenic | 1 mg/L |
| | | | | | | | Lead | 1 mg/L |
| | | | | | | | Antimony | 1 mg/L |
| | | | | | | | Selenium | 1 mg/L |
| | | | | | | | Thallium | 1 mg/L |
| | | | | | | | Molybdenum | 0.5 mg/L |
| | | | | | | | Aluminum | 0.5 mg/L |
| | | | | | | | Barium | 0.5 mg/L |
| | | | | | | | Beryllium | 0.5 mg/L |
| | | | | | | | Boron | 0.5 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 5 mg/L |
| | | | | | | | Chromium | 0.5 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cobalt | 0.5 mg/L |
| | | | | | | | Copper | 0.5 mg/L |
| | | | | | | | Iron | 2.5 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 0.5 mg/L |
| | | | | | | | Nickel | 0.5 mg/L |
| | | | | | | | Potassium | 50 mg/L |
| | | | | | | | Silver | 0.5 mg/L |
| | | | | | | | Sodium | 5 mg/L |
| | | | | | | | Strontium | 0.5 mg/L |
| | | | | | | | Vanadium | 0.5 mg/L |
| | | | | | | | Zinc | 0.5 mg/L |
| .ICP ICAL1A_00302 | 09/01/13 | 08/12/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | 1000 As_00008 | 1 mL | Arsenic | 2 mg/L |
| | | | | | 1000 Pb_00011 | 1 mL | Lead | 2 mg/L |
| | | | | | 1000 Sb_00007 | 1 mL | Antimony | 2 mg/L |
| | | | | | 1000 Se_00006 | 1 mL | Selenium | 2 mg/L |
| | | | | | 1000 Tl_00006 | 1 mL | Thallium | 2 mg/L |
| | | | | | Icp cal std 2_00006 | 5 mL | Molybdenum | 1 mg/L |
| | | | | | Icp cal std 3_00006 | 5 mL | Aluminum | 1 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 1 mg/L |
| | | | | | | | Cadmium | 1 mg/L |
| | | | | | | | Calcium | 10 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1 mg/L |
| | | | | | | | Iron | 5 mg/L |
| | | | | | | | Magnesium | 40 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 1 mg/L |
| | | | | | | | Potassium | 100 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 10 mg/L |
| | | | | | | | Strontium | 1 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 1 mg/L |
| ..1000 As_00008 | 09/01/13 | Inorganic Venture, Lot F2-AS02083 | | | (Purchased Reagent) | | Arsenic | 1000 mg/L |
| ..1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| ..1000 Sb_00007 | 10/01/13 | Inorganic Ventures, Lot F2-SB03010 | | | (Purchased Reagent) | | Antimony | 1000 mg/L |
| ..1000 Se_00006 | 10/01/13 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| ..1000 Tl_00006 | 10/01/13 | Inorganic Ventures, Lot E2-TL01124 | | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| ..Icp cal std 2_00006 | 11/01/13 | Inorganic Ventures, Lot E2-meb407033 | | | (Purchased Reagent) | | Molybdenum | 100 mg/L |
| ..Icp cal std 3_00006 | 11/01/13 | Inorganic Ventures, Lot F2-meb443149 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 100 mg/L |
| | | | | | | | Beryllium | 100 mg/L |
| | | | | | | | Boron | 100 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cadmium | 100 mg/L |
| | | | | | | | Calcium | 1000 mg/L |
| | | | | | | | Chromium | 100 mg/L |
| | | | | | | | Cobalt | 100 mg/L |
| | | | | | | | Copper | 100 mg/L |
| | | | | | | | Iron | 500 mg/L |
| | | | | | | | Magnesium | 4000 mg/L |
| | | | | | | | Manganese | 100 mg/L |
| | | | | | | | Nickel | 100 mg/L |
| | | | | | | | Potassium | 10000 mg/L |
| | | | | | | | Silver | 100 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Strontium | 100 mg/L |
| | | | | | | | Vanadium | 100 mg/L |
| | | | | | | | Zinc | 100 mg/L |
| **ICP CCVL_00325** | 10/01/13 | 08/15/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | ICP ICAL1A_00303 | 250 mL | Lead | 1 mg/L |
| | | | | | | | Antimony | 1 mg/L |
| | | | | | | | Selenium | 1 mg/L |
| | | | | | | | Thallium | 1 mg/L |
| | | | | | | | Molybdenum | 0.5 mg/L |
| | | | | | | | Aluminum | 0.5 mg/L |
| | | | | | | | Barium | 0.5 mg/L |
| | | | | | | | Beryllium | 0.5 mg/L |
| | | | | | | | Boron | 0.5 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 5 mg/L |
| | | | | | | | Chromium | 0.5 mg/L |
| | | | | | | | Cobalt | 0.5 mg/L |
| | | | | | | | Copper | 0.5 mg/L |
| | | | | | | | Iron | 2.5 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 0.5 mg/L |
| | | | | | | | Nickel | 0.5 mg/L |
| | | | | | | | Potassium | 50 mg/L |
| | | | | | | | Silver | 0.5 mg/L |
| | | | | | | | Sodium | 5 mg/L |
| | | | | | | | Strontium | 0.5 mg/L |
| | | | | | | | Vanadium | 0.5 mg/L |
| | | | | | | | Zinc | 0.5 mg/L |
| .ICP ICAL1A_00303 | 10/01/13 | 08/15/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 500 mL | 1000 Pb_00011 | 1 mL | Lead | 2 mg/L |
| | | | | | 1000 Sb_00007 | 1 mL | Antimony | 2 mg/L |
| | | | | | 1000 Se_00007 | 1 mL | Selenium | 2 mg/L |
| | | | | | 1000 Tl_00006 | 1 mL | Thallium | 2 mg/L |
| | | | | | Icp cal std 2_00007 | 5 mL | Molybdenum | 1 mg/L |
| | | | | | Icp cal std 3_00007 | 5 mL | Aluminum | 1 mg/L |
| | | | | | | | Barium | 1 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 1 mg/L |
| | | | | | | | Cadmium | 1 mg/L |
| | | | | | | | Calcium | 10 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1 mg/L |
| | | | | | | | Iron | 5 mg/L |
| | | | | | | | Magnesium | 40 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 1 mg/L |
| | | | | | | | Potassium | 100 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 10 mg/L |
| | | | | | | | Strontium | 1 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 1 mg/L |
| ..1000 Pb_00011 | 03/01/14 | Inorganic Ventures, Lot F2-PB03035 | | | (Purchased Reagent) | | Lead | 1000 mg/L |
| ..1000 Sb_00007 | 10/01/13 | Inorganic Ventures, Lot F2-SB03010 | | | (Purchased Reagent) | | Antimony | 1000 mg/L |
| ..1000 Se_00007 | 05/01/14 | Inorganic Ventures, Lot E2-SE02033 | | | (Purchased Reagent) | | Selenium | 1000 mg/L |
| ..1000 Tl_00006 | 10/01/13 | Inorganic Ventures, Lot E2-TL01124 | | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| ..Icp cal std 2_00007 | 08/01/14 | Inorganic Ventures, Lot G2-MEB485102 | | | (Purchased Reagent) | | Molybdenum | 100 mg/L |
| ..Icp cal std 3_00007 | 08/01/14 | Inorganic Ventures, Lot G2-MEB485103 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 100 mg/L |
| | | | | | | | Beryllium | 100 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 100 mg/L |
| | | | | | | | Calcium | 1000 mg/L |
| | | | | | | | Chromium | 100 mg/L |
| | | | | | | | Cobalt | 100 mg/L |
| | | | | | | | Copper | 100 mg/L |
| | | | | | | | Iron | 500 mg/L |
| | | | | | | | Magnesium | 4000 mg/L |
| | | | | | | | Manganese | 100 mg/L |
| | | | | | | | Nickel | 100 mg/L |
| | | | | | | | Potassium | 10000 mg/L |
| | | | | | | | Silver | 100 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Strontium | 100 mg/L |
| | | | | | | | Vanadium | 100 mg/L |
| | | | | | | | Zinc | 100 mg/L |
| **ICP ICSA_00075** | 01/01/14 | 07/26/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 250 mL | Icp stk ICSA_00007 | 25 mL | Aluminum | 500 mg/L |
| | | | | | | | Calcium | 500 mg/L |
| | | | | | | | Iron | 200 mg/L |
| | | | | | | | Magnesium | 500 mg/L |
| .Icp stk ICSA_00007 | 01/01/14 | Inorganic Ventures, Lot F2-MEB414132 | | | (Purchased Reagent) | | Aluminum | 5000 mg/L |
| | | | | | | | Calcium | 5000 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Iron | 2000 mg/L |
| | | | | | | | Magnesium | 5000 mg/L |
| **ICP ICSAB_00069** | 09/19/13 | 08/01/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 250 mL | 1000 Zr_00005 | 0.25 mL | Zr | 1 mg/L |
| | | | | | 10000 Si_00008 | 0.25 mL | Si | 10 mg/L |
| | | | | | | | SiO2 | 21.4 mg/L |
| | | | | | 10000 Th_00004 | 0.05 mL | Th | 2 mg/L |
| | | | | | ANALYTES B_00006 | 2.5 mL | Barium | 0.5 mg/L |
| | | | | | | | Beryllium | 0.5 mg/L |
| | | | | | | | Cadmium | 1 mg/L |
| | | | | | | | Chromium | 0.5 mg/L |
| | | | | | | | Cobalt | 0.5 mg/L |
| | | | | | | | Copper | 0.5 mg/L |
| | | | | | | | Lead | 1 mg/L |
| | | | | | | | Manganese | 0.5 mg/L |
| | | | | | | | Nickel | 1 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Vanadium | 0.5 mg/L |
| | | | | | | | Zinc | 1 mg/L |
| | | | | | ICP ISAB 1B_00005 | 2.5 mL | Thallium | 10 mg/L |
| | | | | | ICP ISAB STD1_00005 | 2.5 mL | Antimony | 1 mg/L |
| | | | | | | | Arsenic | 2 mg/L |
| | | | | | | | Boron | 2 mg/L |
| | | | | | | | Li | 1 mg/L |
| | | | | | | | Molybdenum | 1 mg/L |
| | | | | | | | P | 2 mg/L |
| | | | | | | | Potassium | 50 mg/L |
| | | | | | | | Selenium | 5 mg/L |
| | | | | | | | Sodium | 50 mg/L |
| | | | | | | | Strontium | 1 mg/L |
| | | | | | ICP ISAB STD2_00005 | 2.5 mL | Sn | 10 mg/L |
| | | | | | | | Ti | 1 mg/L |
| | | | | | Icp stk ICSA_00007 | 25 mL | Aluminum | 500 mg/L |
| | | | | | | | Calcium | 500 mg/L |
| | | | | | | | Iron | 200 mg/L |
| | | | | | | | Magnesium | 500 mg/L |
| .1000 Zr_00005 | 04/01/14 | Spex, Lot F2-ZR01094 | | | (Purchased Reagent) | | Zr | 1000 mg/L |
| .10000 Si_00008 | 04/01/14 | Inorganic ventures, Lot F2-SI03018 | | | (Purchased Reagent) | | Si | 10000 mg/L |
| | | | | | | | SiO2 | 21400 mg/L |
| .10000 Th_00004 | 01/01/14 | Inorganic Ventures, Lot D2-TH01080 | | | (Purchased Reagent) | | Th | 10000 mg/L |
| .ANALYTES B_00006 | 12/30/13 | SPEX, Lot 7-166YPY | | | (Purchased Reagent) | | Barium | 50 mg/L |
| | | | | | | | Beryllium | 50 mg/L |
| | | | | | | | Cadmium | 100 mg/L |
| | | | | | | | Chromium | 50 mg/L |
| | | | | | | | Cobalt | 50 mg/L |
| | | | | | | | Copper | 50 mg/L |
| | | | | | | | Lead | 100 mg/L |
| | | | | | | | Manganese | 50 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Nickel | 100 mg/L |
| | | | | | | | Silver | 100 mg/L |
| | | | | | | | Vanadium | 50 mg/L |
| | | | | | | | Zinc | 100 mg/L |
| .ICP ISAB 1B_00005 | 04/11/14 | | High Purity, Lot 1309814 | | (Purchased Reagent) | | Thallium | 1000 mg/L |
| .ICP ISAB STD1_00005 | 04/11/14 | | High Purity, Lot 1309813 | | (Purchased Reagent) | | Antimony | 100 mg/L |
| | | | | | | | Arsenic | 200 mg/L |
| | | | | | | | Boron | 200 mg/L |
| | | | | | | | Li | 100 mg/L |
| | | | | | | | Molybdenum | 100 mg/L |
| | | | | | | | P | 200 mg/L |
| | | | | | | | Potassium | 5000 mg/L |
| | | | | | | | Selenium | 500 mg/L |
| | | | | | | | Sodium | 5000 mg/L |
| | | | | | | | Strontium | 100 mg/L |
| .ICP ISAB STD2_00005 | 04/11/14 | | High Purity, Lot 1309815 | | (Purchased Reagent) | | Sn | 1000 mg/L |
| | | | | | | | Ti | 100 mg/L |
| .Icp stk ICSA_00007 | 01/01/14 | | Inorganic Ventures, Lot F2-MEB414132 | | (Purchased Reagent) | | Aluminum | 5000 mg/L |
| | | | | | | | Calcium | 5000 mg/L |
| | | | | | | | Iron | 2000 mg/L |
| | | | | | | | Magnesium | 5000 mg/L |
| **ICP ICVH_00115** | 09/19/13 | 07/24/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 200 mL | Icp ICVH_00101 | 2 mL | Aluminum | 40 mg/L |
| | | | | | | | Iron | 80 mg/L |
| | | | | | | | Sodium | 40 mg/L |
| .Icp ICVH_00101 | 01/02/14 | | High Purity, Lot 1236313 | | (Purchased Reagent) | | Aluminum | 4000 mg/L |
| | | | | | | | Iron | 8000 mg/L |
| | | | | | | | Sodium | 4000 mg/L |
| **ICP ICVH_00116** | 09/19/13 | 08/15/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 200 mL | Icp ICVH_00101 | 2 mL | Aluminum | 40 mg/L |
| | | | | | | | Iron | 80 mg/L |
| | | | | | | | Sodium | 40 mg/L |
| .Icp ICVH_00101 | 01/02/14 | | High Purity, Lot 1236313 | | (Purchased Reagent) | | Aluminum | 4000 mg/L |
| | | | | | | | Iron | 8000 mg/L |
| | | | | | | | Sodium | 4000 mg/L |
| **ICP ICVL_00094** | 03/07/14 | 08/09/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 200 mL | Icp ICVL A_00005 | 2 mL | Aluminum | 0.25 mg/L |
| | | | | | | | Arsenic | 0.25 mg/L |
| | | | | | | | Barium | 0.25 mg/L |
| | | | | | | | Beryllium | 0.25 mg/L |
| | | | | | | | Boron | 0.25 mg/L |
| | | | | | | | Cadmium | 0.25 mg/L |
| | | | | | | | Calcium | 2 mg/L |
| | | | | | | | Chromium | 0.25 mg/L |
| | | | | | | | Cobalt | 0.25 mg/L |
| | | | | | | | Copper | 0.25 mg/L |
| | | | | | | | Iron | 0.25 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Lead | 0.25 mg/L |
| | | | | | | | Magnesium | 10 mg/L |
| | | | | | | | Manganese | 0.25 mg/L |
| | | | | | | | Nickel | 0.25 mg/L |
| | | | | | | | Potassium | 20 mg/L |
| | | | | | | | Selenium | 0.5 mg/L |
| | | | | | | | Sodium | 2 mg/L |
| | | | | | | | Strontium | 0.25 mg/L |
| | | | | | | | Thallium | 0.5 mg/L |
| | | | | | | | Vanadium | 0.25 mg/L |
| | | | | | | | Zinc | 0.25 mg/L |
| | | | | | Icp ICVL B_00005 | 2 mL | Antimony | 0.25 mg/L |
| | | | | | | | Molybdenum | 0.25 mg/L |
| | | | | | | | Silver | 0.25 mg/L |
| .Icp ICVL A_00005 | 03/07/14 | | High Purity, Lot 1306335 | | (Purchased Reagent) | | Aluminum | 25 mg/L |
| | | | | | | | Arsenic | 25 mg/L |
| | | | | | | | Barium | 25 mg/L |
| | | | | | | | Beryllium | 25 mg/L |
| | | | | | | | Boron | 25 mg/L |
| | | | | | | | Cadmium | 25 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 25 mg/L |
| | | | | | | | Cobalt | 25 mg/L |
| | | | | | | | Copper | 25 mg/L |
| | | | | | | | Iron | 25 mg/L |
| | | | | | | | Lead | 25 mg/L |
| | | | | | | | Magnesium | 1000 mg/L |
| | | | | | | | Manganese | 25 mg/L |
| | | | | | | | Nickel | 25 mg/L |
| | | | | | | | Potassium | 2000 mg/L |
| | | | | | | | Selenium | 50 mg/L |
| | | | | | | | Sodium | 200 mg/L |
| | | | | | | | Strontium | 25 mg/L |
| | | | | | | | Thallium | 50 mg/L |
| | | | | | | | Vanadium | 25 mg/L |
| | | | | | | | Zinc | 25 mg/L |
| .Icp ICVL B_00005 | 03/07/14 | | HIGH PURITY, Lot 1306324 | | (Purchased Reagent) | | Antimony | 25 mg/L |
| | | | | | | | Molybdenum | 25 mg/L |
| | | | | | | | Silver | 25 mg/L |
| **ICP LLCCV_00944** | 08/15/13 | 08/14/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00018 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Arsenic | 0.015 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Strontium | 0.01 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00009 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00018 | 07/01/14 | Inorganic Ventures, Lot G2-MEB476096 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Arsenic | 1.5 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 100 mg/L |
| | | | | | | | Strontium | 1 mg/L |
| | | | | | | | Thallium | 1.5 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 2 mg/L |
| .ICP LLCCV-2_00009 | 07/01/14 | Inorganic Ventures, Lot G2-MEB476097 | | | (Purchased Reagent) | | Antimony | 1 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP LLCCV_00945** | 08/16/13 | 08/15/13 | 5%/5% HCL/HNO3, Lot SEE LOGBOOK | 100 mL | ICP LLCCV-1_00018 | 1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.01 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.01 mg/L |
| | | | | | | | Copper | 0.015 mg/L |
| | | | | | | | Iron | 0.1 mg/L |
| | | | | | | | Lead | 0.009 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.01 mg/L |
| | | | | | | | Nickel | 0.04 mg/L |
| | | | | | | | Potassium | 3 mg/L |
| | | | | | | | Selenium | 0.015 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Strontium | 0.01 mg/L |
| | | | | | | | Thallium | 0.015 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.02 mg/L |
| | | | | | ICP LLCCV-2_00009 | 1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Molybdenum | 0.02 mg/L |
| .ICP LLCCV-1_00018 | 07/01/14 | Inorganic Ventures, Lot G2-MEB476096 | | | (Purchased Reagent) | | Aluminum | 10 mg/L |
| | | | | | | | Barium | 1 mg/L |
| | | | | | | | Beryllium | 0.1 mg/L |
| | | | | | | | Cadmium | 0.5 mg/L |
| | | | | | | | Calcium | 20 mg/L |
| | | | | | | | Chromium | 1 mg/L |
| | | | | | | | Cobalt | 1 mg/L |
| | | | | | | | Copper | 1.5 mg/L |
| | | | | | | | Iron | 10 mg/L |
| | | | | | | | Lead | 0.9 mg/L |
| | | | | | | | Magnesium | 20 mg/L |
| | | | | | | | Manganese | 1 mg/L |
| | | | | | | | Nickel | 4 mg/L |
| | | | | | | | Potassium | 300 mg/L |
| | | | | | | | Selenium | 1.5 mg/L |
| | | | | | | | Silver | 1 mg/L |
| | | | | | | | Sodium | 100 mg/L |
| | | | | | | | Strontium | 1 mg/L |
| | | | | | | | Thallium | 1.5 mg/L |
| | | | | | | | Vanadium | 1 mg/L |
| | | | | | | | Zinc | 2 mg/L |
| .ICP LLCCV-2_00009 | 07/01/14 | Inorganic Ventures, Lot G2-MEB476097 | | | (Purchased Reagent) | | Antimony | 1 mg/L |
| | | | | | | | Boron | 10 mg/L |
| | | | | | | | Molybdenum | 2 mg/L |
| **ICP RL STD_00964** | 08/15/13 | 08/14/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00006 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00005 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Boron | 0.1 mg/L |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Iron | 0.03 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Strontium | 0.005 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00006 | 0.1 mL | Antimony | 0.01 mg/L |
| | | | | | | | Selenium | 0.01 mg/L |
| | | | | | | | Thallium | 0.01 mg/L |
| .ICP RL STD 2A_00006 | 07/01/14 | Inorganic Ventures, Lot C2-MEB299021 | | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00005 | 07/01/14 | Inorganic Ventures, Lot G2-MEB481019 | | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Iron | 30 mg/L |
| | | | | | | | Magnesium | 200 mg/L |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Strontium | 5 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| | | | | | | | Zinc | 10 mg/L |
| .ICP RLSTD 1A_00006 | 07/01/14 | Inorganic Ventures, Lot G2-MEB481018 | | | (Purchased Reagent) | | Antimony | 10 mg/L |
| | | | | | | | Selenium | 10 mg/L |
| | | | | | | | Thallium | 10 mg/L |
| **ICP RL STD_00965** | 08/16/13 | 08/15/13 | 5:HNO3/5%HCl, Lot see reagent log | 100 mL | ICP RL STD 2A_00006 | 0.1 mL | Molybdenum | 0.01 mg/L |
| | | | | | ICP RL STD3A_00005 | 0.1 mL | Aluminum | 0.1 mg/L |
| | | | | | | | Barium | 0.005 mg/L |
| | | | | | | | Beryllium | 0.001 mg/L |
| | | | | | | | Boron | 0.1 mg/L |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cadmium | 0.005 mg/L |
| | | | | | | | Calcium | 0.2 mg/L |
| | | | | | | | Chromium | 0.01 mg/L |
| | | | | | | | Cobalt | 0.005 mg/L |
| | | | | | | | Copper | 0.01 mg/L |
| | | | | | | | Iron | 0.03 mg/L |
| | | | | | | | Magnesium | 0.2 mg/L |
| | | | | | | | Manganese | 0.003 mg/L |
| | | | | | | | Nickel | 0.01 mg/L |
| | | | | | | | Potassium | 1 mg/L |
| | | | | | | | Silver | 0.01 mg/L |
| | | | | | | | Sodium | 1 mg/L |
| | | | | | | | Strontium | 0.005 mg/L |
| | | | | | | | Vanadium | 0.01 mg/L |
| | | | | | | | Zinc | 0.01 mg/L |
| | | | | | ICP RLSTD 1A_00006 | 0.1 mL | Selenium | 0.01 mg/L |
| | | | | | | | Thallium | 0.01 mg/L |
| .ICP RL STD 2A_00006 | 07/01/14 | | Inorganic Ventures, Lot C2-MEB299021 | | (Purchased Reagent) | | Molybdenum | 10 mg/L |
| .ICP RL STD3A_00005 | 07/01/14 | | Inorganic Ventures, Lot G2-MEB481019 | | (Purchased Reagent) | | Aluminum | 100 mg/L |
| | | | | | | | Barium | 5 mg/L |
| | | | | | | | Beryllium | 1 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Cadmium | 5 mg/L |
| | | | | | | | Calcium | 200 mg/L |
| | | | | | | | Chromium | 10 mg/L |
| | | | | | | | Cobalt | 5 mg/L |
| | | | | | | | Copper | 10 mg/L |
| | | | | | | | Iron | 30 mg/L |
| | | | | | | | Magnesium | 200 mg/L |
| | | | | | | | Manganese | 3 mg/L |
| | | | | | | | Nickel | 10 mg/L |
| | | | | | | | Potassium | 1000 mg/L |
| | | | | | | | Silver | 10 mg/L |
| | | | | | | | Sodium | 1000 mg/L |
| | | | | | | | Strontium | 5 mg/L |
| | | | | | | | Vanadium | 10 mg/L |
| | | | | | | | Zinc | 10 mg/L |
| .ICP RLSTD 1A_00006 | 07/01/14 | | Inorganic Ventures, Lot G2-MEB481018 | | (Purchased Reagent) | | Selenium | 10 mg/L |
| | | | | | | | Thallium | 10 mg/L |
| **ICP SPK 2A_00062** | 07/01/14 | | Inorganic Ventures, Lot G2-MEB477031 | | (Purchased Reagent) | | Antimony | 50 mg/L |
| | | | | | | | Boron | 100 mg/L |
| | | | | | | | Molybdenum | 100 mg/L |
| | | | | | | | Si | 1000 mg/L |
| | | | | | | | SiO2 | 2140 mg/L |
| | | | | | | | Sn | 200 mg/L |
| | | | | | | | Ti | 100 mg/L |
| | | | | | | | Zr | 50 mg/L |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **ICP SPK 3A_00065** | 07/01/14 | Inorganic Ventures, Lot G2-MEB465153 | | | (Purchased Reagent) | | Aluminum | 200 mg/L |
| | | | | | | | Arsenic | 100 mg/L |
| | | | | | | | Barium | 200 mg/L |
| | | | | | | | Beryllium | 5 mg/L |
| | | | | | | | Bi | 200 mg/L |
| | | | | | | | Cadmium | 10 mg/L |
| | | | | | | | Calcium | 5000 mg/L |
| | | | | | | | Chromium | 20 mg/L |
| | | | | | | | Cobalt | 50 mg/L |
| | | | | | | | Copper | 25 mg/L |
| | | | | | | | Iron | 100 mg/L |
| | | | | | | | Lead | 50 mg/L |
| | | | | | | | Li | 100 mg/L |
| | | | | | | | Magnesium | 5000 mg/L |
| | | | | | | | Manganese | 50 mg/L |
| | | | | | | | Nickel | 50 mg/L |
| | | | | | | | P | 1000 mg/L |
| | | | | | | | Potassium | 5000 mg/L |
| | | | | | | | Selenium | 200 mg/L |
| | | | | | | | Silver | 5 mg/L |
| | | | | | | | Sodium | 5000 mg/L |
| | | | | | | | Strontium | 100 mg/L |
| | | | | | | | Th | 100 mg/L |
| | | | | | | | Thallium | 200 mg/L |
| | | | | | | | U | 200 mg/L |
| | | | | | | | Vanadium | 50 mg/L |
| | | | | | | | Zinc | 50 mg/L |
| **MS-AP9A010_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 25 uL | 1,3,5-Trinitrobenzene | 10 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 10 ug/mL |
| | | | | | | | 1-Naphthylamine | 10 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 10 ug/mL |
| | | | | | | | 2-Naphthylamine | 10 ug/mL |
| | | | | | | | 2-Picoline | 10 ug/mL |
| | | | | | | | 2-Toluidine | 10 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 10 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 10 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 10 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 10 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 10 ug/mL |
| | | | | | | | Diphenylamine | 10 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 10 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 10 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 10 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 10 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 10 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | N-Nitrosopiperidine | 10 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 10 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 10 ug/mL |
| | | | | | | | p-Phenylene diamine | 10 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 10 ug/mL |
| | | | | | | | Phenacetin | 10 ug/mL |
| | | | | | | | Pronamide | 10 ug/mL |
| | | | | | | | 1,4-Naphthoquinone | 10 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 10 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 10 ug/mL |
| | | | | | | | Chlorobenzilate | 10 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 10 ug/mL |
| | | | | | | | Hexachloropropene | 10 ug/mL |
| | | | | | | | Isodrin | 10 ug/mL |
| | | | | | | | Methyl methanesulfonate | 10 ug/mL |
| | | | | | | | Pentachlorobenzene | 10 ug/mL |
| | | | | | | | Pentachloroethane | 10 ug/mL |
| | | | | | | | 3-Methylcholanthrene | 10 ug/mL |
| | | | | | | | Aramite Peak 1 | 4.61 ug/mL |
| | | | | | | | Aramite Peak 2 | 5.39 ug/mL |
| | | | | | | | Diallate Peak 1 | 8.82 ug/mL |
| | | | | | | | Diallate Peak 2 | 1.18 ug/mL |
| | | | | | | | Dimethoate | 10 ug/mL |
| | | | | | | | Disulfoton | 10 ug/mL |
| | | | | | | | Ethyl Parathion | 10 ug/mL |
| | | | | | | | Methyl parathion | 10 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 10 ug/mL |
| | | | | | | | Phorate | 10 ug/mL |
| | | | | | | | Safrole, Total | 10 ug/mL |
| | | | | | | | Sulfotepp | 10 ug/mL |
| | | | | | | | Thionazin | 10 ug/mL |
| | | | | | | | Methapyrilene | 10 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | MS-567680_00002 | 1 mL | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | MS-567681_00002 | 2 mL | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | MS-567682_00002 | 1 mL | Methapyrilene | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1-Naphthylamine | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Acetylaminofluorene | 1000 ug/mL |
| | | | | | | | 2-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Picoline | 1000 ug/mL |
| | | | | | | | 2-Toluidine | 1000 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 1000 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 1000 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 1000 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 1000 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 1000 ug/mL |
| | | | | | | | Diphenylamine | 1000 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 1000 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 1000 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 1000 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 1000 ug/mL |
| | | | | | | | p-Phenylene diamine | 1000 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 1000 ug/mL |
| | | | | | | | Phenacetin | 1000 ug/mL |
| | | | | | | | Pronamide | 1000 ug/mL |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 1,4-Naphthoquinone | 1000 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 1000 ug/mL |
| | | | | | | | Chlorobenzilate | 1000 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Hexachloropropene | 1000 ug/mL |
| | | | | | | | Isodrin | 1000 ug/mL |
| | | | | | | | Methyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Pentachlorobenzene | 1000 ug/mL |
| | | | | | | | Pentachloroethane | 1000 ug/mL |
| ..MS-567680_00002 | 02/29/16 | | Restek, Lot A093631 | | (Purchased Reagent) | | 3-Methylcholanthrene | 2000 ug/mL |
| ..MS-567681_00002 | 02/28/15 | | Restek, Lot A093468 | | (Purchased Reagent) | | Aramite Peak 1 | 461 ug/mL |
| | | | | | | | Aramite Peak 2 | 539 ug/mL |
| | | | | | | | Diallate Peak 1 | 882 ug/mL |
| | | | | | | | Diallate Peak 2 | 118 ug/mL |
| | | | | | | | Dimethoate | 1000 ug/mL |
| | | | | | | | Disulfoton | 1000 ug/mL |
| | | | | | | | Ethyl Parathion | 1000 ug/mL |
| | | | | | | | Methyl parathion | 1000 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 1000 ug/mL |
| | | | | | | | Phorate | 1000 ug/mL |
| | | | | | | | Safrole, Total | 1000 ug/mL |
| | | | | | | | Sulfotepp | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Thionazin | 1000 ug/mL |
| ..MS-567682_00002 | 02/28/15 | | Restek, Lot A093700 | | (Purchased Reagent) | | Methapyrilene | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-AP9A020_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 50 uL | 1,3,5-Trinitrobenzene | 20 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 20 ug/mL |
| | | | | | | | 1-Naphthylamine | 20 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 20 ug/mL |
| | | | | | | | 2-Naphthylamine | 20 ug/mL |
| | | | | | | | 2-Picoline | 20 ug/mL |
| | | | | | | | 2-Toluidine | 20 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 20 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 20 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 20 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 20 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 20 ug/mL |
| | | | | | | | Diphenylamine | 20 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 20 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 20 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 20 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 20 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 20 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 20 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 20 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 20 ug/mL |
| | | | | | | | p-Phenylene diamine | 20 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 20 ug/mL |
| | | | | | | | Phenacetin | 20 ug/mL |
| | | | | | | | Pronamide | 20 ug/mL |
| | | | | | | | 1,4-Naphthoquinone | 20 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 20 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 20 ug/mL |
| | | | | | | | Chlorobenzilate | 20 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 20 ug/mL |
| | | | | | | | Hexachloropropene | 20 ug/mL |
| | | | | | | | Isodrin | 20 ug/mL |
| | | | | | | | Methyl methanesulfonate | 20 ug/mL |
| | | | | | | | Pentachlorobenzene | 20 ug/mL |
| | | | | | | | Pentachloroethane | 20 ug/mL |
| | | | | | | | 3-Methylcholanthrene | 20 ug/mL |
| | | | | | | | Aramite Peak 1 | 9.22 ug/mL |
| | | | | | | | Aramite Peak 2 | 10.78 ug/mL |
| | | | | | | | Diallate Peak 1 | 17.64 ug/mL |
| | | | | | | | Diallate Peak 2 | 2.36 ug/mL |
| | | | | | | | Dimethoate | 20 ug/mL |
| | | | | | | | Disulfoton | 20 ug/mL |
| | | | | | | | Ethyl Parathion | 20 ug/mL |
| | | | | | | | Methyl parathion | 20 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 20 ug/mL |
| | | | | | | | Phorate | 20 ug/mL |
| | | | | | | | Safrole, Total | 20 ug/mL |
| | | | | | | | Sulfotepp | 20 ug/mL |
| | | | | | | | Thionazin | 20 ug/mL |
| | | | | | | | Methapyrilene | 20 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | MS-567680_00002 | 1 mL | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | MS-567681_00002 | 2 mL | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | MS-567682_00002 | 1 mL | Methapyrilene | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 1000 ug/mL |
| | | | | | | | 2-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Picoline | 1000 ug/mL |
| | | | | | | | 2-Toluidine | 1000 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 1000 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 1000 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 1000 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 1000 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 1000 ug/mL |
| | | | | | | | Diphenylamine | 1000 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 1000 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 1000 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 1000 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 1000 ug/mL |
| | | | | | | | p-Phenylene diamine | 1000 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 1000 ug/mL |
| | | | | | | | Phenacetin | 1000 ug/mL |
| | | | | | | | Pronamide | 1000 ug/mL |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 1,4-Naphthoquinone | 1000 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 1000 ug/mL |
| | | | | | | | Chlorobenzilate | 1000 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Hexachloropropene | 1000 ug/mL |
| | | | | | | | Isodrin | 1000 ug/mL |
| | | | | | | | Methyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Pentachlorobenzene | 1000 ug/mL |
| | | | | | | | Pentachloroethane | 1000 ug/mL |
| ..MS-567680_00002 | 02/29/16 | | Restek, Lot A093631 | | (Purchased Reagent) | | 3-Methylcholanthrene | 2000 ug/mL |
| ..MS-567681_00002 | 02/28/15 | | Restek, Lot A093468 | | (Purchased Reagent) | | Aramite Peak 1 | 461 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Aramite Peak 2 | 539 ug/mL |
| | | | | | | | Diallate Peak 1 | 882 ug/mL |
| | | | | | | | Diallate Peak 2 | 118 ug/mL |
| | | | | | | | Dimethoate | 1000 ug/mL |
| | | | | | | | Disulfoton | 1000 ug/mL |
| | | | | | | | Ethyl Parathion | 1000 ug/mL |
| | | | | | | | Methyl parathion | 1000 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 1000 ug/mL |
| | | | | | | | Phorate | 1000 ug/mL |
| | | | | | | | Safrole, Total | 1000 ug/mL |
| | | | | | | | Sulfotepp | 1000 ug/mL |
| | | | | | | | Thionazin | 1000 ug/mL |
| ..MS-567682_00002 | 02/28/15 | | Restek, Lot A093700 | | (Purchased Reagent) | | Methapyrilene | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-AP9A050_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 125 uL | 1,3,5-Trinitrobenzene | 50 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 1-Naphthylamine | 50 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 50 ug/mL |
| | | | | | | | 2-Naphthylamine | 50 ug/mL |
| | | | | | | | 2-Picoline | 50 ug/mL |
| | | | | | | | 2-Toluidine | 50 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 50 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 50 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 50 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 50 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 50 ug/mL |
| | | | | | | | Diphenylamine | 50 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 50 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 50 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 50 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 50 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 50 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 50 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 50 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 50 ug/mL |
| | | | | | | | p-Phenylene diamine | 50 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 50 ug/mL |
| | | | | | | | Phenacetin | 50 ug/mL |
| | | | | | | | Pronamide | 50 ug/mL |
| | | | | | | | 1,4-Naphthoquinone | 50 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 50 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 50 ug/mL |
| | | | | | | | Chlorobenzilate | 50 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 50 ug/mL |
| | | | | | | | Hexachloropropene | 50 ug/mL |
| | | | | | | | Isodrin | 50 ug/mL |
| | | | | | | | Methyl methanesulfonate | 50 ug/mL |
| | | | | | | | Pentachlorobenzene | 50 ug/mL |
| | | | | | | | Pentachloroethane | 50 ug/mL |
| | | | | | | | 3-Methylcholanthrene | 50 ug/mL |
| | | | | | | | Aramite Peak 1 | 23.05 ug/mL |
| | | | | | | | Aramite Peak 2 | 26.95 ug/mL |
| | | | | | | | Diallate Peak 1 | 44.1 ug/mL |
| | | | | | | | Diallate Peak 2 | 5.9 ug/mL |
| | | | | | | | Dimethoate | 50 ug/mL |
| | | | | | | | Disulfoton | 50 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Ethyl Parathion | 50 ug/mL |
| | | | | | | | Methyl parathion | 50 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 50 ug/mL |
| | | | | | | | Phorate | 50 ug/mL |
| | | | | | | | Safrole, Total | 50 ug/mL |
| | | | | | | | Sulfotepp | 50 ug/mL |
| | | | | | | | Thionazin | 50 ug/mL |
| | | | | | | | Methapyrilene | 50 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | MS-567680_00002 | 1 mL | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | MS-567681_00002 | 2 mL | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | MS-567682_00002 | 1 mL | Methapyrilene | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 1000 ug/mL |
| | | | | | | | 2-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Picoline | 1000 ug/mL |
| | | | | | | | 2-Toluidine | 1000 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 1000 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 1000 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 1000 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 1000 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 1000 ug/mL |
| | | | | | | | Diphenylamine | 1000 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 1000 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 1000 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 1000 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 1000 ug/mL |
| | | | | | | | p-Phenylene diamine | 1000 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 1000 ug/mL |
| | | | | | | | Phenacetin | 1000 ug/mL |
| | | | | | | | Pronamide | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 1,4-Naphthoquinone | 1000 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 1000 ug/mL |
| | | | | | | | Chlorobenzilate | 1000 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Hexachloropropene | 1000 ug/mL |
| | | | | | | | Isodrin | 1000 ug/mL |
| | | | | | | | Methyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Pentachlorobenzene | 1000 ug/mL |
| | | | | | | | Pentachloroethane | 1000 ug/mL |
| ..MS-567680_00002 | 02/29/16 | | Restek, Lot A093631 | | (Purchased Reagent) | | 3-Methylcholanthrene | 2000 ug/mL |
| ..MS-567681_00002 | 02/28/15 | | Restek, Lot A093468 | | (Purchased Reagent) | | Aramite Peak 1 | 461 ug/mL |
| | | | | | | | Aramite Peak 2 | 539 ug/mL |
| | | | | | | | Diallate Peak 1 | 882 ug/mL |
| | | | | | | | Diallate Peak 2 | 118 ug/mL |
| | | | | | | | Dimethoate | 1000 ug/mL |
| | | | | | | | Disulfoton | 1000 ug/mL |
| | | | | | | | Ethyl Parathion | 1000 ug/mL |
| | | | | | | | Methyl parathion | 1000 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 1000 ug/mL |
| | | | | | | | Phorate | 1000 ug/mL |
| | | | | | | | Safrole, Total | 1000 ug/mL |
| | | | | | | | Sulfotepp | 1000 ug/mL |
| | | | | | | | Thionazin | 1000 ug/mL |
| ..MS-567682_00002 | 02/28/15 | | Restek, Lot A093700 | | (Purchased Reagent) | | Methapyrilene | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-AP9A080_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 200 uL | 1,3,5-Trinitrobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 80 ug/mL |
| | | | | | | | 1-Naphthylamine | 80 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 80 ug/mL |
| | | | | | | | 2-Naphthylamine | 80 ug/mL |
| | | | | | | | 2-Picoline | 80 ug/mL |
| | | | | | | | 2-Toluidine | 80 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 80 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 80 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 80 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 80 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 80 ug/mL |
| | | | | | | | Diphenylamine | 80 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 80 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 80 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 80 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 80 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 80 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 80 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 80 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 80 ug/mL |
| | | | | | | | p-Phenylene diamine | 80 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 80 ug/mL |
| | | | | | | | Phenacetin | 80 ug/mL |
| | | | | | | | Pronamide | 80 ug/mL |
| | | | | | | | 1,4-Naphthoquinone | 80 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 80 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 80 ug/mL |
| | | | | | | | Chlorobenzilate | 80 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachloropropene | 80 ug/mL |
| | | | | | | | Isodrin | 80 ug/mL |
| | | | | | | | Methyl methanesulfonate | 80 ug/mL |
| | | | | | | | Pentachlorobenzene | 80 ug/mL |
| | | | | | | | Pentachloroethane | 80 ug/mL |
| | | | | | | | 3-Methylcholanthrene | 80 ug/mL |
| | | | | | | | Aramite Peak 1 | 36.88 ug/mL |
| | | | | | | | Aramite Peak 2 | 43.12 ug/mL |
| | | | | | | | Diallate Peak 1 | 70.56 ug/mL |
| | | | | | | | Diallate Peak 2 | 9.44 ug/mL |
| | | | | | | | Dimethoate | 80 ug/mL |
| | | | | | | | Disulfoton | 80 ug/mL |
| | | | | | | | Ethyl Parathion | 80 ug/mL |
| | | | | | | | Methyl parathion | 80 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 80 ug/mL |
| | | | | | | | Phorate | 80 ug/mL |
| | | | | | | | Safrole, Total | 80 ug/mL |
| | | | | | | | Sulfotepp | 80 ug/mL |
| | | | | | | | Thionazin | 80 ug/mL |
| | | | | | | | Methapyrilene | 80 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | MS-567680_00002 | 1 mL | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | MS-567681_00002 | 2 mL | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | MS-567682_00002 | 1 mL | Methapyrilene | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 1000 ug/mL |
| | | | | | | | 2-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Picoline | 1000 ug/mL |
| | | | | | | | 2-Toluidine | 1000 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 1000 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 1000 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 1000 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 1000 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 1000 ug/mL |
| | | | | | | | Diphenylamine | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | N-Nitro-o-toluidine | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 1000 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 1000 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 1000 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 1000 ug/mL |
| | | | | | | | p-Phenylene diamine | 1000 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 1000 ug/mL |
| | | | | | | | Phenacetin | 1000 ug/mL |
| | | | | | | | Pronamide | 1000 ug/mL |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 1,4-Naphthoquinone | 1000 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 1000 ug/mL |
| | | | | | | | Chlorobenzilate | 1000 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Hexachloropropene | 1000 ug/mL |
| | | | | | | | Isodrin | 1000 ug/mL |
| | | | | | | | Methyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Pentachlorobenzene | 1000 ug/mL |
| | | | | | | | Pentachloroethane | 1000 ug/mL |
| ..MS-567680_00002 | 02/29/16 | | Restek, Lot A093631 | | (Purchased Reagent) | | 3-Methylcholanthrene | 2000 ug/mL |
| ..MS-567681_00002 | 02/28/15 | | Restek, Lot A093468 | | (Purchased Reagent) | | Aramite Peak 1 | 461 ug/mL |
| | | | | | | | Aramite Peak 2 | 539 ug/mL |
| | | | | | | | Diallate Peak 1 | 882 ug/mL |
| | | | | | | | Diallate Peak 2 | 118 ug/mL |
| | | | | | | | Dimethoate | 1000 ug/mL |
| | | | | | | | Disulfoton | 1000 ug/mL |
| | | | | | | | Ethyl Parathion | 1000 ug/mL |
| | | | | | | | Methyl parathion | 1000 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 1000 ug/mL |
| | | | | | | | Phorate | 1000 ug/mL |
| | | | | | | | Safrole, Total | 1000 ug/mL |
| | | | | | | | Sulfotepp | 1000 ug/mL |
| | | | | | | | Thionazin | 1000 ug/mL |
| ..MS-567682_00002 | 02/28/15 | | Restek, Lot A093700 | | (Purchased Reagent) | | Methapyrilene | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-AP9A120_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 300 uL | 1,3,5-Trinitrobenzene | 120 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 120 ug/mL |
| | | | | | | | 1-Naphthylamine | 120 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 120 ug/mL |
| | | | | | | | 2-Naphthylamine | 120 ug/mL |
| | | | | | | | 2-Picoline | 120 ug/mL |
| | | | | | | | 2-Toluidine | 120 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 120 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 120 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 120 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 120 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 120 ug/mL |
| | | | | | | | Diphenylamine | 120 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 120 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 120 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 120 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 120 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 120 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | N-Nitrosopiperidine | 120 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 120 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 120 ug/mL |
| | | | | | | | p-Phenylene diamine | 120 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 120 ug/mL |
| | | | | | | | Phenacetin | 120 ug/mL |
| | | | | | | | Pronamide | 120 ug/mL |
| | | | | | | | 1,4-Naphthoquinone | 120 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 120 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 120 ug/mL |
| | | | | | | | Chlorobenzilate | 120 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 120 ug/mL |
| | | | | | | | Hexachloropropene | 120 ug/mL |
| | | | | | | | Isodrin | 120 ug/mL |
| | | | | | | | Methyl methanesulfonate | 120 ug/mL |
| | | | | | | | Pentachlorobenzene | 120 ug/mL |
| | | | | | | | Pentachloroethane | 120 ug/mL |
| | | | | | | | 3-Methylcholanthrene | 120 ug/mL |
| | | | | | | | Aramite Peak 1 | 55.32 ug/mL |
| | | | | | | | Aramite Peak 2 | 64.68 ug/mL |
| | | | | | | | Diallate Peak 1 | 105.84 ug/mL |
| | | | | | | | Diallate Peak 2 | 14.16 ug/mL |
| | | | | | | | Dimethoate | 120 ug/mL |
| | | | | | | | Disulfoton | 120 ug/mL |
| | | | | | | | Ethyl Parathion | 120 ug/mL |
| | | | | | | | Methyl parathion | 120 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 120 ug/mL |
| | | | | | | | Phorate | 120 ug/mL |
| | | | | | | | Safrole, Total | 120 ug/mL |
| | | | | | | | Sulfotepp | 120 ug/mL |
| | | | | | | | Thionazin | 120 ug/mL |
| | | | | | | | Methapyrilene | 120 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | MS-567680_00002 | 1 mL | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | MS-567681_00002 | 2 mL | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | MS-567682_00002 | 1 mL | Methapyrilene | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1-Naphthylamine | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Acetylaminofluorene | 1000 ug/mL |
| | | | | | | | 2-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Picoline | 1000 ug/mL |
| | | | | | | | 2-Toluidine | 1000 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 1000 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 1000 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 1000 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 1000 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 1000 ug/mL |
| | | | | | | | Diphenylamine | 1000 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 1000 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 1000 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 1000 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 1000 ug/mL |
| | | | | | | | p-Phenylene diamine | 1000 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 1000 ug/mL |
| | | | | | | | Phenacetin | 1000 ug/mL |
| | | | | | | | Pronamide | 1000 ug/mL |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 1,4-Naphthoquinone | 1000 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 1000 ug/mL |
| | | | | | | | Chlorobenzilate | 1000 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Hexachloropropene | 1000 ug/mL |
| | | | | | | | Isodrin | 1000 ug/mL |
| | | | | | | | Methyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Pentachlorobenzene | 1000 ug/mL |
| | | | | | | | Pentachloroethane | 1000 ug/mL |
| ..MS-567680_00002 | 02/29/16 | | Restek, Lot A093631 | | (Purchased Reagent) | | 3-Methylcholanthrene | 2000 ug/mL |
| ..MS-567681_00002 | 02/28/15 | | Restek, Lot A093468 | | (Purchased Reagent) | | Aramite Peak 1 | 461 ug/mL |
| | | | | | | | Aramite Peak 2 | 539 ug/mL |
| | | | | | | | Diallate Peak 1 | 882 ug/mL |
| | | | | | | | Diallate Peak 2 | 118 ug/mL |
| | | | | | | | Dimethoate | 1000 ug/mL |
| | | | | | | | Disulfoton | 1000 ug/mL |
| | | | | | | | Ethyl Parathion | 1000 ug/mL |
| | | | | | | | Methyl parathion | 1000 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 1000 ug/mL |
| | | | | | | | Phorate | 1000 ug/mL |
| | | | | | | | Safrole, Total | 1000 ug/mL |
| | | | | | | | Sulfotepp | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Thionazin | 1000 ug/mL |
| ..MS-567682_00002 | 02/28/15 | | Restek, Lot A093700 | | (Purchased Reagent) | | Methapyrilene | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-AP9A160_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 400 uL | 1,3,5-Trinitrobenzene | 160 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 160 ug/mL |
| | | | | | | | 1-Naphthylamine | 160 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 160 ug/mL |
| | | | | | | | 2-Naphthylamine | 160 ug/mL |
| | | | | | | | 2-Picoline | 160 ug/mL |
| | | | | | | | 2-Toluidine | 160 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 160 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 160 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 160 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 160 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 160 ug/mL |
| | | | | | | | Diphenylamine | 160 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 160 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 160 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 160 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 160 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 160 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 160 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 160 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 160 ug/mL |
| | | | | | | | p-Phenylene diamine | 160 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 160 ug/mL |
| | | | | | | | Phenacetin | 160 ug/mL |
| | | | | | | | Pronamide | 160 ug/mL |
| | | | | | | | 1,4-Naphthoquinone | 160 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 160 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 160 ug/mL |
| | | | | | | | Chlorobenzilate | 160 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 160 ug/mL |
| | | | | | | | Hexachloropropene | 160 ug/mL |
| | | | | | | | Isodrin | 160 ug/mL |
| | | | | | | | Methyl methanesulfonate | 160 ug/mL |
| | | | | | | | Pentachlorobenzene | 160 ug/mL |
| | | | | | | | Pentachloroethane | 160 ug/mL |
| | | | | | | | 3-Methylcholanthrene | 160 ug/mL |
| | | | | | | | Aramite Peak 1 | 73.76 ug/mL |
| | | | | | | | Aramite Peak 2 | 86.24 ug/mL |
| | | | | | | | Diallate Peak 1 | 141.12 ug/mL |
| | | | | | | | Diallate Peak 2 | 18.88 ug/mL |
| | | | | | | | Dimethoate | 160 ug/mL |
| | | | | | | | Disulfoton | 160 ug/mL |
| | | | | | | | Ethyl Parathion | 160 ug/mL |
| | | | | | | | Methyl parathion | 160 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 160 ug/mL |
| | | | | | | | Phorate | 160 ug/mL |
| | | | | | | | Safrole, Total | 160 ug/mL |
| | | | | | | | Sulfotepp | 160 ug/mL |
| | | | | | | | Thionazin | 160 ug/mL |
| | | | | | | | Methapyrilene | 160 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | MS-567680_00002 | 1 mL | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | MS-567681_00002 | 2 mL | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | MS-567682_00002 | 1 mL | Methapyrilene | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 1000 ug/mL |
| | | | | | | | 2-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Picoline | 1000 ug/mL |
| | | | | | | | 2-Toluidine | 1000 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 1000 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 1000 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 1000 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 1000 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 1000 ug/mL |
| | | | | | | | Diphenylamine | 1000 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 1000 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 1000 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 1000 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 1000 ug/mL |
| | | | | | | | p-Phenylene diamine | 1000 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 1000 ug/mL |
| | | | | | | | Phenacetin | 1000 ug/mL |
| | | | | | | | Pronamide | 1000 ug/mL |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 1,4-Naphthoquinone | 1000 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 1000 ug/mL |
| | | | | | | | Chlorobenzilate | 1000 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Hexachloropropene | 1000 ug/mL |
| | | | | | | | Isodrin | 1000 ug/mL |
| | | | | | | | Methyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Pentachlorobenzene | 1000 ug/mL |
| | | | | | | | Pentachloroethane | 1000 ug/mL |
| ..MS-567680_00002 | 02/29/16 | | Restek, Lot A093631 | | (Purchased Reagent) | | 3-Methylcholanthrene | 2000 ug/mL |
| ..MS-567681_00002 | 02/28/15 | | Restek, Lot A093468 | | (Purchased Reagent) | | Aramite Peak 1 | 461 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Aramite Peak 2 | 539 ug/mL |
| | | | | | | | Diallate Peak 1 | 882 ug/mL |
| | | | | | | | Diallate Peak 2 | 118 ug/mL |
| | | | | | | | Dimethoate | 1000 ug/mL |
| | | | | | | | Disulfoton | 1000 ug/mL |
| | | | | | | | Ethyl Parathion | 1000 ug/mL |
| | | | | | | | Methyl parathion | 1000 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 1000 ug/mL |
| | | | | | | | Phorate | 1000 ug/mL |
| | | | | | | | Safrole, Total | 1000 ug/mL |
| | | | | | | | Sulfotepp | 1000 ug/mL |
| | | | | | | | Thionazin | 1000 ug/mL |
| ..MS-567682_00002 | 02/28/15 | | Restek, Lot A093700 | | (Purchased Reagent) | | Methapyrilene | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-AP9A200_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 500 uL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | | | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | | | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | | | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | | | Methapyrilene | 200 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | 1,3,5-Trinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 200 ug/mL |
| | | | | | | | 2-Naphthylamine | 200 ug/mL |
| | | | | | | | 2-Picoline | 200 ug/mL |
| | | | | | | | 2-Toluidine | 200 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 200 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 200 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 200 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 200 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 200 ug/mL |
| | | | | | | | Diphenylamine | 200 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 200 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 200 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 200 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 200 ug/mL |
| | | | | | | | p-Phenylene diamine | 200 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 200 ug/mL |
| | | | | | | | Phenacetin | 200 ug/mL |
| | | | | | | | Pronamide | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 1,4-Naphthoquinone | 200 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 200 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 200 ug/mL |
| | | | | | | | Chlorobenzilate | 200 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachloropropene | 200 ug/mL |
| | | | | | | | Isodrin | 200 ug/mL |
| | | | | | | | Methyl methanesulfonate | 200 ug/mL |
| | | | | | | | Pentachlorobenzene | 200 ug/mL |
| | | | | | | | Pentachloroethane | 200 ug/mL |
| | | | | | MS-567680_00002 | 1 mL | 3-Methylcholanthrene | 200 ug/mL |
| | | | | | MS-567681_00002 | 2 mL | Aramite Peak 1 | 92.2 ug/mL |
| | | | | | | | Aramite Peak 2 | 107.8 ug/mL |
| | | | | | | | Diallate Peak 1 | 176.4 ug/mL |
| | | | | | | | Diallate Peak 2 | 23.6 ug/mL |
| | | | | | | | Dimethoate | 200 ug/mL |
| | | | | | | | Disulfoton | 200 ug/mL |
| | | | | | | | Ethyl Parathion | 200 ug/mL |
| | | | | | | | Methyl parathion | 200 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 200 ug/mL |
| | | | | | | | Phorate | 200 ug/mL |
| | | | | | | | Safrole, Total | 200 ug/mL |
| | | | | | | | Sulfotepp | 200 ug/mL |
| | | | | | | | Thionazin | 200 ug/mL |
| | | | | | MS-567682_00002 | 1 mL | Methapyrilene | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Acetylaminofluorene | 1000 ug/mL |
| | | | | | | | 2-Naphthylamine | 1000 ug/mL |
| | | | | | | | 2-Picoline | 1000 ug/mL |
| | | | | | | | 2-Toluidine | 1000 ug/mL |
| | | | | | | | 3,3'-Dimethylbenzidine | 1000 ug/mL |
| | | | | | | | 4,4'-Methylene bis(2-chloroaniline) | 1000 ug/mL |
| | | | | | | | 4-Aminobiphenyl | 1000 ug/mL |
| | | | | | | | 4-Nitroquinoline-1-oxide | 1000 ug/mL |
| | | | | | | | alpha,alpha-Dimethyl phenethylamine | 1000 ug/mL |
| | | | | | | | Diphenylamine | 1000 ug/mL |
| | | | | | | | N-Nitro-o-toluidine | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-butylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodiethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomethylethylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosomorpholine | 1000 ug/mL |
| | | | | | | | N-Nitrosopiperidine | 1000 ug/mL |
| | | | | | | | N-Nitrosopyrrolidine | 1000 ug/mL |
| | | | | | | | p-Dimethylamino azobenzene | 1000 ug/mL |
| | | | | | | | p-Phenylene diamine | 1000 ug/mL |
| | | | | | | | Pentachloronitrobenzene | 1000 ug/mL |
| | | | | | | | Phenacetin | 1000 ug/mL |
| | | | | | | | Pronamide | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 1,4-Naphthoquinone | 1000 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 7,12-Dimethylbenz(a)anthracene | 1000 ug/mL |
| | | | | | | | Chlorobenzilate | 1000 ug/mL |
| | | | | | | | Ethyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Hexachloropropene | 1000 ug/mL |
| | | | | | | | Isodrin | 1000 ug/mL |
| | | | | | | | Methyl methanesulfonate | 1000 ug/mL |
| | | | | | | | Pentachlorobenzene | 1000 ug/mL |
| | | | | | | | Pentachloroethane | 1000 ug/mL |
| ..MS-567680_00002 | 02/29/16 | | Restek, Lot A093631 | | (Purchased Reagent) | | 3-Methylcholanthrene | 2000 ug/mL |
| ..MS-567681_00002 | 02/28/15 | | Restek, Lot A093468 | | (Purchased Reagent) | | Aramite Peak 1 | 461 ug/mL |
| | | | | | | | Aramite Peak 2 | 539 ug/mL |
| | | | | | | | Diallate Peak 1 | 882 ug/mL |
| | | | | | | | Diallate Peak 2 | 118 ug/mL |
| | | | | | | | Dimethoate | 1000 ug/mL |
| | | | | | | | Disulfoton | 1000 ug/mL |
| | | | | | | | Ethyl Parathion | 1000 ug/mL |
| | | | | | | | Methyl parathion | 1000 ug/mL |
| | | | | | | | o,o',o''-Triethylphosphorothioate | 1000 ug/mL |
| | | | | | | | Phorate | 1000 ug/mL |
| | | | | | | | Safrole, Total | 1000 ug/mL |
| | | | | | | | Sulfotepp | 1000 ug/mL |
| | | | | | | | Thionazin | 1000 ug/mL |
| ..MS-567682_00002 | 02/28/15 | | Restek, Lot A093700 | | (Purchased Reagent) | | Methapyrilene | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-AP9ACCV080_00002** | 04/04/14 | 07/30/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9A_STK_00002 | 200 uL | N-Nitrosopyrrolidine | 80 ug/mL |
| | | | | | | | 2,6-Dichlorophenol | 80 ug/mL |
| .MS-AP9A_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678_00002 | 2 mL | N-Nitrosopyrrolidine | 200 ug/mL |
| | | | | | MS-567679_00003 | 2 mL | 2,6-Dichlorophenol | 200 ug/mL |
| ..MS-567678_00002 | 02/28/15 | | Restek, Lot A093629 | | (Purchased Reagent) | | N-Nitrosopyrrolidine | 1000 ug/mL |
| ..MS-567679_00003 | 02/28/15 | | Restek, Lot A093658 | | (Purchased Reagent) | | 2,6-Dichlorophenol | 1000 ug/mL |
| **MS-AP9B1SSV_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-AP9B1_STK_00001 | 250 uL | 2,6-Dichlorophenol | 100 ug/mL |
| .MS-AP9B1_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567679SEC_00001 | 2 mL | 2,6-Dichlorophenol | 200 ug/mL |
| ..MS-567679SEC_00001 | 03/31/15 | | Restek, Lot A093864 | | (Purchased Reagent) | | 2,6-Dichlorophenol | 1000 ug/mL |
| **MS-AP9B3SSV_00002** | 04/04/14 | 08/06/13 | Methylene Chloride, Lot 34862 | 0.5 mL | MS-AP9B3_STK_00002 | 250 uL | N-Nitrosopyrrolidine | 100 ug/mL |
| .MS-AP9B3_STK_00002 | 05/14/14 | 05/14/13 | Methylene Chloride, Lot 31650 | 10 mL | MS-567678SEC_00001 | 2 mL | N-Nitrosopyrrolidine | 200 ug/mL |
| ..MS-567678SEC_00001 | 04/30/15 | | Restek, Lot A095060 | | (Purchased Reagent) | | N-Nitrosopyrrolidine | 1000 ug/mL |
| **MS-BZHDA-CCV_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 200 uL | Benzaldehyde | 80 ug/mL |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| **MS-BZHDA010_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 25 uL | Benzaldehyde | 10 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-BZHDA020_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 50 uL | Benzaldehyde | 20 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-BZHDA050_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 125 uL | Benzaldehyde | 50 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-BZHDA080_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 200 uL | Benzaldehyde | 80 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-BZHDA120_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 300 uL | Benzaldehyde | 120 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-BZHDA160_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 400 uL | Benzaldehyde | 160 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-BZHDA200_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDA_STK_00001 | 500 uL | Benzaldehyde | 200 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-BZHDA_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677_00001 | 08/30/14 | | Restek, Lot A093445 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-BZHDB-SSV_00001** | 04/04/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 0.5 mL | MS-BZHDB_STK_00001 | 250 uL | Benzaldehyde | 100 ug/mL |
| .MS-BZHDB_STK_00001 | 04/30/14 | 04/30/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567677SEC_00001 | 1 mL | Benzaldehyde | 200 ug/mL |
| ..MS-567677SEC_00001 | 08/30/14 | | Restek, Lot A093656 | | (Purchased Reagent) | | Benzaldehyde | 2000 ug/mL |
| **MS-HSLA004_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 10 uL | 2,4,6-Tribromophenol (Surr) | 4 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 4 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Fluorophenol (Surr) | 4 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 4 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 4 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 4 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 4 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 4 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 4 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 4 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 4.0439 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 4 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 4 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 4 ug/mL |
| | | | | | | | 1,4-Dioxane | 4 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 4 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 4 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 4 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 4 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 4 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 4 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 4 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 8 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 4 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 4 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 4 ug/mL |
| | | | | | | | 2-Chlorophenol | 4 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 4 ug/mL |
| | | | | | | | 2-Methylphenol | 4 ug/mL |
| | | | | | | | 2-Nitroaniline | 4 ug/mL |
| | | | | | | | 2-Nitrophenol | 4 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 4 ug/mL |
| | | | | | | | 3-Nitroaniline | 4 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 8 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 4 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 4 ug/mL |
| | | | | | | | 4-Chloroaniline | 4 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 4 ug/mL |
| | | | | | | | 4-Methylphenol | 4 ug/mL |
| | | | | | | | 4-Nitroaniline | 4 ug/mL |
| | | | | | | | 4-Nitrophenol | 8 ug/mL |
| | | | | | | | Acenaphthene | 4 ug/mL |
| | | | | | | | Acenaphthylene | 4 ug/mL |
| | | | | | | | Acetophenone | 4 ug/mL |
| | | | | | | | Aniline | 4 ug/mL |
| | | | | | | | Anthracene | 4 ug/mL |
| | | | | | | | Benzo[a]anthracene | 4 ug/mL |
| | | | | | | | Benzo[a]pyrene | 4 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 4 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 4 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzo[k]fluoranthene | 4 ug/mL |
| | | | | | | | Benzyl alcohol | 4 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 4 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 4 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 4 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 4 ug/mL |
| | | | | | | | Carbazole | 4 ug/mL |
| | | | | | | | Chrysene | 4 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 4 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 4 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 4 ug/mL |
| | | | | | | | Dibenzofuran | 4 ug/mL |
| | | | | | | | Diethyl phthalate | 4 ug/mL |
| | | | | | | | Dimethyl phthalate | 4 ug/mL |
| | | | | | | | Fluoranthene | 4 ug/mL |
| | | | | | | | Fluorene | 4 ug/mL |
| | | | | | | | Hexachlorobenzene | 4 ug/mL |
| | | | | | | | Hexachlorobutadiene | 4 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 4 ug/mL |
| | | | | | | | Hexachloroethane | 4 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 4 ug/mL |
| | | | | | | | Isophorone | 4 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 4 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 4 ug/mL |
| | | | | | | | Naphthalene | 4 ug/mL |
| | | | | | | | Nitrobenzene | 4 ug/mL |
| | | | | | | | Pentachlorophenol | 8 ug/mL |
| | | | | | | | Phenanthrene | 4 ug/mL |
| | | | | | | | Phenol | 4 ug/mL |
| | | | | | | | Pyrene | 4 ug/mL |
| | | | | | | | Pyridine | 4 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 4 ug/mL |
| | | | | | | | Atrazine | 4 ug/mL |
| | | | | | | | Benzidine | 4 ug/mL |
| | | | | | | | Caprolactam | 4 ug/mL |
| | | | | | | | Benzoic acid | 8 ug/mL |
| | | | | | | | Famphur | 4 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 4 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-HSLA010_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 25 uL | 2,4,6-Tribromophenol (Surr) | 10 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 10 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 10 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 10 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 10 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 10 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 10 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 10 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 10 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 10 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 10.1097 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 10 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 10 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 10 ug/mL |
| | | | | | | | 1,4-Dioxane | 10 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 10 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 10 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 10 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 10 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 10 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 10 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 10 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 20 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 10 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 10 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 10 ug/mL |
| | | | | | | | 2-Chlorophenol | 10 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 10 ug/mL |
| | | | | | | | 2-Methylphenol | 10 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Nitroaniline | 10 ug/mL |
| | | | | | | | 2-Nitrophenol | 10 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 10 ug/mL |
| | | | | | | | 3-Nitroaniline | 10 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 20 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 10 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 10 ug/mL |
| | | | | | | | 4-Chloroaniline | 10 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 10 ug/mL |
| | | | | | | | 4-Methylphenol | 10 ug/mL |
| | | | | | | | 4-Nitroaniline | 10 ug/mL |
| | | | | | | | 4-Nitrophenol | 20 ug/mL |
| | | | | | | | Acenaphthene | 10 ug/mL |
| | | | | | | | Acenaphthylene | 10 ug/mL |
| | | | | | | | Acetophenone | 10 ug/mL |
| | | | | | | | Aniline | 10 ug/mL |
| | | | | | | | Anthracene | 10 ug/mL |
| | | | | | | | Benzo[a]anthracene | 10 ug/mL |
| | | | | | | | Benzo[a]pyrene | 10 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 10 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 10 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 10 ug/mL |
| | | | | | | | Benzyl alcohol | 10 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 10 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 10 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 10 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 10 ug/mL |
| | | | | | | | Carbazole | 10 ug/mL |
| | | | | | | | Chrysene | 10 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 10 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 10 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 10 ug/mL |
| | | | | | | | Dibenzofuran | 10 ug/mL |
| | | | | | | | Diethyl phthalate | 10 ug/mL |
| | | | | | | | Dimethyl phthalate | 10 ug/mL |
| | | | | | | | Fluoranthene | 10 ug/mL |
| | | | | | | | Fluorene | 10 ug/mL |
| | | | | | | | Hexachlorobenzene | 10 ug/mL |
| | | | | | | | Hexachlorobutadiene | 10 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 10 ug/mL |
| | | | | | | | Hexachloroethane | 10 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 10 ug/mL |
| | | | | | | | Isophorone | 10 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 10 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 10 ug/mL |
| | | | | | | | Naphthalene | 10 ug/mL |
| | | | | | | | Nitrobenzene | 10 ug/mL |
| | | | | | | | Pentachlorophenol | 20 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Phenanthrene | 10 ug/mL |
| | | | | | | | Phenol | 10 ug/mL |
| | | | | | | | Pyrene | 10 ug/mL |
| | | | | | | | Pyridine | 10 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 10 ug/mL |
| | | | | | | | Atrazine | 10 ug/mL |
| | | | | | | | Benzidine | 10 ug/mL |
| | | | | | | | Caprolactam | 10 ug/mL |
| | | | | | | | Benzoic acid | 20 ug/mL |
| | | | | | | | Famphur | 10 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 10 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-HSLA020_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 50 uL | 2,4,6-Tribromophenol (Surr) | 20 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 20 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 20 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 20 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 20 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 20 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 20 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 20 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,4-Trichlorobenzene | 20 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 20 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 20.2195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 20 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 20 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 20 ug/mL |
| | | | | | | | 1,4-Dioxane | 20 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 20 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 20 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 20 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 20 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 20 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 20 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 20 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 40 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 20 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 20 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 20 ug/mL |
| | | | | | | | 2-Chlorophenol | 20 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 20 ug/mL |
| | | | | | | | 2-Methylphenol | 20 ug/mL |
| | | | | | | | 2-Nitroaniline | 20 ug/mL |
| | | | | | | | 2-Nitrophenol | 20 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 20 ug/mL |
| | | | | | | | 3-Nitroaniline | 20 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 40 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 20 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 20 ug/mL |
| | | | | | | | 4-Chloroaniline | 20 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 20 ug/mL |
| | | | | | | | 4-Methylphenol | 20 ug/mL |
| | | | | | | | 4-Nitroaniline | 20 ug/mL |
| | | | | | | | 4-Nitrophenol | 40 ug/mL |
| | | | | | | | Acenaphthene | 20 ug/mL |
| | | | | | | | Acenaphthylene | 20 ug/mL |
| | | | | | | | Acetophenone | 20 ug/mL |
| | | | | | | | Aniline | 20 ug/mL |
| | | | | | | | Anthracene | 20 ug/mL |
| | | | | | | | Benzo[a]anthracene | 20 ug/mL |
| | | | | | | | Benzo[a]pyrene | 20 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 20 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 20 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 20 ug/mL |
| | | | | | | | Benzyl alcohol | 20 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 20 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 20 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 20 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 20 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Carbazole | 20 ug/mL |
| | | | | | | | Chrysene | 20 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 20 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 20 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 20 ug/mL |
| | | | | | | | Dibenzofuran | 20 ug/mL |
| | | | | | | | Diethyl phthalate | 20 ug/mL |
| | | | | | | | Dimethyl phthalate | 20 ug/mL |
| | | | | | | | Fluoranthene | 20 ug/mL |
| | | | | | | | Fluorene | 20 ug/mL |
| | | | | | | | Hexachlorobenzene | 20 ug/mL |
| | | | | | | | Hexachlorobutadiene | 20 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 20 ug/mL |
| | | | | | | | Hexachloroethane | 20 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 20 ug/mL |
| | | | | | | | Isophorone | 20 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 20 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 20 ug/mL |
| | | | | | | | Naphthalene | 20 ug/mL |
| | | | | | | | Nitrobenzene | 20 ug/mL |
| | | | | | | | Pentachlorophenol | 40 ug/mL |
| | | | | | | | Phenanthrene | 20 ug/mL |
| | | | | | | | Phenol | 20 ug/mL |
| | | | | | | | Pyrene | 20 ug/mL |
| | | | | | | | Pyridine | 20 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 20 ug/mL |
| | | | | | | | Atrazine | 20 ug/mL |
| | | | | | | | Benzidine | 20 ug/mL |
| | | | | | | | Caprolactam | 20 ug/mL |
| | | | | | | | Benzoic acid | 40 ug/mL |
| | | | | | | | Famphur | 20 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 20 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-HSLA050_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 125 uL | 2,4,6-Tribromophenol (Surr) | 50 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 50 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 50 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 50 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 50 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 50 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 50 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 50 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 50 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 50 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 50.5487 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 50 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 50 ug/mL |
| | | | | | | | 1,4-Dioxane | 50 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 50 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 50 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 50 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 50 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 50 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 50 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 50 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 100 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 50 ug/mL |
| | | | | | | | 2-Chlorophenol | 50 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 50 ug/mL |
| | | | | | | | 2-Methylphenol | 50 ug/mL |
| | | | | | | | 2-Nitroaniline | 50 ug/mL |
| | | | | | | | 2-Nitrophenol | 50 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 50 ug/mL |
| | | | | | | | 3-Nitroaniline | 50 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 100 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 50 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Chloro-3-methylphenol | 50 ug/mL |
| | | | | | | | 4-Chloroaniline | 50 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 50 ug/mL |
| | | | | | | | 4-Methylphenol | 50 ug/mL |
| | | | | | | | 4-Nitroaniline | 50 ug/mL |
| | | | | | | | 4-Nitrophenol | 100 ug/mL |
| | | | | | | | Acenaphthene | 50 ug/mL |
| | | | | | | | Acenaphthylene | 50 ug/mL |
| | | | | | | | Acetophenone | 50 ug/mL |
| | | | | | | | Aniline | 50 ug/mL |
| | | | | | | | Anthracene | 50 ug/mL |
| | | | | | | | Benzo[a]anthracene | 50 ug/mL |
| | | | | | | | Benzo[a]pyrene | 50 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 50 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 50 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 50 ug/mL |
| | | | | | | | Benzyl alcohol | 50 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 50 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 50 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 50 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 50 ug/mL |
| | | | | | | | Carbazole | 50 ug/mL |
| | | | | | | | Chrysene | 50 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 50 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 50 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 50 ug/mL |
| | | | | | | | Dibenzofuran | 50 ug/mL |
| | | | | | | | Diethyl phthalate | 50 ug/mL |
| | | | | | | | Dimethyl phthalate | 50 ug/mL |
| | | | | | | | Fluoranthene | 50 ug/mL |
| | | | | | | | Fluorene | 50 ug/mL |
| | | | | | | | Hexachlorobenzene | 50 ug/mL |
| | | | | | | | Hexachlorobutadiene | 50 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 50 ug/mL |
| | | | | | | | Hexachloroethane | 50 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 50 ug/mL |
| | | | | | | | Isophorone | 50 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 50 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 50 ug/mL |
| | | | | | | | Naphthalene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | Pentachlorophenol | 100 ug/mL |
| | | | | | | | Phenanthrene | 50 ug/mL |
| | | | | | | | Phenol | 50 ug/mL |
| | | | | | | | Pyrene | 50 ug/mL |
| | | | | | | | Pyridine | 50 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 50 ug/mL |
| | | | | | | | Atrazine | 50 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzidine | 50 ug/mL |
| | | | | | | | Caprolactam | 50 ug/mL |
| | | | | | | | Benzoic acid | 100 ug/mL |
| | | | | | | | Famphur | 50 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 50 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-HSLA080_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 200 uL | 2,4,6-Tribromophenol (Surr) | 80 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 80 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 80 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 80 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 80 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 80 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 80 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 80 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 80.878 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,4-Dioxane | 80 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 80 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 80 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 80 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 160 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 80 ug/mL |
| | | | | | | | 2-Chlorophenol | 80 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 80 ug/mL |
| | | | | | | | 2-Methylphenol | 80 ug/mL |
| | | | | | | | 2-Nitroaniline | 80 ug/mL |
| | | | | | | | 2-Nitrophenol | 80 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 80 ug/mL |
| | | | | | | | 3-Nitroaniline | 80 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 160 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 80 ug/mL |
| | | | | | | | 4-Chloroaniline | 80 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Methylphenol | 80 ug/mL |
| | | | | | | | 4-Nitroaniline | 80 ug/mL |
| | | | | | | | 4-Nitrophenol | 160 ug/mL |
| | | | | | | | Acenaphthene | 80 ug/mL |
| | | | | | | | Acenaphthylene | 80 ug/mL |
| | | | | | | | Acetophenone | 80 ug/mL |
| | | | | | | | Aniline | 80 ug/mL |
| | | | | | | | Anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]pyrene | 80 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 80 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 80 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 80 ug/mL |
| | | | | | | | Benzyl alcohol | 80 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 80 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 80 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 80 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 80 ug/mL |
| | | | | | | | Carbazole | 80 ug/mL |
| | | | | | | | Chrysene | 80 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 80 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 80 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 80 ug/mL |
| | | | | | | | Dibenzofuran | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Diethyl phthalate | 80 ug/mL |
| | | | | | | | Dimethyl phthalate | 80 ug/mL |
| | | | | | | | Fluoranthene | 80 ug/mL |
| | | | | | | | Fluorene | 80 ug/mL |
| | | | | | | | Hexachlorobenzene | 80 ug/mL |
| | | | | | | | Hexachlorobutadiene | 80 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 80 ug/mL |
| | | | | | | | Hexachloroethane | 80 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 80 ug/mL |
| | | | | | | | Isophorone | 80 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 80 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 80 ug/mL |
| | | | | | | | Naphthalene | 80 ug/mL |
| | | | | | | | Nitrobenzene | 80 ug/mL |
| | | | | | | | Pentachlorophenol | 160 ug/mL |
| | | | | | | | Phenanthrene | 80 ug/mL |
| | | | | | | | Phenol | 80 ug/mL |
| | | | | | | | Pyrene | 80 ug/mL |
| | | | | | | | Pyridine | 80 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 80 ug/mL |
| | | | | | | | Atrazine | 80 ug/mL |
| | | | | | | | Benzidine | 80 ug/mL |
| | | | | | | | Caprolactam | 80 ug/mL |
| | | | | | | | Benzoic acid | 160 ug/mL |
| | | | | | | | Famphur | 80 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 80 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-HSLA120_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 300 uL | 2,4,6-Tribromophenol (Surr) | 120 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 120 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 120 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 120 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 120 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 120 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 120 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 120 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 120 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 120 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 121.317 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 120 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 120 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 120 ug/mL |
| | | | | | | | 1,4-Dioxane | 120 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 120 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 120 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 120 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 120 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 120 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 120 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 120 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 240 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 120 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 120 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 120 ug/mL |
| | | | | | | | 2-Chlorophenol | 120 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 120 ug/mL |
| | | | | | | | 2-Methylphenol | 120 ug/mL |
| | | | | | | | 2-Nitroaniline | 120 ug/mL |
| | | | | | | | 2-Nitrophenol | 120 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 120 ug/mL |
| | | | | | | | 3-Nitroaniline | 120 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 240 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 120 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 120 ug/mL |
| | | | | | | | 4-Chloroaniline | 120 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 120 ug/mL |
| | | | | | | | 4-Methylphenol | 120 ug/mL |
| | | | | | | | 4-Nitroaniline | 120 ug/mL |
| | | | | | | | 4-Nitrophenol | 240 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acenaphthene | 120 ug/mL |
| | | | | | | | Acenaphthylene | 120 ug/mL |
| | | | | | | | Acetophenone | 120 ug/mL |
| | | | | | | | Aniline | 120 ug/mL |
| | | | | | | | Anthracene | 120 ug/mL |
| | | | | | | | Benzo[a]anthracene | 120 ug/mL |
| | | | | | | | Benzo[a]pyrene | 120 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 120 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 120 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 120 ug/mL |
| | | | | | | | Benzyl alcohol | 120 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 120 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 120 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 120 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 120 ug/mL |
| | | | | | | | Carbazole | 120 ug/mL |
| | | | | | | | Chrysene | 120 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 120 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 120 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 120 ug/mL |
| | | | | | | | Dibenzofuran | 120 ug/mL |
| | | | | | | | Diethyl phthalate | 120 ug/mL |
| | | | | | | | Dimethyl phthalate | 120 ug/mL |
| | | | | | | | Fluoranthene | 120 ug/mL |
| | | | | | | | Fluorene | 120 ug/mL |
| | | | | | | | Hexachlorobenzene | 120 ug/mL |
| | | | | | | | Hexachlorobutadiene | 120 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 120 ug/mL |
| | | | | | | | Hexachloroethane | 120 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 120 ug/mL |
| | | | | | | | Isophorone | 120 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 120 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 120 ug/mL |
| | | | | | | | Naphthalene | 120 ug/mL |
| | | | | | | | Nitrobenzene | 120 ug/mL |
| | | | | | | | Pentachlorophenol | 240 ug/mL |
| | | | | | | | Phenanthrene | 120 ug/mL |
| | | | | | | | Phenol | 120 ug/mL |
| | | | | | | | Pyrene | 120 ug/mL |
| | | | | | | | Pyridine | 120 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 120 ug/mL |
| | | | | | | | Atrazine | 120 ug/mL |
| | | | | | | | Benzidine | 120 ug/mL |
| | | | | | | | Caprolactam | 120 ug/mL |
| | | | | | | | Benzoic acid | 240 ug/mL |
| | | | | | | | Famphur | 120 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 120 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | Restek, Lot A093709 | | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-HSLA160_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 400 uL | 2,4,6-Tribromophenol (Surr) | 160 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 160 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 160 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 160 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 160 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 160 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 160 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 160 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 160 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 160 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 161.756 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 160 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 160 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 160 ug/mL |
| | | | | | | | 1,4-Dioxane | 160 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 160 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 160 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 160 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 160 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 160 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,4-Dichlorophenol | 160 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 160 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 320 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 160 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 160 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 160 ug/mL |
| | | | | | | | 2-Chlorophenol | 160 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 160 ug/mL |
| | | | | | | | 2-Methylphenol | 160 ug/mL |
| | | | | | | | 2-Nitroaniline | 160 ug/mL |
| | | | | | | | 2-Nitrophenol | 160 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 160 ug/mL |
| | | | | | | | 3-Nitroaniline | 160 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 320 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 160 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 160 ug/mL |
| | | | | | | | 4-Chloroaniline | 160 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 160 ug/mL |
| | | | | | | | 4-Methylphenol | 160 ug/mL |
| | | | | | | | 4-Nitroaniline | 160 ug/mL |
| | | | | | | | 4-Nitrophenol | 320 ug/mL |
| | | | | | | | Acenaphthene | 160 ug/mL |
| | | | | | | | Acenaphthylene | 160 ug/mL |
| | | | | | | | Acetophenone | 160 ug/mL |
| | | | | | | | Aniline | 160 ug/mL |
| | | | | | | | Anthracene | 160 ug/mL |
| | | | | | | | Benzo[a]anthracene | 160 ug/mL |
| | | | | | | | Benzo[a]pyrene | 160 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 160 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 160 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 160 ug/mL |
| | | | | | | | Benzyl alcohol | 160 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 160 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 160 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 160 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 160 ug/mL |
| | | | | | | | Carbazole | 160 ug/mL |
| | | | | | | | Chrysene | 160 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 160 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 160 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 160 ug/mL |
| | | | | | | | Dibenzofuran | 160 ug/mL |
| | | | | | | | Diethyl phthalate | 160 ug/mL |
| | | | | | | | Dimethyl phthalate | 160 ug/mL |
| | | | | | | | Fluoranthene | 160 ug/mL |
| | | | | | | | Fluorene | 160 ug/mL |
| | | | | | | | Hexachlorobenzene | 160 ug/mL |
| | | | | | | | Hexachlorobutadiene | 160 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachlorocyclopentadiene | 160 ug/mL |
| | | | | | | | Hexachloroethane | 160 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 160 ug/mL |
| | | | | | | | Isophorone | 160 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 160 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 160 ug/mL |
| | | | | | | | Naphthalene | 160 ug/mL |
| | | | | | | | Nitrobenzene | 160 ug/mL |
| | | | | | | | Pentachlorophenol | 320 ug/mL |
| | | | | | | | Phenanthrene | 160 ug/mL |
| | | | | | | | Phenol | 160 ug/mL |
| | | | | | | | Pyrene | 160 ug/mL |
| | | | | | | | Pyridine | 160 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 160 ug/mL |
| | | | | | | | Atrazine | 160 ug/mL |
| | | | | | | | Benzidine | 160 ug/mL |
| | | | | | | | Caprolactam | 160 ug/mL |
| | | | | | | | Benzoic acid | 320 ug/mL |
| | | | | | | | Famphur | 160 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 160 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **MS-HSLA200_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 500 uL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | | | Benzoic acid | 400 ug/mL |
| | | | | | | | Famphur | 200 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 200 ug/mL |
| | | | | | MS-IS_00005 | 50 uL | 1,4-Dichlorobenzene-d4 | 40 ug/mL |
| | | | | | | | Acenaphthene-d10 | 40 ug/mL |
| | | | | | | | Chrysene-d12 | 40 ug/mL |
| | | | | | | | Naphthalene-d8 | 40 ug/mL |
| | | | | | | | Perylene-d12 | 40 ug/mL |
| | | | | | | | Phenanthrene-d10 | 40 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dioxane | 200 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Methylphenol | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Aniline | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | | | Pyridine | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568023_00001 | 1 mL | Famphur | 200 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dioxane | 1000 ug/mL |
| | | | | | | | 1-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Methylphenol | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Aniline | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| | | | | | | | Pyridine | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568023_00001 | 04/30/15 | | Restek, Lot A094554 | | (Purchased Reagent) | | Famphur | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| .MS-IS_00005 | 04/04/14 | 04/04/13 | Methylene Chloride, Lot 14960 | 375 mL | MS-567684_00001 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00002 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00003 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00004 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00005 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00006 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00007 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00008 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00009 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00010 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00011 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00012 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00013 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00014 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| | | | | | MS-567684_00015 | 5 mL | 1,4-Dichlorobenzene-d4 | 400 ug/mL |
| | | | | | | | Acenaphthene-d10 | 400 ug/mL |
| | | | | | | | Chrysene-d12 | 400 ug/mL |
| | | | | | | | Naphthalene-d8 | 400 ug/mL |
| | | | | | | | Perylene-d12 | 400 ug/mL |
| | | | | | | | Phenanthrene-d10 | 400 ug/mL |
| ..MS-567684_00001 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00002 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00003 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00004 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00005 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00006 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00007 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00008 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00009 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00010 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00011 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00012 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00013 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00014 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| ..MS-567684_00015 | 02/28/18 | | Restek, Lot A093676 | | (Purchased Reagent) | | 1,4-Dichlorobenzene-d4 | 2000 ug/mL |
| | | | | | | | Acenaphthene-d10 | 2000 ug/mL |
| | | | | | | | Chrysene-d12 | 2000 ug/mL |
| | | | | | | | Naphthalene-d8 | 2000 ug/mL |
| | | | | | | | Perylene-d12 | 2000 ug/mL |
| | | | | | | | Phenanthrene-d10 | 2000 ug/mL |
| **MS-HSLACCV080_00003** | 04/04/14 | 07/30/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLA_STK_00001 | 200 uL | 2,4,6-Tribromophenol (Surr) | 80 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 80 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 80 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 80 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 80 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 80 ug/mL |
| | | | | | | | 1,1'-Biphenyl | 80 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 80 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 80.878 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 80 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 80 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 80 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 80 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 80 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 160 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 80 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 80 ug/mL |
| | | | | | | | 2-Chlorophenol | 80 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Methylphenol | 80 ug/mL |
| | | | | | | | 2-Nitroaniline | 80 ug/mL |
| | | | | | | | 2-Nitrophenol | 80 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 80 ug/mL |
| | | | | | | | 3-Nitroaniline | 80 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 160 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 80 ug/mL |
| | | | | | | | 4-Chloroaniline | 80 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 80 ug/mL |
| | | | | | | | 4-Nitroaniline | 80 ug/mL |
| | | | | | | | 4-Nitrophenol | 160 ug/mL |
| | | | | | | | Acenaphthene | 80 ug/mL |
| | | | | | | | Acenaphthylene | 80 ug/mL |
| | | | | | | | Acetophenone | 80 ug/mL |
| | | | | | | | Anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]anthracene | 80 ug/mL |
| | | | | | | | Benzo[a]pyrene | 80 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 80 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 80 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 80 ug/mL |
| | | | | | | | Benzyl alcohol | 80 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 80 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 80 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 80 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 80 ug/mL |
| | | | | | | | Carbazole | 80 ug/mL |
| | | | | | | | Chrysene | 80 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 80 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 80 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 80 ug/mL |
| | | | | | | | Dibenzofuran | 80 ug/mL |
| | | | | | | | Diethyl phthalate | 80 ug/mL |
| | | | | | | | Dimethyl phthalate | 80 ug/mL |
| | | | | | | | Fluoranthene | 80 ug/mL |
| | | | | | | | Fluorene | 80 ug/mL |
| | | | | | | | Hexachlorobenzene | 80 ug/mL |
| | | | | | | | Hexachlorobutadiene | 80 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 80 ug/mL |
| | | | | | | | Hexachloroethane | 80 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 80 ug/mL |
| | | | | | | | Isophorone | 80 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 80 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 80 ug/mL |
| | | | | | | | Naphthalene | 80 ug/mL |
| | | | | | | | Nitrobenzene | 80 ug/mL |
| | | | | | | | Pentachlorophenol | 160 ug/mL |
| | | | | | | | Phenanthrene | 80 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Phenol | 80 ug/mL |
| | | | | | | | Pyrene | 80 ug/mL |
| | | | | | | | 3,3'-Dichlorobenzidine | 80 ug/mL |
| | | | | | | | Atrazine | 80 ug/mL |
| | | | | | | | Benzidine | 80 ug/mL |
| | | | | | | | Caprolactam | 80 ug/mL |
| | | | | | | | Benzoic acid | 160 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 80 ug/mL |
| .MS-HSLA_STK_00001 | 04/23/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | 8270SurStkHL_00003 | 0.4 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-567672_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 200 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | MS-567673_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| | | | | | MS-567674_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-568038_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| ..8270SurStkHL_00003 | 04/23/14 | | Restek, Lot A093638 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 5000 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 5000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 5000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 5000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 5000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..MS-567672_00001 | 08/31/14 | | Restek, Lot A093709 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 1000 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| ..MS-567673_00001 | 08/31/14 | | Restek, Lot A093755 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |
| ..MS-567674_00001 | 02/29/16 | | Restek, Lot A093441 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-568038_00001 | 04/30/16 | | Restek, Lot A094629 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| **MS-HSLB1SSV_00001** | 02/28/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLB1_STK_00001 | 250 uL | 1,1'-Biphenyl | 100 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 100 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 100 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 100 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 101.097 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 100 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 100 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 72 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 100 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 100 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 100 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 100 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 100 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 100 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 100 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 100 ug/mL |
| | | | | | | | 2-Chlorophenol | 100 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 100 ug/mL |
| | | | | | | | 2-Methylphenol | 100 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Nitroaniline | 100 ug/mL |
| | | | | | | | 2-Nitrophenol | 100 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 100 ug/mL |
| | | | | | | | 3-Nitroaniline | 100 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 200 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 100 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 100 ug/mL |
| | | | | | | | 4-Chloroaniline | 100 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 100 ug/mL |
| | | | | | | | 4-Nitroaniline | 100 ug/mL |
| | | | | | | | 4-Nitrophenol | 200 ug/mL |
| | | | | | | | Acenaphthene | 100 ug/mL |
| | | | | | | | Acenaphthylene | 100 ug/mL |
| | | | | | | | Acetophenone | 100 ug/mL |
| | | | | | | | Anthracene | 100 ug/mL |
| | | | | | | | Benzo[a]anthracene | 100 ug/mL |
| | | | | | | | Benzo[a]pyrene | 100 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 100 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 100 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 100 ug/mL |
| | | | | | | | Benzyl alcohol | 100 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 100 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 100 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 100 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 100 ug/mL |
| | | | | | | | Carbazole | 100 ug/mL |
| | | | | | | | Chrysene | 100 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 100 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 100 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 100 ug/mL |
| | | | | | | | Dibenzofuran | 100 ug/mL |
| | | | | | | | Diethyl phthalate | 100 ug/mL |
| | | | | | | | Dimethyl phthalate | 100 ug/mL |
| | | | | | | | Fluoranthene | 100 ug/mL |
| | | | | | | | Fluorene | 100 ug/mL |
| | | | | | | | Hexachlorobenzene | 100 ug/mL |
| | | | | | | | Hexachlorobutadiene | 100 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 100 ug/mL |
| | | | | | | | Hexachloroethane | 100 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 100 ug/mL |
| | | | | | | | Isophorone | 100 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 100 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 100 ug/mL |
| | | | | | | | Naphthalene | 100 ug/mL |
| | | | | | | | Nitrobenzene | 100 ug/mL |
| | | | | | | | Pentachlorophenol | 200 ug/mL |
| | | | | | | | Phenanthrene | 100 ug/mL |
| | | | | | | | Phenol | 100 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Pyrene | 100 ug/mL |
| | | | | | | | Benzoic acid | 200 ug/mL |
| | | | | | | | N-Nitrosodiphenylamine | 100 ug/mL |
| | | | | | | | 2-Fluorobiphenyl | 100 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 100 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 100 ug/mL |
| | | | | | | | 2,4,6-Tribromophenol (Surr) | 100 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 100 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 100 ug/mL |
| .MS-HSLB1_STK_00001 | 02/28/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567672SEC_00001 | 2 mL | 1,1'-Biphenyl | 200 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 200 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 202.195 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 200 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 144 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 200 ug/mL |
| | | | | | | | 2,4,5-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 200 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 200 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 400 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 200 ug/mL |
| | | | | | | | 2-Chlorophenol | 200 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 200 ug/mL |
| | | | | | | | 2-Methylphenol | 200 ug/mL |
| | | | | | | | 2-Nitroaniline | 200 ug/mL |
| | | | | | | | 2-Nitrophenol | 200 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 200 ug/mL |
| | | | | | | | 3-Nitroaniline | 200 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 400 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 200 ug/mL |
| | | | | | | | 4-Chloroaniline | 200 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 200 ug/mL |
| | | | | | | | 4-Nitroaniline | 200 ug/mL |
| | | | | | | | 4-Nitrophenol | 400 ug/mL |
| | | | | | | | Acenaphthene | 200 ug/mL |
| | | | | | | | Acenaphthylene | 200 ug/mL |
| | | | | | | | Acetophenone | 200 ug/mL |
| | | | | | | | Anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]anthracene | 200 ug/mL |
| | | | | | | | Benzo[a]pyrene | 200 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 200 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzo[g,h,i]perylene | 200 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 200 ug/mL |
| | | | | | | | Benzyl alcohol | 200 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 200 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 200 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 200 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 200 ug/mL |
| | | | | | | | Carbazole | 200 ug/mL |
| | | | | | | | Chrysene | 200 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 200 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 200 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 200 ug/mL |
| | | | | | | | Dibenzofuran | 200 ug/mL |
| | | | | | | | Diethyl phthalate | 200 ug/mL |
| | | | | | | | Dimethyl phthalate | 200 ug/mL |
| | | | | | | | Fluoranthene | 200 ug/mL |
| | | | | | | | Fluorene | 200 ug/mL |
| | | | | | | | Hexachlorobenzene | 200 ug/mL |
| | | | | | | | Hexachlorobutadiene | 200 ug/mL |
| | | | | | | | Hexachlorocyclopentadiene | 200 ug/mL |
| | | | | | | | Hexachloroethane | 200 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 200 ug/mL |
| | | | | | | | Isophorone | 200 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 200 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 200 ug/mL |
| | | | | | | | Naphthalene | 200 ug/mL |
| | | | | | | | Nitrobenzene | 200 ug/mL |
| | | | | | | | Pentachlorophenol | 400 ug/mL |
| | | | | | | | Phenanthrene | 200 ug/mL |
| | | | | | | | Phenol | 200 ug/mL |
| | | | | | | | Pyrene | 200 ug/mL |
| | | | | | MS-567674SEC_00001 | 2 mL | Benzoic acid | 400 ug/mL |
| | | | | | MS-567676SEC_00001 | 1 mL | N-Nitrosodiphenylamine | 200 ug/mL |
| | | | | | MS-ISM-280N_00003 | 2 mL | 2-Fluorobiphenyl | 200 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 200 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 200 ug/mL |
| | | | | | MS-ISM-290N_00005 | 1 mL | 2,4,6-Tribromophenol (Surr) | 200 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 200 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 200 ug/mL |
| ..MS-567672SEC_00001 | 08/31/14 | | Restek, Lot A094002 | | (Purchased Reagent) | | 1,1'-Biphenyl | 1000 ug/mL |
| | | | | | | | 1,2,4,5-Tetrachlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2,4-Trichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,2-Diphenylhydrazine | 1010.97 ug/mL |
| | | | | | | | 1,3-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 1,4-Dichlorobenzene | 1000 ug/mL |
| | | | | | | | 2,2'-oxybis[1-chloropropane] | 720 ug/mL |
| | | | | | | | 2,3,4,6-Tetrachlorophenol | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,4,5-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4,6-Trichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dichlorophenol | 1000 ug/mL |
| | | | | | | | 2,4-Dimethylphenol | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrophenol | 2000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Chloronaphthalene | 1000 ug/mL |
| | | | | | | | 2-Chlorophenol | 1000 ug/mL |
| | | | | | | | 2-Methylnaphthalene | 1000 ug/mL |
| | | | | | | | 2-Methylphenol | 1000 ug/mL |
| | | | | | | | 2-Nitroaniline | 1000 ug/mL |
| | | | | | | | 2-Nitrophenol | 1000 ug/mL |
| | | | | | | | 3 & 4 Methylphenol | 1000 ug/mL |
| | | | | | | | 3-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4,6-Dinitro-2-methylphenol | 2000 ug/mL |
| | | | | | | | 4-Bromophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Chloro-3-methylphenol | 1000 ug/mL |
| | | | | | | | 4-Chloroaniline | 1000 ug/mL |
| | | | | | | | 4-Chlorophenyl phenyl ether | 1000 ug/mL |
| | | | | | | | 4-Nitroaniline | 1000 ug/mL |
| | | | | | | | 4-Nitrophenol | 2000 ug/mL |
| | | | | | | | Acenaphthene | 1000 ug/mL |
| | | | | | | | Acenaphthylene | 1000 ug/mL |
| | | | | | | | Acetophenone | 1000 ug/mL |
| | | | | | | | Anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]anthracene | 1000 ug/mL |
| | | | | | | | Benzo[a]pyrene | 1000 ug/mL |
| | | | | | | | Benzo[b]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzo[g,h,i]perylene | 1000 ug/mL |
| | | | | | | | Benzo[k]fluoranthene | 1000 ug/mL |
| | | | | | | | Benzyl alcohol | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethoxy)methane | 1000 ug/mL |
| | | | | | | | Bis(2-chloroethyl)ether | 1000 ug/mL |
| | | | | | | | Bis(2-ethylhexyl) phthalate | 1000 ug/mL |
| | | | | | | | Butyl benzyl phthalate | 1000 ug/mL |
| | | | | | | | Carbazole | 1000 ug/mL |
| | | | | | | | Chrysene | 1000 ug/mL |
| | | | | | | | Di-n-butyl phthalate | 1000 ug/mL |
| | | | | | | | Di-n-octyl phthalate | 1000 ug/mL |
| | | | | | | | Dibenz(a,h)anthracene | 1000 ug/mL |
| | | | | | | | Dibenzofuran | 1000 ug/mL |
| | | | | | | | Diethyl phthalate | 1000 ug/mL |
| | | | | | | | Dimethyl phthalate | 1000 ug/mL |
| | | | | | | | Fluoranthene | 1000 ug/mL |
| | | | | | | | Fluorene | 1000 ug/mL |
| | | | | | | | Hexachlorobenzene | 1000 ug/mL |
| | | | | | | | Hexachlorobutadiene | 1000 ug/mL |

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachlorocyclopentadiene | 1000 ug/mL |
| | | | | | | | Hexachloroethane | 1000 ug/mL |
| | | | | | | | Indeno[1,2,3-cd]pyrene | 1000 ug/mL |
| | | | | | | | Isophorone | 1000 ug/mL |
| | | | | | | | N-Nitrosodi-n-propylamine | 1000 ug/mL |
| | | | | | | | N-Nitrosodimethylamine | 1000 ug/mL |
| | | | | | | | Naphthalene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | Pentachlorophenol | 2000 ug/mL |
| | | | | | | | Phenanthrene | 1000 ug/mL |
| | | | | | | | Phenol | 1000 ug/mL |
| | | | | | | | Pyrene | 1000 ug/mL |
| ..MS-567674SEC_00001 | 02/29/16 | | Restek, Lot A093654 | | (Purchased Reagent) | | Benzoic acid | 2000 ug/mL |
| ..MS-567676SEC_00001 | 02/28/15 | | Restek, Lot A093671 | | (Purchased Reagent) | | N-Nitrosodiphenylamine | 2000 ug/mL |
| ..MS-ISM-280N_00003 | 02/28/14 | | Ultra, Lot CH-0184 | | (Purchased Reagent) | | 2-Fluorobiphenyl | 1000 ug/mL |
| | | | | | | | Nitrobenzene-d5 (Surr) | 1000 ug/mL |
| | | | | | | | Terphenyl-d14 (Surr) | 1000 ug/mL |
| ..MS-ISM-290N_00005 | 09/30/14 | | Ultra, Lot CH-2873 | | (Purchased Reagent) | | 2,4,6-Tribromophenol (Surr) | 2000 ug/mL |
| | | | | | | | 2-Fluorophenol (Surr) | 2000 ug/mL |
| | | | | | | | Phenol-d5 (Surr) | 2000 ug/mL |
| **MS-HSLB2SSV_00001** | 04/04/14 | 05/15/13 | Methylene Chloride, Lot 31650 | 0.5 mL | MS-HSLB2_STK_00001 | 250 uL | 3,3'-Dichlorobenzidine | 100 ug/mL |
| | | | | | | | Atrazine | 100 ug/mL |
| | | | | | | | Benzidine | 100 ug/mL |
| | | | | | | | Caprolactam | 100 ug/mL |
| .MS-HSLB2_STK_00001 | 04/29/14 | 04/29/13 | Methylene Chloride, Lot 14960 | 10 mL | MS-567673SEC_00001 | 1 mL | 3,3'-Dichlorobenzidine | 200 ug/mL |
| | | | | | | | Atrazine | 200 ug/mL |
| | | | | | | | Benzidine | 200 ug/mL |
| | | | | | | | Caprolactam | 200 ug/mL |
| ..MS-567673SEC_00001 | 08/31/14 | | Restek, Lot A093775 | | (Purchased Reagent) | | 3,3'-Dichlorobenzidine | 2000 ug/mL |
| | | | | | | | Atrazine | 2000 ug/mL |
| | | | | | | | Benzidine | 2000 ug/mL |
| | | | | | | | Caprolactam | 2000 ug/mL |

# Certification Summary

Client: FPM Remediations Inc
Project/Site: Griffiss AFB DP013 Bldg 255

TestAmerica Job ID: 280-45026-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica Denver | A2LA | DoD ELAP | | 2907.01 |
| TestAmerica Denver | A2LA | ISO/IEC 17025 | | 2907.01 |
| TestAmerica Denver | Alabama | State Program | 4 | 40730 |
| TestAmerica Denver | Alaska (UST) | State Program | 10 | UST-30 |
| TestAmerica Denver | Arizona | State Program | 9 | AZ0713 |
| TestAmerica Denver | Arkansas DEQ | State Program | 6 | 88-0687 |
| TestAmerica Denver | California | ELAP | 9 | 2513 |
| TestAmerica Denver | Colorado | State Program | 8 | N/A |
| TestAmerica Denver | Connecticut | State Program | 1 | PH-0686 |
| TestAmerica Denver | Florida | NELAP | 4 | E87667 |
| TestAmerica Denver | Idaho | State Program | 10 | CO00026 |
| TestAmerica Denver | Illinois | NELAP | 5 | 200017 |
| TestAmerica Denver | Iowa | State Program | 7 | 370 |
| TestAmerica Denver | Kansas | NELAP | 7 | E-10166 |
| TestAmerica Denver | Louisiana | NELAP | 6 | 02096 |
| TestAmerica Denver | Maine | State Program | 1 | CO0002 |
| TestAmerica Denver | Maryland | State Program | 3 | 268 |
| TestAmerica Denver | Minnesota | NELAP | 5 | 8-999-405 |
| TestAmerica Denver | Nevada | State Program | 9 | CO0026 |
| TestAmerica Denver | New Hampshire | NELAP | 1 | 205310 |
| TestAmerica Denver | New Jersey | NELAP | 2 | CO004 |
| TestAmerica Denver | New Mexico | State Program | 6 | CO00026 |
| TestAmerica Denver | New York | NELAP | 2 | 11964 |
| TestAmerica Denver | North Carolina DENR | State Program | 4 | 358 |
| TestAmerica Denver | North Dakota | State Program | 8 | R-034 |
| TestAmerica Denver | Oklahoma | State Program | 6 | 8614 |
| TestAmerica Denver | Oregon | NELAP | 10 | CO200001 |
| TestAmerica Denver | Pennsylvania | NELAP | 3 | 68-00664 |
| TestAmerica Denver | South Carolina | State Program | 4 | 72002 |
| TestAmerica Denver | Texas | NELAP | 6 | T104704183-08-TX |
| TestAmerica Denver | USDA | Federal | | P330-13-00202 |
| TestAmerica Denver | Utah | NELAP | 8 | CO000262012-4 |
| TestAmerica Denver | Virginia | NELAP | 3 | 460232 |
| TestAmerica Denver | Washington | State Program | 10 | C583 |
| TestAmerica Denver | West Virginia DEP | State Program | 3 | 354 |
| TestAmerica Denver | Wisconsin | State Program | 5 | 999615430 |
| TestAmerica Denver | Wyoming (UST) | A2LA | 8 | |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method 8270C DOD

## Semivolatile Compounds (GC/MS) by Method 8270/DOD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Vf-5MS (30.2 ID: 0.25 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| B255SCS0904AA | 280-45026-8 | 78 D | 84 D | 78 D | 85 D | 80 D | 89 D |
| B255SCS0908AA | 280-45026-9 | 80 | 87 | 78 | 86 | 90 | 97 |
| B255SCS0912AA | 280-45026-10 | 82 | 87 | 82 | 86 | 85 | 93 |
| B255SCS1004AA | 280-45026-11 | 79 | 81 | 78 | 80 | 84 | 91 |
| B255SCS1008AA | 280-45026-12 | 81 | 86 | 79 | 86 | 92 | 96 |
| B255SCS1012AA | 280-45026-13 | 80 | 85 | 78 | 84 | 87 | 93 |
| | MB 280-186667/1-A | 85 | 86 | 84 | 84 | 81 | 94 |
| | LCS 280-186667/2-A | 81 | 85 | 80 | 84 | 93 | 91 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 35-105 |
| PHL = Phenol-d5 (Surr) | 40-100 |
| NBZ = Nitrobenzene-d5 (Surr) | 35-100 |
| FBP = 2-Fluorobiphenyl | 45-105 |
| TBP = 2,4,6-Tribromophenol (Surr) | 35-125 |
| TPH = Terphenyl-d14 (Surr) | 30-125 |

# Column to be used to flag recovery values

FORM II 8270D/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Y5762.D

Lab ID: LCS 280-186667/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 2610 | 2080 | 80 | 45-110 | |
| 1,2-Dichlorobenzene | 2610 | 2080 | 80 | 45-95 | |
| 1,2-Diphenylhydrazine | 2630 | 2370 | 90 | 54-120 | |
| 1,3-Dichlorobenzene | 2610 | 2030 | 78 | 40-100 | |
| 1,4-Dichlorobenzene | 2610 | 2060 | 79 | 35-105 | |
| 2,2'-oxybis[1-chloropropane] | 2610 | 2030 | 78 | 20-115 | |
| 2,4,5-Trichlorophenol | 2610 | 2400 | 92 | 50-110 | |
| 2,4,6-Trichlorophenol | 2610 | 2430 | 93 | 45-110 | |
| 2,4-Dichlorophenol | 2610 | 2280 | 87 | 45-110 | |
| 2,4-Dimethylphenol | 2610 | 2270 | 87 | 30-105 | |
| 2,4-Dinitrophenol | 5210 | 4470 | 86 | 15-130 | |
| 2,4-Dinitrotoluene | 2610 | 2490 | 95 | 50-115 | |
| 2,6-Dinitrotoluene | 2610 | 2420 | 93 | 50-110 | |
| 2-Chloronaphthalene | 2610 | 2220 | 85 | 45-105 | |
| 2-Chlorophenol | 2610 | 2170 | 83 | 45-105 | |
| 2-Methylnaphthalene | 2610 | 2240 | 86 | 45-105 | |
| 2-Methylphenol | 2610 | 2220 | 85 | 40-105 | |
| 2-Nitroaniline | 2610 | 2390 | 92 | 45-120 | |
| 2-Nitrophenol | 2610 | 2240 | 86 | 40-110 | |
| 3 & 4 Methylphenol | 2610 | 2310 | 89 | 40-105 | |
| 3,3'-Dichlorobenzidine | 2610 | 1360 J | 52 | 10-130 | |
| 3-Nitroaniline | 2610 | 1460 J | 56 | 25-110 | |
| 4,6-Dinitro-2-methylphenol | 5210 | 4510 | 87 | 30-135 | |
| 4-Bromophenyl phenyl ether | 2610 | 2330 | 89 | 45-115 | |
| 4-Chloro-3-methylphenol | 2610 | 2400 | 92 | 45-115 | |
| 4-Chloroaniline | 2610 | 1230 | 47 | 10-95 | |
| 4-Chlorophenyl phenyl ether | 2610 | 2340 | 90 | 45-110 | |
| 4-Nitroaniline | 2610 | 2250 | 86 | 35-115 | |
| 4-Nitrophenol | 5210 | 4800 | 92 | 15-140 | |
| Acenaphthene | 2610 | 2310 | 89 | 45-110 | |
| Acenaphthylene | 2610 | 2290 | 88 | 45-105 | |
| Anthracene | 2610 | 2370 | 91 | 55-105 | |
| Benzo[a]anthracene | 2610 | 2410 | 92 | 50-110 | |
| Benzo[a]pyrene | 2610 | 2390 | 92 | 50-110 | |
| Benzo[b]fluoranthene | 2610 | 2590 | 99 | 45-115 | |
| Benzo[g,h,i]perylene | 2610 | 2450 | 94 | 40-125 | |
| Benzo[k]fluoranthene | 2610 | 2510 | 96 | 45-125 | |
| Benzoic acid | 2610 | 2430 | 93 | 10-110 | |
| Benzyl alcohol | 2610 | 2240 | 86 | 20-125 | |
| Bis(2-chloroethoxy)methane | 2610 | 2170 | 83 | 45-110 | |
| Bis(2-chloroethyl)ether | 2610 | 2260 | 87 | 40-105 | |
| Bis(2-ethylhexyl) phthalate | 2610 | 2740 | 105 | 45-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Y5762.D

Lab ID: LCS 280-186667/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Butyl benzyl phthalate | 2610 | 2570 | 99 | 50-125 | |
| Carbazole | 2610 | 2420 | 93 | 45-115 | |
| Chrysene | 2610 | 2390 | 92 | 55-110 | |
| Dibenz(a,h)anthracene | 2610 | 2620 | 100 | 40-125 | |
| Dibenzofuran | 2610 | 2340 | 90 | 50-105 | |
| Diethyl phthalate | 2610 | 2390 | 92 | 50-115 | |
| Dimethyl phthalate | 2610 | 2450 | 94 | 50-110 | |
| Di-n-butyl phthalate | 2610 | 2460 | 94 | 55-110 | |
| Di-n-octyl phthalate | 2610 | 2600 | 100 | 40-130 | |
| Fluoranthene | 2610 | 2400 | 92 | 55-115 | |
| Fluorene | 2610 | 2380 | 91 | 50-110 | |
| Hexachlorobenzene | 2610 | 2300 | 88 | 45-120 | |
| Hexachlorobutadiene | 2610 | 2000 | 77 | 40-115 | |
| Hexachlorocyclopentadiene | 2610 | 1880 | 72 | 35-123 | |
| Hexachloroethane | 2610 | 2000 | 77 | 35-110 | |
| Indeno[1,2,3-cd]pyrene | 2610 | 2450 | 94 | 40-120 | M |
| Isophorone | 2610 | 2120 | 81 | 45-110 | |
| Naphthalene | 2610 | 2140 | 82 | 40-105 | |
| Nitrobenzene | 2610 | 2100 | 81 | 40-115 | |
| N-Nitrosodimethylamine | 2610 | 1940 | 75 | 20-115 | |
| N-Nitrosodi-n-propylamine | 2610 | 2210 | 85 | 40-115 | |
| N-Nitrosodiphenylamine | 2610 | 2230 | 86 | 50-115 | |
| Pentachlorophenol | 5210 | 4840 | 93 | 25-120 | |
| Phenanthrene | 2610 | 2410 | 92 | 50-110 | |
| Phenol | 2610 | 2250 | 86 | 40-100 | |
| Pyrene | 2610 | 2470 | 95 | 45-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D/DoD

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab File ID: Y5761.D Lab Sample ID: MB 280-186667/1-A

Matrix: Solid Date Extracted: 08/09/2013 19:55

Instrument ID: SMS_Y Date Analyzed: 08/14/2013 13:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 280-186667/2-A | Y5762.D | 08/14/2013 14:22 |
| B255SCS0904AA | 280-45026-8 | Y5774.D | 08/14/2013 19:39 |
| B255SCS0908AA | 280-45026-9 | Y5775.D | 08/14/2013 20:06 |
| B255SCS0912AA | 280-45026-10 | Y5776.D | 08/14/2013 20:32 |
| B255SCS1004AA | 280-45026-11 | Y5777.D | 08/14/2013 20:59 |
| B255SCS1008AA | 280-45026-12 | Y5778.D | 08/14/2013 21:25 |
| B255SCS1012AA | 280-45026-13 | Y5779.D | 08/14/2013 21:52 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab File ID: Y4751.D DFTPP Injection Date: 06/03/2013

Instrument ID: SMS_Y DFTPP Injection Time: 13:17

Analysis Batch No.: 177034

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 39.8 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 39.6 | |
| 70 | Less than 2.0 % of mass 69 | 0.2 | (0.6)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 52.2 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 6.9 | |
| 275 | 10.0 - 30.0 % of mass 198 | 27.9 | |
| 365 | Greater than 1.0 % of mass 198 | 4.1 | |
| 441 | Present but less than mass 443 | 13.9 | (74.0)3 |
| 442 | Greater than 40.0 % of mass 198 | 95.0 | |
| 443 | 17.0 - 23.0 % of mass 442 | 18.7 | (19.7)2 |

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 280-177034/11 | Y4760.D | 06/03/2013 | 17:14 |
| | IC 280-177034/12 | Y4761.D | 06/03/2013 | 17:43 |
| | IC 280-177034/13 | Y4762.D | 06/03/2013 | 18:11 |
| | IC 280-177034/14 | Y4763.D | 06/03/2013 | 18:39 |
| | IC 280-177034/15 | Y4764.D | 06/03/2013 | 19:07 |
| | IC 280-177034/16 | Y4765.D | 06/03/2013 | 19:35 |
| | IC 280-177034/17 | Y4766.D | 06/03/2013 | 20:03 |
| | ICV 280-177034/18 | Y4767.D | 06/03/2013 | 20:32 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab File ID: Y5007.D DFTPP Injection Date: 06/17/2013

Instrument ID: SMS_Y DFTPP Injection Time: 07:17

Analysis Batch No.: 179033

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 36.4 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 37.7 | |
| 70 | Less than 2.0 % of mass 69 | 0.1 | (0.2)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 50.4 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 6.9 | |
| 275 | 10.0 - 30.0 % of mass 198 | 27.2 | |
| 365 | Greater than 1.0 % of mass 198 | 3.1 | |
| 441 | Present but less than mass 443 | 13.0 | (73.6)3 |
| 442 | Greater than 40.0 % of mass 198 | 90.7 | |
| 443 | 17.0 - 23.0 % of mass 442 | 17.7 | (19.5)2 |

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | ICIS 280-179033/2 | Y5008.D | 06/17/2013 | 07:29 |
| | IC 280-179033/3 | Y5009.D | 06/17/2013 | 07:55 |
| | IC 280-179033/4 | Y5010.D | 06/17/2013 | 08:22 |
| | IC 280-179033/5 | Y5011.D | 06/17/2013 | 08:48 |
| | IC 280-179033/6 | Y5012.D | 06/17/2013 | 09:14 |
| | IC 280-179033/7 | Y5013.D | 06/17/2013 | 09:40 |
| | IC 280-179033/8 | Y5014.D | 06/17/2013 | 10:06 |
| | IC 280-179033/9 | Y5015.D | 06/17/2013 | 10:33 |
| | ICV 280-179033/10 | Y5016.D | 06/17/2013 | 10:59 |
| | ICV 280-179033/11 | Y5017.D | 06/17/2013 | 11:26 |
| | ICV 280-179033/12 | Y5018.D | 06/17/2013 | 11:52 |
| | ICV 280-179033/13 | Y5019.D | 06/17/2013 | 12:18 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab File ID: Y5633.D DFTPP Injection Date: 08/06/2013

Instrument ID: SMS_Y DFTPP Injection Time: 08:01

Analysis Batch No.: 185961

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 36.8 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 40.5 | |
| 70 | Less than 2.0 % of mass 69 | 0.2 | (0.5)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 53.6 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 7.3 | |
| 275 | 10.0 - 30.0 % of mass 198 | 25.9 | |
| 365 | Greater than 1.0 % of mass 198 | 2.4 | |
| 441 | Present but less than mass 443 | 11.8 | (71.6)3 |
| 442 | Greater than 40.0 % of mass 198 | 86.2 | |
| 443 | 17.0 - 23.0 % of mass 442 | 16.5 | (19.1)2 |

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 280-185961/2 | Y5634.D | 08/06/2013 | 08:19 |
| | IC 280-185961/3 | Y5635.D | 08/06/2013 | 08:45 |
| | IC 280-185961/4 | Y5636.D | 08/06/2013 | 09:12 |
| | IC 280-185961/5 | Y5637.D | 08/06/2013 | 09:38 |
| | IC 280-185961/6 | Y5638.D | 08/06/2013 | 10:04 |
| | IC 280-185961/7 | Y5639.D | 08/06/2013 | 10:31 |
| | IC 280-185961/8 | Y5640.D | 08/06/2013 | 10:57 |
| | ICV 280-185961/9 | Y5641.D | 08/06/2013 | 11:23 |
| | ICV 280-185961/10 | Y5642.D | 08/06/2013 | 11:50 |
| | ICV 280-185961/11 | Y5643.D | 08/06/2013 | 12:16 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab File ID: Y5753.D DFTPP Injection Date: 08/14/2013

Instrument ID: SMS_Y DFTPP Injection Time: 10:38

Analysis Batch No.: 187134

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0 - 60.0 % of mass 198 | 34.9 | |
| 68 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 36.9 | |
| 70 | Less than 2.0 % of mass 69 | 0.2 | (0.4)1 |
| 127 | 40.0 - 60.0 % of mass 198 | 48.5 | |
| 197 | Less than 1.0 % of mass 198 | 0.0 | |
| 198 | Base Peak, 100 % relative abundance | 100.0 | |
| 199 | 5.0- 9.0 % of mass 198 | 7.0 | |
| 275 | 10.0 - 30.0 % of mass 198 | 26.4 | |
| 365 | Greater than 1.0 % of mass 198 | 2.8 | |
| 441 | Present but less than mass 443 | 14.6 | (77.0)3 |
| 442 | Greater than 40.0 % of mass 198 | 98.8 | |
| 443 | 17.0 - 23.0 % of mass 442 | 18.9 | (19.2)2 |

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 280-187134/4 | Y5754.D | 08/14/2013 | 10:50 |
| | CCV 280-187134/5 | Y5755.D | 08/14/2013 | 11:19 |
| | CCV 280-187134/6 | Y5756.D | 08/14/2013 | 11:45 |
| | MB 280-186667/1-A | Y5761.D | 08/14/2013 | 13:55 |
| | LCS 280-186667/2-A | Y5762.D | 08/14/2013 | 14:22 |
| B255SCS0904AA | 280-45026-8 | Y5774.D | 08/14/2013 | 19:39 |
| B255SCS0908AA | 280-45026-9 | Y5775.D | 08/14/2013 | 20:06 |
| B255SCS0912AA | 280-45026-10 | Y5776.D | 08/14/2013 | 20:32 |
| B255SCS1004AA | 280-45026-11 | Y5777.D | 08/14/2013 | 20:59 |
| B255SCS1008AA | 280-45026-12 | Y5778.D | 08/14/2013 | 21:25 |
| B255SCS1012AA | 280-45026-13 | Y5779.D | 08/14/2013 | 21:52 |

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Sample No.: ICIS 280-179033/2 Date Analyzed: 06/17/2013 07:29

Instrument ID: SMS_Y GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): Y5008.D Heated Purge: (Y/N) N

Calibration ID: 14482

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 307554 | 4.20 | 1176600 | 5.23 | 692031 | 6.69 |
| UPPER LIMIT | | 615108 | 4.70 | 2353200 | 5.73 | 1384062 | 7.19 |
| LOWER LIMIT | | 153777 | 3.70 | 588300 | 4.73 | 346016 | 6.19 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 280-179033/10 | | 279754 | 4.20 | 1068832 | 5.23 | 636182 | 6.70 |
| ICV 280-179033/11 | | 304269 | 4.20 | 1163655 | 5.23 | 691267 | 6.70 |
| ICV 280-179033/12 | | 277469 | 4.20 | 1064116 | 5.23 | 626664 | 6.70 |
| ICV 280-179033/13 | | 304595 | 4.20 | 1180811 | 5.23 | 698117 | 6.69 |
| CCV 280-187134/4 | | 318457 | 4.15 | 1226028 | 5.19 | 735626 | 6.66 |
| CCV 280-187134/5 | | 307343 | 4.15 | 1183338 | 5.19 | 706518 | 6.66 |
| CCV 280-187134/6 | | 302304 | 4.15 | 1163515 | 5.19 | 698772 | 6.66 |
| MB 280-186667/1-A | | 315079 | 4.15 | 1210986 | 5.19 | 718925 | 6.66 |
| LCS 280-186667/2-A | | 315262 | 4.15 | 1238396 | 5.20 | 734027 | 6.66 |
| 280-45026-8 | B255SCS0904AA | 298662 | 4.15 | 1153238 | 5.19 | 686083 | 6.66 |
| 280-45026-9 | B255SCS0908AA | 311631 | 4.15 | 1196058 | 5.19 | 710670 | 6.66 |
| 280-45026-10 | B255SCS0912AA | 309899 | 4.15 | 1195100 | 5.19 | 711605 | 6.66 |
| 280-45026-11 | B255SCS1004AA | 312059 | 4.15 | 1210743 | 5.19 | 719563 | 6.66 |
| 280-45026-12 | B255SCS1008AA | 318453 | 4.15 | 1217025 | 5.19 | 725864 | 6.66 |
| 280-45026-13 | B255SCS1012AA | 320681 | 4.15 | 1216347 | 5.19 | 733318 | 6.66 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Sample No.: ICIS 280-179033/2 Date Analyzed: 06/17/2013 07:29

Instrument ID: SMS_Y GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): Y5008.D Heated Purge: (Y/N) N

Calibration ID: 14482

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1167849 | 7.95 | 1343489 | 11.39 | 1314320 | 15.20 |
| UPPER LIMIT | | 2335698 | 8.45 | 2686978 | 11.89 | 2628640 | 15.70 |
| LOWER LIMIT | | 583925 | 7.45 | 671745 | 10.89 | 657160 | 14.70 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 280-179033/10 | | 1064814 | 7.95 | 1267293 | 11.39 | 1216974 | 15.21 |
| ICV 280-179033/11 | | 1191546 | 7.95 | 1400220 | 11.38 | 1333113 | 15.21 |
| ICV 280-179033/12 | | 1079675 | 7.95 | 1225001 | 11.38 | 1225543 | 15.21 |
| ICV 280-179033/13 | | 1170214 | 7.95 | 1336279 | 11.38 | 1283597 | 15.21 |
| CCV 280-187134/4 | | 1240467 | 7.91 | 1384571 | 11.29 | 1336593 | 15.07 |
| CCV 280-187134/5 | | 1194283 | 7.91 | 1311900 | 11.29 | 1257975 | 15.07 |
| CCV 280-187134/6 | | 1199958 | 7.91 | 1318351 | 11.28 | 1298963 | 15.06 |
| MB 280-186667/1-A | | 1232433 | 7.91 | 1368260 | 11.29 | 1306229 | 15.06 |
| LCS 280-186667/2-A | | 1231530 | 7.92 | 1377278 | 11.29 | 1267192 | 15.07 |
| 280-45026-8 | B255SCS0904AA | 1162087 | 7.91 | 1248391 | 11.29 | 1208822 | 15.06 |
| 280-45026-9 | B255SCS0908AA | 1175387 | 7.91 | 1266429 | 11.29 | 1244384 | 15.07 |
| 280-45026-10 | B255SCS0912AA | 1206532 | 7.91 | 1271525 | 11.29 | 1219404 | 15.07 |
| 280-45026-11 | B255SCS1004AA | 1216241 | 7.91 | 1260833 | 11.29 | 1223950 | 15.06 |
| 280-45026-12 | B255SCS1008AA | 1233274 | 7.91 | 1271787 | 11.29 | 1222131 | 15.06 |
| 280-45026-13 | B255SCS1012AA | 1221297 | 7.91 | 1255806 | 11.29 | 1225891 | 15.07 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0904AA | Lab Sample ID: 280-45026-8

Matrix: Solid | Lab File ID: Y5774.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 14:50

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.5(g) | Date Analyzed: 08/14/2013 19:39

Con. Extract Vol.: 1000(uL) | Dilution Factor: 4

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 780 | U | 1500 | 780 | 230 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 310 | U | 1500 | 310 | 230 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 150 | U | 1500 | 150 | 130 |
| 95-50-1 | 1,2-Dichlorobenzene | 150 | U | 1500 | 150 | 100 |
| 122-66-7 | 1,2-Diphenylhydrazine | 150 | U | 1500 | 150 | 100 |
| 541-73-1 | 1,3-Dichlorobenzene | 150 | U | 1500 | 150 | 56 |
| 106-46-7 | 1,4-Dichlorobenzene | 150 | U | 1500 | 150 | 64 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 150 | U | 1500 | 150 | 110 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 780 | U | 7500 | 780 | 640 |
| 95-95-4 | 2,4,5-Trichlorophenol | 610 | U | 1500 | 610 | 47 |
| 88-06-2 | 2,4,6-Trichlorophenol | 310 | U | 1500 | 310 | 47 |
| 120-83-2 | 2,4-Dichlorophenol | 310 | U | 1500 | 310 | 47 |
| 105-67-9 | 2,4-Dimethylphenol | 610 | U | 1500 | 610 | 310 |
| 51-28-5 | 2,4-Dinitrophenol | 3100 | U | 7500 | 3100 | 1600 |
| 121-14-2 | 2,4-Dinitrotoluene | 610 | U | 1500 | 610 | 310 |
| 87-65-0 | 2,6-Dichlorophenol | 610 | U | 1500 | 610 | 320 |
| 606-20-2 | 2,6-Dinitrotoluene | 310 | U | 1500 | 310 | 130 |
| 91-58-7 | 2-Chloronaphthalene | 150 | U | 1500 | 150 | 47 |
| 95-57-8 | 2-Chlorophenol | 150 | U | 1500 | 150 | 98 |
| 91-57-6 | 2-Methylnaphthalene | 150 | U | 1500 | 150 | 89 |
| 95-48-7 | 2-Methylphenol | 150 | U | 1500 | 150 | 61 |
| 88-74-4 | 2-Nitroaniline | 310 | U | 7500 | 310 | 230 |
| 88-75-5 | 2-Nitrophenol | 310 | U | 1500 | 310 | 47 |
| 15831-10-4 | 3 & 4 Methylphenol | 310 | U | 1500 | 310 | 150 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1500 | U | 7500 | 1500 | 420 |
| 99-09-2 | 3-Nitroaniline | 620 | U | 7500 | 620 | 340 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3100 | U | 7500 | 3100 | 1500 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 150 | U | 1500 | 150 | 89 |
| 59-50-7 | 4-Chloro-3-methylphenol | 610 | U | 1500 | 610 | 310 |
| 106-47-8 | 4-Chloroaniline | 610 | U | 1500 | 610 | 380 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 310 | U | 1500 | 310 | 98 |
| 100-01-6 | 4-Nitroaniline | 610 | U | 7500 | 610 | 340 |
| 100-02-7 | 4-Nitrophenol | 1500 | U | 7500 | 1500 | 450 |
| 83-32-9 | Acenaphthene | 80 | U | 1500 | 80 | 48 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0904AA | Lab Sample ID: 280-45026-8

Matrix: Solid | Lab File ID: Y5774.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 14:50

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.5(g) | Date Analyzed: 08/14/2013 19:39

Con. Extract Vol.: 1000(uL) | Dilution Factor: 4

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 110 | J | 1500 | 150 | 80 |
| 98-86-2 | Acetophenone | 150 | U | 1500 | 150 | 94 |
| 120-12-7 | Anthracene | 160 | J | 1500 | 150 | 80 |
| 1912-24-9 | Atrazine | 610 | U | 1500 | 610 | 170 |
| 100-52-7 | Benzaldehyde | 310 | U | 1500 | 310 | 180 |
| 92-87-5 | Benzidine | 19000 | U | 19000 | 19000 | 4600 |
| 56-55-3 | Benzo[a]anthracene | 530 | J | 1500 | 150 | 94 |
| 50-32-8 | Benzo[a]pyrene | 430 | J | 1500 | 150 | 94 |
| 205-99-2 | Benzo[b]fluoranthene | 680 | J | 1500 | 150 | 120 |
| 191-24-2 | Benzo[g,h,i]perylene | 250 | J | 1500 | 150 | 75 |
| 207-08-9 | Benzo[k]fluoranthene | 310 | U | 1500 | 310 | 190 |
| 65-85-0 | Benzoic acid | 3100 | U | 7500 | 3100 | 1500 |
| 100-51-6 | Benzyl alcohol | 150 | U | 1500 | 150 | 47 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 310 | U | 1500 | 310 | 110 |
| 111-44-4 | Bis(2-chloroethyl)ether | 150 | U | 1500 | 150 | 78 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 310 | U | 1500 | 310 | 220 |
| 85-68-7 | Butyl benzyl phthalate | 310 | U | 1500 | 310 | 200 |
| 105-60-2 | Caprolactam | 1500 | U | 7500 | 1500 | 500 |
| 86-74-8 | Carbazole | 310 | U | 1500 | 310 | 170 |
| 218-01-9 | Chrysene | 630 | J | 1500 | 150 | 130 |
| 53-70-3 | Dibenz(a,h)anthracene | 150 | U | 1500 | 150 | 89 |
| 132-64-9 | Dibenzofuran | 150 | U | 1500 | 150 | 94 |
| 84-66-2 | Diethyl phthalate | 150 | U | 3100 | 150 | 120 |
| 131-11-3 | Dimethyl phthalate | 400 | J | 1500 | 150 | 110 |
| 84-74-2 | Di-n-butyl phthalate | 150 | U | 1500 | 150 | 140 |
| 117-84-0 | Di-n-octyl phthalate | 310 | U | 1500 | 310 | 68 |
| 206-44-0 | Fluoranthene | 1000 | J | 1500 | 310 | 170 |
| 86-73-7 | Fluorene | 150 | U | 1500 | 150 | 84 |
| 118-74-1 | Hexachlorobenzene | 310 | U | 1500 | 310 | 140 |
| 87-68-3 | Hexachlorobutadiene | 310 | U | 1500 | 310 | 47 |
| 77-47-4 | Hexachlorocyclopentadiene | 310 | U | 8000 | 310 | 230 |
| 67-72-1 | Hexachloroethane | 150 | U | 1500 | 150 | 100 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 260 | J | 1500 | 150 | 100 |
| 78-59-1 | Isophorone | 150 | U | 1500 | 150 | 80 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0904AA | Lab Sample ID: 280-45026-8

Matrix: Solid | Lab File ID: Y5774.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 14:50

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.5(g) | Date Analyzed: 08/14/2013 19:39

Con. Extract Vol.: 1000(uL) | Dilution Factor: 4

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 310 | U | 1500 | 310 | 150 |
| 98-95-3 | Nitrobenzene | 150 | U | 1500 | 150 | 100 |
| 62-75-9 | N-Nitrosodimethylamine | 310 | U | 2400 | 310 | 170 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 310 | U | 1500 | 310 | 150 |
| 86-30-6 | N-Nitrosodiphenylamine | 150 | U | 1500 | 150 | 98 |
| 930-55-2 | N-Nitrosopyrrolidine | 610 | U | 1500 | 610 | 300 |
| 87-86-5 | Pentachlorophenol | 3100 | U | 7500 | 3100 | 1500 |
| 85-01-8 | Phenanthrene | 810 | J | 1500 | 150 | 80 |
| 108-95-2 | Phenol | 150 | U | 1500 | 150 | 84 |
| 129-00-0 | Pyrene | 1200 | J | 1900 | 150 | 57 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 80 | D | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 85 | D | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 78 | D | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 78 | D | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 84 | D | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 89 | D | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D
Lims ID: 280-45026-B-8-A
Client ID: B255SCS0904AA
Inject. Date: 14-Aug-2013 19:39:30
Dil. Factor: 4.0000
Sample Type: Client
Sample ID: 280-45026-b-8-a 4X-VIS
Misc. Info.: 186667 =186667
Operator: hoffmanm
Instrument ID: SMS_Y
Injection Vol: 0.5 ul
ALS Bottle#: 22
Lims Batch ID: 187134
Lims Sample ID: 24
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41
Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE
ID Type: Deconvolution ID
Column Type: VF-5ms
Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm
Date: 15-Aug-2013 09:51:23

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.153 | 4.149 | 0.004 | 95 | 298662 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.192 | 5.189 | 0.003 | 99 | 1153238 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.655 | 6.658 | -0.003 | 91 | 686083 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.913 | 7.909 | 0.004 | 97 | 1162087 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.291 | 11.288 | 0.003 | 81 | 1248391 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.063 | 15.060 | 0.003 | 98 | 1208822 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.124 | 3.127 | 0.001 | 89 | 212510 | 19.5 | |
| $ 8 Phenol-d5 | 99 | 3.835 | 3.839 | 0.001 | 82 | 280348 | 21.0 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.599 | 4.609 | -0.005 | 88 | 224138 | 19.6 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.074 | 6.072 | 0.002 | 99 | 467871 | 21.2 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.325 | 7.324 | 0.001 | 91 | 95211 | 20.0 | |
| $ 13 Terphenyl-d14 | 244 | 9.458 | 9.457 | 0.001 | 98 | 560989 | 22.3 | |
| 28 N-Nitrosodimethylamine | 74 | | 2.106 | | | | | |
| 39 Benzaldehyde | 106 | | 3.811 | | | | | |
| 40 Phenol | 94 | | 3.846 | | | | | |
| 45 Bis(2-chloroethyl)ether | 93 | | 3.922 | | | | | |
| 48 2-Chlorophenol | 128 | | 3.987 | | | | | |
| 49 1,3-Dichlorobenzene | 146 | | 4.104 | | | | | |
| 50 1,4-Dichlorobenzene | 146 | | 4.163 | | | | | |
| 51 Benzyl alcohol | 108 | | 4.251 | | | | | 9 |
| 52 1,2-Dichlorobenzene | 146 | | 4.292 | | | | | |
| 54 2-Methylphenol | 108 | | 4.327 | | | | | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | | 4.339 | | | | | 9 |
| 60 3 & 4 Methylphenol | 108 | | 4.451 | | | | | |
| 61 N-Nitrosodi-n-propylamine | 70 | | 4.451 | | | | | |
| 62 N-Nitrosopyrrolidine | 100 | | 4.460 | | | | | |
| 63 Acetophenone | 105 | | 4.468 | | | | | |
| 66 Hexachloroethane | 117 | | 4.562 | | | | | |
| 67 Nitrobenzene | 77 | | 4.615 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 Isophorone | 82 | | 4.797 | | | | | 9 |
| 73 2,4-Dimethylphenol | 107 | | 4.880 | | | | | |
| 74 2-Nitrophenol | 139 | | 4.874 | | | | | |
| 77 Benzoic acid | 105 | | 4.974 | | | | | 9 |
| 78 Bis(2-chloroethoxy)methane | 93 | | 4.956 | | | | | |
| 82 2,4-Dichlorophenol | 162 | | 5.068 | | | | | |
| 84 1,2,4-Trichlorobenzene | 180 | | 5.138 | | | | | |
| 87 Naphthalene | 128 | | 5.209 | | | | | 9 |
| 88 4-Chloroaniline | 127 | | 5.250 | | | | | |
| 89 2,6-Dichlorophenol | 162 | | 5.254 | | | | | |
| 91 Hexachlorobutadiene | 225 | | 5.285 | | | | | |
| 94 Caprolactam | 55 | | 5.538 | | | | | |
| 97 4-Chloro-3-methylphenol | 107 | | 5.632 | | | | | |
| 101 2-Methylnaphthalene | 142 | | 5.773 | | | | | 9 |
| 105 Hexachlorocyclopentadiene | 237 | | 5.896 | | | | | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | | 5.914 | | | | | |
| 108 2,4,6-Trichlorophenol | 196 | | 6.008 | | | | | |
| 110 2,4,5-Trichlorophenol | 196 | | 6.043 | | | | | |
| 112 1,1'-Biphenyl | 154 | | 6.161 | | | | | |
| 114 2-Chloronaphthalene | 162 | | 6.190 | | | | | |
| 116 2-Nitroaniline | 65 | | 6.278 | | | | | 9 |
| 119 Dimethyl phthalate | 163 | 6.397 | 6.396 | 0.001 | 95 | 53271 | 2.56 | |
| 121 2,6-Dinitrotoluene | 165 | | 6.466 | | | | | 9 |
| 122 Acenaphthylene | 152 | 6.544 | 6.542 | 0.002 | 83 | 20822 | 0.7057 | |
| 123 3-Nitroaniline | 138 | | 6.625 | | | | | |
| 124 Acenaphthene | 153 | | 6.683 | | | | | |
| 126 2,4-Dinitrophenol | 184 | | 6.707 | | | | | |
| 127 4-Nitrophenol | 109 | | 6.760 | | | | | 9 |
| 130 2,4-Dinitrotoluene | 165 | | 6.807 | | | | | |
| 132 Dibenzofuran | 168 | | 6.824 | | | | | 9 |
| 134 2,3,4,6-Tetrachlorophenol | 232 | | 6.924 | | | | | |
| 139 Diethyl phthalate | 149 | | 6.977 | | | | | |
| 142 4-Chlorophenyl phenyl ether | 204 | | 7.095 | | | | | |
| 143 Fluorene | 166 | 7.114 | 7.112 | 0.002 | 60 | 10844 | 0.5095 | |
| 146 4-Nitroaniline | 138 | | 7.148 | | | | | |
| 147 4,6-Dinitro-2-methylphenol | 198 | | 7.153 | | | | | |
| 150 N-Nitrosodiphenylamine | 169 | | 7.200 | | | | | 9 |
| 151 1,2-Diphenylhydrazine | 77 | | 7.230 | | | | | 9 |
| 164 4-Bromophenyl phenyl ether | 248 | | 7.506 | | | | | |
| 165 Hexachlorobenzene | 284 | | 7.577 | | | | | |
| 167 Atrazine | 200 | | 7.624 | | | | | |
| 171 Pentachlorophenol | 266 | | 7.747 | | | | | |
| 176 Phenanthrene | 178 | 7.930 | 7.936 | 0.001 | 98 | 156955 | 5.21 | |
| 177 Anthracene | 178 | 7.972 | 7.982 | -0.004 | 91 | 31777 | 1.03 | |
| 178 Carbazole | 167 | | 8.111 | | | | | |
| 181 Di-n-butyl phthalate | 149 | | 8.329 | | | | | 9 |
| 188 Fluoranthene | 202 | 9.035 | 9.040 | 0.001 | 97 | 214632 | 6.48 | |
| 189 Benzidine | 184 | | 9.175 | | | | | |
| 191 Pyrene | 202 | 9.311 | 9.316 | 0.001 | 96 | 240844 | 7.44 | |
| 198 Butyl benzyl phthalate | 149 | | 10.150 | | | | | 9 |
| 203 Bis(2-ethylhexyl) phthalate | 149 | | 11.213 | | | | | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.225 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 206 Benzo[a]anthracene | 228 | 11.262 | 11.260 | 0.002 | 86 | 103482 | 3.37 | |
| 207 Chrysene | 228 | 11.344 | 11.343 | 0.001 | 93 | 118411 | 4.05 | |
| 209 Di-n-octyl phthalate | 149 | | 12.853 | | | | | |
| 211 Benzo[b]fluoranthene | 252 | 13.941 | 13.946 | 0.007 | 90 | 131592 | 4.34 | |
| 212 Benzo[k]fluoranthene | 252 | 14.017 | 13.999 | 0.007 | 86 | 29886 | 0.8892 | |
| 215 Benzo[a]pyrene | 252 | 14.881 | 14.881 | 0.001 | 57 | 86640 | 2.77 | |
| 221 Dibenz(a,h)anthracene | 278 | | 18.434 | | | | | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.348 | 18.354 | 0.002 | 93 | 43710 | 1.65 | |
| 223 Benzo[g,h,i]perylene | 276 | 19.129 | 19.141 | -0.005 | 91 | 49205 | 1.60 | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

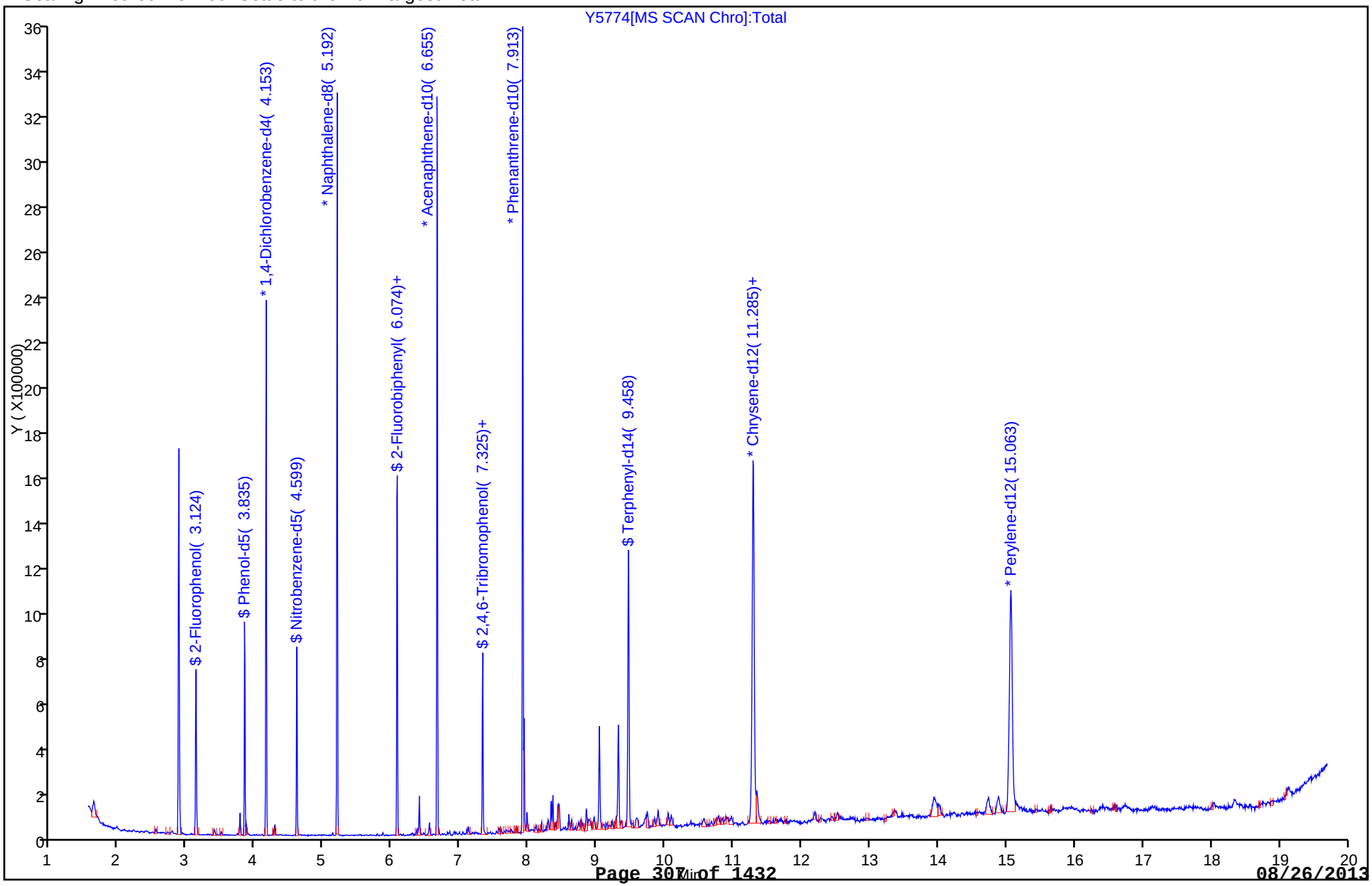
Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
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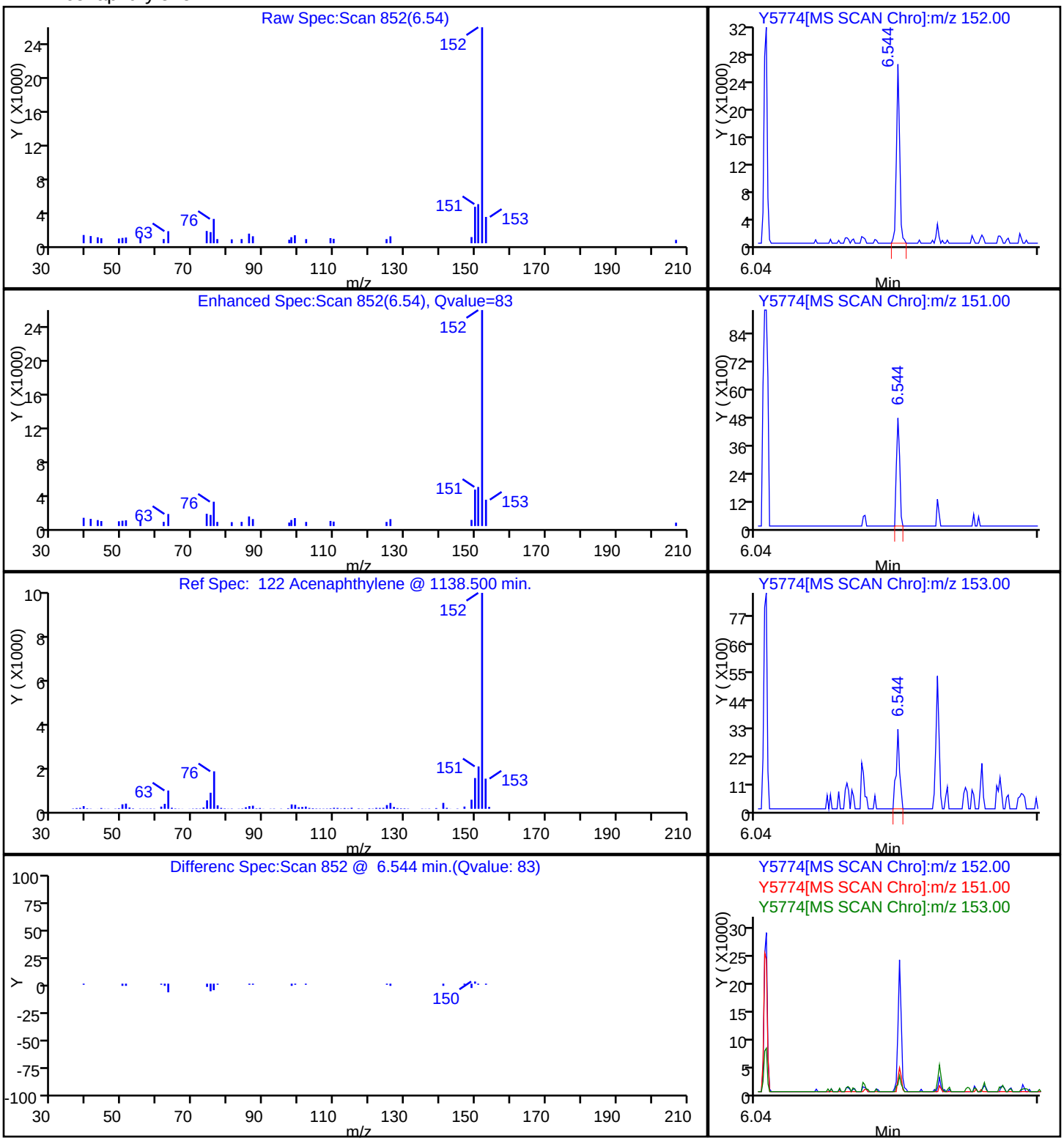
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

122 Acenaphthylene

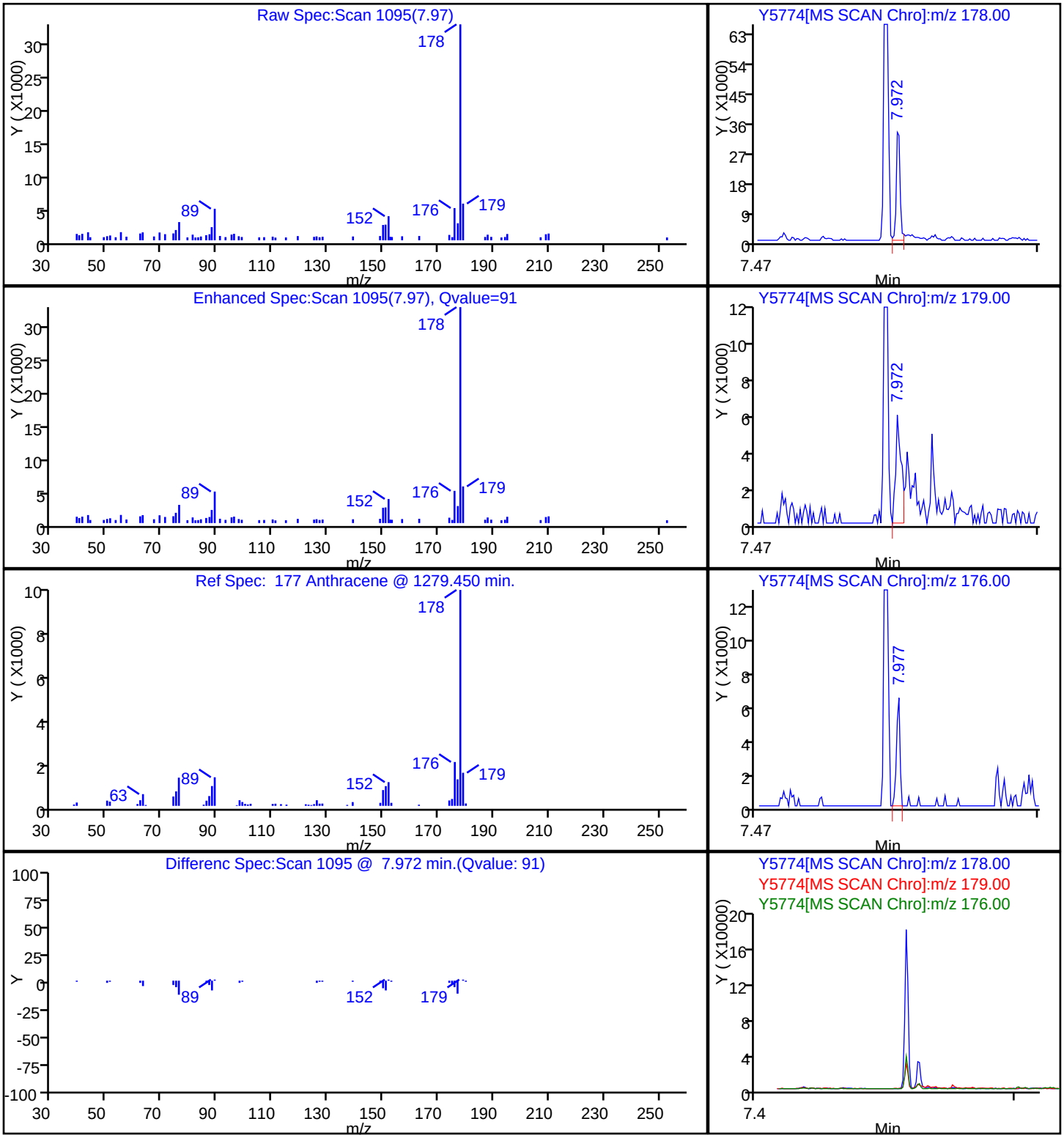


Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D | | |
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

177 Anthracene

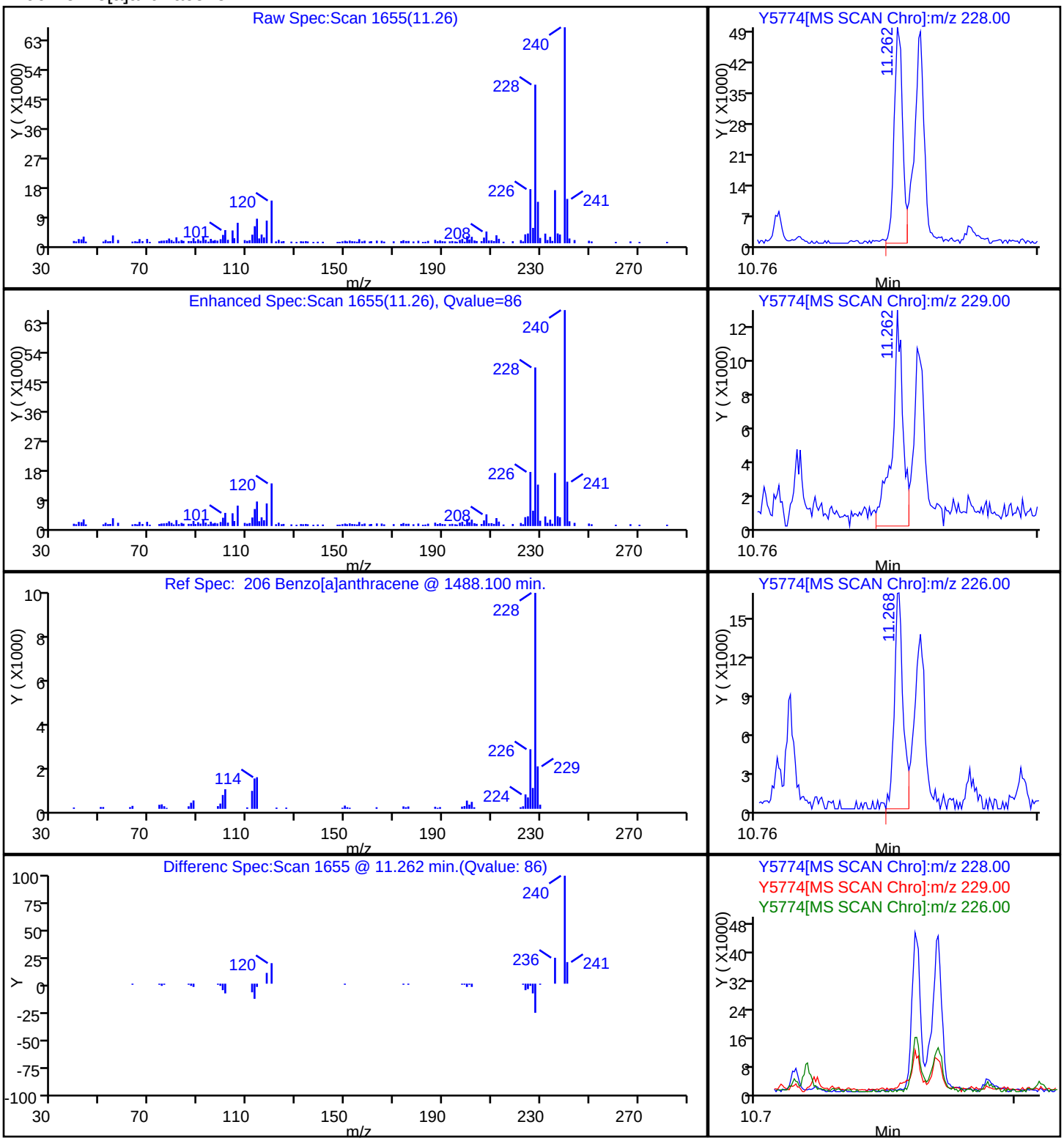


TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

206 Benzo[a]anthracene



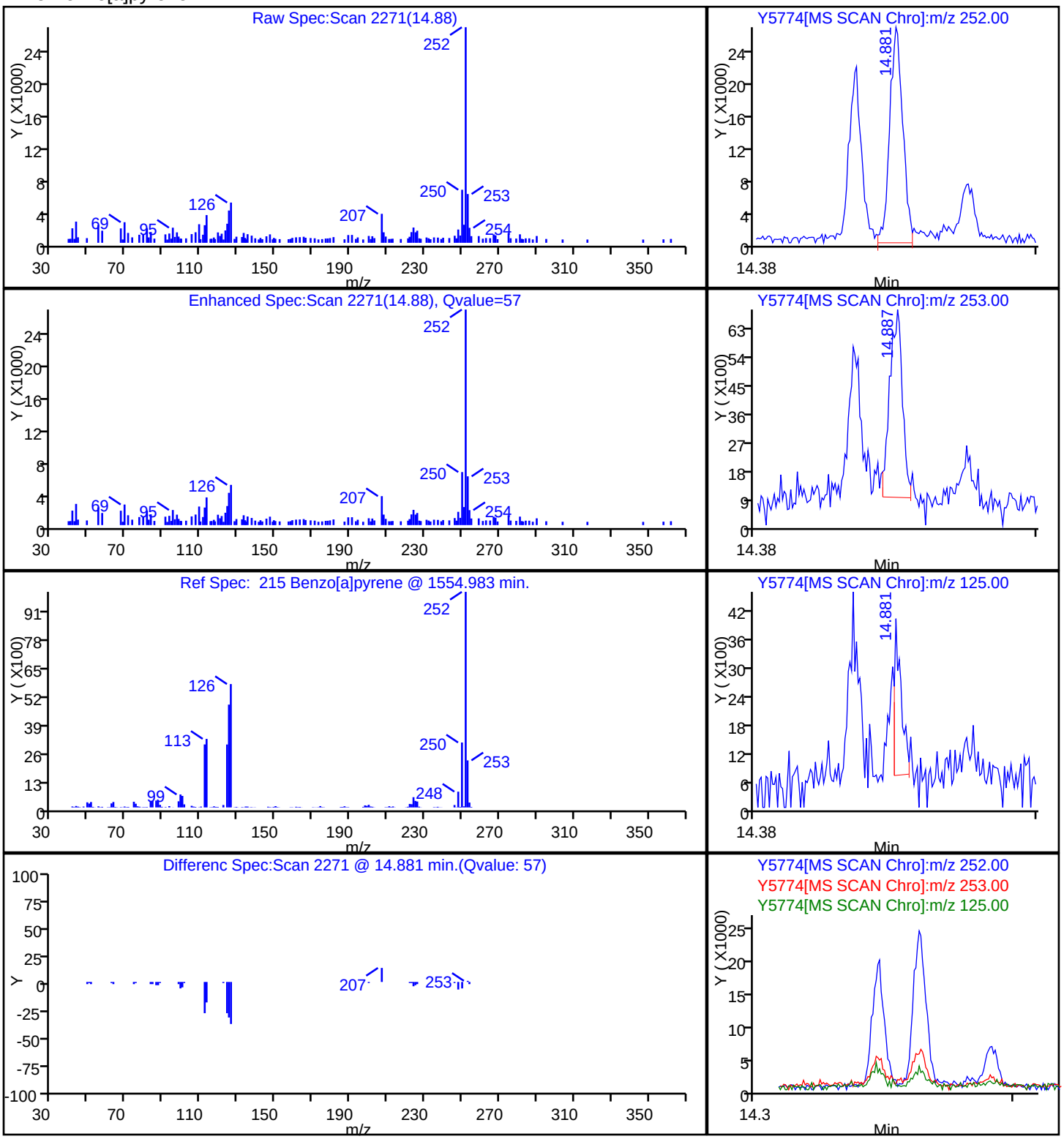
Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

215 Benzo[a]pyrene



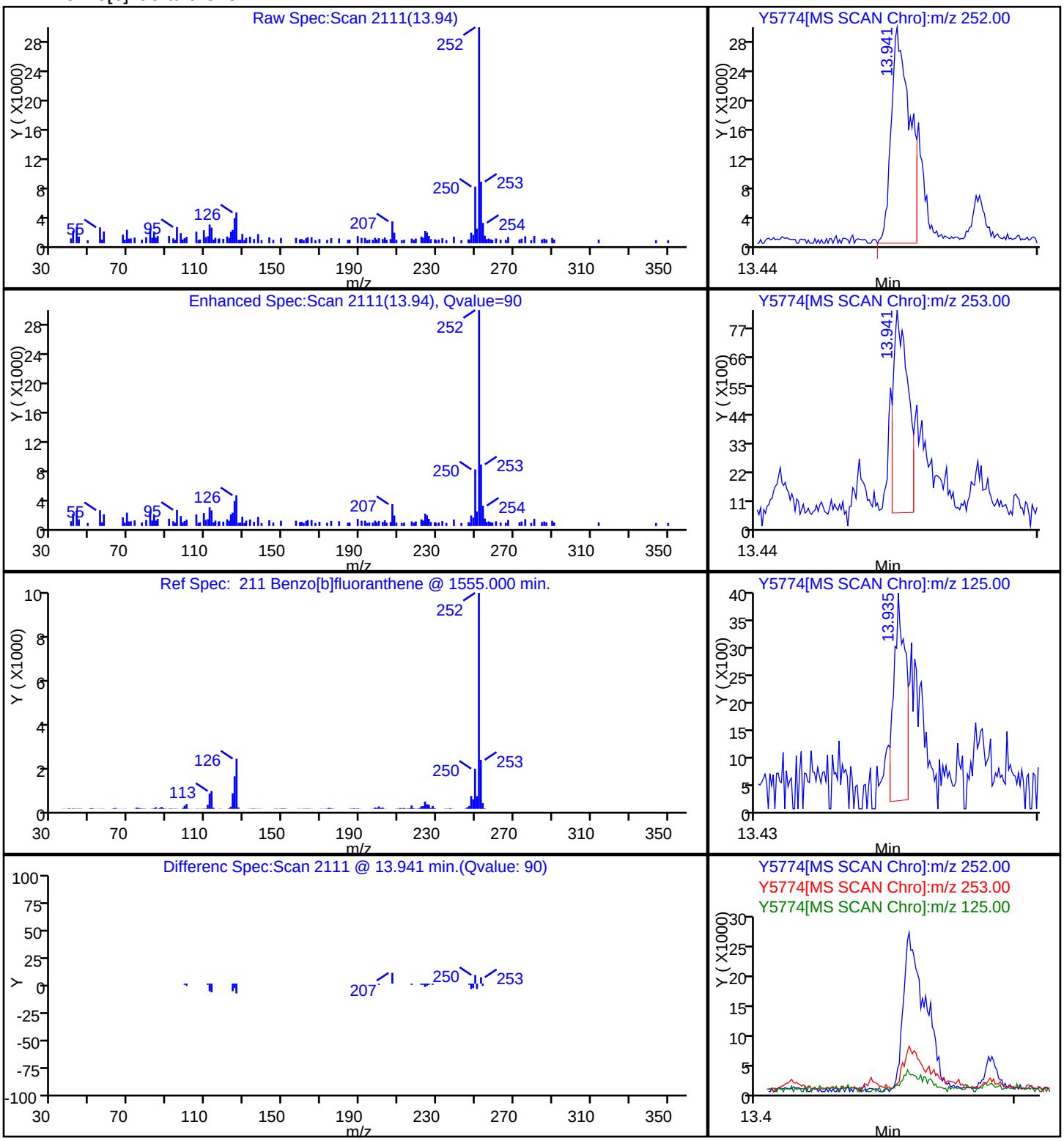
Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

211 Benzo[b]fluoranthene



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TestAmerica Denver

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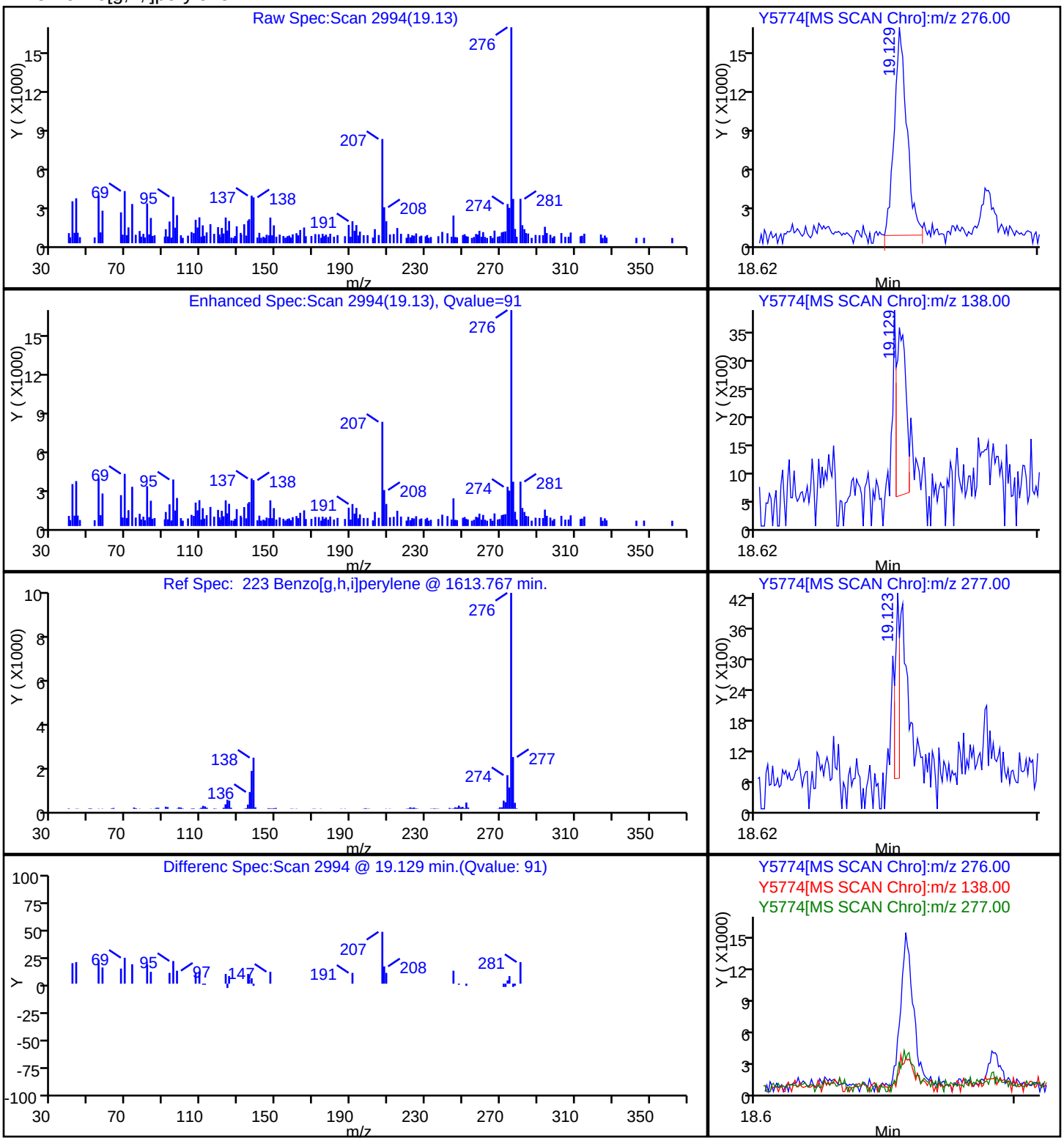
| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

223 Benzo[g,h,i]perylene



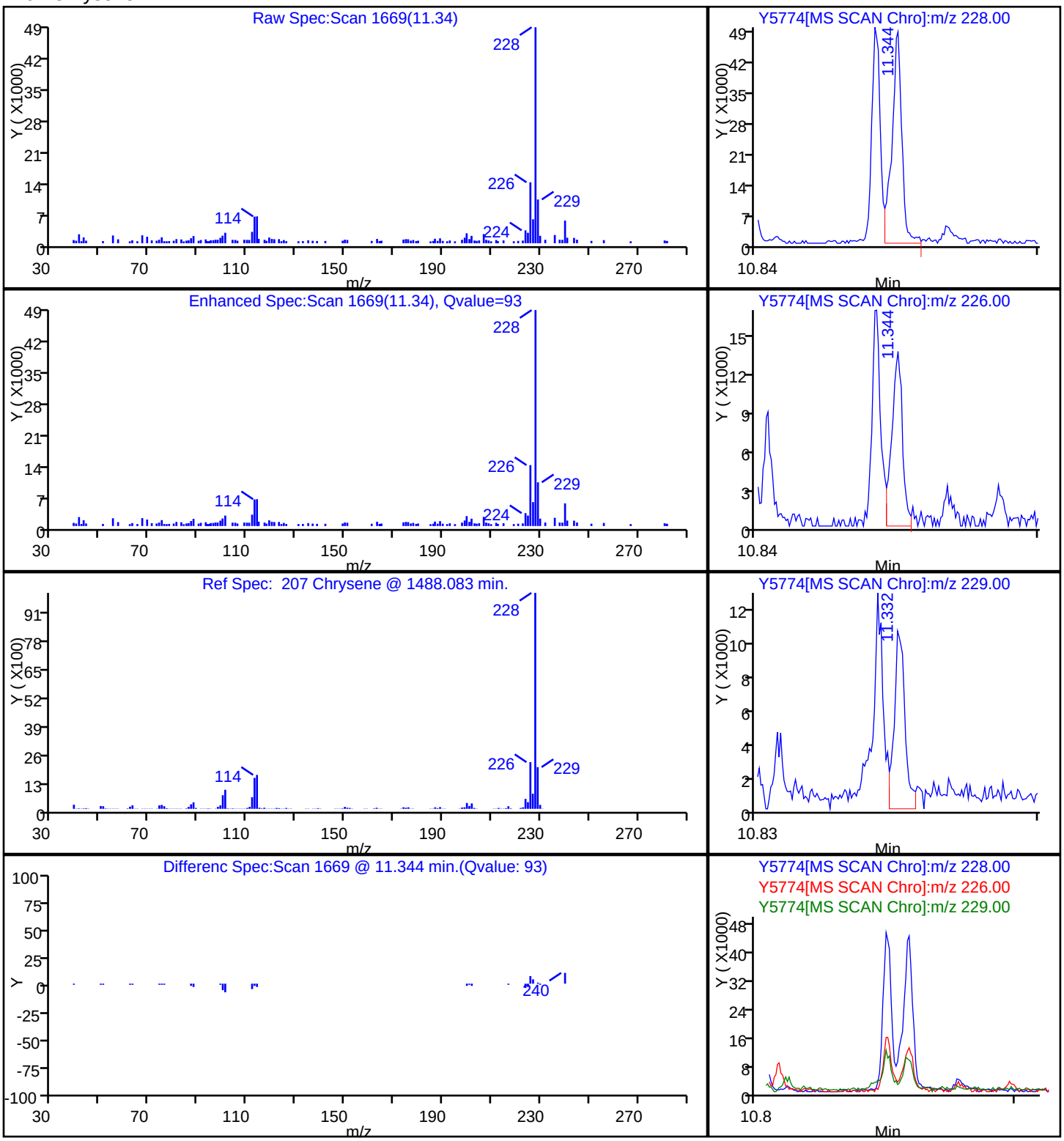
Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

207 Chrysene



Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
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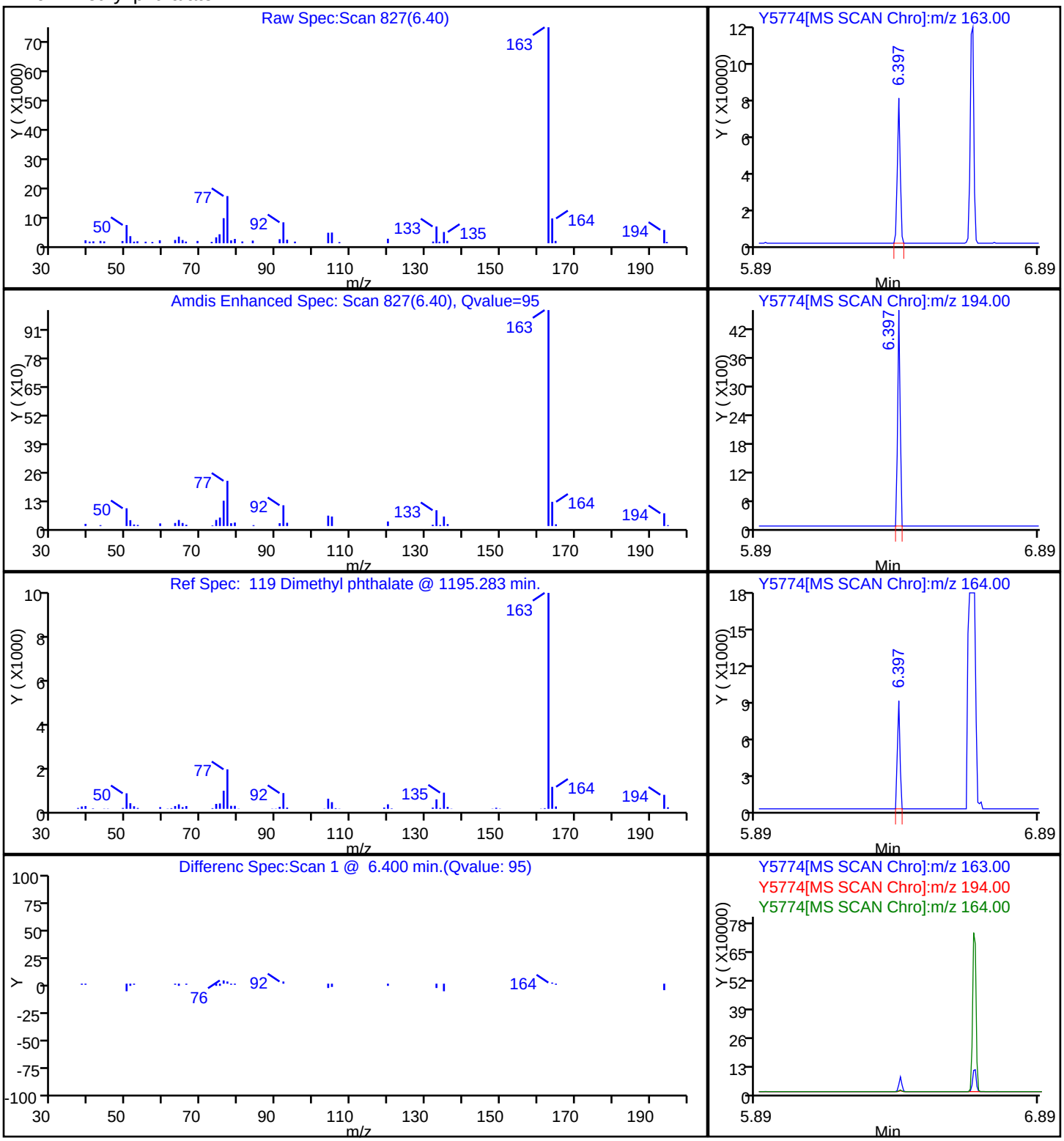
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

119 Dimethyl phthalate



Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
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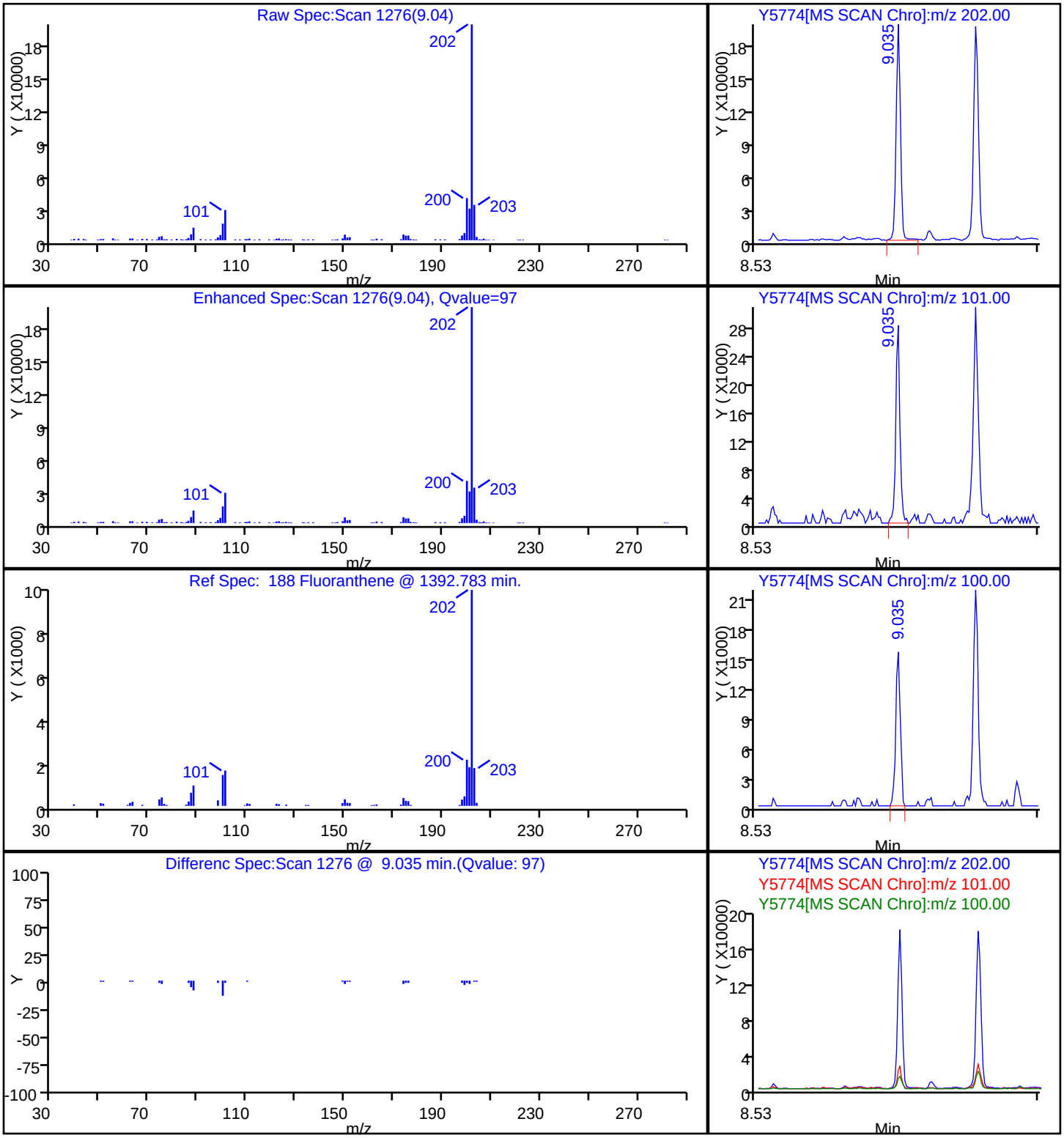
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

188 Fluoranthene



Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
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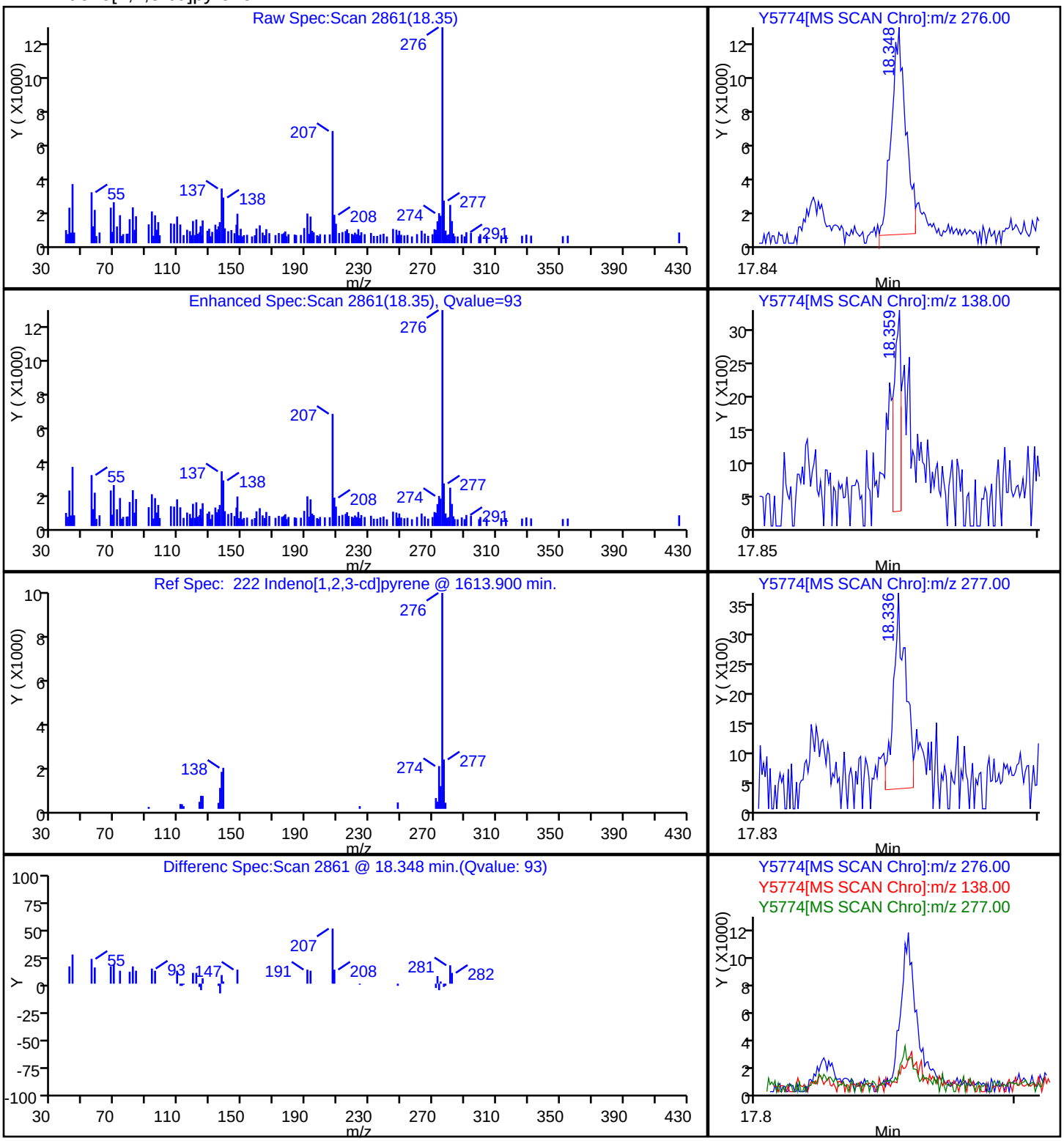
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene



Report Date: 15-Aug-2013 10:01:53 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
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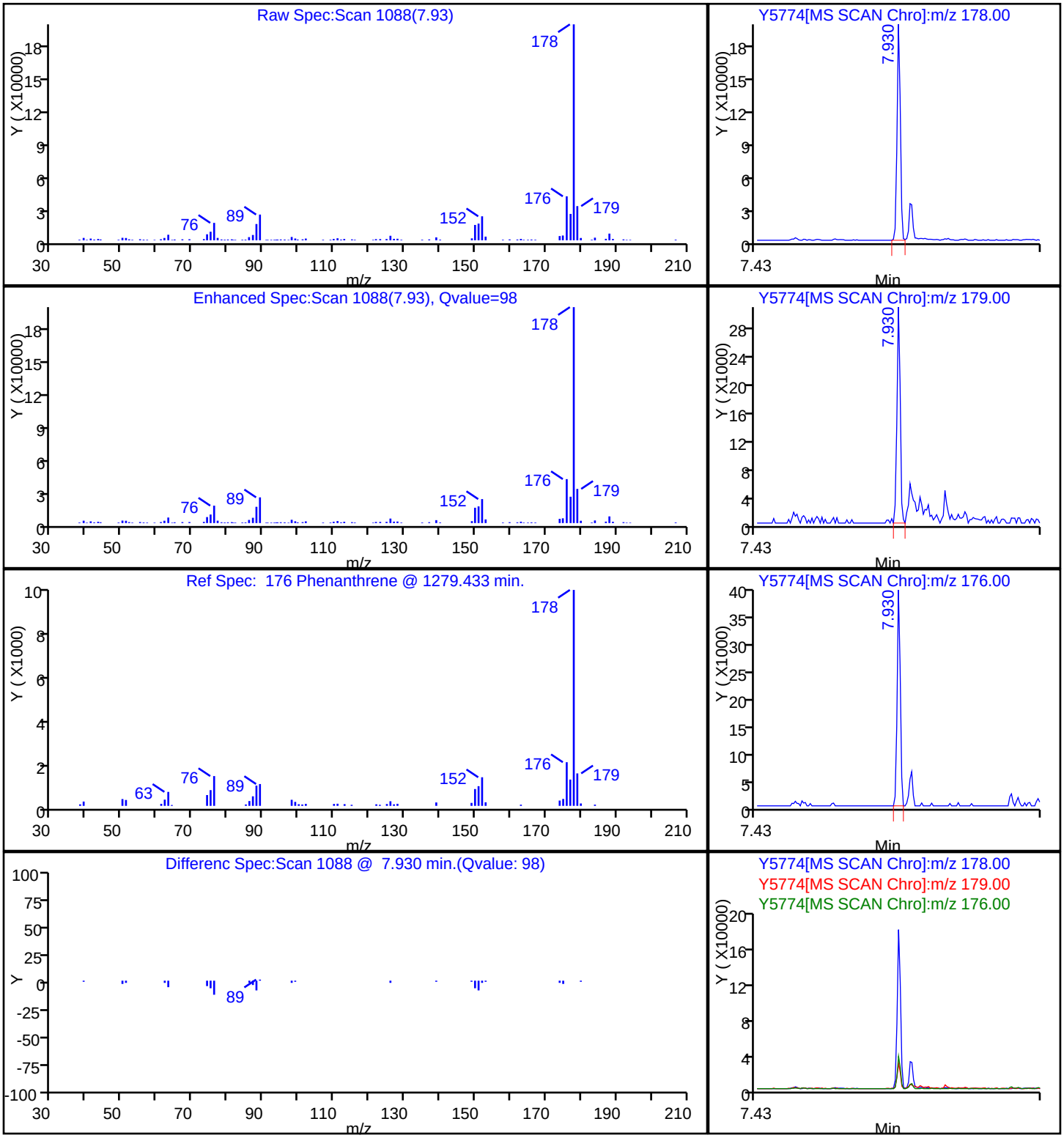
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

176 Phenanthrene



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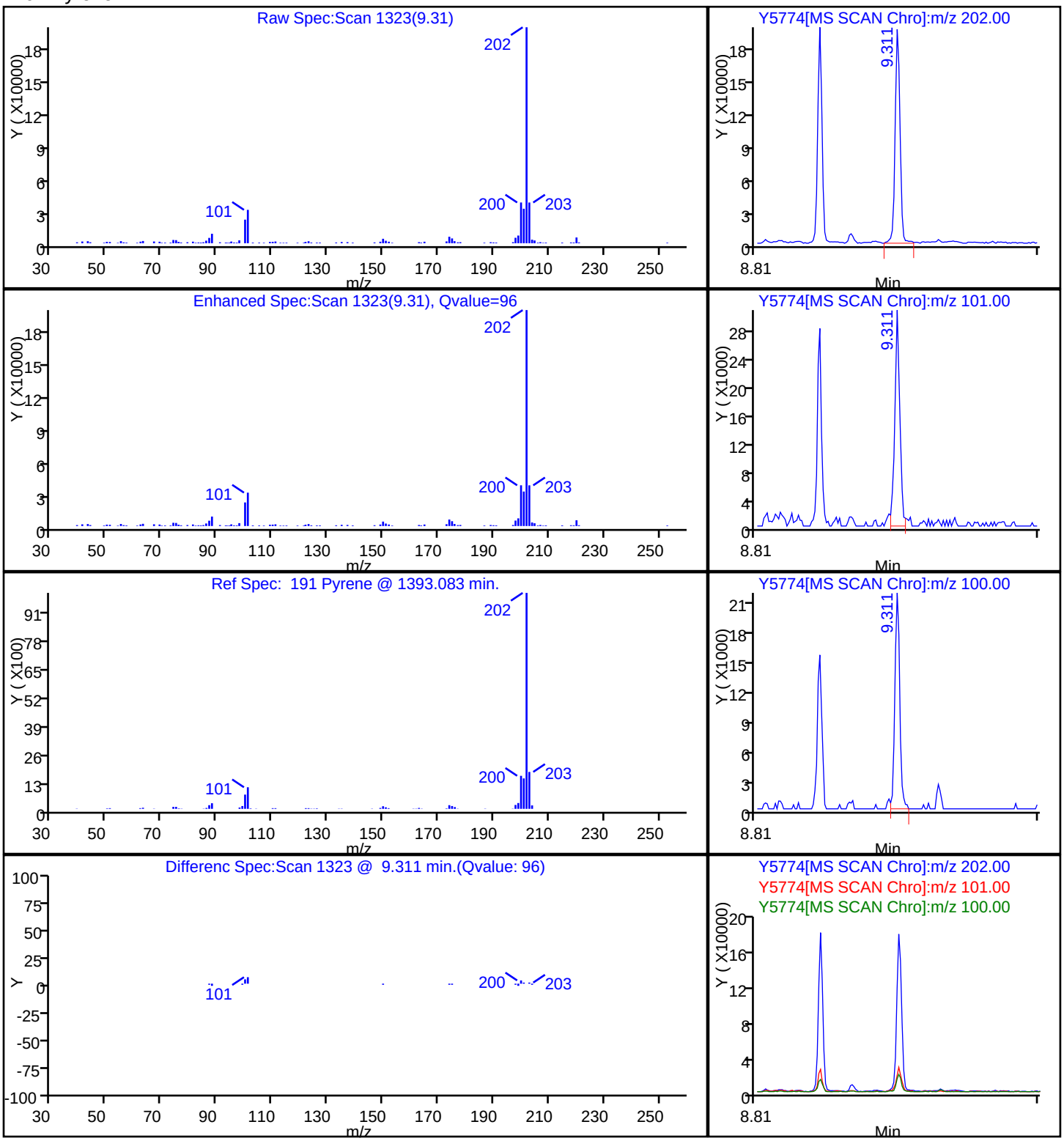
TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5774.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 19:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0904AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 24 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

191 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0908AA | Lab Sample ID: 280-45026-9

Matrix: Solid | Lab File ID: Y5775.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:00

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.0(g) | Date Analyzed: 08/14/2013 20:06

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 190 | U | 370 | 190 | 57 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 76 | U | 370 | 76 | 56 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 37 | U | 370 | 37 | 32 |
| 95-50-1 | 1,2-Dichlorobenzene | 37 | U | 370 | 37 | 25 |
| 122-66-7 | 1,2-Diphenylhydrazine | 37 | U | 370 | 37 | 25 |
| 541-73-1 | 1,3-Dichlorobenzene | 37 | U | 370 | 37 | 14 |
| 106-46-7 | 1,4-Dichlorobenzene | 37 | U | 370 | 37 | 15 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 37 | U | 370 | 37 | 26 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 190 | U | 1800 | 190 | 160 |
| 95-95-4 | 2,4,5-Trichlorophenol | 150 | U | 370 | 150 | 11 |
| 88-06-2 | 2,4,6-Trichlorophenol | 75 | U | 370 | 75 | 11 |
| 120-83-2 | 2,4-Dichlorophenol | 75 | U | 370 | 75 | 11 |
| 105-67-9 | 2,4-Dimethylphenol | 150 | U | 370 | 150 | 75 |
| 51-28-5 | 2,4-Dinitrophenol | 760 | U | 1800 | 760 | 380 |
| 121-14-2 | 2,4-Dinitrotoluene | 150 | U | 370 | 150 | 75 |
| 87-65-0 | 2,6-Dichlorophenol | 150 | U | 370 | 150 | 78 |
| 606-20-2 | 2,6-Dinitrotoluene | 75 | U | 370 | 75 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 37 | U | 370 | 37 | 11 |
| 95-57-8 | 2-Chlorophenol | 37 | U | 370 | 37 | 24 |
| 91-57-6 | 2-Methylnaphthalene | 37 | U | 370 | 37 | 22 |
| 95-48-7 | 2-Methylphenol | 37 | U | 370 | 37 | 15 |
| 88-74-4 | 2-Nitroaniline | 75 | U | 1800 | 75 | 57 |
| 88-75-5 | 2-Nitrophenol | 75 | U | 370 | 75 | 11 |
| 15831-10-4 | 3 & 4 Methylphenol | 75 | U | 370 | 75 | 37 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 370 | U | 1800 | 370 | 100 |
| 99-09-2 | 3-Nitroaniline | 150 | U | 1800 | 150 | 83 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 750 | U | 1800 | 750 | 370 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 37 | U | 370 | 37 | 22 |
| 59-50-7 | 4-Chloro-3-methylphenol | 150 | U | 370 | 150 | 75 |
| 106-47-8 | 4-Chloroaniline | 150 | U | 370 | 150 | 93 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 75 | U | 370 | 75 | 24 |
| 100-01-6 | 4-Nitroaniline | 150 | U | 1800 | 150 | 82 |
| 100-02-7 | 4-Nitrophenol | 370 | U | 1800 | 370 | 110 |
| 83-32-9 | Acenaphthene | 19 | U | 370 | 19 | 12 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0908AA | Lab Sample ID: 280-45026-9

Matrix: Solid | Lab File ID: Y5775.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:00

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.0(g) | Date Analyzed: 08/14/2013 20:06

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 31 | J | 370 | 37 | 19 |
| 98-86-2 | Acetophenone | 37 | U | 370 | 37 | 23 |
| 120-12-7 | Anthracene | 37 | U | 370 | 37 | 19 |
| 1912-24-9 | Atrazine | 150 | U | 370 | 150 | 42 |
| 100-52-7 | Benzaldehyde | 76 | U | 370 | 76 | 44 |
| 92-87-5 | Benzidine | 4500 | U | 4500 | 4500 | 1100 |
| 56-55-3 | Benzo[a]anthracene | 51 | J | 370 | 37 | 23 |
| 50-32-8 | Benzo[a]pyrene | 62 | J | 370 | 37 | 23 |
| 205-99-2 | Benzo[b]fluoranthene | 89 | J M | 370 | 37 | 30 |
| 191-24-2 | Benzo[g,h,i]perylene | 55 | J | 370 | 37 | 18 |
| 207-08-9 | Benzo[k]fluoranthene | 75 | U M | 370 | 75 | 45 |
| 65-85-0 | Benzoic acid | 750 | U | 1800 | 750 | 370 |
| 100-51-6 | Benzyl alcohol | 37 | U | 370 | 37 | 11 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 75 | U | 370 | 75 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 37 | U | 370 | 37 | 19 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 75 | U | 370 | 75 | 52 |
| 85-68-7 | Butyl benzyl phthalate | 75 | U | 370 | 75 | 49 |
| 105-60-2 | Caprolactam | 370 | U | 1800 | 370 | 120 |
| 86-74-8 | Carbazole | 76 | U | 370 | 76 | 41 |
| 218-01-9 | Chrysene | 68 | J | 370 | 37 | 31 |
| 53-70-3 | Dibenz(a,h)anthracene | 37 | U | 370 | 37 | 22 |
| 132-64-9 | Dibenzofuran | 37 | U | 370 | 37 | 23 |
| 84-66-2 | Diethyl phthalate | 37 | U | 750 | 37 | 29 |
| 131-11-3 | Dimethyl phthalate | 220 | J | 370 | 37 | 26 |
| 84-74-2 | Di-n-butyl phthalate | 37 | U | 370 | 37 | 33 |
| 117-84-0 | Di-n-octyl phthalate | 75 | U | 370 | 75 | 16 |
| 206-44-0 | Fluoranthene | 78 | J | 370 | 75 | 41 |
| 86-73-7 | Fluorene | 37 | U | 370 | 37 | 20 |
| 118-74-1 | Hexachlorobenzene | 75 | U | 370 | 75 | 33 |
| 87-68-3 | Hexachlorobutadiene | 75 | U | 370 | 75 | 11 |
| 77-47-4 | Hexachlorocyclopentadiene | 75 | U | 1900 | 75 | 57 |
| 67-72-1 | Hexachloroethane | 37 | U | 370 | 37 | 24 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 53 | J | 370 | 37 | 25 |
| 78-59-1 | Isophorone | 37 | U | 370 | 37 | 19 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0908AA | Lab Sample ID: 280-45026-9

Matrix: Solid | Lab File ID: Y5775.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:00

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.0(g) | Date Analyzed: 08/14/2013 20:06

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 75 | U | 370 | 75 | 35 |
| 98-95-3 | Nitrobenzene | 37 | U | 370 | 37 | 25 |
| 62-75-9 | N-Nitrosodimethylamine | 75 | U | 590 | 75 | 42 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 75 | U | 370 | 75 | 35 |
| 86-30-6 | N-Nitrosodiphenylamine | 37 | U | 370 | 37 | 24 |
| 930-55-2 | N-Nitrosopyrrolidine | 150 | U | 370 | 150 | 73 |
| 87-86-5 | Pentachlorophenol | 760 | U | 1800 | 760 | 370 |
| 85-01-8 | Phenanthrene | 36 | J | 370 | 37 | 19 |
| 108-95-2 | Phenol | 37 | U | 370 | 37 | 20 |
| 129-00-0 | Pyrene | 94 | J | 450 | 37 | 14 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 90 | | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 86 | | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 80 | | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 78 | | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 87 | | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 97 | | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D
Lims ID: 280-45026-A-9-B
Client ID: B255SCS0908AA
Inject. Date: 14-Aug-2013 20:06:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-45026-a-9-b
Misc. Info.: 186667 =186667
Operator: hoffmanm
Instrument ID: SMS_Y
Injection Vol: 0.5 ul
ALS Bottle#: 23
Lims Batch ID: 187134
Lims Sample ID: 25
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41
Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE
ID Type: Deconvolution ID
Column Type: VF-5ms
Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm
Date: 15-Aug-2013 09:52:23

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.154 | 4.149 | 0.005 | 95 | 311631 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.194 | 5.189 | 0.005 | 99 | 1196058 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.657 | 6.658 | -0.001 | 90 | 710670 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.914 | 7.909 | 0.005 | 97 | 1175387 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.287 | 11.288 | -0.001 | 80 | 1266429 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.065 | 15.060 | 0.005 | 86 | 1244384 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.126 | 3.127 | 0.003 | 90 | 913144 | 80.5 | |
| $ 8 Phenol-d5 | 99 | 3.837 | 3.839 | 0.003 | 83 | 1216844 | 87.2 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.600 | 4.609 | -0.004 | 88 | 922709 | 77.9 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.069 | 6.072 | -0.003 | 99 | 1965534 | 85.9 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.327 | 7.324 | 0.003 | 91 | 445153 | 90.1 | |
| $ 13 Terphenyl-d14 | 244 | 9.459 | 9.457 | 0.002 | 98 | 2486384 | 97.3 | |
| 28 N-Nitrosodimethylamine | 74 | | 2.106 | | | | | |
| 39 Benzaldehyde | 106 | | 3.811 | | | | | |
| 40 Phenol | 94 | | 3.846 | | | | | |
| 45 Bis(2-chloroethyl)ether | 93 | | 3.922 | | | | | |
| 48 2-Chlorophenol | 128 | | 3.987 | | | | | |
| 49 1,3-Dichlorobenzene | 146 | | 4.104 | | | | | |
| 50 1,4-Dichlorobenzene | 146 | | 4.163 | | | | | 9 |
| 51 Benzyl alcohol | 108 | | 4.251 | | | | | 9 |
| 52 1,2-Dichlorobenzene | 146 | | 4.292 | | | | | 9 |
| 54 2-Methylphenol | 108 | | 4.327 | | | | | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | | 4.339 | | | | | |
| 60 3 & 4 Methylphenol | 108 | | 4.451 | | | | | |
| 61 N-Nitrosodi-n-propylamine | 70 | | 4.451 | | | | | |
| 62 N-Nitrosopyrrolidine | 100 | | 4.460 | | | | | 9 |
| 63 Acetophenone | 105 | | 4.468 | | | | | 9 |
| 66 Hexachloroethane | 117 | | 4.562 | | | | | |
| 67 Nitrobenzene | 77 | | 4.615 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 Isophorone | 82 | | 4.797 | | | | | |
| 73 2,4-Dimethylphenol | 107 | | 4.880 | | | | | |
| 74 2-Nitrophenol | 139 | | 4.874 | | | | | |
| 77 Benzoic acid | 105 | | 4.974 | | | | | |
| 78 Bis(2-chloroethoxy)methane | 93 | | 4.956 | | | | | |
| 82 2,4-Dichlorophenol | 162 | | 5.068 | | | | | |
| 84 1,2,4-Trichlorobenzene | 180 | | 5.138 | | | | | |
| 87 Naphthalene | 128 | | 5.209 | | | | | 9 |
| 88 4-Chloroaniline | 127 | | 5.250 | | | | | |
| 89 2,6-Dichlorophenol | 162 | | 5.254 | | | | | |
| 91 Hexachlorobutadiene | 225 | | 5.285 | | | | | |
| 94 Caprolactam | 55 | | 5.538 | | | | | 9 |
| 97 4-Chloro-3-methylphenol | 107 | | 5.632 | | | | | |
| 101 2-Methylnaphthalene | 142 | | 5.773 | | | | | 9 |
| 105 Hexachlorocyclopentadiene | 237 | | 5.896 | | | | | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | | 5.914 | | | | | |
| 108 2,4,6-Trichlorophenol | 196 | | 6.008 | | | | | |
| 110 2,4,5-Trichlorophenol | 196 | | 6.043 | | | | | |
| 112 1,1'-Biphenyl | 154 | | 6.161 | | | | | |
| 114 2-Chloronaphthalene | 162 | | 6.190 | | | | | |
| 116 2-Nitroaniline | 65 | | 6.278 | | | | | 9 |
| 119 Dimethyl phthalate | 163 | 6.398 | 6.396 | 0.002 | 98 | 126686 | 5.88 | |
| 121 2,6-Dinitrotoluene | 165 | | 6.466 | | | | | 9 |
| 122 Acenaphthylene | 152 | 6.545 | 6.542 | 0.003 | 84 | 24767 | 0.8104 | |
| 123 3-Nitroaniline | 138 | | 6.625 | | | | | |
| 124 Acenaphthene | 153 | | 6.683 | | | | | 9 |
| 126 2,4-Dinitrophenol | 184 | | 6.707 | | | | | |
| 127 4-Nitrophenol | 109 | | 6.760 | | | | | |
| 130 2,4-Dinitrotoluene | 165 | | 6.807 | | | | | |
| 132 Dibenzofuran | 168 | | 6.824 | | | | | 9 |
| 134 2,3,4,6-Tetrachlorophenol | 232 | | 6.924 | | | | | |
| 139 Diethyl phthalate | 149 | | 6.977 | | | | | 9 |
| 142 4-Chlorophenyl phenyl ether | 204 | | 7.095 | | | | | |
| 143 Fluorene | 166 | | 7.112 | | | | | |
| 146 4-Nitroaniline | 138 | | 7.148 | | | | | |
| 147 4,6-Dinitro-2-methylphenol | 198 | | 7.153 | | | | | |
| 150 N-Nitrosodiphenylamine | 169 | | 7.200 | | | | | |
| 151 1,2-Diphenylhydrazine | 77 | | 7.230 | | | | | 9 |
| 164 4-Bromophenyl phenyl ether | 248 | | 7.506 | | | | | |
| 165 Hexachlorobenzene | 284 | | 7.577 | | | | | |
| 167 Atrazine | 200 | | 7.624 | | | | | |
| 171 Pentachlorophenol | 266 | | 7.747 | | | | | |
| 176 Phenanthrene | 178 | 7.932 | 7.936 | 0.003 | 92 | 29097 | 0.9550 | |
| 177 Anthracene | 178 | | 7.976 | | | | | |
| 178 Carbazole | 167 | | 8.111 | | | | | 9 |
| 181 Di-n-butyl phthalate | 149 | | 8.329 | | | | | |
| 188 Fluoranthene | 202 | 9.036 | 9.040 | 0.002 | 95 | 69249 | 2.07 | |
| 189 Benzidine | 184 | | 9.175 | | | | | 9 |
| 191 Pyrene | 202 | 9.313 | 9.316 | 0.003 | 96 | 81276 | 2.48 | |
| 198 Butyl benzyl phthalate | 149 | | 10.150 | | | | | 9 |
| 203 Bis(2-ethylhexyl) phthalate | 149 | | 11.213 | | | | | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.225 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 206 Benzo[a]anthracene | 228 | 11.263 | 11.260 | 0.003 | 74 | 42411 | 1.36 | |
| 207 Chrysene | 228 | 11.340 | 11.343 | -0.003 | 86 | 53398 | 1.80 | |
| 209 Di-n-octyl phthalate | 149 | | 12.853 | | | | | |
| 211 Benzo[b]fluoranthene | 252 | 13.942 | 13.946 | 0.008 | 91 | 73730 | 2.36 | M |
| 212 Benzo[k]fluoranthene | 252 | 14.025 | 13.999 | 0.015 | 91 | 26623 | 0.7695 | M |
| 215 Benzo[a]pyrene | 252 | 14.888 | 14.881 | 0.008 | 62 | 52675 | 1.64 | |
| 221 Dibenz(a,h)anthracene | 278 | | 18.434 | | | | | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.337 | 18.354 | -0.009 | 93 | 37950 | 1.41 | |
| 223 Benzo[g,h,i]perylene | 276 | 19.125 | 19.141 | -0.009 | 72 | 46080 | 1.46 | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

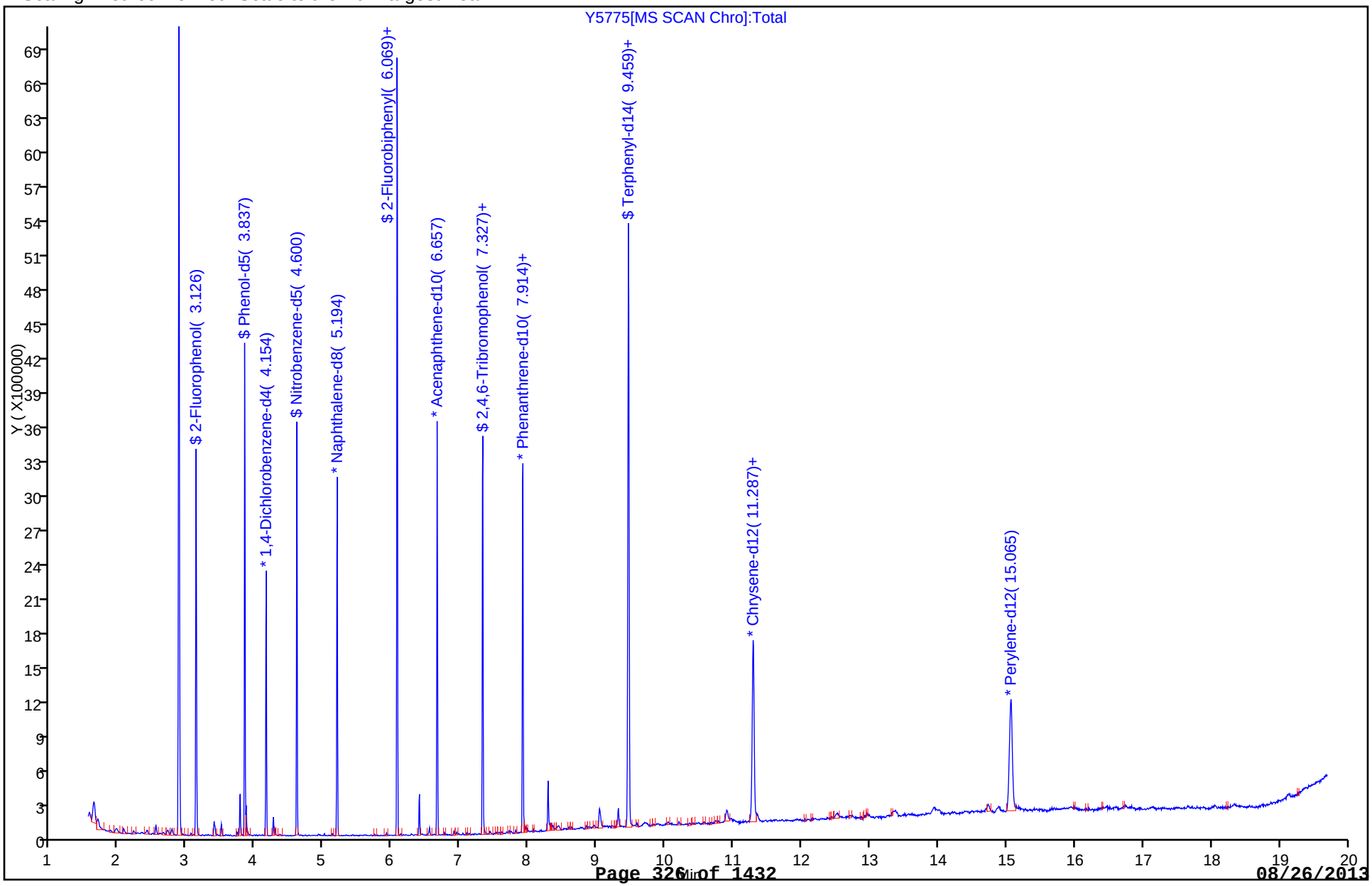
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



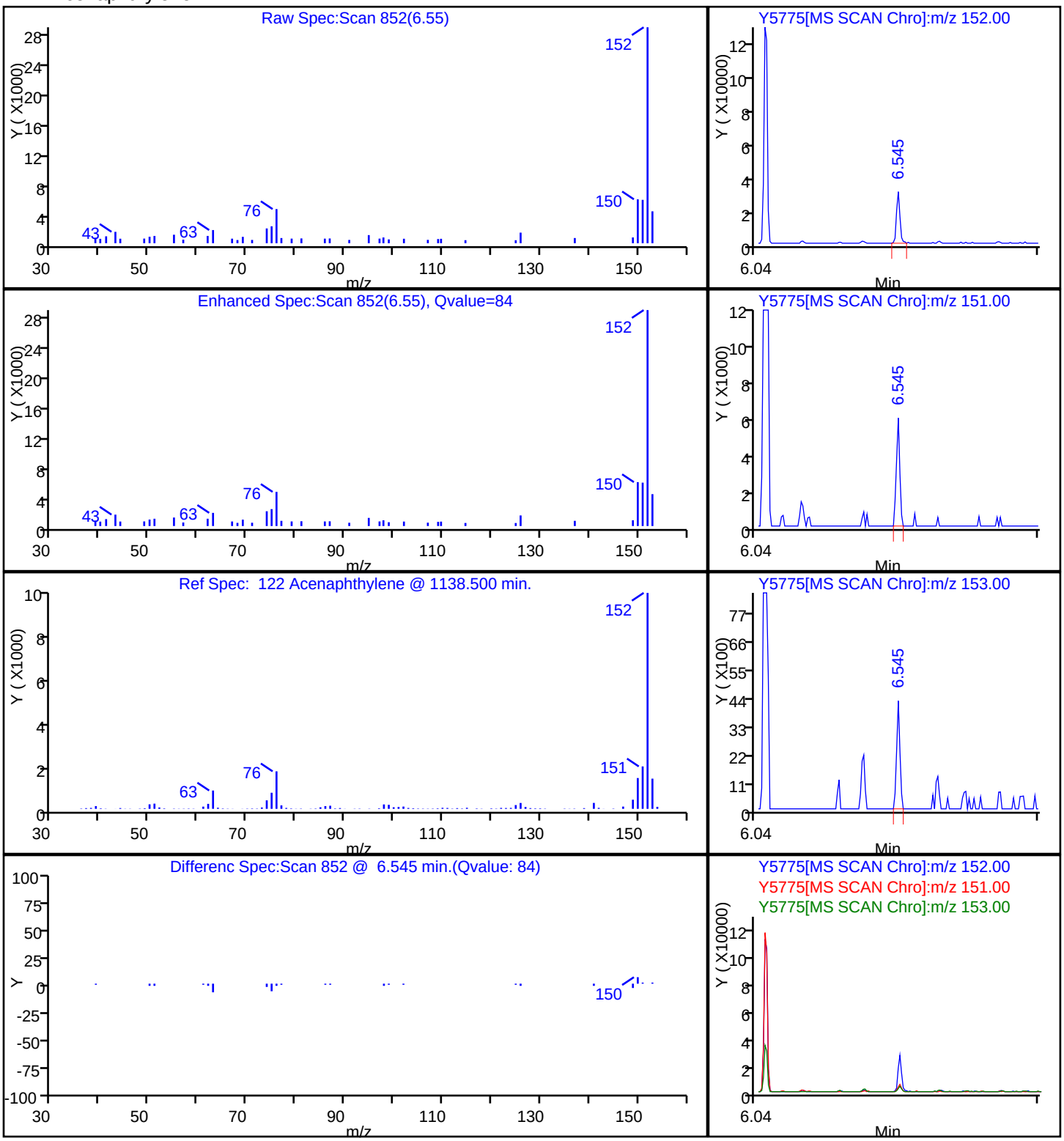
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

122 Acenaphthylene



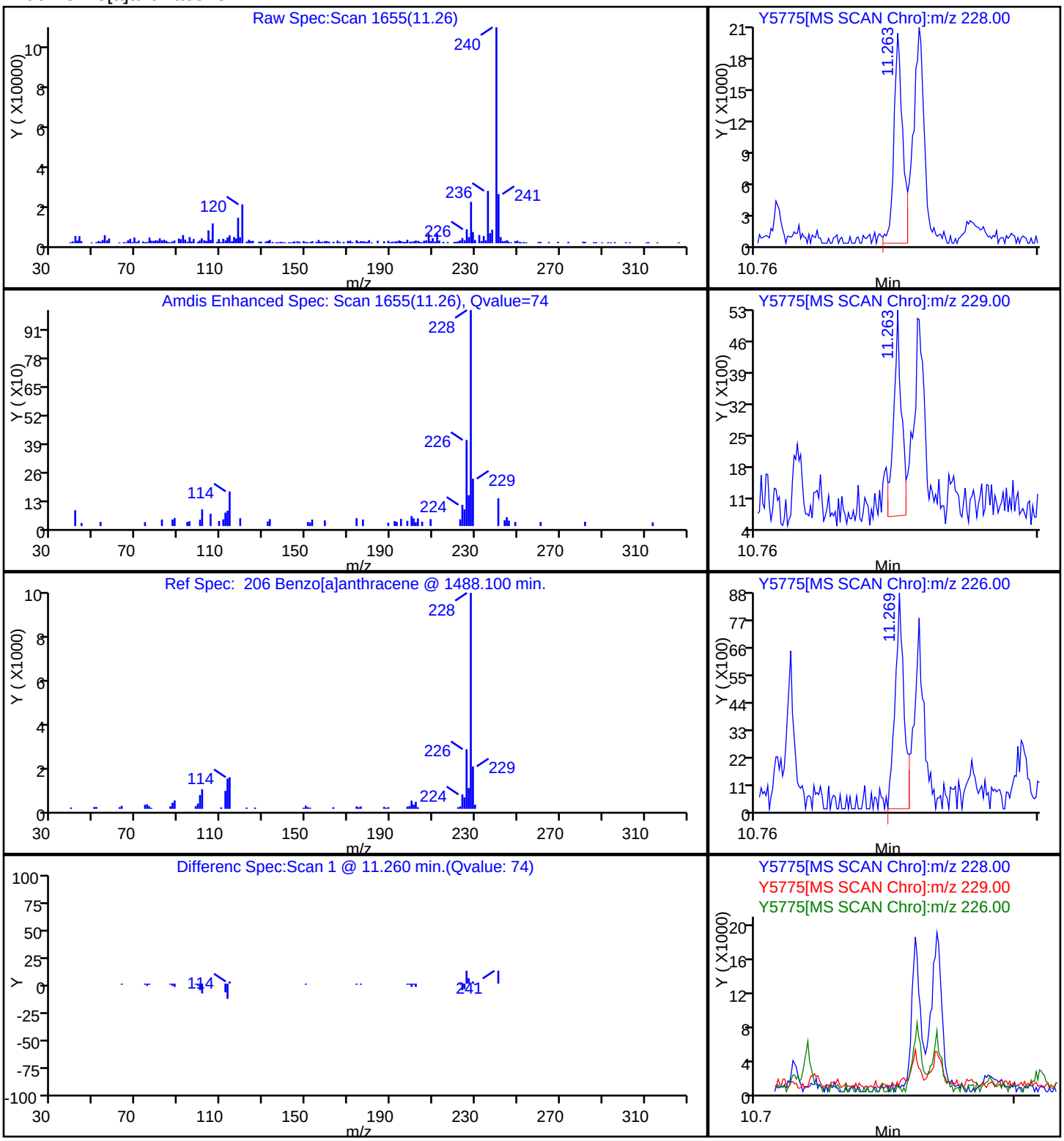
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

206 Benzo[a]anthracene



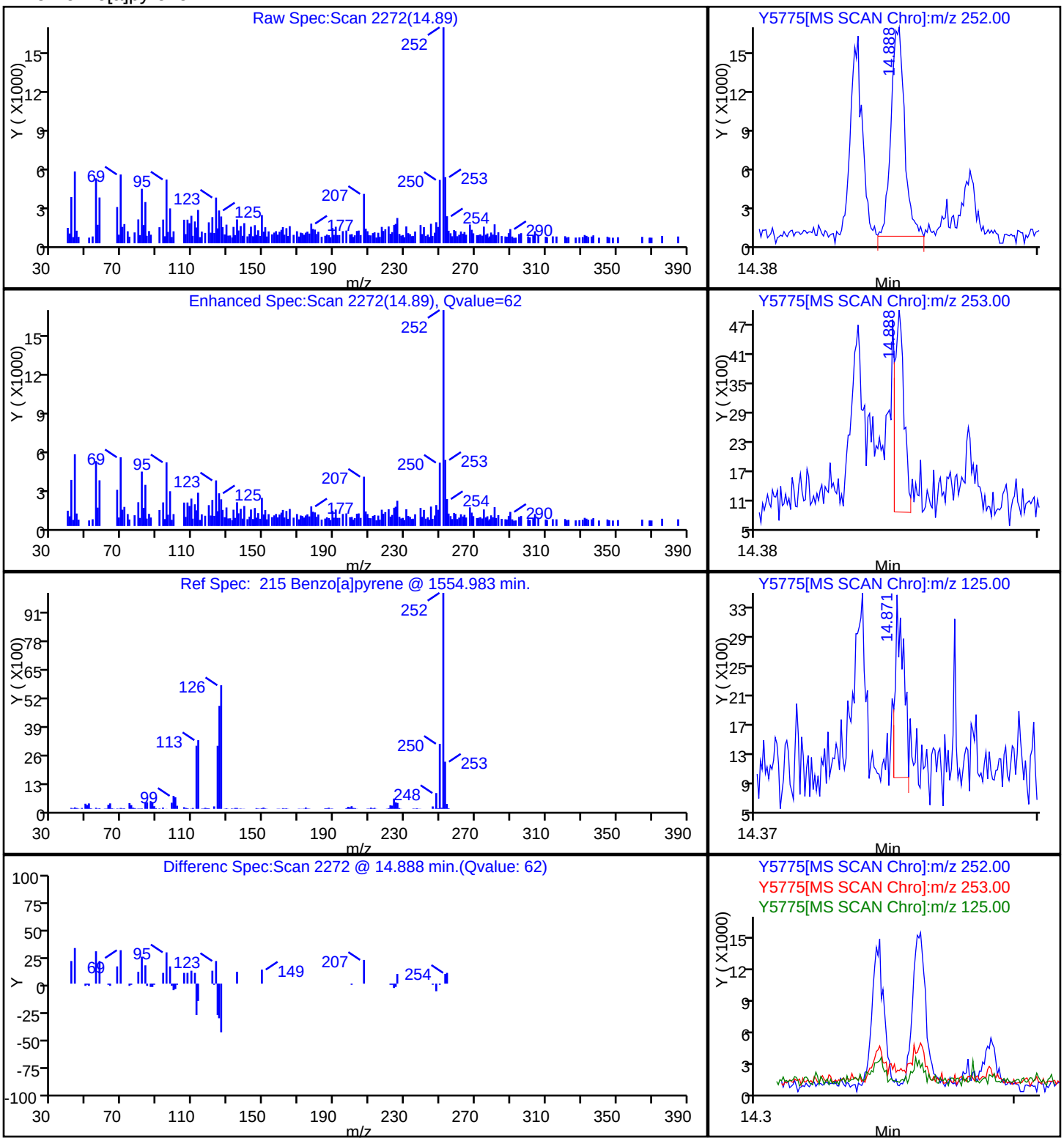
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

215 Benzo[a]pyrene



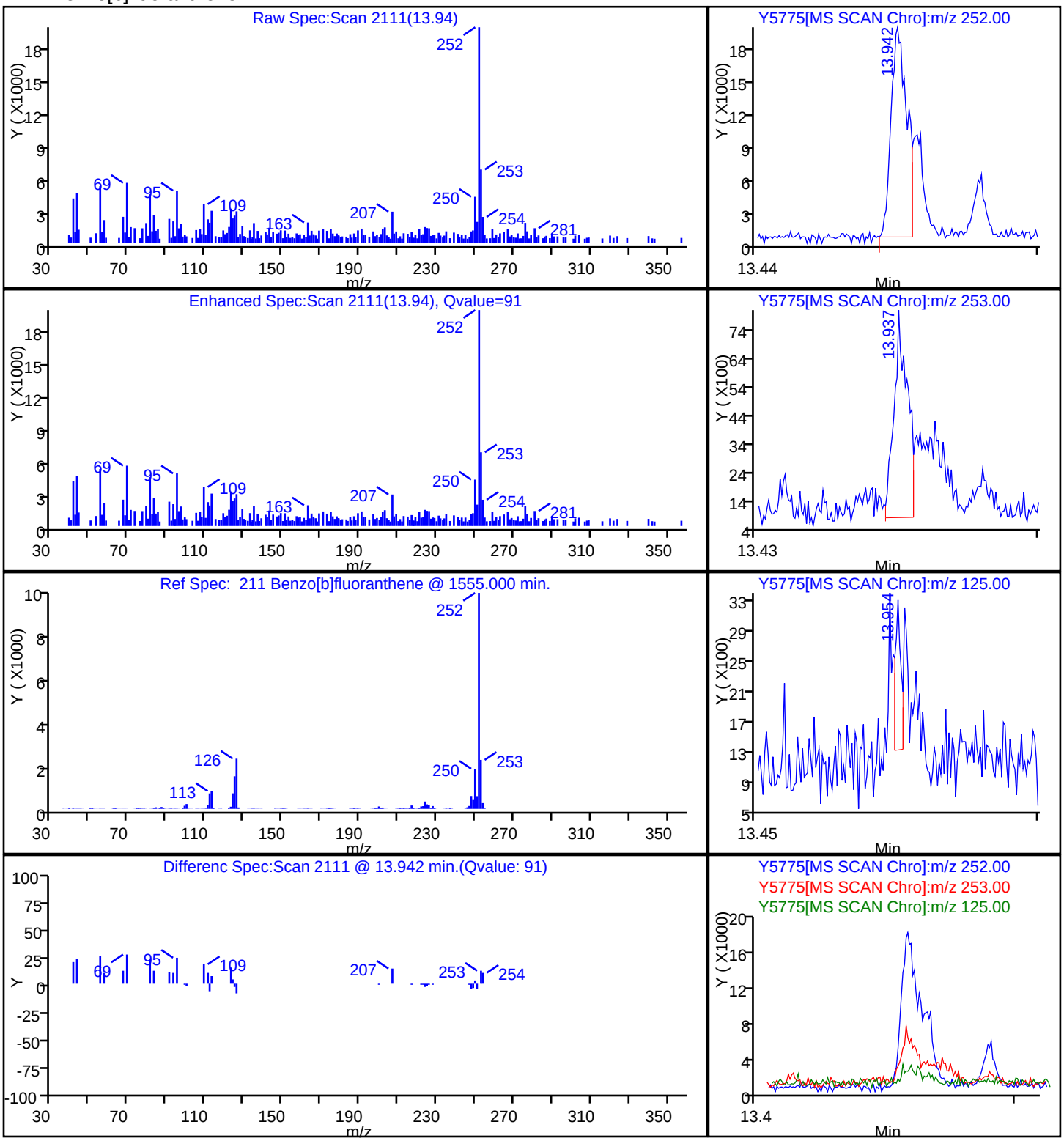
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

211 Benzo[b]fluoranthene



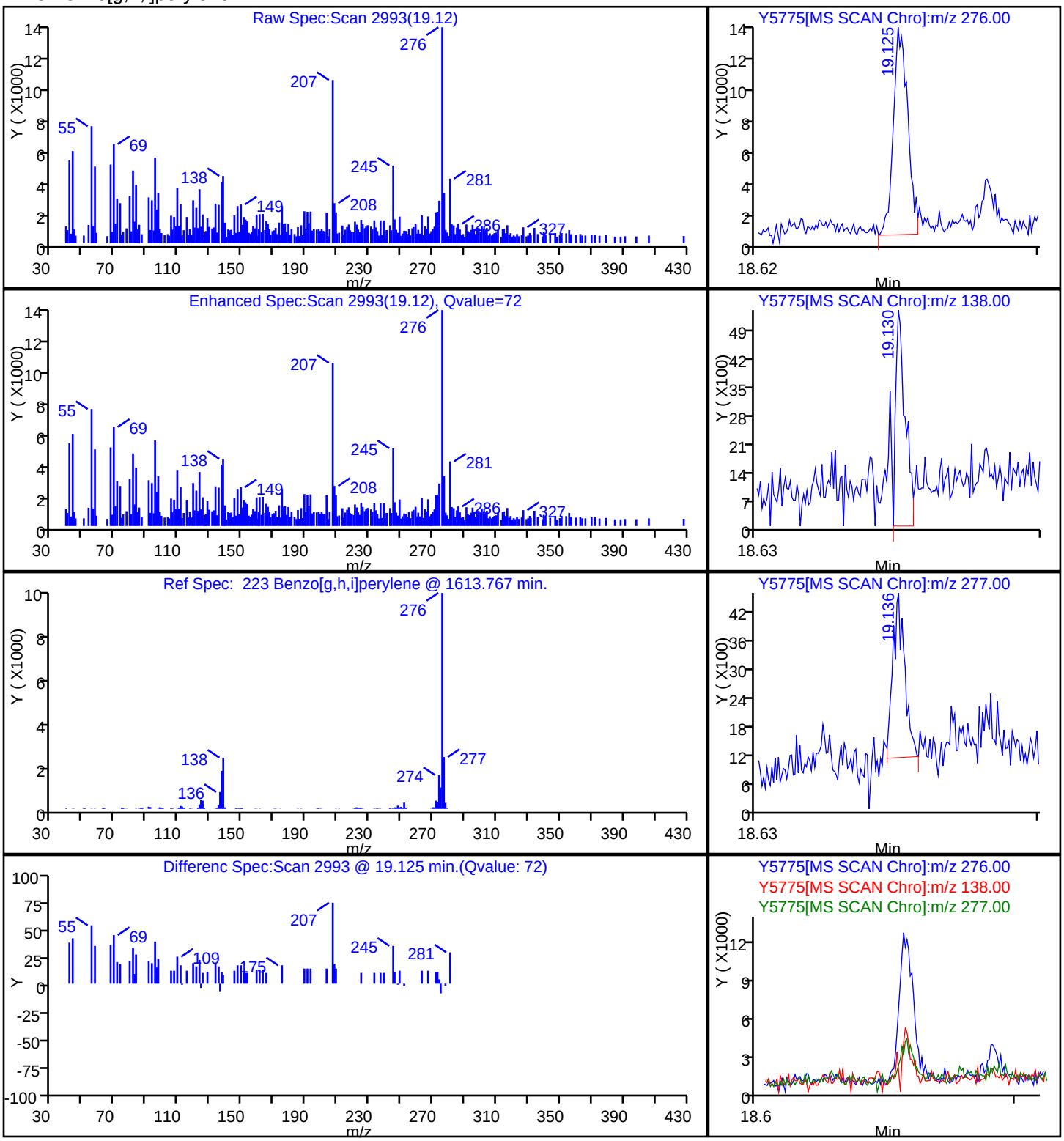
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

223 Benzo[g,h,i]perylene



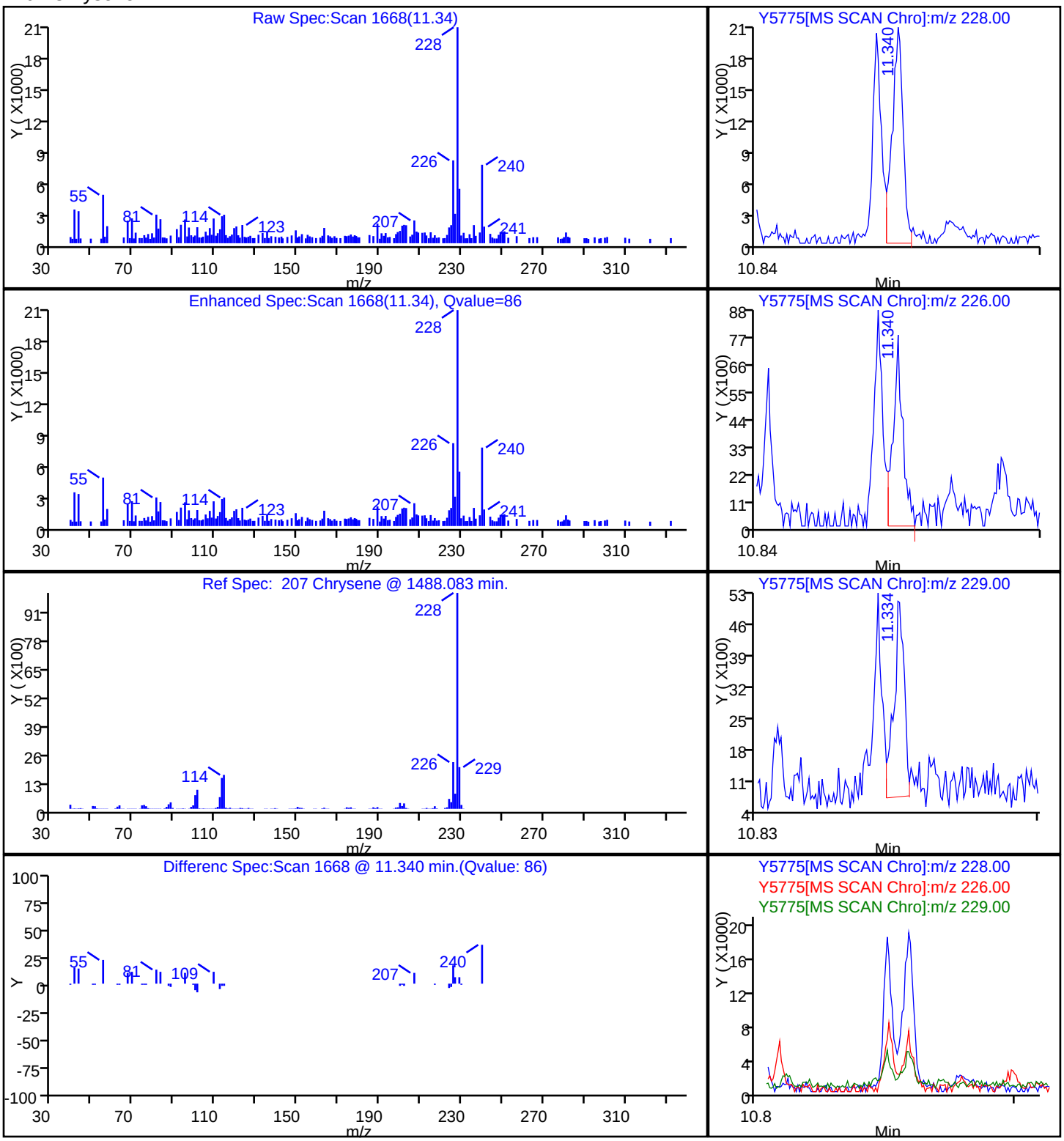
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

207 Chrysene



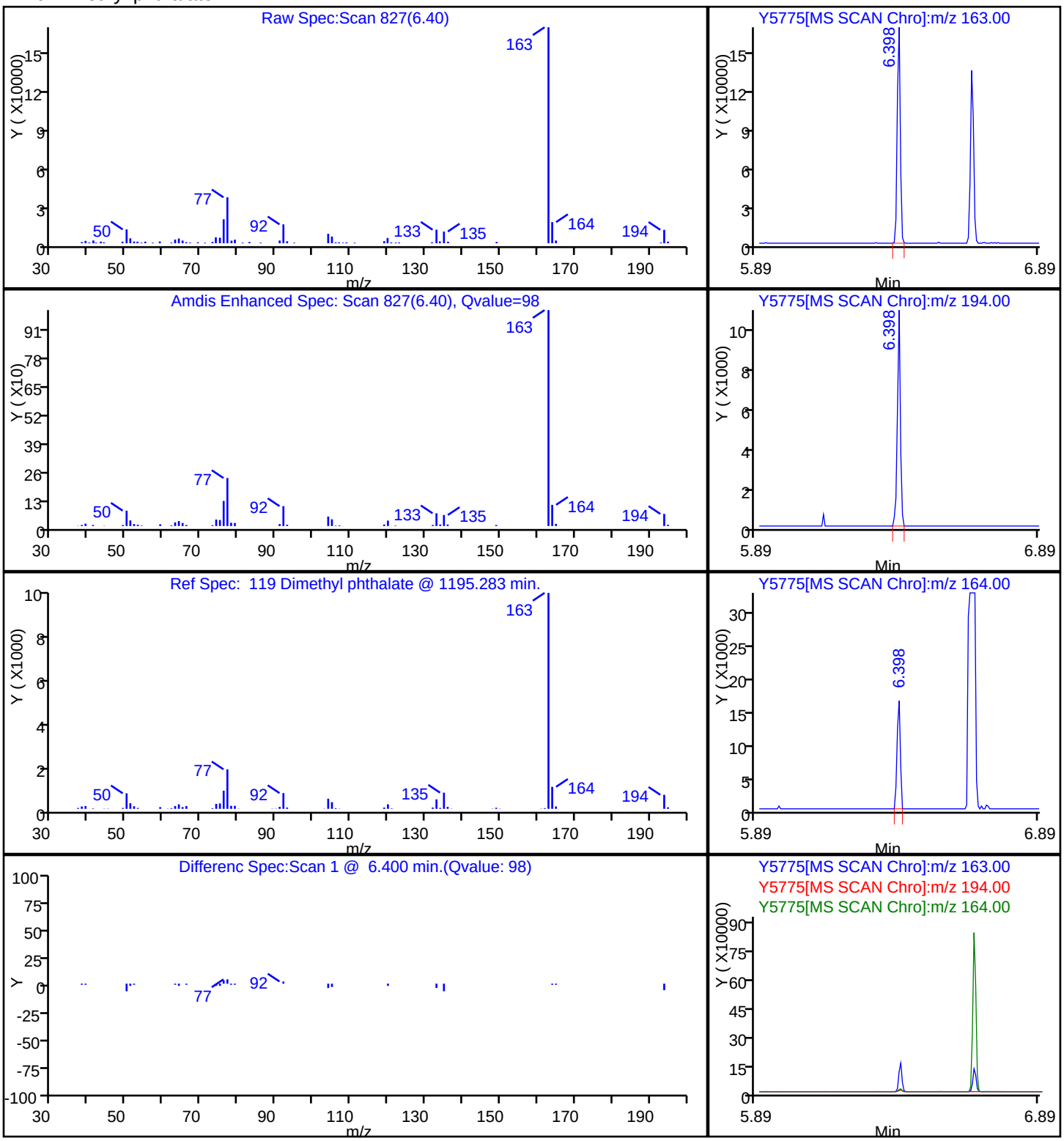
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

119 Dimethyl phthalate



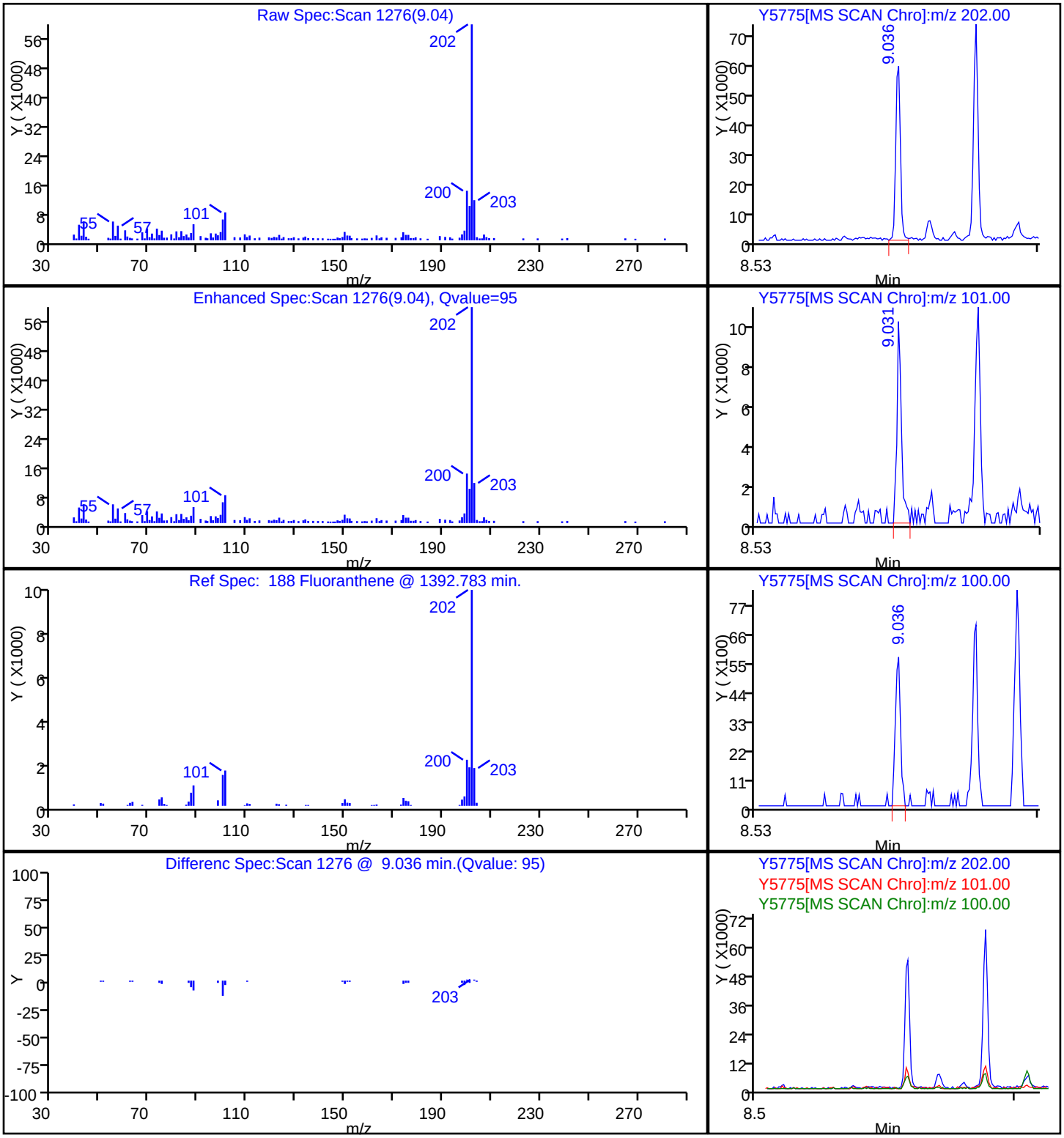
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

188 Fluoranthene



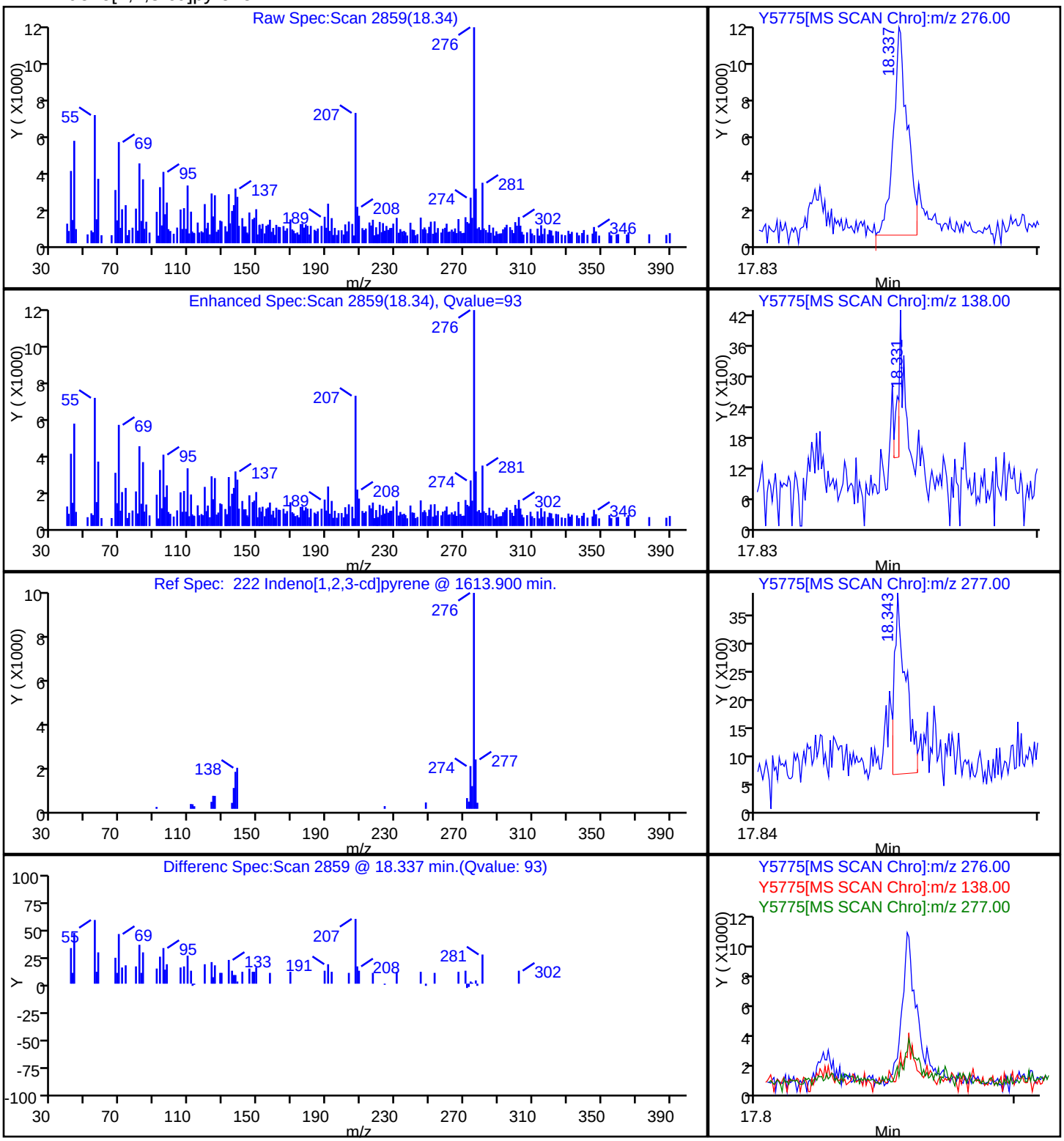
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene



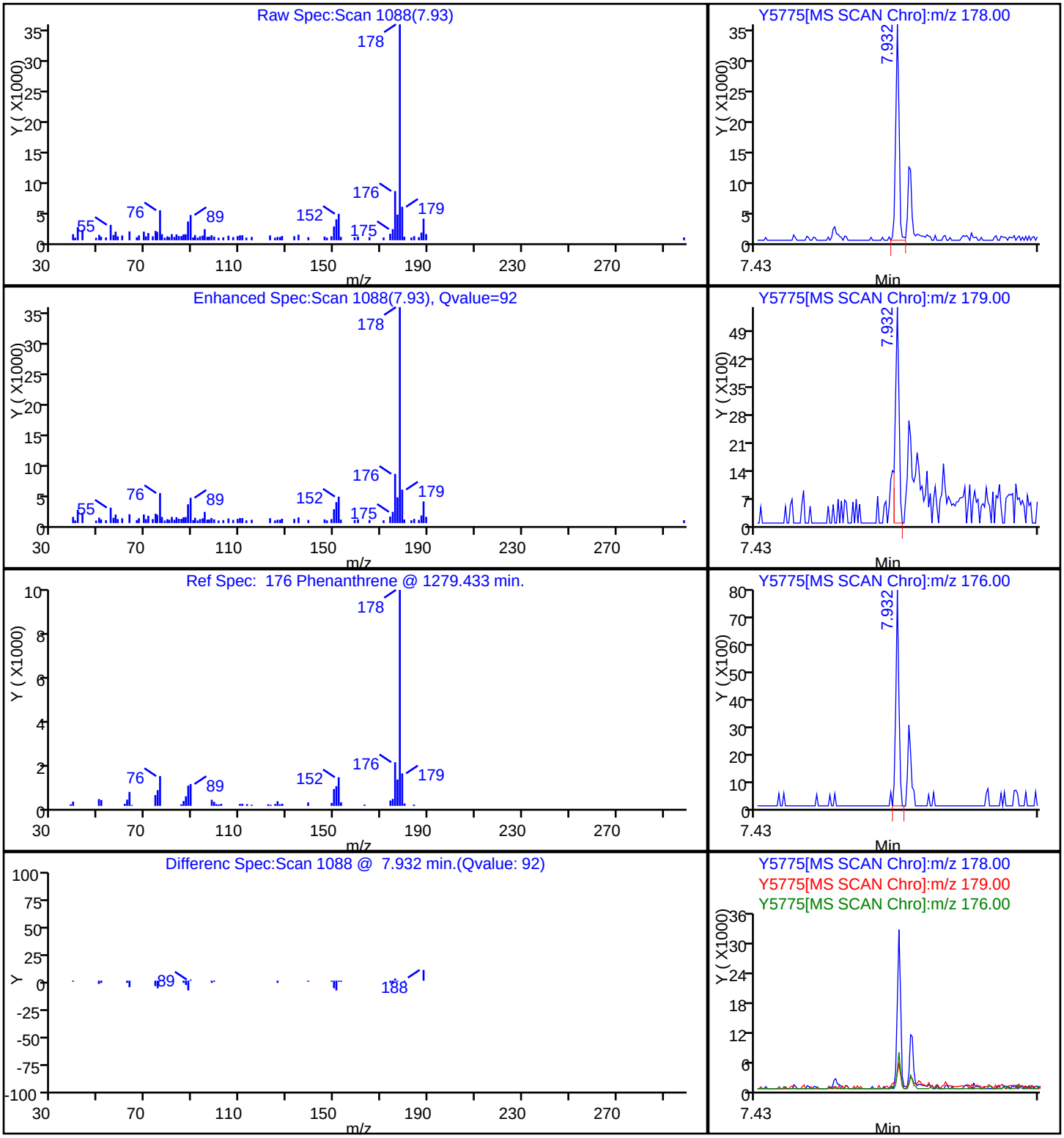
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

176 Phenanthrene



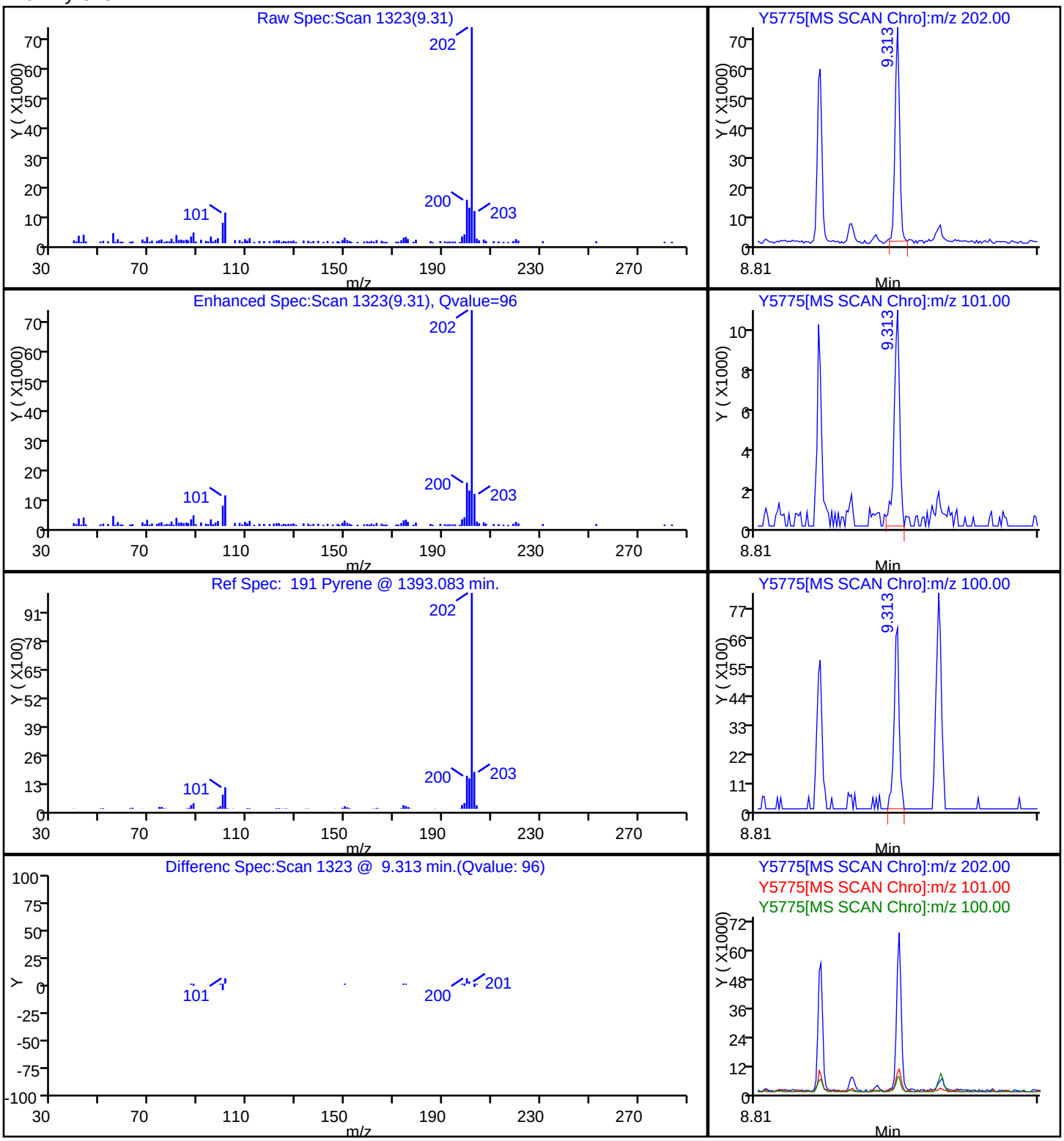
Report Date: 15-Aug-2013 10:01:54 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

191 Pyrene



Manual Integration/User Assign Peak Report

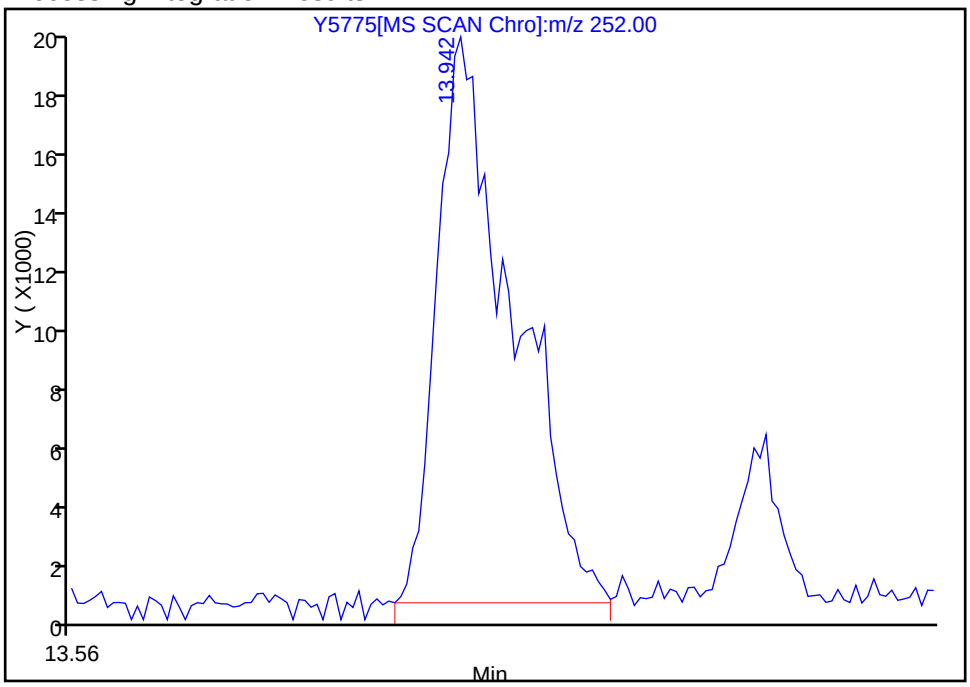
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D | | |
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

211 Benzo[b]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 13.93

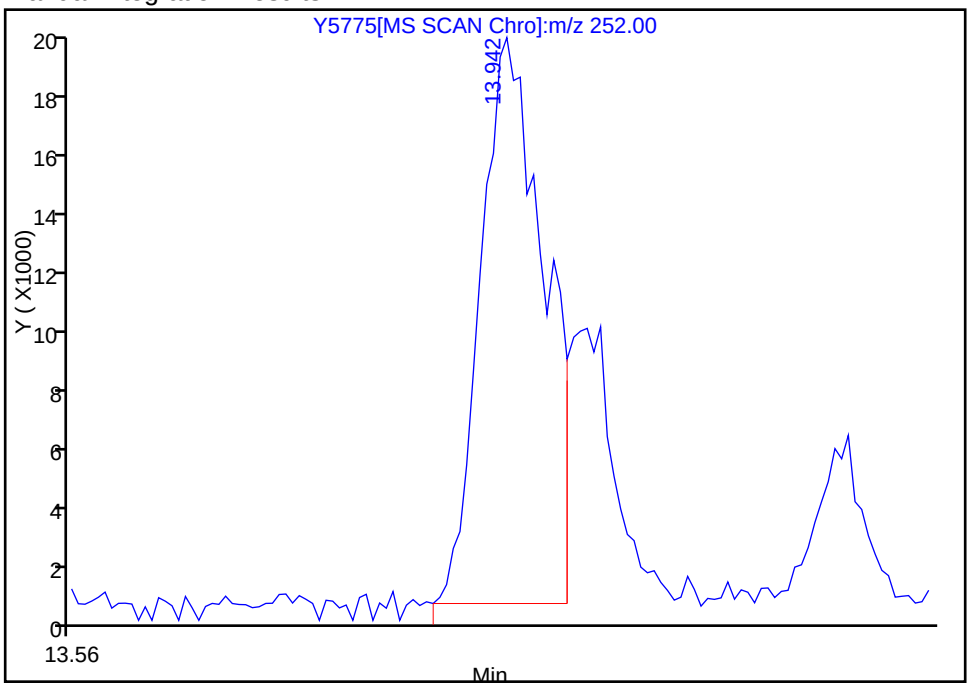
Processing Integration Results

RT: 13.94
Response: 97299
Amount: 3.115638




Manual Integration Results

RT: 13.94
Response: 73730
Amount: 2.360929




Reviewer: hoffmanm, 15-Aug-2013 09:52:23
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

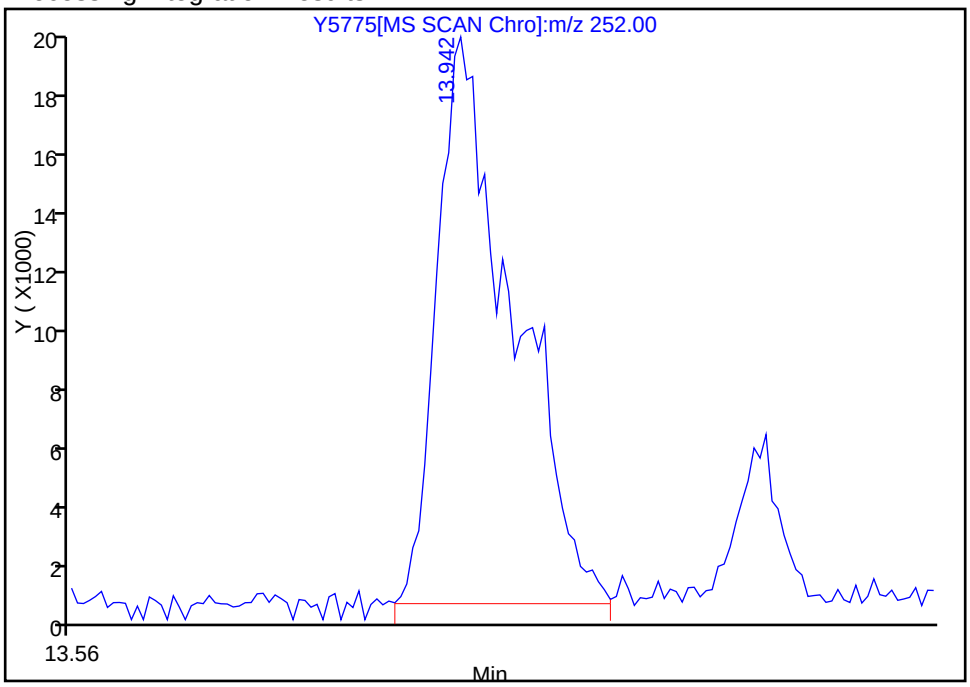
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5775.D | | |
| Injection Date: | 14-Aug-2013 20:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0908AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 25 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

212 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 14.01

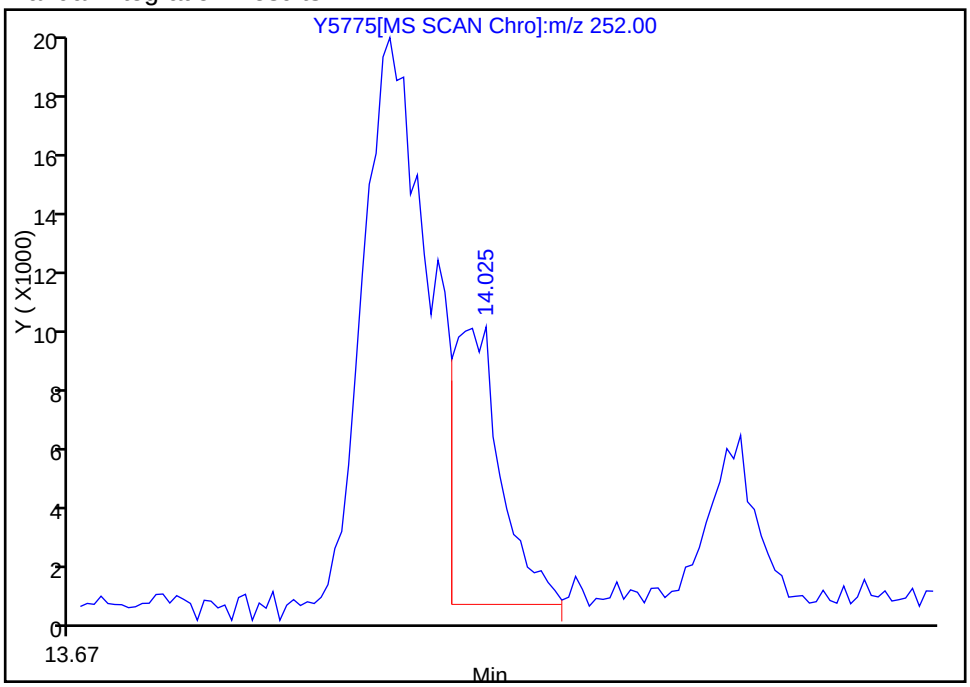
Processing Integration Results

RT: 13.94
Response: 97677
Amount: 2.823289




Manual Integration Results

RT: 14.02
Response: 26623
Amount: 0.769520




Reviewer: hoffmanm, 15-Aug-2013 09:52:23
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0912AA | Lab Sample ID: 280-45026-10

Matrix: Solid | Lab File ID: Y5776.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:05

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.9(g) | Date Analyzed: 08/14/2013 20:32

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 180 | U | 350 | 180 | 53 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 70 | U | 350 | 70 | 51 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 35 | U | 350 | 35 | 29 |
| 95-50-1 | 1,2-Dichlorobenzene | 35 | U | 350 | 35 | 23 |
| 122-66-7 | 1,2-Diphenylhydrazine | 35 | U | 350 | 35 | 23 |
| 541-73-1 | 1,3-Dichlorobenzene | 35 | U | 350 | 35 | 13 |
| 106-46-7 | 1,4-Dichlorobenzene | 35 | U | 350 | 35 | 14 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 35 | U | 350 | 35 | 24 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 180 | U | 1700 | 180 | 140 |
| 95-95-4 | 2,4,5-Trichlorophenol | 140 | U | 350 | 140 | 11 |
| 88-06-2 | 2,4,6-Trichlorophenol | 69 | U | 350 | 69 | 11 |
| 120-83-2 | 2,4-Dichlorophenol | 69 | U | 350 | 69 | 11 |
| 105-67-9 | 2,4-Dimethylphenol | 140 | U | 350 | 140 | 69 |
| 51-28-5 | 2,4-Dinitrophenol | 700 | U | 1700 | 700 | 350 |
| 121-14-2 | 2,4-Dinitrotoluene | 140 | U | 350 | 140 | 69 |
| 87-65-0 | 2,6-Dichlorophenol | 140 | U | 350 | 140 | 73 |
| 606-20-2 | 2,6-Dinitrotoluene | 69 | U | 350 | 69 | 29 |
| 91-58-7 | 2-Chloronaphthalene | 35 | U | 350 | 35 | 11 |
| 95-57-8 | 2-Chlorophenol | 35 | U | 350 | 35 | 22 |
| 91-57-6 | 2-Methylnaphthalene | 35 | U | 350 | 35 | 20 |
| 95-48-7 | 2-Methylphenol | 35 | U | 350 | 35 | 14 |
| 88-74-4 | 2-Nitroaniline | 69 | U | 1700 | 69 | 53 |
| 88-75-5 | 2-Nitrophenol | 69 | U | 350 | 69 | 11 |
| 15831-10-4 | 3 & 4 Methylphenol | 69 | U | 350 | 69 | 35 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U | 1700 | 350 | 95 |
| 99-09-2 | 3-Nitroaniline | 140 | U | 1700 | 140 | 77 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 690 | U | 1700 | 690 | 350 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 35 | U | 350 | 35 | 20 |
| 59-50-7 | 4-Chloro-3-methylphenol | 140 | U | 350 | 140 | 69 |
| 106-47-8 | 4-Chloroaniline | 140 | U | 350 | 140 | 86 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 69 | U | 350 | 69 | 22 |
| 100-01-6 | 4-Nitroaniline | 140 | U | 1700 | 140 | 76 |
| 100-02-7 | 4-Nitrophenol | 350 | U | 1700 | 350 | 100 |
| 83-32-9 | Acenaphthene | 18 | U | 350 | 18 | 11 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0912AA | Lab Sample ID: 280-45026-10

Matrix: Solid | Lab File ID: Y5776.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:05

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.9(g) | Date Analyzed: 08/14/2013 20:32

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 35 | U | 350 | 35 | 18 |
| 98-86-2 | Acetophenone | 35 | U | 350 | 35 | 21 |
| 120-12-7 | Anthracene | 35 | U | 350 | 35 | 18 |
| 1912-24-9 | Atrazine | 140 | U | 350 | 140 | 39 |
| 100-52-7 | Benzaldehyde | 70 | U | 350 | 70 | 41 |
| 92-87-5 | Benzidine | 4200 | U | 4200 | 4200 | 1000 |
| 56-55-3 | Benzo[a]anthracene | 35 | U | 350 | 35 | 21 |
| 50-32-8 | Benzo[a]pyrene | 35 | U | 350 | 35 | 21 |
| 205-99-2 | Benzo[b]fluoranthene | 35 | U | 350 | 35 | 28 |
| 191-24-2 | Benzo[g,h,i]perylene | 35 | U | 350 | 35 | 17 |
| 207-08-9 | Benzo[k]fluoranthene | 69 | U | 350 | 69 | 42 |
| 65-85-0 | Benzoic acid | 690 | U | 1700 | 690 | 350 |
| 100-51-6 | Benzyl alcohol | 35 | U | 350 | 35 | 11 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 69 | U | 350 | 69 | 24 |
| 111-44-4 | Bis(2-chloroethyl)ether | 35 | U | 350 | 35 | 17 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 69 | U | 350 | 69 | 48 |
| 85-68-7 | Butyl benzyl phthalate | 69 | U | 350 | 69 | 45 |
| 105-60-2 | Caprolactam | 350 | U | 1700 | 350 | 110 |
| 86-74-8 | Carbazole | 70 | U | 350 | 70 | 38 |
| 218-01-9 | Chrysene | 35 | U | 350 | 35 | 28 |
| 53-70-3 | Dibenz(a,h)anthracene | 35 | U | 350 | 35 | 20 |
| 132-64-9 | Dibenzofuran | 35 | U | 350 | 35 | 21 |
| 84-66-2 | Diethyl phthalate | 35 | U | 690 | 35 | 27 |
| 131-11-3 | Dimethyl phthalate | 140 | J | 350 | 35 | 24 |
| 84-74-2 | Di-n-butyl phthalate | 35 | U | 350 | 35 | 30 |
| 117-84-0 | Di-n-octyl phthalate | 69 | U | 350 | 69 | 15 |
| 206-44-0 | Fluoranthene | 69 | U | 350 | 69 | 38 |
| 86-73-7 | Fluorene | 35 | U | 350 | 35 | 19 |
| 118-74-1 | Hexachlorobenzene | 69 | U | 350 | 69 | 30 |
| 87-68-3 | Hexachlorobutadiene | 69 | U | 350 | 69 | 11 |
| 77-47-4 | Hexachlorocyclopentadiene | 69 | U | 1800 | 69 | 53 |
| 67-72-1 | Hexachloroethane | 35 | U | 350 | 35 | 22 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 35 | U | 350 | 35 | 23 |
| 78-59-1 | Isophorone | 35 | U | 350 | 35 | 18 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS0912AA | Lab Sample ID: 280-45026-10

Matrix: Solid | Lab File ID: Y5776.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:05

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.9(g) | Date Analyzed: 08/14/2013 20:32

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 69 | U | 350 | 69 | 33 |
| 98-95-3 | Nitrobenzene | 35 | U | 350 | 35 | 23 |
| 62-75-9 | N-Nitrosodimethylamine | 69 | U | 550 | 69 | 39 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 69 | U | 350 | 69 | 33 |
| 86-30-6 | N-Nitrosodiphenylamine | 35 | U | 350 | 35 | 22 |
| 930-55-2 | N-Nitrosopyrrolidine | 140 | U | 350 | 140 | 67 |
| 87-86-5 | Pentachlorophenol | 700 | U | 1700 | 700 | 350 |
| 85-01-8 | Phenanthrene | 35 | U | 350 | 35 | 18 |
| 108-95-2 | Phenol | 35 | U | 350 | 35 | 19 |
| 129-00-0 | Pyrene | 35 | U | 420 | 35 | 13 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 85 | | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 86 | | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 82 | | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 82 | | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 87 | | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 93 | | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5776.D
Lims ID: 280-45026-A-10-B
Client ID: B255SCS0912AA
Inject. Date: 14-Aug-2013 20:32:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-45026-a-10-b
Misc. Info.: 186667 =186667
Operator: hoffmanm
Instrument ID: SMS_Y
Injection Vol: 0.5 ul
ALS Bottle#: 24
Lims Batch ID: 187134
Lims Sample ID: 26
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41
Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE
ID Type: Deconvolution ID
Column Type: VF-5ms
Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm
Date: 15-Aug-2013 09:52:48

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.153 | 4.149 | 0.004 | 95 | 309899 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.192 | 5.189 | 0.003 | 99 | 1195100 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.661 | 6.658 | 0.003 | 90 | 711605 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.913 | 7.909 | 0.004 | 97 | 1206532 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.285 | 11.288 | -0.003 | 85 | 1271525 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.069 | 15.060 | 0.009 | 98 | 1219404 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.124 | 3.127 | 0.001 | 90 | 930335 | 82.4 | |
| $ 8 Phenol-d5 | 99 | 3.841 | 3.839 | 0.007 | 90 | 1201668 | 86.6 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.599 | 4.609 | -0.005 | 89 | 974517 | 82.3 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.074 | 6.072 | 0.002 | 99 | 1961116 | 85.6 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.325 | 7.324 | 0.001 | 92 | 422784 | 85.5 | |
| $ 13 Terphenyl-d14 | 244 | 9.464 | 9.457 | 0.007 | 99 | 2397296 | 93.4 | |
| 28 N-Nitrosodimethylamine | 74 | | 2.106 | | | | | |
| 39 Benzaldehyde | 106 | | 3.811 | | | | | |
| 40 Phenol | 94 | | 3.846 | | | | | |
| 45 Bis(2-chloroethyl)ether | 93 | | 3.922 | | | | | |
| 48 2-Chlorophenol | 128 | | 3.987 | | | | | 9 |
| 49 1,3-Dichlorobenzene | 146 | | 4.104 | | | | | |
| 50 1,4-Dichlorobenzene | 146 | | 4.163 | | | | | |
| 51 Benzyl alcohol | 108 | | 4.251 | | | | | 9 |
| 52 1,2-Dichlorobenzene | 146 | | 4.292 | | | | | |
| 54 2-Methylphenol | 108 | | 4.327 | | | | | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | | 4.339 | | | | | 9 |
| 60 3 & 4 Methylphenol | 108 | | 4.451 | | | | | 9 |
| 61 N-Nitrosodi-n-propylamine | 70 | | 4.451 | | | | | |
| 62 N-Nitrosopyrrolidine | 100 | | 4.460 | | | | | 9 |
| 63 Acetophenone | 105 | | 4.468 | | | | | |
| 66 Hexachloroethane | 117 | | 4.562 | | | | | |
| 67 Nitrobenzene | 77 | | 4.615 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 Isophorone | 82 | | 4.797 | | | | | 9 |
| 73 2,4-Dimethylphenol | 107 | | 4.880 | | | | | |
| 74 2-Nitrophenol | 139 | | 4.874 | | | | | |
| 77 Benzoic acid | 105 | | 4.974 | | | | | 9 |
| 78 Bis(2-chloroethoxy)methane | 93 | | 4.956 | | | | | |
| 82 2,4-Dichlorophenol | 162 | | 5.068 | | | | | |
| 84 1,2,4-Trichlorobenzene | 180 | | 5.138 | | | | | |
| 87 Naphthalene | 128 | | 5.209 | | | | | |
| 88 4-Chloroaniline | 127 | | 5.250 | | | | | |
| 89 2,6-Dichlorophenol | 162 | | 5.254 | | | | | |
| 91 Hexachlorobutadiene | 225 | | 5.285 | | | | | |
| 94 Caprolactam | 55 | | 5.538 | | | | | |
| 97 4-Chloro-3-methylphenol | 107 | | 5.632 | | | | | |
| 101 2-Methylnaphthalene | 142 | | 5.773 | | | | | |
| 105 Hexachlorocyclopentadiene | 237 | | 5.896 | | | | | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | | 5.914 | | | | | |
| 108 2,4,6-Trichlorophenol | 196 | | 6.008 | | | | | |
| 110 2,4,5-Trichlorophenol | 196 | | 6.043 | | | | | |
| 112 1,1'-Biphenyl | 154 | | 6.161 | | | | | |
| 114 2-Chloronaphthalene | 162 | | 6.190 | | | | | |
| 116 2-Nitroaniline | 65 | | 6.278 | | | | | 9 |
| 119 Dimethyl phthalate | 163 | 6.397 | 6.396 | 0.001 | 98 | 87450 | 4.05 | |
| 121 2,6-Dinitrotoluene | 165 | | 6.466 | | | | | 9 |
| 122 Acenaphthylene | 152 | | 6.542 | | | | | 9 |
| 123 3-Nitroaniline | 138 | | 6.625 | | | | | |
| 124 Acenaphthene | 153 | | 6.683 | | | | | 9 |
| 126 2,4-Dinitrophenol | 184 | | 6.707 | | | | | |
| 127 4-Nitrophenol | 109 | | 6.760 | | | | | 9 |
| 130 2,4-Dinitrotoluene | 165 | | 6.807 | | | | | |
| 132 Dibenzofuran | 168 | | 6.824 | | | | | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | | 6.924 | | | | | |
| 139 Diethyl phthalate | 149 | | 6.977 | | | | | 9 |
| 142 4-Chlorophenyl phenyl ether | 204 | | 7.095 | | | | | |
| 143 Fluorene | 166 | | 7.112 | | | | | |
| 146 4-Nitroaniline | 138 | | 7.148 | | | | | |
| 147 4,6-Dinitro-2-methylphenol | 198 | | 7.153 | | | | | |
| 150 N-Nitrosodiphenylamine | 169 | | 7.200 | | | | | |
| 151 1,2-Diphenylhydrazine | 77 | | 7.230 | | | | | 9 |
| 164 4-Bromophenyl phenyl ether | 248 | | 7.506 | | | | | |
| 165 Hexachlorobenzene | 284 | | 7.577 | | | | | |
| 167 Atrazine | 200 | | 7.624 | | | | | |
| 171 Pentachlorophenol | 266 | | 7.747 | | | | | |
| 176 Phenanthrene | 178 | | 7.929 | | | | | 9 |
| 177 Anthracene | 178 | | 7.976 | | | | | 9 |
| 178 Carbazole | 167 | | 8.111 | | | | | 9 |
| 181 Di-n-butyl phthalate | 149 | | 8.329 | | | | | |
| 188 Fluoranthene | 202 | | 9.034 | | | | | |
| 189 Benzidine | 184 | | 9.175 | | | | | 9 |
| 191 Pyrene | 202 | | 9.310 | | | | | |
| 198 Butyl benzyl phthalate | 149 | | 10.150 | | | | | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.215 | 11.213 | 0.002 | 62 | 15433 | 0.8363 | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.225 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 206 Benzo[a]anthracene | 228 | | 11.260 | | | | | |
| 207 Chrysene | 228 | | 11.343 | | | | | |
| 209 Di-n-octyl phthalate | 149 | | 12.853 | | | | | |
| 211 Benzo[b]fluoranthene | 252 | | 13.934 | | | | | |
| 212 Benzo[k]fluoranthene | 252 | | 14.010 | | | | | |
| 215 Benzo[a]pyrene | 252 | | 14.880 | | | | | |
| 221 Dibenz(a,h)anthracene | 278 | | 18.434 | | | | | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | | 18.346 | | | | | |
| 223 Benzo[g,h,i]perylene | 276 | | 19.134 | | | | | |

QC Flag Legend

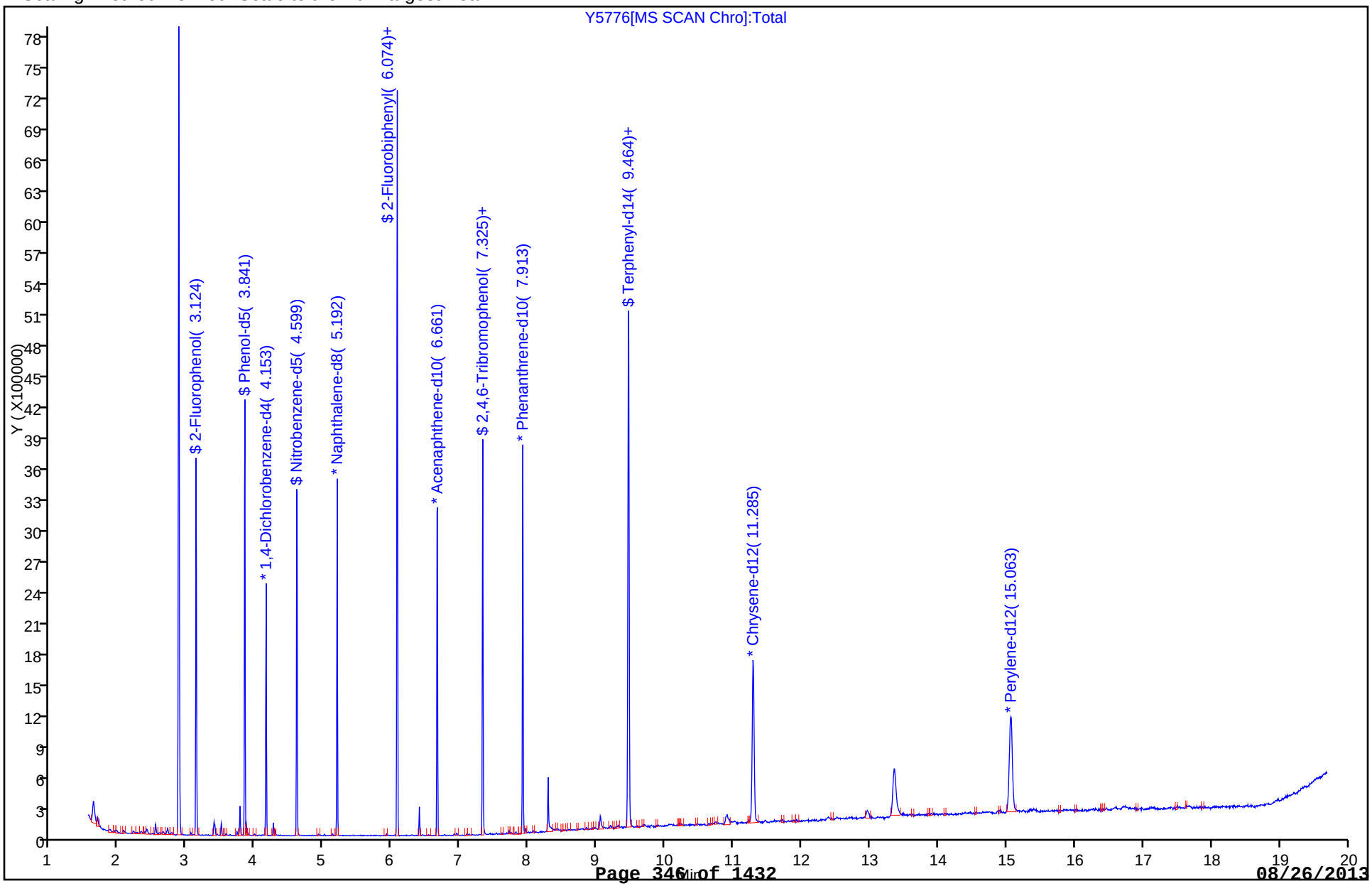
Processing Flags
9 - Failed A Reference Spectral Test

Report Date: 15-Aug-2013 10:01:55 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5776.D | | |
| Injection Date: | 14-Aug-2013 20:32:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0912AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 26 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



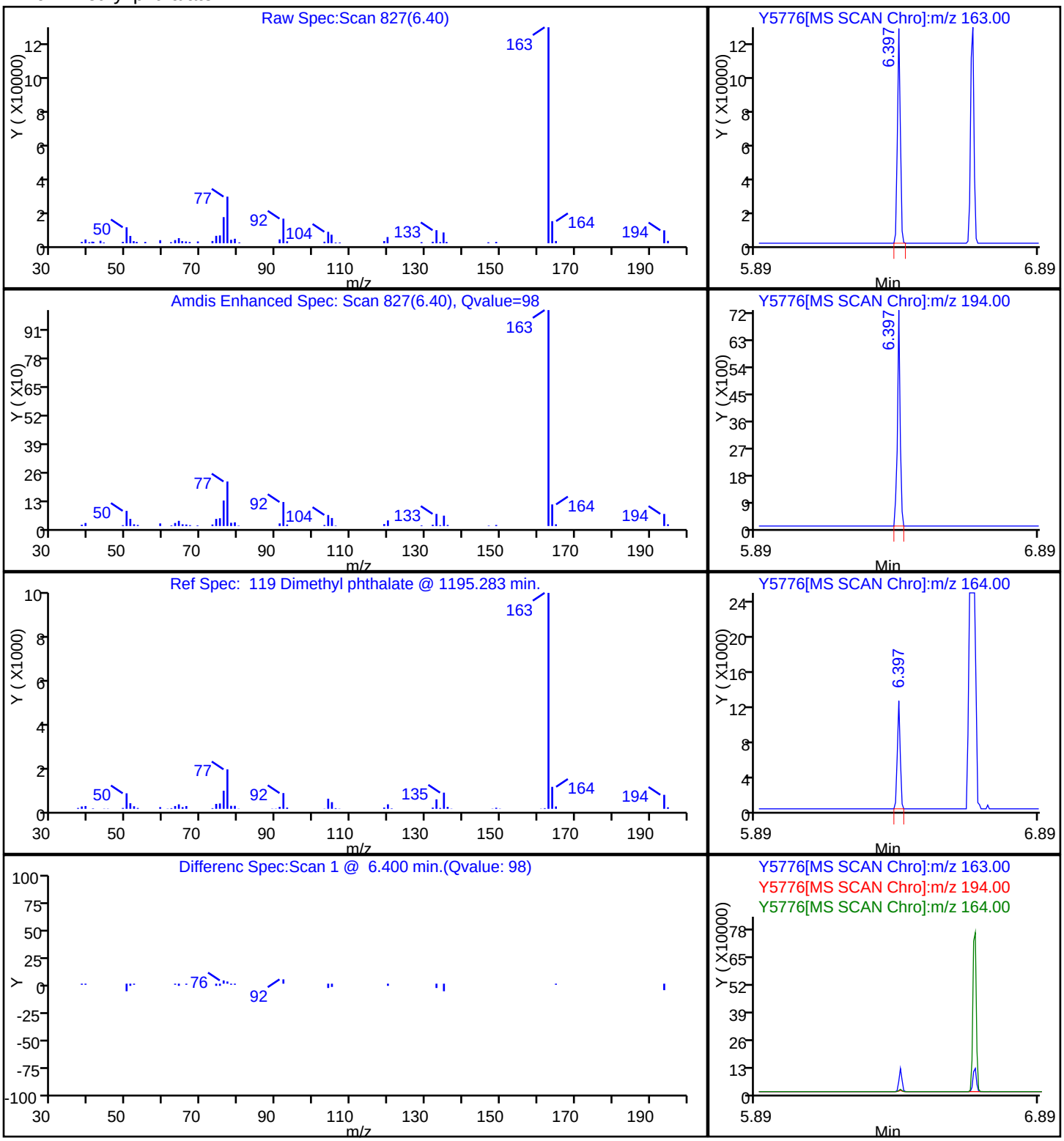
Report Date: 15-Aug-2013 10:01:55 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5776.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:32:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS0912AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 26 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

119 Dimethyl phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1004AA | Lab Sample ID: 280-45026-11

Matrix: Solid | Lab File ID: Y5777.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:10

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.3(g) | Date Analyzed: 08/14/2013 20:59

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 190 | U | 370 | 190 | 57 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 76 | U | 370 | 76 | 56 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 37 | U | 370 | 37 | 32 |
| 95-50-1 | 1,2-Dichlorobenzene | 37 | U | 370 | 37 | 25 |
| 122-66-7 | 1,2-Diphenylhydrazine | 37 | U | 370 | 37 | 25 |
| 541-73-1 | 1,3-Dichlorobenzene | 37 | U | 370 | 37 | 14 |
| 106-46-7 | 1,4-Dichlorobenzene | 37 | U | 370 | 37 | 15 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 37 | U | 370 | 37 | 26 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 190 | U | 1800 | 190 | 160 |
| 95-95-4 | 2,4,5-Trichlorophenol | 150 | U | 370 | 150 | 11 |
| 88-06-2 | 2,4,6-Trichlorophenol | 75 | U | 370 | 75 | 11 |
| 120-83-2 | 2,4-Dichlorophenol | 75 | U | 370 | 75 | 11 |
| 105-67-9 | 2,4-Dimethylphenol | 150 | U | 370 | 150 | 75 |
| 51-28-5 | 2,4-Dinitrophenol | 760 | U | 1800 | 760 | 380 |
| 121-14-2 | 2,4-Dinitrotoluene | 150 | U | 370 | 150 | 75 |
| 87-65-0 | 2,6-Dichlorophenol | 150 | U | 370 | 150 | 78 |
| 606-20-2 | 2,6-Dinitrotoluene | 75 | U | 370 | 75 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 37 | U | 370 | 37 | 11 |
| 95-57-8 | 2-Chlorophenol | 37 | U | 370 | 37 | 24 |
| 91-57-6 | 2-Methylnaphthalene | 37 | U | 370 | 37 | 22 |
| 95-48-7 | 2-Methylphenol | 37 | U | 370 | 37 | 15 |
| 88-74-4 | 2-Nitroaniline | 75 | U | 1800 | 75 | 57 |
| 88-75-5 | 2-Nitrophenol | 75 | U | 370 | 75 | 11 |
| 15831-10-4 | 3 & 4 Methylphenol | 75 | U | 370 | 75 | 37 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 370 | U | 1800 | 370 | 100 |
| 99-09-2 | 3-Nitroaniline | 150 | U | 1800 | 150 | 83 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 750 | U | 1800 | 750 | 370 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 37 | U | 370 | 37 | 22 |
| 59-50-7 | 4-Chloro-3-methylphenol | 150 | U | 370 | 150 | 75 |
| 106-47-8 | 4-Chloroaniline | 150 | U | 370 | 150 | 93 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 75 | U | 370 | 75 | 24 |
| 100-01-6 | 4-Nitroaniline | 150 | U | 1800 | 150 | 82 |
| 100-02-7 | 4-Nitrophenol | 370 | U | 1800 | 370 | 110 |
| 83-32-9 | Acenaphthene | 19 | U | 370 | 19 | 12 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1004AA | Lab Sample ID: 280-45026-11

Matrix: Solid | Lab File ID: Y5777.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:10

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.3(g) | Date Analyzed: 08/14/2013 20:59

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 37 | U | 370 | 37 | 19 |
| 98-86-2 | Acetophenone | 37 | U | 370 | 37 | 23 |
| 120-12-7 | Anthracene | 37 | U | 370 | 37 | 19 |
| 1912-24-9 | Atrazine | 150 | U | 370 | 150 | 42 |
| 100-52-7 | Benzaldehyde | 76 | U | 370 | 76 | 44 |
| 92-87-5 | Benzidine | 4500 | U | 4500 | 4500 | 1100 |
| 56-55-3 | Benzo[a]anthracene | 37 | U | 370 | 37 | 23 |
| 50-32-8 | Benzo[a]pyrene | 37 | U M | 370 | 37 | 23 |
| 205-99-2 | Benzo[b]fluoranthene | 37 | U | 370 | 37 | 30 |
| 191-24-2 | Benzo[g,h,i]perylene | 37 | U | 370 | 37 | 18 |
| 207-08-9 | Benzo[k]fluoranthene | 75 | U | 370 | 75 | 45 |
| 65-85-0 | Benzoic acid | 750 | U | 1800 | 750 | 370 |
| 100-51-6 | Benzyl alcohol | 37 | U | 370 | 37 | 11 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 75 | U | 370 | 75 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 37 | U | 370 | 37 | 19 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 75 | U | 370 | 75 | 52 |
| 85-68-7 | Butyl benzyl phthalate | 75 | U | 370 | 75 | 49 |
| 105-60-2 | Caprolactam | 370 | U | 1800 | 370 | 120 |
| 86-74-8 | Carbazole | 76 | U | 370 | 76 | 41 |
| 218-01-9 | Chrysene | 37 | U | 370 | 37 | 31 |
| 53-70-3 | Dibenz(a,h)anthracene | 37 | U | 370 | 37 | 22 |
| 132-64-9 | Dibenzofuran | 37 | U | 370 | 37 | 23 |
| 84-66-2 | Diethyl phthalate | 37 | U | 750 | 37 | 29 |
| 131-11-3 | Dimethyl phthalate | 350 | J | 370 | 37 | 26 |
| 84-74-2 | Di-n-butyl phthalate | 37 | U | 370 | 37 | 33 |
| 117-84-0 | Di-n-octyl phthalate | 75 | U | 370 | 75 | 16 |
| 206-44-0 | Fluoranthene | 75 | U | 370 | 75 | 41 |
| 86-73-7 | Fluorene | 37 | U | 370 | 37 | 20 |
| 118-74-1 | Hexachlorobenzene | 75 | U | 370 | 75 | 33 |
| 87-68-3 | Hexachlorobutadiene | 75 | U | 370 | 75 | 11 |
| 77-47-4 | Hexachlorocyclopentadiene | 75 | U | 1900 | 75 | 57 |
| 67-72-1 | Hexachloroethane | 37 | U | 370 | 37 | 24 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 37 | U | 370 | 37 | 25 |
| 78-59-1 | Isophorone | 37 | U | 370 | 37 | 19 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1004AA | Lab Sample ID: 280-45026-11

Matrix: Solid | Lab File ID: Y5777.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:10

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.3(g) | Date Analyzed: 08/14/2013 20:59

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 75 | U | 370 | 75 | 35 |
| 98-95-3 | Nitrobenzene | 37 | U | 370 | 37 | 25 |
| 62-75-9 | N-Nitrosodimethylamine | 75 | U | 590 | 75 | 42 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 75 | U | 370 | 75 | 35 |
| 86-30-6 | N-Nitrosodiphenylamine | 37 | U | 370 | 37 | 24 |
| 930-55-2 | N-Nitrosopyrrolidine | 150 | U | 370 | 150 | 73 |
| 87-86-5 | Pentachlorophenol | 760 | U | 1800 | 760 | 370 |
| 85-01-8 | Phenanthrene | 21 | J | 370 | 37 | 19 |
| 108-95-2 | Phenol | 37 | U | 370 | 37 | 20 |
| 129-00-0 | Pyrene | 44 | J | 450 | 37 | 14 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 84 | | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 80 | | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 79 | | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 78 | | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 81 | | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 91 | | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5777.D
Lims ID: 280-45026-A-11-A
Client ID: B255SCS1004AA
Inject. Date: 14-Aug-2013 20:59:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-45026-a-11-a
Misc. Info.: 186667 =186667
Operator: hoffmanm
Instrument ID: SMS_Y
Injection Vol: 0.5 ul
ALS Bottle#: 25
Lims Batch ID: 187134
Lims Sample ID: 27
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41
Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE
ID Type: Deconvolution ID
Column Type: VF-5ms
Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm
Date: 15-Aug-2013 09:53:35

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.152 | 4.149 | 0.003 | 95 | 312059 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.192 | 5.189 | 0.003 | 99 | 1210743 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.655 | 6.658 | -0.003 | 90 | 719563 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.913 | 7.909 | 0.004 | 97 | 1216241 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.285 | 11.288 | -0.003 | 80 | 1260833 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.063 | 15.060 | 0.003 | 98 | 1223950 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.124 | 3.127 | 0.001 | 90 | 898197 | 79.0 | |
| $ 8 Phenol-d5 | 99 | 3.841 | 3.839 | 0.007 | 82 | 1131130 | 80.9 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.599 | 4.609 | -0.005 | 88 | 938021 | 78.2 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.074 | 6.072 | 0.002 | 99 | 1850896 | 79.9 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.325 | 7.324 | 0.001 | 91 | 422055 | 84.4 | |
| $ 13 Terphenyl-d14 | 244 | 9.464 | 9.457 | 0.007 | 98 | 2321827 | 91.3 | |
| 28 N-Nitrosodimethylamine | 74 | | 2.106 | | | | | |
| 39 Benzaldehyde | 106 | | 3.811 | | | | | 9 |
| 40 Phenol | 94 | | 3.846 | | | | | 9 |
| 45 Bis(2-chloroethyl)ether | 93 | | 3.922 | | | | | 9 |
| 48 2-Chlorophenol | 128 | | 3.987 | | | | | |
| 49 1,3-Dichlorobenzene | 146 | | 4.104 | | | | | |
| 50 1,4-Dichlorobenzene | 146 | | 4.163 | | | | | |
| 51 Benzyl alcohol | 108 | | 4.251 | | | | | 9 |
| 52 1,2-Dichlorobenzene | 146 | | 4.292 | | | | | |
| 54 2-Methylphenol | 108 | | 4.327 | | | | | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | | 4.339 | | | | | |
| 60 3 & 4 Methylphenol | 108 | | 4.451 | | | | | |
| 61 N-Nitrosodi-n-propylamine | 70 | | 4.451 | | | | | |
| 62 N-Nitrosopyrrolidine | 100 | | 4.460 | | | | | 9 |
| 63 Acetophenone | 105 | | 4.468 | | | | | 9 |
| 66 Hexachloroethane | 117 | | 4.562 | | | | | |
| 67 Nitrobenzene | 77 | | 4.615 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 Isophorone | 82 | | 4.797 | | | | | 9 |
| 73 2,4-Dimethylphenol | 107 | | 4.880 | | | | | |
| 74 2-Nitrophenol | 139 | | 4.874 | | | | | |
| 77 Benzoic acid | 105 | | 4.974 | | | | | |
| 78 Bis(2-chloroethoxy)methane | 93 | | 4.956 | | | | | |
| 82 2,4-Dichlorophenol | 162 | | 5.068 | | | | | |
| 84 1,2,4-Trichlorobenzene | 180 | | 5.138 | | | | | |
| 87 Naphthalene | 128 | | 5.209 | | | | | |
| 88 4-Chloroaniline | 127 | | 5.250 | | | | | |
| 89 2,6-Dichlorophenol | 162 | | 5.254 | | | | | |
| 91 Hexachlorobutadiene | 225 | | 5.285 | | | | | |
| 94 Caprolactam | 55 | | 5.538 | | | | | |
| 97 4-Chloro-3-methylphenol | 107 | | 5.632 | | | | | |
| 101 2-Methylnaphthalene | 142 | | 5.773 | | | | | 9 |
| 105 Hexachlorocyclopentadiene | 237 | | 5.896 | | | | | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | | 5.914 | | | | | |
| 108 2,4,6-Trichlorophenol | 196 | | 6.008 | | | | | |
| 110 2,4,5-Trichlorophenol | 196 | | 6.043 | | | | | |
| 112 1,1'-Biphenyl | 154 | | 6.161 | | | | | |
| 114 2-Chloronaphthalene | 162 | | 6.190 | | | | | |
| 116 2-Nitroaniline | 65 | | 6.278 | | | | | |
| 119 Dimethyl phthalate | 163 | 6.397 | 6.396 | 0.001 | 98 | 203002 | 9.30 | |
| 121 2,6-Dinitrotoluene | 165 | | 6.466 | | | | | 9 |
| 122 Acenaphthylene | 152 | | 6.542 | | | | | 9 |
| 123 3-Nitroaniline | 138 | | 6.625 | | | | | |
| 124 Acenaphthene | 153 | | 6.683 | | | | | |
| 126 2,4-Dinitrophenol | 184 | | 6.707 | | | | | |
| 127 4-Nitrophenol | 109 | | 6.760 | | | | | 9 |
| 130 2,4-Dinitrotoluene | 165 | | 6.807 | | | | | |
| 132 Dibenzofuran | 168 | | 6.824 | | | | | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | | 6.924 | | | | | |
| 139 Diethyl phthalate | 149 | | 6.977 | | | | | 9 |
| 142 4-Chlorophenyl phenyl ether | 204 | | 7.095 | | | | | |
| 143 Fluorene | 166 | | 7.112 | | | | | 9 |
| 146 4-Nitroaniline | 138 | | 7.148 | | | | | |
| 147 4,6-Dinitro-2-methylphenol | 198 | | 7.153 | | | | | |
| 150 N-Nitrosodiphenylamine | 169 | | 7.200 | | | | | |
| 151 1,2-Diphenylhydrazine | 77 | | 7.230 | | | | | 9 |
| 164 4-Bromophenyl phenyl ether | 248 | | 7.506 | | | | | |
| 165 Hexachlorobenzene | 284 | | 7.577 | | | | | |
| 167 Atrazine | 200 | | 7.624 | | | | | |
| 171 Pentachlorophenol | 266 | | 7.747 | | | | | |
| 176 Phenanthrene | 178 | 7.930 | 7.936 | 0.001 | 85 | 17391 | 0.5516 | |
| 177 Anthracene | 178 | | 7.976 | | | | | |
| 178 Carbazole | 167 | | 8.111 | | | | | 9 |
| 181 Di-n-butyl phthalate | 149 | | 8.329 | | | | | |
| 188 Fluoranthene | 202 | 9.035 | 9.040 | 0.001 | 94 | 35499 | 1.02 | |
| 189 Benzidine | 184 | | 9.175 | | | | | |
| 191 Pyrene | 202 | 9.311 | 9.316 | 0.001 | 95 | 38100 | 1.17 | |
| 198 Butyl benzyl phthalate | 149 | | 10.150 | | | | | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | | 11.213 | | | | | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.225 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 206 Benzo[a]anthracene | 228 | 11.268 | 11.260 | 0.008 | 33 | 18388 | 0.5925 | |
| 207 Chrysene | 228 | 11.338 | 11.343 | -0.005 | 72 | 23483 | 0.7961 | |
| 209 Di-n-octyl phthalate | 149 | | 12.853 | | | | | |
| 211 Benzo[b]fluoranthene | 252 | | 13.934 | | | | | |
| 212 Benzo[k]fluoranthene | 252 | | 14.010 | | | | | |
| 215 Benzo[a]pyrene | 252 | 14.881 | 14.881 | 0.001 | 41 | 17998 | 0.5689 | M |
| 221 Dibenz(a,h)anthracene | 278 | | 18.434 | | | | | 9 |
| 222 Indeno[1,2,3-cd]pyrene | 276 | | 18.346 | | | | | |
| 223 Benzo[g,h,i]perylene | 276 | | 19.134 | | | | | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

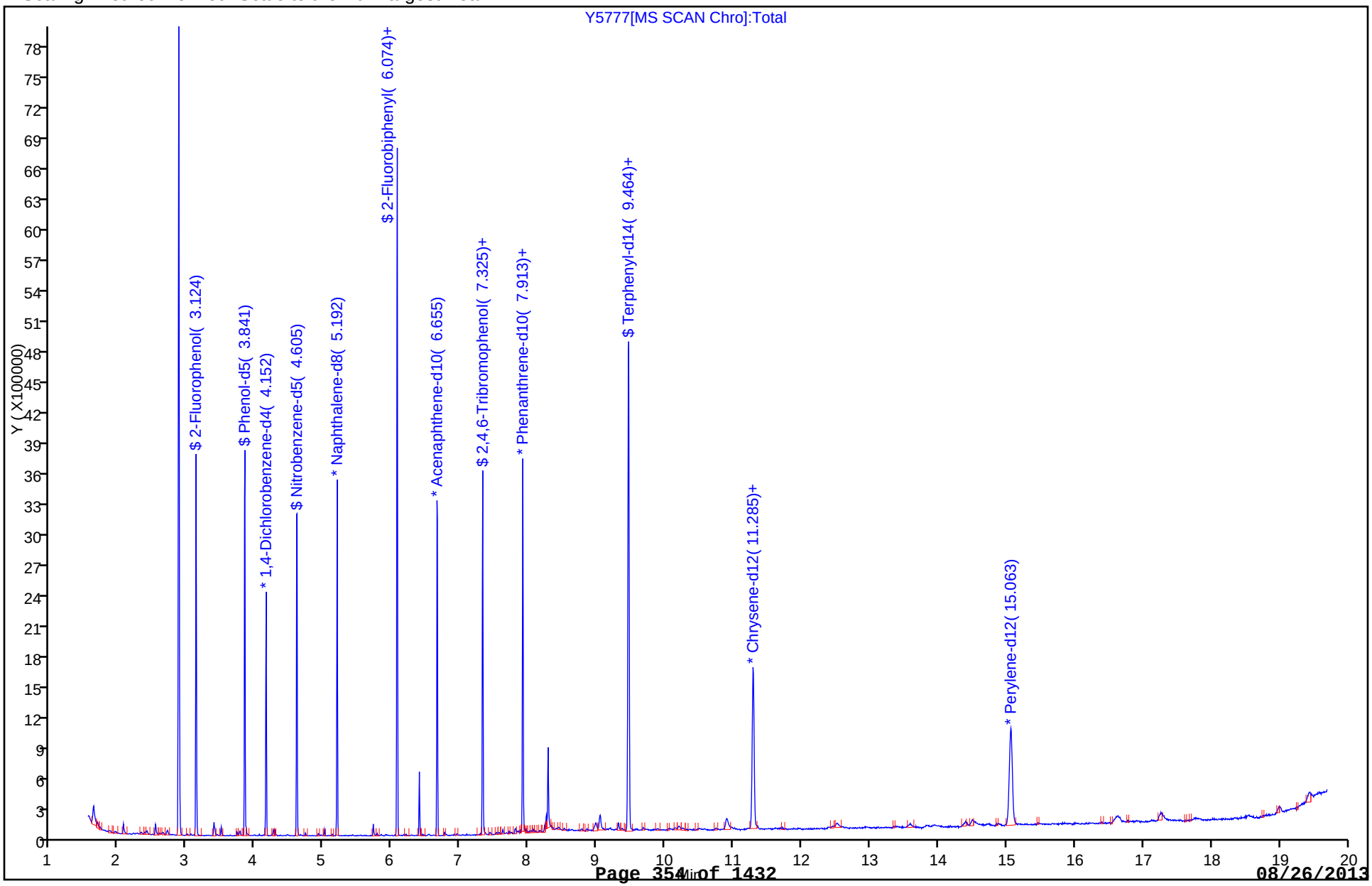
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5777.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:59:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1004AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 27 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



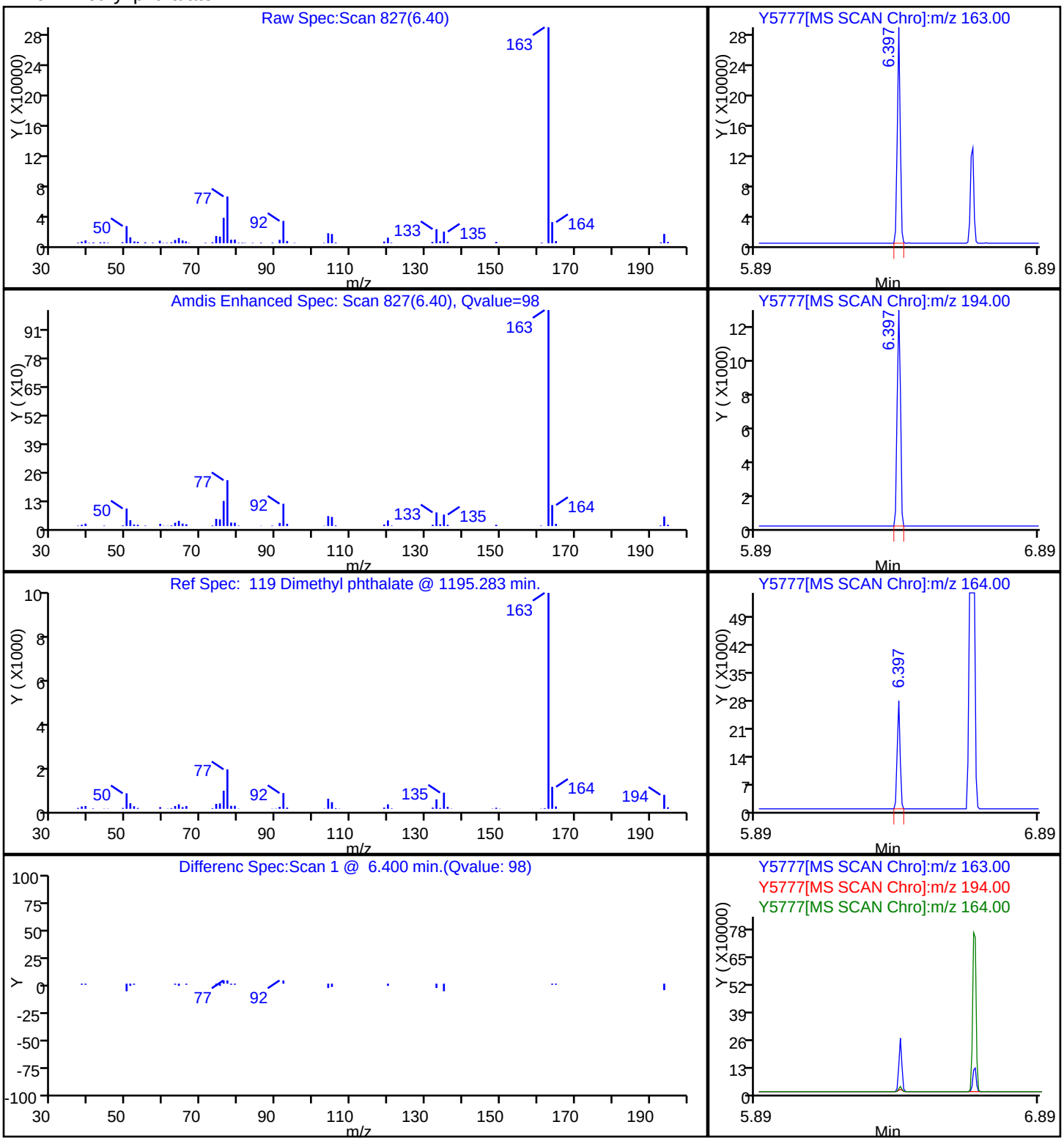
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5777.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:59:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1004AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 27 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

119 Dimethyl phthalate



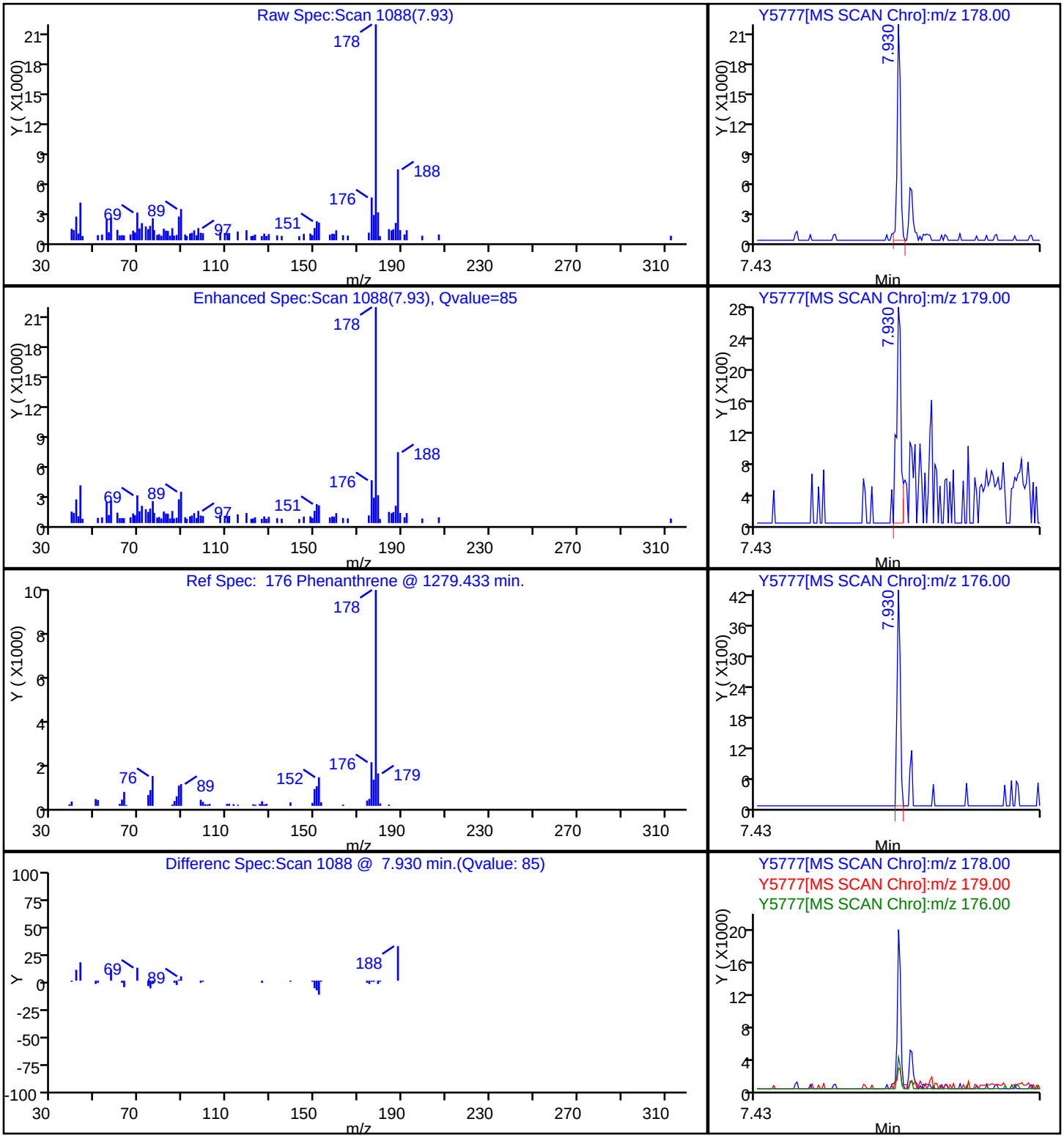
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5777.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 20:59:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1004AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 27 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

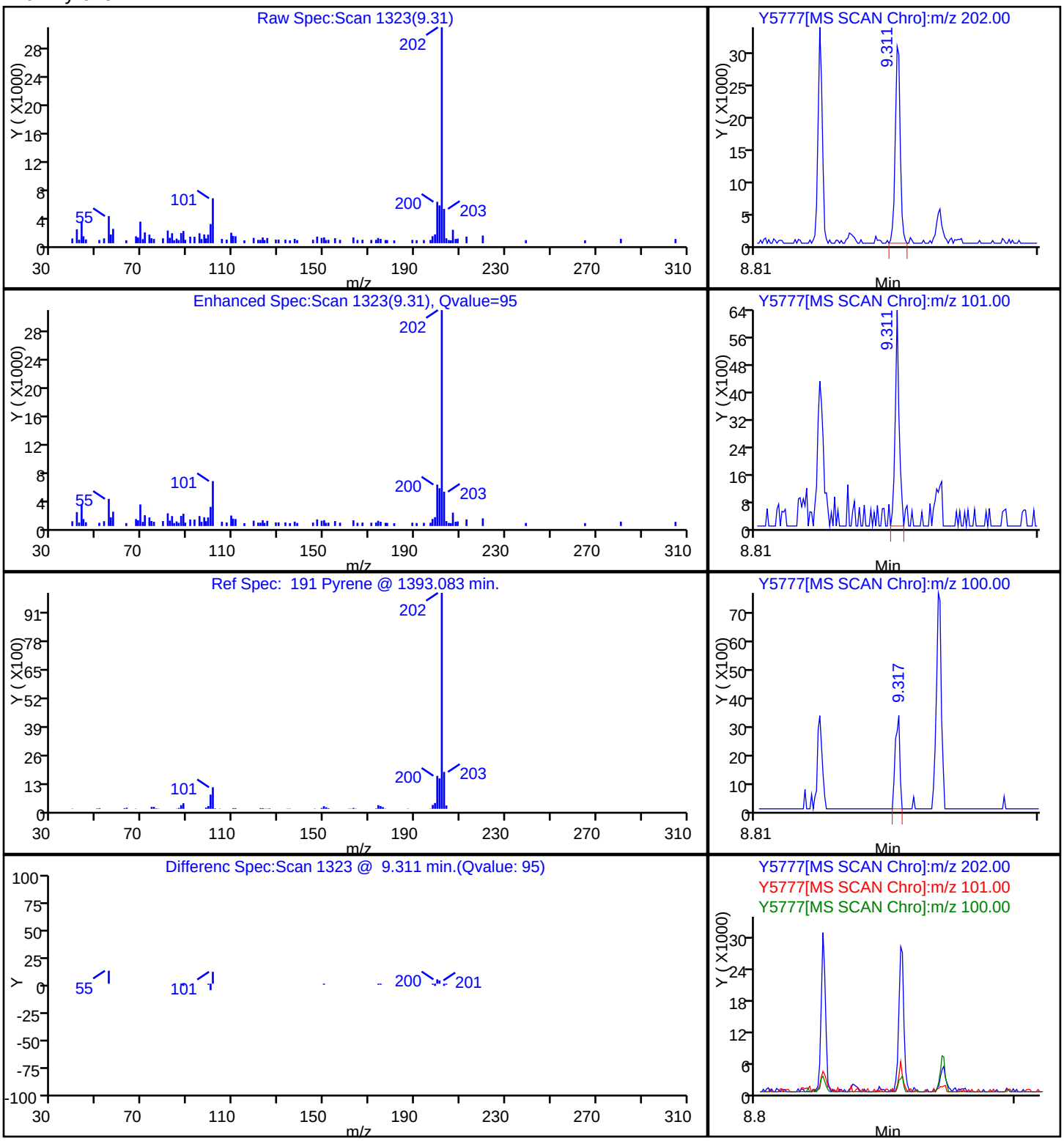
176 Phenanthrene



TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5777.D | | |
| Injection Date: | 14-Aug-2013 20:59:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1004AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 27 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

191 Pyrene



Manual Integration/User Assign Peak Report

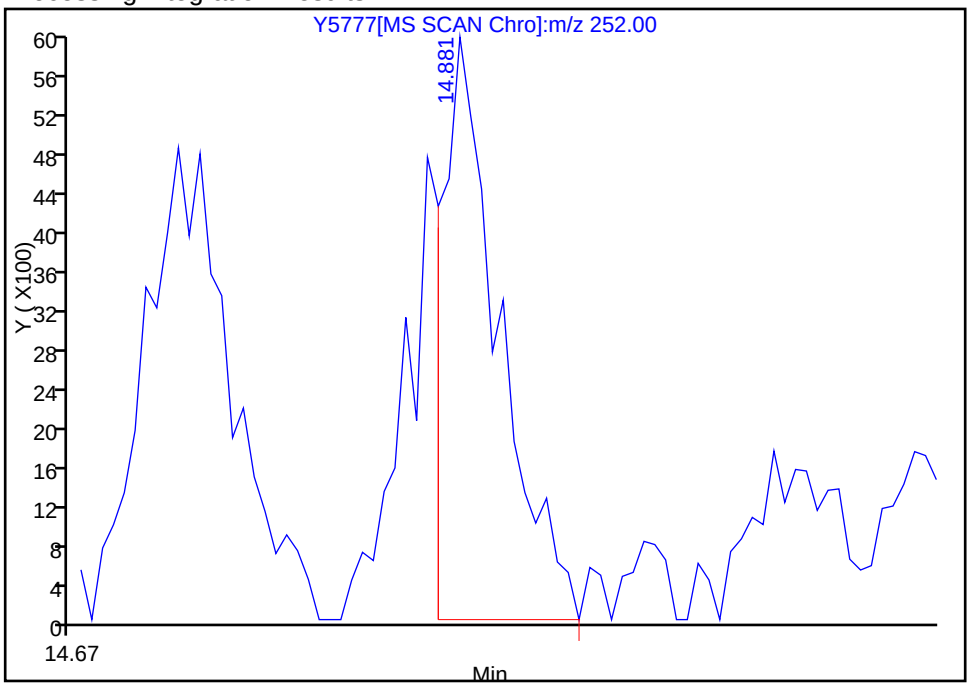
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5777.D | | |
| Injection Date: | 14-Aug-2013 20:59:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1004AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 27 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

215 Benzo[a]pyrene, Signal: 1, m/z: 252.0 Type: quant, RT: 14.88

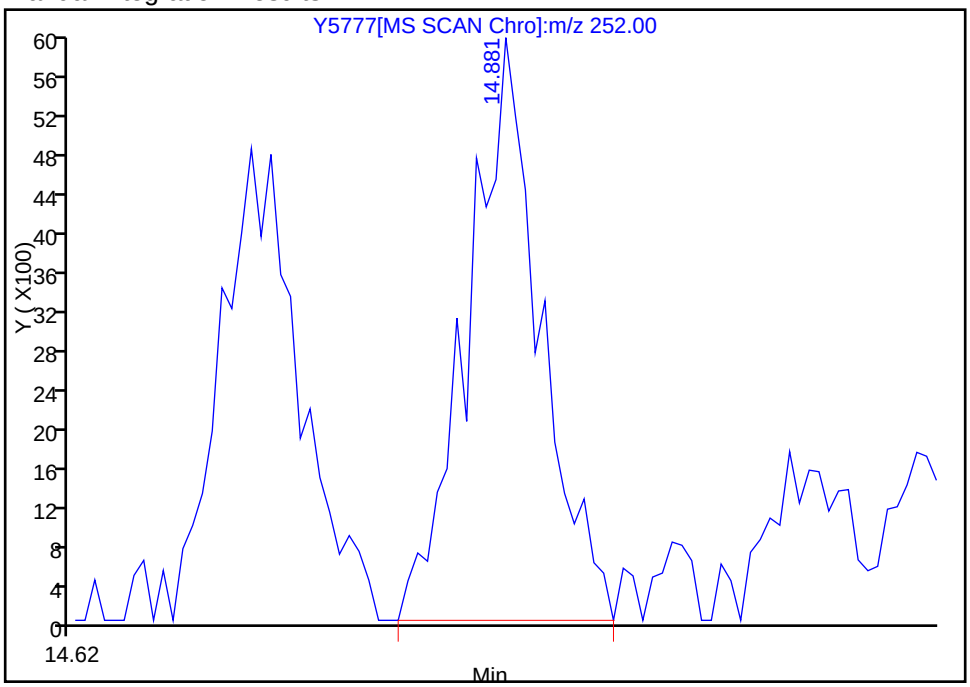
Processing Integration Results

RT: 14.88
Response: 12922
Amount: 0.408427




Manual Integration Results

RT: 14.88
Response: 17998
Amount: 0.568864




Reviewer: hoffmanm, 15-Aug-2013 09:53:35
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1008AA | Lab Sample ID: 280-45026-12

Matrix: Solid | Lab File ID: Y5778.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:15

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 32.6(g) | Date Analyzed: 08/14/2013 21:25

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 12.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 180 | U | 350 | 180 | 53 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 70 | U | 350 | 70 | 51 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 35 | U | 350 | 35 | 29 |
| 95-50-1 | 1,2-Dichlorobenzene | 35 | U | 350 | 35 | 23 |
| 122-66-7 | 1,2-Diphenylhydrazine | 35 | U | 350 | 35 | 23 |
| 541-73-1 | 1,3-Dichlorobenzene | 35 | U | 350 | 35 | 13 |
| 106-46-7 | 1,4-Dichlorobenzene | 35 | U | 350 | 35 | 14 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 35 | U | 350 | 35 | 24 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 180 | U | 1700 | 180 | 140 |
| 95-95-4 | 2,4,5-Trichlorophenol | 140 | U | 350 | 140 | 11 |
| 88-06-2 | 2,4,6-Trichlorophenol | 69 | U | 350 | 69 | 11 |
| 120-83-2 | 2,4-Dichlorophenol | 69 | U | 350 | 69 | 11 |
| 105-67-9 | 2,4-Dimethylphenol | 140 | U | 350 | 140 | 69 |
| 51-28-5 | 2,4-Dinitrophenol | 700 | U | 1700 | 700 | 350 |
| 121-14-2 | 2,4-Dinitrotoluene | 140 | U | 350 | 140 | 69 |
| 87-65-0 | 2,6-Dichlorophenol | 140 | U | 350 | 140 | 72 |
| 606-20-2 | 2,6-Dinitrotoluene | 69 | U | 350 | 69 | 29 |
| 91-58-7 | 2-Chloronaphthalene | 35 | U | 350 | 35 | 11 |
| 95-57-8 | 2-Chlorophenol | 35 | U | 350 | 35 | 22 |
| 91-57-6 | 2-Methylnaphthalene | 35 | U | 350 | 35 | 20 |
| 95-48-7 | 2-Methylphenol | 35 | U | 350 | 35 | 14 |
| 88-74-4 | 2-Nitroaniline | 69 | U | 1700 | 69 | 53 |
| 88-75-5 | 2-Nitrophenol | 69 | U | 350 | 69 | 11 |
| 15831-10-4 | 3 & 4 Methylphenol | 69 | U | 350 | 69 | 35 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U | 1700 | 350 | 95 |
| 99-09-2 | 3-Nitroaniline | 140 | U | 1700 | 140 | 77 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 690 | U | 1700 | 690 | 350 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 35 | U | 350 | 35 | 20 |
| 59-50-7 | 4-Chloro-3-methylphenol | 140 | U | 350 | 140 | 69 |
| 106-47-8 | 4-Chloroaniline | 140 | U | 350 | 140 | 86 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 69 | U | 350 | 69 | 22 |
| 100-01-6 | 4-Nitroaniline | 140 | U | 1700 | 140 | 76 |
| 100-02-7 | 4-Nitrophenol | 350 | U | 1700 | 350 | 100 |
| 83-32-9 | Acenaphthene | 11 | J | 350 | 18 | 11 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1008AA | Lab Sample ID: 280-45026-12

Matrix: Solid | Lab File ID: Y5778.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:15

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 32.6(g) | Date Analyzed: 08/14/2013 21:25

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 12.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 160 | J | 350 | 35 | 18 |
| 98-86-2 | Acetophenone | 35 | U | 350 | 35 | 21 |
| 120-12-7 | Anthracene | 100 | J | 350 | 35 | 18 |
| 1912-24-9 | Atrazine | 140 | U | 350 | 140 | 39 |
| 100-52-7 | Benzaldehyde | 70 | U | 350 | 70 | 41 |
| 92-87-5 | Benzidine | 4200 | U | 4200 | 4200 | 1000 |
| 56-55-3 | Benzo[a]anthracene | 370 | | 350 | 35 | 21 |
| 50-32-8 | Benzo[a]pyrene | 420 | | 350 | 35 | 21 |
| 205-99-2 | Benzo[b]fluoranthene | 600 | M | 350 | 35 | 28 |
| 191-24-2 | Benzo[g,h,i]perylene | 330 | J | 350 | 35 | 17 |
| 207-08-9 | Benzo[k]fluoranthene | 220 | J M | 350 | 69 | 42 |
| 65-85-0 | Benzoic acid | 690 | U | 1700 | 690 | 350 |
| 100-51-6 | Benzyl alcohol | 35 | U | 350 | 35 | 11 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 69 | U | 350 | 69 | 24 |
| 111-44-4 | Bis(2-chloroethyl)ether | 35 | U | 350 | 35 | 17 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 52 | J | 350 | 69 | 48 |
| 85-68-7 | Butyl benzyl phthalate | 69 | U | 350 | 69 | 45 |
| 105-60-2 | Caprolactam | 350 | U | 1700 | 350 | 110 |
| 86-74-8 | Carbazole | 70 | U | 350 | 70 | 38 |
| 218-01-9 | Chrysene | 540 | | 350 | 35 | 28 |
| 53-70-3 | Dibenz(a,h)anthracene | 58 | J M | 350 | 35 | 20 |
| 132-64-9 | Dibenzofuran | 35 | U | 350 | 35 | 21 |
| 84-66-2 | Diethyl phthalate | 35 | U | 690 | 35 | 27 |
| 131-11-3 | Dimethyl phthalate | 390 | | 350 | 35 | 24 |
| 84-74-2 | Di-n-butyl phthalate | 35 | U | 350 | 35 | 30 |
| 117-84-0 | Di-n-octyl phthalate | 69 | U | 350 | 69 | 15 |
| 206-44-0 | Fluoranthene | 690 | | 350 | 69 | 38 |
| 86-73-7 | Fluorene | 30 | J | 350 | 35 | 19 |
| 118-74-1 | Hexachlorobenzene | 69 | U | 350 | 69 | 30 |
| 87-68-3 | Hexachlorobutadiene | 69 | U | 350 | 69 | 11 |
| 77-47-4 | Hexachlorocyclopentadiene | 69 | U | 1800 | 69 | 53 |
| 67-72-1 | Hexachloroethane | 35 | U | 350 | 35 | 22 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 330 | J | 350 | 35 | 23 |
| 78-59-1 | Isophorone | 35 | U | 350 | 35 | 18 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1008AA | Lab Sample ID: 280-45026-12

Matrix: Solid | Lab File ID: Y5778.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:15

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 32.6(g) | Date Analyzed: 08/14/2013 21:25

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 12.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 69 | U | 350 | 69 | 33 |
| 98-95-3 | Nitrobenzene | 35 | U | 350 | 35 | 23 |
| 62-75-9 | N-Nitrosodimethylamine | 69 | U | 550 | 69 | 39 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 69 | U | 350 | 69 | 33 |
| 86-30-6 | N-Nitrosodiphenylamine | 35 | U | 350 | 35 | 22 |
| 930-55-2 | N-Nitrosopyrrolidine | 140 | U | 350 | 140 | 67 |
| 87-86-5 | Pentachlorophenol | 700 | U | 1700 | 700 | 350 |
| 85-01-8 | Phenanthrene | 330 | J | 350 | 35 | 18 |
| 108-95-2 | Phenol | 35 | U | 350 | 35 | 19 |
| 129-00-0 | Pyrene | 900 | | 420 | 35 | 13 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 92 | | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 86 | | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 81 | | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 79 | | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 86 | | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 96 | | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D
Lims ID: 280-45026-A-12-A
Client ID: B255SCS1008AA
Inject. Date: 14-Aug-2013 21:25:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-45026-a-12-a
Misc. Info.: 186667 =186667
Operator: hoffmanm
Instrument ID: SMS_Y
Injection Vol: 0.5 ul
ALS Bottle#: 26
Lims Batch ID: 187134
Lims Sample ID: 28
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41
Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE
ID Type: Deconvolution ID
Column Type: VF-5ms
Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm
Date: 15-Aug-2013 09:55:28

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.152 | 4.149 | 0.003 | 95 | 318453 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.192 | 5.189 | 0.003 | 99 | 1217025 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.661 | 6.658 | 0.003 | 90 | 725864 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.912 | 7.909 | 0.003 | 97 | 1233274 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.290 | 11.288 | 0.002 | 84 | 1271787 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.063 | 15.060 | 0.003 | 98 | 1222131 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.124 | 3.127 | 0.001 | 90 | 935660 | 80.7 | |
| $ 8 Phenol-d5 | 99 | 3.840 | 3.839 | 0.006 | 90 | 1221254 | 85.6 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.604 | 4.609 | 0.0 | 87 | 956768 | 79.4 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.073 | 6.072 | 0.001 | 99 | 2014976 | 86.2 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.325 | 7.324 | 0.001 | 91 | 462622 | 91.7 | |
| $ 13 Terphenyl-d14 | 244 | 9.463 | 9.457 | 0.006 | 98 | 2463782 | 96.0 | |
| 28 N-Nitrosodimethylamine | 74 | | 2.106 | | | | | |
| 39 Benzaldehyde | 106 | | 3.811 | | | | | 9 |
| 40 Phenol | 94 | | 3.846 | | | | | 9 |
| 45 Bis(2-chloroethyl)ether | 93 | | 3.922 | | | | | |
| 48 2-Chlorophenol | 128 | | 3.987 | | | | | |
| 49 1,3-Dichlorobenzene | 146 | | 4.104 | | | | | |
| 50 1,4-Dichlorobenzene | 146 | | 4.163 | | | | | |
| 51 Benzyl alcohol | 108 | | 4.251 | | | | | 9 |
| 52 1,2-Dichlorobenzene | 146 | | 4.292 | | | | | |
| 54 2-Methylphenol | 108 | | 4.327 | | | | | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | | 4.339 | | | | | |
| 60 3 & 4 Methylphenol | 108 | | 4.451 | | | | | |
| 61 N-Nitrosodi-n-propylamine | 70 | | 4.451 | | | | | |
| 62 N-Nitrosopyrrolidine | 100 | | 4.460 | | | | | |
| 63 Acetophenone | 105 | | 4.468 | | | | | |
| 66 Hexachloroethane | 117 | | 4.562 | | | | | |
| 67 Nitrobenzene | 77 | | 4.615 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 Isophorone | 82 | | 4.797 | | | | | |
| 73 2,4-Dimethylphenol | 107 | | 4.880 | | | | | |
| 74 2-Nitrophenol | 139 | | 4.874 | | | | | |
| 77 Benzoic acid | 105 | | 4.974 | | | | | |
| 78 Bis(2-chloroethoxy)methane | 93 | | 4.956 | | | | | |
| 82 2,4-Dichlorophenol | 162 | | 5.068 | | | | | |
| 84 1,2,4-Trichlorobenzene | 180 | | 5.138 | | | | | |
| 87 Naphthalene | 128 | | 5.209 | | | | | |
| 88 4-Chloroaniline | 127 | | 5.250 | | | | | 9 |
| 89 2,6-Dichlorophenol | 162 | | 5.254 | | | | | |
| 91 Hexachlorobutadiene | 225 | | 5.285 | | | | | |
| 94 Caprolactam | 55 | | 5.538 | | | | | |
| 97 4-Chloro-3-methylphenol | 107 | | 5.632 | | | | | |
| 101 2-Methylnaphthalene | 142 | | 5.773 | | | | | |
| 105 Hexachlorocyclopentadiene | 237 | | 5.896 | | | | | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | | 5.914 | | | | | |
| 108 2,4,6-Trichlorophenol | 196 | | 6.008 | | | | | |
| 110 2,4,5-Trichlorophenol | 196 | | 6.043 | | | | | |
| 112 1,1'-Biphenyl | 154 | | 6.161 | | | | | |
| 114 2-Chloronaphthalene | 162 | | 6.190 | | | | | 9 |
| 116 2-Nitroaniline | 65 | | 6.278 | | | | | |
| 119 Dimethyl phthalate | 163 | 6.396 | 6.396 | 0.0 | 98 | 248380 | 11.3 | |
| 121 2,6-Dinitrotoluene | 165 | | 6.466 | | | | | |
| 122 Acenaphthylene | 152 | 6.543 | 6.542 | 0.001 | 96 | 142564 | 4.57 | |
| 123 3-Nitroaniline | 138 | | 6.625 | | | | | |
| 124 Acenaphthene | 153 | 6.684 | 6.683 | 0.001 | 69 | 5977 | 0.3109 | |
| 126 2,4-Dinitrophenol | 184 | | 6.707 | | | | | |
| 127 4-Nitrophenol | 109 | | 6.760 | | | | | |
| 130 2,4-Dinitrotoluene | 165 | | 6.807 | | | | | |
| 132 Dibenzofuran | 168 | | 6.824 | | | | | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | | 6.924 | | | | | |
| 139 Diethyl phthalate | 149 | | 6.977 | | | | | 9 |
| 142 4-Chlorophenyl phenyl ether | 204 | | 7.095 | | | | | |
| 143 Fluorene | 166 | 7.119 | 7.112 | 0.007 | 84 | 19352 | 0.8594 | |
| 146 4-Nitroaniline | 138 | | 7.148 | | | | | |
| 147 4,6-Dinitro-2-methylphenol | 198 | | 7.153 | | | | | |
| 150 N-Nitrosodiphenylamine | 169 | | 7.200 | | | | | |
| 151 1,2-Diphenylhydrazine | 77 | | 7.230 | | | | | |
| 164 4-Bromophenyl phenyl ether | 248 | | 7.506 | | | | | |
| 165 Hexachlorobenzene | 284 | | 7.577 | | | | | |
| 167 Atrazine | 200 | | 7.624 | | | | | |
| 171 Pentachlorophenol | 266 | | 7.747 | | | | | |
| 176 Phenanthrene | 178 | 7.936 | 7.936 | 0.007 | 97 | 298816 | 9.35 | |
| 177 Anthracene | 178 | 7.977 | 7.982 | 0.001 | 96 | 92938 | 2.84 | |
| 178 Carbazole | 167 | 8.112 | 8.124 | 0.001 | 82 | 26003 | 0.8340 | |
| 181 Di-n-butyl phthalate | 149 | | 8.329 | | | | | |
| 188 Fluoranthene | 202 | 9.034 | 9.040 | 0.0 | 98 | 688428 | 19.6 | |
| 189 Benzidine | 184 | | 9.175 | | | | | |
| 191 Pyrene | 202 | 9.316 | 9.316 | 0.006 | 98 | 848107 | 25.7 | |
| 198 Butyl benzyl phthalate | 149 | | 10.150 | | | | | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.214 | 11.213 | 0.001 | 75 | 27396 | 1.48 | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.225 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 206 Benzo[a]anthracene | 228 | 11.267 | 11.260 | 0.007 | 98 | 331727 | 10.6 | |
| 207 Chrysene | 228 | 11.343 | 11.343 | 0.0 | 96 | 458982 | 15.4 | |
| 209 Di-n-octyl phthalate | 149 | | 12.853 | | | | | |
| 211 Benzo[b]fluoranthene | 252 | 13.946 | 13.946 | 0.012 | 96 | 529264 | 17.3 | M |
| 212 Benzo[k]fluoranthene | 252 | 13.999 | 13.999 | -0.011 | 99 | 214760 | 6.32 | M |
| 215 Benzo[a]pyrene | 252 | 14.886 | 14.881 | 0.006 | 76 | 378613 | 12.0 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.435 | 18.435 | 0.001 | 81 | 46681 | 1.64 | M |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.347 | 18.354 | 0.001 | 99 | 257309 | 9.52 | |
| 223 Benzo[g,h,i]perylene | 276 | 19.134 | 19.141 | 0.0 | 97 | 289937 | 9.34 | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

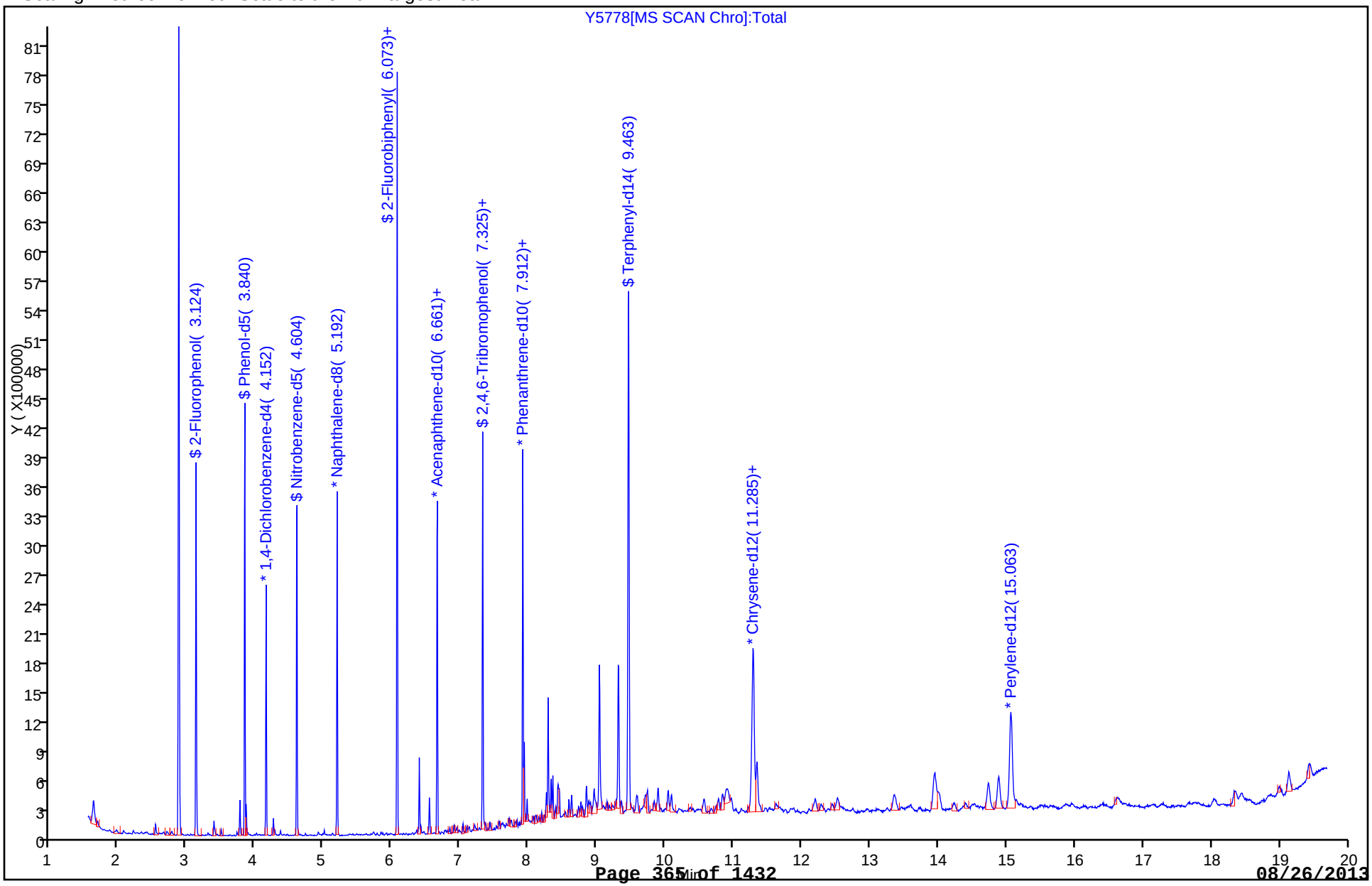
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



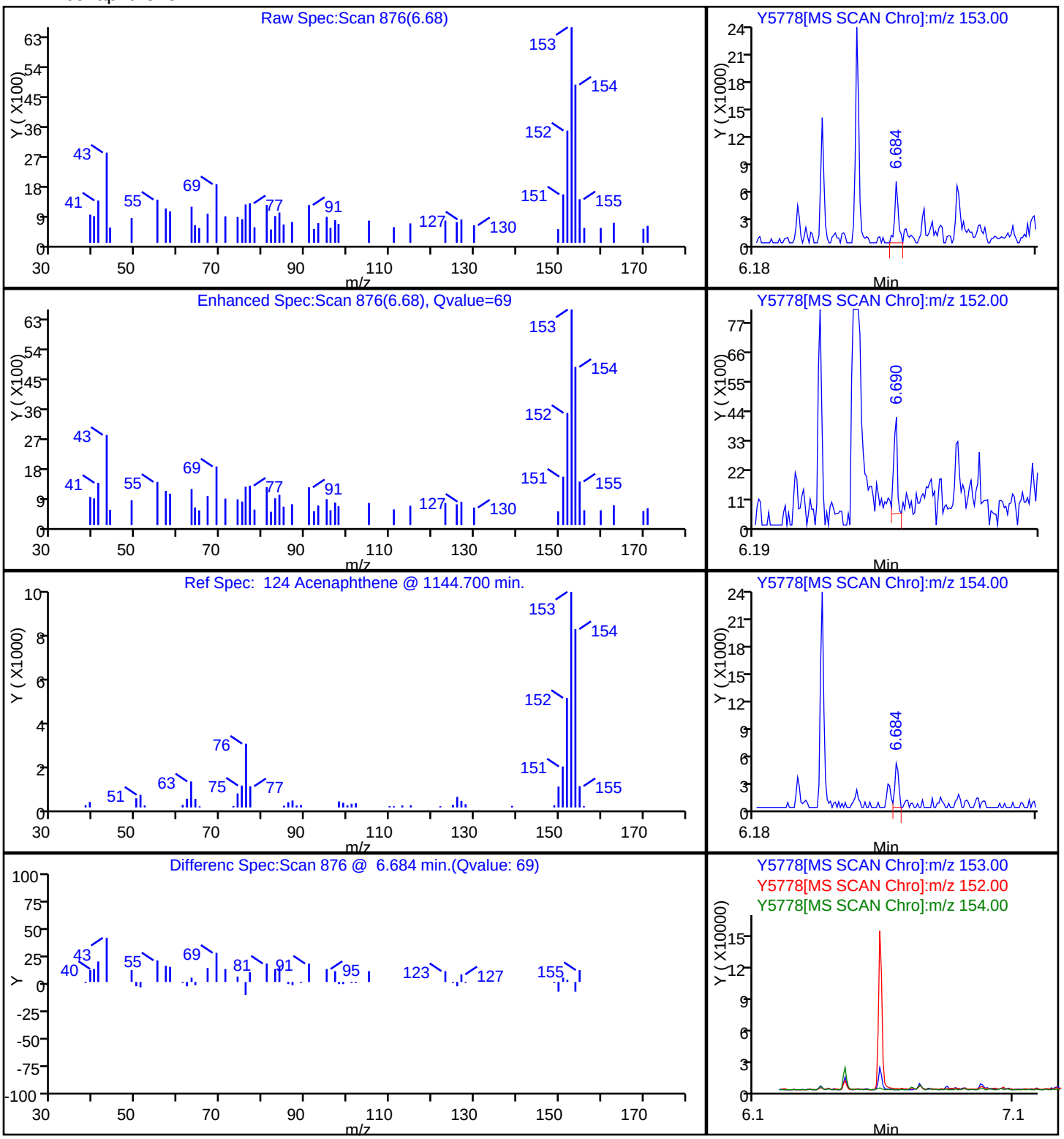
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

124 Acenaphthene



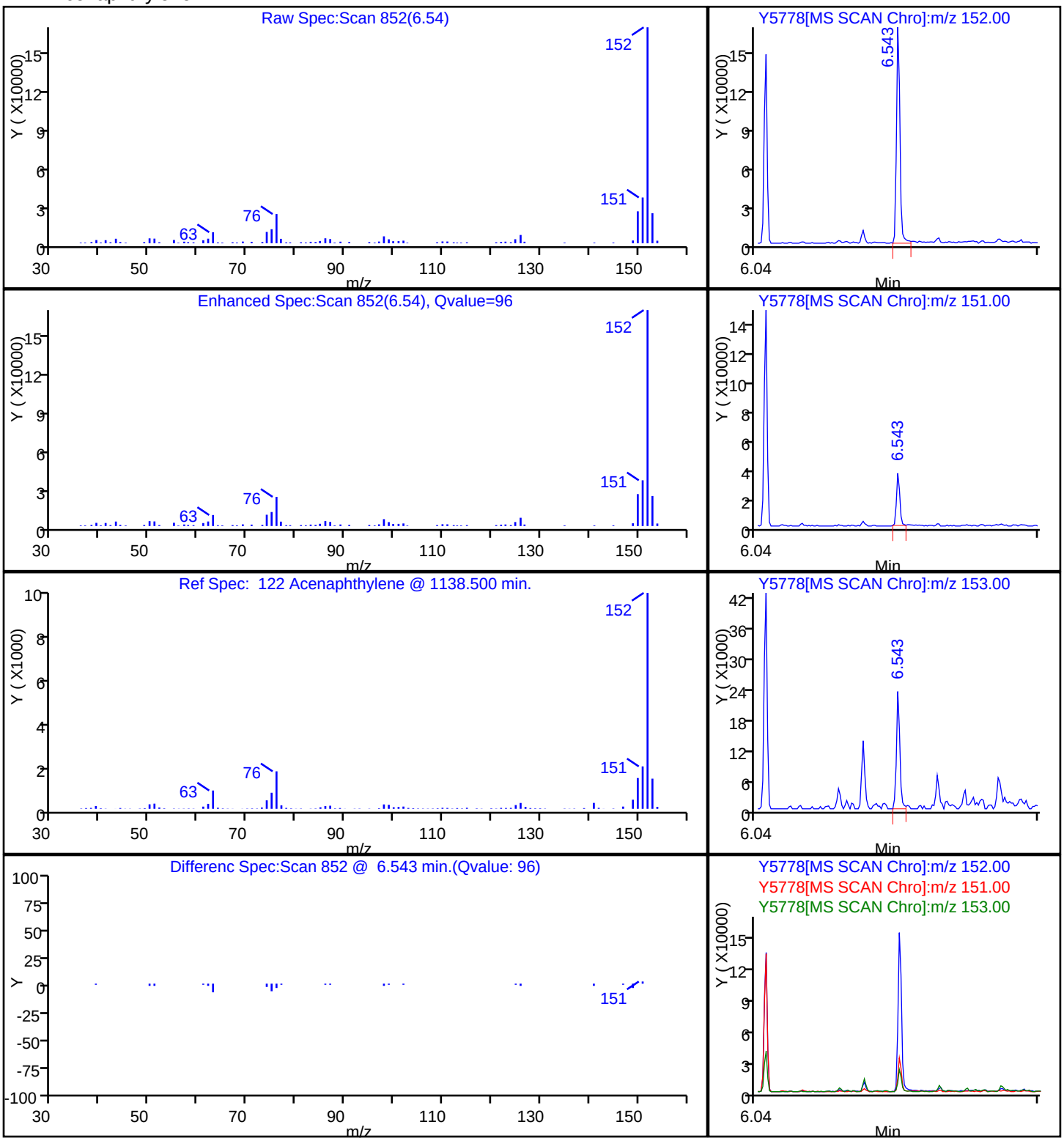
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

122 Acenaphthylene



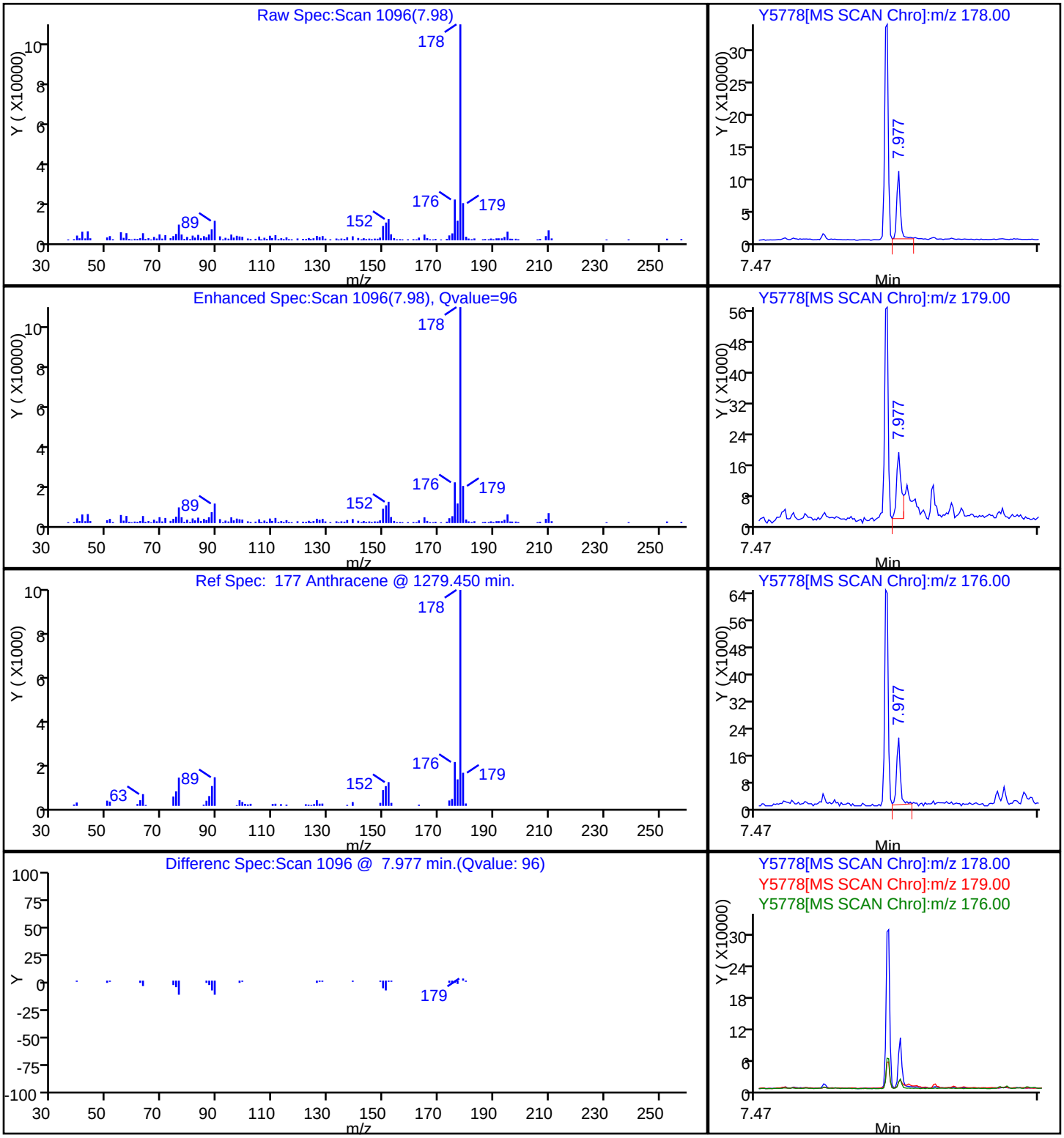
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

177 Anthracene



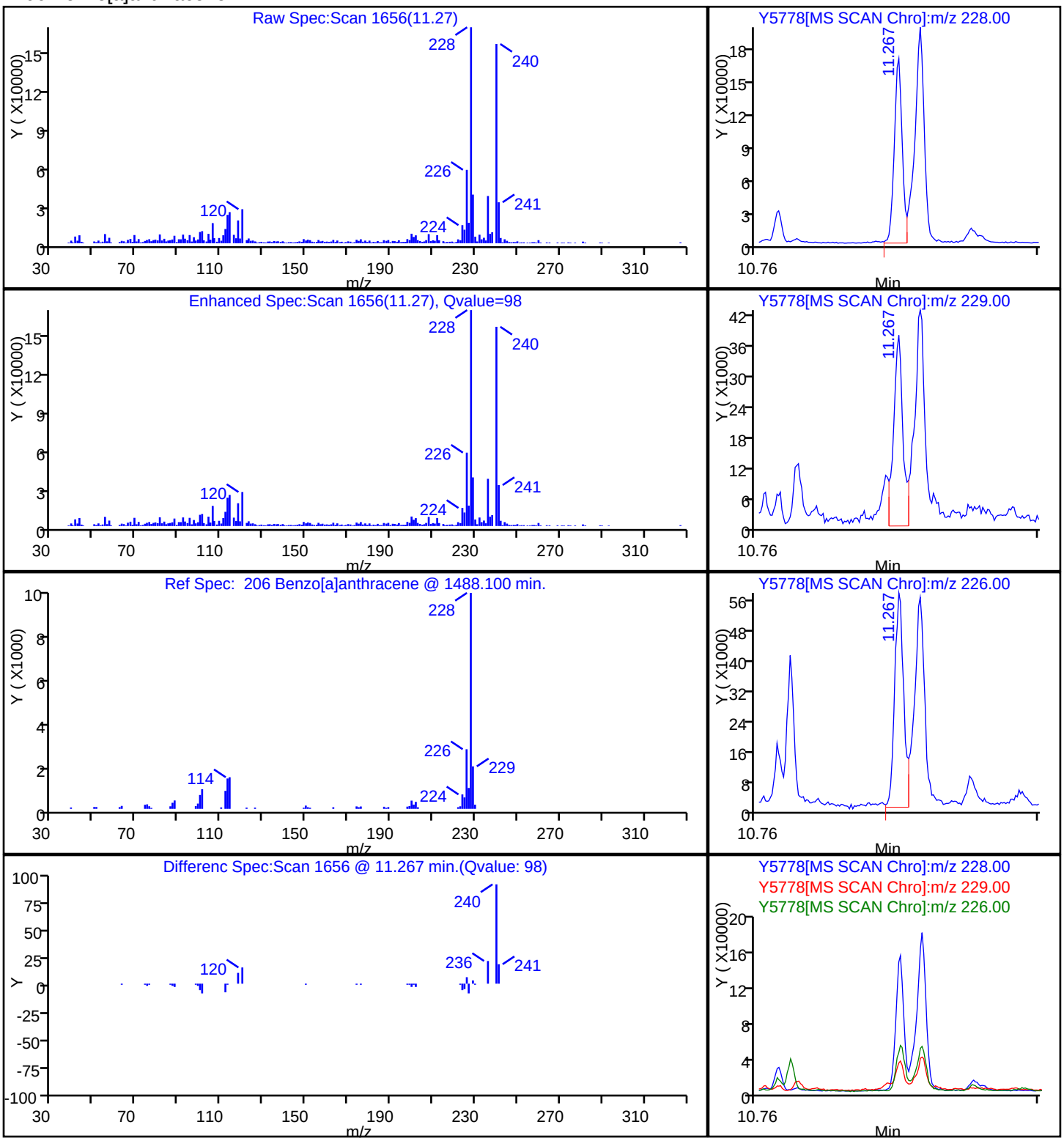
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

206 Benzo[a]anthracene



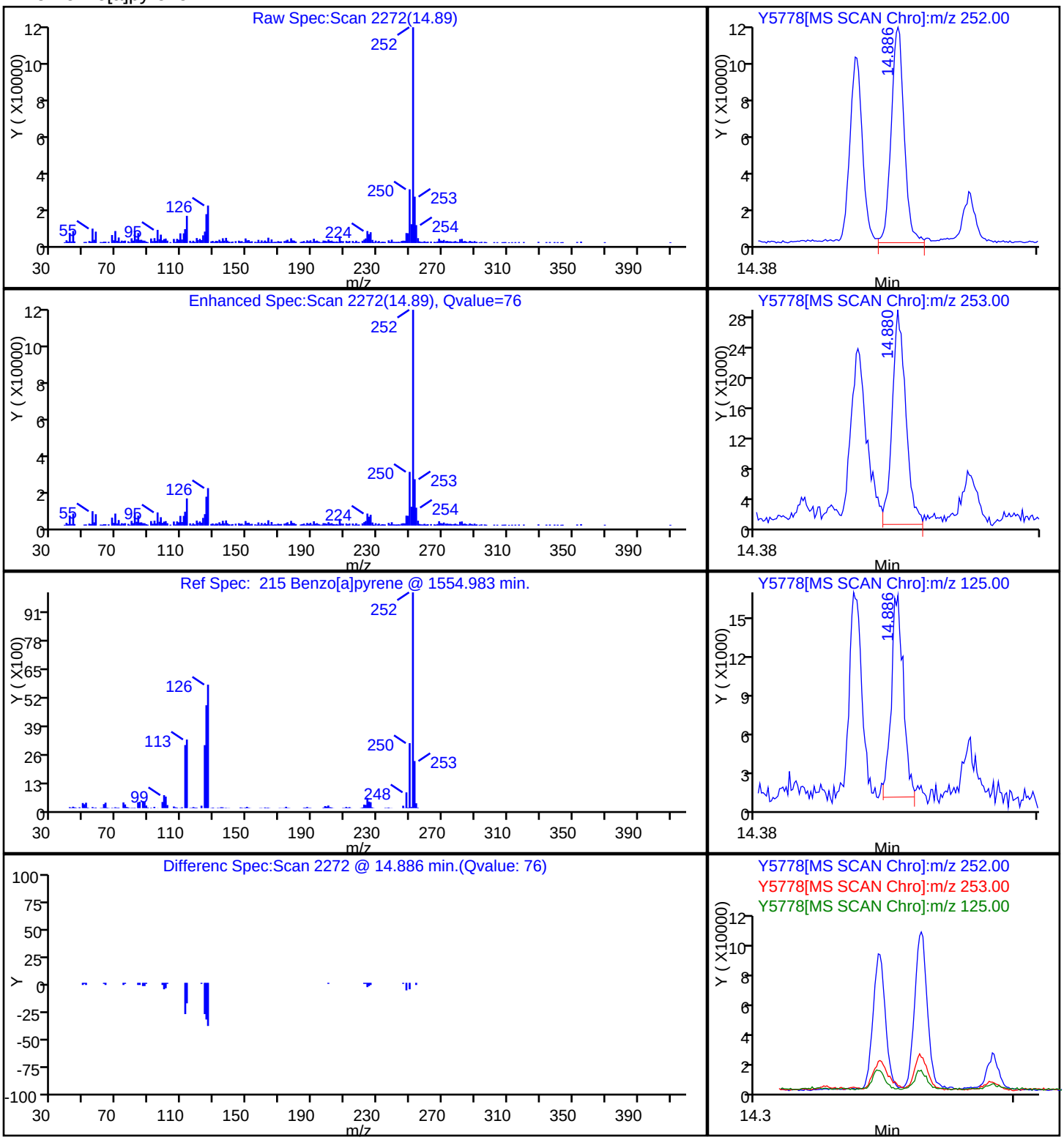
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

215 Benzo[a]pyrene

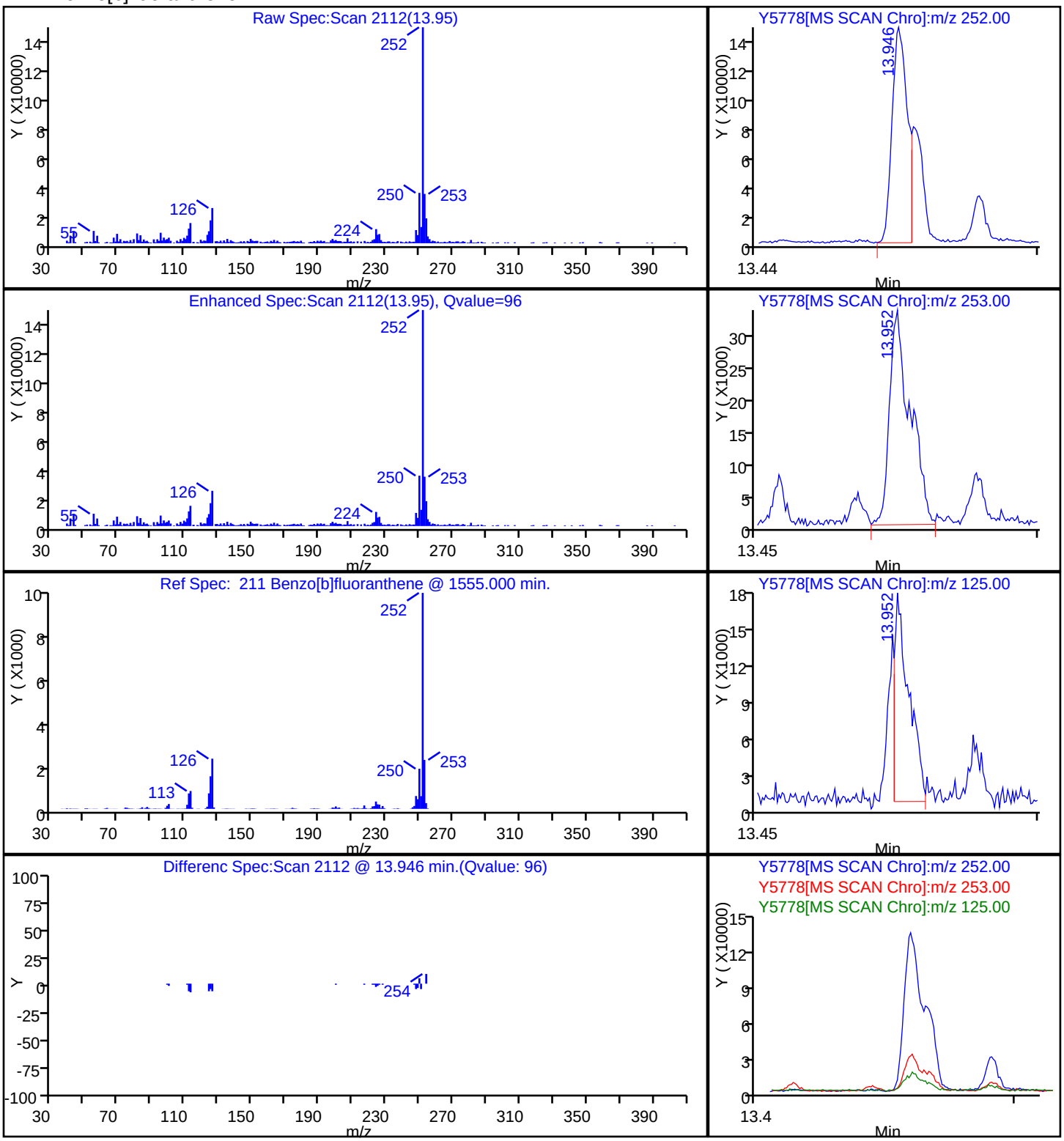


TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

211 Benzo[b]fluoranthene



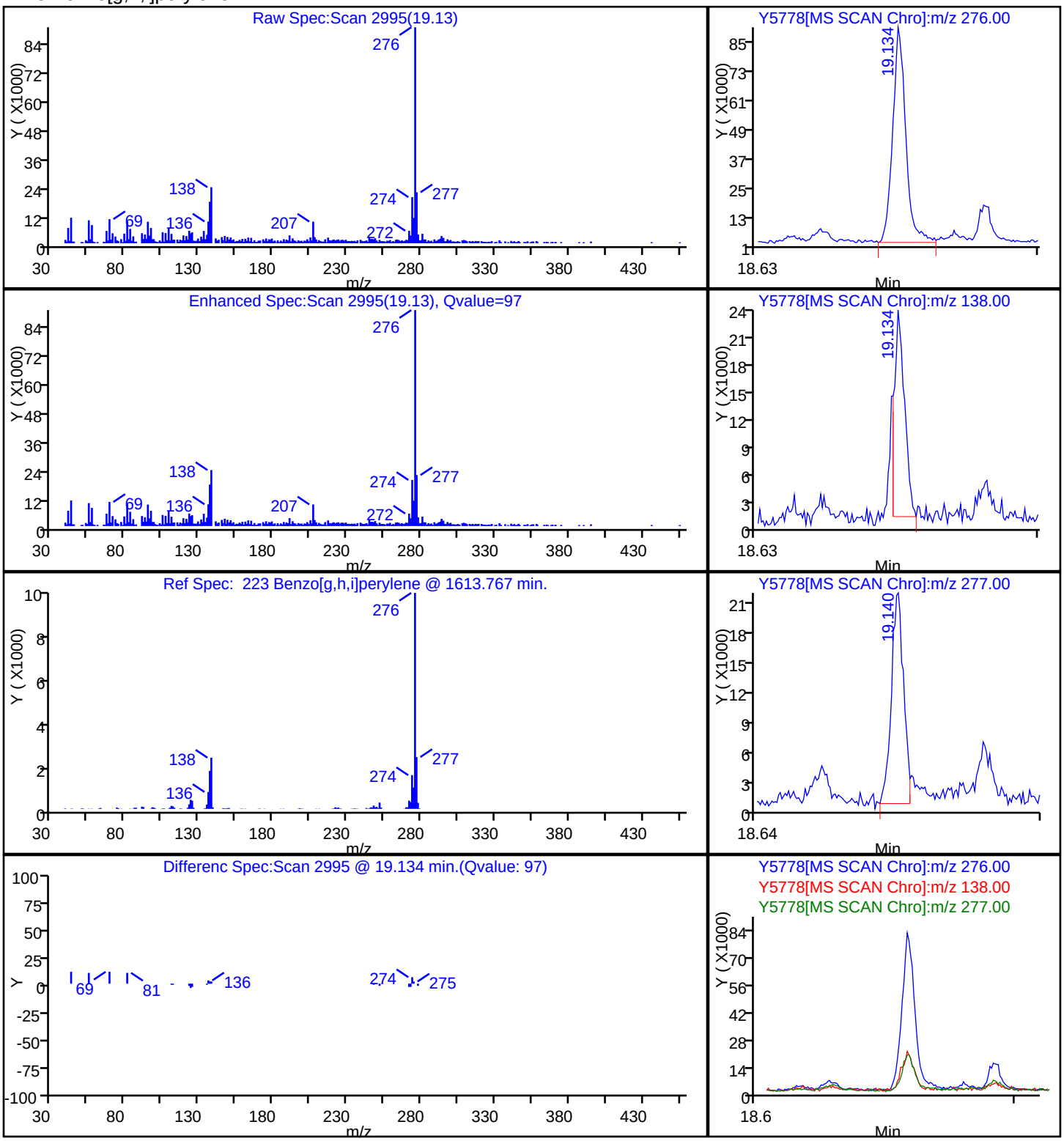
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

223 Benzo[g,h,i]perylene



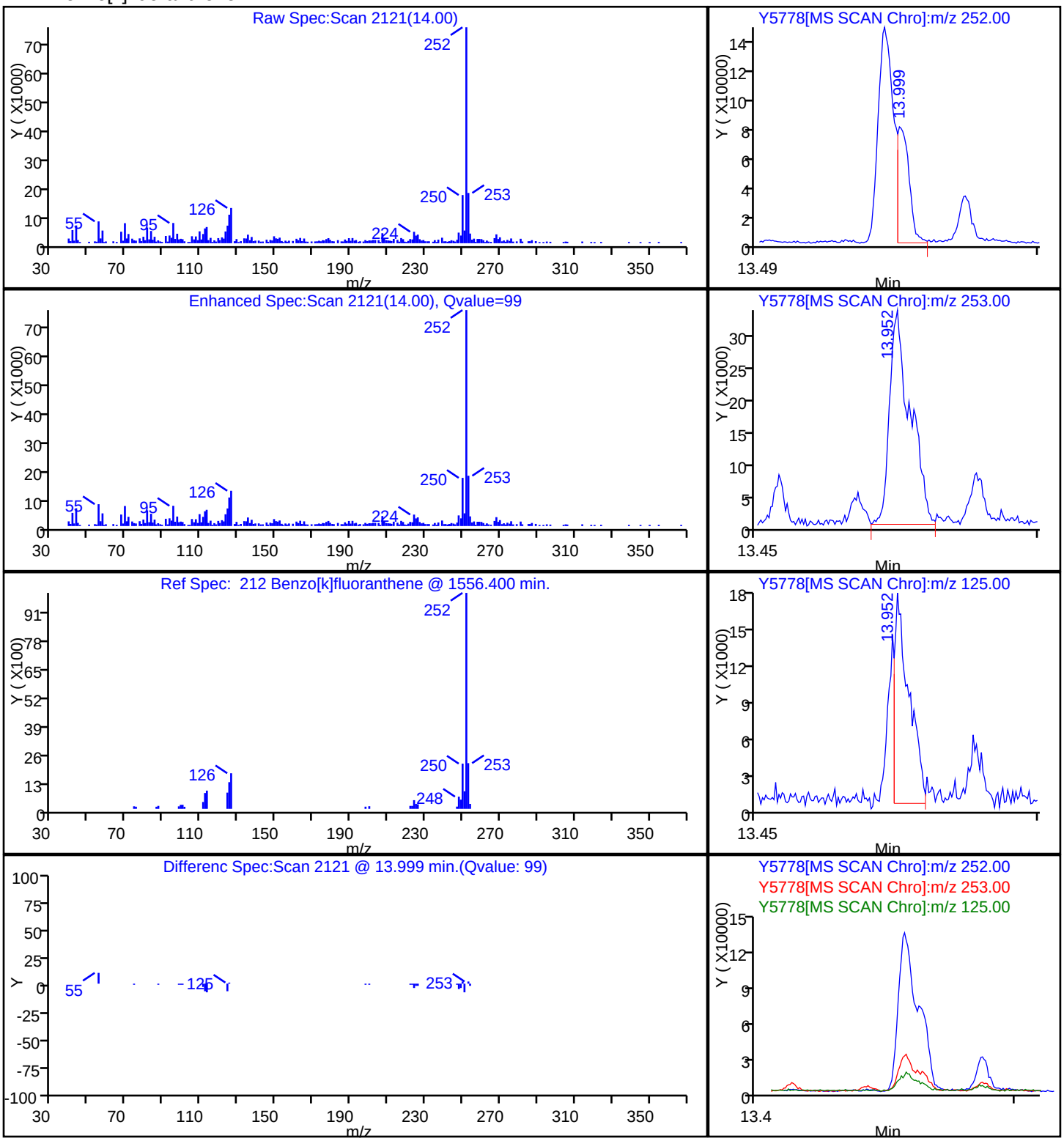
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

212 Benzo[k]fluoranthene



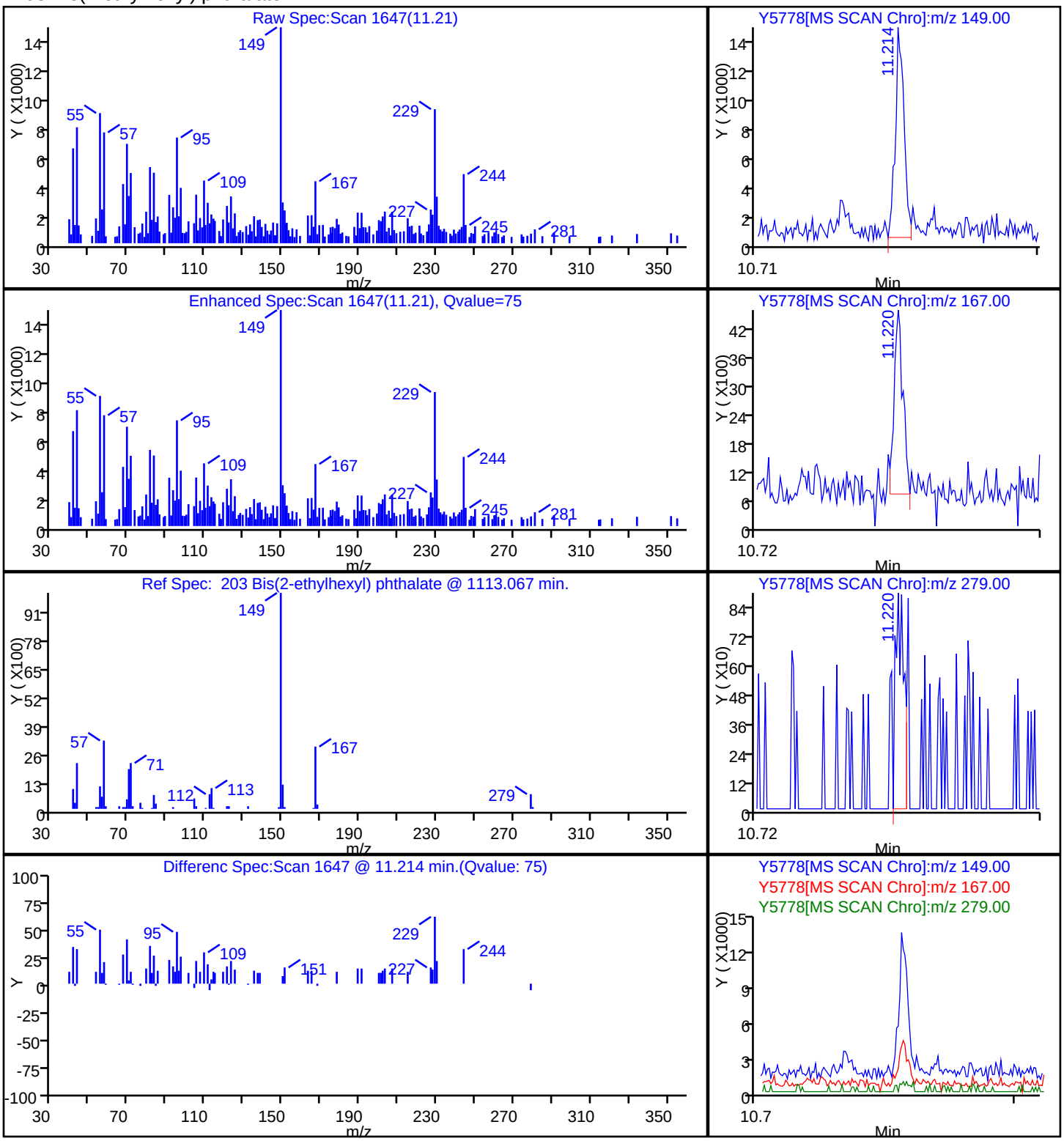
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

203 Bis(2-ethylhexyl) phthalate



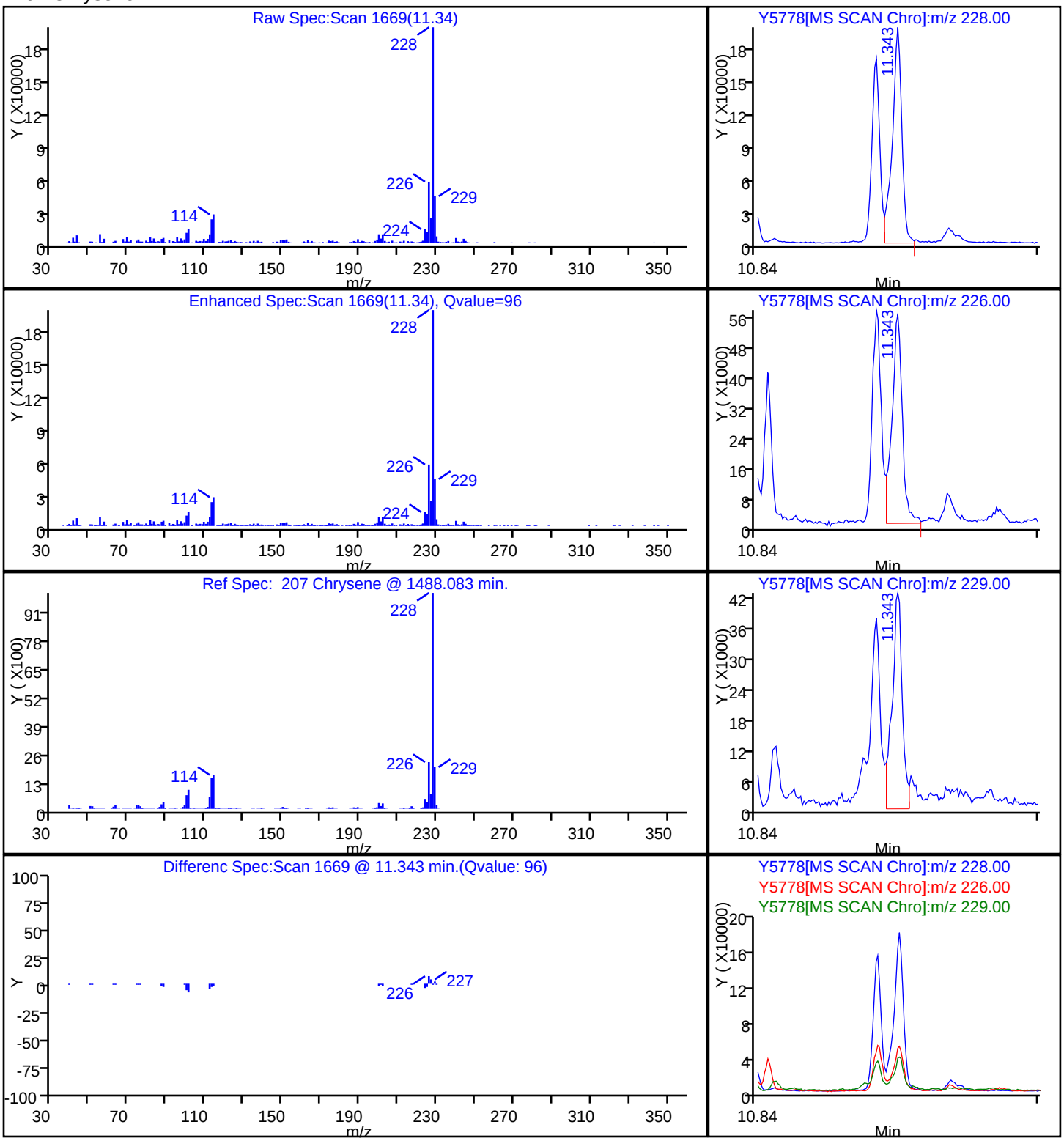
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

207 Chrysene



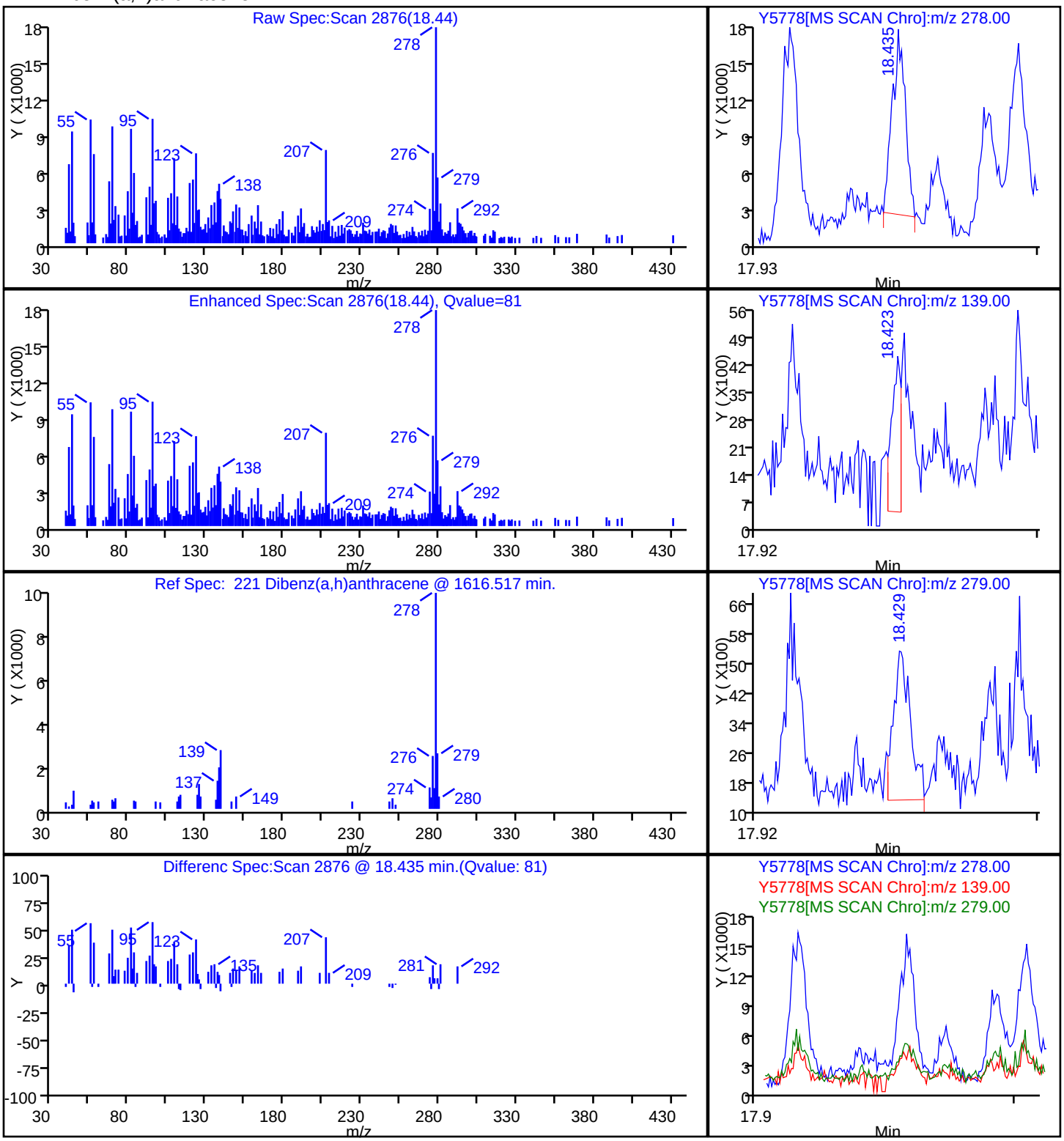
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

221 Dibenz(a,h)anthracene



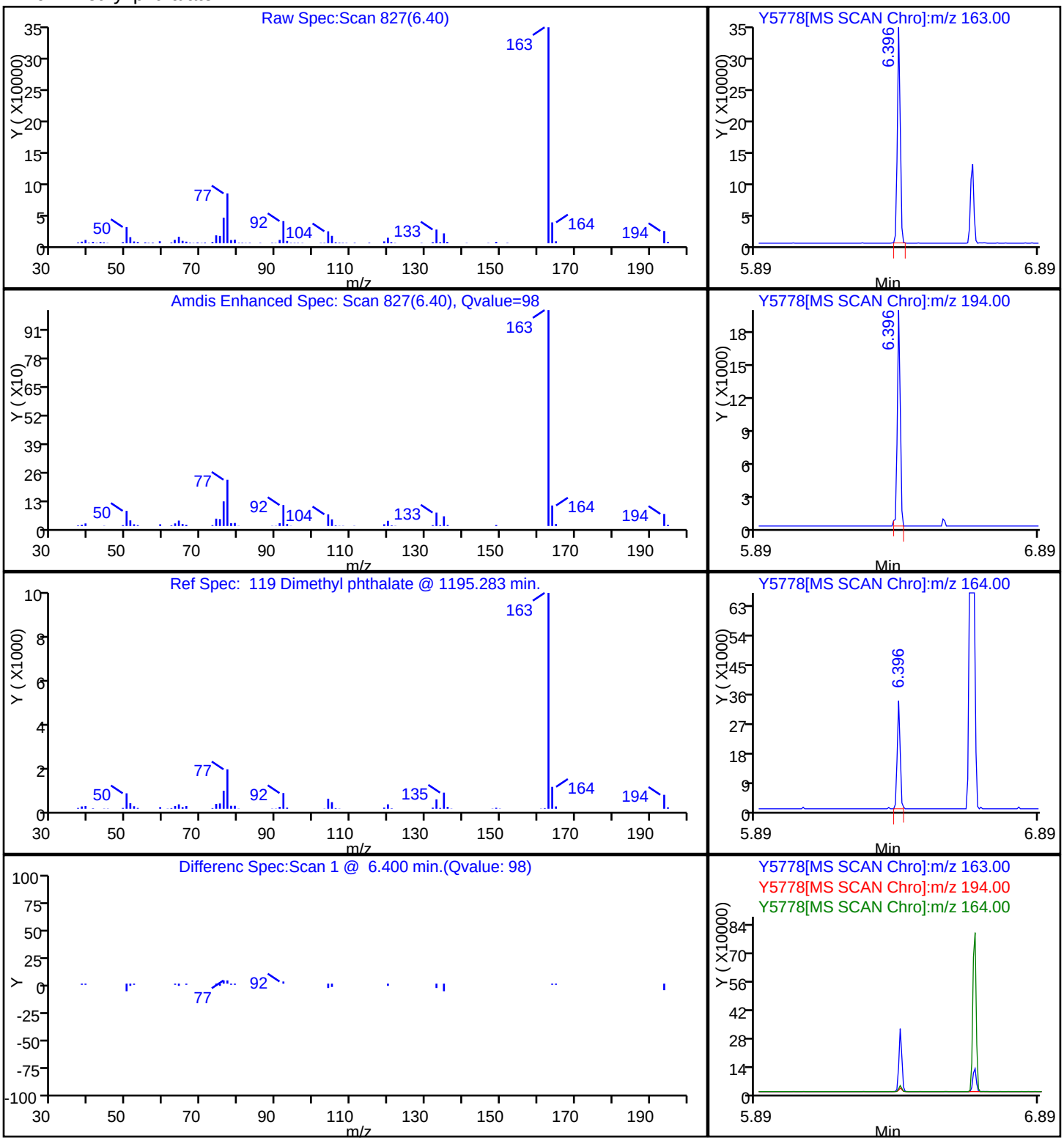
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

119 Dimethyl phthalate



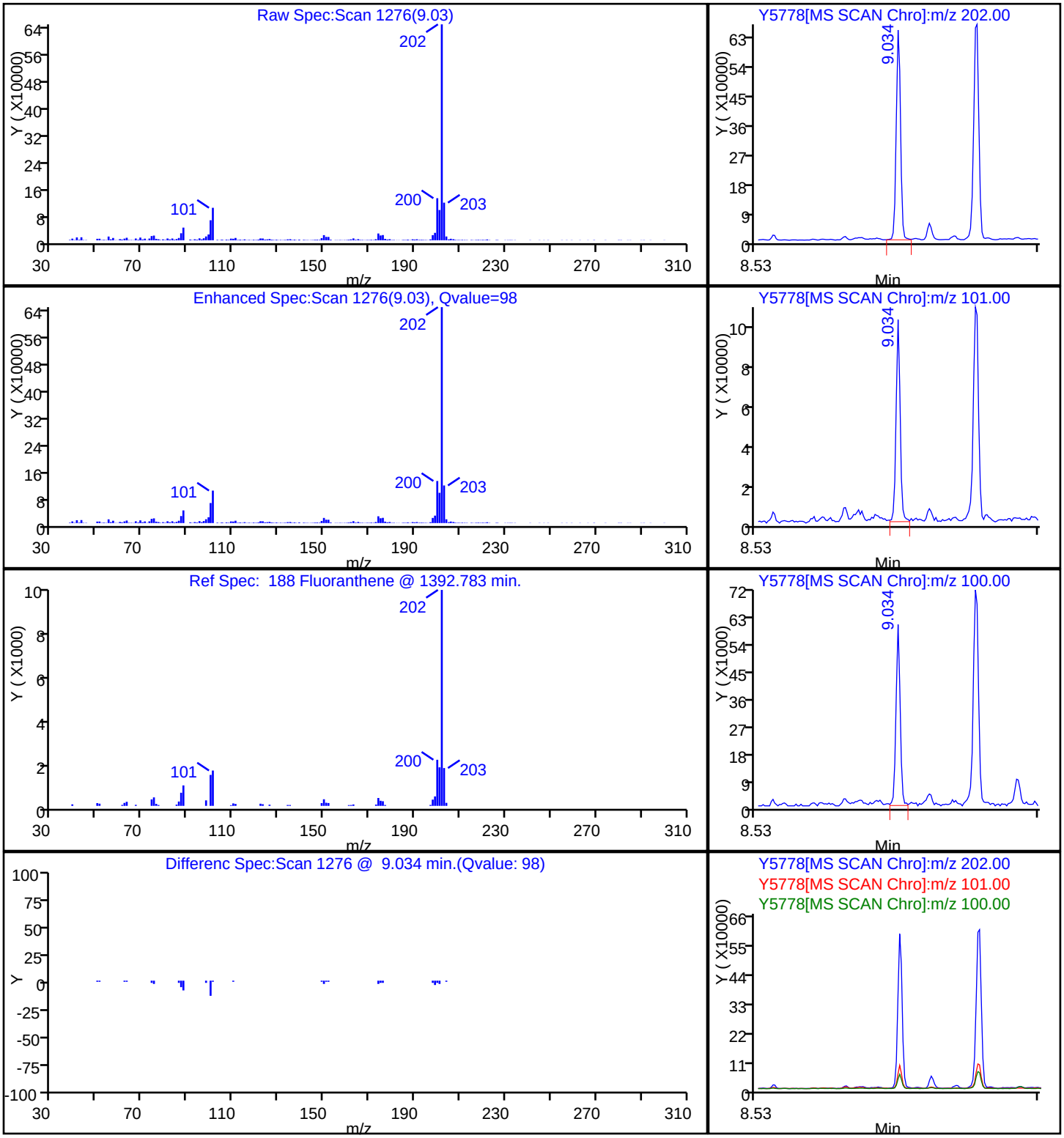
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

188 Fluoranthene



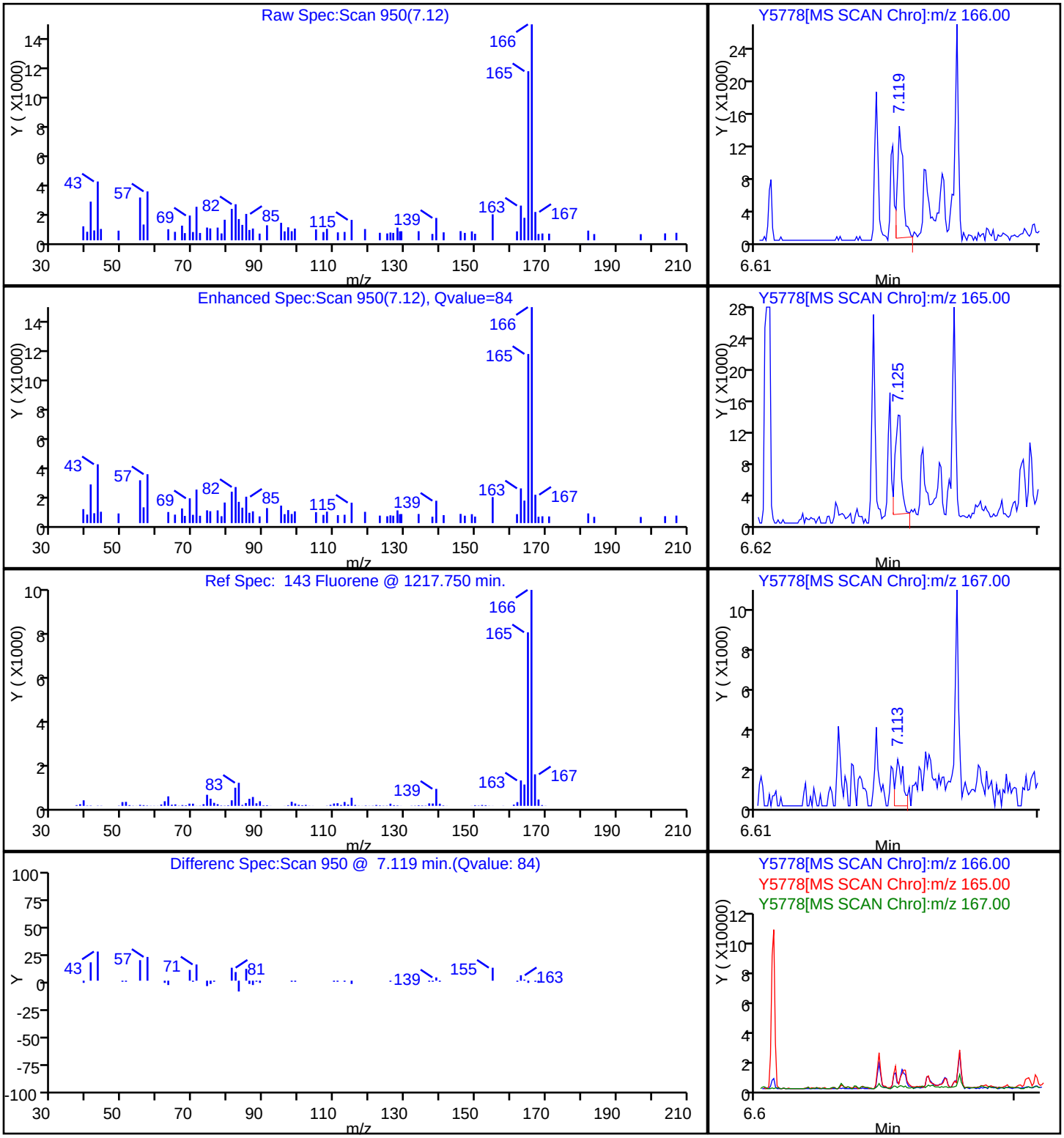
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

143 Fluorene



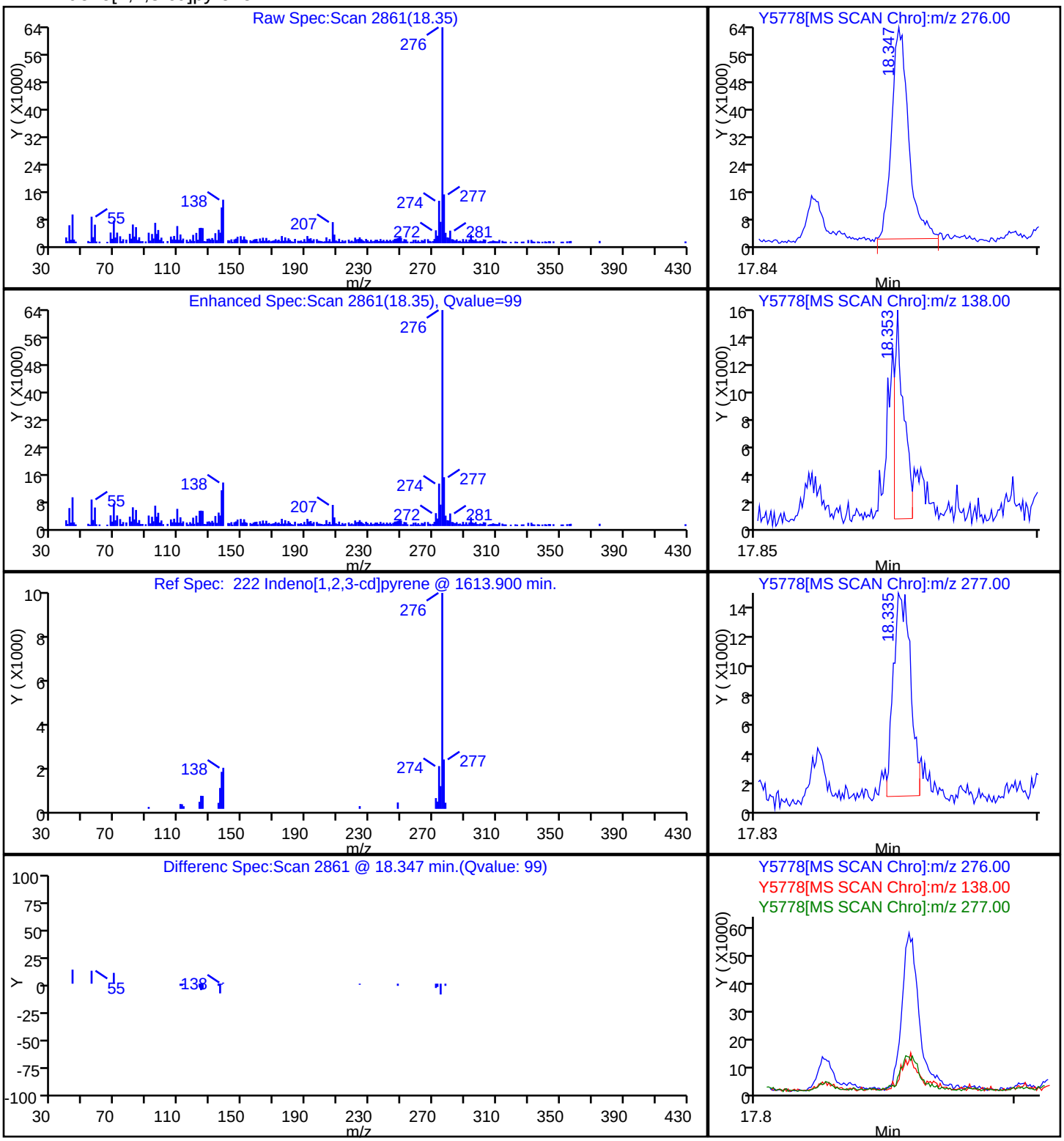
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene



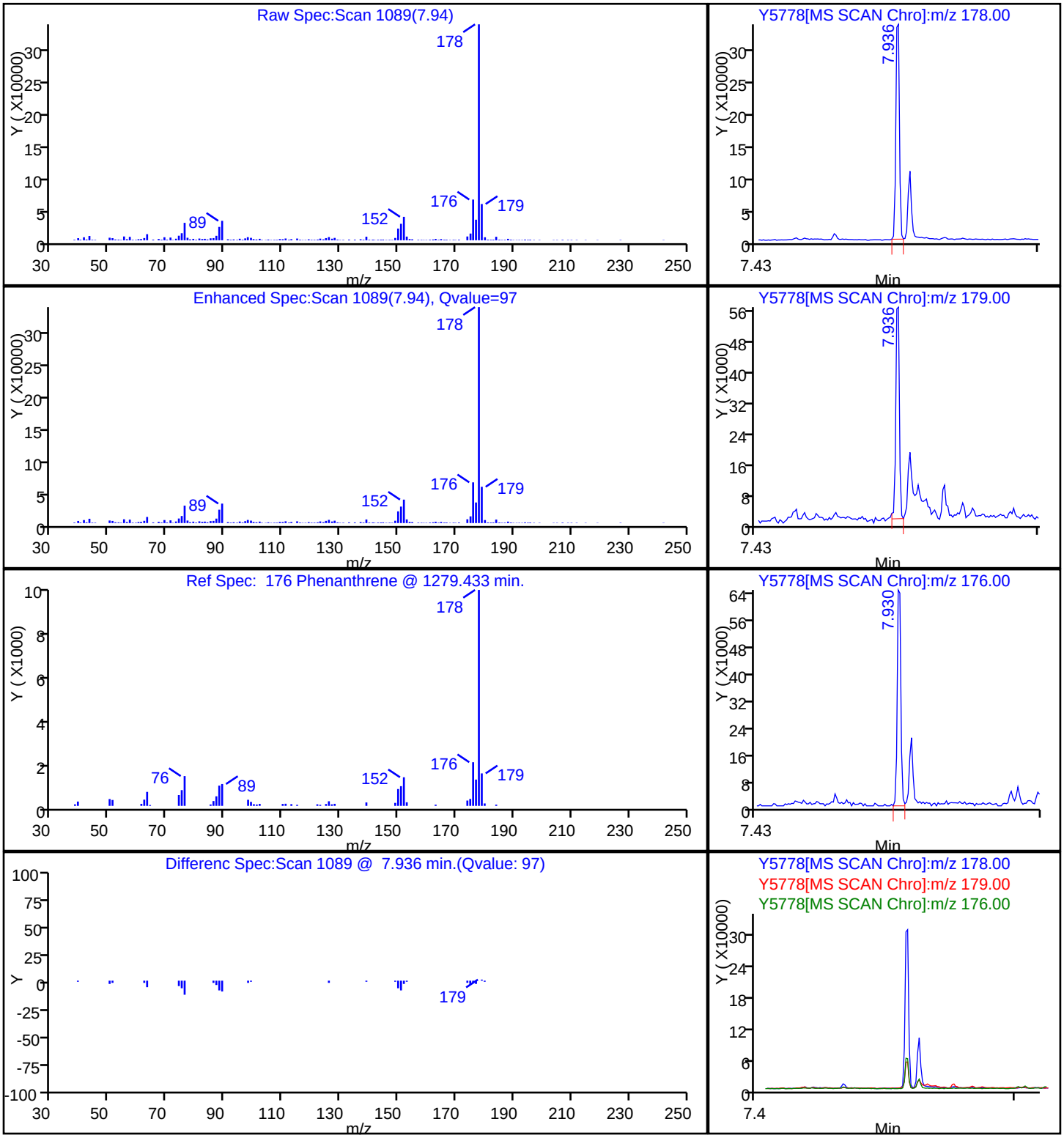
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

176 Phenanthrene



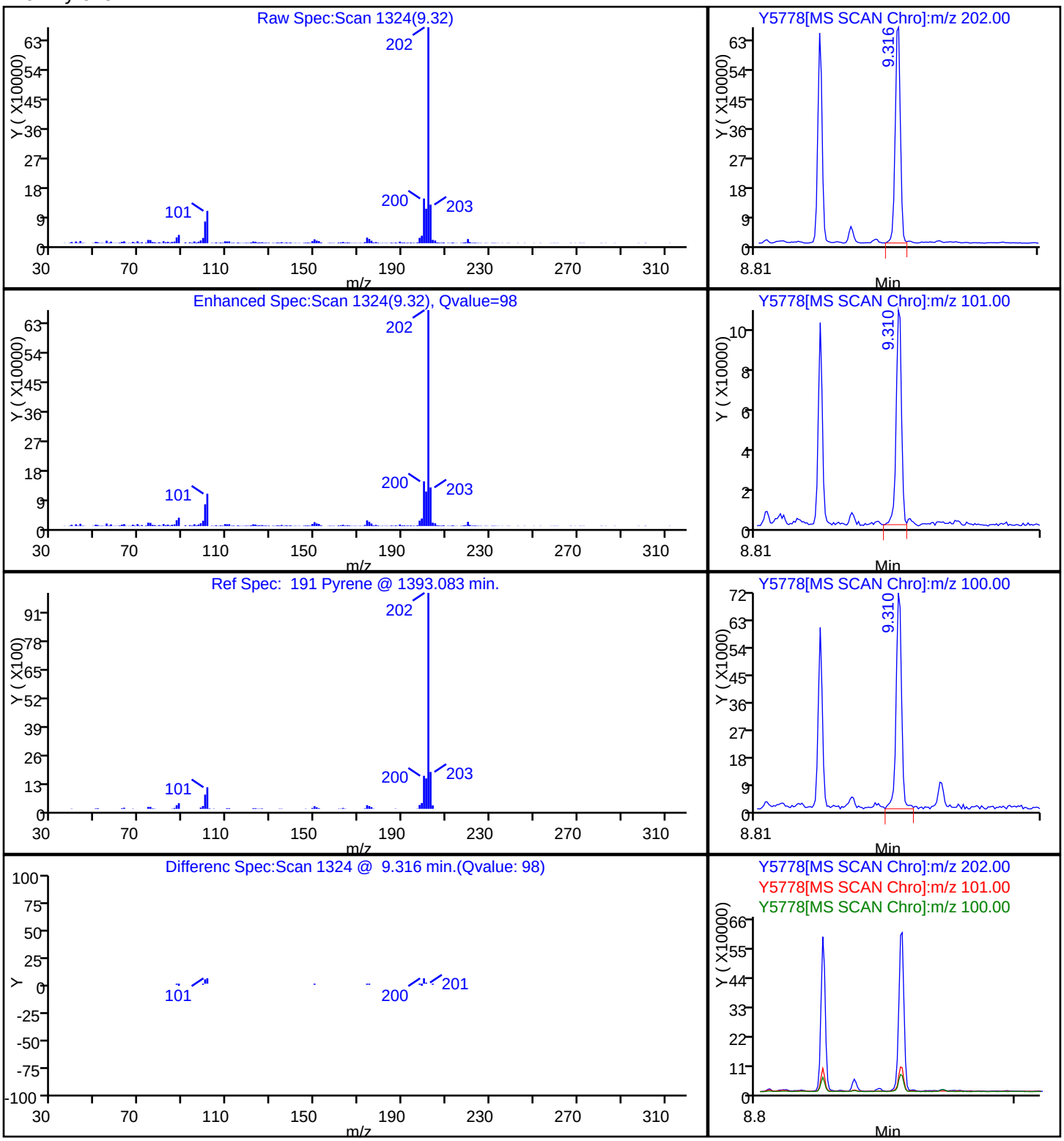
Report Date: 15-Aug-2013 10:01:56 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

191 Pyrene



Manual Integration/User Assign Peak Report

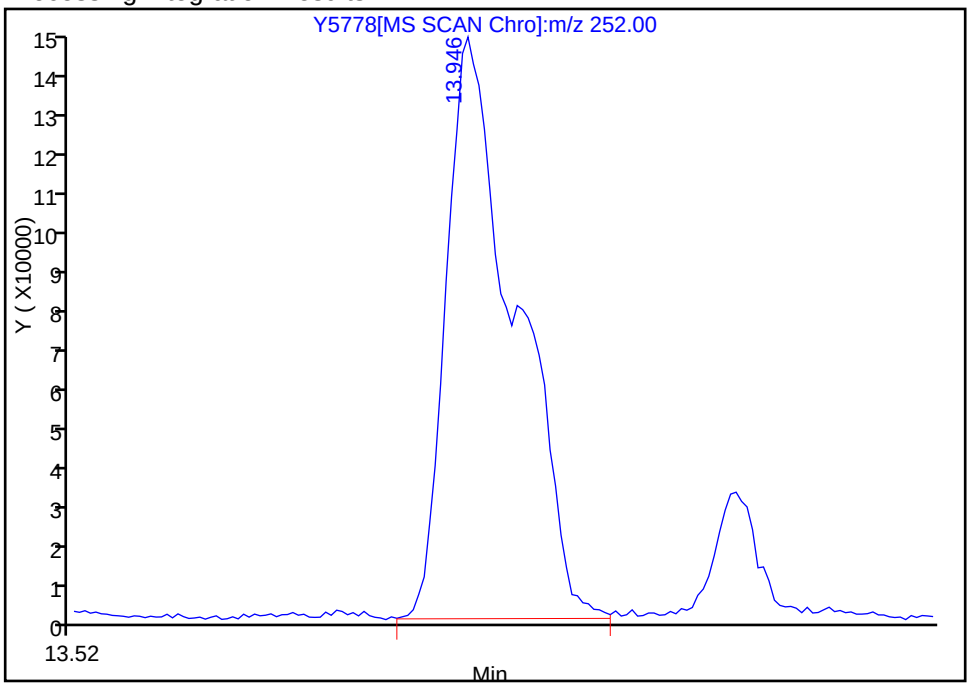
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D | | |
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

211 Benzo[b]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 13.93

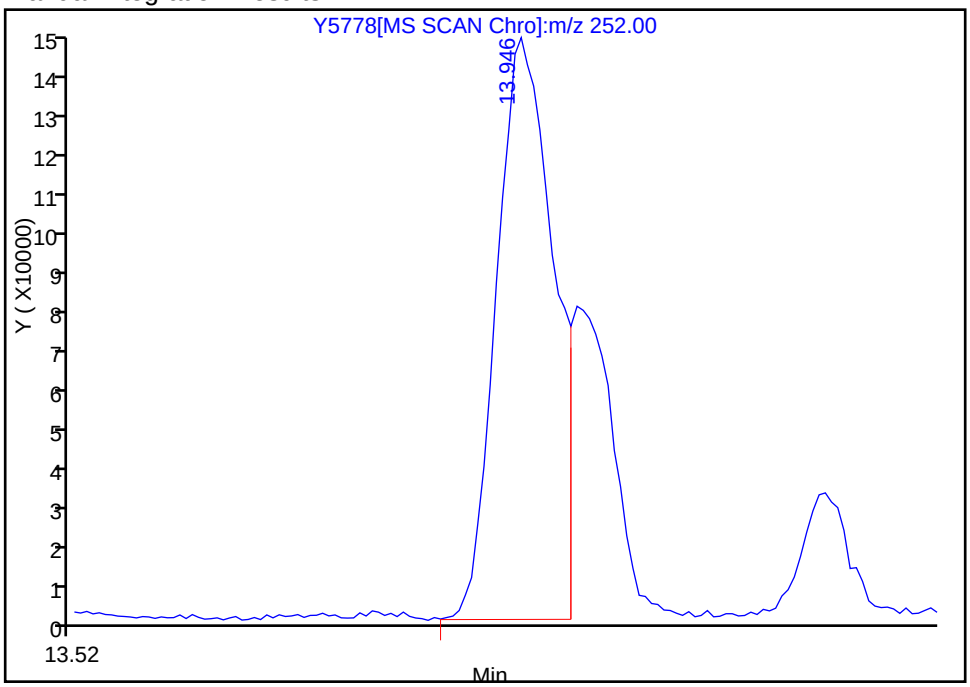
Processing Integration Results

RT: 13.95
Response: 719047
Amount: 23.444048




Manual Integration Results

RT: 13.95
Response: 529264
Amount: 17.256300




Reviewer: hoffmanm, 15-Aug-2013 09:55:28
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

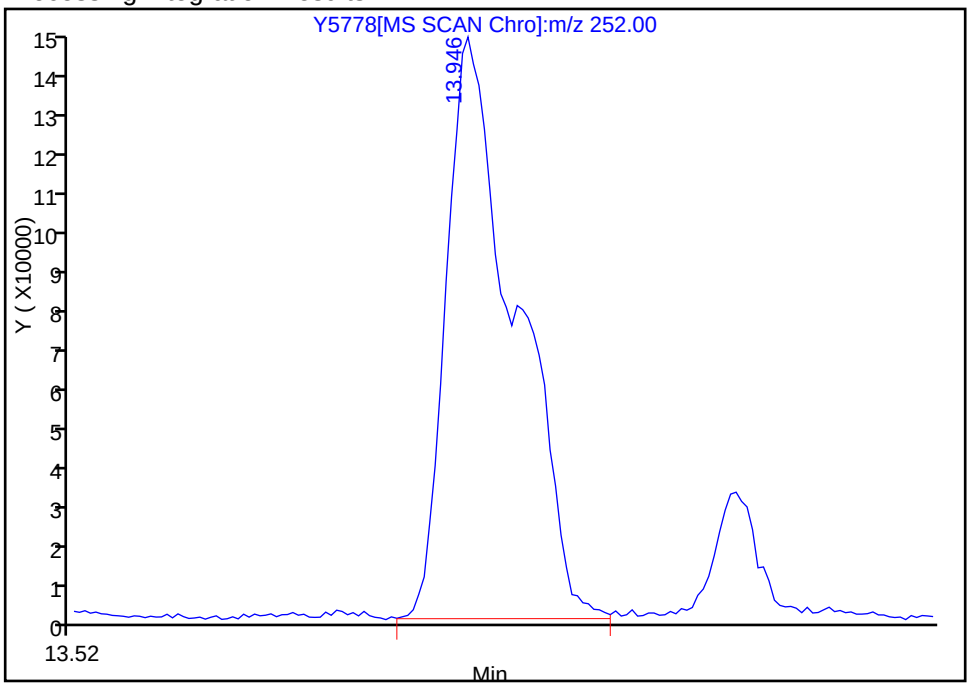
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D | | |
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

212 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 14.01

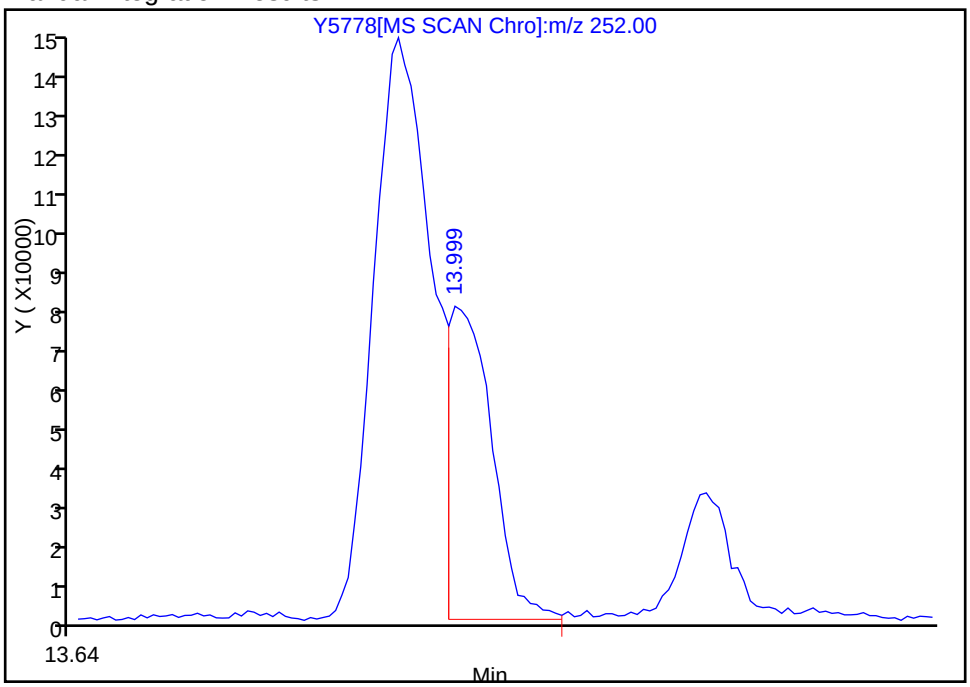
Processing Integration Results

RT: 13.95
Response: 719139
Amount: 21.164717




Manual Integration Results

RT: 14.00
Response: 214760
Amount: 6.320523




Reviewer: hoffmanm, 15-Aug-2013 09:55:28
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

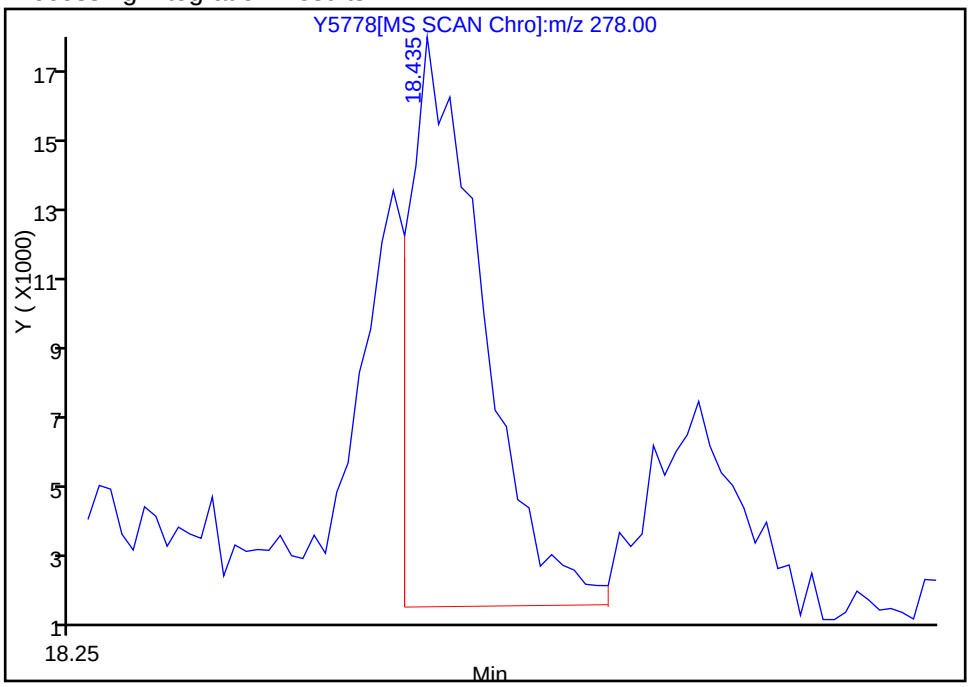
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5778.D | | |
| Injection Date: | 14-Aug-2013 21:25:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1008AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 28 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

221 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 18.43

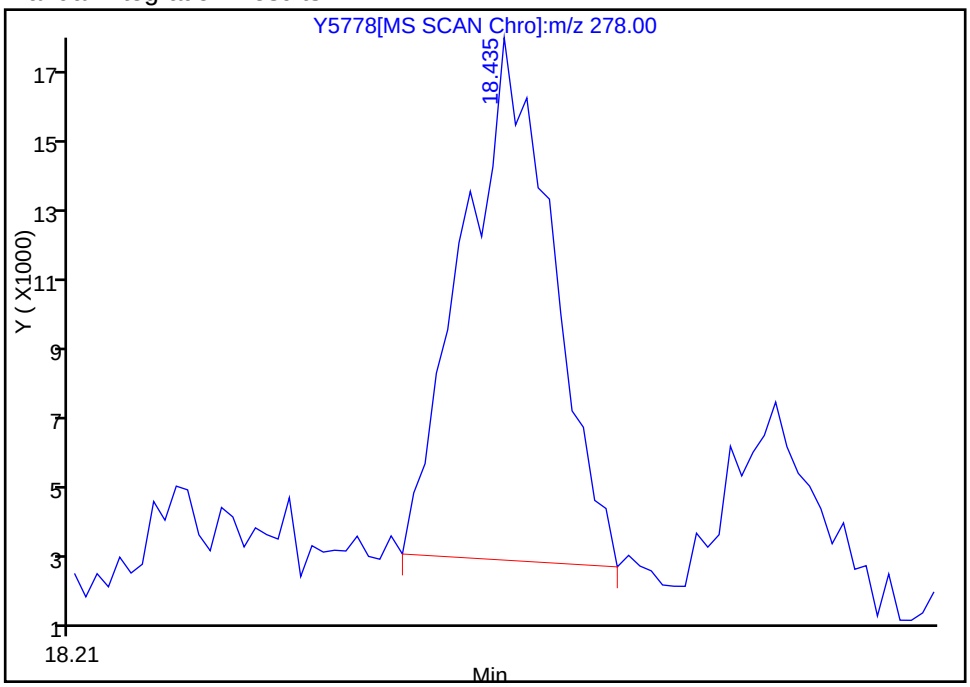
Processing Integration Results

RT: 18.44
Response: 41945
Amount: 1.476976




Manual Integration Results

RT: 18.44
Response: 46681
Amount: 1.643741




Reviewer: hoffmanm, 15-Aug-2013 09:55:28
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1012AA | Lab Sample ID: 280-45026-13

Matrix: Solid | Lab File ID: Y5779.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:20

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.3(g) | Date Analyzed: 08/14/2013 21:52

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 180 | U | 370 | 180 | 55 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 74 | U | 370 | 74 | 54 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 37 | U | 370 | 37 | 31 |
| 95-50-1 | 1,2-Dichlorobenzene | 37 | U | 370 | 37 | 24 |
| 122-66-7 | 1,2-Diphenylhydrazine | 37 | U | 370 | 37 | 24 |
| 541-73-1 | 1,3-Dichlorobenzene | 37 | U | 370 | 37 | 13 |
| 106-46-7 | 1,4-Dichlorobenzene | 37 | U | 370 | 37 | 15 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 37 | U | 370 | 37 | 25 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 180 | U | 1800 | 180 | 150 |
| 95-95-4 | 2,4,5-Trichlorophenol | 140 | U | 370 | 140 | 11 |
| 88-06-2 | 2,4,6-Trichlorophenol | 73 | U | 370 | 73 | 11 |
| 120-83-2 | 2,4-Dichlorophenol | 73 | U | 370 | 73 | 11 |
| 105-67-9 | 2,4-Dimethylphenol | 140 | U | 370 | 140 | 73 |
| 51-28-5 | 2,4-Dinitrophenol | 740 | U | 1800 | 740 | 370 |
| 121-14-2 | 2,4-Dinitrotoluene | 140 | U | 370 | 140 | 73 |
| 87-65-0 | 2,6-Dichlorophenol | 140 | U | 370 | 140 | 76 |
| 606-20-2 | 2,6-Dinitrotoluene | 73 | U | 370 | 73 | 31 |
| 91-58-7 | 2-Chloronaphthalene | 37 | U | 370 | 37 | 11 |
| 95-57-8 | 2-Chlorophenol | 37 | U | 370 | 37 | 23 |
| 91-57-6 | 2-Methylnaphthalene | 37 | U | 370 | 37 | 21 |
| 95-48-7 | 2-Methylphenol | 37 | U | 370 | 37 | 14 |
| 88-74-4 | 2-Nitroaniline | 73 | U | 1800 | 73 | 55 |
| 88-75-5 | 2-Nitrophenol | 73 | U | 370 | 73 | 11 |
| 15831-10-4 | 3 & 4 Methylphenol | 73 | U | 370 | 73 | 37 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 370 | U | 1800 | 370 | 100 |
| 99-09-2 | 3-Nitroaniline | 150 | U | 1800 | 150 | 81 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 730 | U | 1800 | 730 | 370 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 37 | U | 370 | 37 | 21 |
| 59-50-7 | 4-Chloro-3-methylphenol | 140 | U | 370 | 140 | 73 |
| 106-47-8 | 4-Chloroaniline | 140 | U | 370 | 140 | 91 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 73 | U | 370 | 73 | 23 |
| 100-01-6 | 4-Nitroaniline | 140 | U | 1800 | 140 | 80 |
| 100-02-7 | 4-Nitrophenol | 370 | U | 1800 | 370 | 110 |
| 83-32-9 | Acenaphthene | 19 | U | 370 | 19 | 11 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1012AA | Lab Sample ID: 280-45026-13

Matrix: Solid | Lab File ID: Y5779.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:20

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.3(g) | Date Analyzed: 08/14/2013 21:52

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 21 | J | 370 | 37 | 19 |
| 98-86-2 | Acetophenone | 37 | U | 370 | 37 | 22 |
| 120-12-7 | Anthracene | 37 | U | 370 | 37 | 19 |
| 1912-24-9 | Atrazine | 140 | U | 370 | 140 | 41 |
| 100-52-7 | Benzaldehyde | 74 | U | 370 | 74 | 43 |
| 92-87-5 | Benzidine | 4400 | U | 4400 | 4400 | 1100 |
| 56-55-3 | Benzo[a]anthracene | 38 | J | 370 | 37 | 22 |
| 50-32-8 | Benzo[a]pyrene | 46 | J | 370 | 37 | 22 |
| 205-99-2 | Benzo[b]fluoranthene | 75 | J | 370 | 37 | 29 |
| 191-24-2 | Benzo[g,h,i]perylene | 39 | J | 370 | 37 | 18 |
| 207-08-9 | Benzo[k]fluoranthene | 73 | U | 370 | 73 | 44 |
| 65-85-0 | Benzoic acid | 730 | U | 1800 | 730 | 370 |
| 100-51-6 | Benzyl alcohol | 37 | U | 370 | 37 | 11 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 73 | U | 370 | 73 | 25 |
| 111-44-4 | Bis(2-chloroethyl)ether | 37 | U | 370 | 37 | 18 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 73 | U | 370 | 73 | 51 |
| 85-68-7 | Butyl benzyl phthalate | 73 | U | 370 | 73 | 48 |
| 105-60-2 | Caprolactam | 370 | U | 1800 | 370 | 120 |
| 86-74-8 | Carbazole | 74 | U | 370 | 74 | 40 |
| 218-01-9 | Chrysene | 52 | J | 370 | 37 | 30 |
| 53-70-3 | Dibenz(a,h)anthracene | 37 | U | 370 | 37 | 21 |
| 132-64-9 | Dibenzofuran | 37 | U | 370 | 37 | 22 |
| 84-66-2 | Diethyl phthalate | 37 | U | 730 | 37 | 29 |
| 131-11-3 | Dimethyl phthalate | 190 | J | 370 | 37 | 25 |
| 84-74-2 | Di-n-butyl phthalate | 37 | U | 370 | 37 | 32 |
| 117-84-0 | Di-n-octyl phthalate | 73 | U | 370 | 73 | 16 |
| 206-44-0 | Fluoranthene | 65 | J | 370 | 73 | 40 |
| 86-73-7 | Fluorene | 37 | U | 370 | 37 | 20 |
| 118-74-1 | Hexachlorobenzene | 73 | U | 370 | 73 | 32 |
| 87-68-3 | Hexachlorobutadiene | 73 | U | 370 | 73 | 11 |
| 77-47-4 | Hexachlorocyclopentadiene | 73 | U | 1900 | 73 | 55 |
| 67-72-1 | Hexachloroethane | 37 | U | 370 | 37 | 24 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 30 | J | 370 | 37 | 24 |
| 78-59-1 | Isophorone | 37 | U | 370 | 37 | 19 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: B255SCS1012AA | Lab Sample ID: 280-45026-13

Matrix: Solid | Lab File ID: Y5779.D

Analysis Method: 8270D/DoD | Date Collected: 07/29/2013 15:20

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 31.3(g) | Date Analyzed: 08/14/2013 21:52

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 73 | U | 370 | 73 | 34 |
| 98-95-3 | Nitrobenzene | 37 | U | 370 | 37 | 24 |
| 62-75-9 | N-Nitrosodimethylamine | 73 | U | 580 | 73 | 41 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 73 | U | 370 | 73 | 34 |
| 86-30-6 | N-Nitrosodiphenylamine | 37 | U | 370 | 37 | 23 |
| 930-55-2 | N-Nitrosopyrrolidine | 140 | U | 370 | 140 | 71 |
| 87-86-5 | Pentachlorophenol | 740 | U | 1800 | 740 | 370 |
| 85-01-8 | Phenanthrene | 29 | J | 370 | 37 | 19 |
| 108-95-2 | Phenol | 37 | U | 370 | 37 | 20 |
| 129-00-0 | Pyrene | 85 | J | 440 | 37 | 13 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 87 | | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 84 | | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 80 | | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 78 | | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 85 | | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 93 | | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D
Lims ID: 280-45026-A-13-A
Client ID: B255SCS1012AA
Inject. Date: 14-Aug-2013 21:52:30
Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-45026-a-13-a
Misc. Info.: 186667 =186667
Operator: hoffmanm
Instrument ID: SMS_Y
Injection Vol: 0.5 ul
ALS Bottle#: 27
Lims Batch ID: 187134
Lims Sample ID: 29
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41
Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE
ID Type: Deconvolution ID
Column Type: VF-5ms
Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm
Date: 15-Aug-2013 09:56:06

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.152 | 4.149 | 0.003 | 95 | 320681 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.192 | 5.189 | 0.003 | 99 | 1216347 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.661 | 6.658 | 0.003 | 91 | 733318 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.913 | 7.909 | 0.004 | 97 | 1221297 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.291 | 11.288 | 0.003 | 85 | 1255806 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.069 | 15.060 | 0.009 | 98 | 1225891 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.124 | 3.127 | 0.001 | 90 | 932696 | 79.9 | |
| $ 8 Phenol-d5 | 99 | 3.841 | 3.839 | 0.007 | 90 | 1221135 | 85.0 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.605 | 4.609 | 0.001 | 86 | 943383 | 78.3 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.074 | 6.072 | 0.002 | 99 | 1994868 | 84.4 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.325 | 7.324 | 0.001 | 91 | 442785 | 86.9 | |
| $ 13 Terphenyl-d14 | 244 | 9.464 | 9.457 | 0.007 | 98 | 2361450 | 93.2 | |
| 28 N-Nitrosodimethylamine | 74 | | 2.106 | | | | | |
| 39 Benzaldehyde | 106 | | 3.811 | | | | | |
| 40 Phenol | 94 | | 3.846 | | | | | 9 |
| 45 Bis(2-chloroethyl)ether | 93 | | 3.922 | | | | | |
| 48 2-Chlorophenol | 128 | | 3.987 | | | | | 9 |
| 49 1,3-Dichlorobenzene | 146 | | 4.104 | | | | | |
| 50 1,4-Dichlorobenzene | 146 | | 4.163 | | | | | |
| 51 Benzyl alcohol | 108 | | 4.251 | | | | | 9 |
| 52 1,2-Dichlorobenzene | 146 | | 4.292 | | | | | |
| 54 2-Methylphenol | 108 | | 4.327 | | | | | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | | 4.339 | | | | | |
| 60 3 & 4 Methylphenol | 108 | | 4.451 | | | | | |
| 61 N-Nitrosodi-n-propylamine | 70 | | 4.451 | | | | | |
| 62 N-Nitrosopyrrolidine | 100 | | 4.460 | | | | | 9 |
| 63 Acetophenone | 105 | | 4.468 | | | | | |
| 66 Hexachloroethane | 117 | | 4.562 | | | | | |
| 67 Nitrobenzene | 77 | | 4.615 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 71 Isophorone | 82 | | 4.797 | | | | | |
| 73 2,4-Dimethylphenol | 107 | | 4.880 | | | | | 9 |
| 74 2-Nitrophenol | 139 | | 4.874 | | | | | |
| 77 Benzoic acid | 105 | | 4.974 | | | | | |
| 78 Bis(2-chloroethoxy)methane | 93 | | 4.956 | | | | | |
| 82 2,4-Dichlorophenol | 162 | | 5.068 | | | | | |
| 84 1,2,4-Trichlorobenzene | 180 | | 5.138 | | | | | |
| 87 Naphthalene | 128 | | 5.209 | | | | | 9 |
| 88 4-Chloroaniline | 127 | | 5.250 | | | | | |
| 89 2,6-Dichlorophenol | 162 | | 5.254 | | | | | |
| 91 Hexachlorobutadiene | 225 | | 5.285 | | | | | |
| 94 Caprolactam | 55 | | 5.538 | | | | | |
| 97 4-Chloro-3-methylphenol | 107 | | 5.632 | | | | | |
| 101 2-Methylnaphthalene | 142 | | 5.773 | | | | | 9 |
| 105 Hexachlorocyclopentadiene | 237 | | 5.896 | | | | | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | | 5.914 | | | | | |
| 108 2,4,6-Trichlorophenol | 196 | | 6.008 | | | | | |
| 110 2,4,5-Trichlorophenol | 196 | | 6.043 | | | | | |
| 112 1,1'-Biphenyl | 154 | | 6.161 | | | | | |
| 114 2-Chloronaphthalene | 162 | | 6.190 | | | | | |
| 116 2-Nitroaniline | 65 | | 6.278 | | | | | |
| 119 Dimethyl phthalate | 163 | 6.397 | 6.396 | 0.001 | 98 | 116466 | 5.24 | |
| 121 2,6-Dinitrotoluene | 165 | | 6.466 | | | | | 9 |
| 122 Acenaphthylene | 152 | 6.544 | 6.542 | 0.002 | 80 | 18367 | 0.5824 | |
| 123 3-Nitroaniline | 138 | | 6.625 | | | | | |
| 124 Acenaphthene | 153 | | 6.683 | | | | | 9 |
| 126 2,4-Dinitrophenol | 184 | | 6.707 | | | | | |
| 127 4-Nitrophenol | 109 | | 6.760 | | | | | |
| 130 2,4-Dinitrotoluene | 165 | | 6.807 | | | | | |
| 132 Dibenzofuran | 168 | | 6.824 | | | | | 9 |
| 134 2,3,4,6-Tetrachlorophenol | 232 | | 6.924 | | | | | |
| 139 Diethyl phthalate | 149 | | 6.977 | | | | | 9 |
| 142 4-Chlorophenyl phenyl ether | 204 | | 7.095 | | | | | |
| 143 Fluorene | 166 | | 7.112 | | | | | |
| 146 4-Nitroaniline | 138 | | 7.148 | | | | | |
| 147 4,6-Dinitro-2-methylphenol | 198 | | 7.153 | | | | | |
| 150 N-Nitrosodiphenylamine | 169 | | 7.200 | | | | | 9 |
| 151 1,2-Diphenylhydrazine | 77 | | 7.230 | | | | | |
| 164 4-Bromophenyl phenyl ether | 248 | | 7.506 | | | | | |
| 165 Hexachlorobenzene | 284 | | 7.577 | | | | | |
| 167 Atrazine | 200 | | 7.624 | | | | | |
| 171 Pentachlorophenol | 266 | | 7.747 | | | | | |
| 176 Phenanthrene | 178 | 7.930 | 7.936 | 0.001 | 93 | 25259 | 0.7979 | |
| 177 Anthracene | 178 | | 7.976 | | | | | |
| 178 Carbazole | 167 | | 8.111 | | | | | 9 |
| 181 Di-n-butyl phthalate | 149 | | 8.329 | | | | | |
| 188 Fluoranthene | 202 | 9.035 | 9.040 | 0.001 | 96 | 61433 | 1.76 | |
| 189 Benzidine | 184 | | 9.175 | | | | | |
| 191 Pyrene | 202 | 9.311 | 9.316 | 0.001 | 94 | 75197 | 2.31 | |
| 198 Butyl benzyl phthalate | 149 | | 10.150 | | | | | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | | 11.213 | | | | | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.225 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 206 Benzo[a]anthracene | 228 | 11.262 | 11.260 | 0.002 | 63 | 32172 | 1.04 | |
| 207 Chrysene | 228 | 11.344 | 11.343 | 0.001 | 88 | 41160 | 1.40 | |
| 209 Di-n-octyl phthalate | 149 | | 12.853 | | | | | |
| 211 Benzo[b]fluoranthene | 252 | 13.935 | 13.946 | 0.001 | 85 | 62287 | 2.02 | |
| 212 Benzo[k]fluoranthene | 252 | 14.017 | 13.999 | 0.007 | 74 | 18003 | 0.5282 | |
| 215 Benzo[a]pyrene | 252 | 14.887 | 14.881 | 0.007 | 70 | 39771 | 1.26 | |
| 221 Dibenz(a,h)anthracene | 278 | | 18.434 | | | | | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.359 | 18.354 | 0.013 | 75 | 21714 | 0.8133 | |
| 223 Benzo[g,h,i]perylene | 276 | 19.135 | 19.141 | 0.001 | 78 | 32806 | 1.05 | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

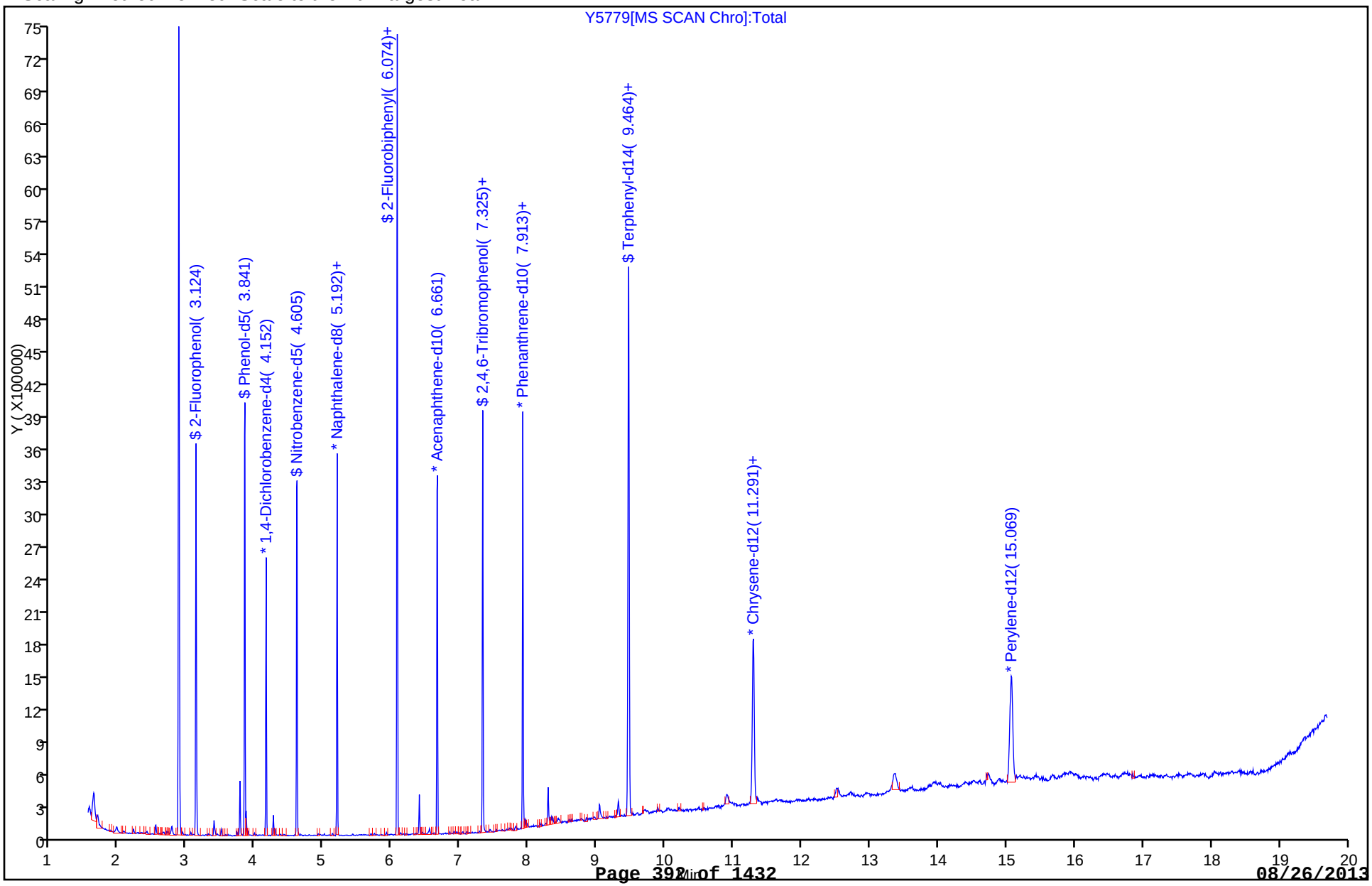
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



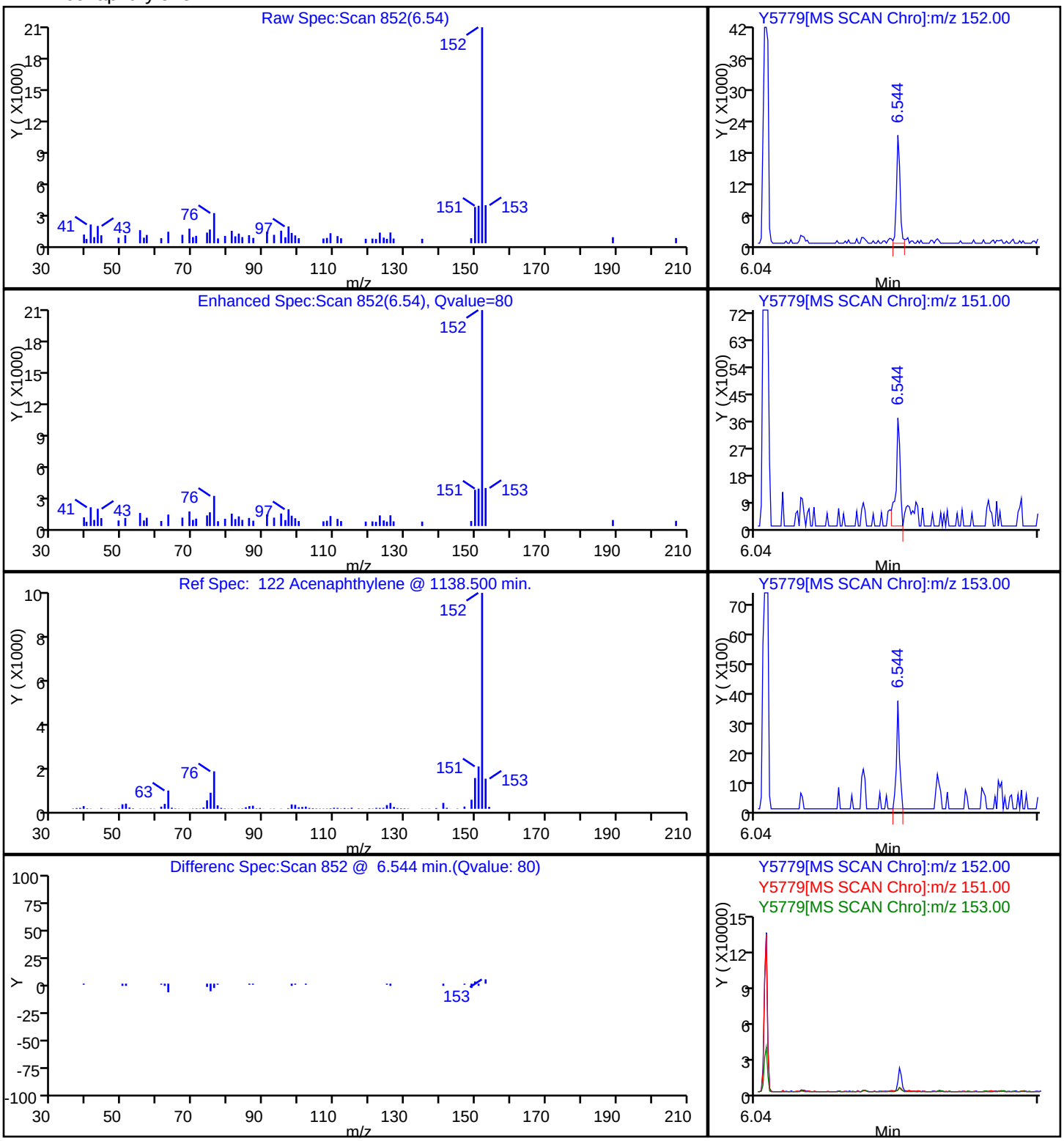
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

122 Acenaphthylene



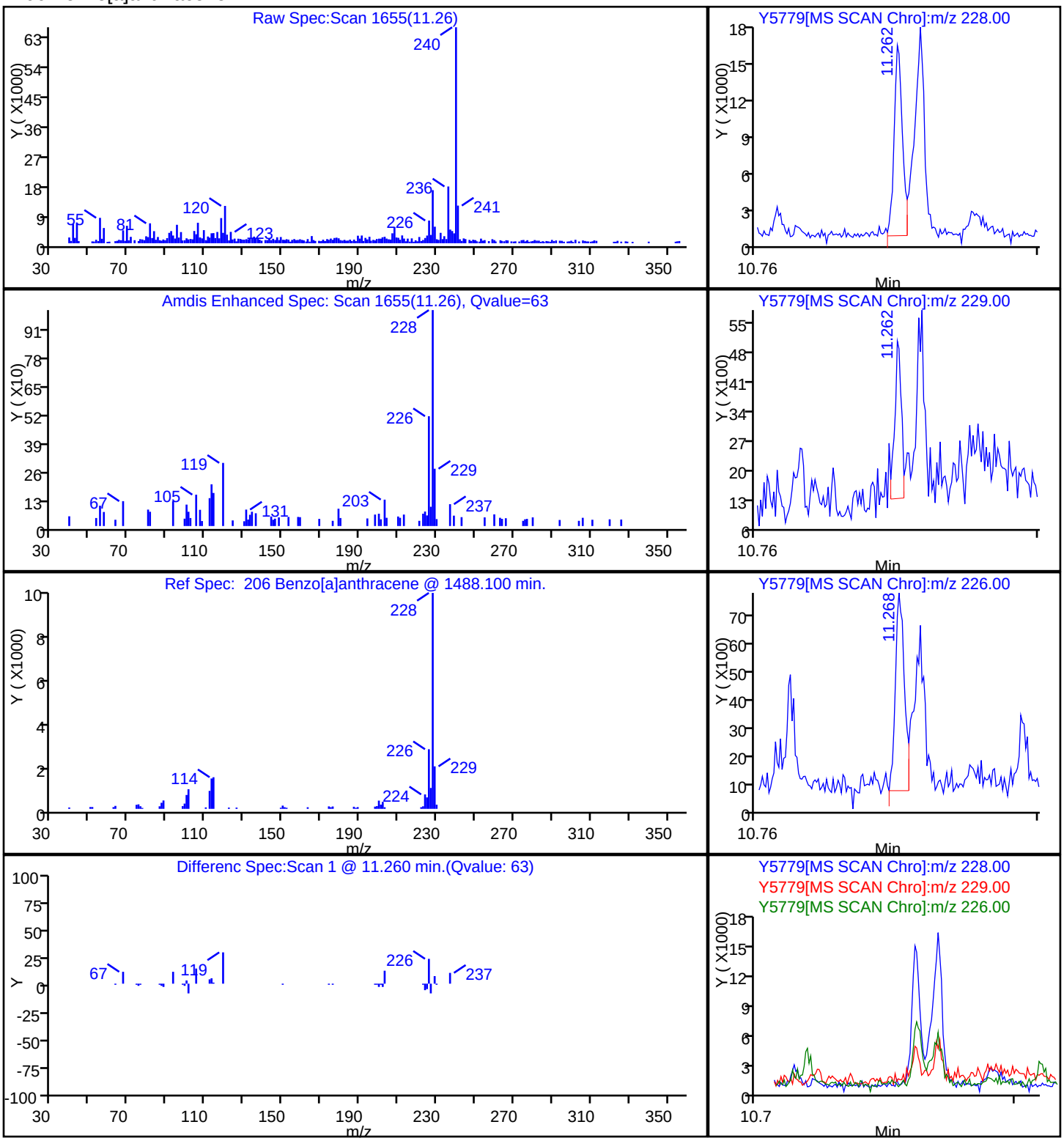
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

206 Benzo[a]anthracene

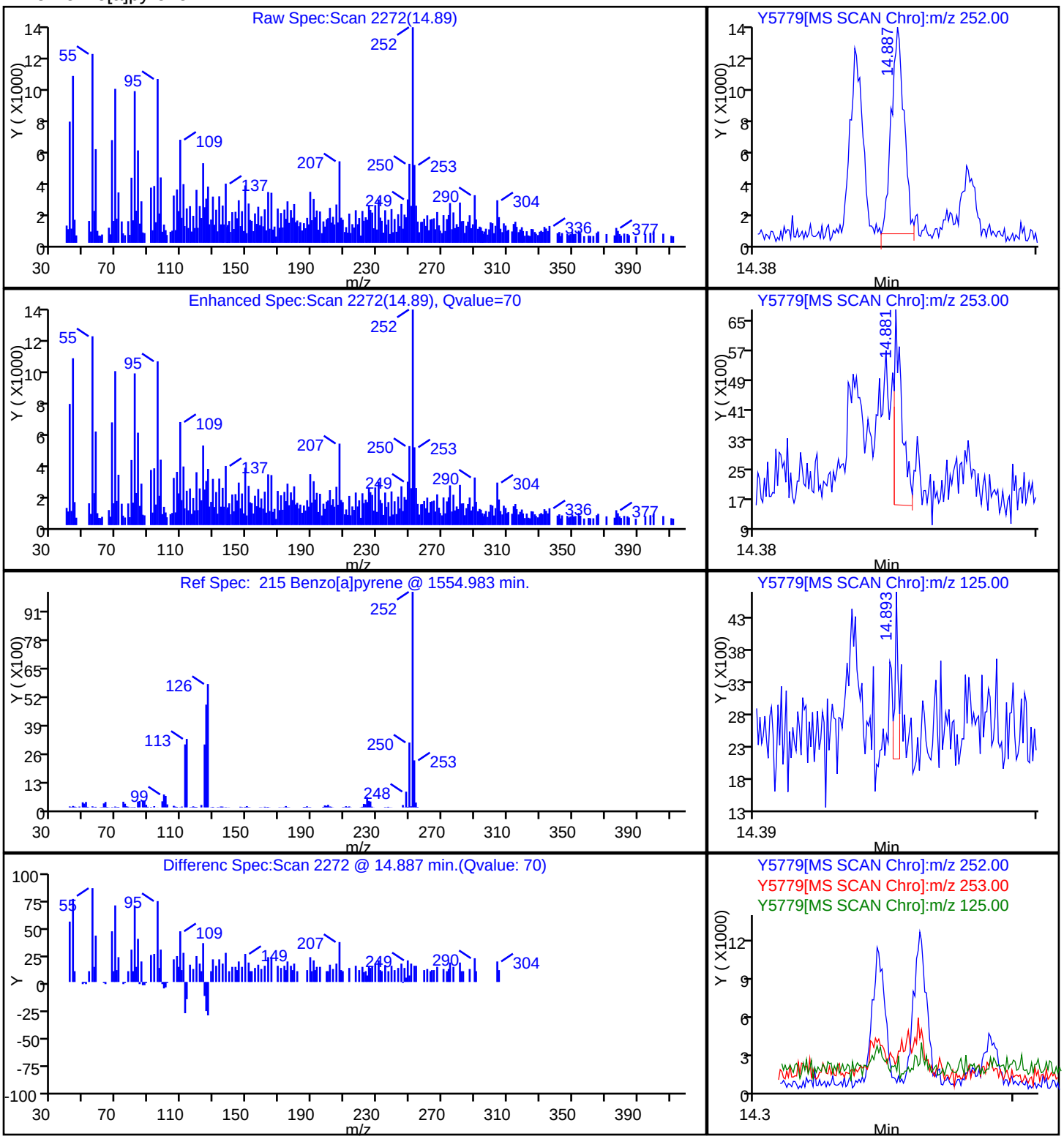


Report Date: 15-Aug-2013 10:01:58 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D | | |
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

215 Benzo[a]pyrene



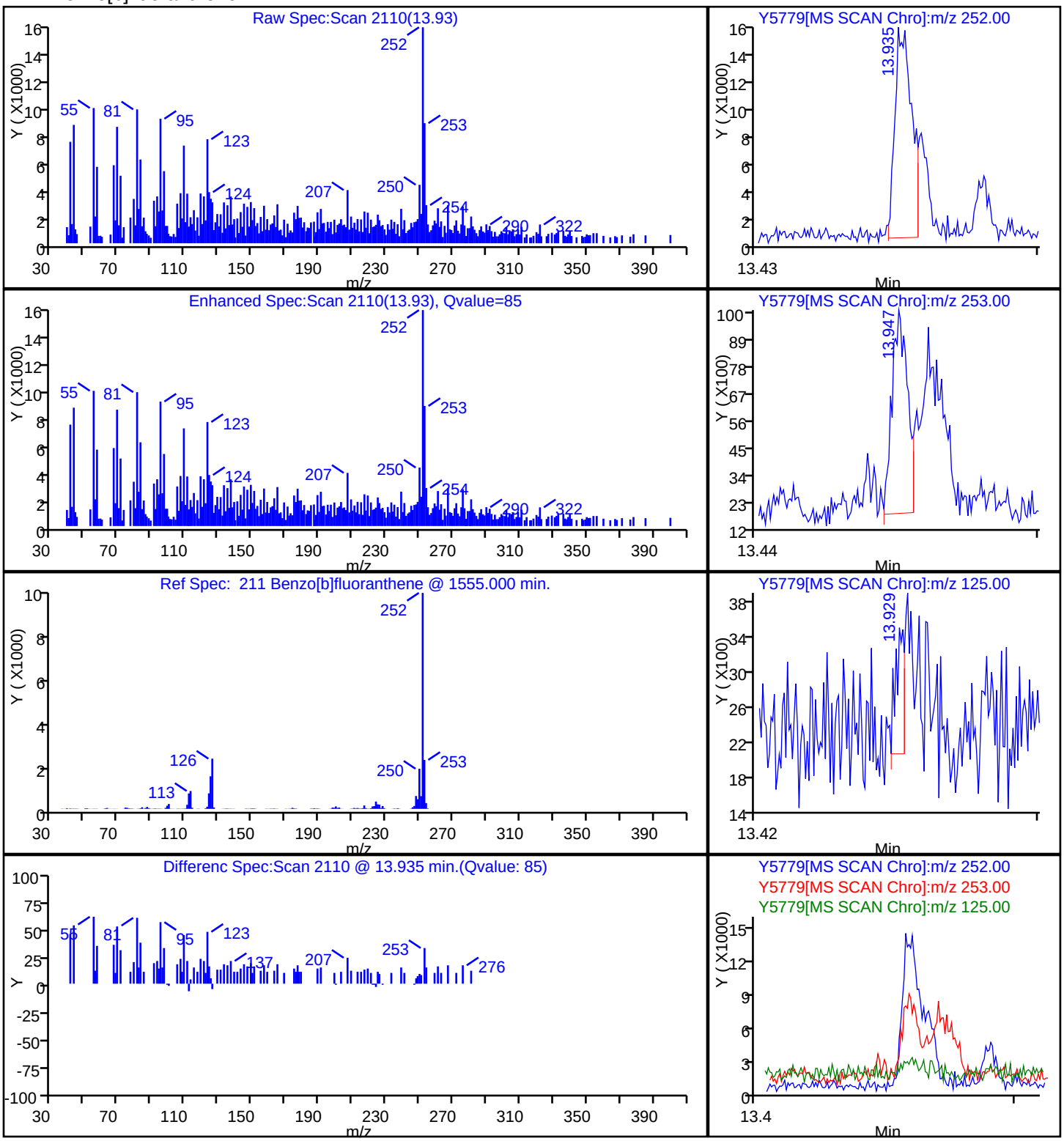
Report Date: 15-Aug-2013 10:01:58 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

211 Benzo[b]fluoranthene



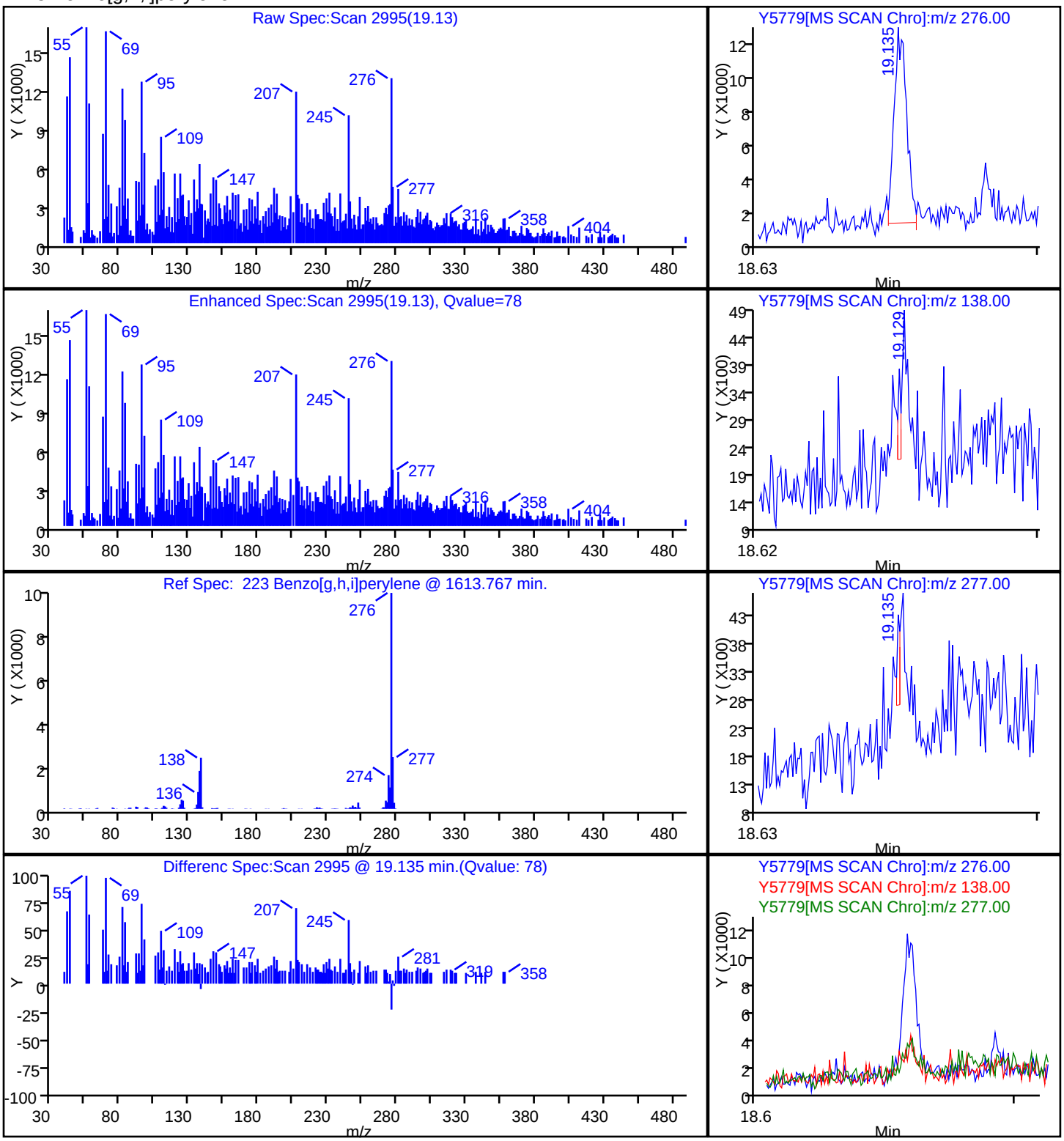
Report Date: 15-Aug-2013 10:01:58 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

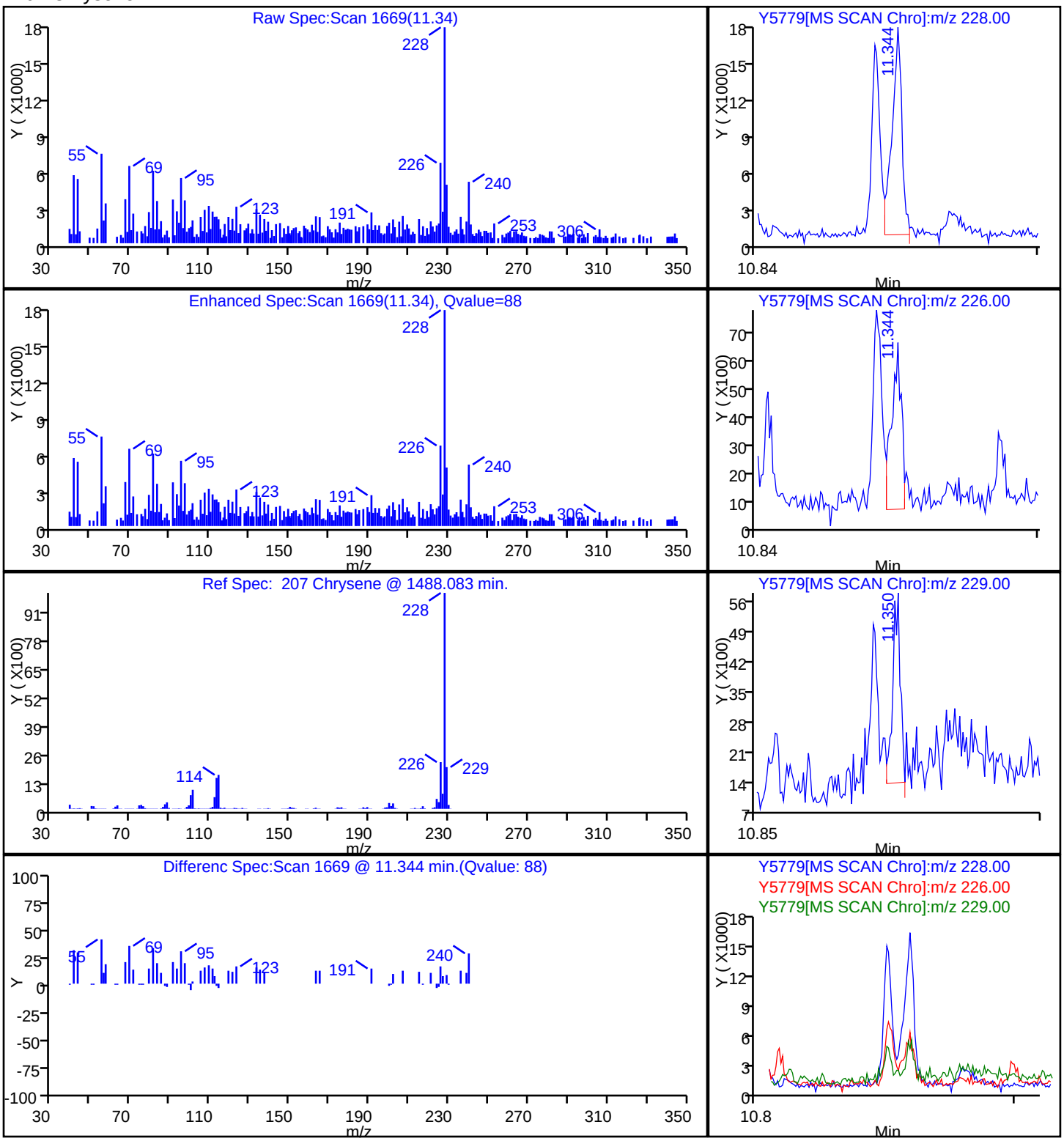
223 Benzo[g,h,i]perylene



TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D | | |
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

207 Chrysene



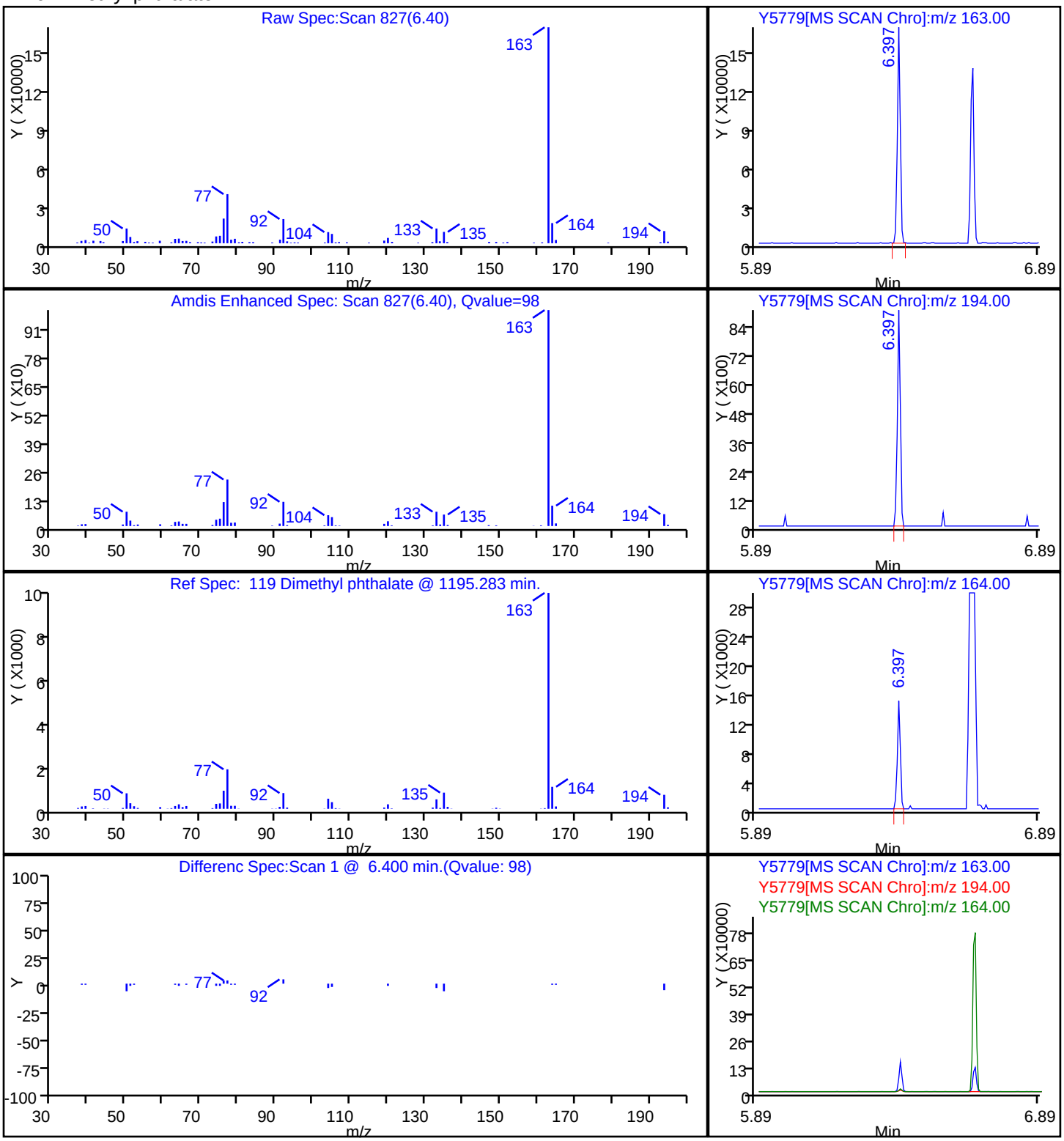
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

119 Dimethyl phthalate



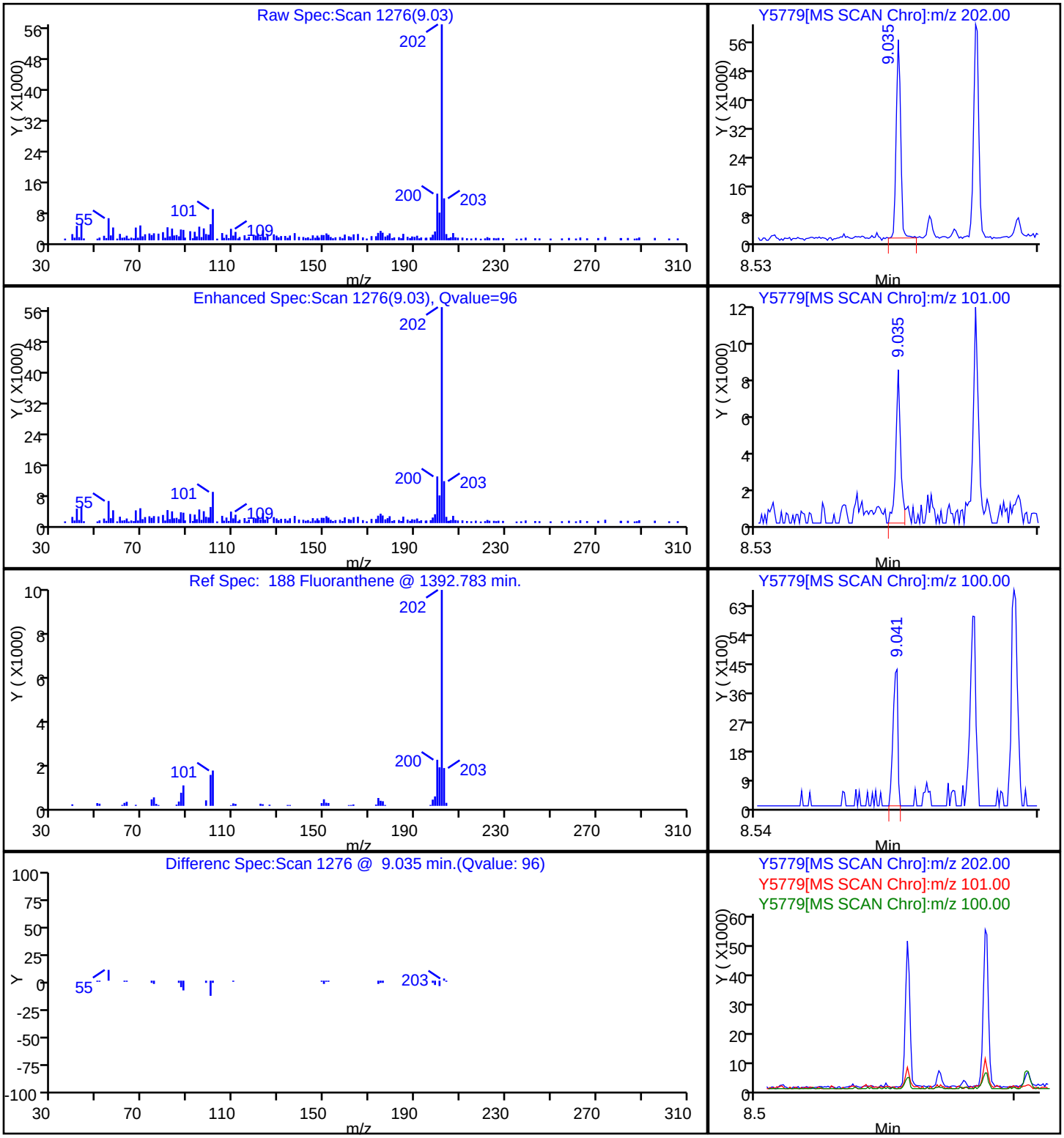
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

188 Fluoranthene



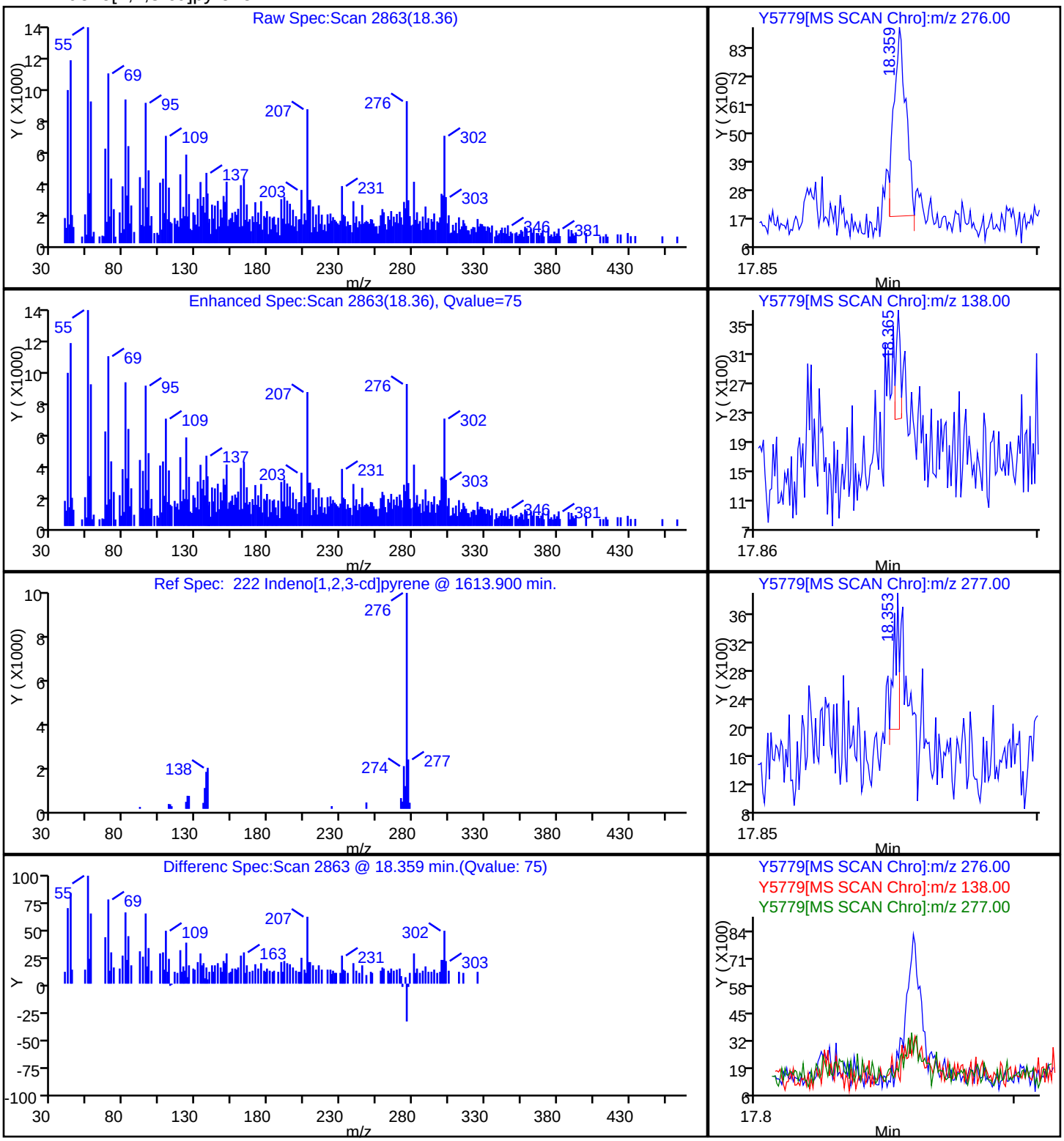
Report Date: 15-Aug-2013 10:01:58 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene



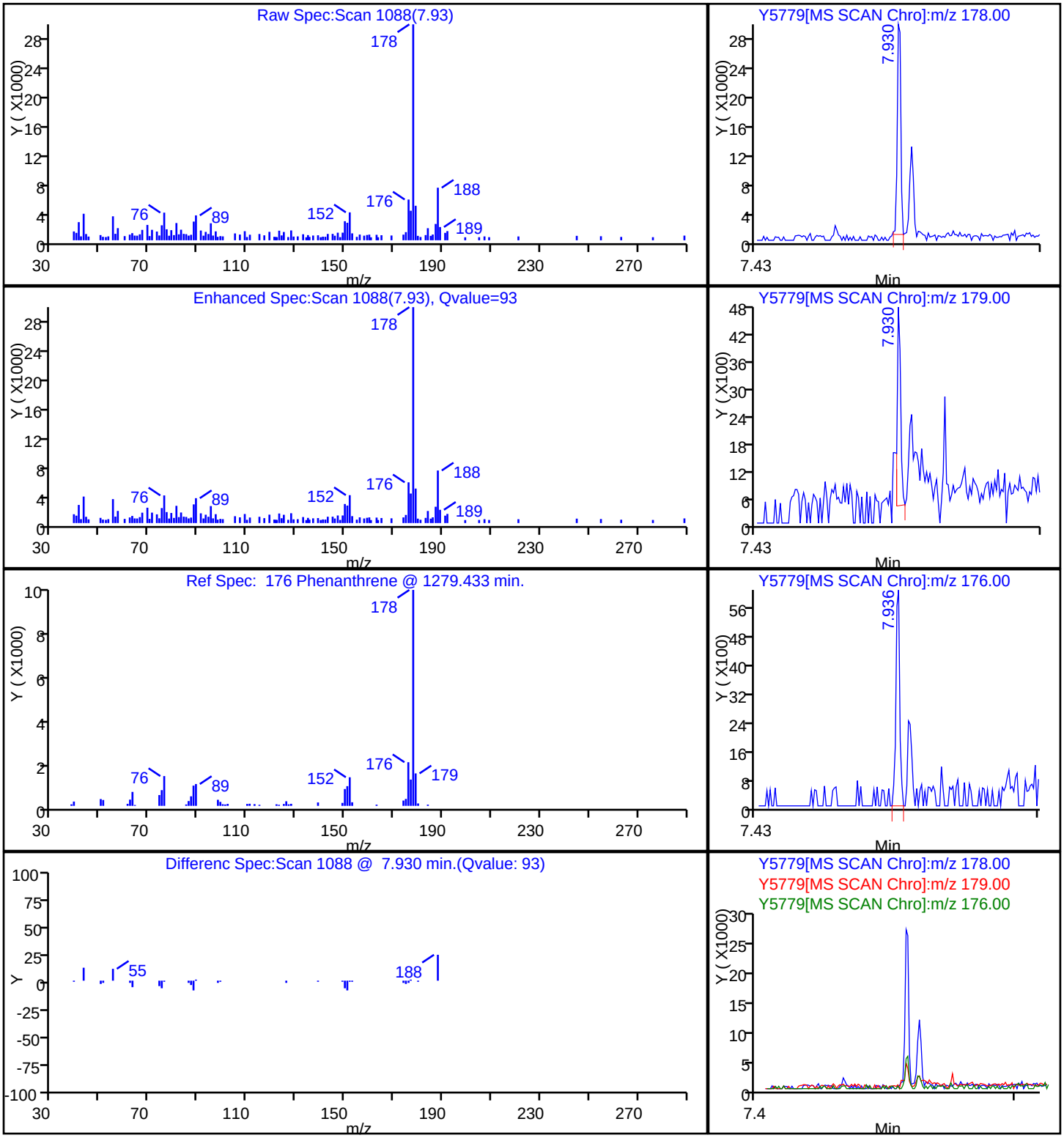
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

176 Phenanthrene



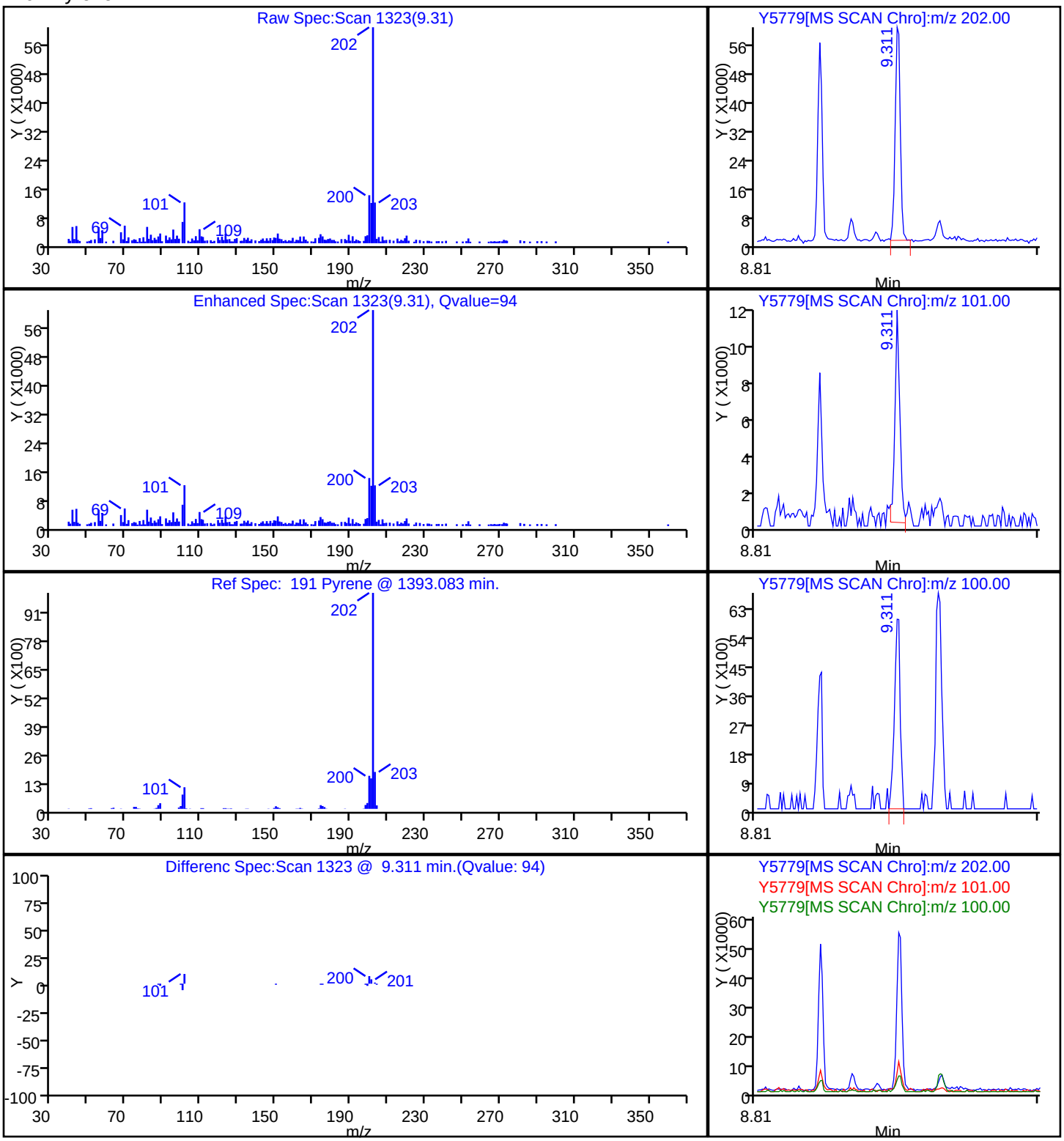
Report Date: 15-Aug-2013 10:01:57 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5779.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 21:52:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | B255SCS1012AA | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 29 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

191 Pyrene



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 177034

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2013 17:14 Calibration End Date: 06/03/2013 20:03 Calibration ID: 14317

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-177034/17 | Y4766.D |
| Level 2 | IC 280-177034/16 | Y4765.D |
| Level 3 | IC 280-177034/15 | Y4764.D |
| Level 4 | IC 280-177034/14 | Y4763.D |
| Level 5 | IC 280-177034/13 | Y4762.D |
| Level 6 | IC 280-177034/12 | Y4761.D |
| Level 7 | IC 280-177034/11 | Y4760.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Benzaldehyde | 1.1711<br>1.2116 | 1.2162<br>1.1727 | 1.2439 | 1.2269 | 1.1973 | Ave | | 1.2057 | | | | 2.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 177034

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2013 17:14 Calibration End Date: 06/03/2013 20:03 Calibration ID: 14317

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-177034/17 | Y4766.D |
| Level 2 | IC 280-177034/16 | Y4765.D |
| Level 3 | IC 280-177034/15 | Y4764.D |
| Level 4 | IC 280-177034/14 | Y4763.D |
| Level 5 | IC 280-177034/13 | Y4762.D |
| Level 6 | IC 280-177034/12 | Y4761.D |
| Level 7 | IC 280-177034/11 | Y4760.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Benzaldehyde | DCB | Ave | 78824<br>1316289 | 159291<br>1556707 | 419146 | 667282 | 993687 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |

Curve Type Legend:
Ave = Average ISTD

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4760.D | | |
| Lims ID: | IC BZHD200 | Client ID: | |
| Inject. Date: | 03-Jun-2013 17:14:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 8 |
| Sample ID: | IC BZHD200 | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 10 |
| Lims Batch ID: | 177034 | Lims Sample ID: | 11 |
| Sublist: | chrom-SMSY_8270C*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 05-Jun-2013 08:48:53 | Calib Date: | 03-Jun-2013 20:03:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | DENPC246 | | |
| First Level Reviewer: | hoffmanm | Date: | 04-Jun-2013 07:03:04 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.206 | 4.206 | 0.0 | 97 | 265487 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.234 | 5.234 | 0.0 | 100 | 1014489 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.703 | 6.703 | 0.0 | 84 | 591650 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.960 | 7.960 | 0.0 | 96 | 1010566 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.403 | 11.403 | 0.0 | 80 | 1081334 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.240 | 15.240 | 0.0 | 87 | 963285 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.877 | 3.880 | 0.0 | 91 | 1556707 | 194.5 | |

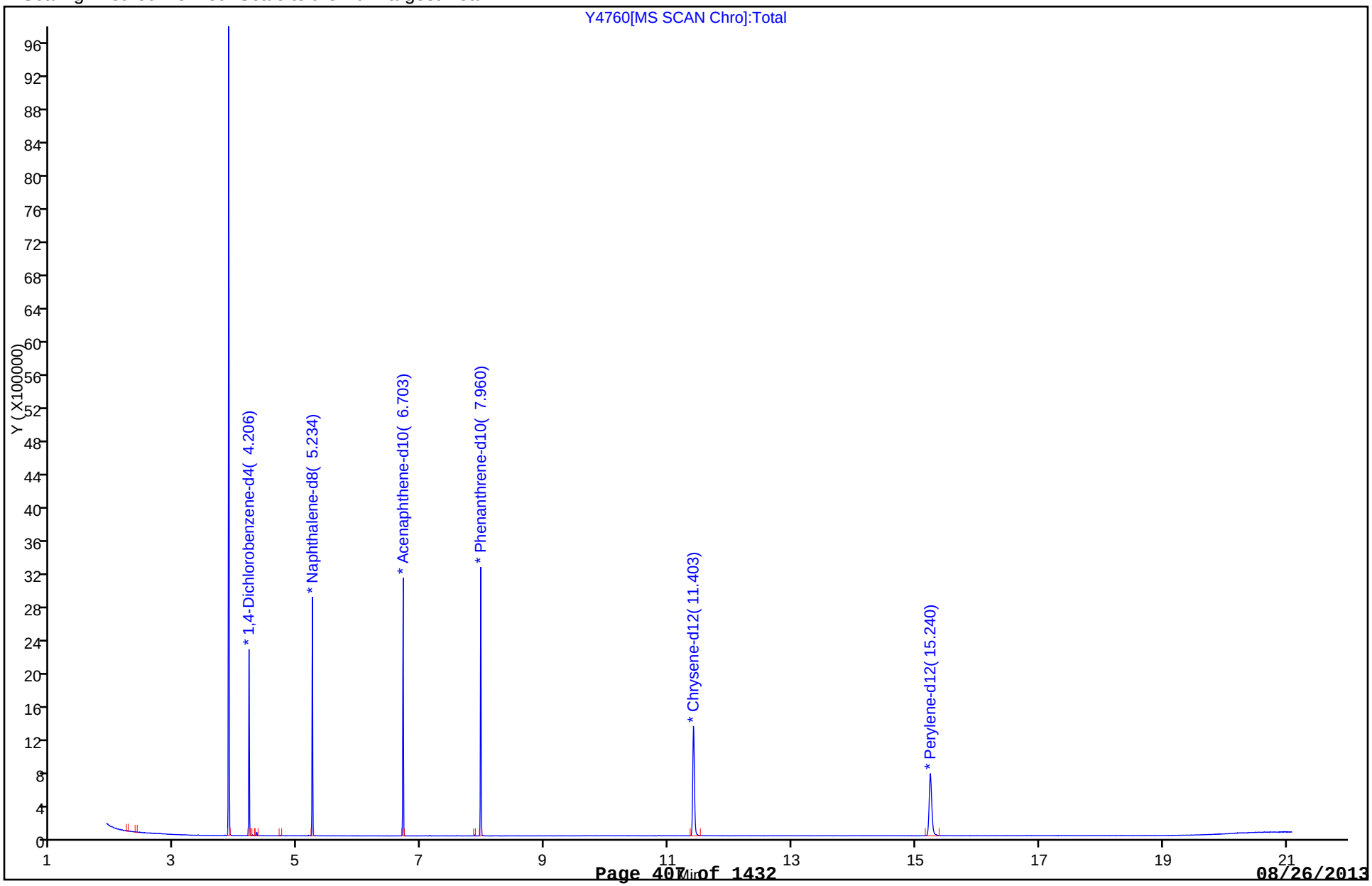
Report Date: 05-Jun-2013 08:48:53 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4760.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 17:14:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 11 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4761.D | | |
| Lims ID: | IC BZHD160 | Client ID: | |
| Inject. Date: | 03-Jun-2013 17:43:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | IC BZHD160 | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 11 |
| Lims Batch ID: | 177034 | Lims Sample ID: | 12 |
| Sublist: | chrom-SMSY_8270C*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 05-Jun-2013 08:48:54 | Calib Date: | 03-Jun-2013 20:03:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | DENPC246 | | |
| First Level Reviewer: hoffmanm | | Date: | 04-Jun-2013 07:03:53 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.209 | 4.206 | 0.003 | 97 | 271592 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.234 | -0.003 | 100 | 1049601 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.700 | 6.703 | -0.003 | 86 | 598367 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.957 | 7.960 | -0.003 | 96 | 1036725 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.406 | 11.403 | 0.003 | 81 | 1100394 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.237 | 15.240 | -0.003 | 84 | 975641 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.880 | 3.880 | 0.003 | 92 | 1316289 | 160.8 | |

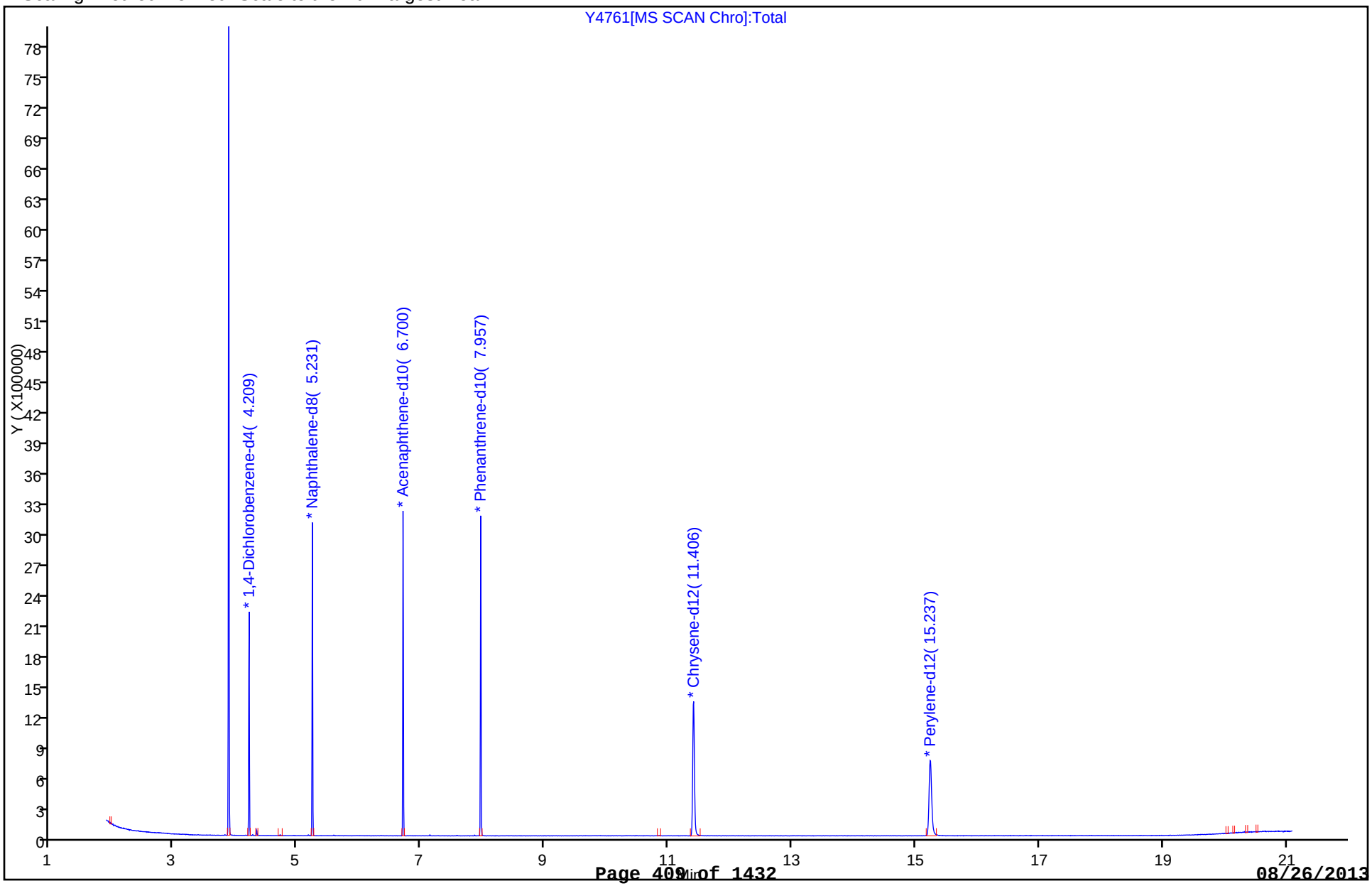
Report Date: 05-Jun-2013 08:48:55 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4761.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 17:43:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 12 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4762.D | | |
| Lims ID: | IC BZHD120 | Client ID: | |
| Inject. Date: | 03-Jun-2013 18:11:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | IC BZHD120 | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 12 |
| Lims Batch ID: | 177034 | Lims Sample ID: | 13 |
| Sublist: | chrom-SMSY_8270C*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 05-Jun-2013 08:48:55 | Calib Date: | 03-Jun-2013 20:03:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | DENPC246 | | |
| First Level Reviewer: hoffmanm | | Date: | 04-Jun-2013 07:03:58 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.205 | 4.206 | -0.001 | 97 | 276644 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.233 | 5.234 | -0.001 | 99 | 1042302 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.702 | 6.703 | -0.001 | 91 | 597603 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.959 | 7.960 | -0.001 | 96 | 1008184 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.402 | 11.403 | -0.001 | 81 | 1072425 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.239 | 15.240 | -0.001 | 98 | 973234 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.876 | 3.880 | -0.001 | 91 | 993687 | 119.2 | |

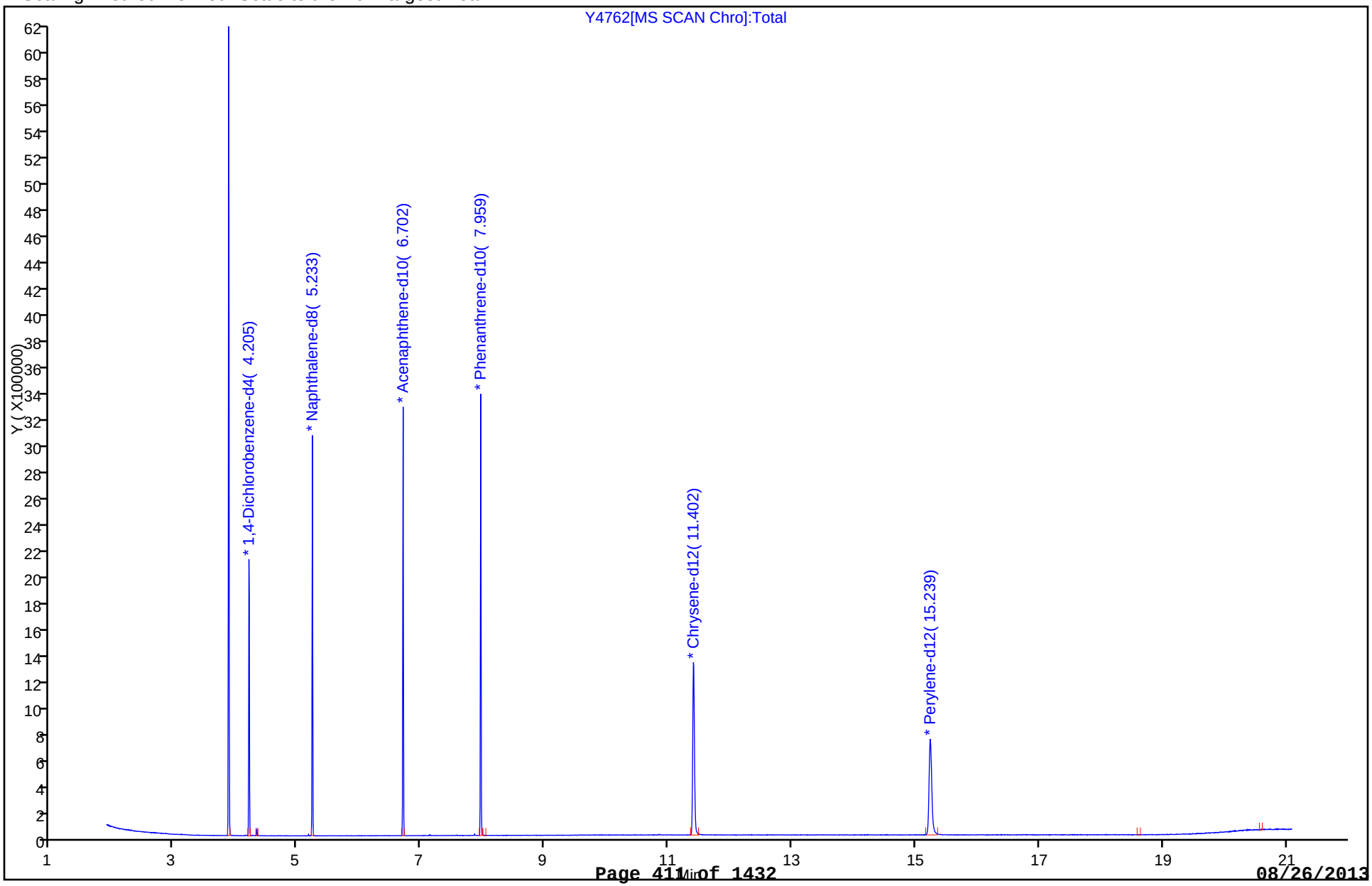
Report Date: 05-Jun-2013 08:48:56 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4762.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 18:11:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 13 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4763.D | | |
| Lims ID: | IC BZHD080 | Client ID: | |
| Inject. Date: | 03-Jun-2013 18:39:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | IC BZHD080 | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 13 |
| Lims Batch ID: | 177034 | Lims Sample ID: | 14 |
| Sublist: | chrom-SMSY_8270C*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 05-Jun-2013 08:48:57 | Calib Date: | 03-Jun-2013 20:03:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | DENPC246 | | |
| First Level Reviewer: hoffmanm | | Date: | 04-Jun-2013 07:04:04 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.206 | 4.206 | 0.0 | 98 | 271941 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.234 | 5.234 | 0.0 | 100 | 1043560 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.703 | 6.703 | 0.0 | 91 | 597129 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.960 | 7.960 | 0.0 | 96 | 1015996 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.403 | 11.403 | 0.0 | 80 | 1075424 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.240 | 15.240 | 0.0 | 84 | 950676 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.877 | 3.880 | 0.0 | 92 | 667282 | 81.4 | |

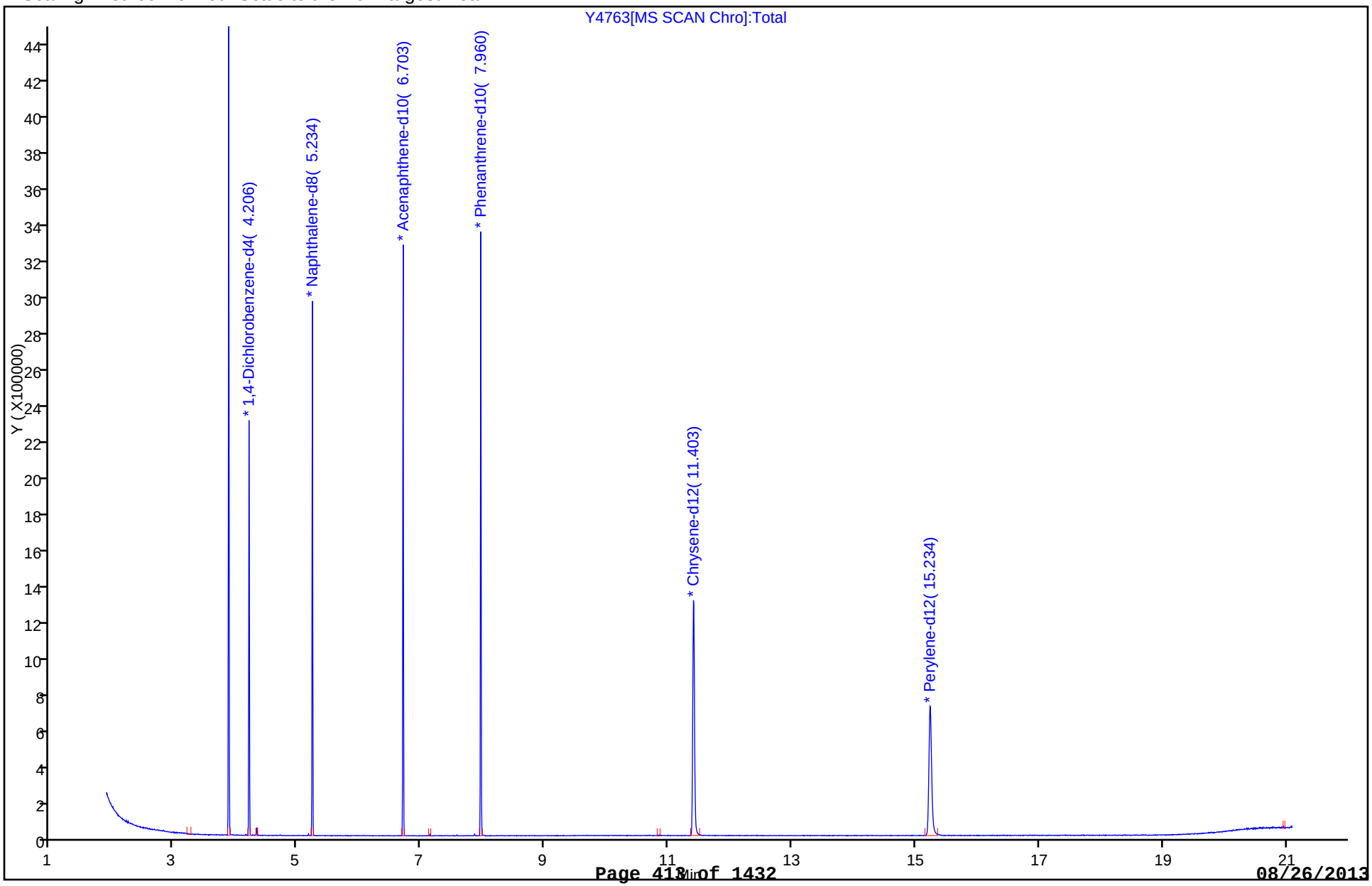
Report Date: 05-Jun-2013 08:48:58 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4763.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 18:39:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 14 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4764.D | | |
| Lims ID: | IC BZHD050 | Client ID: | |
| Inject. Date: | 03-Jun-2013 19:07:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | IC BZHD050 | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 14 |
| Lims Batch ID: | 177034 | Lims Sample ID: | 15 |
| Sublist: | chrom-SMSY_8270C*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 05-Jun-2013 08:48:58 | Calib Date: | 03-Jun-2013 20:03:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | DENPC246 | | |
| First Level Reviewer: hoffmanm | | Date: | 04-Jun-2013 07:04:09 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.210 | 4.206 | 0.004 | 96 | 269566 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.232 | 5.234 | -0.002 | 100 | 1012037 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.701 | 6.703 | -0.002 | 85 | 591278 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.959 | 7.960 | -0.001 | 95 | 1003549 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.402 | 11.403 | -0.001 | 80 | 1065870 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.238 | 15.240 | -0.002 | 84 | 948542 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.875 | 3.880 | -0.002 | 91 | 419146 | 51.6 | |

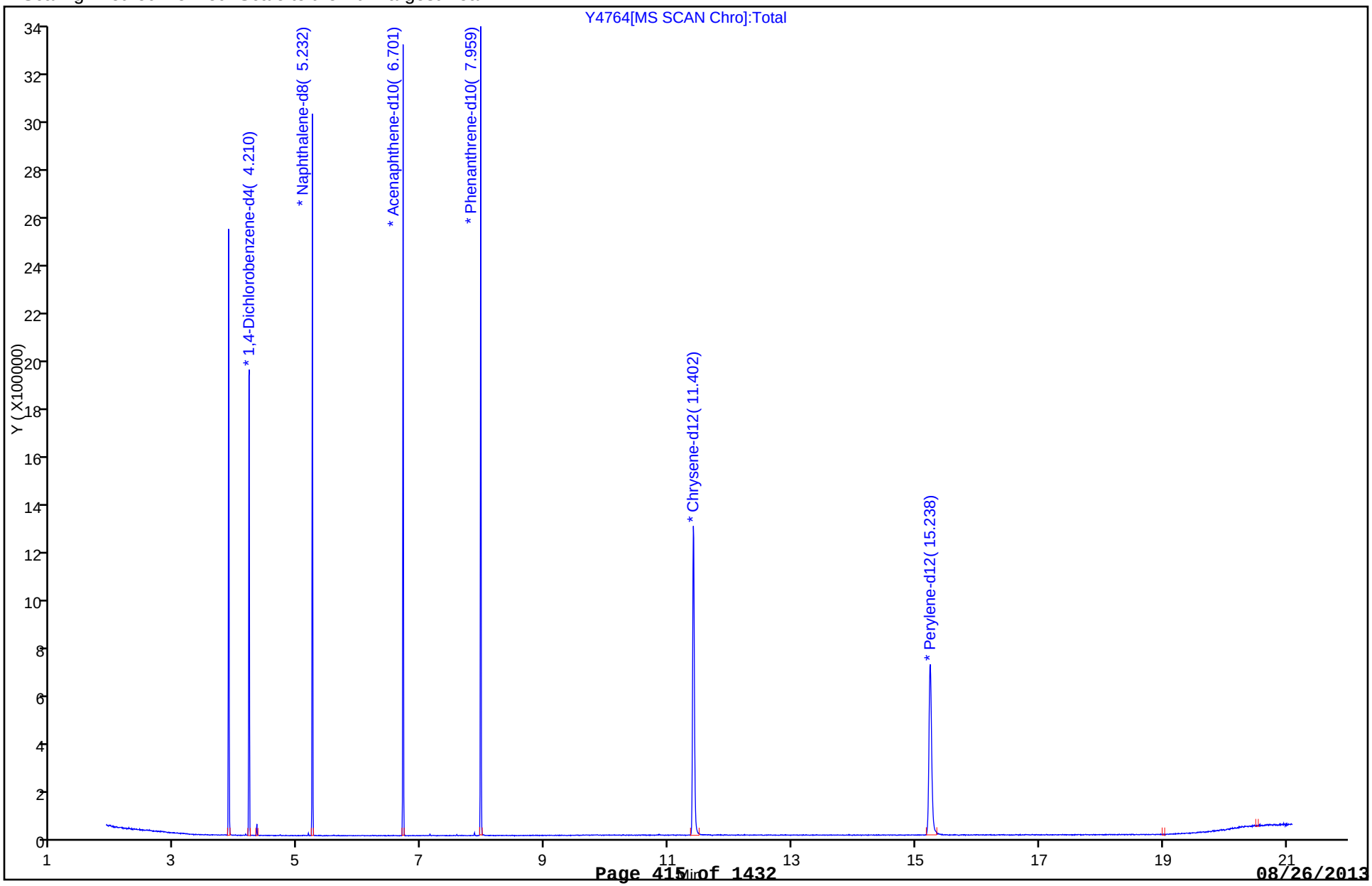
Report Date: 05-Jun-2013 08:48:59 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4764.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 19:07:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 15 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4765.D | | |
| Lims ID: | IC BZHD020 | Client ID: | |
| Inject. Date: | 03-Jun-2013 19:35:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | IC BZHD020 | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 15 |
| Lims Batch ID: | 177034 | Lims Sample ID: | 16 |
| Sublist: | chrom-SMSY_8270C*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 05-Jun-2013 08:49:00 | Calib Date: | 03-Jun-2013 20:03:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | DENPC246 | | |
| First Level Reviewer: hoffmanm | | Date: | 04-Jun-2013 07:04:15 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.208 | 4.206 | 0.002 | 97 | 261953 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.234 | -0.003 | 100 | 1012401 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.699 | 6.703 | -0.004 | 84 | 578407 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.957 | 7.960 | -0.003 | 97 | 985508 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.406 | 11.403 | 0.003 | 80 | 1041376 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.237 | 15.240 | -0.003 | 84 | 914954 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.879 | 3.880 | 0.002 | 91 | 159291 | 20.2 | |

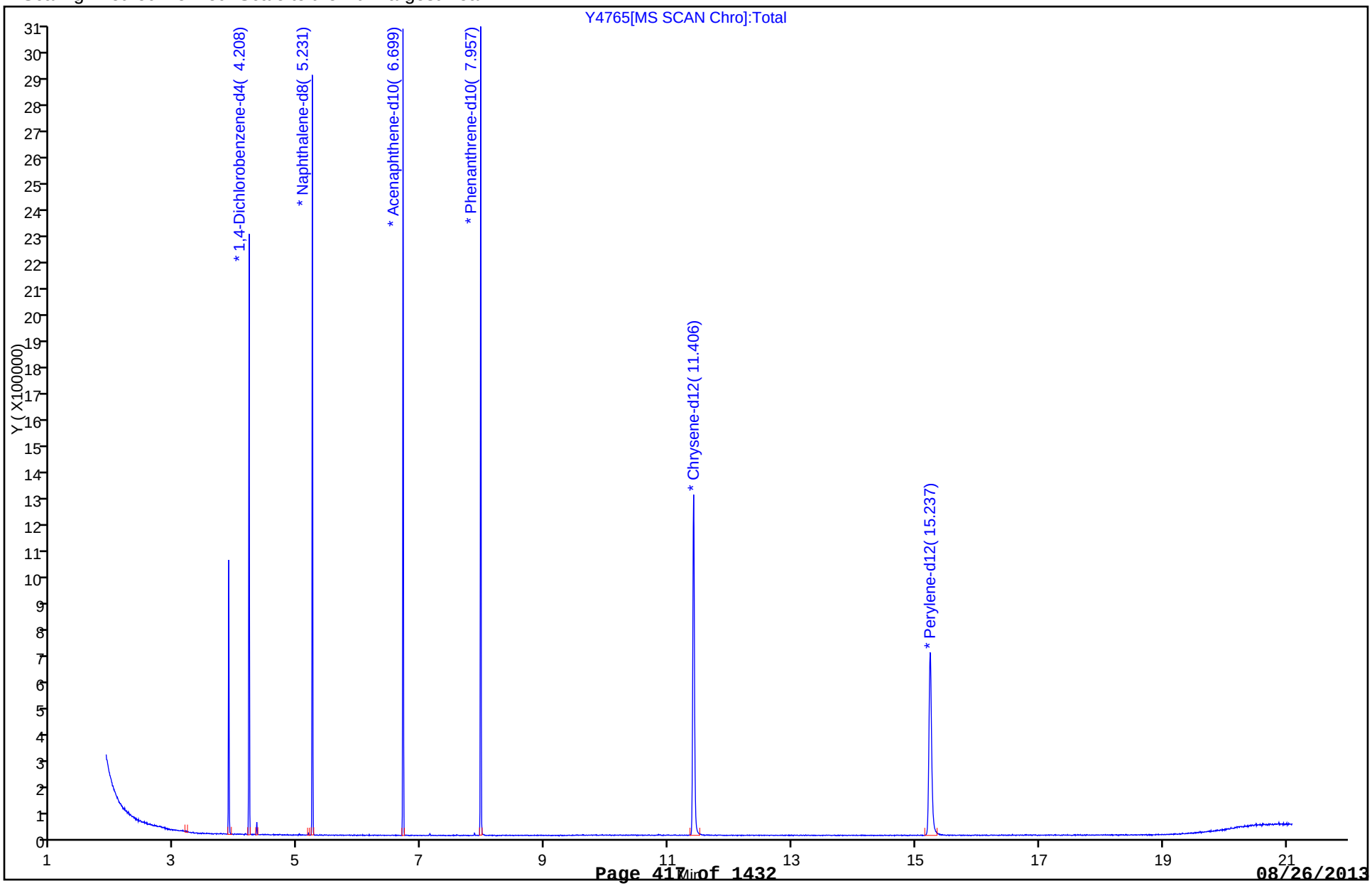
Report Date: 05-Jun-2013 08:49:01 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4765.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 19:35:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 16 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Lims ID: | IC BZHD010 | Client ID: | |
| Inject. Date: | 03-Jun-2013 20:03:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | IC BZHD010 | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 16 |
| Lims Batch ID: | 177034 | Lims Sample ID: | 17 |
| Sublist: | chrom-SMSY_8270C*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 05-Jun-2013 08:49:02 | Calib Date: | 03-Jun-2013 20:03:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | DENPC246 | | |
| First Level Reviewer: hoffmanm | | Date: | 04-Jun-2013 07:04:20 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.209 | 4.206 | 0.003 | 97 | 269230 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.234 | -0.003 | 100 | 1015891 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.700 | 6.703 | -0.003 | 89 | 585369 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.957 | 7.960 | -0.003 | 97 | 998759 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.406 | 11.403 | 0.003 | 80 | 1058751 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.237 | 15.240 | -0.003 | 83 | 940246 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.880 | 3.880 | 0.003 | 90 | 78824 | 9.71 | |

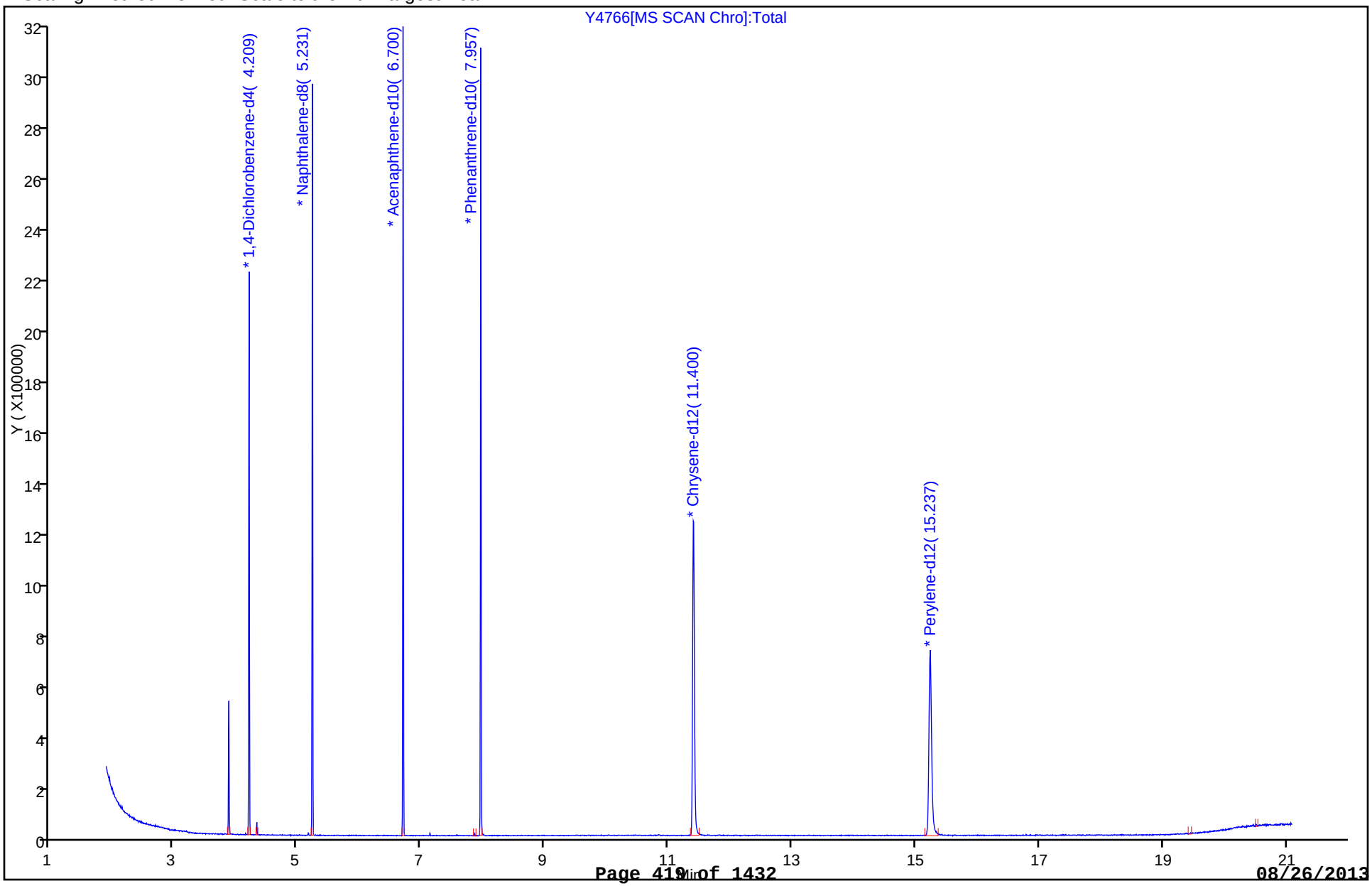
Report Date: 05-Jun-2013 08:49:03 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 20:03:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 17 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-179033/3 | Y5009.D |
| Level 2 | IC 280-179033/4 | Y5010.D |
| Level 3 | IC 280-179033/5 | Y5011.D |
| Level 4 | IC 280-179033/6 | Y5012.D |
| Level 5 | ICIS 280-179033/2 | Y5008.D |
| Level 6 | IC 280-179033/7 | Y5013.D |
| Level 7 | IC 280-179033/8 | Y5014.D |
| Level 8 | IC 280-179033/9 | Y5015.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.7775 0.6520 | 0.6876 0.6239 | 0.6802 0.6261 | 0.6522 | 0.6460 | Ave | | 0.6682 | | | | 7.4 | | 15.0 | | | |
| N-Nitrosodimethylamine | 0.9738 0.9719 | 1.0036 0.9627 | 0.9971 0.9512 | 0.9748 | 0.9863 | Ave | | 0.9777 | | | | 1.8 | | 15.0 | | | |
| Pyridine | 1.7401 1.6680 | 1.6295 1.6474 | 1.6687 1.6272 | 1.6596 | 1.6630 | Ave | | 1.6629 | | | | 2.1 | | 15.0 | | | |
| Phenol | 1.9372 1.7973 | 2.0052 1.7570 | 1.9790 1.7130 | 1.8521 | 1.8375 | Ave | | 1.8598 | | | | 5.7 | | 15.0 | | | |
| Aniline | 2.3512 2.2728 | 2.3862 2.2140 | 2.3810 2.2105 | 2.3227 | 2.3587 | Ave | | 2.3121 | | | | 3.1 | | 15.0 | | | |
| Bis(2-chloroethyl)ether | 1.6250 1.3920 | 1.5553 1.3269 | 1.6064 1.3025 | 1.5045 | 1.4015 | Ave | | 1.4643 | | | | 8.6 | | 15.0 | | | |
| 2-Chlorophenol | 1.4722 1.4341 | 1.5272 1.4020 | 1.5093 1.3908 | 1.4818 | 1.4618 | Ave | | 1.4599 | | | | 3.3 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.6617 1.5474 | 1.6641 1.4925 | 1.6592 1.4595 | 1.6343 | 1.5778 | Ave | | 1.5871 | | | | 5.1 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.6884 1.5489 | 1.7030 1.5187 | 1.7052 1.4754 | 1.6387 | 1.5999 | Ave | | 1.6098 | | | | 5.5 | | 15.0 | | | |
| Benzyl alcohol | 0.9936 0.9603 | 0.9728 0.9471 | 1.0014 0.9368 | 0.9907 | 0.9741 | Ave | | 0.9721 | | | | 2.4 | | 15.0 | | | |
| 1,2-Dichlorobenzene | 1.5627 1.4861 | 1.6197 1.4509 | 1.6188 1.4369 | 1.5674 | 1.5240 | Ave | | 1.5333 | | | | 4.6 | | 15.0 | | | |
| 2-Methylphenol | 1.3857 1.3391 | 1.4633 1.3126 | 1.4357 1.2965 | 1.3932 | 1.3744 | Ave | | 1.3751 | | | | 4.2 | | 15.0 | | | |
| 2,2'-oxybis[1-chloropropane] | 1.8490 1.7290 | 1.8460 1.7023 | 1.8551 1.6751 | 1.8104 | 1.7694 | Ave | | 1.7795 | | | | 4.0 | | 15.0 | | | |
| 3 & 4 Methylphenol | 1.4669 1.3789 | 1.4981 1.3421 | 1.5062 1.3039 | 1.4601 | 1.4189 | Ave | | 1.4219 | | | | 5.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 4-Methylphenol | 1.4669<br>1.3789 | 1.4981<br>1.3421 | 1.5062<br>1.3039 | 1.4601 | 1.4189 | Ave | | 1.4219 | | | | 5.2 | | 15.0 | | | |
| N-Nitrosodi-n-propylamine | 1.0607<br>1.0220 | 1.0947<br>0.9903 | 1.0882<br>0.9760 | 1.0555 | 1.0315 | Ave | | 1.0399 | | | 0.0500 | 4.1 | | 15.0 | | | |
| Acetophenone | 2.0479<br>1.9162 | 2.0716<br>1.8585 | 2.0738<br>1.8199 | 2.0081 | 1.9486 | Ave | | 1.9681 | | | | 5.0 | | 15.0 | | | |
| Hexachloroethane | 0.6705<br>0.6316 | 0.6582<br>0.6167 | 0.6648<br>0.6059 | 0.6577 | 0.6427 | Ave | | 0.6435 | | | | 3.7 | | 15.0 | | | |
| Nitrobenzene | 0.4083<br>0.3937 | 0.4113<br>0.3791 | 0.4102<br>0.3708 | 0.4065 | 0.3939 | Ave | | 0.3967 | | | | 3.8 | | 15.0 | | | |
| Isophorone | 0.6902<br>0.6886 | 0.7325<br>0.6669 | 0.7251<br>0.6540 | 0.7185 | 0.6958 | Ave | | 0.6965 | | | | 4.0 | | 15.0 | | | |
| 2-Nitrophenol | 0.1832<br>0.1890 | 0.1911<br>0.1811 | 0.1903<br>0.1756 | 0.1974 | 0.1915 | Ave | | 0.1874 | | | | 3.7 | | 15.0 | | | |
| 2,4-Dimethylphenol | 0.3688<br>0.3469 | 0.3775<br>0.3310 | 0.3791<br>0.3204 | 0.3663 | 0.3555 | Ave | | 0.3557 | | | | 6.0 | | 15.0 | | | |
| Benzoic acid | 0.1416<br>0.3006 | 0.2023<br>0.2872 | 0.2250<br>0.2889 | 0.2643 | 0.2722 | Lin2 | -1.224 | 0.2823 | | | | | | | 0.9950 | | 0.9900 |
| Bis(2-chloroethoxy)methane | 0.4570<br>0.4351 | 0.4595<br>0.4145 | 0.4626<br>0.4053 | 0.4499 | 0.4353 | Ave | | 0.4399 | | | | 4.8 | | 15.0 | | | |
| 2,4-Dichlorophenol | 0.3002<br>0.3088 | 0.3160<br>0.3011 | 0.3261<br>0.2921 | 0.3186 | 0.3167 | Ave | | 0.3100 | | | | 3.7 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.3546<br>0.3225 | 0.3385<br>0.3102 | 0.3448<br>0.3040 | 0.3370 | 0.3290 | Ave | | 0.3301 | | | | 5.2 | | 15.0 | | | |
| Naphthalene | 1.1204<br>0.9847 | 1.1260<br>0.9358 | 1.0991<br>0.8811 | 1.0754 | 1.0200 | Ave | | 1.0303 | | | | 8.8 | | 15.0 | | | |
| 4-Chloroaniline | 0.4936<br>0.4710 | 0.5051<br>0.4595 | 0.5083<br>0.4465 | 0.4906 | 0.4806 | Ave | | 0.4819 | | | | 4.5 | | 15.0 | | | |
| Hexachlorobutadiene | 0.2129<br>0.1991 | 0.2127<br>0.1900 | 0.2149<br>0.1848 | 0.2083 | 0.2000 | Ave | | 0.2028 | | | | 5.5 | | 15.0 | | | |
| Caprolactam | 0.1438<br>0.1613 | 0.1478<br>0.1588 | 0.1486<br>0.1575 | 0.1529 | 0.1589 | Ave | | 0.1537 | | | | 4.2 | | 15.0 | | | |
| 4-Chloro-3-methylphenol | 0.3068<br>0.3117 | 0.3242<br>0.2977 | 0.3213<br>0.2911 | 0.3194 | 0.3093 | Ave | | 0.3102 | | | | 3.7 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.7091<br>0.6563 | 0.7189<br>0.6227 | 0.7170<br>0.6007 | 0.6956 | 0.6754 | Ave | | 0.6744 | | | | 6.6 | | 15.0 | | | |
| 1-Methylnaphthalene | 0.6697<br>0.6170 | 0.6753<br>0.5836 | 0.6662<br>0.5611 | 0.6446 | 0.6258 | Ave | | 0.6304 | | | | 6.6 | | 15.0 | | | |
| Hexachlorocyclopentadiene | 0.2522<br>0.3845 | 0.2786<br>0.3841 | 0.3167<br>0.3834 | 0.3609 | 0.3761 | Ave | | 0.3421 | | | 0.0500 | 15.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 0.3422<br>0.3159 | 0.3422<br>0.3031 | 0.3450<br>0.2935 | 0.3303 | 0.3225 | Ave | | 0.3243 | | | | 5.9 | | 15.0 | | | |
| 2,4,6-Trichlorophenol | 0.3416<br>0.3723 | 0.3616<br>0.3629 | 0.3841<br>0.3506 | 0.3888 | 0.3790 | Ave | | 0.3676 | | | | 4.5 | | 15.0 | | | |
| 2,4,5-Trichlorophenol | 0.3707<br>0.4023 | 0.4007<br>0.3912 | 0.4197<br>0.3866 | 0.4079 | 0.4158 | Ave | | 0.3994 | | | | 4.0 | | 15.0 | | | |
| 1,1'-Biphenyl | 1.4754<br>1.2970 | 1.4284<br>1.2314 | 1.4621<br>1.1913 | 1.3947 | 1.3395 | Ave | | 1.3525 | | | | 7.8 | | 15.0 | | | |
| 2-Chloronaphthalene | 1.2035<br>1.0676 | 1.1955<br>1.0291 | 1.1880<br>1.0076 | 1.1381 | 1.1002 | Ave | | 1.1162 | | | | 6.9 | | 15.0 | | | |
| 2-Nitroaniline | 0.3108<br>0.3368 | 0.3372<br>0.3305 | 0.3437<br>0.3331 | 0.3446 | 0.3420 | Ave | | 0.3348 | | | | 3.3 | | 15.0 | | | |
| Dimethyl phthalate | 1.2713<br>1.1740 | 1.2678<br>1.1432 | 1.2813<br>1.1373 | 1.2312 | 1.1984 | Ave | | 1.2131 | | | | 4.8 | | 15.0 | | | |
| 1,3-Dinitrobenzene | 0.1587<br>0.2096 | 0.1887<br>0.2083 | 0.2005<br>0.2134 | 0.2102 | 0.2149 | Ave | | 0.2005 | | | | 9.4 | | 15.0 | | | |
| 2,6-Dinitrotoluene | 0.2789<br>0.2859 | 0.2793<br>0.2776 | 0.2905<br>0.2763 | 0.2876 | 0.2841 | Ave | | 0.2825 | | | | 1.8 | | 15.0 | | | |
| Acenaphthylene | 1.8102<br>1.6688 | 1.8149<br>1.5707 | 1.8512<br>1.5357 | 1.7833 | 1.7264 | Ave | | 1.7202 | | | | 6.9 | | 15.0 | | | |
| 3-Nitroaniline | 0.3311<br>0.3574 | 0.3582<br>0.3514 | 0.3734<br>0.3567 | 0.3656 | 0.3627 | Ave | | 0.3571 | | | | 3.5 | | 15.0 | | | |
| Acenaphthene | 1.1303<br>1.0152 | 1.1445<br>0.9724 | 1.1476<br>0.9457 | 1.0790 | 1.0403 | Ave | | 1.0594 | | | | 7.4 | | 15.0 | | | |
| 2,4-Dinitrophenol | 0.0281<br>0.1802 | 0.0573<br>0.1876 | 0.0983<br>0.1909 | 0.1538 | 0.1705 | Lin1 | -1.968 | 0.1889 | | | 0.0500 | | | | 0.9940 | | 0.9900 |
| 4-Nitrophenol | 0.1661<br>0.1891 | 0.1805<br>0.1830 | 0.1914<br>0.1845 | 0.1936 | 0.1901 | Ave | | 0.1848 | | | 0.0500 | 4.7 | | 15.0 | | | |
| 2,4-Dinitrotoluene | 0.3347<br>0.3755 | 0.3584<br>0.3660 | 0.3865<br>0.3664 | 0.3838 | 0.3776 | Ave | | 0.3686 | | | | 4.5 | | 15.0 | | | |
| Dibenzofuran | 1.6343<br>1.4373 | 1.6401<br>1.3617 | 1.6263<br>1.3286 | 1.5275 | 1.4933 | Ave | | 1.5061 | | | | 8.2 | | 15.0 | | | |
| 2,3,4,6-Tetrachlorophenol | 0.2878<br>0.3346 | 0.3053<br>0.3269 | 0.3400<br>0.3242 | 0.3416 | 0.3351 | Ave | | 0.3244 | | | | 5.8 | | 15.0 | | | |
| Diethyl phthalate | 1.2999<br>1.1509 | 1.2741<br>1.1142 | 1.2865<br>1.0947 | 1.2149 | 1.1753 | Ave | | 1.2013 | | | | 6.6 | | 15.0 | | | |
| 4-Chlorophenyl phenyl ether | 0.6373<br>0.5881 | 0.6457<br>0.5705 | 0.6492<br>0.5616 | 0.6185 | 0.5960 | Ave | | 0.6084 | | | | 5.6 | | 15.0 | | | |
| Fluorene | 1.3333<br>1.1889 | 1.3031<br>1.1453 | 1.3252<br>1.1283 | 1.2713 | 1.2312 | Ave | | 1.2408 | | | | 6.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 4-Nitroaniline | 0.3262<br>0.3382 | 0.3354<br>0.3249 | 0.3655<br>0.3179 | 0.3522 | 0.3479 | Ave | | 0.3385 | | | | 4.7 | | 15.0 | | | |
| 4,6-Dinitro-2-methylphenol | 0.0743<br>0.1414 | 0.1061<br>0.1389 | 0.1276<br>0.1321 | 0.1378 | 0.1411 | Lin2 | -0.545 | 0.1403 | | | | | | | 0.9990 | | 0.9900 |
| N-Nitrosodiphenylamine | 0.5794<br>0.5471 | 0.5831<br>0.5309 | 0.5801<br>0.5094 | 0.5668 | 0.5564 | Ave | | 0.5566 | | | | 4.7 | | 15.0 | | | |
| 1,2-Diphenylhydrazine | 1.3409<br>1.2953 | 1.3804<br>1.2411 | 1.4207<br>1.2253 | 1.3665 | 1.3051 | Ave | | 1.3219 | | | | 5.1 | | 15.0 | | | |
| 4-Bromophenyl phenyl ether | 0.2308<br>0.2354 | 0.2334<br>0.2303 | 0.2441<br>0.2236 | 0.2388 | 0.2321 | Ave | | 0.2336 | | | | 2.6 | | 15.0 | | | |
| Hexachlorobenzene | 0.2776<br>0.2832 | 0.2893<br>0.2772 | 0.2923<br>0.2685 | 0.2875 | 0.2841 | Ave | | 0.2825 | | | | 2.7 | | 15.0 | | | |
| Atrazine | 0.1615<br>0.1634 | 0.1753<br>0.1564 | 0.1761<br>0.1491 | 0.1723 | 0.1695 | Ave | | 0.1655 | | | | 5.8 | | 15.0 | | | |
| Pentachlorophenol | 0.0871<br>0.1715 | 0.1255<br>0.1680 | 0.1481<br>0.1623 | 0.1650 | 0.1684 | Lin2 | -0.684 | 0.1688 | | | | | | | 0.9990 | | 0.9900 |
| Phenanthrene | 1.1344<br>0.9970 | 1.1116<br>0.9530 | 1.1152<br>0.8980 | 1.0638 | 1.0221 | Ave | | 1.0369 | | | | 8.2 | | 15.0 | | | |
| Anthracene | 1.1263<br>1.0312 | 1.1052<br>0.9796 | 1.1454<br>0.9351 | 1.0978 | 1.0561 | Ave | | 1.0596 | | | | 7.0 | | 15.0 | | | |
| Carbazole | 1.0575<br>0.9854 | 1.0709<br>0.9419 | 1.0882<br>0.8840 | 1.0485 | 1.0135 | Ave | | 1.0112 | | | | 7.0 | | 15.0 | | | |
| Di-n-butyl phthalate | 1.1610<br>1.1668 | 1.2081<br>1.1128 | 1.2623<br>1.0605 | 1.2275 | 1.1923 | Ave | | 1.1739 | | | | 5.5 | | 15.0 | | | |
| Fluoranthene | 1.1500<br>1.1349 | 1.1744<br>1.0930 | 1.1994<br>1.0491 | 1.1778 | 1.1432 | Ave | | 1.1402 | | | | 4.3 | | 15.0 | | | |
| Benzidine | 0.4918<br>0.5860 | 0.5728<br>0.5591 | 0.6339<br>0.5202 | 0.6421 | 0.6255 | Ave | | 0.5789 | | | | 9.4 | | 15.0 | | | |
| Pyrene | 1.0585<br>1.0128 | 1.0634<br>0.9873 | 1.0935<br>0.9602 | 1.0700 | 1.0503 | Ave | | 1.0370 | | | | 4.4 | | 15.0 | | | |
| Famphur | 0.3347<br>0.3647 | 0.3537<br>0.3419 | 0.3824<br>0.3281 | 0.3905 | 0.3892 | Ave | | 0.3607 | | | | 6.9 | | 15.0 | | | |
| Butyl benzyl phthalate | 0.3890<br>0.4711 | 0.4395<br>0.4671 | 0.4573<br>0.4596 | 0.4714 | 0.4777 | Ave | | 0.4541 | | | | 6.3 | | 15.0 | | | |
| Bis(2-ethylhexyl) phthalate | 0.4935<br>0.6097 | 0.5355<br>0.6055 | 0.5771<br>0.5907 | 0.6045 | 0.6279 | Ave | | 0.5806 | | | | 7.7 | | 15.0 | | | |
| 3,3'-Dichlorobenzidine | +++++<br>0.4340 | 0.3860<br>0.4270 | 0.4139<br>0.4129 | 0.4343 | 0.4401 | Ave | | 0.4212 | | | | 4.4 | | 15.0 | | | |
| Benzo[a]anthracene | 0.9626<br>0.9895 | 1.0039<br>0.9757 | 1.0093<br>0.9501 | 0.9930 | 0.9922 | Ave | | 0.9845 | | | | 2.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Chrysene | 0.9453<br>0.9283 | 0.9509<br>0.9224 | 0.9533<br>0.8967 | 0.9519 | 0.9378 | Ave | | 0.9358 | | | | 2.1 | | 15.0 | | | |
| Di-n-octyl phthalate | 0.6291<br>1.0456 | 0.7570<br>1.0560 | 0.8531<br>1.0479 | 0.9651 | 1.0535 | Lin2 | -1.793 | 1.0273 | | | | | | | 0.9960 | | 0.9900 |
| Benzo[b]fluoranthene | 0.9058<br>1.0536 | 0.9461<br>1.0646 | 1.0020<br>1.0302 | 1.0031 | 1.0252 | Ave | | 1.0038 | | | | 5.4 | | 15.0 | | | |
| Benzo[k]fluoranthene | 1.0014<br>1.1447 | 1.0870<br>1.1167 | 1.1353<br>1.1114 | 1.1685 | 1.1319 | Ave | | 1.1121 | | | | 4.6 | | 15.0 | | | |
| Benzo[a]pyrene | 0.9016<br>1.0945 | 0.9558<br>1.0834 | 1.0291<br>1.0591 | 1.0784 | 1.0700 | Ave | | 1.0340 | | | | 6.7 | | 15.0 | | | |
| Indeno[1,2,3-cd]pyrene | 0.6915<br>0.9285 | 0.7572<br>0.9319 | 0.7936<br>0.9213 | 0.8802 | 0.8990 | Ave | | 0.8504 | | | | 11.0 | | 15.0 | | | |
| Dibenz(a,h)anthracene | 0.7372<br>1.0287 | 0.8289<br>1.0350 | 0.8859<br>1.0078 | 0.9306 | 0.9819 | Ave | | 0.9295 | | | | 11.0 | | 15.0 | | | |
| Benzo[g,h,i]perylene | 0.9157<br>1.0650 | 0.9805<br>1.0677 | 0.9792<br>1.0362 | 1.0380 | 1.0421 | Ave | | 1.0156 | | | | 5.2 | | 15.0 | | | |
| 2-Fluorophenol (Surr) | 1.4966<br>1.4373 | 1.5017<br>1.4059 | 1.4828<br>1.3913 | 1.4717 | 1.4651 | Ave | | 1.4566 | | | | 2.8 | | 15.0 | | | |
| Phenol-d5 (Surr) | 1.9117<br>1.7444 | 1.8749<br>1.6897 | 1.8524<br>1.6671 | 1.8027 | 1.7895 | Ave | | 1.7915 | | | | 4.9 | | 15.0 | | | |
| Nitrobenzene-d5 (Surr) | 0.3995<br>0.3983 | 0.4081<br>0.3843 | 0.4014<br>0.3784 | 0.4056 | 0.3946 | Ave | | 0.3963 | | | | 2.6 | | 15.0 | | | |
| 2-Fluorobiphenyl | 1.3975<br>1.2312 | 1.3758<br>1.1779 | 1.3823<br>1.1519 | 1.3167 | 1.2747 | Ave | | 1.2885 | | | | 7.4 | | 15.0 | | | |
| 2,4,6-Tribromophenol (Surr) | 0.2375<br>0.2935 | 0.2624<br>0.2943 | 0.2684<br>0.2964 | 0.2842 | 0.2877 | Ave | | 0.2781 | | | | 7.4 | | 15.0 | | | |
| Terphenyl-d14 (Surr) | 0.7927<br>0.8043 | 0.8160<br>0.7972 | 0.8286<br>0.7694 | 0.8273 | 0.8210 | Ave | | 0.8071 | | | | 2.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-179033/3 | Y5009.D |
| Level 2 | IC 280-179033/4 | Y5010.D |
| Level 3 | IC 280-179033/5 | Y5011.D |
| Level 4 | IC 280-179033/6 | Y5012.D |
| Level 5 | ICIS 280-179033/2 | Y5008.D |
| Level 6 | IC 280-179033/7 | Y5013.D |
| Level 7 | IC 280-179033/8 | Y5014.D |
| Level 8 | IC 280-179033/9 | Y5015.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,4-Dioxane | DCB | Ave | 23188<br>564299 | 49905<br>715575 | 96895<br>875556 | 231970 | 397381 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| N-Nitrosodimethylamine | DCB | Ave | 29042<br>841120 | 72837<br>1104184 | 142042<br>1330173 | 346719 | 606660 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Pyridine | DCB | Ave | 51898<br>1443572 | 118257<br>1889512 | 237716<br>2275498 | 590267 | 1022908 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Phenol | DCB | Ave | 57777<br>1555445 | 145522<br>2015221 | 281920<br>2395513 | 658731 | 1130277 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Aniline | DCB | Ave | 70124<br>1967013 | 173173<br>2539359 | 339183<br>3091246 | 826142 | 1450875 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Bis(2-chloroethyl)ether | DCB | Ave | 48464<br>1204713 | 112872<br>1521867 | 228846<br>1821472 | 535129 | 862082 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Chlorophenol | DCB | Ave | 43907<br>1241171 | 110836<br>1608048 | 215015<br>1944890 | 527046 | 899148 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 49560<br>1339203 | 120768<br>1711818 | 236358<br>2041056 | 581265 | 970534 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 50357<br>1340488 | 123590<br>1741854 | 242915<br>2063287 | 582860 | 984099 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Benzyl alcohol | DCB | Ave | 29634<br>831129 | 70603<br>1086267 | 142656<br>1310107 | 352385 | 599173 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 46608<br>1286164 | 117548<br>1664077 | 230612<br>2009398 | 557484 | 937454 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Methylphenol | DCB | Ave | 41328<br>1158963 | 106196<br>1505503 | 204528<br>1813096 | 495523 | 845395 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,2'-oxybis[1-chloropropane] | DCB | Ave | 55145<br>1496347 | 133974<br>1952447 | 264265<br>2342561 | 643927 | 1088363 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 3 & 4 Methylphenol | DCB | Ave | 43750<br>1193358 | 108726<br>1539359 | 214564<br>1823361 | 519326 | 872768 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 4-Methylphenol | DCB | Ave | 43750<br>1193358 | 108726<br>1539359 | 214564<br>1823361 | 519326 | 872768 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| N-Nitrosodi-n-propylamine | DCB | Ave | 31635<br>884522 | 79445<br>1135804 | 155025<br>1364909 | 375431 | 634514 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Acetophenone | DCB | Ave | 61077<br>1658360 | 150345<br>2131660 | 295422<br>2545033 | 714231 | 1198618 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Hexachloroethane | DCB | Ave | 19999<br>546593 | 47767<br>707371 | 94699<br>847256 | 233929 | 395350 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Nitrobenzene | NPT | Ave | 46667<br>1293339 | 114279<br>1669949 | 223961<br>2002920 | 549083 | 927032 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Isophorone | NPT | Ave | 78889<br>2262046 | 203516<br>2937863 | 395889<br>3532293 | 970531 | 1637374 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Nitrophenol | NPT | Ave | 20942<br>620994 | 53109<br>797567 | 103911<br>948398 | 266605 | 450689 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,4-Dimethylphenol | NPT | Ave | 42154<br>1139456 | 104881<br>1458141 | 206956<br>1730460 | 494747 | 836448 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Benzoic acid | NPT | Lin2 | 32360<br>1974964 | 112427<br>2530152 | 245647<br>3121025 | 714014 | 1280888 | 8.00<br>240 | 20.0<br>320 | 40.0<br>400 | 100 | 160 |
| Bis(2-chloroethoxy)methane | NPT | Ave | 52227<br>1429338 | 127671<br>1825735 | 252559<br>2189186 | 607705 | 1024464 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,4-Dichlorophenol | NPT | Ave | 34308<br>1014540 | 87810<br>1326326 | 178019<br>1577869 | 430385 | 745335 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1,2,4-Trichlorobenzene | NPT | Ave | 40530<br>1059331 | 94058<br>1366578 | 188230<br>1641784 | 455243 | 774213 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Naphthalene | NPT | Ave | 128054<br>3234823 | 312851<br>4122321 | 600034<br>4759412 | 1452647 | 2400215 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 4-Chloroaniline | NPT | Ave | 56416<br>1547092 | 140329<br>2024180 | 277476<br>2411544 | 662705 | 1130922 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Hexachlorobutadiene | NPT | Ave | 24330<br>653904 | 59094<br>837206 | 117298<br>998389 | 281342 | 470675 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Caprolactam | NPT | Ave | 16437<br>529872 | 41065<br>699605 | 81118<br>850749 | 206597 | 374004 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 4-Chloro-3-methylphenol | NPT | Ave | 35069<br>1024005 | 90082<br>1311446 | 175403<br>1572228 | 431436 | 727886 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Methylnaphthalene | NPT | Ave | 81040<br>2155846 | 199739<br>2743206 | 391418<br>3244626 | 939618 | 1589240 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1-Methylnaphthalene | NPT | Ave | 76537<br>2026883 | 187635<br>2570948 | 363692<br>3030760 | 870735 | 1472583 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Hexachlorocyclopentadiene | ANT | Ave | 16806<br>755606 | 46023<br>1002517 | 101091<br>1210348 | 289961 | 520520 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1,2,4,5-Tetrachlorobenzene | NPT | Ave | 39110<br>1037826 | 95066<br>1335350 | 188325<br>1585225 | 446108 | 758873 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,4,6-Trichlorophenol | ANT | Ave | 22763<br>731787 | 59741<br>947234 | 122592<br>1106947 | 312430 | 524512 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 2,4,5-Trichlorophenol | ANT | Ave | 24704<br>790719 | 66201<br>1020959 | 133975<br>1220630 | 327788 | 575511 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1,1'-Biphenyl | ANT | Ave | 98312<br>2549087 | 235989<br>3213927 | 466694<br>3760788 | 1120658 | 1854006 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Chloronaphthalene | ANT | Ave | 80192<br>2098152 | 197503<br>2685940 | 379180<br>3181041 | 914473 | 1522798 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Nitroaniline | ANT | Ave | 20712<br>661853 | 55703<br>862615 | 109698<br>1051682 | 276916 | 473340 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Dimethyl phthalate | ANT | Ave | 84708<br>2307411 | 209450<br>2983777 | 408961<br>3590310 | 989308 | 1658675 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 1,3-Dinitrobenzene | ANT | Ave | 10575<br>411891 | 31177<br>543738 | 63996<br>673670 | 168893 | 297406 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,6-Dinitrotoluene | ANT | Ave | 18582<br>561843 | 46151<br>724427 | 92732<br>872182 | 231078 | 393193 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Acenaphthylene | ANT | Ave | 120619<br>3279847 | 299839<br>4099484 | 590874<br>4848210 | 1432927 | 2389506 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 3-Nitroaniline | ANT | Ave | 22061<br>702365 | 59186<br>917073 | 119177<br>1126193 | 293762 | 501969 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Acenaphthene | ANT | Ave | 75317<br>1995315 | 189075<br>2538038 | 366308<br>2985582 | 867001 | 1439848 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,4-Dinitrophenol | ANT | Lin1 | 3743<br>708402 | 18946<br>979082 | 62751<br>1205610 | 247093 | 471993 | 8.00<br>240 | 20.0<br>320 | 40.0<br>400 | 100 | 160 |
| 4-Nitrophenol | ANT | Ave | 22139<br>743399 | 59639<br>955442 | 122183<br>1165072 | 311188 | 526230 | 8.00<br>240 | 20.0<br>320 | 40.0<br>400 | 100 | 160 |
| 2,4-Dinitrotoluene | ANT | Ave | 22301<br>737969 | 59217<br>955175 | 123356<br>1156839 | 308377 | 522555 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Dibenzofuran | ANT | Ave | 108899<br>2824722 | 270966<br>3554072 | 519105<br>4194166 | 1227370 | 2066795 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,3,4,6-Tetrachlorophenol | ANT | Ave | 19176<br>657637 | 50438<br>853090 | 108534<br>1023595 | 274484 | 463815 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Diethyl phthalate | ANT | Ave | 86615<br>2261950 | 210498<br>2908077 | 410622<br>3455751 | 976241 | 1626619 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 4-Chlorophenyl phenyl ether | ANT | Ave | 42463<br>1155818 | 106679<br>1488940 | 207228<br>1772928 | 496979 | 824942 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Fluorene | ANT | Ave | 88844<br>2336672 | 215292<br>2989231 | 422981<br>3561882 | 1021490 | 1704077 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 4-Nitroaniline | ANT | Ave | 21736<br>664675 | 55404<br>847880 | 116654<br>1003495 | 282984 | 481524 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 4,6-Dinitro-2-methylphenol | PHN | Lin2 | 17010<br>929779 | 59978<br>1207796 | 139433<br>1425778 | 375384 | 659244 | 8.00<br>240 | 20.0<br>320 | 40.0<br>400 | 100 | 160 |
| N-Nitrosodiphenylamine | PHN | Ave | 66289<br>1798262 | 164810<br>2308303 | 316904<br>2749940 | 771743 | 1299530 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,2-Diphenylhydrazine | ANT | Ave | 90330<br>2573596 | 230551<br>3274708 | 458441<br>3910644 | 1110060 | 1826143 | 4.04<br>121 | 10.1<br>162 | 20.2<br>202 | 50.5 | 80.9 |
| 4-Bromophenyl phenyl ether | PHN | Ave | 26408<br>773673 | 65962<br>1001322 | 133380<br>1207216 | 325212 | 542076 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Hexachlorobenzene | PHN | Ave | 31764<br>930888 | 81764<br>1205058 | 159714<br>1449578 | 391516 | 663672 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Atrazine | PHN | Ave | 18481<br>537217 | 49556<br>679813 | 96187<br>805154 | 234630 | 395912 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Pentachlorophenol | PHN | Lin2 | 19935<br>1127300 | 70957<br>1460855 | 161776<br>1751876 | 449353 | 786600 | 8.00<br>240 | 20.0<br>320 | 40.0<br>400 | 100 | 160 |
| Phenanthrene | PHN | Ave | 129787<br>3277310 | 314189<br>4143550 | 609259<br>4847624 | 1448571 | 2387262 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Anthracene | PHN | Ave | 128860<br>3389613 | 312368<br>4259462 | 625766<br>5047753 | 1494868 | 2466812 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Carbazole | PHN | Ave | 120995<br>3238992 | 302681<br>4095252 | 594520<br>4772379 | 1427778 | 2367242 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Di-n-butyl phthalate | PHN | Ave | 132835<br>3835541 | 341479<br>4838184 | 689642<br>5725142 | 1671442 | 2784892 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Fluoranthene | PHN | Ave | 131576<br>3730454 | 331933<br>4752445 | 655272<br>5663361 | 1603771 | 2670059 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Benzidine | CRY | Ave | 64618<br>2259040 | 187743<br>2819098 | 404008<br>3248438 | 1016364 | 1680753 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Pyrene | CRY | Ave | 139091<br>3904348 | 348562<br>4978023 | 696978<br>5996215 | 1693682 | 2822079 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Famphur | CRY | Ave | 43983<br>1405962 | 115932<br>1723931 | 243745<br>2048906 | 618073 | 1045757 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Butyl benzyl phthalate | CRY | Ave | 51109<br>1815962 | 144056<br>2355146 | 291480<br>2870056 | 746152 | 1283619 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Bis(2-ethylhexyl) phthalate | CRY | Ave | 64845<br>2350408 | 175520<br>3052779 | 367837<br>3689038 | 956865 | 1687105 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 3,3'-Dichlorobenzidine | CRY | Ave | +++++<br>1673035 | 126531<br>2152744 | 263831<br>2578284 | 687431 | 1182454 | +++++<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Benzo[a]anthracene | CRY | Ave | 126483<br>3814736 | 329057<br>4919357 | 643310<br>5933361 | 1571796 | 2665889 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Chrysene | CRY | Ave | 124206<br>3578845 | 311682<br>4650399 | 607607<br>5600132 | 1506728 | 2519845 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Di-n-octyl phthalate | CRY | Lin2 | 82667<br>4030924 | 248137<br>5324142 | 543728<br>6544346 | 1527504 | 2830612 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Benzo[b]fluoranthene | PRY | Ave | 115653<br>3924811 | 299192<br>5215827 | 614647<br>6286536 | 1534602 | 2694863 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Benzo[k]fluoranthene | PRY | Ave | 127854<br>4264140 | 343748<br>5470736 | 696389<br>6781804 | 1787537 | 2975262 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 179033

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/17/2013 07:29 Calibration End Date: 06/17/2013 10:33 Calibration ID: 14482

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Benzo[a]pyrene | PRY | Ave | 115107<br>4077217 | 302266<br>5307628 | 631213<br>6462774 | 1649723 | 2812726 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Indeno[1,2,3-cd]pyrene | CRY | Ave | 90866<br>3579609 | 248198<br>4698412 | 505795<br>5753391 | 1393194 | 2415543 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Dibenz(a,h)anthracene | PRY | Ave | 94121<br>3832208 | 262135<br>5070619 | 543389<br>6149578 | 1423613 | 2581088 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Benzo[g,h,i]perylene | PRY | Ave | 116912<br>3967266 | 310091<br>5230732 | 600629<br>6323089 | 1587936 | 2739282 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Fluorophenol (Surr) | DCB | Ave | 44637<br>1243873 | 108983<br>1612574 | 211240<br>1945605 | 523445 | 901217 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Phenol-d5 (Surr) | DCB | Ave | 57016<br>1509701 | 136067<br>1937975 | 263884<br>2331275 | 641194 | 1100759 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Nitrobenzene-d5 (Surr) | NPT | Ave | 45660<br>1308406 | 113403<br>1692841 | 219118<br>2043669 | 547864 | 928673 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2-Fluorobiphenyl | ANT | Ave | 93119<br>2419668 | 227301<br>3074345 | 441216<br>3636354 | 1058020 | 1764276 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| 2,4,6-Tribromophenol (Surr) | ANT | Ave | 15826<br>576851 | 43355<br>768235 | 85681<br>935566 | 228327 | 398200 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |
| Terphenyl-d14 (Surr) | CRY | Ave | 104163<br>3100755 | 267479<br>4019385 | 528138<br>4804904 | 1309473 | 2206081 | 4.00<br>120 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 |

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5008.D
Lims ID: ICIS HSLA080 Client ID:
Inject. Date: 17-Jun-2013 07:29:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 5
Sample ID: ICIS HSLA080
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 2
Lims Batch ID: 179033 Lims Sample ID: 2
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:05 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:07:14

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.202 | 4.202 | 0.0 | 94 | 307554 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.231 | 0.0 | 99 | 1176600 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.694 | 6.694 | 0.0 | 90 | 692031 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.951 | 7.951 | 0.0 | 96 | 1167849 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.388 | 11.388 | 0.0 | 80 | 1343489 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.201 | 15.201 | 0.0 | 86 | 1314320 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.192 | 3.191 | 0.0 | 90 | 901217 | 80.5 | |
| $ 8 Phenol-d5 | 99 | 3.879 | 3.879 | 0.0 | 92 | 1100759 | 79.9 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.643 | 4.643 | 0.0 | 87 | 928673 | 79.7 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.106 | 6.111 | 0.0 | 99 | 1764276 | 79.1 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.363 | 7.369 | 0.0 | 90 | 398200 | 82.8 | |
| $ 13 Terphenyl-d14 | 244 | 9.520 | 9.519 | 0.0 | 97 | 2206081 | 81.4 | |
| 27 1,4-Dioxane | 88 | 2.040 | 2.040 | 0.0 | 93 | 397381 | 77.3 | |
| 28 N-Nitrosodimethylamine | 74 | 2.246 | 2.246 | 0.0 | 89 | 606660 | 80.7 | |
| 29 Pyridine | 79 | 2.293 | 2.293 | 0.0 | 98 | 1022908 | 80.0 | |
| 40 Phenol | 94 | 3.891 | 3.890 | 0.0 | 98 | 1130277 | 79.0 | |
| 43 Aniline | 93 | 3.944 | 3.943 | 0.0 | 99 | 1450875 | 81.6 | |
| 44 Alpha Methyl Styrene | 118 | 3.967 | 3.967 | 0.0 | 88 | 915727 | 80.0 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.973 | 3.973 | 0.0 | 96 | 862082 | 76.6 | |
| 47 n-Decane | 43 | 4.014 | 4.014 | 0.0 | 89 | 796954 | 80.3 | |
| 48 2-Chlorophenol | 128 | 4.038 | 4.037 | 0.0 | 96 | 899148 | 80.1 | |
| 49 1,3-Dichlorobenzene | 146 | 4.155 | 4.155 | 0.0 | 97 | 970534 | 79.5 | |
| 50 1,4-Dichlorobenzene | 146 | 4.214 | 4.214 | 0.0 | 94 | 984099 | 79.5 | |
| 51 Benzyl alcohol | 108 | 4.296 | 4.296 | 0.0 | 92 | 599173 | 80.2 | |
| 52 1,2-Dichlorobenzene | 146 | 4.338 | 4.337 | 0.0 | 96 | 937454 | 79.5 | |
| 54 2-Methylphenol | 108 | 4.367 | 4.366 | 0.0 | 94 | 845395 | 80.0 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.385 | 4.384 | 0.0 | 93 | 1088363 | 79.5 | |
| 56 Indene | 116 | 4.402 | 4.402 | 0.0 | 73 | 1486560 | 80.2 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.490 | 4.490 | 0.0 | 90 | 872768 | 79.8 | |
| 59 4-Methylphenol | 108 | 4.490 | 4.490 | 0.0 | 90 | 872768 | 79.8 | |
| 60 3 & 4 Methylphenol | 108 | 4.490 | 4.490 | 0.0 | 90 | 872768 | 79.8 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.496 | 4.496 | 0.0 | 85 | 634514 | 79.4 | |
| 63 Acetophenone | 105 | 4.514 | 4.513 | 0.0 | 99 | 1198618 | 79.2 | |
| 66 Hexachloroethane | 117 | 4.608 | 4.607 | 0.0 | 91 | 395350 | 79.9 | |
| 67 Nitrobenzene | 77 | 4.661 | 4.660 | 0.0 | 86 | 927032 | 79.4 | |
| 71 Isophorone | 82 | 4.837 | 4.836 | 0.0 | 97 | 1637374 | 79.9 | |
| 73 2,4-Dimethylphenol | 107 | 4.913 | 4.913 | 0.0 | 90 | 836448 | 80.0 | |
| 74 2-Nitrophenol | 139 | 4.913 | 4.913 | 0.0 | 95 | 450689 | 81.8 | |
| 77 Benzoic acid | 105 | 5.002 | 5.001 | 0.0 | 86 | 1280888 | 158.6 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.990 | 4.989 | 0.0 | 99 | 1024464 | 79.2 | |
| 79 3,5-Dimethylphenol | 107 | 5.025 | 5.024 | 0.0 | 91 | 890837 | 81.4 | |
| 82 2,4-Dichlorophenol | 162 | 5.101 | 5.101 | 0.0 | 93 | 745335 | 81.7 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.172 | 5.171 | 0.0 | 90 | 774213 | 79.7 | |
| 87 Naphthalene | 128 | 5.248 | 5.248 | 0.0 | 97 | 2400215 | 79.2 | |
| 88 4-Chloroaniline | 127 | 5.284 | 5.283 | 0.0 | 85 | 1130922 | 79.8 | |
| 91 Hexachlorobutadiene | 225 | 5.325 | 5.324 | 0.0 | 90 | 470675 | 78.9 | |
| 94 Caprolactam | 55 | 5.583 | 5.582 | 0.0 | 78 | 374004 | 82.7 | M |
| 97 4-Chloro-3-methylphenol | 107 | 5.665 | 5.665 | 0.0 | 93 | 727886 | 79.8 | |
| 101 2-Methylnaphthalene | 142 | 5.812 | 5.812 | 0.0 | 88 | 1589240 | 80.1 | |
| 103 1-Methylnaphthalene | 142 | 5.900 | 5.900 | 0.0 | 83 | 1472583 | 79.4 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.936 | 5.940 | 0.0 | 86 | 520520 | 88.0 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.953 | 5.953 | 0.0 | 93 | 758873 | 79.5 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.047 | 6.052 | 0.0 | 86 | 524512 | 82.5 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.059 | 6.064 | 0.0 | 95 | 890275 | 80.0 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.077 | 6.081 | 0.0 | 94 | 575511 | 83.3 | |
| 112 1,1'-Biphenyl | 154 | 6.194 | 6.199 | 0.0 | 95 | 1854006 | 79.2 | |
| 114 2-Chloronaphthalene | 162 | 6.229 | 6.234 | 0.0 | 96 | 1522798 | 78.9 | |
| 116 2-Nitroaniline | 65 | 6.318 | 6.323 | 0.0 | 84 | 473340 | 81.7 | |
| 119 Dimethyl phthalate | 163 | 6.435 | 6.440 | 0.0 | 98 | 1658675 | 79.0 | |
| 120 1,3-Dinitrobenzene | 168 | 6.494 | 6.499 | 0.0 | 88 | 297406 | 85.7 | |
| 121 2,6-Dinitrotoluene | 165 | 6.506 | 6.511 | 0.0 | 90 | 393193 | 80.4 | |
| 122 Acenaphthylene | 152 | 6.582 | 6.587 | 0.0 | 92 | 2389506 | 80.3 | |
| 123 3-Nitroaniline | 138 | 6.664 | 6.669 | 0.0 | 97 | 501969 | 81.3 | |
| 124 Acenaphthene | 153 | 6.723 | 6.728 | 0.0 | 94 | 1439848 | 78.6 | |
| 126 2,4-Dinitrophenol | 184 | 6.747 | 6.752 | 0.0 | 83 | 471993 | 154.8 | |
| 127 4-Nitrophenol | 109 | 6.788 | 6.793 | 0.0 | 87 | 526230 | 164.6 | |
| 130 2,4-Dinitrotoluene | 165 | 6.846 | 6.852 | 0.0 | 88 | 522555 | 81.9 | |
| 132 Dibenzofuran | 168 | 6.864 | 6.869 | 0.0 | 86 | 2066795 | 79.3 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.964 | 6.969 | 0.0 | 70 | 463815 | 82.6 | |
| 136 Hexadecane | 57 | 6.987 | 6.993 | 0.0 | 93 | 956733 | 78.9 | |
| 139 Diethyl phthalate | 149 | 7.017 | 7.022 | 0.0 | 97 | 1626619 | 78.3 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.134 | 7.140 | 0.0 | 90 | 824942 | 78.4 | |
| 143 Fluorene | 166 | 7.158 | 7.163 | 0.0 | 83 | 1704077 | 79.4 | |
| 146 4-Nitroaniline | 138 | 7.181 | 7.187 | 0.0 | 83 | 481524 | 82.2 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.193 | 7.192 | 0.0 | 88 | 659244 | 164.8 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.240 | 7.239 | 0.0 | 57 | 1299530 | 80.0 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.269 | 7.275 | 0.0 | 97 | 1826143 | 79.8 | |
| 152 Azobenzene | 77 | 7.269 | 7.275 | 0.0 | 98 | 1826143 | 79.0 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.363 | 7.369 | 0.0 | 90 | 398998 | 82.7 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.551 | 7.551 | 0.0 | 59 | 542076 | 79.5 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.622 | 7.621 | 0.0 | 89 | 663672 | 80.5 | |
| 167 Atrazine | 200 | 7.663 | 7.662 | 0.0 | 91 | 395912 | 82.0 | |
| 169 n-Octadecane | 85 | 7.751 | 7.751 | 0.0 | 96 | 481618 | 81.0 | |
| 171 Pentachlorophenol | 266 | 7.786 | 7.786 | 0.0 | 89 | 786600 | 163.7 | |
| 176 Phenanthrene | 178 | 7.975 | 7.974 | 0.0 | 97 | 2387262 | 78.9 | |
| 177 Anthracene | 178 | 8.016 | 8.015 | 0.0 | 97 | 2466812 | 79.7 | |
| 178 Carbazole | 167 | 8.151 | 8.150 | 0.0 | 82 | 2367242 | 80.2 | |
| 179 Alachlor | 188 | 8.215 | 8.215 | 0.0 | 98 | 343889 | 80.8 | |
| 181 Di-n-butyl phthalate | 149 | 8.374 | 8.373 | 0.0 | 100 | 2784892 | 81.3 | |
| 188 Fluoranthene | 202 | 9.091 | 9.090 | 0.0 | 98 | 2670059 | 80.2 | |
| 189 Benzidine | 184 | 9.232 | 9.231 | 0.0 | 99 | 1680753 | 86.4 | |
| 191 Pyrene | 202 | 9.373 | 9.372 | 0.0 | 97 | 2822079 | 81.0 | |
| 197 Famphur | 218 | 10.154 | 10.154 | 0.0 | 82 | 1045757 | 86.3 | |
| 198 Butyl benzyl phthalate | 149 | 10.231 | 10.230 | 0.0 | 96 | 1283619 | 84.2 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.324 | 11.323 | 0.0 | 96 | 1687105 | 86.5 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.324 | 11.323 | 0.0 | 63 | 1182454 | 83.6 | |
| 206 Benzo[a]anthracene | 228 | 11.359 | 11.358 | 0.0 | 98 | 2665889 | 80.6 | |
| 207 Chrysene | 228 | 11.447 | 11.446 | 0.0 | 93 | 2519845 | 80.2 | |
| 209 Di-n-octyl phthalate | 149 | 12.986 | 12.986 | 0.0 | 99 | 2830612 | 83.8 | |
| 211 Benzo[b]fluoranthene | 252 | 14.079 | 14.089 | 0.0 | 89 | 2694863 | 81.7 | |
| 212 Benzo[k]fluoranthene | 252 | 14.156 | 14.166 | 0.0 | 94 | 2975262 | 81.4 | |
| 214 Benzo[e]pyrene | 252 | 14.878 | 14.889 | 0.0 | 97 | 2424758 | 81.6 | |
| 215 Benzo[a]pyrene | 252 | 15.031 | 15.042 | 0.0 | 75 | 2812726 | 82.8 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.621 | 18.634 | 0.0 | 81 | 2581088 | 84.5 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.527 | 18.526 | 0.0 | 95 | 2415543 | 84.6 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.279 | 19.293 | 0.0 | 90 | 2739282 | 82.1 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 159.8 | |
| S 226 Total Cresols | 108 | | | | 0 | | 159.8 | |

QC Flag Legend

Review Flags
M - Manually Integrated

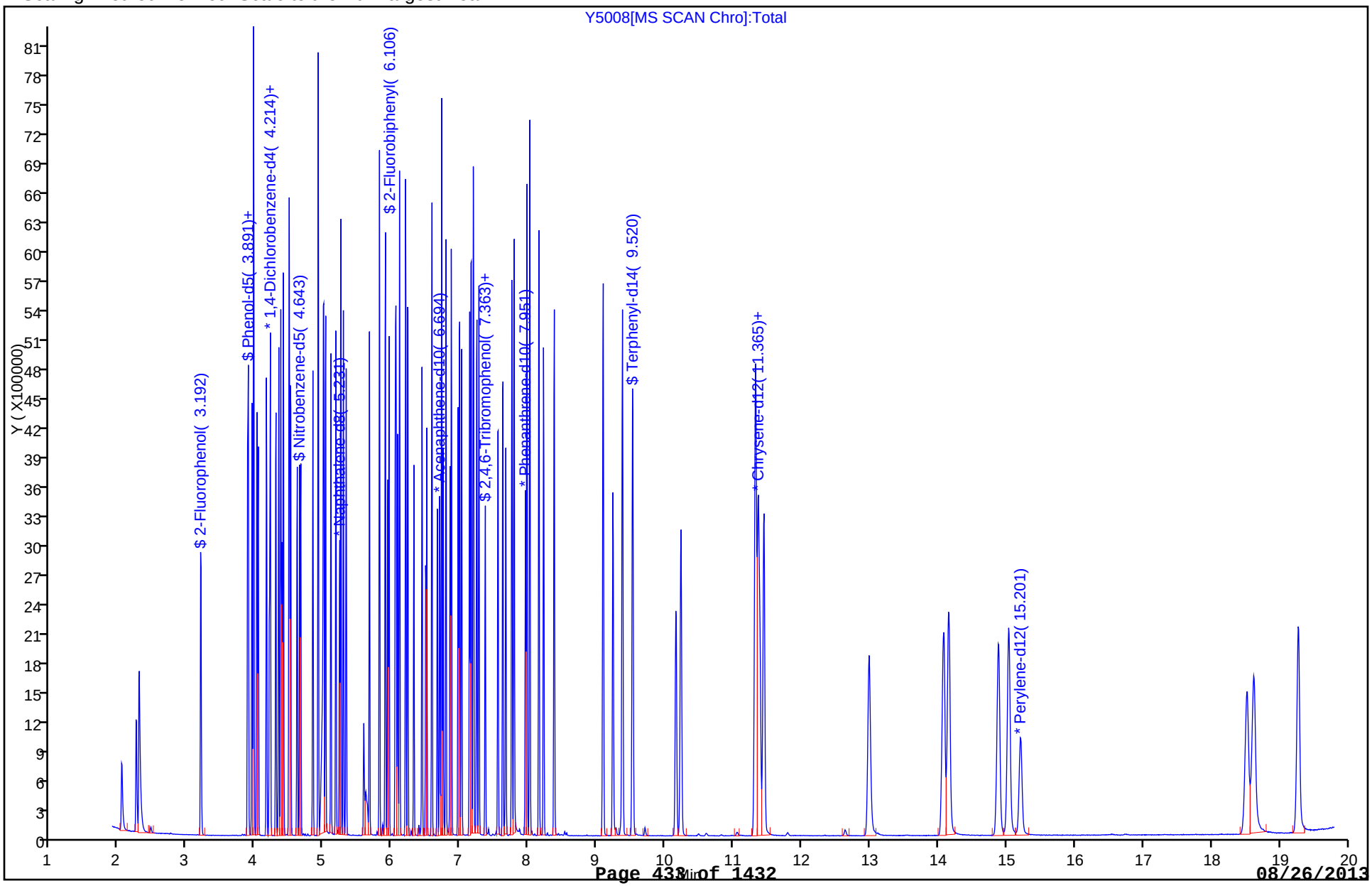
Report Date: 19-Jun-2013 10:52:05 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5008.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 07:29:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 2 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

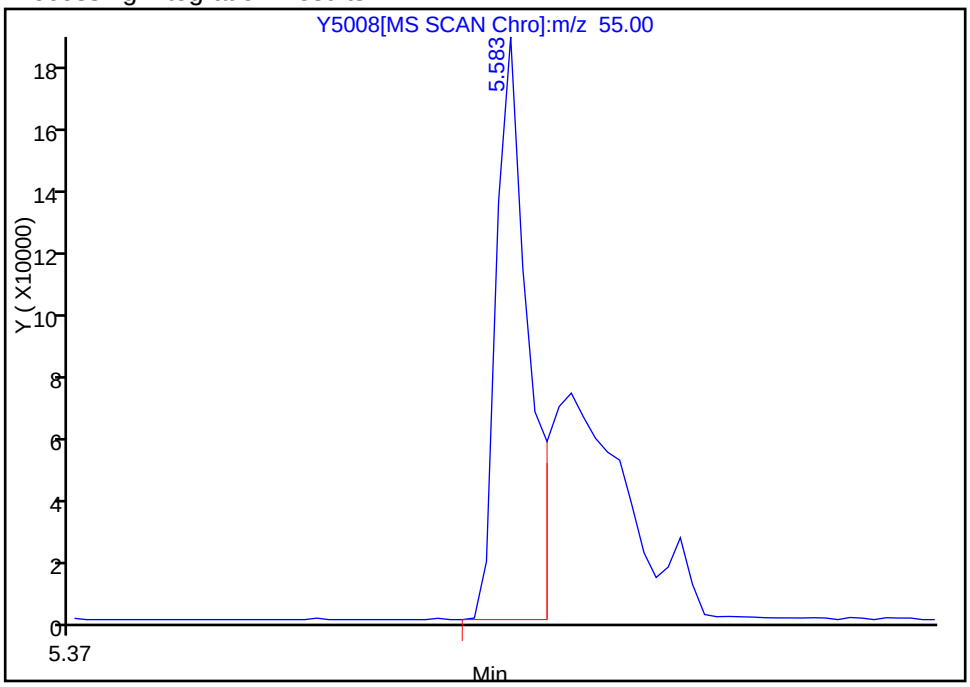
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5008.D | | |
| Injection Date: | 17-Jun-2013 07:29:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 2 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

94 Caprolactam, Signal: 1, m/z: 55.0 Type: quant, RT: 5.58

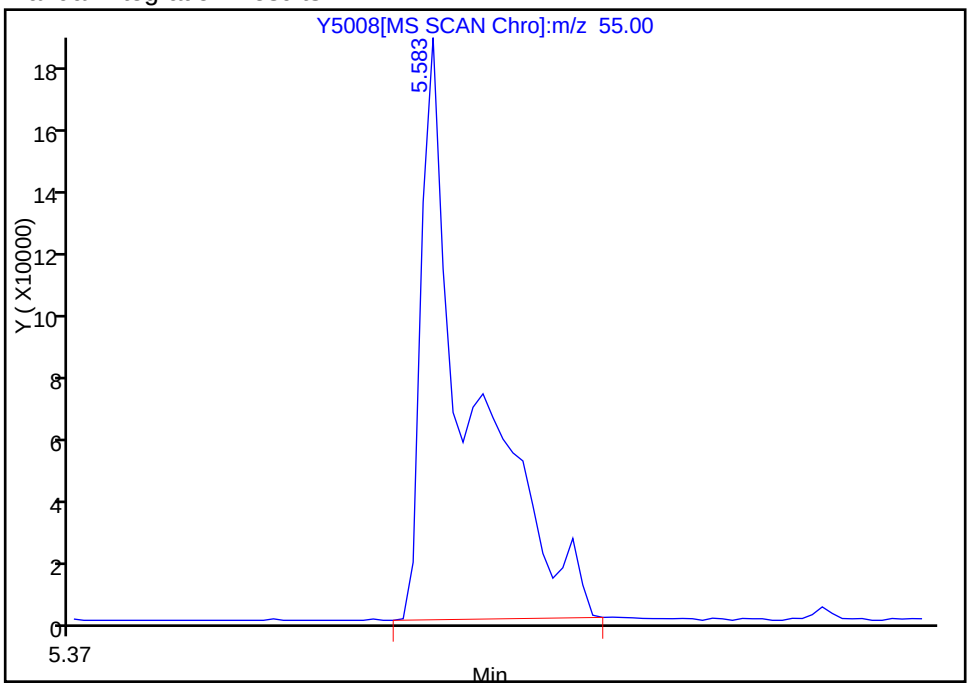
Processing Integration Results

RT: 5.58
Response: 202696
Amount: 80.000000




Manual Integration Results

RT: 5.58
Response: 374004
Amount: 82.717846




Reviewer: hoffmanm, 17-Jun-2013 11:07:14
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

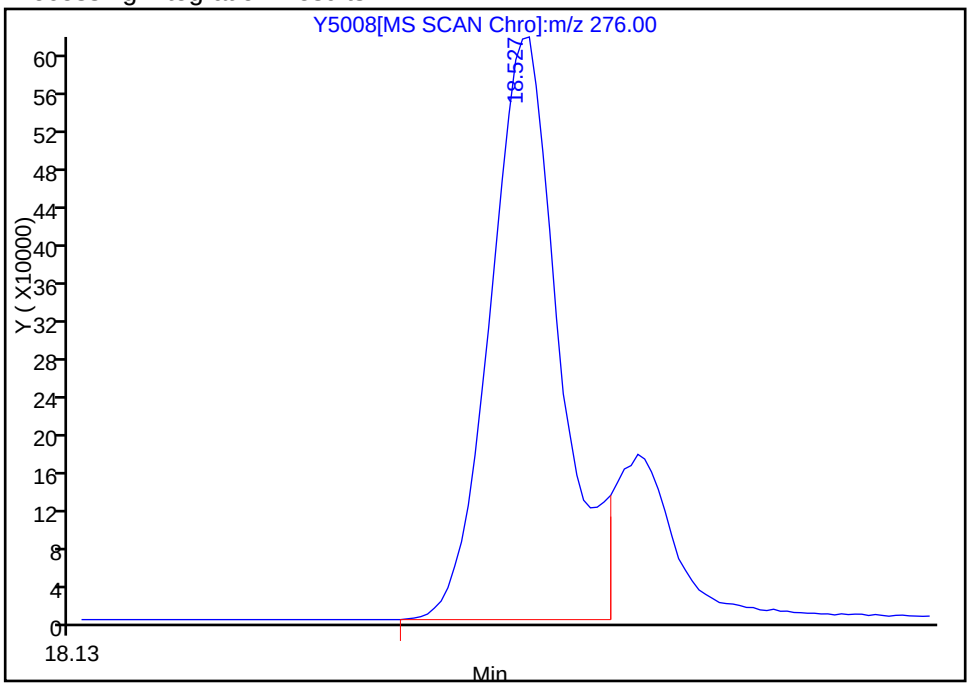
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5008.D | | |
| Injection Date: | 17-Jun-2013 07:29:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 2 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.53

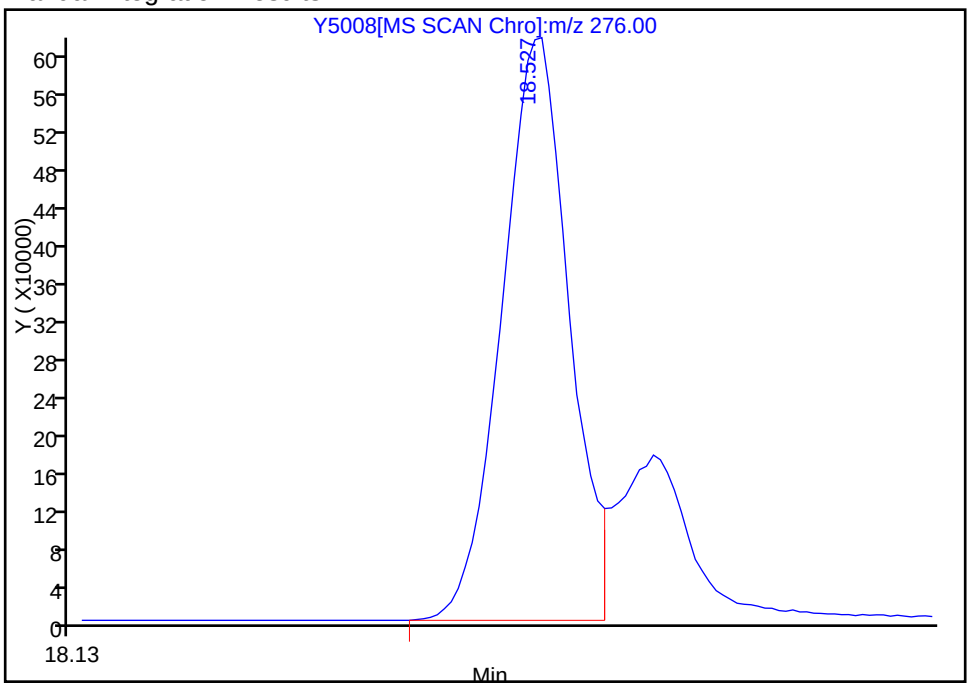
Processing Integration Results

RT: 18.53
Response: 2547023
Amount: 80.000000




Manual Integration Results

RT: 18.53
Response: 2415543
Amount: 84.570468




Reviewer: hoffmanm, 17-Jun-2013 11:07:14
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5009.D
Lims ID: IC HSLA004 Client ID:
Inject. Date: 17-Jun-2013 07:55:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: IC HSLA004
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 3
Lims Batch ID: 179033 Lims Sample ID: 3
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:07 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:45:49

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.203 | 4.202 | 0.001 | 94 | 298248 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.231 | 0.0 | 99 | 1142923 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.694 | 6.694 | 0.0 | 90 | 666334 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.951 | 7.951 | 0.0 | 96 | 1144132 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.382 | 11.388 | -0.006 | 80 | 1313992 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.201 | 15.201 | 0.0 | 84 | 1276743 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.198 | 3.191 | 0.006 | 83 | 44637 | 4.11 | |
| $ 8 Phenol-d5 | 99 | 3.879 | 3.879 | 0.0 | 91 | 57016 | 4.27 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.643 | 4.643 | 0.0 | 84 | 45660 | 4.03 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.106 | 6.111 | 0.0 | 98 | 93119 | 4.34 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.364 | 7.369 | 0.001 | 72 | 15826 | 3.42 | |
| $ 13 Terphenyl-d14 | 244 | 9.520 | 9.519 | 0.0 | 92 | 104163 | 3.93 | |
| 27 1,4-Dioxane | 88 | 2.040 | 2.040 | 0.0 | 86 | 23188 | 4.65 | |
| 28 N-Nitrosodimethylamine | 74 | 2.252 | 2.246 | 0.006 | 84 | 29042 | 3.98 | |
| 29 Pyridine | 79 | 2.305 | 2.293 | 0.012 | 95 | 51898 | 4.19 | |
| 40 Phenol | 94 | 3.891 | 3.890 | 0.0 | 98 | 57777 | 4.17 | |
| 43 Aniline | 93 | 3.944 | 3.943 | 0.0 | 98 | 70124 | 4.07 | |
| 44 Alpha Methyl Styrene | 118 | 3.968 | 3.967 | 0.001 | 89 | 46866 | 4.22 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.973 | 3.973 | 0.0 | 96 | 48464 | 4.44 | |
| 47 n-Decane | 43 | 4.015 | 4.014 | 0.001 | 89 | 40249 | 4.18 | |
| 48 2-Chlorophenol | 128 | 4.038 | 4.037 | 0.0 | 92 | 43907 | 4.03 | |
| 49 1,3-Dichlorobenzene | 146 | 4.156 | 4.155 | 0.001 | 95 | 49560 | 4.19 | |
| 50 1,4-Dichlorobenzene | 146 | 4.214 | 4.214 | 0.0 | 92 | 50357 | 4.20 | |
| 51 Benzyl alcohol | 108 | 4.291 | 4.296 | -0.005 | 90 | 29634 | 4.09 | |
| 52 1,2-Dichlorobenzene | 146 | 4.338 | 4.337 | 0.0 | 95 | 46608 | 4.08 | |
| 54 2-Methylphenol | 108 | 4.367 | 4.366 | 0.0 | 93 | 41328 | 4.03 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.385 | 4.384 | 0.0 | 90 | 55145 | 4.16 | |
| 56 Indene | 116 | 4.402 | 4.402 | 0.0 | 82 | 75929 | 4.22 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.485 | 4.490 | -0.005 | 97 | 43750 | 4.13 | |
| 59 4-Methylphenol | 108 | 4.485 | 4.490 | -0.005 | 97 | 43750 | 4.13 | |
| 60 3 & 4 Methylphenol | 108 | 4.485 | 4.490 | -0.005 | 97 | 43750 | 4.13 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.496 | 4.496 | 0.0 | 85 | 31635 | 4.08 | |
| 63 Acetophenone | 105 | 4.508 | 4.513 | -0.006 | 95 | 61077 | 4.16 | |
| 66 Hexachloroethane | 117 | 4.608 | 4.607 | 0.0 | 89 | 19999 | 4.17 | |
| 67 Nitrobenzene | 77 | 4.661 | 4.660 | 0.0 | 85 | 46667 | 4.12 | |
| 71 Isophorone | 82 | 4.837 | 4.836 | 0.0 | 97 | 78889 | 3.96 | |
| 73 2,4-Dimethylphenol | 107 | 4.913 | 4.913 | 0.0 | 90 | 42154 | 4.15 | |
| 74 2-Nitrophenol | 139 | 4.913 | 4.913 | 0.0 | 95 | 20942 | 3.91 | |
| 77 Benzoic acid | 105 | 4.949 | 5.001 | -0.053 | 49 | 32360 | 8.35 | M |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.990 | 4.989 | 0.0 | 96 | 52227 | 4.16 | |
| 79 3,5-Dimethylphenol | 107 | 5.019 | 5.024 | -0.006 | 94 | 42679 | 4.01 | |
| 82 2,4-Dichlorophenol | 162 | 5.101 | 5.101 | 0.0 | 92 | 34308 | 3.87 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.172 | 5.171 | 0.0 | 92 | 40530 | 4.30 | |
| 87 Naphthalene | 128 | 5.248 | 5.248 | 0.0 | 96 | 128054 | 4.35 | |
| 88 4-Chloroaniline | 127 | 5.284 | 5.283 | 0.0 | 84 | 56416 | 4.10 | |
| 91 Hexachlorobutadiene | 225 | 5.325 | 5.324 | 0.0 | 85 | 24330 | 4.20 | |
| 94 Caprolactam | 55 | 5.589 | 5.582 | 0.006 | 68 | 16437 | 3.74 | |
| 97 4-Chloro-3-methylphenol | 107 | 5.666 | 5.665 | 0.001 | 83 | 35069 | 3.96 | |
| 101 2-Methylnaphthalene | 142 | 5.812 | 5.812 | 0.0 | 88 | 81040 | 4.21 | |
| 103 1-Methylnaphthalene | 142 | 5.901 | 5.900 | 0.001 | 80 | 76537 | 4.25 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.936 | 5.940 | 0.0 | 88 | 16806 | 2.95 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.953 | 5.953 | 0.0 | 91 | 39110 | 4.22 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.047 | 6.052 | 0.0 | 85 | 22763 | 3.72 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.053 | 6.064 | -0.006 | 91 | 45717 | 4.27 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.083 | 6.081 | 0.006 | 93 | 24704 | 3.71 | |
| 112 1,1'-Biphenyl | 154 | 6.194 | 6.199 | 0.0 | 93 | 98312 | 4.36 | |
| 114 2-Chloronaphthalene | 162 | 6.230 | 6.234 | 0.001 | 95 | 80192 | 4.31 | |
| 116 2-Nitroaniline | 65 | 6.318 | 6.323 | 0.0 | 71 | 20712 | 3.71 | |
| 119 Dimethyl phthalate | 163 | 6.435 | 6.440 | 0.0 | 98 | 84708 | 4.19 | |
| 120 1,3-Dinitrobenzene | 168 | 6.488 | 6.499 | -0.006 | 77 | 10575 | 3.17 | |
| 121 2,6-Dinitrotoluene | 165 | 6.506 | 6.511 | 0.0 | 86 | 18582 | 3.95 | |
| 122 Acenaphthylene | 152 | 6.582 | 6.587 | 0.0 | 89 | 120619 | 4.21 | |
| 123 3-Nitroaniline | 138 | 6.659 | 6.669 | -0.006 | 94 | 22061 | 3.71 | |
| 124 Acenaphthene | 153 | 6.723 | 6.728 | 0.0 | 93 | 75317 | 4.27 | |
| 126 2,4-Dinitrophenol | 184 | 6.741 | 6.752 | -0.006 | 41 | 3743 | 11.6 | |
| 127 4-Nitrophenol | 109 | 6.782 | 6.793 | -0.006 | 86 | 22139 | 7.19 | |
| 130 2,4-Dinitrotoluene | 165 | 6.847 | 6.852 | 0.0 | 82 | 22301 | 3.63 | |
| 132 Dibenzofuran | 168 | 6.864 | 6.869 | 0.0 | 81 | 108899 | 4.34 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.964 | 6.969 | 0.0 | 64 | 19176 | 3.55 | |
| 136 Hexadecane | 57 | 6.982 | 6.993 | -0.005 | 91 | 47971 | 4.11 | |
| 139 Diethyl phthalate | 149 | 7.011 | 7.022 | -0.006 | 95 | 86615 | 4.33 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.134 | 7.140 | 0.0 | 88 | 42463 | 4.19 | |
| 143 Fluorene | 166 | 7.152 | 7.163 | -0.006 | 81 | 88844 | 4.30 | |
| 146 4-Nitroaniline | 138 | 7.176 | 7.187 | -0.005 | 80 | 21736 | 3.85 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.187 | 7.192 | -0.006 | 76 | 17010 | 8.12 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.234 | 7.239 | -0.006 | 54 | 66289 | 4.16 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.270 | 7.275 | 0.001 | 98 | 90330 | 4.10 | |
| 152 Azobenzene | 77 | 7.270 | 7.275 | 0.001 | 97 | 90330 | 4.06 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.364 | 7.369 | 0.001 | 72 | 15826 | 3.40 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.552 | 7.551 | 0.001 | 58 | 26408 | 3.95 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.616 | 7.621 | -0.006 | 83 | 31764 | 3.93 | |
| 167 Atrazine | 200 | 7.663 | 7.662 | 0.0 | 81 | 18481 | 3.91 | |
| 169 n-Octadecane | 85 | 7.751 | 7.751 | 0.0 | 90 | 22639 | 3.89 | |
| 171 Pentachlorophenol | 266 | 7.787 | 7.786 | 0.001 | 77 | 19935 | 8.18 | |
| 176 Phenanthrene | 178 | 7.969 | 7.974 | -0.005 | 97 | 129787 | 4.38 | |
| 177 Anthracene | 178 | 8.016 | 8.015 | 0.0 | 97 | 128860 | 4.25 | |
| 178 Carbazole | 167 | 8.145 | 8.150 | -0.006 | 82 | 120995 | 4.18 | |
| 179 Alachlor | 188 | 8.216 | 8.215 | 0.001 | 88 | 15791 | 3.78 | |
| 181 Di-n-butyl phthalate | 149 | 8.374 | 8.373 | 0.0 | 99 | 132835 | 3.96 | |
| 188 Fluoranthene | 202 | 9.085 | 9.090 | -0.006 | 96 | 131576 | 4.03 | |
| 189 Benzidine | 184 | 9.232 | 9.231 | 0.0 | 92 | 64618 | 3.40 | |
| 191 Pyrene | 202 | 9.367 | 9.372 | -0.006 | 95 | 139091 | 4.08 | |
| 197 Famphur | 218 | 10.154 | 10.154 | 0.0 | 65 | 43983 | 3.71 | |
| 198 Butyl benzyl phthalate | 149 | 10.225 | 10.230 | -0.006 | 90 | 51109 | 3.43 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.318 | 11.323 | -0.006 | 94 | 64845 | 3.40 | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.324 | | | | | 9 |
| 206 Benzo[a]anthracene | 228 | 11.353 | 11.358 | -0.006 | 72 | 126483 | 3.91 | |
| 207 Chrysene | 228 | 11.435 | 11.446 | -0.012 | 90 | 124206 | 4.04 | |
| 209 Di-n-octyl phthalate | 149 | 12.986 | 12.986 | 0.0 | 75 | 82667 | 4.20 | |
| 211 Benzo[b]fluoranthene | 252 | 14.062 | 14.089 | -0.017 | 85 | 115653 | 3.61 | |
| 212 Benzo[k]fluoranthene | 252 | 14.144 | 14.166 | -0.012 | 92 | 127854 | 3.60 | |
| 214 Benzo[e]pyrene | 252 | 14.867 | 14.889 | -0.011 | 94 | 107046 | 3.71 | |
| 215 Benzo[a]pyrene | 252 | 15.019 | 15.042 | -0.012 | 47 | 115107 | 3.49 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.609 | 18.634 | -0.012 | 52 | 94121 | 3.17 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.503 | 18.526 | -0.024 | 96 | 90866 | 3.25 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.255 | 19.293 | -0.024 | 85 | 116912 | 3.61 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 8.16 | |
| S 226 Total Cresols | 108 | | | | 0 | | 8.16 | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

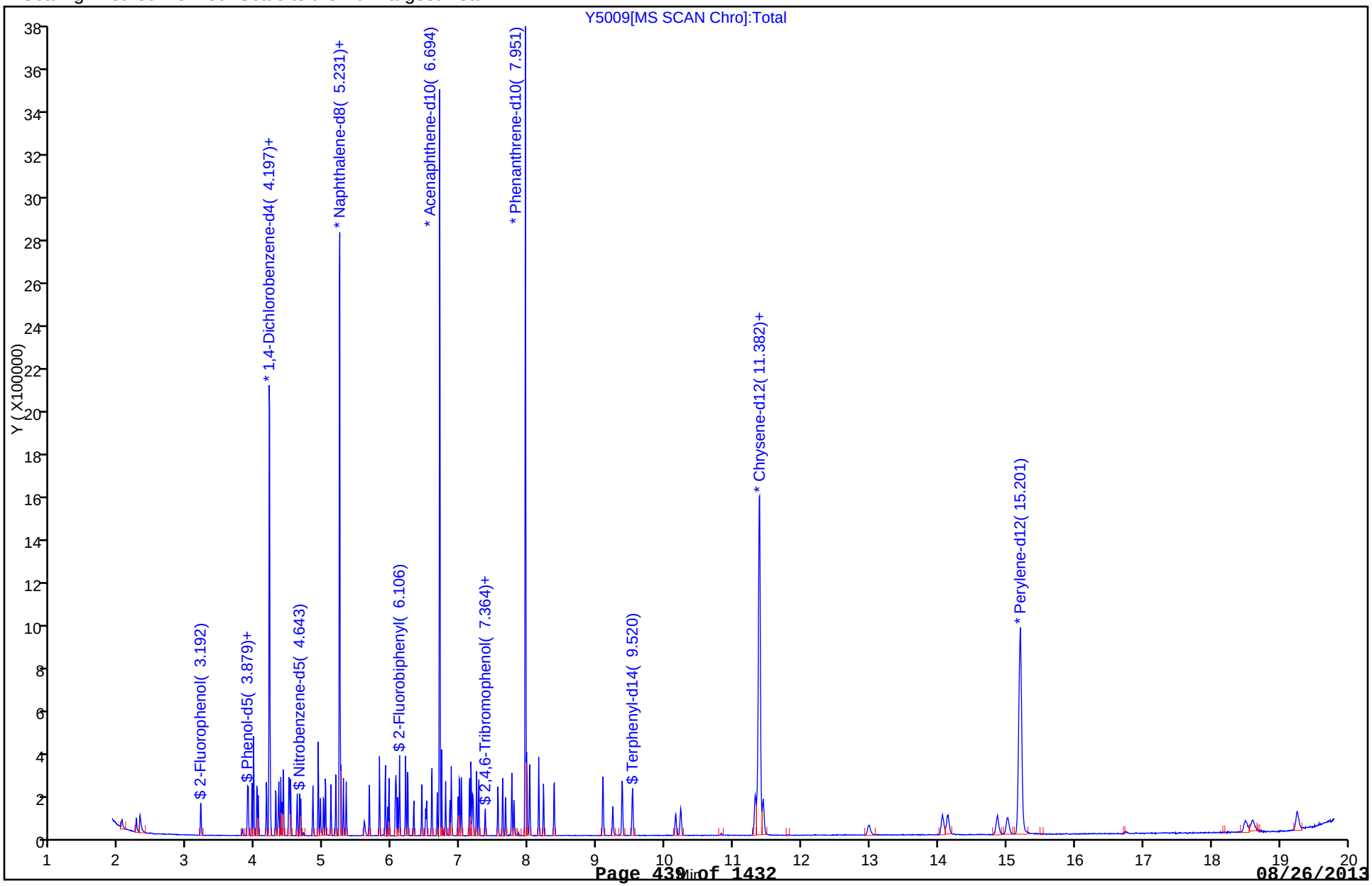
Report Date: 19-Jun-2013 10:52:07 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5009.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 07:55:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

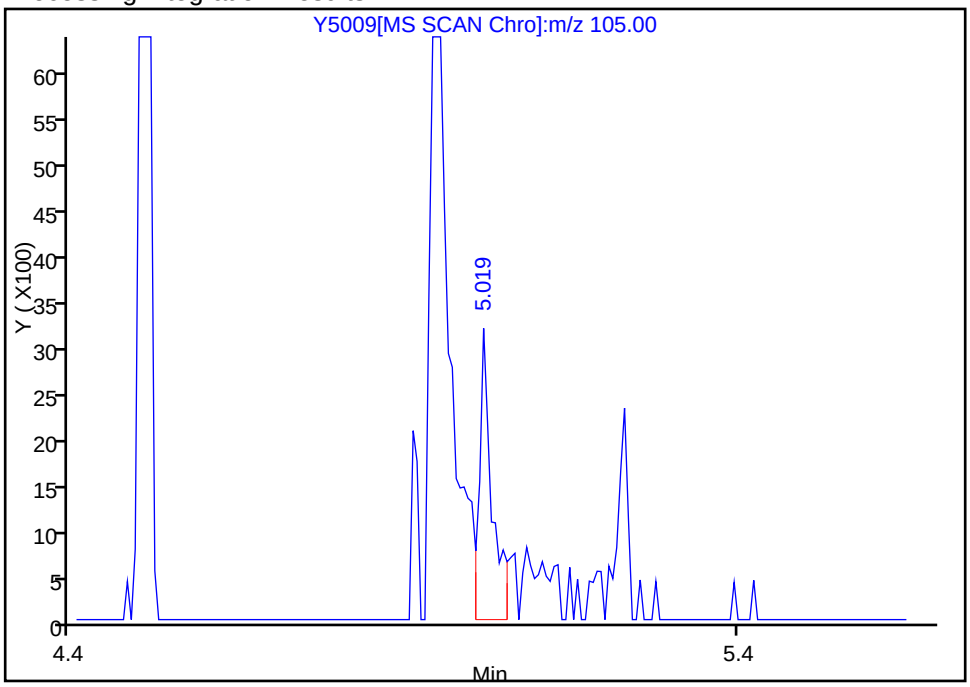
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5009.D | | |
| Injection Date: | 17-Jun-2013 07:55:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

77 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 5.00

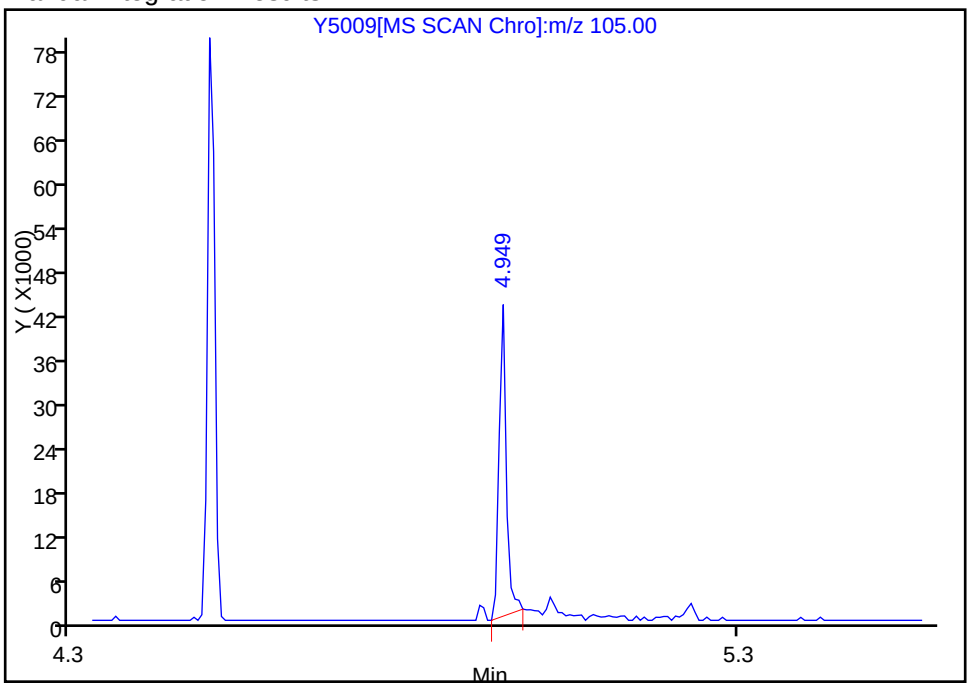
Processing Integration Results

RT: 5.02
Response: 4130
Amount: 18.573748




Manual Integration Results

RT: 4.95
Response: 32360
Amount: 8.347910




Reviewer: hoffmanm, 17-Jun-2013 11:45:49
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

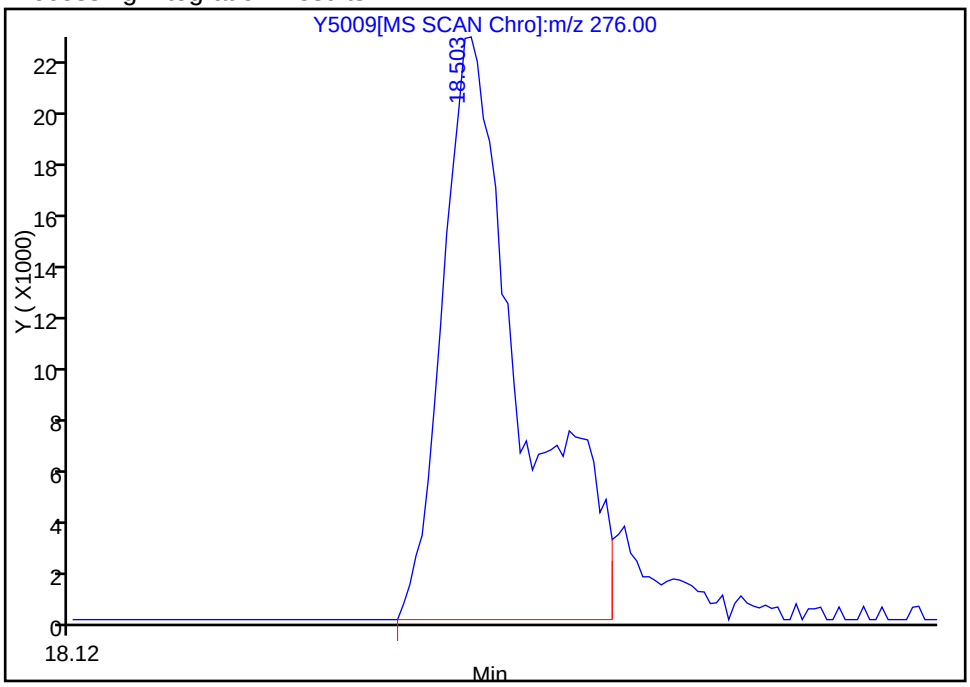
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5009.D | | |
| Injection Date: | 17-Jun-2013 07:55:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.53

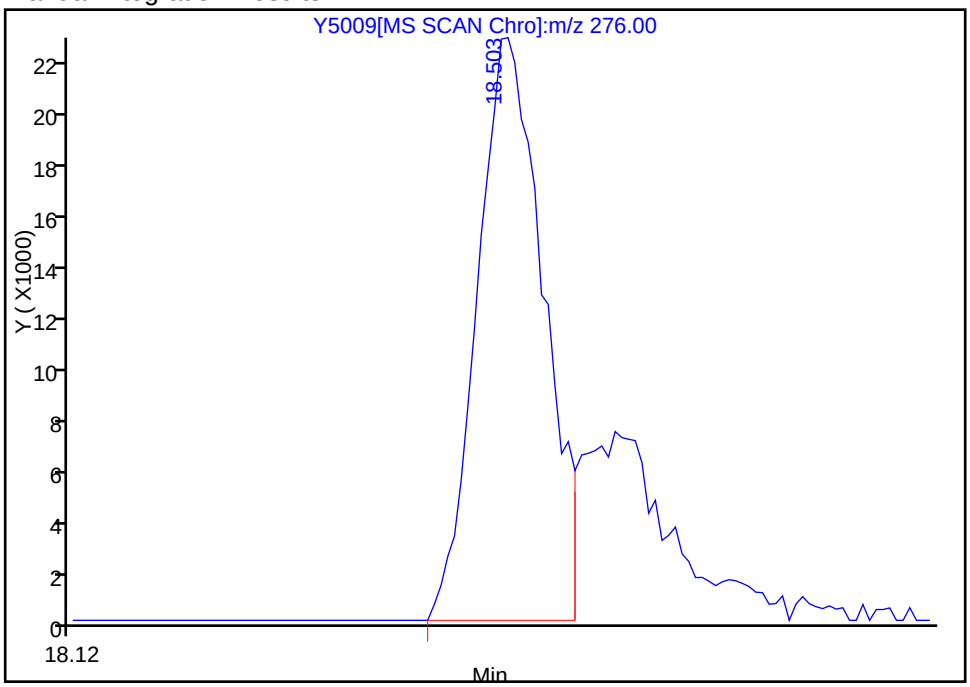
Processing Integration Results

RT: 18.50
Response: 118503
Amount: 3.454026




Manual Integration Results

RT: 18.50
Response: 90866
Amount: 3.252721




Reviewer: hoffmanm, 17-Jun-2013 11:45:49
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5010.D
Lims ID: IC HSLA010 Client ID:
Inject. Date: 17-Jun-2013 08:22:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: IC HSLA010
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 4
Lims Batch ID: 179033 Lims Sample ID: 4
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:09 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:46:53

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.200 | 4.202 | -0.002 | 96 | 290296 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.228 | 5.231 | -0.003 | 99 | 1111391 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.697 | 6.694 | 0.003 | 90 | 660836 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.948 | 7.951 | -0.003 | 96 | 1130586 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.380 | 11.388 | -0.008 | 80 | 1311148 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.205 | 15.201 | 0.004 | 87 | 1264995 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.195 | 3.191 | 0.003 | 88 | 108983 | 10.3 | |
| $ 8 Phenol-d5 | 99 | 3.883 | 3.879 | 0.004 | 94 | 136067 | 10.5 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.641 | 4.643 | -0.002 | 87 | 113403 | 10.3 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.109 | 6.111 | 0.003 | 99 | 227301 | 10.7 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.361 | 7.369 | -0.002 | 89 | 43355 | 9.44 | |
| $ 13 Terphenyl-d14 | 244 | 9.523 | 9.519 | 0.003 | 97 | 267479 | 10.1 | |
| 27 1,4-Dioxane | 88 | 2.038 | 2.040 | -0.002 | 91 | 49905 | 10.3 | |
| 28 N-Nitrosodimethylamine | 74 | 2.249 | 2.246 | 0.003 | 84 | 72837 | 10.3 | |
| 29 Pyridine | 79 | 2.296 | 2.293 | 0.003 | 96 | 118257 | 9.80 | |
| 40 Phenol | 94 | 3.889 | 3.890 | -0.002 | 98 | 145522 | 10.8 | |
| 43 Aniline | 93 | 3.947 | 3.943 | 0.003 | 99 | 173173 | 10.3 | |
| 44 Alpha Methyl Styrene | 118 | 3.971 | 3.967 | 0.004 | 93 | 117369 | 10.9 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.971 | 3.973 | -0.002 | 93 | 112872 | 10.6 | |
| 47 n-Decane | 43 | 4.018 | 4.014 | 0.004 | 89 | 99530 | 10.6 | |
| 48 2-Chlorophenol | 128 | 4.035 | 4.037 | -0.003 | 96 | 110836 | 10.5 | |
| 49 1,3-Dichlorobenzene | 146 | 4.159 | 4.155 | 0.004 | 97 | 120768 | 10.5 | |
| 50 1,4-Dichlorobenzene | 146 | 4.212 | 4.214 | -0.002 | 89 | 123590 | 10.6 | |
| 51 Benzyl alcohol | 108 | 4.294 | 4.296 | -0.002 | 94 | 70603 | 10.0 | |
| 52 1,2-Dichlorobenzene | 146 | 4.335 | 4.337 | -0.003 | 95 | 117548 | 10.6 | |
| 54 2-Methylphenol | 108 | 4.364 | 4.366 | -0.003 | 94 | 106196 | 10.6 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.382 | 4.384 | -0.003 | 92 | 133974 | 10.4 | |
| 56 Indene | 116 | 4.406 | 4.402 | 0.004 | 74 | 182225 | 10.4 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.488 | 4.490 | -0.002 | 94 | 108726 | 10.5 | |
| 59 4-Methylphenol | 108 | 4.488 | 4.490 | -0.002 | 94 | 108726 | 10.5 | |
| 60 3 & 4 Methylphenol | 108 | 4.488 | 4.490 | -0.002 | 94 | 108726 | 10.5 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.494 | 4.496 | -0.002 | 84 | 79445 | 10.5 | |
| 63 Acetophenone | 105 | 4.511 | 4.513 | -0.003 | 96 | 150345 | 10.5 | |
| 66 Hexachloroethane | 117 | 4.605 | 4.607 | -0.003 | 92 | 47767 | 10.2 | |
| 67 Nitrobenzene | 77 | 4.658 | 4.660 | -0.003 | 87 | 114279 | 10.4 | |
| 71 Isophorone | 82 | 4.834 | 4.836 | -0.003 | 98 | 203516 | 10.5 | |
| 73 2,4-Dimethylphenol | 107 | 4.917 | 4.913 | 0.004 | 90 | 104881 | 10.6 | |
| 74 2-Nitrophenol | 139 | 4.917 | 4.913 | 0.004 | 92 | 53109 | 10.2 | |
| 77 Benzoic acid | 105 | 4.958 | 5.001 | -0.044 | 87 | 112427 | 18.7 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.993 | 4.989 | 0.003 | 98 | 127671 | 10.4 | |
| 79 3,5-Dimethylphenol | 107 | 5.023 | 5.024 | -0.003 | 91 | 107655 | 10.4 | |
| 82 2,4-Dichlorophenol | 162 | 5.099 | 5.101 | -0.002 | 94 | 87810 | 10.2 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.175 | 5.171 | 0.003 | 85 | 94058 | 10.3 | |
| 87 Naphthalene | 128 | 5.246 | 5.248 | -0.002 | 97 | 312851 | 10.9 | |
| 88 4-Chloroaniline | 127 | 5.287 | 5.283 | 0.003 | 86 | 140329 | 10.5 | |
| 91 Hexachlorobutadiene | 225 | 5.328 | 5.324 | 0.003 | 93 | 59094 | 10.5 | |
| 94 Caprolactam | 55 | 5.587 | 5.582 | 0.004 | 68 | 41065 | 9.62 | |
| 97 4-Chloro-3-methylphenol | 107 | 5.663 | 5.665 | -0.002 | 90 | 90082 | 10.5 | |
| 101 2-Methylnaphthalene | 142 | 5.810 | 5.812 | -0.002 | 87 | 199739 | 10.7 | |
| 103 1-Methylnaphthalene | 142 | 5.898 | 5.900 | -0.002 | 83 | 187635 | 10.7 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.933 | 5.940 | -0.003 | 87 | 46023 | 8.14 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.951 | 5.953 | -0.002 | 93 | 95066 | 10.5 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.045 | 6.052 | -0.002 | 90 | 59741 | 9.84 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.057 | 6.064 | -0.002 | 93 | 110558 | 10.4 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.080 | 6.081 | 0.003 | 95 | 66201 | 10.0 | |
| 112 1,1'-Biphenyl | 154 | 6.198 | 6.199 | 0.004 | 94 | 235989 | 10.6 | |
| 114 2-Chloronaphthalene | 162 | 6.227 | 6.234 | -0.002 | 96 | 197503 | 10.7 | |
| 116 2-Nitroaniline | 65 | 6.315 | 6.323 | -0.003 | 84 | 55703 | 10.1 | |
| 119 Dimethyl phthalate | 163 | 6.433 | 6.440 | -0.002 | 98 | 209450 | 10.5 | |
| 120 1,3-Dinitrobenzene | 168 | 6.486 | 6.499 | -0.008 | 84 | 31177 | 9.41 | |
| 121 2,6-Dinitrotoluene | 165 | 6.503 | 6.511 | -0.003 | 87 | 46151 | 9.89 | |
| 122 Acenaphthylene | 152 | 6.580 | 6.587 | -0.002 | 90 | 299839 | 10.6 | |
| 123 3-Nitroaniline | 138 | 6.662 | 6.669 | -0.002 | 97 | 59186 | 10.0 | |
| 124 Acenaphthene | 153 | 6.721 | 6.728 | -0.002 | 95 | 189075 | 10.8 | |
| 126 2,4-Dinitrophenol | 184 | 6.744 | 6.752 | -0.003 | 79 | 18946 | 16.5 | |
| 127 4-Nitrophenol | 109 | 6.779 | 6.793 | -0.009 | 89 | 59639 | 19.5 | |
| 130 2,4-Dinitrotoluene | 165 | 6.844 | 6.852 | -0.002 | 81 | 59217 | 9.72 | |
| 132 Dibenzofuran | 168 | 6.867 | 6.869 | 0.003 | 88 | 270966 | 10.9 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.967 | 6.969 | 0.003 | 65 | 50438 | 9.41 | |
| 136 Hexadecane | 57 | 6.985 | 6.993 | -0.002 | 93 | 119153 | 10.3 | |
| 139 Diethyl phthalate | 149 | 7.014 | 7.022 | -0.003 | 97 | 210498 | 10.6 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.132 | 7.140 | -0.002 | 93 | 106679 | 10.6 | |
| 143 Fluorene | 166 | 7.155 | 7.163 | -0.003 | 82 | 215292 | 10.5 | |
| 146 4-Nitroaniline | 138 | 7.179 | 7.187 | -0.002 | 79 | 55404 | 9.91 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.185 | 7.192 | -0.008 | 79 | 59978 | 19.0 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.238 | 7.239 | -0.002 | 57 | 164810 | 10.5 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.267 | 7.275 | -0.002 | 98 | 230551 | 10.6 | |
| 152 Azobenzene | 77 | 7.267 | 7.275 | -0.002 | 99 | 230551 | 10.4 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.361 | 7.369 | -0.002 | 89 | 43969 | 9.54 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.549 | 7.551 | -0.002 | 60 | 65962 | 10.0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.619 | 7.621 | -0.003 | 88 | 81764 | 10.2 | |
| 167 Atrazine | 200 | 7.661 | 7.662 | -0.002 | 89 | 49556 | 10.6 | |
| 169 n-Octadecane | 85 | 7.755 | 7.751 | 0.004 | 95 | 57333 | 9.96 | |
| 171 Pentachlorophenol | 266 | 7.784 | 7.786 | -0.002 | 87 | 70957 | 18.9 | |
| 176 Phenanthrene | 178 | 7.972 | 7.974 | -0.002 | 97 | 314189 | 10.7 | |
| 177 Anthracene | 178 | 8.013 | 8.015 | -0.003 | 97 | 312368 | 10.4 | |
| 178 Carbazole | 167 | 8.148 | 8.150 | -0.003 | 82 | 302681 | 10.6 | |
| 179 Alachlor | 188 | 8.219 | 8.215 | 0.004 | 96 | 40036 | 9.71 | |
| 181 Di-n-butyl phthalate | 149 | 8.372 | 8.373 | -0.002 | 100 | 341479 | 10.3 | |
| 188 Fluoranthene | 202 | 9.088 | 9.090 | -0.003 | 97 | 331933 | 10.3 | |
| 189 Benzidine | 184 | 9.235 | 9.231 | 0.003 | 97 | 187743 | 9.89 | |
| 191 Pyrene | 202 | 9.370 | 9.372 | -0.003 | 96 | 348562 | 10.3 | |
| 197 Famphur | 218 | 10.152 | 10.154 | -0.002 | 80 | 115932 | 9.81 | |
| 198 Butyl benzyl phthalate | 149 | 10.228 | 10.230 | -0.003 | 95 | 144056 | 9.68 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.321 | 11.323 | -0.003 | 95 | 175520 | 9.22 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.321 | 11.323 | -0.003 | 57 | 126531 | 9.17 | |
| 206 Benzo[a]anthracene | 228 | 11.356 | 11.358 | -0.003 | 88 | 329057 | 10.2 | |
| 207 Chrysene | 228 | 11.439 | 11.446 | -0.009 | 93 | 311682 | 10.2 | |
| 209 Di-n-octyl phthalate | 149 | 12.990 | 12.986 | 0.004 | 97 | 248137 | 9.12 | |
| 211 Benzo[b]fluoranthene | 252 | 14.065 | 14.089 | -0.014 | 83 | 299192 | 9.42 | |
| 212 Benzo[k]fluoranthene | 252 | 14.141 | 14.166 | -0.015 | 89 | 343748 | 9.77 | |
| 214 Benzo[e]pyrene | 252 | 14.870 | 14.889 | -0.008 | 97 | 273383 | 9.56 | |
| 215 Benzo[a]pyrene | 252 | 15.017 | 15.042 | -0.014 | 63 | 302266 | 9.24 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.612 | 18.634 | -0.009 | 53 | 262135 | 8.92 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.501 | 18.526 | -0.026 | 96 | 248198 | 8.90 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.259 | 19.293 | -0.020 | 89 | 310091 | 9.66 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 21.2 | |
| S 226 Total Cresols | 108 | | | | 0 | | 21.2 | |

QC Flag Legend

Review Flags
M - Manually Integrated

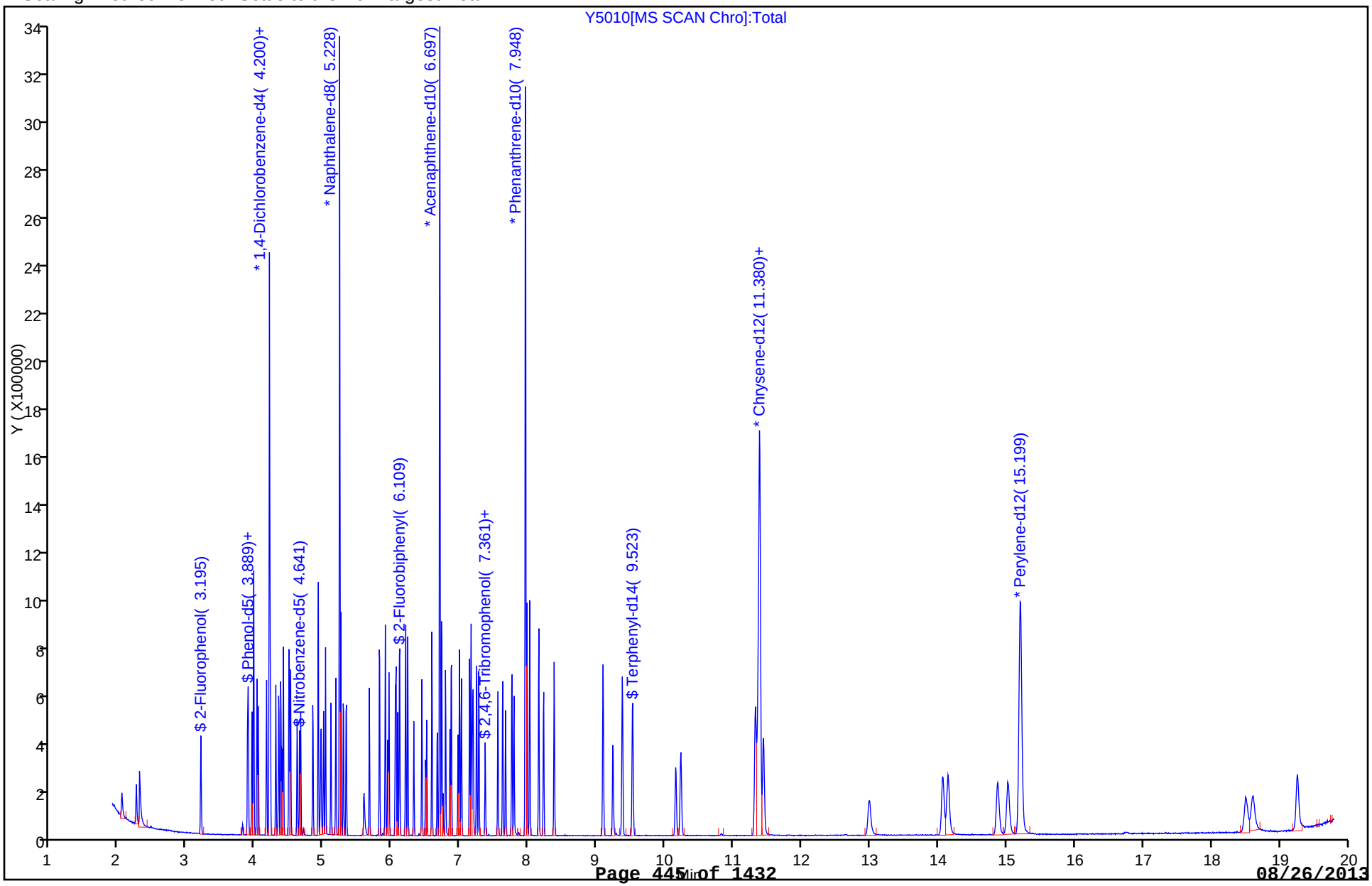
Report Date: 19-Jun-2013 10:52:09 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5010.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 08:22:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 4 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

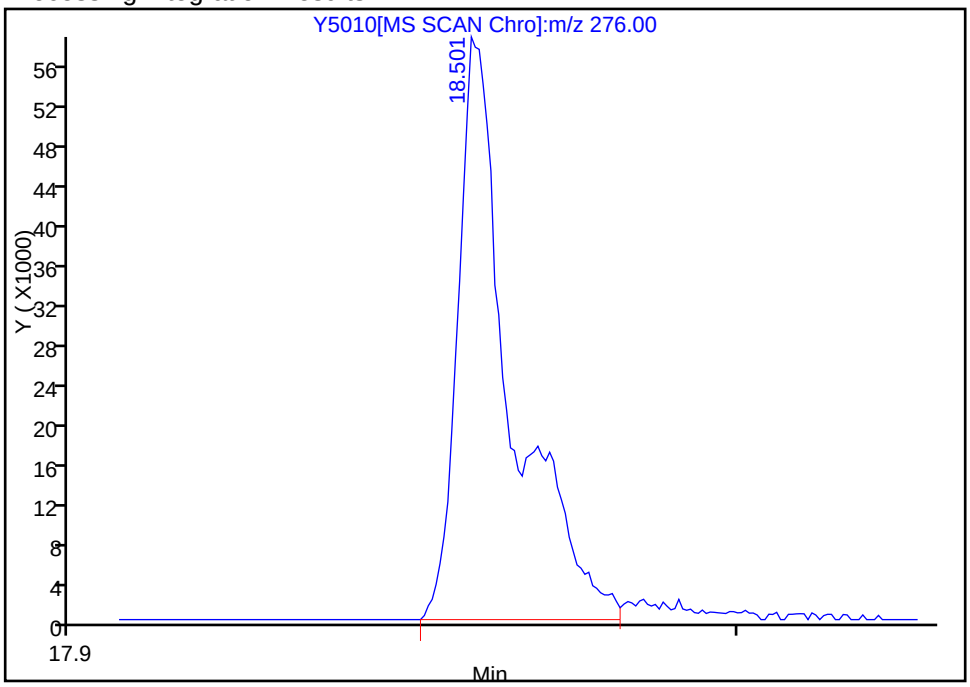
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5010.D | | |
| Injection Date: | 17-Jun-2013 08:22:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 4 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.53

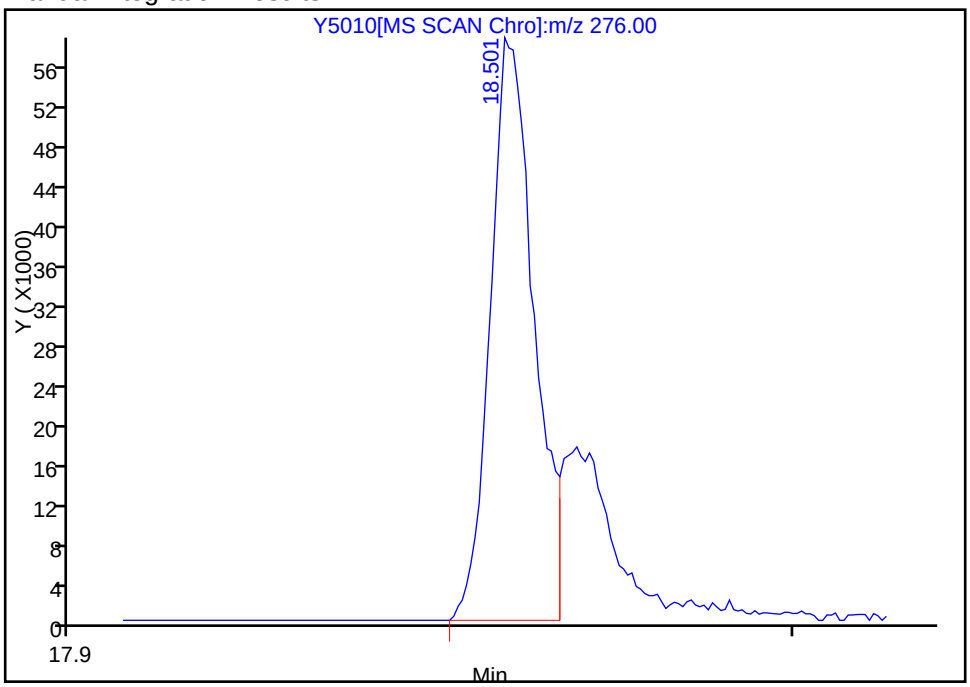
Processing Integration Results

RT: 18.50
Response: 327134
Amount: 14.262753




Manual Integration Results

RT: 18.50
Response: 248198
Amount: 8.903989




Reviewer: hoffmanm, 17-Jun-2013 11:46:53
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5011.D
Lims ID: IC HSLA020 Client ID:
Inject. Date: 17-Jun-2013 08:48:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: IC HSLA020
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 5
Lims Batch ID: 179033 Lims Sample ID: 5
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:11 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:47:48

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.203 | 4.202 | 0.001 | 94 | 284911 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.231 | 0.0 | 99 | 1091882 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.694 | 6.694 | 0.0 | 88 | 638376 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.952 | 7.951 | 0.001 | 97 | 1092667 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.383 | 11.388 | -0.005 | 80 | 1274735 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.202 | 15.201 | 0.001 | 84 | 1226784 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.198 | 3.191 | 0.006 | 88 | 211240 | 20.4 | |
| $ 8 Phenol-d5 | 99 | 3.880 | 3.879 | 0.001 | 92 | 263884 | 20.7 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.644 | 4.643 | 0.001 | 87 | 219118 | 20.3 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.107 | 6.111 | 0.001 | 99 | 441216 | 21.5 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.364 | 7.369 | 0.001 | 92 | 85681 | 19.3 | |
| $ 13 Terphenyl-d14 | 244 | 9.520 | 9.519 | 0.0 | 98 | 528138 | 20.5 | |
| 27 1,4-Dioxane | 88 | 2.041 | 2.040 | 0.001 | 93 | 96895 | 20.4 | |
| 28 N-Nitrosodimethylamine | 74 | 2.247 | 2.246 | 0.001 | 84 | 142042 | 20.4 | |
| 29 Pyridine | 79 | 2.294 | 2.293 | 0.001 | 98 | 237716 | 20.1 | |
| 40 Phenol | 94 | 3.892 | 3.890 | 0.001 | 97 | 281920 | 21.3 | |
| 43 Aniline | 93 | 3.945 | 3.943 | 0.001 | 99 | 339183 | 20.6 | |
| 44 Alpha Methyl Styrene | 118 | 3.968 | 3.967 | 0.001 | 89 | 226895 | 21.4 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.974 | 3.973 | 0.001 | 96 | 228846 | 21.9 | |
| 47 n-Decane | 43 | 4.021 | 4.014 | 0.007 | 88 | 188299 | 20.5 | |
| 48 2-Chlorophenol | 128 | 4.039 | 4.037 | 0.001 | 95 | 215015 | 20.7 | |
| 49 1,3-Dichlorobenzene | 146 | 4.156 | 4.155 | 0.001 | 97 | 236358 | 20.9 | |
| 50 1,4-Dichlorobenzene | 146 | 4.215 | 4.214 | 0.001 | 94 | 242915 | 21.2 | |
| 51 Benzyl alcohol | 108 | 4.297 | 4.296 | 0.001 | 92 | 142656 | 20.6 | |
| 52 1,2-Dichlorobenzene | 146 | 4.338 | 4.337 | 0.0 | 96 | 230612 | 21.1 | |
| 54 2-Methylphenol | 108 | 4.368 | 4.366 | 0.001 | 94 | 204528 | 20.9 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.385 | 4.384 | 0.0 | 93 | 264265 | 20.8 | |
| 56 Indene | 116 | 4.403 | 4.402 | 0.001 | 74 | 357995 | 20.8 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.485 | 4.490 | -0.005 | 99 | 214564 | 21.2 | |
| 59 4-Methylphenol | 108 | 4.485 | 4.490 | -0.005 | 99 | 214564 | 21.2 | |
| 60 3 & 4 Methylphenol | 108 | 4.485 | 4.490 | -0.005 | 99 | 214564 | 21.2 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.497 | 4.496 | 0.001 | 84 | 155025 | 20.9 | |
| 63 Acetophenone | 105 | 4.509 | 4.513 | -0.005 | 94 | 295422 | 21.1 | |
| 66 Hexachloroethane | 117 | 4.609 | 4.607 | 0.0 | 91 | 94699 | 20.7 | |
| 67 Nitrobenzene | 77 | 4.661 | 4.660 | 0.0 | 85 | 223961 | 20.7 | |
| 71 Isophorone | 82 | 4.838 | 4.836 | 0.001 | 97 | 395889 | 20.8 | |
| 73 2,4-Dimethylphenol | 107 | 4.914 | 4.913 | 0.001 | 89 | 206956 | 21.3 | |
| 74 2-Nitrophenol | 139 | 4.914 | 4.913 | 0.001 | 95 | 103911 | 20.3 | |
| 77 Benzoic acid | 105 | 4.967 | 5.001 | -0.035 | 89 | 245647 | 36.2 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.996 | 4.989 | 0.006 | 97 | 252559 | 21.0 | |
| 79 3,5-Dimethylphenol | 107 | 5.020 | 5.024 | -0.005 | 93 | 216552 | 21.3 | |
| 82 2,4-Dichlorophenol | 162 | 5.102 | 5.101 | 0.001 | 93 | 178019 | 21.0 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.173 | 5.171 | 0.001 | 93 | 188230 | 20.9 | |
| 87 Naphthalene | 128 | 5.249 | 5.248 | 0.001 | 97 | 600034 | 21.3 | |
| 88 4-Chloroaniline | 127 | 5.284 | 5.283 | 0.0 | 86 | 277476 | 21.1 | |
| 91 Hexachlorobutadiene | 225 | 5.325 | 5.324 | 0.0 | 90 | 117298 | 21.2 | |
| 94 Caprolactam | 55 | 5.584 | 5.582 | 0.001 | 74 | 81118 | 19.3 | |
| 97 4-Chloro-3-methylphenol | 107 | 5.666 | 5.665 | 0.001 | 87 | 175403 | 20.7 | |
| 101 2-Methylnaphthalene | 142 | 5.813 | 5.812 | 0.001 | 86 | 391418 | 21.3 | |
| 103 1-Methylnaphthalene | 142 | 5.901 | 5.900 | 0.001 | 83 | 363692 | 21.1 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.936 | 5.940 | 0.0 | 92 | 101091 | 18.5 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.954 | 5.953 | 0.001 | 93 | 188325 | 21.3 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.048 | 6.052 | 0.001 | 89 | 122592 | 20.9 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.054 | 6.064 | -0.005 | 94 | 218734 | 21.3 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.083 | 6.081 | 0.006 | 94 | 133975 | 21.0 | |
| 112 1,1'-Biphenyl | 154 | 6.195 | 6.199 | 0.001 | 95 | 466694 | 21.6 | |
| 114 2-Chloronaphthalene | 162 | 6.230 | 6.234 | 0.001 | 96 | 379180 | 21.3 | |
| 116 2-Nitroaniline | 65 | 6.318 | 6.323 | 0.0 | 87 | 109698 | 20.5 | |
| 119 Dimethyl phthalate | 163 | 6.436 | 6.440 | 0.001 | 98 | 408961 | 21.1 | |
| 120 1,3-Dinitrobenzene | 168 | 6.489 | 6.499 | -0.005 | 86 | 63996 | 20.0 | |
| 121 2,6-Dinitrotoluene | 165 | 6.506 | 6.511 | 0.0 | 90 | 92732 | 20.6 | |
| 122 Acenaphthylene | 152 | 6.583 | 6.587 | 0.001 | 90 | 590874 | 21.5 | |
| 123 3-Nitroaniline | 138 | 6.659 | 6.669 | -0.005 | 96 | 119177 | 20.9 | |
| 124 Acenaphthene | 153 | 6.724 | 6.728 | 0.001 | 94 | 366308 | 21.7 | |
| 126 2,4-Dinitrophenol | 184 | 6.741 | 6.752 | -0.006 | 79 | 62751 | 31.2 | |
| 127 4-Nitrophenol | 109 | 6.782 | 6.793 | -0.006 | 85 | 122183 | 41.4 | |
| 130 2,4-Dinitrotoluene | 165 | 6.847 | 6.852 | 0.001 | 85 | 123356 | 21.0 | |
| 132 Dibenzofuran | 168 | 6.865 | 6.869 | 0.001 | 85 | 519105 | 21.6 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.965 | 6.969 | 0.001 | 68 | 108534 | 21.0 | |
| 136 Hexadecane | 57 | 6.982 | 6.993 | -0.005 | 94 | 239970 | 21.5 | |
| 139 Diethyl phthalate | 149 | 7.012 | 7.022 | -0.005 | 96 | 410622 | 21.4 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.135 | 7.140 | 0.001 | 89 | 207228 | 21.3 | |
| 143 Fluorene | 166 | 7.153 | 7.163 | -0.005 | 83 | 422981 | 21.4 | |
| 146 4-Nitroaniline | 138 | 7.176 | 7.187 | -0.005 | 82 | 116654 | 21.6 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.188 | 7.192 | -0.005 | 86 | 139433 | 40.3 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.235 | 7.239 | -0.005 | 58 | 316904 | 20.8 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.270 | 7.275 | 0.001 | 97 | 458441 | 21.7 | |
| 152 Azobenzene | 77 | 7.270 | 7.275 | 0.001 | 98 | 458441 | 21.5 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.364 | 7.369 | 0.001 | 92 | 86379 | 19.4 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.546 | 7.551 | -0.005 | 63 | 133380 | 20.9 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.617 | 7.621 | -0.005 | 88 | 159714 | 20.7 | |
| 167 Atrazine | 200 | 7.664 | 7.662 | 0.001 | 92 | 96187 | 21.3 | |
| 169 n-Octadecane | 85 | 7.752 | 7.751 | 0.001 | 96 | 119054 | 21.4 | |
| 171 Pentachlorophenol | 266 | 7.781 | 7.786 | -0.005 | 86 | 161776 | 39.1 | |
| 176 Phenanthrene | 178 | 7.969 | 7.974 | -0.005 | 98 | 609259 | 21.5 | |
| 177 Anthracene | 178 | 8.016 | 8.015 | 0.0 | 97 | 625766 | 21.6 | |
| 178 Carbazole | 167 | 8.146 | 8.150 | -0.005 | 82 | 594520 | 21.5 | |
| 179 Alachlor | 188 | 8.216 | 8.215 | 0.001 | 98 | 86093 | 21.6 | |
| 181 Di-n-butyl phthalate | 149 | 8.375 | 8.373 | 0.001 | 100 | 689642 | 21.5 | |
| 188 Fluoranthene | 202 | 9.091 | 9.090 | 0.0 | 97 | 655272 | 21.0 | |
| 189 Benzidine | 184 | 9.232 | 9.231 | 0.0 | 98 | 404008 | 21.9 | |
| 191 Pyrene | 202 | 9.374 | 9.372 | 0.001 | 98 | 696978 | 21.1 | |
| 197 Famphur | 218 | 10.155 | 10.154 | 0.001 | 81 | 243745 | 21.2 | |
| 198 Butyl benzyl phthalate | 149 | 10.231 | 10.230 | 0.0 | 96 | 291480 | 20.1 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.324 | 11.323 | 0.0 | 96 | 367837 | 19.9 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.324 | 11.323 | 0.0 | 62 | 263831 | 19.7 | |
| 206 Benzo[a]anthracene | 228 | 11.359 | 11.358 | 0.0 | 89 | 643310 | 20.5 | |
| 207 Chrysene | 228 | 11.442 | 11.446 | -0.005 | 93 | 607607 | 20.4 | |
| 209 Di-n-octyl phthalate | 149 | 12.987 | 12.986 | 0.001 | 98 | 543728 | 18.4 | |
| 211 Benzo[b]fluoranthene | 252 | 14.068 | 14.089 | -0.011 | 89 | 614647 | 20.0 | |
| 212 Benzo[k]fluoranthene | 252 | 14.150 | 14.166 | -0.006 | 89 | 696389 | 20.4 | |
| 214 Benzo[e]pyrene | 252 | 14.873 | 14.889 | -0.005 | 97 | 562851 | 20.3 | |
| 215 Benzo[a]pyrene | 252 | 15.026 | 15.042 | -0.005 | 71 | 631213 | 19.9 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.616 | 18.634 | -0.005 | 59 | 543389 | 19.1 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.510 | 18.526 | -0.017 | 98 | 505795 | 18.7 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.268 | 19.293 | -0.011 | 89 | 600629 | 19.3 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 42.1 | |
| S 226 Total Cresols | 108 | | | | 0 | | 42.1 | |

QC Flag Legend

Review Flags
M - Manually Integrated

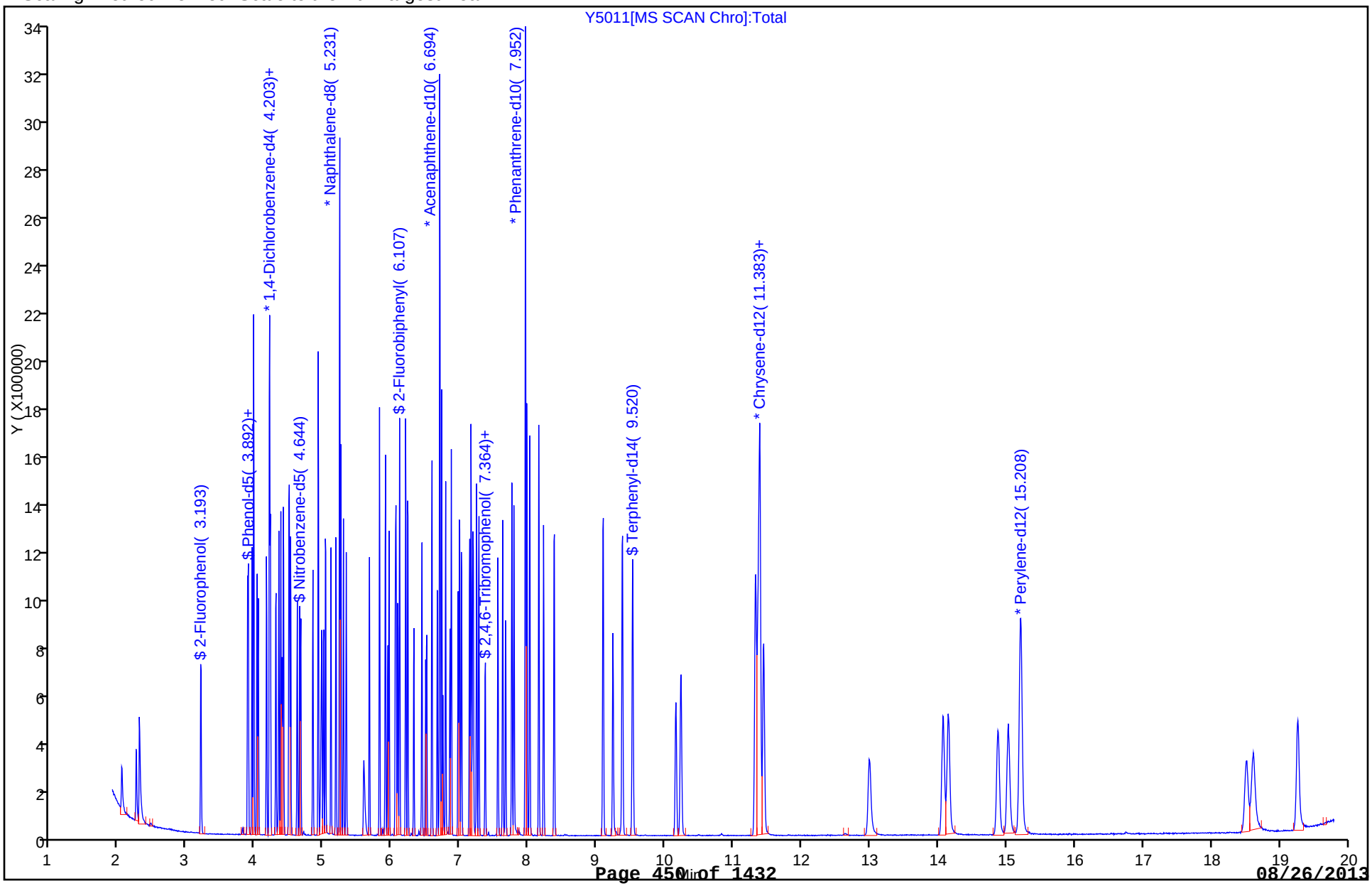
Report Date: 19-Jun-2013 10:52:11 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5011.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 08:48:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 5 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

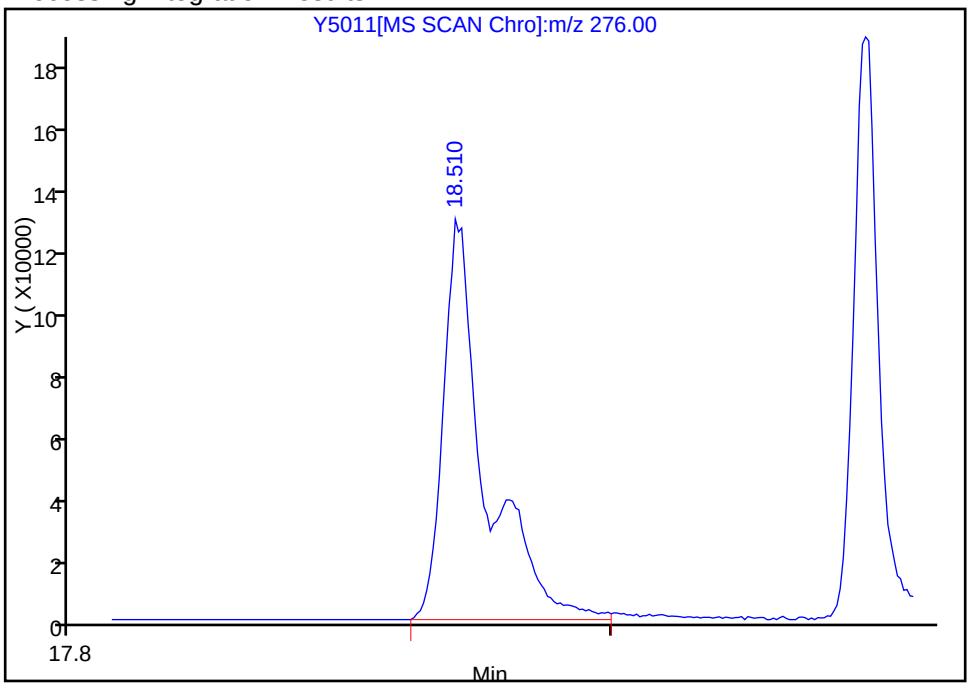
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5011.D | | |
| Injection Date: | 17-Jun-2013 08:48:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 5 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.53

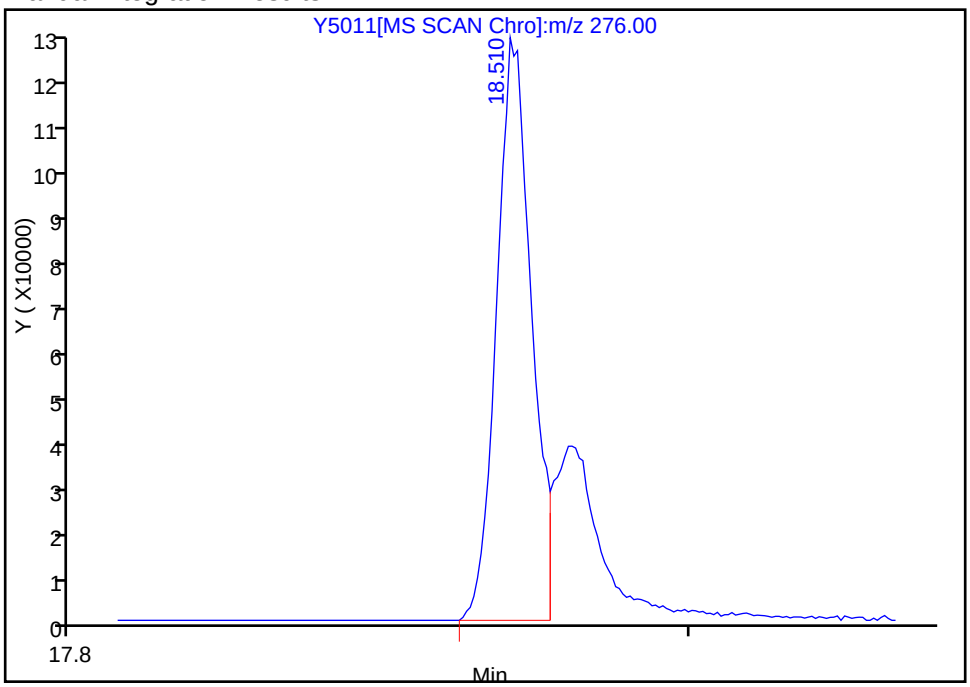
Processing Integration Results

RT: 18.51
Response: 697392
Amount: 24.524184




Manual Integration Results

RT: 18.51
Response: 505795
Amount: 18.663483




Reviewer: hoffmanm, 17-Jun-2013 11:47:48
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5012.D
Lims ID: IC HSLA050 Client ID:
Inject. Date: 17-Jun-2013 09:14:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: IC HSLA050
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 6
Lims Batch ID: 179033 Lims Sample ID: 6
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:13 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:48:14

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.204 | 4.202 | 0.002 | 94 | 284541 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.233 | 5.231 | 0.002 | 99 | 1080613 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.696 | 6.694 | 0.002 | 86 | 642823 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.953 | 7.951 | 0.002 | 97 | 1089349 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.390 | 11.388 | 0.002 | 79 | 1266253 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.209 | 15.201 | 0.008 | 87 | 1223856 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.194 | 3.191 | 0.002 | 90 | 523445 | 50.5 | |
| $ 8 Phenol-d5 | 99 | 3.881 | 3.879 | 0.002 | 92 | 641194 | 50.3 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.645 | 4.643 | 0.002 | 86 | 547864 | 51.2 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.108 | 6.111 | 0.002 | 99 | 1058020 | 51.1 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.365 | 7.369 | 0.002 | 89 | 228327 | 51.1 | |
| $ 13 Terphenyl-d14 | 244 | 9.528 | 9.519 | 0.008 | 98 | 1309473 | 51.3 | |
| 27 1,4-Dioxane | 88 | 2.036 | 2.040 | -0.004 | 93 | 231970 | 48.8 | |
| 28 N-Nitrosodimethylamine | 74 | 2.248 | 2.246 | 0.002 | 91 | 346719 | 49.9 | |
| 29 Pyridine | 79 | 2.295 | 2.293 | 0.002 | 95 | 590267 | 49.9 | |
| 40 Phenol | 94 | 3.893 | 3.890 | 0.002 | 98 | 658731 | 49.8 | |
| 43 Aniline | 93 | 3.946 | 3.943 | 0.002 | 99 | 826142 | 50.2 | |
| 44 Alpha Methyl Styrene | 118 | 3.969 | 3.967 | 0.002 | 90 | 541361 | 51.1 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.969 | 3.973 | -0.004 | 97 | 535129 | 51.4 | |
| 47 n-Decane | 43 | 4.016 | 4.014 | 0.002 | 89 | 463190 | 50.4 | |
| 48 2-Chlorophenol | 128 | 4.040 | 4.037 | 0.002 | 95 | 527046 | 50.8 | |
| 49 1,3-Dichlorobenzene | 146 | 4.157 | 4.155 | 0.002 | 97 | 581265 | 51.5 | |
| 50 1,4-Dichlorobenzene | 146 | 4.216 | 4.214 | 0.002 | 94 | 582860 | 50.9 | |
| 51 Benzyl alcohol | 108 | 4.292 | 4.296 | -0.004 | 91 | 352385 | 51.0 | |
| 52 1,2-Dichlorobenzene | 146 | 4.339 | 4.337 | 0.001 | 96 | 557484 | 51.1 | |
| 54 2-Methylphenol | 108 | 4.369 | 4.366 | 0.002 | 93 | 495523 | 50.7 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.386 | 4.384 | 0.001 | 93 | 643927 | 50.9 | |
| 56 Indene | 116 | 4.404 | 4.402 | 0.002 | 74 | 876532 | 51.1 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.486 | 4.490 | -0.004 | 99 | 519326 | 51.3 | |
| 59 4-Methylphenol | 108 | 4.486 | 4.490 | -0.004 | 99 | 519326 | 51.3 | |
| 60 3 & 4 Methylphenol | 108 | 4.486 | 4.490 | -0.004 | 99 | 519326 | 51.3 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.492 | 4.496 | -0.004 | 86 | 375431 | 50.8 | |
| 63 Acetophenone | 105 | 4.510 | 4.513 | -0.004 | 95 | 714231 | 51.0 | |
| 66 Hexachloroethane | 117 | 4.610 | 4.607 | 0.002 | 92 | 233929 | 51.1 | |
| 67 Nitrobenzene | 77 | 4.663 | 4.660 | 0.002 | 85 | 549083 | 51.2 | |
| 71 Isophorone | 82 | 4.839 | 4.836 | 0.002 | 97 | 970531 | 51.6 | |
| 73 2,4-Dimethylphenol | 107 | 4.915 | 4.913 | 0.002 | 89 | 494747 | 51.5 | |
| 74 2-Nitrophenol | 139 | 4.915 | 4.913 | 0.002 | 94 | 266605 | 52.7 | |
| 77 Benzoic acid | 105 | 4.986 | 5.001 | -0.016 | 86 | 714014 | 97.9 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.992 | 4.989 | 0.002 | 99 | 607705 | 51.1 | |
| 79 3,5-Dimethylphenol | 107 | 5.021 | 5.024 | -0.004 | 93 | 521784 | 51.9 | |
| 82 2,4-Dichlorophenol | 162 | 5.103 | 5.101 | 0.002 | 93 | 430385 | 51.4 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.174 | 5.171 | 0.002 | 86 | 455243 | 51.1 | |
| 87 Naphthalene | 128 | 5.250 | 5.248 | 0.002 | 97 | 1452647 | 52.2 | |
| 88 4-Chloroaniline | 127 | 5.285 | 5.283 | 0.001 | 85 | 662705 | 50.9 | |
| 91 Hexachlorobutadiene | 225 | 5.327 | 5.324 | 0.002 | 90 | 281342 | 51.3 | |
| 94 Caprolactam | 55 | 5.579 | 5.582 | -0.004 | 77 | 206597 | 49.8 | |
| 97 4-Chloro-3-methylphenol | 107 | 5.667 | 5.665 | 0.002 | 91 | 431436 | 51.5 | |
| 101 2-Methylnaphthalene | 142 | 5.814 | 5.812 | 0.002 | 86 | 939618 | 51.6 | |
| 103 1-Methylnaphthalene | 142 | 5.902 | 5.900 | 0.002 | 81 | 870735 | 51.1 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.938 | 5.940 | 0.002 | 83 | 289961 | 52.7 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.955 | 5.953 | 0.002 | 92 | 446108 | 50.9 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.049 | 6.052 | 0.002 | 89 | 312430 | 52.9 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.055 | 6.064 | -0.004 | 94 | 528548 | 51.1 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.079 | 6.081 | 0.002 | 93 | 327788 | 51.1 | |
| 112 1,1'-Biphenyl | 154 | 6.196 | 6.199 | 0.002 | 95 | 1120658 | 51.6 | |
| 114 2-Chloronaphthalene | 162 | 6.231 | 6.234 | 0.002 | 96 | 914473 | 51.0 | |
| 116 2-Nitroaniline | 65 | 6.319 | 6.323 | 0.001 | 87 | 276916 | 51.5 | |
| 119 Dimethyl phthalate | 163 | 6.437 | 6.440 | 0.002 | 98 | 989308 | 50.7 | |
| 120 1,3-Dinitrobenzene | 168 | 6.490 | 6.499 | -0.004 | 86 | 168893 | 52.4 | |
| 121 2,6-Dinitrotoluene | 165 | 6.508 | 6.511 | 0.002 | 91 | 231078 | 50.9 | |
| 122 Acenaphthylene | 152 | 6.584 | 6.587 | 0.002 | 91 | 1432927 | 51.8 | |
| 123 3-Nitroaniline | 138 | 6.660 | 6.669 | -0.004 | 97 | 293762 | 51.2 | |
| 124 Acenaphthene | 153 | 6.725 | 6.728 | 0.002 | 94 | 867001 | 50.9 | |
| 126 2,4-Dinitrophenol | 184 | 6.743 | 6.752 | -0.004 | 80 | 247093 | 91.8 | |
| 127 4-Nitrophenol | 109 | 6.784 | 6.793 | -0.004 | 90 | 311188 | 104.8 | |
| 130 2,4-Dinitrotoluene | 165 | 6.848 | 6.852 | 0.002 | 85 | 308377 | 52.1 | |
| 132 Dibenzofuran | 168 | 6.866 | 6.869 | 0.002 | 85 | 1227370 | 50.7 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.966 | 6.969 | 0.002 | 67 | 274484 | 52.6 | |
| 136 Hexadecane | 57 | 6.983 | 6.993 | -0.004 | 94 | 582586 | 51.8 | |
| 139 Diethyl phthalate | 149 | 7.019 | 7.022 | 0.002 | 97 | 976241 | 50.6 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.136 | 7.140 | 0.002 | 90 | 496979 | 50.8 | |
| 143 Fluorene | 166 | 7.160 | 7.163 | 0.002 | 84 | 1021490 | 51.2 | |
| 146 4-Nitroaniline | 138 | 7.183 | 7.187 | 0.002 | 85 | 282984 | 52.0 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.189 | 7.192 | -0.004 | 83 | 375384 | 102.1 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.236 | 7.239 | -0.004 | 60 | 771743 | 50.9 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.271 | 7.275 | 0.002 | 97 | 1110060 | 52.3 | |
| 152 Azobenzene | 77 | 7.271 | 7.275 | 0.002 | 98 | 1110060 | 51.7 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.365 | 7.369 | 0.002 | 89 | 230183 | 51.3 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.547 | 7.551 | -0.004 | 63 | 325212 | 51.1 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.618 | 7.621 | -0.004 | 89 | 391516 | 50.9 | |
| 167 Atrazine | 200 | 7.665 | 7.662 | 0.002 | 92 | 234630 | 52.1 | |
| 169 n-Octadecane | 85 | 7.753 | 7.751 | 0.002 | 96 | 284068 | 51.2 | |
| 171 Pentachlorophenol | 266 | 7.782 | 7.786 | -0.004 | 86 | 449353 | 101.8 | |
| 176 Phenanthrene | 178 | 7.976 | 7.974 | 0.002 | 97 | 1448571 | 51.3 | |
| 177 Anthracene | 178 | 8.018 | 8.015 | 0.002 | 97 | 1494868 | 51.8 | |
| 178 Carbazole | 167 | 8.147 | 8.150 | -0.004 | 82 | 1427778 | 51.8 | |
| 179 Alachlor | 188 | 8.217 | 8.215 | 0.002 | 98 | 206547 | 52.0 | |
| 181 Di-n-butyl phthalate | 149 | 8.376 | 8.373 | 0.002 | 100 | 1671442 | 52.3 | |
| 188 Fluoranthene | 202 | 9.093 | 9.090 | 0.002 | 98 | 1603771 | 51.6 | |
| 189 Benzidine | 184 | 9.234 | 9.231 | 0.002 | 99 | 1016364 | 55.5 | |
| 191 Pyrene | 202 | 9.375 | 9.372 | 0.002 | 97 | 1693682 | 51.6 | |
| 197 Famphur | 218 | 10.156 | 10.154 | 0.002 | 83 | 618073 | 54.1 | |
| 198 Butyl benzyl phthalate | 149 | 10.233 | 10.230 | 0.002 | 96 | 746152 | 51.9 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.325 | 11.323 | 0.001 | 95 | 956865 | 52.1 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.325 | 11.323 | 0.001 | 66 | 687431 | 51.6 | |
| 206 Benzo[a]anthracene | 228 | 11.361 | 11.358 | 0.002 | 89 | 1571796 | 50.4 | |
| 207 Chrysene | 228 | 11.443 | 11.446 | -0.004 | 93 | 1506728 | 50.9 | |
| 209 Di-n-octyl phthalate | 149 | 12.994 | 12.986 | 0.008 | 99 | 1527504 | 48.7 | |
| 211 Benzo[b]fluoranthene | 252 | 14.075 | 14.089 | -0.004 | 89 | 1534602 | 50.0 | |
| 212 Benzo[k]fluoranthene | 252 | 14.151 | 14.166 | -0.005 | 98 | 1787537 | 52.5 | |
| 214 Benzo[e]pyrene | 252 | 14.880 | 14.889 | 0.002 | 97 | 1400928 | 50.6 | |
| 215 Benzo[a]pyrene | 252 | 15.033 | 15.042 | 0.002 | 74 | 1649723 | 52.1 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.617 | 18.634 | -0.004 | 69 | 1423613 | 50.1 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.523 | 18.526 | -0.004 | 98 | 1393194 | 51.8 | |
| 223 Benzo[g,h,i]perylene | 276 | 19.275 | 19.293 | -0.004 | 93 | 1587936 | 51.1 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 102.0 | |
| S 226 Total Cresols | 108 | | | | 0 | | 102.0 | |

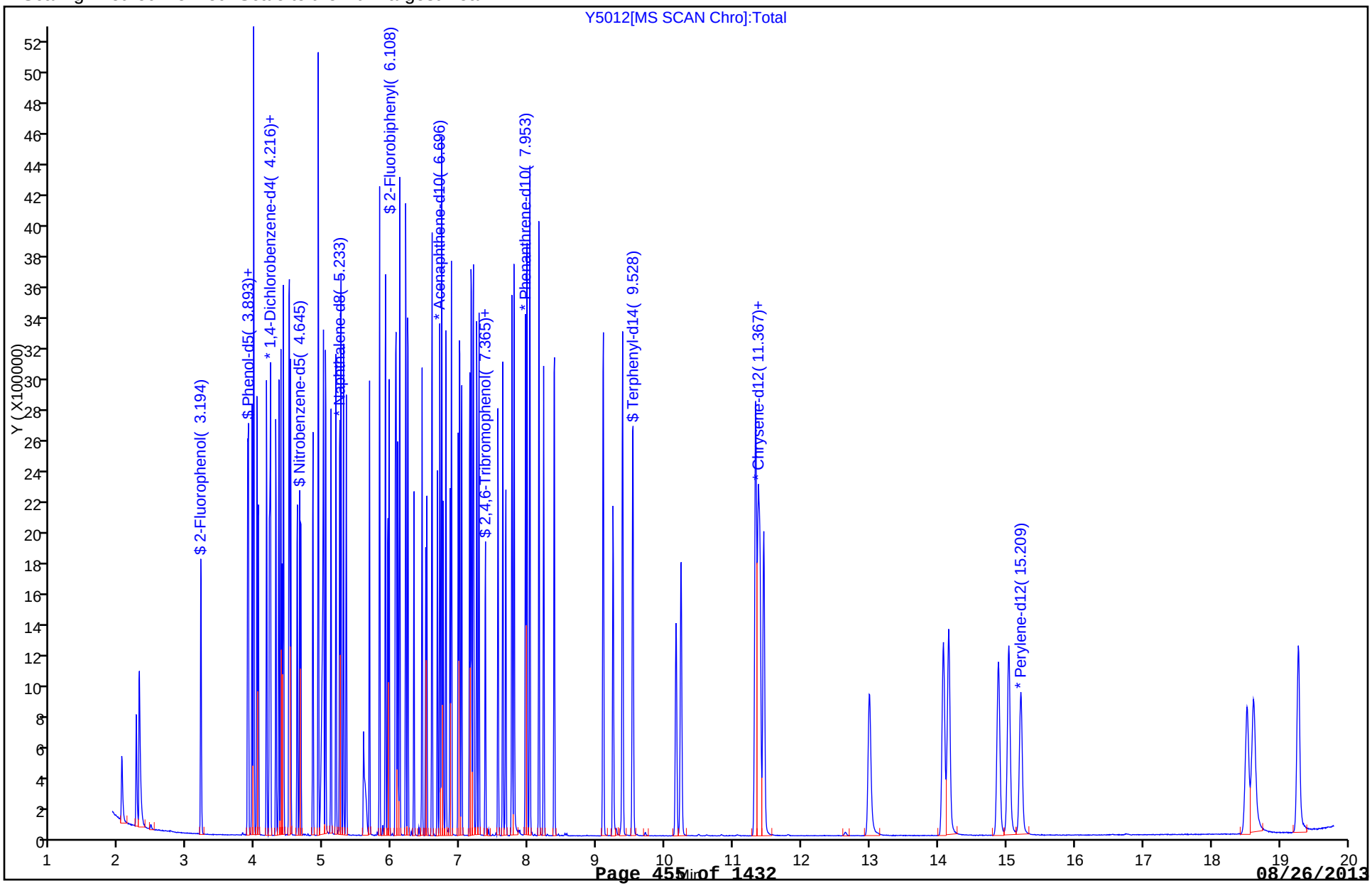
Report Date: 19-Jun-2013 10:52:13 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5012.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 09:14:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 6 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5013.D
Lims ID: IC HSLA120 Client ID:
Inject. Date: 17-Jun-2013 09:40:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: IC HSLA120
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 7
Lims Batch ID: 179033 Lims Sample ID: 7
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:15 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:49:59

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.203 | 4.202 | 0.001 | 94 | 288484 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.231 | 0.0 | 99 | 1095007 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.694 | 6.694 | 0.0 | 88 | 655120 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.952 | 7.951 | 0.001 | 93 | 1095712 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.395 | 11.388 | 0.007 | 80 | 1285038 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.214 | 15.201 | 0.013 | 83 | 1241710 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.199 | 3.191 | 0.007 | 90 | 1243873 | 118.4 | |
| $ 8 Phenol-d5 | 99 | 3.886 | 3.879 | 0.007 | 92 | 1509701 | 116.8 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.644 | 4.643 | 0.001 | 88 | 1308406 | 120.6 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.113 | 6.111 | 0.007 | 99 | 2419668 | 114.7 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.364 | 7.369 | 0.001 | 90 | 576851 | 126.7 | |
| $ 13 Terphenyl-d14 | 244 | 9.526 | 9.519 | 0.006 | 98 | 3100755 | 119.6 | |
| 27 1,4-Dioxane | 88 | 2.035 | 2.040 | -0.005 | 93 | 564299 | 117.1 | |
| 28 N-Nitrosodimethylamine | 74 | 2.253 | 2.246 | 0.007 | 93 | 841120 | 119.3 | |
| 29 Pyridine | 79 | 2.288 | 2.293 | -0.005 | 98 | 1443572 | 120.4 | |
| 40 Phenol | 94 | 3.898 | 3.890 | 0.007 | 97 | 1555445 | 116.0 | |
| 43 Aniline | 93 | 3.951 | 3.943 | 0.007 | 99 | 1967013 | 118.0 | |
| 44 Alpha Methyl Styrene | 118 | 3.968 | 3.967 | 0.001 | 94 | 1224574 | 114.1 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.974 | 3.973 | 0.001 | 98 | 1204713 | 114.1 | |
| 47 n-Decane | 43 | 4.021 | 4.014 | 0.007 | 88 | 1088123 | 116.9 | |
| 48 2-Chlorophenol | 128 | 4.039 | 4.037 | 0.001 | 96 | 1241171 | 117.9 | |
| 49 1,3-Dichlorobenzene | 146 | 4.162 | 4.155 | 0.007 | 97 | 1339203 | 117.0 | |
| 50 1,4-Dichlorobenzene | 146 | 4.215 | 4.214 | 0.001 | 93 | 1340488 | 115.5 | |
| 51 Benzyl alcohol | 108 | 4.297 | 4.296 | 0.001 | 91 | 831129 | 118.5 | |
| 52 1,2-Dichlorobenzene | 146 | 4.338 | 4.337 | 0.0 | 95 | 1286164 | 116.3 | |
| 54 2-Methylphenol | 108 | 4.368 | 4.366 | 0.001 | 95 | 1158963 | 116.9 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.385 | 4.384 | 0.0 | 93 | 1496347 | 116.6 | |
| 56 Indene | 116 | 4.409 | 4.402 | 0.007 | 73 | 2035432 | 117.0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.491 | 4.490 | 0.001 | 96 | 1193358 | 116.4 | |
| 59 4-Methylphenol | 108 | 4.491 | 4.490 | 0.001 | 96 | 1193358 | 116.4 | |
| 60 3 & 4 Methylphenol | 108 | 4.491 | 4.490 | 0.001 | 96 | 1193358 | 116.4 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.497 | 4.496 | 0.001 | 88 | 884522 | 117.9 | |
| 63 Acetophenone | 105 | 4.515 | 4.513 | 0.001 | 97 | 1658360 | 116.8 | |
| 66 Hexachloroethane | 117 | 4.609 | 4.607 | 0.001 | 91 | 546593 | 117.8 | |
| 67 Nitrobenzene | 77 | 4.662 | 4.660 | 0.001 | 86 | 1293339 | 119.1 | |
| 71 Isophorone | 82 | 4.838 | 4.836 | 0.001 | 98 | 2262046 | 118.6 | |
| 73 2,4-Dimethylphenol | 107 | 4.920 | 4.913 | 0.007 | 92 | 1139456 | 117.0 | |
| 74 2-Nitrophenol | 139 | 4.914 | 4.913 | 0.001 | 94 | 620994 | 121.0 | |
| 77 Benzoic acid | 105 | 5.014 | 5.001 | 0.012 | 90 | 1974964 | 259.9 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.996 | 4.989 | 0.006 | 98 | 1429338 | 118.7 | |
| 79 3,5-Dimethylphenol | 107 | 5.026 | 5.024 | 0.001 | 91 | 1211290 | 118.9 | |
| 82 2,4-Dichlorophenol | 162 | 5.102 | 5.101 | 0.001 | 95 | 1014540 | 119.6 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.179 | 5.171 | 0.007 | 88 | 1059331 | 117.2 | |
| 87 Naphthalene | 128 | 5.249 | 5.248 | 0.001 | 98 | 3234823 | 114.7 | |
| 88 4-Chloroaniline | 127 | 5.284 | 5.283 | 0.0 | 85 | 1547092 | 117.3 | |
| 91 Hexachlorobutadiene | 225 | 5.325 | 5.324 | 0.0 | 91 | 653904 | 117.8 | |
| 94 Caprolactam | 55 | 5.590 | 5.582 | 0.007 | 75 | 529872 | 125.9 | M |
| 97 4-Chloro-3-methylphenol | 107 | 5.666 | 5.665 | 0.001 | 93 | 1024005 | 120.6 | |
| 101 2-Methylnaphthalene | 142 | 5.813 | 5.812 | 0.001 | 86 | 2155846 | 116.8 | |
| 103 1-Methylnaphthalene | 142 | 5.901 | 5.900 | 0.001 | 81 | 2026883 | 117.4 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.937 | 5.940 | 0.0 | 86 | 755606 | 134.9 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.954 | 5.953 | 0.001 | 93 | 1037826 | 116.9 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.048 | 6.052 | 0.001 | 86 | 731787 | 121.5 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.060 | 6.064 | 0.001 | 95 | 1210092 | 114.9 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.083 | 6.081 | 0.006 | 95 | 790719 | 120.9 | |
| 112 1,1'-Biphenyl | 154 | 6.201 | 6.199 | 0.007 | 95 | 2549087 | 115.1 | |
| 114 2-Chloronaphthalene | 162 | 6.230 | 6.234 | 0.001 | 97 | 2098152 | 114.8 | |
| 116 2-Nitroaniline | 65 | 6.318 | 6.323 | 0.0 | 84 | 661853 | 120.7 | |
| 119 Dimethyl phthalate | 163 | 6.442 | 6.440 | 0.007 | 98 | 2307411 | 116.1 | |
| 120 1,3-Dinitrobenzene | 168 | 6.495 | 6.499 | 0.001 | 86 | 411891 | 125.4 | |
| 121 2,6-Dinitrotoluene | 165 | 6.506 | 6.511 | 0.0 | 87 | 561843 | 121.4 | |
| 122 Acenaphthylene | 152 | 6.583 | 6.587 | 0.001 | 92 | 3279847 | 116.4 | |
| 123 3-Nitroaniline | 138 | 6.665 | 6.669 | 0.001 | 97 | 702365 | 120.1 | |
| 124 Acenaphthene | 153 | 6.724 | 6.728 | 0.001 | 95 | 1995315 | 115.0 | |
| 126 2,4-Dinitrophenol | 184 | 6.747 | 6.752 | 0.0 | 82 | 708402 | 239.3 | |
| 127 4-Nitrophenol | 109 | 6.794 | 6.793 | 0.006 | 85 | 743399 | 245.6 | |
| 130 2,4-Dinitrotoluene | 165 | 6.853 | 6.852 | 0.007 | 92 | 737969 | 122.2 | |
| 132 Dibenzofuran | 168 | 6.871 | 6.869 | 0.007 | 85 | 2824722 | 114.5 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.971 | 6.969 | 0.007 | 66 | 657637 | 123.8 | |
| 136 Hexadecane | 57 | 6.988 | 6.993 | 0.001 | 93 | 1340020 | 116.8 | |
| 139 Diethyl phthalate | 149 | 7.018 | 7.022 | 0.001 | 97 | 2261950 | 115.0 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.135 | 7.140 | 0.001 | 92 | 1155818 | 116.0 | |
| 143 Fluorene | 166 | 7.159 | 7.163 | 0.001 | 84 | 2336672 | 115.0 | |
| 146 4-Nitroaniline | 138 | 7.188 | 7.187 | 0.007 | 78 | 664675 | 119.9 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.194 | 7.192 | 0.001 | 77 | 929779 | 245.8 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.241 | 7.239 | 0.001 | 58 | 1798262 | 117.9 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.270 | 7.275 | 0.001 | 98 | 2573596 | 118.9 | |
| 152 Azobenzene | 77 | 7.270 | 7.275 | 0.001 | 98 | 2573596 | 117.6 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.364 | 7.369 | 0.001 | 90 | 576529 | 126.2 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.552 | 7.551 | 0.001 | 59 | 773673 | 120.9 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.623 | 7.621 | 0.001 | 89 | 930888 | 120.3 | |
| 167 Atrazine | 200 | 7.664 | 7.662 | 0.001 | 91 | 537217 | 118.5 | |
| 169 n-Octadecane | 85 | 7.752 | 7.751 | 0.001 | 96 | 670982 | 120.3 | |
| 171 Pentachlorophenol | 266 | 7.787 | 7.786 | 0.001 | 89 | 1127300 | 247.9 | |
| 176 Phenanthrene | 178 | 7.975 | 7.974 | 0.001 | 98 | 3277310 | 115.4 | |
| 177 Anthracene | 178 | 8.016 | 8.015 | 0.0 | 98 | 3389613 | 116.8 | |
| 178 Carbazole | 167 | 8.152 | 8.150 | 0.001 | 82 | 3238992 | 116.9 | |
| 179 Alachlor | 188 | 8.222 | 8.215 | 0.007 | 97 | 488935 | 122.4 | |
| 181 Di-n-butyl phthalate | 149 | 8.375 | 8.373 | 0.001 | 100 | 3835541 | 119.3 | |
| 188 Fluoranthene | 202 | 9.092 | 9.090 | 0.001 | 98 | 3730454 | 119.4 | |
| 189 Benzidine | 184 | 9.239 | 9.231 | 0.006 | 99 | 2259040 | 121.5 | |
| 191 Pyrene | 202 | 9.374 | 9.372 | 0.001 | 95 | 3904348 | 117.2 | |
| 197 Famphur | 218 | 10.161 | 10.154 | 0.007 | 82 | 1405962 | 121.3 | |
| 198 Butyl benzyl phthalate | 149 | 10.231 | 10.230 | 0.0 | 96 | 1815962 | 124.5 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.324 | 11.323 | 0.0 | 96 | 2350408 | 126.0 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.330 | 11.323 | 0.006 | 65 | 1673035 | 123.7 | |
| 206 Benzo[a]anthracene | 228 | 11.365 | 11.358 | 0.006 | 89 | 3814736 | 120.6 | |
| 207 Chrysene | 228 | 11.454 | 11.446 | 0.007 | 93 | 3578845 | 119.0 | |
| 209 Di-n-octyl phthalate | 149 | 12.993 | 12.986 | 0.007 | 99 | 4030924 | 123.9 | |
| 211 Benzo[b]fluoranthene | 252 | 14.086 | 14.089 | 0.007 | 93 | 3924811 | 125.9 | |
| 212 Benzo[k]fluoranthene | 252 | 14.168 | 14.166 | 0.012 | 98 | 4264140 | 123.5 | |
| 214 Benzo[e]pyrene | 252 | 14.897 | 14.889 | 0.019 | 97 | 3468690 | 123.6 | |
| 215 Benzo[a]pyrene | 252 | 15.049 | 15.042 | 0.018 | 75 | 4077217 | 127.0 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.639 | 18.634 | 0.018 | 76 | 3832208 | 132.8 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.545 | 18.526 | 0.018 | 95 | 3579609 | 131.0 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.291 | 19.293 | 0.012 | 94 | 3967266 | 125.8 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 233.2 | |
| S 226 Total Cresols | 108 | | | | 0 | | 233.2 | |

QC Flag Legend

Review Flags
M - Manually Integrated

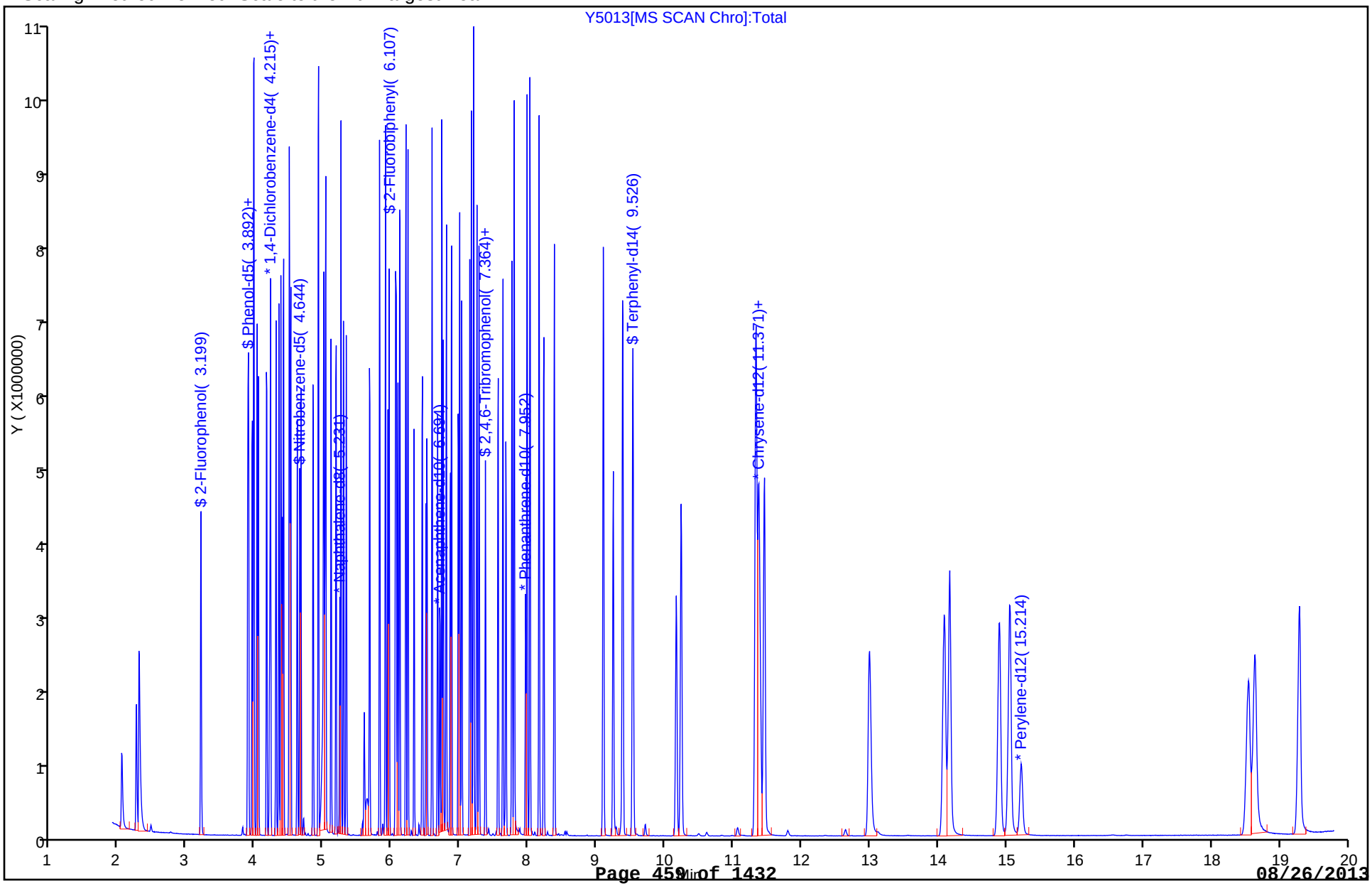
Report Date: 19-Jun-2013 10:52:15 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5013.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 09:40:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 7 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

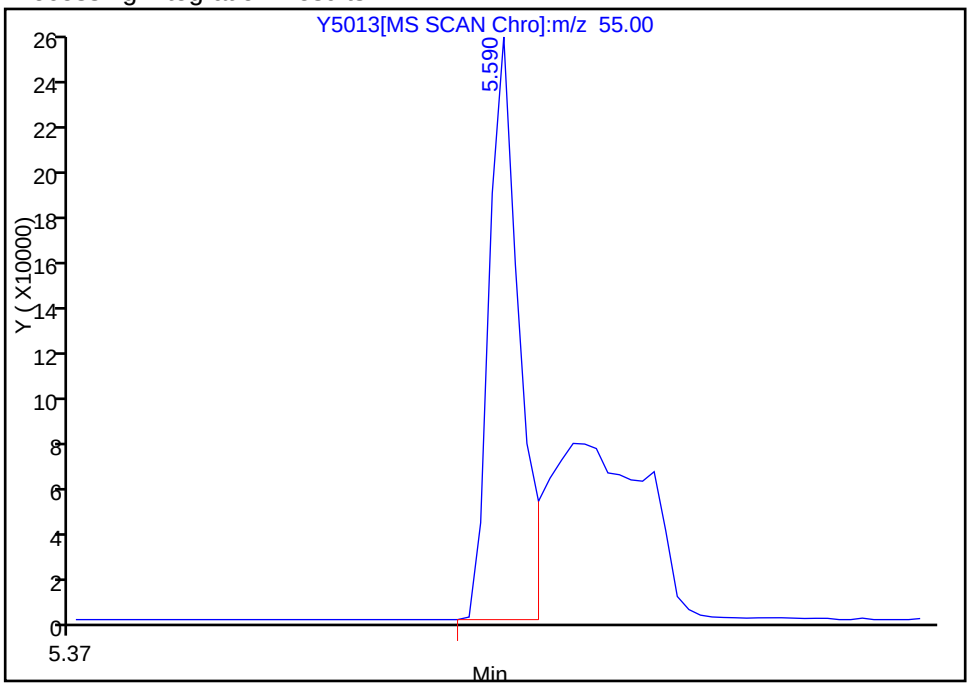
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5013.D | | |
| Injection Date: | 17-Jun-2013 09:40:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 7 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

94 Caprolactam, Signal: 1, m/z: 55.0 Type: quant, RT: 5.58

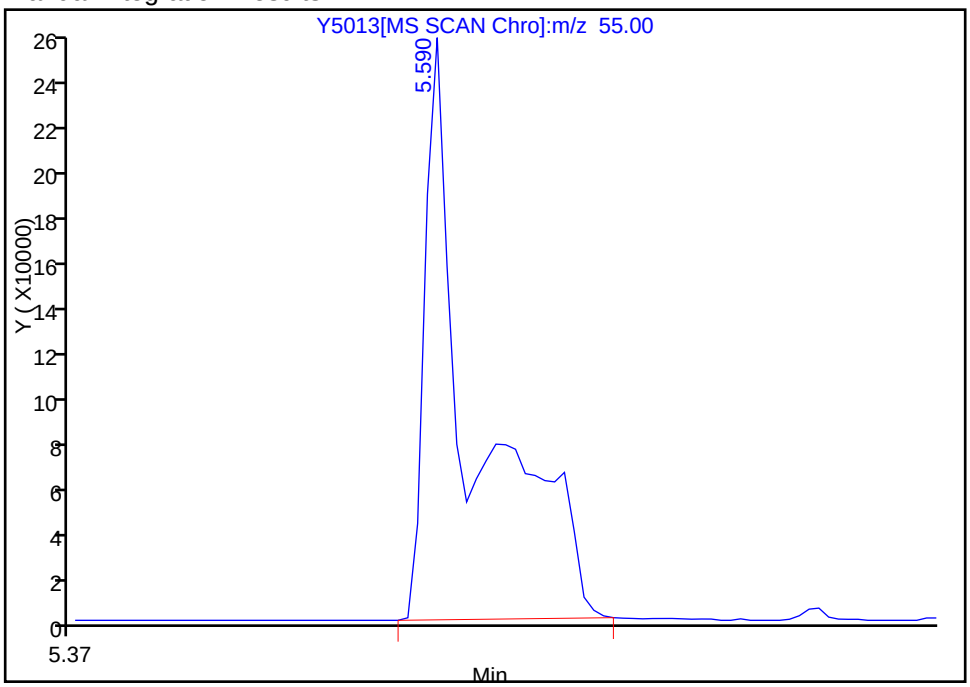
Processing Integration Results

RT: 5.59
Response: 274111
Amount: 79.942319




Manual Integration Results

RT: 5.59
Response: 529872
Amount: 125.9232




Reviewer: hoffmanm, 17-Jun-2013 11:49:59
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

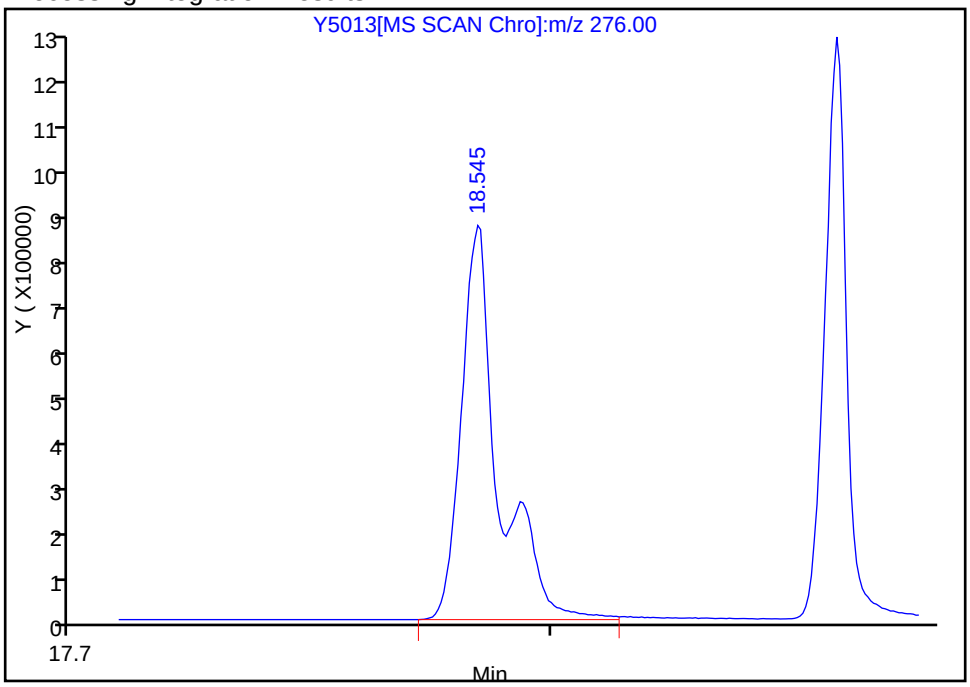
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5013.D | | |
| Injection Date: | 17-Jun-2013 09:40:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 7 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.53

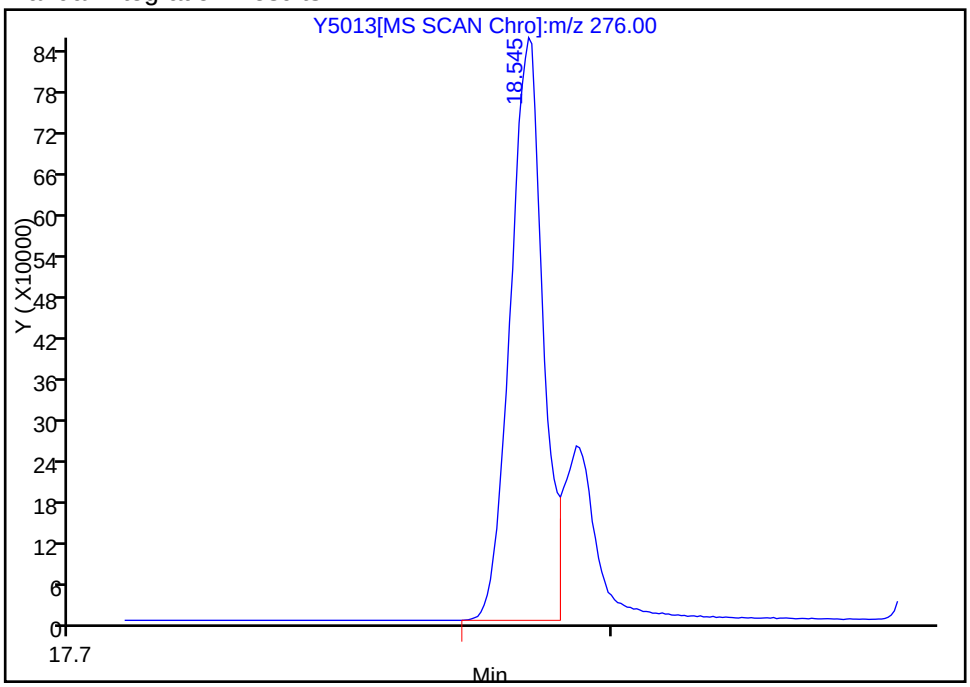
Processing Integration Results

RT: 18.55
Response: 4605074
Amount: 124.4708




Manual Integration Results

RT: 18.55
Response: 3579609
Amount: 131.0261




Reviewer: hoffmanm, 17-Jun-2013 11:49:59
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5014.D
Lims ID: IC HSLA160 Client ID:
Inject. Date: 17-Jun-2013 10:06:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: IC HSLA160
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 8
Lims Batch ID: 179033 Lims Sample ID: 8
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:17 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:51:00

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.205 | 4.202 | 0.003 | 93 | 286741 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.233 | 5.231 | 0.002 | 99 | 1101298 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.696 | 6.694 | 0.002 | 91 | 652491 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.954 | 7.951 | 0.003 | 96 | 1086987 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.397 | 11.388 | 0.009 | 79 | 1260460 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.221 | 15.201 | 0.020 | 87 | 1224786 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.200 | 3.191 | 0.008 | 90 | 1612574 | 154.4 | |
| $ 8 Phenol-d5 | 99 | 3.888 | 3.879 | 0.009 | 92 | 1937975 | 150.9 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.646 | 4.643 | 0.003 | 88 | 1692841 | 155.2 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.109 | 6.111 | 0.003 | 99 | 3074345 | 146.3 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.366 | 7.369 | 0.003 | 90 | 768235 | 169.4 | |
| $ 13 Terphenyl-d14 | 244 | 9.528 | 9.519 | 0.008 | 98 | 4019385 | 158.0 | |
| 27 1,4-Dioxane | 88 | 2.037 | 2.040 | -0.003 | 93 | 715575 | 149.4 | |
| 28 N-Nitrosodimethylamine | 74 | 2.254 | 2.246 | 0.008 | 90 | 1104184 | 157.6 | |
| 29 Pyridine | 79 | 2.290 | 2.293 | -0.003 | 96 | 1889512 | 158.5 | |
| 40 Phenol | 94 | 3.894 | 3.890 | 0.003 | 99 | 2015221 | 151.2 | |
| 43 Aniline | 93 | 3.952 | 3.943 | 0.008 | 99 | 2539359 | 153.2 | |
| 44 Alpha Methyl Styrene | 118 | 3.970 | 3.967 | 0.003 | 85 | 1575371 | 147.6 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.976 | 3.973 | 0.003 | 94 | 1521867 | 145.0 | |
| 47 n-Decane | 43 | 4.023 | 4.014 | 0.009 | 88 | 1399564 | 151.3 | |
| 48 2-Chlorophenol | 128 | 4.040 | 4.037 | 0.002 | 96 | 1608048 | 153.7 | |
| 49 1,3-Dichlorobenzene | 146 | 4.158 | 4.155 | 0.003 | 97 | 1711818 | 150.5 | |
| 50 1,4-Dichlorobenzene | 146 | 4.217 | 4.214 | 0.003 | 93 | 1741854 | 150.9 | |
| 51 Benzyl alcohol | 108 | 4.299 | 4.296 | 0.003 | 91 | 1086267 | 155.9 | |
| 52 1,2-Dichlorobenzene | 146 | 4.340 | 4.337 | 0.002 | 95 | 1664077 | 151.4 | |
| 54 2-Methylphenol | 108 | 4.369 | 4.366 | 0.002 | 94 | 1505503 | 152.7 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.387 | 4.384 | 0.002 | 93 | 1952447 | 153.1 | |
| 56 Indene | 116 | 4.405 | 4.402 | 0.003 | 73 | 2608701 | 150.9 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.493 | 4.490 | 0.003 | 96 | 1539359 | 151.0 | |
| 59 4-Methylphenol | 108 | 4.493 | 4.490 | 0.003 | 96 | 1539359 | 151.0 | |
| 60 3 & 4 Methylphenol | 108 | 4.493 | 4.490 | 0.003 | 96 | 1539359 | 151.0 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.499 | 4.496 | 0.003 | 86 | 1135804 | 152.4 | |
| 63 Acetophenone | 105 | 4.516 | 4.513 | 0.002 | 98 | 2131660 | 151.1 | |
| 66 Hexachloroethane | 117 | 4.610 | 4.607 | 0.002 | 91 | 707371 | 153.3 | |
| 67 Nitrobenzene | 77 | 4.663 | 4.660 | 0.002 | 87 | 1669949 | 152.9 | |
| 71 Isophorone | 82 | 4.840 | 4.836 | 0.003 | 98 | 2937863 | 153.2 | |
| 73 2,4-Dimethylphenol | 107 | 4.922 | 4.913 | 0.009 | 93 | 1458141 | 148.9 | |
| 74 2-Nitrophenol | 139 | 4.916 | 4.913 | 0.003 | 93 | 797567 | 154.6 | |
| 77 Benzoic acid | 105 | 5.028 | 5.001 | 0.026 | 61 | 2530152 | 329.8 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.998 | 4.989 | 0.008 | 98 | 1825735 | 150.7 | |
| 79 3,5-Dimethylphenol | 107 | 5.028 | 5.024 | 0.003 | 87 | 1529016 | 149.2 | |
| 82 2,4-Dichlorophenol | 162 | 5.104 | 5.101 | 0.003 | 94 | 1326326 | 155.4 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.174 | 5.171 | 0.002 | 86 | 1366578 | 150.4 | |
| 87 Naphthalene | 128 | 5.251 | 5.248 | 0.003 | 98 | 4122321 | 145.3 | |
| 88 4-Chloroaniline | 127 | 5.286 | 5.283 | 0.002 | 85 | 2024180 | 152.6 | |
| 91 Hexachlorobutadiene | 225 | 5.327 | 5.324 | 0.002 | 89 | 837206 | 149.9 | |
| 94 Caprolactam | 55 | 5.592 | 5.582 | 0.009 | 78 | 699605 | 165.3 | M |
| 97 4-Chloro-3-methylphenol | 107 | 5.668 | 5.665 | 0.003 | 93 | 1311446 | 153.6 | |
| 101 2-Methylnaphthalene | 142 | 5.815 | 5.812 | 0.003 | 84 | 2743206 | 147.7 | |
| 103 1-Methylnaphthalene | 142 | 5.903 | 5.900 | 0.003 | 81 | 2570948 | 148.1 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.938 | 5.940 | 0.002 | 81 | 1002517 | 179.7 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.956 | 5.953 | 0.003 | 92 | 1335350 | 149.5 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.050 | 6.052 | 0.003 | 88 | 947234 | 158.0 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.062 | 6.064 | 0.003 | 94 | 1562021 | 148.9 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.085 | 6.081 | 0.008 | 95 | 1020959 | 156.7 | |
| 112 1,1'-Biphenyl | 154 | 6.203 | 6.199 | 0.009 | 95 | 3213927 | 145.7 | |
| 114 2-Chloronaphthalene | 162 | 6.232 | 6.234 | 0.003 | 96 | 2685940 | 147.5 | |
| 116 2-Nitroaniline | 65 | 6.320 | 6.323 | 0.002 | 84 | 862615 | 157.9 | |
| 119 Dimethyl phthalate | 163 | 6.444 | 6.440 | 0.009 | 98 | 2983777 | 150.8 | |
| 120 1,3-Dinitrobenzene | 168 | 6.496 | 6.499 | 0.002 | 86 | 543738 | 166.2 | |
| 121 2,6-Dinitrotoluene | 165 | 6.514 | 6.511 | 0.008 | 90 | 724427 | 157.2 | |
| 122 Acenaphthylene | 152 | 6.585 | 6.587 | 0.003 | 92 | 4099484 | 146.1 | |
| 123 3-Nitroaniline | 138 | 6.667 | 6.669 | 0.003 | 96 | 917073 | 157.5 | |
| 124 Acenaphthene | 153 | 6.726 | 6.728 | 0.003 | 94 | 2538038 | 146.9 | |
| 126 2,4-Dinitrophenol | 184 | 6.749 | 6.752 | 0.002 | 82 | 979082 | 328.1 | |
| 127 4-Nitrophenol | 109 | 6.796 | 6.793 | 0.008 | 88 | 955442 | 316.9 | |
| 130 2,4-Dinitrotoluene | 165 | 6.855 | 6.852 | 0.009 | 91 | 955175 | 158.9 | |
| 132 Dibenzofuran | 168 | 6.872 | 6.869 | 0.008 | 85 | 3554072 | 144.7 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.966 | 6.969 | 0.002 | 69 | 853090 | 161.2 | |
| 136 Hexadecane | 57 | 6.990 | 6.993 | 0.003 | 93 | 1720967 | 150.6 | |
| 139 Diethyl phthalate | 149 | 7.019 | 7.022 | 0.002 | 97 | 2908077 | 148.4 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.137 | 7.140 | 0.003 | 91 | 1488940 | 150.0 | |
| 143 Fluorene | 166 | 7.160 | 7.163 | 0.002 | 84 | 2989231 | 147.7 | |
| 146 4-Nitroaniline | 138 | 7.196 | 7.187 | 0.015 | 83 | 847880 | 153.6 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.201 | 7.192 | 0.008 | 88 | 1207796 | 320.6 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.243 | 7.239 | 0.003 | 59 | 2308303 | 152.6 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.272 | 7.275 | 0.003 | 98 | 3274708 | 151.9 | |
| 152 Azobenzene | 77 | 7.272 | 7.275 | 0.003 | 99 | 3274708 | 150.2 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.366 | 7.369 | 0.003 | 90 | 767219 | 168.6 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.554 | 7.551 | 0.003 | 59 | 1001322 | 157.8 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.624 | 7.621 | 0.002 | 88 | 1205058 | 157.0 | |
| 167 Atrazine | 200 | 7.666 | 7.662 | 0.003 | 91 | 679813 | 151.2 | |
| 169 n-Octadecane | 85 | 7.754 | 7.751 | 0.003 | 96 | 865650 | 156.4 | |
| 171 Pentachlorophenol | 266 | 7.789 | 7.786 | 0.003 | 87 | 1460855 | 322.5 | |
| 176 Phenanthrene | 178 | 7.977 | 7.974 | 0.003 | 98 | 4143550 | 147.1 | |
| 177 Anthracene | 178 | 8.018 | 8.015 | 0.002 | 98 | 4259462 | 147.9 | |
| 178 Carbazole | 167 | 8.153 | 8.150 | 0.002 | 82 | 4095252 | 149.0 | |
| 179 Alachlor | 188 | 8.224 | 8.215 | 0.009 | 97 | 618431 | 156.0 | |
| 181 Di-n-butyl phthalate | 149 | 8.377 | 8.373 | 0.003 | 100 | 4838184 | 151.7 | |
| 188 Fluoranthene | 202 | 9.093 | 9.090 | 0.002 | 98 | 4752445 | 153.4 | |
| 189 Benzidine | 184 | 9.240 | 9.231 | 0.008 | 99 | 2819098 | 154.5 | |
| 191 Pyrene | 202 | 9.381 | 9.372 | 0.008 | 96 | 4978023 | 152.3 | |
| 197 Famphur | 218 | 10.163 | 10.154 | 0.009 | 83 | 1723931 | 151.7 | |
| 198 Butyl benzyl phthalate | 149 | 10.233 | 10.230 | 0.002 | 96 | 2355146 | 164.6 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.326 | 11.323 | 0.002 | 96 | 3052779 | 166.9 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.332 | 11.323 | 0.008 | 65 | 2152744 | 162.2 | |
| 206 Benzo[a]anthracene | 228 | 11.373 | 11.358 | 0.014 | 89 | 4919357 | 158.6 | |
| 207 Chrysene | 228 | 11.455 | 11.446 | 0.008 | 94 | 4650399 | 157.7 | |
| 209 Di-n-octyl phthalate | 149 | 12.995 | 12.986 | 0.009 | 99 | 5324142 | 166.2 | |
| 211 Benzo[b]fluoranthene | 252 | 14.093 | 14.089 | 0.014 | 91 | 5215827 | 169.7 | |
| 212 Benzo[k]fluoranthene | 252 | 14.176 | 14.166 | 0.020 | 89 | 5470736 | 160.7 | |
| 214 Benzo[e]pyrene | 252 | 14.898 | 14.889 | 0.020 | 96 | 4559779 | 164.7 | |
| 215 Benzo[a]pyrene | 252 | 15.057 | 15.042 | 0.026 | 75 | 5307628 | 167.6 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.647 | 18.634 | 0.026 | 71 | 5070619 | 178.2 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.553 | 18.526 | 0.026 | 95 | 4698412 | 175.3 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.299 | 19.293 | 0.020 | 94 | 5230732 | 168.2 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 303.8 | |
| S 226 Total Cresols | 108 | | | | 0 | | 303.8 | |

QC Flag Legend

Review Flags
M - Manually Integrated

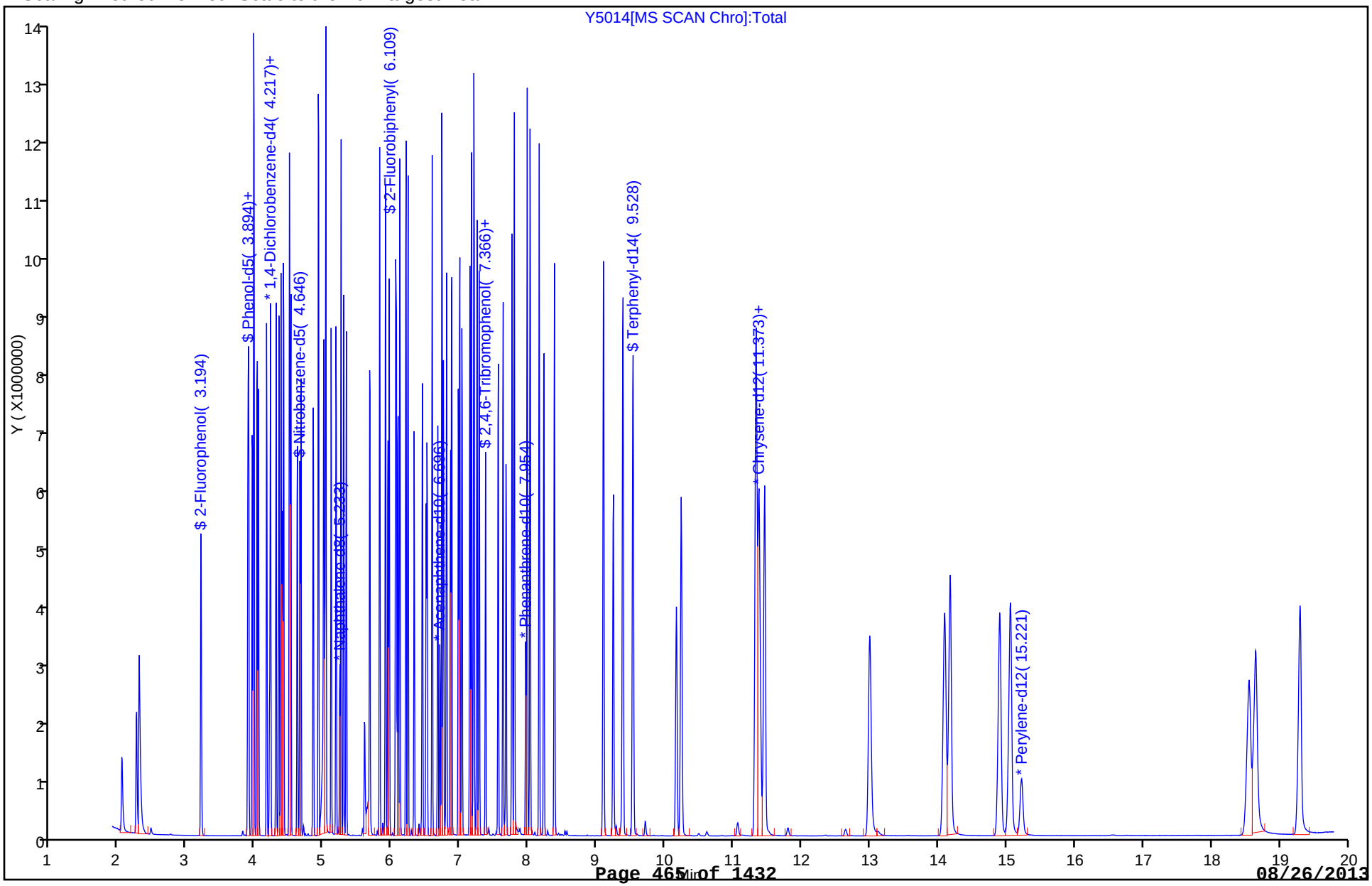
Report Date: 19-Jun-2013 10:52:17 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5014.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 10:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 8 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

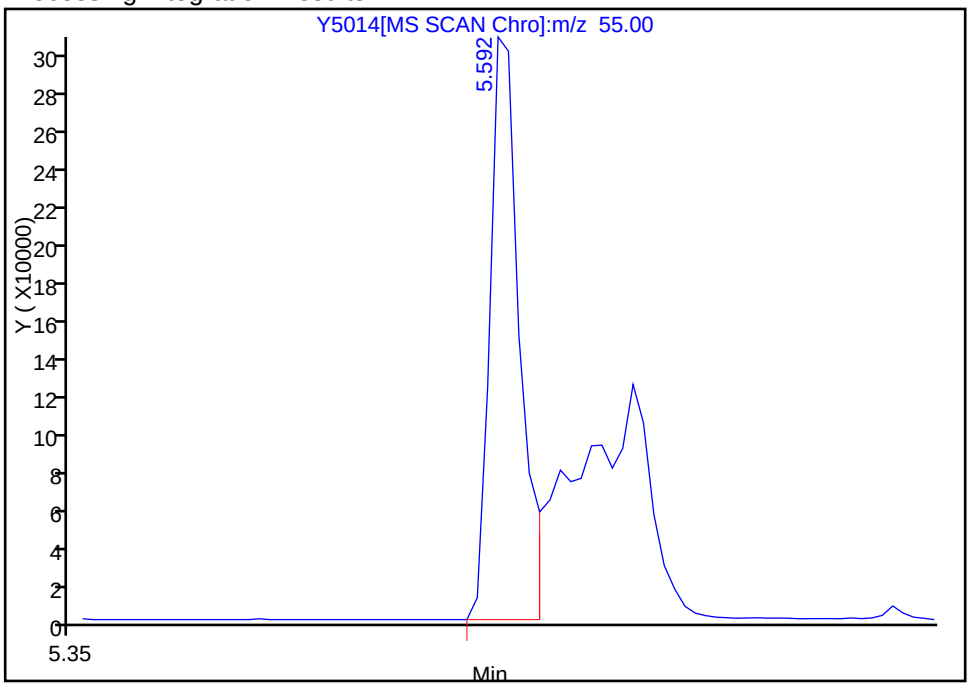
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5014.D | | |
| Injection Date: | 17-Jun-2013 10:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 8 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

94 Caprolactam, Signal: 1, m/z: 55.0 Type: quant, RT: 5.58

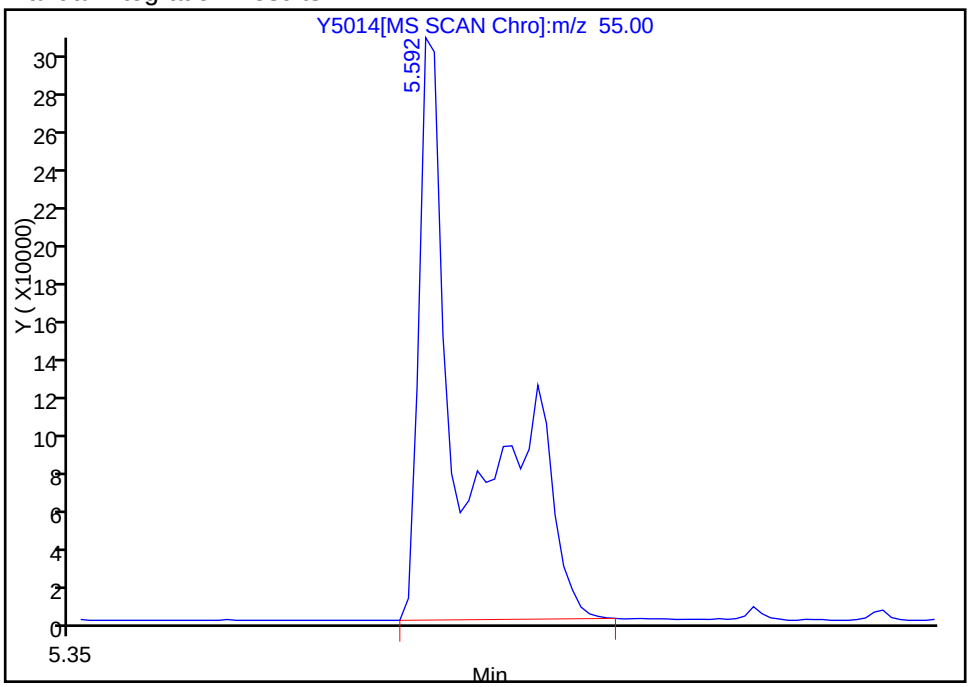
Processing Integration Results

RT: 5.59
Response: 359132
Amount: 96.631583




Manual Integration Results

RT: 5.59
Response: 699605
Amount: 165.3103




Reviewer: hoffmanm, 17-Jun-2013 11:51:00
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

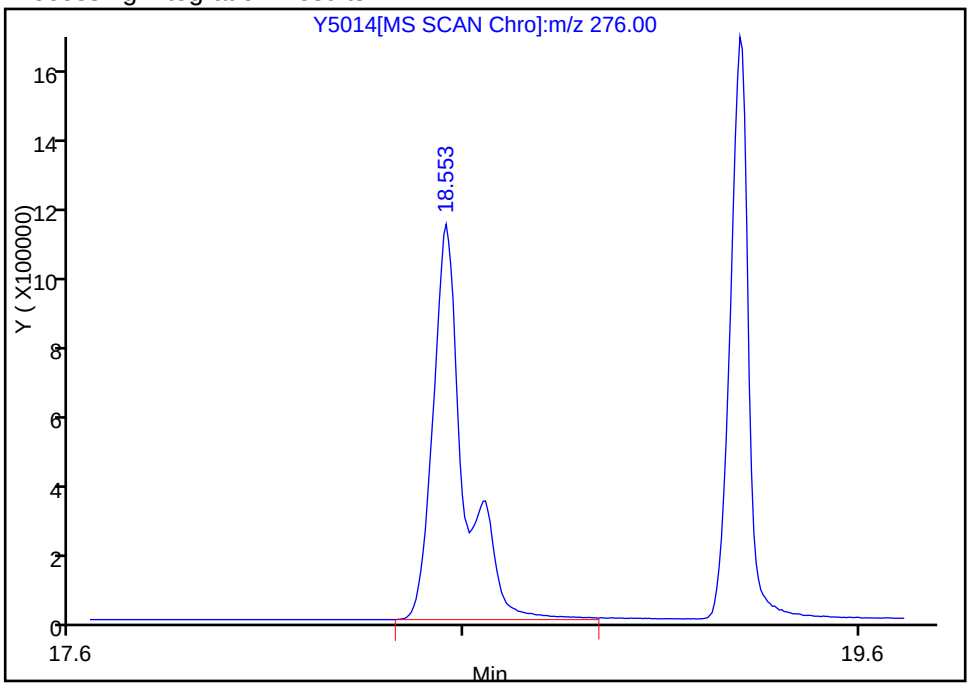
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5014.D | | |
| Injection Date: | 17-Jun-2013 10:06:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 8 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.53

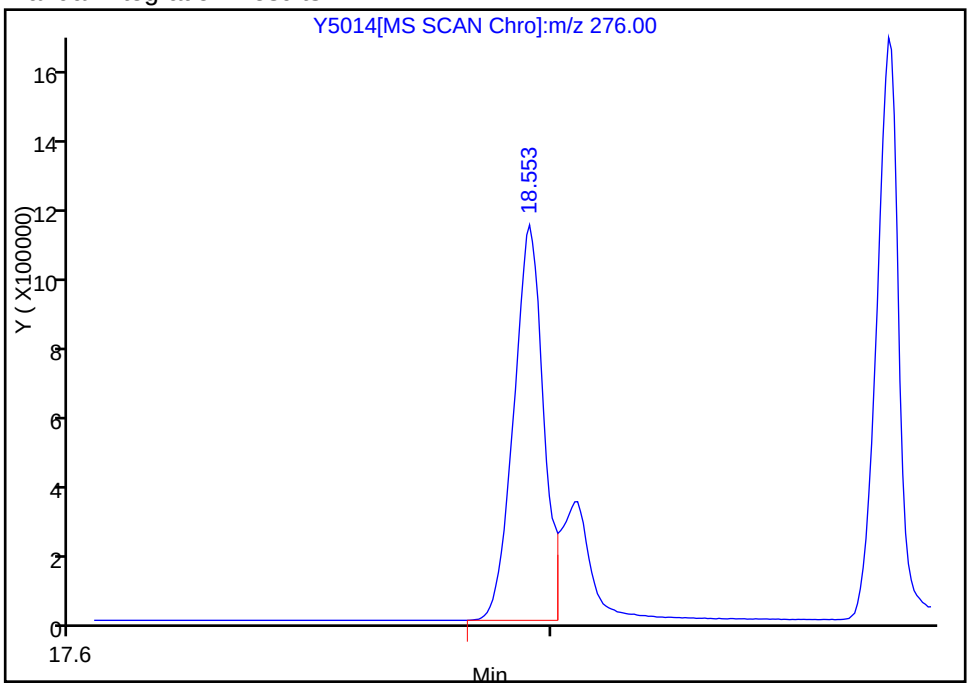
Processing Integration Results

RT: 18.55
Response: 6084345
Amount: 169.8937




Manual Integration Results

RT: 18.55
Response: 4698412
Amount: 175.3316




Reviewer: hoffmanm, 17-Jun-2013 11:51:00
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Lims ID: IC HSLA200 Client ID:
Inject. Date: 17-Jun-2013 10:33:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: IC HSLA200
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 9
Lims Batch ID: 179033 Lims Sample ID: 9
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:19 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 11:53:38

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.200 | 4.202 | -0.002 | 97 | 279686 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.234 | 5.231 | 0.003 | 99 | 1080277 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.697 | 6.694 | 0.003 | 90 | 631388 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.954 | 7.951 | 0.003 | 96 | 1079668 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.397 | 11.388 | 0.009 | 80 | 1248985 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.222 | 15.201 | 0.021 | 84 | 1220395 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.195 | 3.191 | 0.003 | 91 | 1945605 | 191.0 | |
| $ 8 Phenol-d5 | 99 | 3.888 | 3.879 | 0.009 | 92 | 2331275 | 186.1 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.646 | 4.643 | 0.003 | 88 | 2043669 | 191.0 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.109 | 6.111 | 0.003 | 99 | 3636354 | 178.8 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.367 | 7.369 | 0.004 | 91 | 935566 | 213.2 | |
| $ 13 Terphenyl-d14 | 244 | 9.529 | 9.519 | 0.009 | 98 | 4804904 | 190.7 | |
| 27 1,4-Dioxane | 88 | 2.038 | 2.040 | -0.002 | 92 | 875556 | 187.4 | |
| 28 N-Nitrosodimethylamine | 74 | 2.249 | 2.246 | 0.003 | 92 | 1330173 | 194.6 | |
| 29 Pyridine | 79 | 2.290 | 2.293 | -0.003 | 98 | 2275498 | 195.7 | |
| 40 Phenol | 94 | 3.900 | 3.890 | 0.009 | 97 | 2395513 | 184.2 | |
| 43 Aniline | 93 | 3.953 | 3.943 | 0.009 | 99 | 3091246 | 191.2 | |
| 44 Alpha Methyl Styrene | 118 | 3.971 | 3.967 | 0.004 | 90 | 1857621 | 178.5 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.977 | 3.973 | 0.004 | 94 | 1821472 | 177.9 | |
| 47 n-Decane | 43 | 4.018 | 4.014 | 0.004 | 89 | 1689621 | 187.2 | |
| 48 2-Chlorophenol | 128 | 4.041 | 4.037 | 0.003 | 96 | 1944890 | 190.5 | |
| 49 1,3-Dichlorobenzene | 146 | 4.159 | 4.155 | 0.004 | 97 | 2041056 | 183.9 | |
| 50 1,4-Dichlorobenzene | 146 | 4.217 | 4.214 | 0.003 | 93 | 2063287 | 183.3 | |
| 51 Benzyl alcohol | 108 | 4.300 | 4.296 | 0.004 | 92 | 1310107 | 192.7 | |
| 52 1,2-Dichlorobenzene | 146 | 4.341 | 4.337 | 0.003 | 95 | 2009398 | 187.4 | |
| 54 2-Methylphenol | 108 | 4.370 | 4.366 | 0.003 | 95 | 1813096 | 188.6 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.388 | 4.384 | 0.003 | 93 | 2342561 | 188.3 | |
| 56 Indene | 116 | 4.405 | 4.402 | 0.003 | 73 | 3104683 | 184.1 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.494 | 4.490 | 0.004 | 97 | 1823361 | 183.4 | |
| 59 4-Methylphenol | 108 | 4.494 | 4.490 | 0.004 | 97 | 1823361 | 183.4 | |
| 60 3 & 4 Methylphenol | 108 | 4.494 | 4.490 | 0.004 | 97 | 1823361 | 183.4 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.505 | 4.496 | 0.009 | 86 | 1364909 | 187.7 | |
| 63 Acetophenone | 105 | 4.517 | 4.513 | 0.003 | 98 | 2545033 | 184.9 | |
| 66 Hexachloroethane | 117 | 4.605 | 4.607 | -0.003 | 93 | 847256 | 188.3 | |
| 67 Nitrobenzene | 77 | 4.664 | 4.660 | 0.003 | 87 | 2002920 | 186.9 | |
| 71 Isophorone | 82 | 4.846 | 4.836 | 0.009 | 97 | 3532293 | 187.8 | |
| 73 2,4-Dimethylphenol | 107 | 4.923 | 4.913 | 0.010 | 93 | 1730460 | 180.2 | |
| 74 2-Nitrophenol | 139 | 4.917 | 4.913 | 0.004 | 93 | 948398 | 187.4 | |
| 77 Benzoic acid | 105 | 5.040 | 5.001 | 0.038 | 89 | 3121025 | 413.6 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.999 | 4.989 | 0.009 | 99 | 2189186 | 184.3 | |
| 79 3,5-Dimethylphenol | 107 | 5.028 | 5.024 | 0.003 | 88 | 1833522 | 182.4 | |
| 82 2,4-Dichlorophenol | 162 | 5.105 | 5.101 | 0.004 | 95 | 1577869 | 188.5 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.175 | 5.171 | 0.003 | 86 | 1641784 | 184.2 | |
| 87 Naphthalene | 128 | 5.252 | 5.248 | 0.004 | 98 | 4759412 | 171.0 | |
| 88 4-Chloroaniline | 127 | 5.287 | 5.283 | 0.003 | 85 | 2411544 | 185.3 | |
| 91 Hexachlorobutadiene | 225 | 5.328 | 5.324 | 0.003 | 90 | 998389 | 182.3 | |
| 94 Caprolactam | 55 | 5.598 | 5.582 | 0.015 | 79 | 850749 | 204.9 | M |
| 97 4-Chloro-3-methylphenol | 107 | 5.675 | 5.665 | 0.010 | 92 | 1572228 | 187.7 | |
| 101 2-Methylnaphthalene | 142 | 5.816 | 5.812 | 0.004 | 86 | 3244626 | 178.1 | |
| 103 1-Methylnaphthalene | 142 | 5.904 | 5.900 | 0.004 | 82 | 3030760 | 178.0 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.939 | 5.940 | 0.003 | 84 | 1210348 | 224.2 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.957 | 5.953 | 0.004 | 93 | 1585225 | 181.0 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.051 | 6.052 | 0.004 | 87 | 1106947 | 190.8 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.062 | 6.064 | 0.003 | 95 | 1858359 | 183.1 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.086 | 6.081 | 0.009 | 95 | 1220630 | 193.6 | |
| 112 1,1'-Biphenyl | 154 | 6.203 | 6.199 | 0.009 | 96 | 3760788 | 176.2 | |
| 114 2-Chloronaphthalene | 162 | 6.233 | 6.234 | 0.004 | 97 | 3181041 | 180.5 | |
| 116 2-Nitroaniline | 65 | 6.321 | 6.323 | 0.003 | 85 | 1051682 | 199.0 | |
| 119 Dimethyl phthalate | 163 | 6.444 | 6.440 | 0.009 | 98 | 3590310 | 187.5 | |
| 120 1,3-Dinitrobenzene | 168 | 6.497 | 6.499 | 0.003 | 86 | 673670 | 212.8 | |
| 121 2,6-Dinitrotoluene | 165 | 6.515 | 6.511 | 0.009 | 91 | 872182 | 195.6 | |
| 122 Acenaphthylene | 152 | 6.585 | 6.587 | 0.003 | 91 | 4848210 | 178.6 | |
| 123 3-Nitroaniline | 138 | 6.668 | 6.669 | 0.004 | 97 | 1126193 | 199.8 | |
| 124 Acenaphthene | 153 | 6.726 | 6.728 | 0.003 | 95 | 2985582 | 178.5 | |
| 126 2,4-Dinitrophenol | 184 | 6.756 | 6.752 | 0.009 | 85 | 1205610 | 414.7 | |
| 127 4-Nitrophenol | 109 | 6.803 | 6.793 | 0.015 | 84 | 1165072 | 399.4 | |
| 130 2,4-Dinitrotoluene | 165 | 6.856 | 6.852 | 0.010 | 91 | 1156839 | 198.8 | |
| 132 Dibenzofuran | 168 | 6.873 | 6.869 | 0.009 | 86 | 4194166 | 176.4 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.973 | 6.969 | 0.009 | 66 | 1023595 | 199.9 | |
| 136 Hexadecane | 57 | 6.991 | 6.993 | 0.004 | 93 | 2062218 | 186.5 | |
| 139 Diethyl phthalate | 149 | 7.020 | 7.022 | 0.003 | 97 | 3455751 | 182.2 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.138 | 7.140 | 0.004 | 91 | 1772928 | 184.6 | |
| 143 Fluorene | 166 | 7.161 | 7.163 | 0.003 | 83 | 3561882 | 181.9 | |
| 146 4-Nitroaniline | 138 | 7.202 | 7.187 | 0.021 | 79 | 1003495 | 187.8 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.202 | 7.192 | 0.009 | 78 | 1425778 | 380.3 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.243 | 7.239 | 0.003 | 59 | 2749940 | 183.0 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.273 | 7.275 | 0.004 | 98 | 3910644 | 187.4 | |
| 152 Azobenzene | 77 | 7.273 | 7.275 | 0.004 | 99 | 3910644 | 185.4 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.367 | 7.369 | 0.004 | 91 | 934337 | 212.1 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.555 | 7.551 | 0.004 | 57 | 1207216 | 191.5 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.625 | 7.621 | 0.003 | 88 | 1449578 | 190.1 | |
| 167 Atrazine | 200 | 7.672 | 7.662 | 0.009 | 93 | 805154 | 180.3 | |
| 169 n-Octadecane | 85 | 7.755 | 7.751 | 0.003 | 96 | 1039920 | 189.2 | |
| 171 Pentachlorophenol | 266 | 7.790 | 7.786 | 0.004 | 87 | 1751876 | 388.6 | |
| 176 Phenanthrene | 178 | 7.978 | 7.974 | 0.004 | 98 | 4847624 | 173.2 | |
| 177 Anthracene | 178 | 8.019 | 8.015 | 0.003 | 98 | 5047753 | 176.5 | |
| 178 Carbazole | 167 | 8.154 | 8.150 | 0.003 | 83 | 4772379 | 174.8 | |
| 179 Alachlor | 188 | 8.219 | 8.215 | 0.004 | 98 | 754237 | 191.6 | |
| 181 Di-n-butyl phthalate | 149 | 8.377 | 8.373 | 0.003 | 100 | 5725142 | 180.7 | |
| 188 Fluoranthene | 202 | 9.094 | 9.090 | 0.003 | 98 | 5663361 | 184.0 | |
| 189 Benzidine | 184 | 9.241 | 9.231 | 0.009 | 99 | 3248438 | 179.7 | |
| 191 Pyrene | 202 | 9.382 | 9.372 | 0.009 | 96 | 5996215 | 185.2 | |
| 197 Famphur | 218 | 10.169 | 10.154 | 0.015 | 83 | 2048906 | 181.9 | |
| 198 Butyl benzyl phthalate | 149 | 10.234 | 10.230 | 0.003 | 96 | 2870056 | 202.4 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.327 | 11.323 | 0.003 | 96 | 3689038 | 203.5 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.339 | 11.323 | 0.015 | 65 | 2578284 | 196.1 | |
| 206 Benzo[a]anthracene | 228 | 11.374 | 11.358 | 0.015 | 89 | 5933361 | 193.0 | |
| 207 Chrysene | 228 | 11.456 | 11.446 | 0.009 | 94 | 5600132 | 191.6 | |
| 209 Di-n-octyl phthalate | 149 | 12.995 | 12.986 | 0.009 | 99 | 6544346 | 205.8 | |
| 211 Benzo[b]fluoranthene | 252 | 14.100 | 14.089 | 0.021 | 93 | 6286536 | 205.3 | |
| 212 Benzo[k]fluoranthene | 252 | 14.182 | 14.166 | 0.026 | 85 | 6781804 | 199.9 | |
| 214 Benzo[e]pyrene | 252 | 14.905 | 14.889 | 0.027 | 98 | 5561534 | 201.6 | |
| 215 Benzo[a]pyrene | 252 | 15.064 | 15.042 | 0.033 | 74 | 6462774 | 204.9 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.653 | 18.634 | 0.032 | 70 | 6149578 | 216.8 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.559 | 18.526 | 0.032 | 95 | 5753391 | 216.7 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.306 | 19.293 | 0.027 | 94 | 6323089 | 204.1 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 372.0 | |
| S 226 Total Cresols | 108 | | | | 0 | | 372.0 | |

QC Flag Legend

Review Flags
M - Manually Integrated

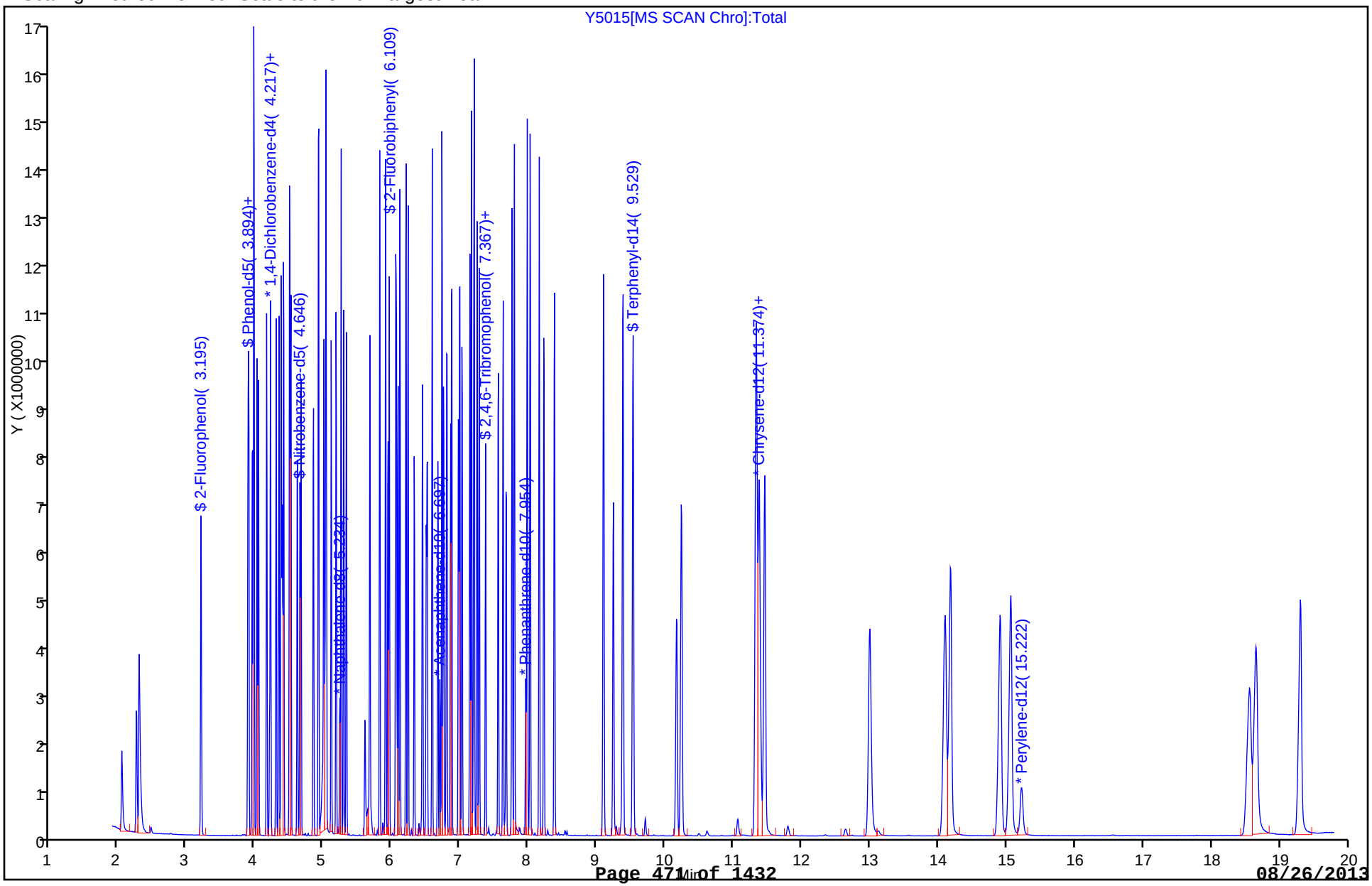
Report Date: 19-Jun-2013 10:52:19 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 10:33:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 9 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

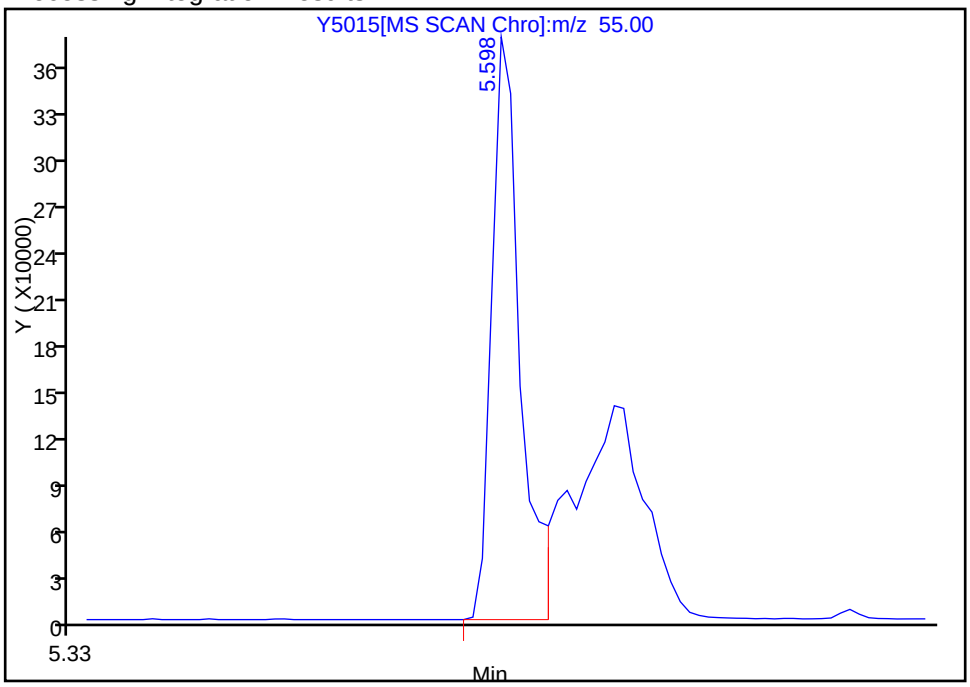
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D | | |
| Injection Date: | 17-Jun-2013 10:33:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 9 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

94 Caprolactam, Signal: 1, m/z: 55.0 Type: quant, RT: 5.58

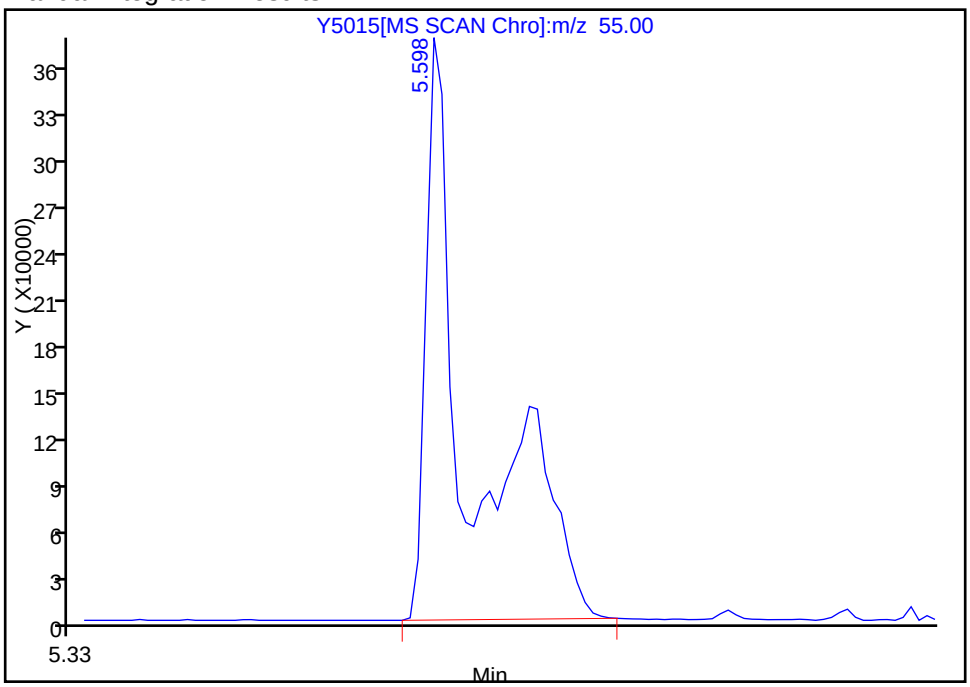
Processing Integration Results

RT: 5.60
Response: 459059
Amount: 117.5120




Manual Integration Results

RT: 5.60
Response: 850749
Amount: 204.9359




Reviewer: hoffmanm, 17-Jun-2013 11:53:38
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

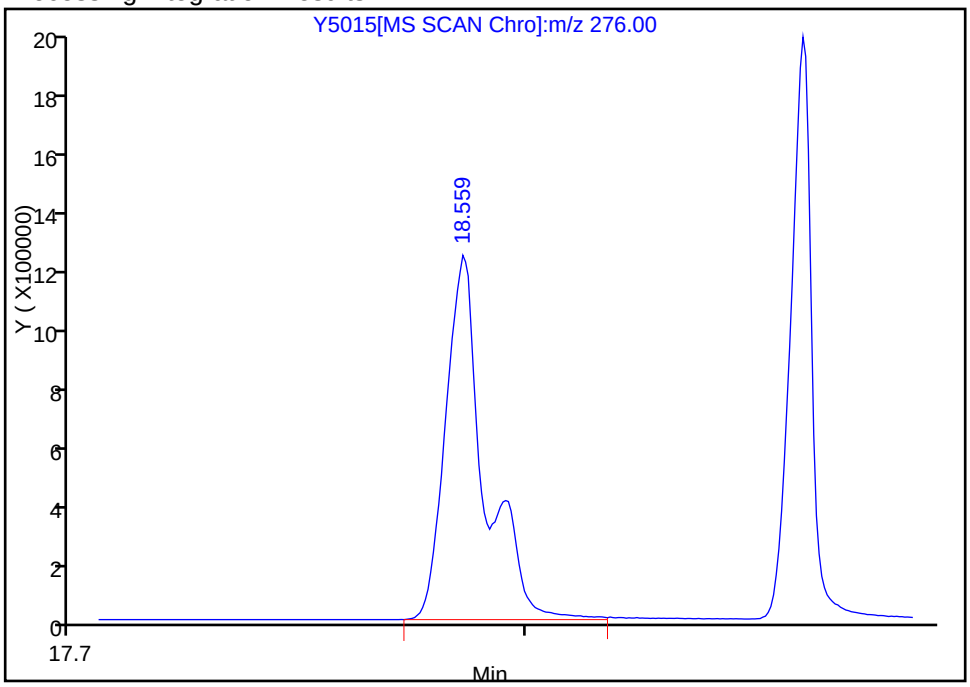
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D | | |
| Injection Date: | 17-Jun-2013 10:33:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 9 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.53

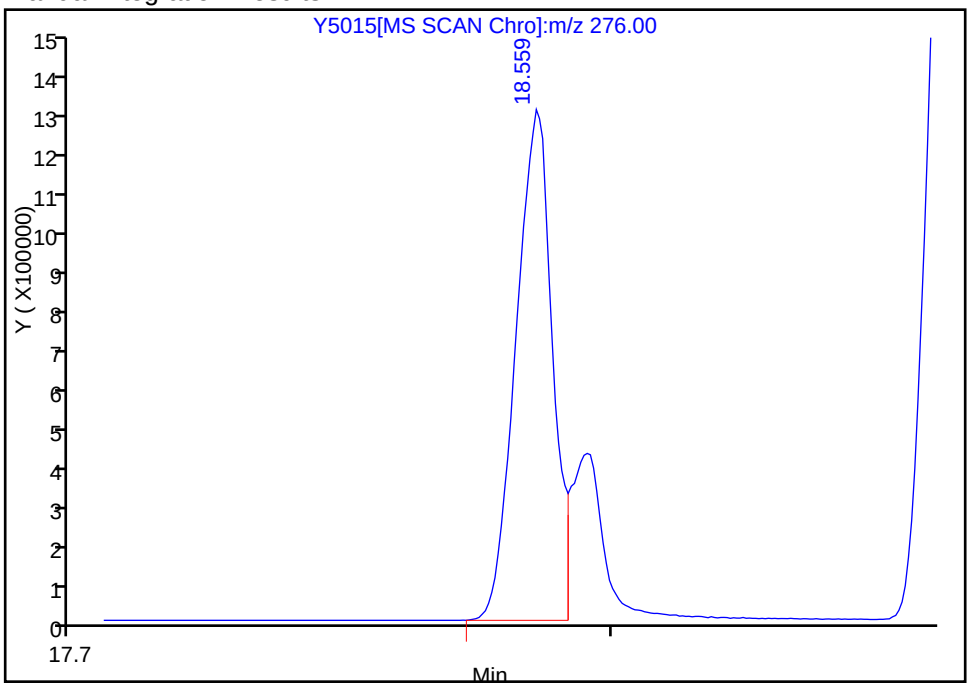
Processing Integration Results

RT: 18.56
Response: 7373720
Amount: 204.9513




Manual Integration Results

RT: 18.56
Response: 5753391
Amount: 216.6730




Reviewer: hoffmanm, 17-Jun-2013 11:53:38
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 185961

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2013 08:19 Calibration End Date: 08/06/2013 10:57 Calibration ID: 15077

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-185961/8 | Y5640.D |
| Level 2 | IC 280-185961/7 | Y5639.D |
| Level 3 | IC 280-185961/6 | Y5638.D |
| Level 4 | IC 280-185961/5 | Y5637.D |
| Level 5 | IC 280-185961/4 | Y5636.D |
| Level 6 | IC 280-185961/3 | Y5635.D |
| Level 7 | IC 280-185961/2 | Y5634.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Picoline | 1.6465<br>1.5835 | 1.6466<br>1.5709 | 1.6389 | 1.6282 | 1.6102 | Ave | | 1.6178 | | | | 1.9 | | 15.0 | | | |
| N-Nitrosomethylethylamine | 0.7056<br>0.7016 | 0.7054<br>0.6854 | 0.7106 | 0.7026 | 0.7067 | Ave | | 0.7026 | | | | 1.2 | | 15.0 | | | |
| Methyl methanesulfonate | 0.9369<br>0.8495 | 0.8923<br>0.8380 | 0.9124 | 0.8981 | 0.8738 | Ave | | 0.8858 | | | | 3.9 | | 15.0 | | | |
| N-Nitrosodiethylamine | 0.6802<br>0.6883 | 0.6861<br>0.6773 | 0.7131 | 0.6987 | 0.6967 | Ave | | 0.6915 | | | | 1.8 | | 15.0 | | | |
| Ethyl methanesulfonate | 1.1639<br>1.0940 | 1.1486<br>1.0677 | 1.1316 | 1.1294 | 1.1031 | Ave | | 1.1198 | | | | 3.0 | | 15.0 | | | |
| Pentachloroethane | 0.5285<br>0.5199 | 0.5435<br>0.5154 | 0.5321 | 0.5415 | 0.5272 | Ave | | 0.5297 | | | | 2.0 | | 15.0 | | | |
| N-Nitrosopyrrolidine | 0.7343<br>0.7597 | 0.7531<br>0.7507 | 0.7660 | 0.7741 | 0.7610 | Ave | | 0.7570 | | | | 1.7 | | 15.0 | | | |
| N-Nitrosomorpholine | 0.3257<br>0.3123 | 0.3147<br>0.3089 | 0.3128 | 0.3256 | 0.3098 | Ave | | 0.3157 | | | | 2.2 | | 15.0 | | | |
| 2-Toluidine | 2.2796<br>2.1197 | 2.1880<br>2.0386 | 2.2466 | 2.2350 | 2.1822 | Ave | | 2.1842 | | | | 3.8 | | 15.0 | | | |
| N-Nitrosopiperidine | 0.1863<br>0.1869 | 0.1876<br>0.1844 | 0.1895 | 0.1887 | 0.1896 | Ave | | 0.1876 | | | | 1.0 | | 15.0 | | | |
| o,o',o''-Triethylphosphorothioate | 0.1768<br>0.1692 | 0.1728<br>0.1672 | 0.1768 | 0.1721 | 0.1760 | Ave | | 0.1730 | | | | 2.2 | | 15.0 | | | |
| alpha,alpha-Dimethyl phenethylamine | 0.7876<br>0.7692 | 0.8340<br>0.7906 | 0.8359 | 0.8215 | 0.8034 | Ave | | 0.8060 | | | | 3.1 | | 15.0 | | | |
| 2,6-Dichlorophenol | 0.2753<br>0.2738 | 0.2788<br>0.2649 | 0.2810 | 0.2728 | 0.2746 | Ave | | 0.2745 | | | | 1.9 | | 15.0 | | | |
| Hexachloropropene | 0.2179<br>0.2255 | 0.2273<br>0.2212 | 0.2345 | 0.2326 | 0.2333 | Ave | | 0.2275 | | | | 2.8 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 185961

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2013 08:19 Calibration End Date: 08/06/2013 10:57 Calibration ID: 15077

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| N-Nitrosodi-n-butylamine | 0.2353<br>0.2361 | 0.2388<br>0.2310 | 0.2465 | 0.2410 | 0.2412 | Ave | | 0.2386 | | | | 2.1 | | 15.0 | | | |
| p-Phenylene diamine | 0.4930<br>0.4798 | 0.5061<br>0.4532 | 0.5153 | 0.5016 | 0.5006 | Ave | | 0.4928 | | | | 4.2 | | 15.0 | | | |
| Safrole, Total | 0.2788<br>0.2736 | 0.2810<br>0.2670 | 0.2832 | 0.2815 | 0.2828 | Ave | | 0.2783 | | | | 2.1 | | 15.0 | | | |
| 1,4-Naphthoquinone | 0.2817<br>0.3683 | 0.3421<br>0.3434 | 0.3798 | 0.3787 | 0.3701 | Ave | | 0.3520 | | | | 9.8 | | 15.0 | | | |
| 1,4-Dinitrobenzene | 0.1362<br>0.1924 | 0.1591<br>0.1874 | 0.1782 | 0.1847 | 0.1862 | Ave | | 0.1749 | | | | 12.0 | | 15.0 | | | |
| Pentachlorobenzene | 0.5653<br>0.5241 | 0.5444<br>0.5105 | 0.5522 | 0.5436 | 0.5227 | Ave | | 0.5376 | | | | 3.6 | | 15.0 | | | |
| 1-Naphthylamine | 1.2326<br>1.1453 | 1.2300<br>1.0872 | 1.2544 | 1.2108 | 1.1620 | Ave | | 1.1889 | | | | 5.0 | | 15.0 | | | |
| 2-Naphthylamine | 1.2785<br>1.1648 | 1.2466<br>1.1132 | 1.2569 | 1.2356 | 1.1713 | Ave | | 1.2096 | | | | 5.0 | | 15.0 | | | |
| Thionazin | 0.2901<br>0.2913 | 0.2959<br>0.2869 | 0.2996 | 0.2998 | 0.2943 | Ave | | 0.2940 | | | | 1.6 | | 15.0 | | | |
| N-Nitro-o-toluidine | 0.3590<br>0.3813 | 0.3673<br>0.3813 | 0.3877 | 0.3927 | 0.3793 | Ave | | 0.3784 | | | | 3.1 | | 15.0 | | | |
| Diphenylamine | 1.1344<br>1.0515 | 1.1064<br>1.0097 | 1.1273 | 1.1087 | 1.0635 | Ave | | 1.0859 | | | | 4.2 | | 15.0 | | | |
| Sulfotepp | 0.1254<br>0.1240 | 0.1287<br>0.1223 | 0.1310 | 0.1327 | 0.1299 | Ave | | 0.1277 | | | | 3.0 | | 15.0 | | | |
| Diallate Peak 1 | 0.3348<br>0.3347 | 0.3283<br>0.3299 | 0.3351 | 0.3416 | 0.3369 | Ave | | 0.3345 | | | | 1.3 | | 15.0 | | | |
| Phorate | 0.1363<br>0.1443 | 0.1423<br>0.1412 | 0.1537 | 0.1506 | 0.1464 | Ave | | 0.1450 | | | | 4.1 | | 15.0 | | | |
| 1,3,5-Trinitrobenzene | 0.0432<br>0.0811 | 0.0545<br>0.0776 | 0.0732 | 0.0792 | 0.0817 | Lin2 | -0.420 | 0.0822 | | | | | | | 0.9970 | | 0.9900 |
| Phenacetin | 0.3499<br>0.3843 | 0.3639<br>0.3718 | 0.3868 | 0.3903 | 0.3855 | Ave | | 0.3761 | | | | 3.9 | | 15.0 | | | |
| Diallate Peak 2 | 0.3607<br>0.3648 | 0.3808<br>0.3641 | 0.3633 | 0.3761 | 0.3700 | Ave | | 0.3685 | | | | 2.0 | | 15.0 | | | |
| Dimethoate | 0.3111<br>0.2723 | 0.3178<br>0.2499 | 0.3150 | 0.3080 | 0.2980 | Ave | | 0.2960 | | | | 8.6 | | 15.0 | | | |
| 4-Aminobiphenyl | 0.8402<br>0.7921 | 0.8455<br>0.7456 | 0.8697 | 0.8577 | 0.8253 | Ave | | 0.8251 | | | | 5.2 | | 15.0 | | | |
| Pentachloronitrobenzene | 0.0972<br>0.0850 | 0.0958<br>0.0827 | 0.0925 | 0.0924 | 0.0904 | Ave | | 0.0909 | | | | 5.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 185961

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2013 08:19 Calibration End Date: 08/06/2013 10:57 Calibration ID: 15077

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Pronamide | 0.3131<br>0.3061 | 0.3202<br>0.2910 | 0.3266 | 0.3298 | 0.3170 | Ave | | 0.3148 | | | | 4.2 | | 15.0 | | | |
| Disulfoton | 0.3936<br>0.3993 | 0.3981<br>0.3912 | 0.4185 | 0.4140 | 0.4100 | Ave | | 0.4035 | | | | 2.6 | | 15.0 | | | |
| Methyl parathion | 0.2298<br>0.2251 | 0.2432<br>0.2053 | 0.2519 | 0.2479 | 0.2423 | Ave | | 0.2351 | | | | 6.9 | | 15.0 | | | |
| Ethyl Parathion | 0.1297<br>0.1584 | 0.1412<br>0.1515 | 0.1576 | 0.1632 | 0.1624 | Ave | | 0.1520 | | | | 8.1 | | 15.0 | | | |
| 4-Nitroquinoline-1-oxide | 0.0553<br>0.1009 | 0.0663<br>0.0886 | 0.0858 | 0.0955 | 0.1011 | Lin2 | -0.470 | 0.0983 | | | | | | | 0.9940 | | 0.9900 |
| Methapyrilene | 0.3805<br>0.2684 | 0.3795<br>0.2257 | 0.3559 | 0.3277 | 0.2980 | Qua | -0.331 | 0.4094 | -0.001 | | | | | | 0.9990 | | 0.9900 |
| Isodrin | 0.1230<br>0.1251 | 0.1218<br>0.1226 | 0.1260 | 0.1292 | 0.1271 | Ave | | 0.1250 | | | | 2.2 | | 15.0 | | | |
| Aramite Peak 1 | 0.0663<br>0.0941 | 0.0741<br>0.0929 | 0.0859 | 0.0928 | 0.0945 | Ave | | 0.0858 | | | | 13.0 | | 15.0 | | | |
| Aramite Peak 2 | 0.0739<br>0.0938 | 0.0795<br>0.0932 | 0.0886 | 0.0944 | 0.0937 | Ave | | 0.0882 | | | | 9.3 | | 15.0 | | | |
| p-Dimethylamino azobenzene | 0.2616<br>0.3096 | 0.2820<br>0.3075 | 0.3033 | 0.3134 | 0.3074 | Ave | | 0.2978 | | | | 6.4 | | 15.0 | | | |
| Ethyl 4,4'-Dichlorobenzilate | 0.2947<br>0.3117 | 0.2883<br>0.3176 | 0.3070 | 0.3194 | 0.3149 | Ave | | 0.3077 | | | | 3.9 | | 15.0 | | | |
| 3,3'-Dimethylbenzidine | 0.5774<br>0.6069 | 0.6175<br>0.5719 | 0.6379 | 0.6402 | 0.6157 | Ave | | 0.6096 | | | | 4.4 | | 15.0 | | | |
| 2-Acetylaminofluorene | 0.2578<br>0.4051 | 0.3197<br>0.4017 | 0.3726 | 0.3988 | 0.4040 | Ave | | 0.3657 | | | | 15.0 | | 15.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | 0.1468<br>0.1810 | 0.1615<br>0.1789 | 0.1798 | 0.1836 | 0.1840 | Ave | | 0.1737 | | | | 8.1 | | 15.0 | | | |
| 7,12-Dimethylbenz(a)anthracene | 0.4464<br>0.5613 | 0.4883<br>0.5558 | 0.5323 | 0.5565 | 0.5572 | Ave | | 0.5282 | | | | 8.4 | | 15.0 | | | |
| 3-Methylcholanthrene | 0.4083<br>0.5848 | 0.4577<br>0.5770 | 0.5293 | 0.5605 | 0.5708 | Ave | | 0.5269 | | | | 13.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 185961

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2013 08:19 Calibration End Date: 08/06/2013 10:57 Calibration ID: 15077

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 280-185961/8 | Y5640.D |
| Level 2 | IC 280-185961/7 | Y5639.D |
| Level 3 | IC 280-185961/6 | Y5638.D |
| Level 4 | IC 280-185961/5 | Y5637.D |
| Level 5 | IC 280-185961/4 | Y5636.D |
| Level 6 | IC 280-185961/3 | Y5635.D |
| Level 7 | IC 280-185961/2 | Y5634.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 2-Picoline | DCB | Ave | 143999<br>2295424 | 289217<br>2905219 | 709001 | 1154549 | 1723880 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| N-Nitrosomethylethylamine | DCB | Ave | 61708<br>1017113 | 123899<br>1267561 | 307431 | 498191 | 756582 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Methyl methanesulfonate | DCB | Ave | 81935<br>1231381 | 156731<br>1549706 | 394696 | 636824 | 935449 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| N-Nitrosodiethylamine | DCB | Ave | 59489<br>997818 | 120510<br>1252673 | 308501 | 495467 | 745847 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Ethyl methanesulfonate | DCB | Ave | 101790<br>1585895 | 201750<br>1974508 | 489528 | 800892 | 1180971 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Pentachloroethane | DCB | Ave | 46218<br>753588 | 95460<br>953135 | 230175 | 383954 | 564400 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| N-Nitrosopyrrolidine | DCB | Ave | 64220<br>1101283 | 132281<br>1388267 | 331366 | 548886 | 814731 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| N-Nitrosomorpholine | DCB | Ave | 28485<br>452704 | 55274<br>571306 | 135322 | 230911 | 331660 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 2-Toluidine | DCB | Ave | 199366<br>3072750 | 384308<br>3770195 | 971877 | 1584851 | 2336217 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| N-Nitrosopiperidine | NPT | Ave | 62947<br>1049415 | 126079<br>1318141 | 315291 | 522025 | 781124 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| o,o',o''-Triethylphosphorothioate | NPT | Ave | 59715<br>950476 | 116108<br>1194993 | 294254 | 476166 | 725449 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| alpha,alpha-Dimethyl phenethylamine | NPT | Ave | 266071<br>4319737 | 560474<br>5650465 | 1391189 | 2272955 | 3310706 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 2,6-Dichlorophenol | NPT | Ave | 93002<br>1537618 | 187355<br>1893066 | 467704 | 754877 | 1131484 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Hexachloropropene | NPT | Ave | 73619<br>1266653 | 152725<br>1580862 | 390281 | 643679 | 961221 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| N-Nitrosodi-n-butylamine | NPT | Ave | 79502<br>1325924 | 160483<br>1651237 | 410167 | 666913 | 994091 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 185961

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2013 08:19 Calibration End Date: 08/06/2013 10:57 Calibration ID: 15077

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| p-Phenylene diamine | NPT | Ave | 166545<br>2694534 | 340123<br>3239237 | 857536 | 1387916 | 2062964 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Safrole, Total | NPT | Ave | 94179<br>1536697 | 188849<br>1908225 | 471380 | 778829 | 1165219 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 1,4-Naphthoquinone | ANT | Ave | 56097<br>1224555 | 137342<br>1444486 | 375666 | 618938 | 929724 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 1,4-Dinitrobenzene | ANT | Ave | 27123<br>639719 | 63892<br>788130 | 176282 | 301834 | 467733 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Pentachlorobenzene | ANT | Ave | 112596<br>1742593 | 218567<br>2147598 | 546201 | 888426 | 1313092 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 1-Naphthylamine | ANT | Ave | 245488<br>3808499 | 493821<br>4573485 | 1240695 | 1978707 | 2918840 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 2-Naphthylamine | ANT | Ave | 254633<br>3873279 | 500482<br>4682597 | 1243119 | 2019373 | 2942275 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Thionazin | ANT | Ave | 57786<br>968647 | 118787<br>1206888 | 296301 | 489911 | 739297 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| N-Nitro-o-toluidine | ANT | Ave | 71497<br>1267960 | 147469<br>1603997 | 383443 | 641857 | 952817 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Diphenylamine | ANT | Ave | 225931<br>3496471 | 444208<br>4247453 | 1115012 | 1811876 | 2671453 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Sulfotepp | PHN | Ave | 43010<br>698873 | 89255<br>871353 | 222169 | 365585 | 541357 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Diallate Peak 1 | PHN | Ave | 101294<br>1663314 | 200872<br>2073103 | 501409 | 830122 | 1237956 | 8.82<br>141 | 17.6<br>176 | 44.1 | 70.6 | 106 |
| Phorate | PHN | Ave | 46747<br>813318 | 98730<br>1006137 | 260790 | 414942 | 609806 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 1,3,5-Trinitrobenzene | PHN | Lin2 | 14804<br>456773 | 37830<br>553028 | 124102 | 218342 | 340469 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Phenacetin | PHN | Ave | 120018<br>2165443 | 252438<br>2649209 | 656178 | 1075383 | 1606041 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Diallate Peak 2 | PHN | Ave | 14599<br>242516 | 31168<br>306057 | 72720 | 122295 | 181898 | 1.18<br>18.9 | 2.36<br>23.6 | 5.90 | 9.44 | 14.2 |
| Dimethoate | PHN | Ave | 106717<br>1533995 | 220402<br>1780550 | 534388 | 848814 | 1241586 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 4-Aminobiphenyl | PHN | Ave | 288176<br>4463109 | 586442<br>5311950 | 1475321 | 2363277 | 3438166 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Pentachloronitrobenzene | PHN | Ave | 33350<br>478820 | 66466<br>589476 | 156904 | 254720 | 376769 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Pronamide | PHN | Ave | 107404<br>1724700 | 222085<br>2073105 | 554073 | 908886 | 1320485 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Disulfoton | PHN | Ave | 134988<br>2249933 | 276135<br>2786940 | 709988 | 1140824 | 1708084 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-45026-1 Analy Batch No.: 185961

SDG No.:

Instrument ID: SMS_Y GC Column: Vf-5MS (30.2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2013 08:19 Calibration End Date: 08/06/2013 10:57 Calibration ID: 15077

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Methyl parathion | PHN | Ave | 78825<br>1268260 | 168660<br>1462971 | 427249 | 682946 | 1009529 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Ethyl Parathion | PHN | Ave | 44490<br>892761 | 97926<br>1078998 | 267385 | 449581 | 676387 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 4-Nitroquinoline-1-oxide | PHN | Lin2 | 18983<br>568381 | 45968<br>631016 | 145506 | 263047 | 421194 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Methapyrilene | PHN | Qua | 130523<br>1512031 | 263204<br>1607728 | 603684 | 903057 | 1241274 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Isodrin | PHN | Ave | 42178<br>704784 | 84506<br>873174 | 213700 | 356137 | 529586 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Aramite Peak 1 | CRY | Ave | 11713<br>272377 | 26484<br>332727 | 76114 | 132051 | 204164 | 4.61<br>73.8 | 9.22<br>92.2 | 23.1 | 36.9 | 55.3 |
| Aramite Peak 2 | CRY | Ave | 15272<br>317414 | 33196<br>390253 | 91771 | 157065 | 236834 | 5.39<br>86.2 | 10.8<br>108 | 27.0 | 43.1 | 64.7 |
| p-Dimethylamino azobenzene | CRY | Ave | 100309<br>1944070 | 218523<br>2388626 | 582906 | 967145 | 1441174 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| Ethyl 4,4'-Dichlorobenzilate | CRY | Ave | 112995<br>1957303 | 223398<br>2467003 | 590110 | 985628 | 1476369 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 3,3'-Dimethylbenzidine | CRY | Ave | 221401<br>3810359 | 478412<br>4442772 | 1226163 | 1975507 | 2887032 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 2-Acetylaminofluorene | CRY | Ave | 98851<br>2543199 | 247708<br>3120552 | 716140 | 1230810 | 1894258 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 4,4'-Methylene bis(2-chloroaniline) | CRY | Ave | 56311<br>1136116 | 125123<br>1389988 | 345622 | 566585 | 862912 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 7,12-Dimethylbenz(a)anthracene | PRY | Ave | 161600<br>3285773 | 360344<br>4054580 | 962718 | 1617394 | 2457823 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |
| 3-Methylcholanthrene | PRY | Ave | 147807<br>3423211 | 337760<br>4209281 | 957357 | 1629246 | 2517577 | 10.0<br>160 | 20.0<br>200 | 50.0 | 80.0 | 120 |

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5634.D
Lims ID: IC AP9200 Client ID:
Inject. Date: 06-Aug-2013 08:19:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: IC AP9200
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 2
Lims Batch ID: 185961 Lims Sample ID: 2
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:02 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 11:41:20

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.146 | 4.146 | 0.0 | 97 | 369878 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.186 | 5.186 | 0.0 | 99 | 1429490 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.655 | 6.655 | 0.0 | 90 | 841308 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.907 | 7.907 | 0.0 | 96 | 1424882 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.279 | 11.279 | 0.0 | 85 | 1553576 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.039 | 15.039 | 0.0 | 87 | 1459085 | 40.0 | |
| 31 2-Picoline | 93 | 2.689 | 2.689 | 0.0 | 95 | 2905219 | 194.2 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.771 | 2.771 | 0.0 | 90 | 1267561 | 195.1 | |
| 33 Acrylamide | 71 | 2.995 | 2.995 | 0.0 | 80 | 1228842 | 218.0 | |
| 34 Methyl methanesulfonate | 80 | 3.006 | 3.006 | 0.0 | 86 | 1549706 | 189.2 | |
| 35 N-Nitrosodiethylamine | 102 | 3.306 | 3.306 | 0.0 | 94 | 1252673 | 195.9 | |
| 37 Ethyl methanesulfonate | 79 | 3.529 | 3.529 | 0.0 | 98 | 1974508 | 190.7 | |
| 46 Pentachloroethane | 117 | 3.929 | 3.929 | 0.0 | 88 | 953135 | 194.6 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.464 | 4.463 | 0.0 | 93 | 1388267 | 198.3 | |
| 64 N-Nitrosomorpholine | 116 | 4.487 | 4.487 | 0.0 | 89 | 571306 | 195.7 | |
| 65 2-Toluidine | 106 | 4.499 | 4.499 | 0.0 | 87 | 3770195 | 186.7 | |
| 70 N-Nitrosopiperidine | 114 | 4.740 | 4.740 | 0.0 | 85 | 1318141 | 196.7 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.916 | 4.916 | 0.0 | 84 | 1194993 | 193.3 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.028 | 5.028 | 0.0 | 98 | 5650465 | 196.2 | M |
| 89 2,6-Dichlorophenol | 162 | 5.251 | 5.251 | 0.0 | 96 | 1893066 | 193.0 | |
| 90 Hexachloropropene | 213 | 5.269 | 5.269 | 0.0 | 86 | 1580862 | 194.5 | |
| 92 Quinoline | 129 | 5.486 | 5.486 | 0.0 | 95 | 4411314 | 180.9 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.492 | 5.492 | 0.0 | 90 | 1651237 | 193.7 | |
| 95 p-Phenylene diamine | 108 | 5.545 | 5.545 | 0.0 | 97 | 3239237 | 183.9 | |
| 98 Safrole, Total | 162 | 5.686 | 5.686 | 0.0 | 89 | 1908225 | 191.9 | |
| 107 Isosafrole Peak 1 | 162 | 5.927 | 5.927 | 0.0 | 91 | 361626 | 35.6 | |
| 111 Isosafrole Peak 2 | 104 | 6.115 | 6.115 | 0.0 | 93 | 719564 | 159.5 | |
| 115 1-Chloronaphthalene | 162 | 6.209 | 6.209 | 0.0 | 96 | 4140956 | 187.5 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.338 | 6.338 | 0.0 | 84 | 1444486 | 195.1 | |
| 118 1,4-Dinitrobenzene | 168 | 6.391 | 6.391 | 0.0 | 90 | 788130 | 214.3 | |
| 129 Pentachlorobenzene | 250 | 6.790 | 6.790 | 0.0 | 95 | 2147598 | 189.9 | |
| 133 1-Naphthylamine | 143 | 6.902 | 6.902 | 0.0 | 98 | 4573485 | 182.9 | |
| 137 2-Naphthylamine | 143 | 6.967 | 6.966 | 0.0 | 94 | 4682597 | 184.1 | |
| 141 Thionazin | 97 | 7.049 | 7.049 | 0.0 | 82 | 1206888 | 195.2 | |
| 145 N-Nitro-o-toluidine | 152 | 7.131 | 7.131 | 0.0 | 96 | 1603997 | 201.5 | |
| 149 Diphenylamine | 169 | 7.196 | 7.196 | 0.0 | 90 | 4247453 | 186.0 | |
| 154 Sulfotepp | 97 | 7.284 | 7.284 | 0.0 | 92 | 871353 | 191.5 | |
| 158 Diallate Peak 1 | 86 | 7.413 | 7.413 | 0.0 | 92 | 2073103 | 174.0 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.425 | 7.425 | 0.0 | 69 | 553028 | 194.0 | |
| 160 Phorate | 121 | 7.425 | 7.425 | 0.0 | 93 | 1006137 | 194.8 | |
| 161 Phenacetin | 108 | 7.454 | 7.454 | 0.0 | 91 | 2649209 | 197.7 | |
| 163 Diallate Peak 2 | 86 | 7.489 | 7.489 | 0.0 | 95 | 306057 | 23.3 | |
| 166 Dimethoate | 87 | 7.595 | 7.595 | 0.0 | 97 | 1780550 | 168.9 | |
| 170 4-Aminobiphenyl | 169 | 7.736 | 7.736 | 0.0 | 87 | 5311950 | 180.7 | |
| 172 Pronamide | 173 | 7.754 | 7.754 | 0.0 | 86 | 2073105 | 184.8 | |
| 173 Pentachloronitrobenzene | 237 | 7.748 | 7.748 | 0.0 | 86 | 589476 | 182.1 | |
| 174 Disulfoton | 88 | 7.860 | 7.860 | 0.0 | 93 | 2786940 | 193.9 | |
| 175 Dinoseb | 211 | 7.871 | 7.871 | 0.0 | 97 | 1387595 | 197.1 | |
| 180 Methyl parathion | 109 | 8.195 | 8.195 | 0.0 | 94 | 1462971 | 174.7 | |
| 183 Ethyl Parathion | 109 | 8.518 | 8.518 | 0.0 | 89 | 1078998 | 199.3 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.618 | 8.617 | 0.0 | 89 | 631016 | 184.9 | |
| 185 Methapyrilene | 97 | 8.623 | 8.623 | 0.0 | 93 | 1607728 | 192.6 | |
| 187 Isodrin | 193 | 8.853 | 8.853 | 0.0 | 93 | 873174 | 196.1 | |
| 192 Aramite Peak 1 | 185 | 9.375 | 9.375 | 0.0 | 91 | 332727 | 99.8 | |
| 193 Aramite Peak 2 | 185 | 9.475 | 9.475 | 0.0 | 94 | 390253 | 114.0 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.652 | 9.652 | 0.0 | 93 | 2388626 | 206.5 | |
| 195 Chlorobenzilate | 251 | 9.687 | 9.687 | 0.0 | 95 | 2467003 | 206.5 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.186 | 10.186 | 0.0 | 96 | 4442772 | 187.6 | |
| 202 2-Acetylaminofluorene | 181 | 10.650 | 10.650 | 0.0 | 92 | 3120552 | 219.7 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.220 | 11.220 | 0.0 | 87 | 1389988 | 206.1 | |
| 208 6-Methylchrysene | 242 | 12.384 | 12.384 | 0.0 | 98 | 5607475 | 204.3 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.929 | 13.929 | 0.0 | 81 | 4054580 | 210.4 | |
| 217 3-Methylcholanthrene | 268 | 15.956 | 15.956 | 0.0 | 70 | 4209281 | 219.0 | |
| 219 Dibenz[a,h]acridine | 279 | 17.672 | 17.671 | 0.0 | 74 | 6290011 | 216.9 | |
| 220 Dibenz[a,j]acridine | 279 | 17.842 | 17.842 | 0.0 | 100 | 6421096 | 210.9 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 213.8 | |
| S 228 Diallate | 86 | | | | 0 | | 197.3 | |
| S 229 Isosafrole | 162 | | | | 0 | | 195.2 | |

QC Flag Legend

Review Flags
M - Manually Integrated

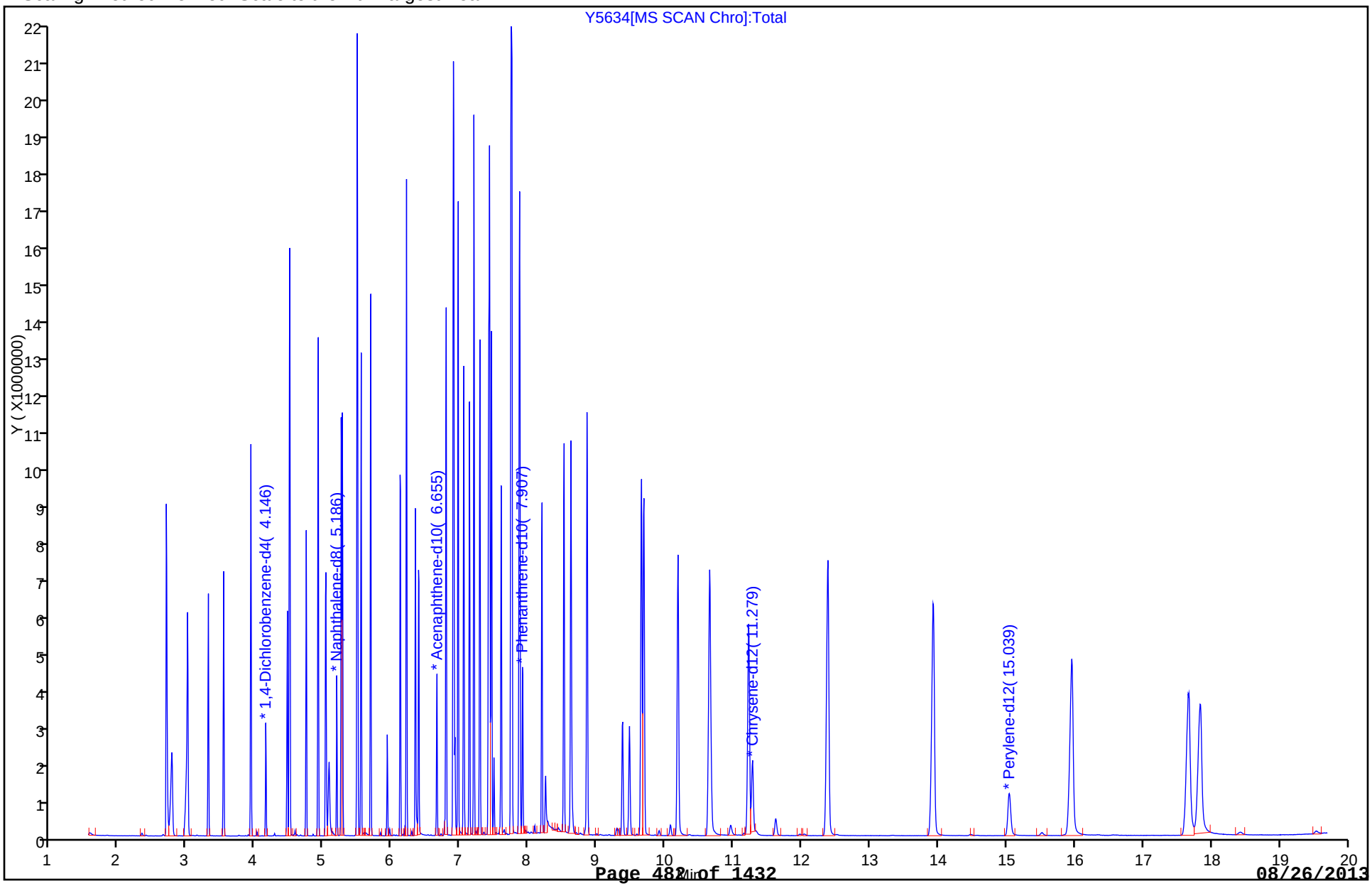
Report Date: 07-Aug-2013 06:36:02 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5634.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 08:19:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 2 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

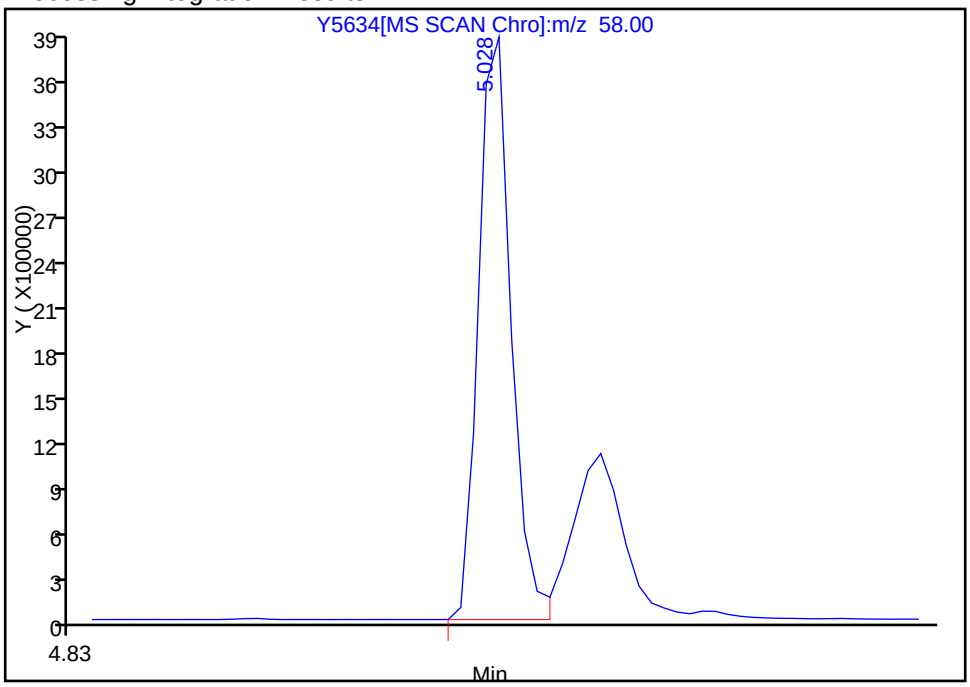
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5634.D | | |
| Injection Date: | 06-Aug-2013 08:19:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 2 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

81 alpha,alpha-Dimethyl phenethylamine, Signal: 1, m/z: 58.0 Type: quant, RT: 5.03

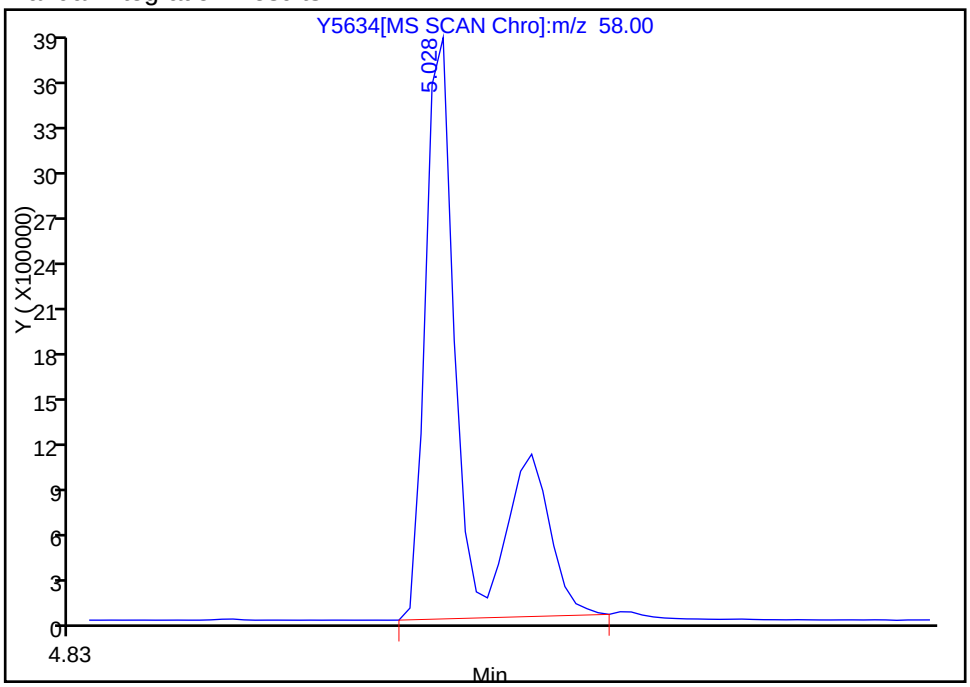
Processing Integration Results

RT: 5.03
Response: 4039352
Amount: 200.0000




Manual Integration Results

RT: 5.03
Response: 5650465
Amount: 196.1614




Reviewer: hoffmanm, 06-Aug-2013 11:41:20
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5635.D
Lims ID: IC AP9160 Client ID:
Inject. Date: 06-Aug-2013 08:45:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: IC AP9160
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 3
Lims Batch ID: 185961 Lims Sample ID: 3
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:03 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 11:42:54

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.146 | 4.146 | 0.0 | 97 | 362401 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.186 | 5.186 | 0.0 | 100 | 1403963 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.654 | 6.655 | -0.001 | 91 | 831303 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.906 | 7.907 | -0.001 | 96 | 1408595 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.273 | 11.279 | -0.006 | 81 | 1569615 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.039 | 15.039 | 0.0 | 98 | 1463359 | 40.0 | |
| 31 2-Picoline | 93 | 2.694 | 2.689 | 0.005 | 95 | 2295424 | 156.6 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.771 | 2.771 | 0.0 | 89 | 1017113 | 159.8 | |
| 33 Acrylamide | 71 | 2.994 | 2.995 | -0.001 | 81 | 936860 | 169.6 | |
| 34 Methyl methanesulfonate | 80 | 3.006 | 3.006 | 0.0 | 86 | 1231381 | 153.4 | |
| 35 N-Nitrosodiethylamine | 102 | 3.305 | 3.306 | -0.001 | 96 | 997818 | 159.3 | |
| 37 Ethyl methanesulfonate | 79 | 3.529 | 3.529 | 0.0 | 98 | 1585895 | 156.3 | |
| 46 Pentachloroethane | 117 | 3.928 | 3.929 | -0.001 | 89 | 753588 | 157.0 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.463 | 4.463 | -0.001 | 93 | 1101283 | 160.6 | |
| 64 N-Nitrosomorpholine | 116 | 4.486 | 4.487 | -0.001 | 94 | 452704 | 158.3 | |
| 65 2-Toluidine | 106 | 4.498 | 4.499 | -0.001 | 86 | 3072750 | 155.3 | |
| 70 N-Nitrosopiperidine | 114 | 4.739 | 4.740 | -0.001 | 85 | 1049415 | 159.4 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.915 | 4.916 | -0.001 | 85 | 950476 | 156.5 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.027 | 5.028 | -0.001 | 98 | 4319737 | 152.7 | M |
| 89 2,6-Dichlorophenol | 162 | 5.250 | 5.251 | -0.001 | 96 | 1537618 | 159.6 | |
| 90 Hexachloropropene | 213 | 5.268 | 5.269 | -0.001 | 86 | 1266653 | 158.6 | |
| 92 Quinoline | 129 | 5.485 | 5.486 | -0.001 | 96 | 3627132 | 151.8 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.491 | 5.492 | -0.001 | 92 | 1325924 | 158.3 | |
| 95 p-Phenylene diamine | 108 | 5.544 | 5.545 | -0.001 | 97 | 2694534 | 155.8 | |
| 98 Safrole, Total | 162 | 5.685 | 5.686 | -0.001 | 89 | 1536697 | 157.3 | |
| 107 Isosafrole Peak 1 | 162 | 5.926 | 5.927 | -0.001 | 90 | 283724 | 28.3 | |
| 111 Isosafrole Peak 2 | 104 | 6.120 | 6.115 | 0.005 | 94 | 590503 | 132.5 | |
| 115 1-Chloronaphthalene | 162 | 6.208 | 6.209 | -0.001 | 97 | 3368611 | 154.4 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.337 | 6.338 | -0.001 | 84 | 1224555 | 167.4 | |
| 118 1,4-Dinitrobenzene | 168 | 6.390 | 6.391 | -0.001 | 90 | 639719 | 176.0 | |
| 129 Pentachlorobenzene | 250 | 6.790 | 6.790 | 0.0 | 94 | 1742593 | 156.0 | |
| 133 1-Naphthylamine | 143 | 6.901 | 6.902 | -0.001 | 98 | 3808499 | 154.1 | |
| 137 2-Naphthylamine | 143 | 6.966 | 6.966 | -0.001 | 88 | 3873279 | 154.1 | |
| 141 Thionazin | 97 | 7.048 | 7.049 | -0.001 | 82 | 968647 | 158.5 | |
| 145 N-Nitro-o-toluidine | 152 | 7.130 | 7.131 | -0.001 | 96 | 1267960 | 161.2 | |
| 149 Diphenylamine | 169 | 7.195 | 7.196 | -0.001 | 91 | 3496471 | 154.9 | |
| 154 Sulfotepp | 97 | 7.283 | 7.284 | -0.001 | 91 | 698873 | 155.4 | |
| 158 Diallate Peak 1 | 86 | 7.407 | 7.413 | -0.006 | 93 | 1663314 | 141.2 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.424 | 7.425 | -0.001 | 68 | 456773 | 162.9 | |
| 160 Phorate | 121 | 7.424 | 7.425 | -0.001 | 93 | 813318 | 159.3 | |
| 161 Phenacetin | 108 | 7.454 | 7.454 | 0.0 | 92 | 2165443 | 163.5 | |
| 163 Diallate Peak 2 | 86 | 7.489 | 7.489 | 0.0 | 93 | 242516 | 18.7 | |
| 166 Dimethoate | 87 | 7.595 | 7.595 | 0.0 | 97 | 1533995 | 147.2 | |
| 170 4-Aminobiphenyl | 169 | 7.736 | 7.736 | 0.0 | 87 | 4463109 | 153.6 | |
| 172 Pronamide | 173 | 7.753 | 7.754 | -0.001 | 85 | 1724700 | 155.6 | |
| 173 Pentachloronitrobenzene | 237 | 7.747 | 7.748 | -0.001 | 75 | 478820 | 149.6 | |
| 174 Disulfoton | 88 | 7.859 | 7.860 | -0.001 | 93 | 2249933 | 158.3 | |
| 175 Dinoseb | 211 | 7.871 | 7.871 | 0.0 | 98 | 1123083 | 162.2 | |
| 180 Methyl parathion | 109 | 8.188 | 8.195 | -0.007 | 93 | 1268260 | 153.2 | |
| 183 Ethyl Parathion | 109 | 8.511 | 8.518 | -0.007 | 87 | 892761 | 166.8 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.617 | 8.617 | -0.001 | 90 | 568381 | 168.9 | |
| 185 Methapyrilene | 97 | 8.617 | 8.623 | -0.006 | 93 | 1512031 | 167.0 | |
| 187 Isodrin | 193 | 8.852 | 8.853 | -0.001 | 92 | 704784 | 160.1 | |
| 192 Aramite Peak 1 | 185 | 9.375 | 9.375 | 0.0 | 92 | 272377 | 80.9 | |
| 193 Aramite Peak 2 | 185 | 9.475 | 9.475 | 0.0 | 94 | 317414 | 91.8 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.645 | 9.652 | -0.007 | 94 | 1944070 | 166.3 | |
| 195 Chlorobenzilate | 251 | 9.686 | 9.687 | -0.001 | 94 | 1957303 | 162.1 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.186 | 10.186 | 0.0 | 96 | 3810359 | 159.3 | |
| 202 2-Acetylaminofluorene | 181 | 10.644 | 10.650 | -0.006 | 91 | 2543199 | 177.2 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.220 | 11.220 | 0.0 | 87 | 1136116 | 166.7 | |
| 208 6-Methylchrysene | 242 | 12.377 | 12.384 | -0.007 | 98 | 4585739 | 165.4 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.917 | 13.929 | -0.012 | 80 | 3285773 | 170.0 | |
| 217 3-Methylcholanthrene | 268 | 15.944 | 15.956 | -0.012 | 71 | 3423211 | 177.6 | |
| 219 Dibenz[a,h]acridine | 279 | 17.653 | 17.671 | -0.019 | 75 | 5141330 | 176.8 | |
| 220 Dibenz[a,j]acridine | 279 | 17.830 | 17.842 | -0.012 | 100 | 5356031 | 175.4 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 172.7 | |
| S 228 Diallate | 86 | | | | 0 | | 159.9 | |
| S 229 Isosafrole | 162 | | | | 0 | | 160.8 | |

QC Flag Legend

Review Flags
M - Manually Integrated

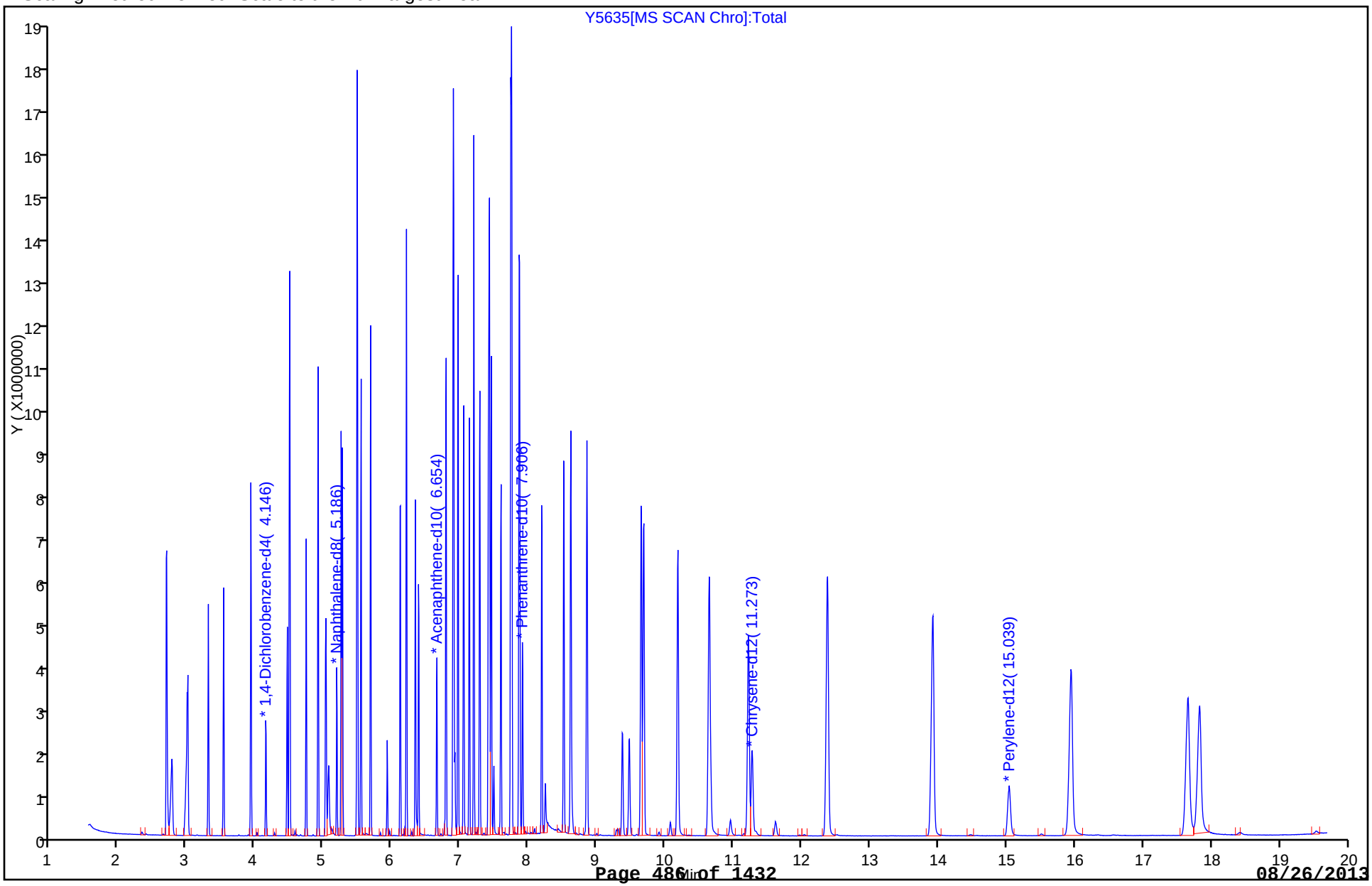
Report Date: 07-Aug-2013 06:36:04 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5635.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 08:45:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

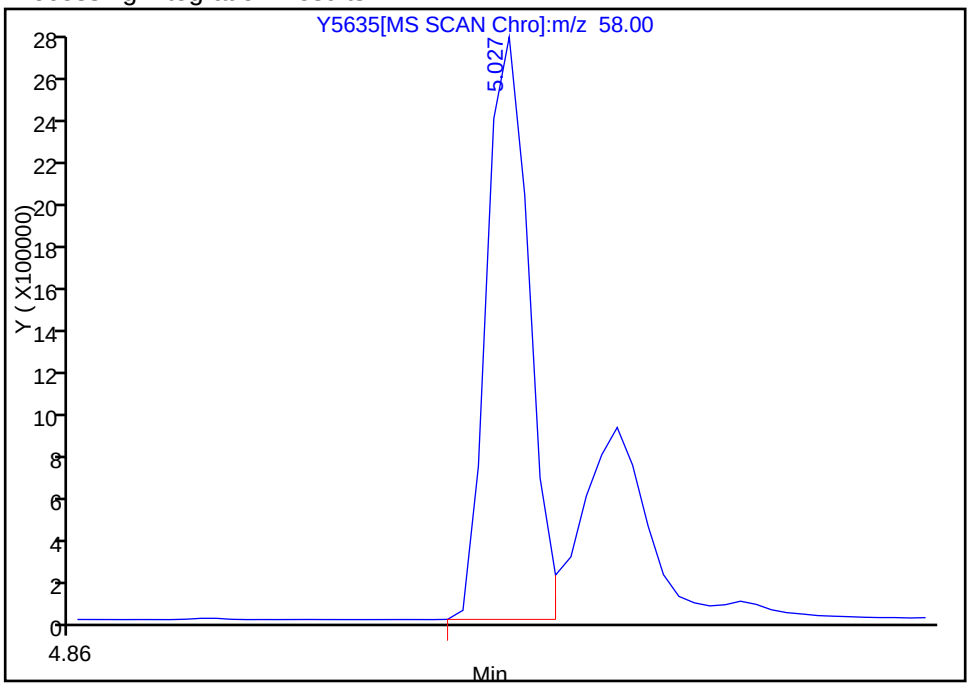
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5635.D | | |
| Injection Date: | 06-Aug-2013 08:45:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

81 alpha,alpha-Dimethyl phenethylamine, Signal: 1, m/z: 58.0 Type: quant, RT: 5.03

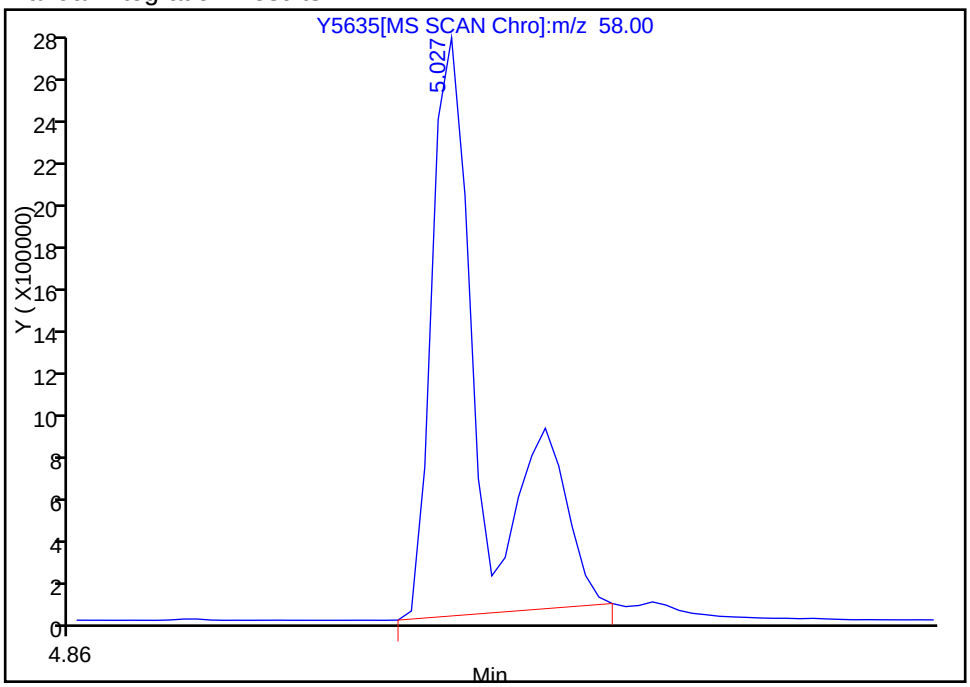
Processing Integration Results

RT: 5.03
Response: 3096577
Amount: 118.9682




Manual Integration Results

RT: 5.03
Response: 4319737
Amount: 152.6906




Reviewer: hoffmanm, 06-Aug-2013 11:42:54
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5636.D
Lims ID: IC AP9120 Client ID:
Inject. Date: 06-Aug-2013 09:12:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: IC AP9120
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 4
Lims Batch ID: 185961 Lims Sample ID: 4
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:05 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 11:43:41

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.148 | 4.146 | 0.002 | 97 | 356858 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.188 | 5.186 | 0.002 | 99 | 1373627 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.657 | 6.655 | 0.002 | 90 | 837327 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.908 | 7.907 | 0.001 | 96 | 1388632 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.275 | 11.279 | -0.004 | 81 | 1562964 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.035 | 15.039 | -0.004 | 98 | 1470279 | 40.0 | |
| 31 2-Picoline | 93 | 2.691 | 2.689 | 0.002 | 96 | 1723880 | 119.4 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.773 | 2.771 | 0.002 | 88 | 756582 | 120.7 | |
| 33 Acrylamide | 71 | 2.985 | 2.995 | -0.011 | 79 | 700731 | 128.8 | |
| 34 Methyl methanesulfonate | 80 | 3.002 | 3.006 | -0.004 | 87 | 935449 | 118.4 | |
| 35 N-Nitrosodiethylamine | 102 | 3.308 | 3.306 | 0.002 | 93 | 745847 | 120.9 | |
| 37 Ethyl methanesulfonate | 79 | 3.531 | 3.529 | 0.002 | 98 | 1180971 | 118.2 | |
| 46 Pentachloroethane | 117 | 3.930 | 3.929 | 0.001 | 88 | 564400 | 119.4 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.459 | 4.463 | -0.005 | 93 | 814731 | 120.6 | |
| 64 N-Nitrosomorpholine | 116 | 4.489 | 4.487 | 0.002 | 92 | 331660 | 117.8 | |
| 65 2-Toluidine | 106 | 4.500 | 4.499 | 0.001 | 86 | 2336217 | 119.9 | |
| 70 N-Nitrosopiperidine | 114 | 4.741 | 4.740 | 0.001 | 85 | 781124 | 121.3 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.912 | 4.916 | -0.004 | 89 | 725449 | 122.1 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.029 | 5.028 | 0.001 | 97 | 3310706 | 119.6 | M |
| 89 2,6-Dichlorophenol | 162 | 5.252 | 5.251 | 0.001 | 97 | 1131484 | 120.1 | |
| 90 Hexachloropropene | 213 | 5.270 | 5.269 | 0.001 | 84 | 961221 | 123.1 | |
| 92 Quinoline | 129 | 5.487 | 5.486 | 0.001 | 97 | 2790922 | 118.6 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.493 | 5.492 | 0.001 | 92 | 994091 | 121.3 | |
| 95 p-Phenylene diamine | 108 | 5.540 | 5.545 | -0.005 | 97 | 2062964 | 121.9 | |
| 98 Safrole, Total | 162 | 5.681 | 5.686 | -0.005 | 88 | 1165219 | 121.9 | |
| 107 Isosafrole Peak 1 | 162 | 5.928 | 5.927 | 0.001 | 92 | 212023 | 21.0 | |
| 111 Isosafrole Peak 2 | 104 | 6.116 | 6.115 | 0.001 | 93 | 432272 | 96.3 | |
| 115 1-Chloronaphthalene | 162 | 6.210 | 6.209 | 0.001 | 97 | 2543599 | 115.7 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.339 | 6.338 | 0.001 | 86 | 929724 | 126.2 | |
| 118 1,4-Dinitrobenzene | 168 | 6.386 | 6.391 | -0.005 | 88 | 467733 | 127.8 | |
| 129 Pentachlorobenzene | 250 | 6.786 | 6.790 | -0.004 | 94 | 1313092 | 116.7 | |
| 133 1-Naphthylamine | 143 | 6.898 | 6.902 | -0.004 | 98 | 2918840 | 117.3 | |
| 137 2-Naphthylamine | 143 | 6.962 | 6.966 | -0.005 | 94 | 2942275 | 116.2 | |
| 141 Thionazin | 97 | 7.044 | 7.049 | -0.005 | 79 | 739297 | 120.1 | |
| 145 N-Nitro-o-toluidine | 152 | 7.127 | 7.131 | -0.004 | 96 | 952817 | 120.3 | |
| 149 Diphenylamine | 169 | 7.197 | 7.196 | 0.001 | 92 | 2671453 | 117.5 | |
| 154 Sulfotepp | 97 | 7.279 | 7.284 | -0.005 | 87 | 541357 | 122.1 | |
| 158 Diallate Peak 1 | 86 | 7.409 | 7.413 | -0.004 | 93 | 1237956 | 106.6 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.426 | 7.425 | 0.001 | 70 | 340469 | 124.4 | |
| 160 Phorate | 121 | 7.420 | 7.425 | -0.005 | 92 | 609806 | 121.2 | |
| 161 Phenacetin | 108 | 7.450 | 7.454 | -0.004 | 91 | 1606041 | 123.0 | |
| 163 Diallate Peak 2 | 86 | 7.491 | 7.489 | 0.002 | 93 | 181898 | 14.2 | |
| 166 Dimethoate | 87 | 7.591 | 7.595 | -0.004 | 97 | 1241586 | 120.8 | |
| 170 4-Aminobiphenyl | 169 | 7.738 | 7.736 | 0.002 | 86 | 3438166 | 120.0 | |
| 172 Pronamide | 173 | 7.750 | 7.754 | -0.004 | 85 | 1320485 | 120.8 | |
| 173 Pentachloronitrobenzene | 237 | 7.750 | 7.748 | 0.002 | 86 | 376769 | 119.4 | |
| 174 Disulfoton | 88 | 7.861 | 7.860 | 0.001 | 92 | 1708084 | 121.9 | |
| 175 Dinoseb | 211 | 7.867 | 7.871 | -0.004 | 96 | 845826 | 125.1 | |
| 180 Methyl parathion | 109 | 8.190 | 8.195 | -0.005 | 93 | 1009529 | 123.7 | |
| 183 Ethyl Parathion | 109 | 8.513 | 8.518 | -0.005 | 87 | 676387 | 128.2 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.613 | 8.617 | -0.005 | 91 | 421194 | 128.1 | |
| 185 Methapyrilene | 97 | 8.619 | 8.623 | -0.004 | 93 | 1241274 | 119.6 | |
| 187 Isodrin | 193 | 8.854 | 8.853 | 0.001 | 93 | 529586 | 122.1 | |
| 192 Aramite Peak 1 | 185 | 9.371 | 9.375 | -0.004 | 91 | 204164 | 60.9 | |
| 193 Aramite Peak 2 | 185 | 9.471 | 9.475 | -0.004 | 95 | 236834 | 68.8 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.647 | 9.652 | -0.005 | 94 | 1441174 | 123.8 | |
| 195 Chlorobenzilate | 251 | 9.683 | 9.687 | -0.004 | 93 | 1476369 | 122.8 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.182 | 10.186 | -0.004 | 96 | 2887032 | 121.2 | |
| 202 2-Acetylaminofluorene | 181 | 10.640 | 10.650 | -0.010 | 92 | 1894258 | 132.6 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.216 | 11.220 | -0.004 | 85 | 862912 | 127.2 | |
| 208 6-Methylchrysene | 242 | 12.374 | 12.384 | -0.010 | 98 | 3410754 | 123.5 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.913 | 13.929 | -0.016 | 81 | 2457823 | 126.6 | |
| 217 3-Methylcholanthrene | 268 | 15.940 | 15.956 | -0.016 | 69 | 2517577 | 130.0 | |
| 219 Dibenz[a,h]acridine | 279 | 17.661 | 17.671 | -0.011 | 70 | 3799427 | 130.0 | |
| 220 Dibenz[a,j]acridine | 279 | 17.814 | 17.842 | -0.028 | 99 | 3917669 | 127.7 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 129.7 | |
| S 228 Diallate | 86 | | | | 0 | | 120.8 | |
| S 229 Isosafrole | 162 | | | | 0 | | 117.3 | |

QC Flag Legend

Review Flags
M - Manually Integrated

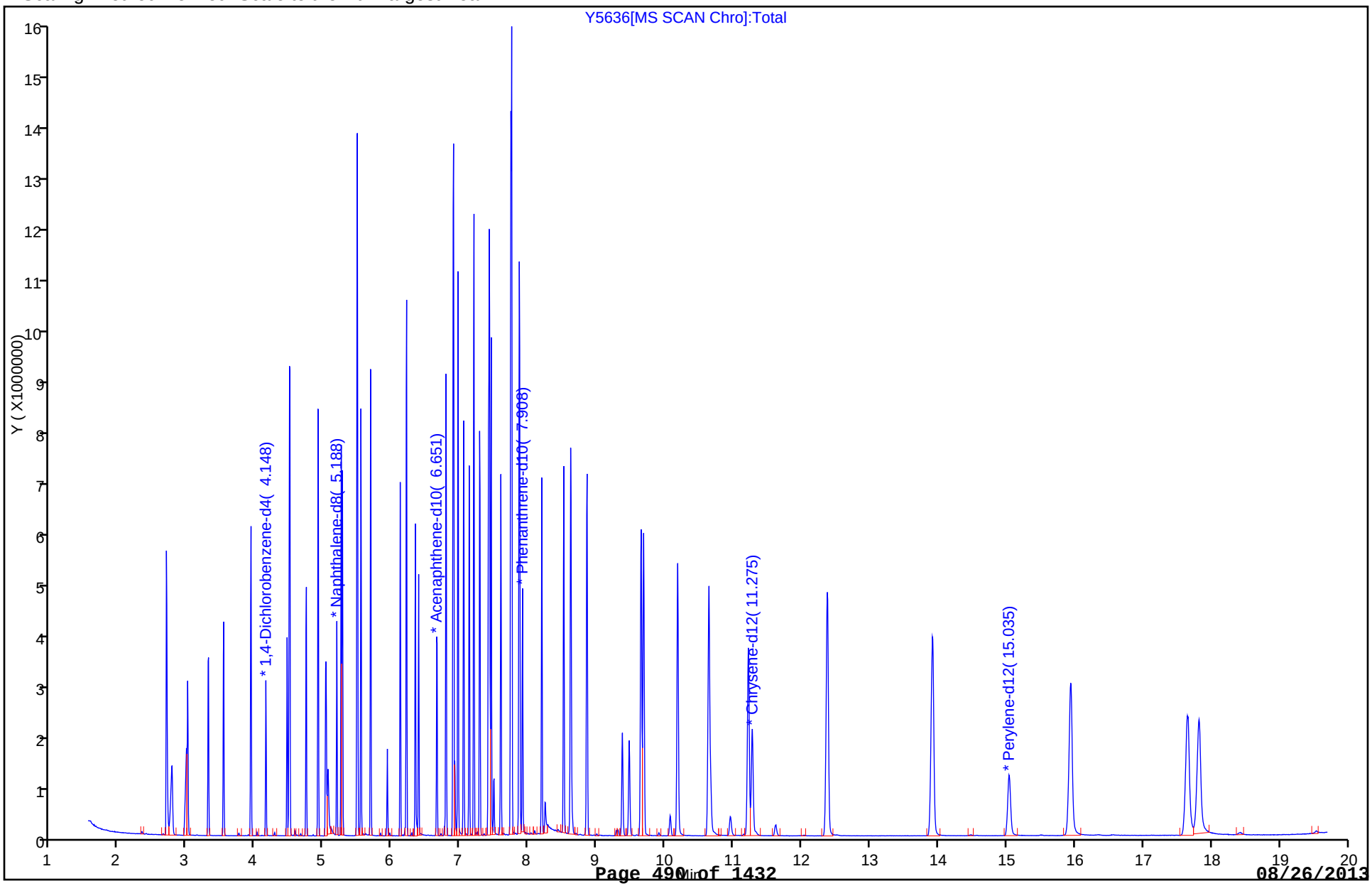
Report Date: 07-Aug-2013 06:36:05 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5636.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 09:12:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 4 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

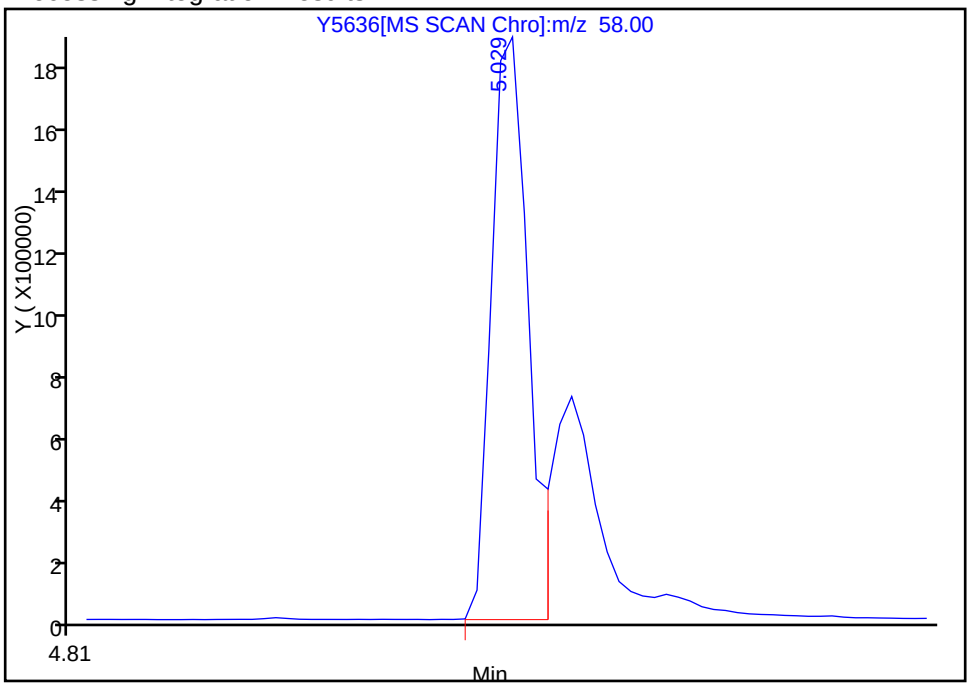
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5636.D | | |
| Injection Date: | 06-Aug-2013 09:12:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 4 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

81 alpha,alpha-Dimethyl phenethylamine, Signal: 1, m/z: 58.0 Type: quant, RT: 5.03

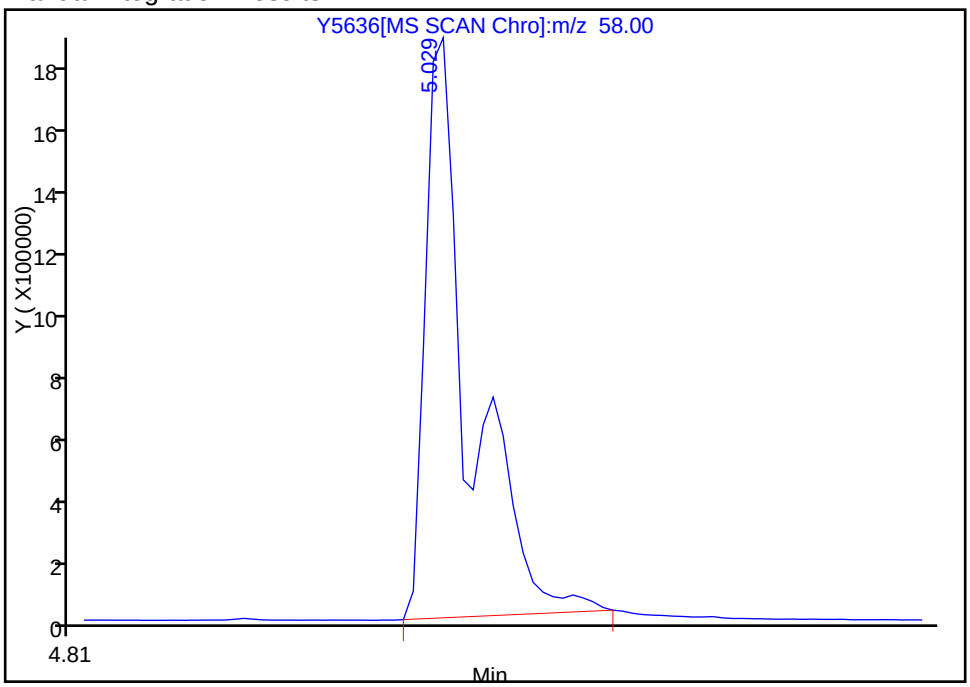
Processing Integration Results

RT: 5.03
Response: 2349075
Amount: 88.528401




Manual Integration Results

RT: 5.03
Response: 3310706
Amount: 119.6086




Reviewer: hoffmanm, 06-Aug-2013 11:43:41
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5637.D
Lims ID: IC AP9080 Client ID:
Inject. Date: 06-Aug-2013 09:38:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: IC AP9080
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 5
Lims Batch ID: 185961 Lims Sample ID: 5
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:06 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 11:44:05

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.146 | 4.146 | 0.0 | 97 | 354554 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.186 | 5.186 | 0.0 | 100 | 1383384 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.655 | 6.655 | 0.0 | 89 | 817137 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.907 | 7.907 | 0.0 | 97 | 1377736 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.273 | 11.279 | -0.006 | 80 | 1542960 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.040 | 15.039 | 0.001 | 98 | 1453259 | 40.0 | |
| 31 2-Picoline | 93 | 2.695 | 2.689 | 0.006 | 95 | 1154549 | 80.5 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.772 | 2.771 | 0.001 | 89 | 498191 | 80.0 | |
| 33 Acrylamide | 71 | 2.977 | 2.995 | -0.018 | 78 | 439304 | 81.3 | |
| 34 Methyl methanesulfonate | 80 | 3.001 | 3.006 | -0.005 | 86 | 636824 | 81.1 | |
| 35 N-Nitrosodiethylamine | 102 | 3.306 | 3.306 | 0.0 | 93 | 495467 | 80.8 | |
| 37 Ethyl methanesulfonate | 79 | 3.530 | 3.529 | 0.001 | 98 | 800892 | 80.7 | |
| 46 Pentachloroethane | 117 | 3.929 | 3.929 | 0.0 | 87 | 383954 | 81.8 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.458 | 4.463 | -0.006 | 94 | 548886 | 81.8 | |
| 64 N-Nitrosomorpholine | 116 | 4.487 | 4.487 | 0.0 | 92 | 230911 | 82.5 | |
| 65 2-Toluidine | 106 | 4.499 | 4.499 | 0.0 | 86 | 1584851 | 81.9 | |
| 70 N-Nitrosopiperidine | 114 | 4.740 | 4.740 | 0.0 | 83 | 522025 | 80.5 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.916 | 4.916 | 0.0 | 84 | 476166 | 79.6 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.028 | 5.028 | 0.0 | 97 | 2272955 | 81.5 | |
| 89 2,6-Dichlorophenol | 162 | 5.251 | 5.251 | 0.0 | 97 | 754877 | 79.5 | |
| 90 Hexachloropropene | 213 | 5.269 | 5.269 | 0.0 | 85 | 643679 | 81.8 | |
| 92 Quinoline | 129 | 5.486 | 5.486 | 0.0 | 96 | 1923689 | 82.3 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.492 | 5.492 | 0.0 | 92 | 666913 | 80.8 | |
| 95 p-Phenylene diamine | 108 | 5.539 | 5.545 | -0.006 | 98 | 1387916 | 81.4 | |
| 98 Safrole, Total | 162 | 5.686 | 5.686 | 0.0 | 90 | 778829 | 80.9 | |
| 107 Isosafrole Peak 1 | 162 | 5.927 | 5.927 | 0.0 | 91 | 138270 | 14.0 | |
| 111 Isosafrole Peak 2 | 104 | 6.115 | 6.115 | 0.0 | 93 | 290988 | 66.4 | |
| 115 1-Chloronaphthalene | 162 | 6.209 | 6.209 | 0.0 | 97 | 1738088 | 81.0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.338 | 6.338 | 0.0 | 84 | 618938 | 86.1 | |
| 118 1,4-Dinitrobenzene | 168 | 6.385 | 6.391 | -0.006 | 88 | 301834 | 84.5 | |
| 129 Pentachlorobenzene | 250 | 6.790 | 6.790 | 0.0 | 94 | 888426 | 80.9 | |
| 133 1-Naphthylamine | 143 | 6.896 | 6.902 | -0.006 | 98 | 1978707 | 81.5 | |
| 137 2-Naphthylamine | 143 | 6.961 | 6.966 | -0.006 | 89 | 2019373 | 81.7 | |
| 141 Thionazin | 97 | 7.043 | 7.049 | -0.006 | 81 | 489911 | 81.6 | |
| 145 N-Nitro-o-toluidine | 152 | 7.125 | 7.131 | -0.006 | 96 | 641857 | 83.0 | |
| 149 Diphenylamine | 169 | 7.196 | 7.196 | 0.0 | 91 | 1811876 | 81.7 | |
| 154 Sulfotepp | 97 | 7.278 | 7.284 | -0.006 | 86 | 365585 | 83.1 | |
| 158 Diallate Peak 1 | 86 | 7.407 | 7.413 | -0.006 | 93 | 830122 | 72.1 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.425 | 7.425 | 0.0 | 69 | 218342 | 82.2 | |
| 160 Phorate | 121 | 7.425 | 7.425 | 0.0 | 91 | 414942 | 83.1 | |
| 161 Phenacetin | 108 | 7.449 | 7.454 | -0.006 | 93 | 1075383 | 83.0 | |
| 163 Diallate Peak 2 | 86 | 7.490 | 7.489 | 0.001 | 92 | 122295 | 9.63 | |
| 166 Dimethoate | 87 | 7.590 | 7.595 | -0.005 | 97 | 848814 | 83.2 | |
| 170 4-Aminobiphenyl | 169 | 7.736 | 7.736 | 0.0 | 86 | 2363277 | 83.2 | |
| 172 Pronamide | 173 | 7.748 | 7.754 | -0.006 | 84 | 908886 | 83.8 | |
| 173 Pentachloronitrobenzene | 237 | 7.748 | 7.748 | 0.0 | 88 | 254720 | 81.4 | |
| 174 Disulfoton | 88 | 7.860 | 7.860 | 0.0 | 93 | 1140824 | 82.1 | |
| 175 Dinoseb | 211 | 7.866 | 7.871 | -0.005 | 93 | 530956 | 80.9 | |
| 180 Methyl parathion | 109 | 8.189 | 8.195 | -0.006 | 93 | 682946 | 84.4 | |
| 183 Ethyl Parathion | 109 | 8.512 | 8.518 | -0.006 | 87 | 449581 | 85.9 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.612 | 8.617 | -0.006 | 93 | 263047 | 82.4 | |
| 185 Methapyrilene | 97 | 8.618 | 8.623 | -0.005 | 93 | 903057 | 78.3 | |
| 187 Isodrin | 193 | 8.853 | 8.853 | 0.0 | 93 | 356137 | 82.7 | |
| 192 Aramite Peak 1 | 185 | 9.370 | 9.375 | -0.005 | 93 | 132051 | 39.9 | |
| 193 Aramite Peak 2 | 185 | 9.470 | 9.475 | -0.005 | 94 | 157065 | 46.2 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.646 | 9.652 | -0.006 | 94 | 967145 | 84.2 | |
| 195 Chlorobenzilate | 251 | 9.681 | 9.687 | -0.006 | 93 | 985628 | 83.1 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.181 | 10.186 | -0.005 | 96 | 1975507 | 84.0 | |
| 202 2-Acetylaminofluorene | 181 | 10.639 | 10.650 | -0.011 | 92 | 1230810 | 87.3 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.215 | 11.220 | -0.005 | 87 | 566585 | 84.6 | |
| 208 6-Methylchrysene | 242 | 12.372 | 12.384 | -0.012 | 98 | 2252057 | 82.6 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.912 | 13.929 | -0.017 | 82 | 1617394 | 84.3 | |
| 217 3-Methylcholanthrene | 268 | 15.939 | 15.956 | -0.017 | 66 | 1629246 | 85.1 | |
| 219 Dibenz[a,h]acridine | 279 | 17.648 | 17.671 | -0.024 | 60 | 2438612 | 84.4 | |
| 220 Dibenz[a,j]acridine | 279 | 17.813 | 17.842 | -0.029 | 99 | 2455854 | 81.0 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 86.1 | |
| S 228 Diallate | 86 | | | | 0 | | 81.7 | |
| S 229 Isosafrole | 162 | | | | 0 | | 80.4 | |

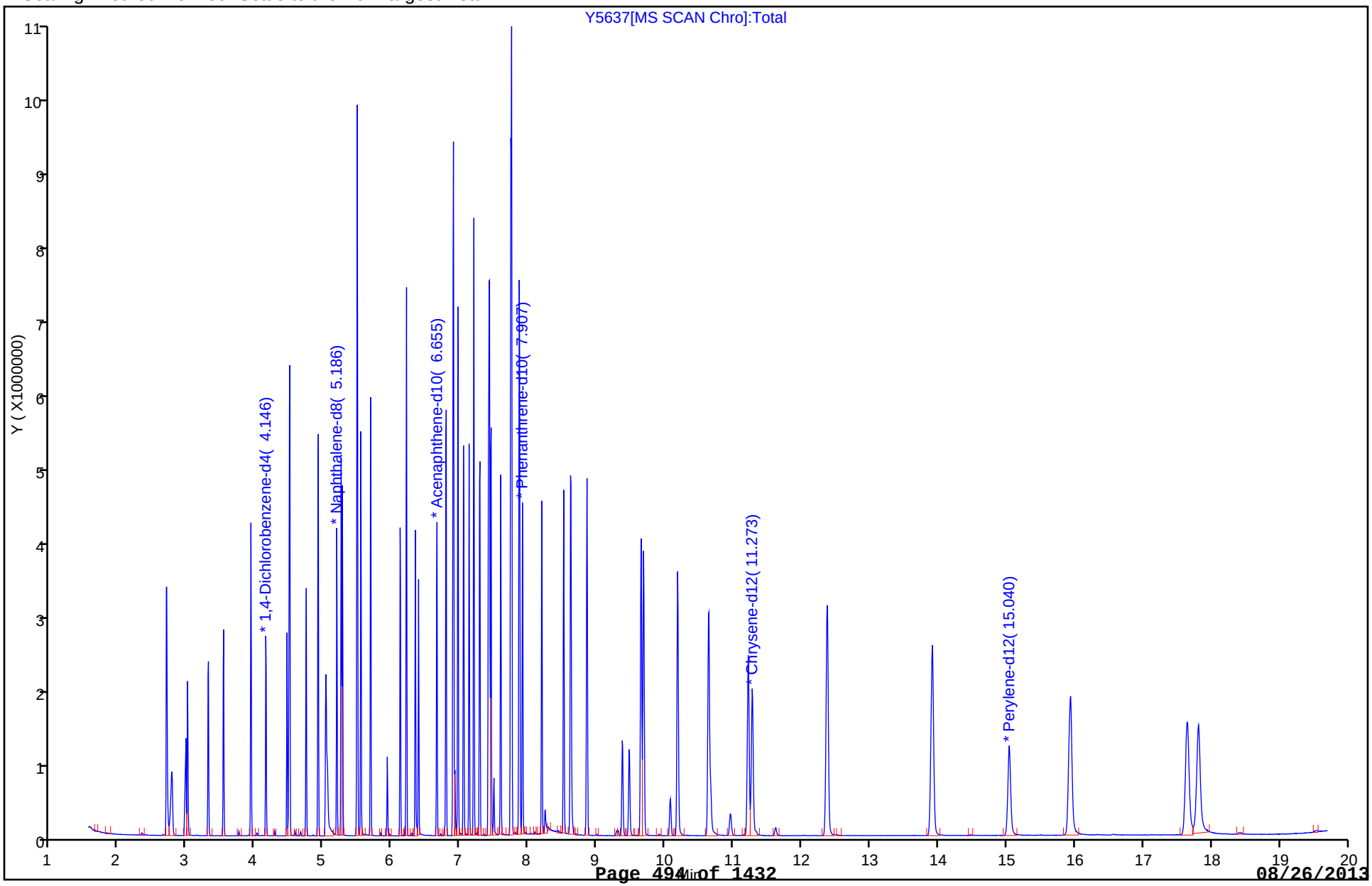
Report Date: 07-Aug-2013 06:36:06 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5637.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 09:38:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 5 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5638.D
Lims ID: IC AP9050 Client ID:
Inject. Date: 06-Aug-2013 10:04:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: IC AP9050
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 6
Lims Batch ID: 185961 Lims Sample ID: 6
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:07 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 11:45:13

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.148 | 4.146 | 0.002 | 96 | 346086 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.188 | 5.186 | 0.002 | 99 | 1331369 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.651 | 6.655 | -0.004 | 91 | 791246 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.909 | 7.907 | 0.002 | 97 | 1357144 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.275 | 11.279 | -0.004 | 80 | 1537726 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.041 | 15.039 | 0.002 | 98 | 1447009 | 40.0 | |
| 31 2-Picoline | 93 | 2.697 | 2.689 | 0.008 | 95 | 709001 | 50.7 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.773 | 2.771 | 0.002 | 89 | 307431 | 50.6 | |
| 33 Acrylamide | 71 | 2.967 | 2.995 | -0.028 | 82 | 271598 | 51.5 | |
| 34 Methyl methanesulfonate | 80 | 3.003 | 3.006 | -0.003 | 87 | 394696 | 51.5 | |
| 35 N-Nitrosodiethylamine | 102 | 3.302 | 3.306 | -0.004 | 96 | 308501 | 51.6 | |
| 37 Ethyl methanesulfonate | 79 | 3.525 | 3.529 | -0.004 | 98 | 489528 | 50.5 | |
| 46 Pentachloroethane | 117 | 3.931 | 3.929 | 0.002 | 88 | 230175 | 50.2 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.460 | 4.463 | -0.004 | 95 | 331366 | 50.6 | |
| 64 N-Nitrosomorpholine | 116 | 4.483 | 4.487 | -0.004 | 94 | 135322 | 49.5 | |
| 65 2-Toluidine | 106 | 4.495 | 4.499 | -0.004 | 86 | 971877 | 51.4 | |
| 70 N-Nitrosopiperidine | 114 | 4.736 | 4.740 | -0.004 | 83 | 315291 | 50.5 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.912 | 4.916 | -0.004 | 89 | 294254 | 51.1 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.030 | 5.028 | 0.002 | 97 | 1391189 | 51.9 | |
| 89 2,6-Dichlorophenol | 162 | 5.253 | 5.251 | 0.002 | 97 | 467704 | 51.2 | |
| 90 Hexachloropropene | 213 | 5.270 | 5.269 | 0.001 | 85 | 390281 | 51.5 | |
| 92 Quinoline | 129 | 5.482 | 5.486 | -0.004 | 97 | 1201819 | 52.7 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.488 | 5.492 | -0.004 | 81 | 410167 | 51.7 | |
| 95 p-Phenylene diamine | 108 | 5.541 | 5.545 | -0.004 | 98 | 857536 | 52.3 | |
| 98 Safrole, Total | 162 | 5.682 | 5.686 | -0.004 | 89 | 471380 | 50.9 | |
| 107 Isosafrole Peak 1 | 162 | 5.929 | 5.927 | 0.002 | 90 | 82857 | 8.68 | |
| 111 Isosafrole Peak 2 | 104 | 6.117 | 6.115 | 0.002 | 93 | 179859 | 42.4 | |
| 115 1-Chloronaphthalene | 162 | 6.211 | 6.209 | 0.002 | 98 | 1071131 | 51.6 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.340 | 6.338 | 0.002 | 86 | 375666 | 54.0 | |
| 118 1,4-Dinitrobenzene | 168 | 6.387 | 6.391 | -0.004 | 89 | 176282 | 51.0 | |
| 129 Pentachlorobenzene | 250 | 6.786 | 6.790 | -0.004 | 94 | 546201 | 51.4 | |
| 133 1-Naphthylamine | 143 | 6.898 | 6.902 | -0.004 | 98 | 1240695 | 52.8 | |
| 137 2-Naphthylamine | 143 | 6.963 | 6.966 | -0.004 | 88 | 1243119 | 52.0 | |
| 141 Thionazin | 97 | 7.045 | 7.049 | -0.004 | 81 | 296301 | 51.0 | |
| 145 N-Nitro-o-toluidine | 152 | 7.127 | 7.131 | -0.004 | 96 | 383443 | 51.2 | |
| 149 Diphenylamine | 169 | 7.192 | 7.196 | -0.004 | 91 | 1115012 | 51.9 | |
| 154 Sulfotepp | 97 | 7.280 | 7.284 | -0.004 | 87 | 222169 | 51.3 | |
| 158 Diallate Peak 1 | 86 | 7.409 | 7.413 | -0.004 | 93 | 501409 | 44.2 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.421 | 7.425 | -0.004 | 67 | 124102 | 49.6 | |
| 160 Phorate | 121 | 7.421 | 7.425 | -0.004 | 91 | 260790 | 53.0 | |
| 161 Phenacetin | 108 | 7.444 | 7.454 | -0.010 | 91 | 656178 | 51.4 | |
| 163 Diallate Peak 2 | 86 | 7.486 | 7.489 | -0.003 | 90 | 72720 | 5.82 | |
| 166 Dimethoate | 87 | 7.585 | 7.595 | -0.010 | 97 | 534388 | 53.2 | |
| 170 4-Aminobiphenyl | 169 | 7.732 | 7.736 | -0.004 | 86 | 1475321 | 52.7 | |
| 172 Pronamide | 173 | 7.750 | 7.754 | -0.004 | 85 | 554073 | 51.9 | |
| 173 Pentachloronitrobenzene | 237 | 7.744 | 7.748 | -0.004 | 81 | 156904 | 50.9 | |
| 174 Disulfoton | 88 | 7.856 | 7.860 | -0.004 | 95 | 709988 | 51.9 | |
| 175 Dinoseb | 211 | 7.867 | 7.871 | -0.004 | 97 | 308144 | 49.6 | |
| 180 Methyl parathion | 109 | 8.191 | 8.195 | -0.004 | 93 | 427249 | 53.6 | |
| 183 Ethyl Parathion | 109 | 8.514 | 8.518 | -0.004 | 88 | 267385 | 51.9 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.614 | 8.617 | -0.004 | 89 | 145506 | 48.4 | |
| 185 Methapyrilene | 97 | 8.620 | 8.623 | -0.003 | 93 | 603684 | 49.7 | |
| 187 Isodrin | 193 | 8.855 | 8.853 | 0.002 | 93 | 213700 | 50.4 | |
| 192 Aramite Peak 1 | 185 | 9.372 | 9.375 | -0.003 | 93 | 76114 | 23.1 | |
| 193 Aramite Peak 2 | 185 | 9.471 | 9.475 | -0.004 | 94 | 91771 | 27.1 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.642 | 9.652 | -0.010 | 94 | 582906 | 50.9 | |
| 195 Chlorobenzilate | 251 | 9.683 | 9.687 | -0.004 | 93 | 590110 | 49.9 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.182 | 10.186 | -0.004 | 96 | 1226163 | 52.3 | |
| 202 2-Acetylaminofluorene | 181 | 10.629 | 10.650 | -0.021 | 92 | 716140 | 50.9 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.216 | 11.220 | -0.004 | 85 | 345622 | 51.8 | |
| 208 6-Methylchrysene | 242 | 12.368 | 12.384 | -0.016 | 98 | 1355271 | 49.9 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.913 | 13.929 | -0.016 | 80 | 962718 | 50.4 | |
| 217 3-Methylcholanthrene | 268 | 15.929 | 15.956 | -0.027 | 67 | 957357 | 50.2 | |
| 219 Dibenz[a,h]acridine | 279 | 17.638 | 17.671 | -0.034 | 54 | 1449701 | 50.4 | |
| 220 Dibenz[a,j]acridine | 279 | 17.809 | 17.842 | -0.033 | 99 | 1505986 | 49.9 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 50.2 | |
| S 228 Diallate | 86 | | | | 0 | | 50.0 | |
| S 229 Isosafrole | 162 | | | | 0 | | 51.1 | |

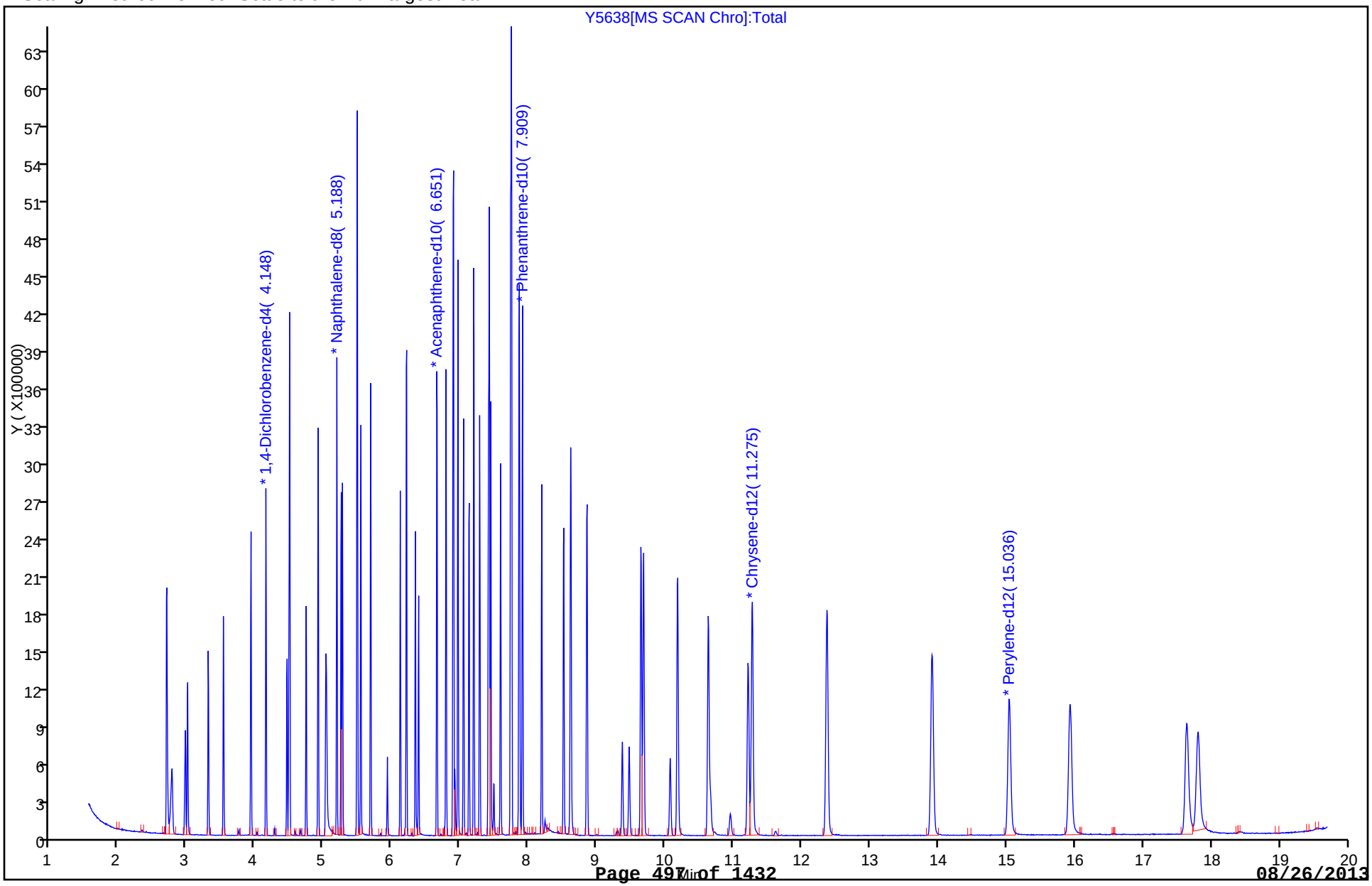
Report Date: 07-Aug-2013 06:36:07 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5638.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 10:04:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 6 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5639.D
Lims ID: IC AP9020 Client ID:
Inject. Date: 06-Aug-2013 10:31:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: IC AP9020
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 7
Lims Batch ID: 185961 Lims Sample ID: 7
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:08 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 11:45:40

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.151 | 4.146 | 0.005 | 96 | 351295 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.185 | 5.186 | -0.001 | 100 | 1344067 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.654 | 6.655 | -0.001 | 90 | 802943 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.906 | 7.907 | -0.001 | 97 | 1387227 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.272 | 11.279 | -0.007 | 84 | 1549595 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.038 | 15.039 | -0.001 | 98 | 1476058 | 40.0 | |
| 31 2-Picoline | 93 | 2.694 | 2.689 | 0.005 | 95 | 289217 | 20.4 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.770 | 2.771 | -0.001 | 81 | 123899 | 20.1 | |
| 33 Acrylamide | 71 | 2.958 | 2.995 | -0.037 | 82 | 101213 | 18.9 | |
| 34 Methyl methanesulfonate | 80 | 3.000 | 3.006 | -0.006 | 86 | 156731 | 20.1 | |
| 35 N-Nitrosodiethylamine | 102 | 3.305 | 3.306 | -0.001 | 95 | 120510 | 19.8 | |
| 37 Ethyl methanesulfonate | 79 | 3.528 | 3.529 | -0.001 | 98 | 201750 | 20.5 | |
| 46 Pentachloroethane | 117 | 3.928 | 3.929 | -0.001 | 89 | 95460 | 20.5 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.457 | 4.463 | -0.007 | 93 | 132281 | 19.9 | |
| 64 N-Nitrosomorpholine | 116 | 4.486 | 4.487 | -0.001 | 93 | 55274 | 19.9 | |
| 65 2-Toluidine | 106 | 4.498 | 4.499 | -0.001 | 86 | 384308 | 20.0 | |
| 70 N-Nitrosopiperidine | 114 | 4.739 | 4.740 | -0.001 | 81 | 126079 | 20.0 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.915 | 4.916 | -0.001 | 85 | 116108 | 20.0 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.027 | 5.028 | -0.001 | 97 | 560474 | 20.7 | |
| 89 2,6-Dichlorophenol | 162 | 5.250 | 5.251 | -0.001 | 96 | 187355 | 20.3 | |
| 90 Hexachloropropene | 213 | 5.273 | 5.269 | 0.004 | 84 | 152725 | 20.0 | |
| 92 Quinoline | 129 | 5.485 | 5.486 | -0.001 | 97 | 478403 | 20.7 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.491 | 5.492 | -0.001 | 89 | 160483 | 20.0 | |
| 95 p-Phenylene diamine | 108 | 5.538 | 5.545 | -0.007 | 98 | 340123 | 20.5 | |
| 98 Safrole, Total | 162 | 5.685 | 5.686 | -0.001 | 89 | 188849 | 20.2 | |
| 107 Isosafrole Peak 1 | 162 | 5.931 | 5.927 | 0.004 | 88 | 33549 | 3.46 | |
| 111 Isosafrole Peak 2 | 104 | 6.119 | 6.115 | 0.004 | 94 | 71847 | 16.7 | |
| 115 1-Chloronaphthalene | 162 | 6.208 | 6.209 | -0.001 | 97 | 434276 | 20.6 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.337 | 6.338 | -0.001 | 83 | 137342 | 19.4 | |
| 118 1,4-Dinitrobenzene | 168 | 6.384 | 6.391 | -0.007 | 87 | 63892 | 18.2 | |
| 129 Pentachlorobenzene | 250 | 6.789 | 6.790 | -0.001 | 94 | 218567 | 20.3 | |
| 133 1-Naphthylamine | 143 | 6.895 | 6.902 | -0.007 | 98 | 493821 | 20.7 | |
| 137 2-Naphthylamine | 143 | 6.960 | 6.966 | -0.007 | 95 | 500482 | 20.6 | |
| 141 Thionazin | 97 | 7.042 | 7.049 | -0.007 | 81 | 118787 | 20.1 | |
| 145 N-Nitro-o-toluidine | 152 | 7.124 | 7.131 | -0.007 | 96 | 147469 | 19.4 | |
| 149 Diphenylamine | 169 | 7.195 | 7.196 | -0.001 | 92 | 444208 | 20.4 | |
| 154 Sulfotepp | 97 | 7.277 | 7.284 | -0.007 | 85 | 89255 | 20.2 | |
| 158 Diallate Peak 1 | 86 | 7.406 | 7.413 | -0.007 | 92 | 200872 | 17.3 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.424 | 7.425 | -0.001 | 60 | 37830 | 18.4 | |
| 160 Phorate | 121 | 7.424 | 7.425 | -0.001 | 92 | 98730 | 19.6 | |
| 161 Phenacetin | 108 | 7.441 | 7.454 | -0.013 | 92 | 252438 | 19.4 | |
| 163 Diallate Peak 2 | 86 | 7.488 | 7.489 | -0.001 | 86 | 31168 | 2.44 | |
| 166 Dimethoate | 87 | 7.582 | 7.595 | -0.013 | 97 | 220402 | 21.5 | |
| 170 4-Aminobiphenyl | 169 | 7.735 | 7.736 | -0.001 | 85 | 586442 | 20.5 | |
| 172 Pronamide | 173 | 7.747 | 7.754 | -0.007 | 86 | 222085 | 20.3 | |
| 173 Pentachloronitrobenzene | 237 | 7.747 | 7.748 | -0.001 | 57 | 66466 | 21.1 | |
| 174 Disulfoton | 88 | 7.859 | 7.860 | -0.001 | 93 | 276135 | 19.7 | |
| 175 Dinoseb | 211 | 7.864 | 7.871 | -0.007 | 90 | 94811 | 18.3 | |
| 180 Methyl parathion | 109 | 8.188 | 8.195 | -0.007 | 92 | 168660 | 20.7 | |
| 183 Ethyl Parathion | 109 | 8.511 | 8.518 | -0.007 | 84 | 97926 | 18.6 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.611 | 8.617 | -0.007 | 72 | 45968 | 18.3 | |
| 185 Methapyrilene | 97 | 8.617 | 8.623 | -0.006 | 93 | 263204 | 20.2 | |
| 187 Isodrin | 193 | 8.852 | 8.853 | -0.001 | 92 | 84506 | 19.5 | |
| 192 Aramite Peak 1 | 185 | 9.369 | 9.375 | -0.006 | 91 | 26484 | 7.97 | |
| 193 Aramite Peak 2 | 185 | 9.474 | 9.475 | -0.001 | 93 | 33196 | 9.72 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.645 | 9.652 | -0.007 | 93 | 218523 | 18.9 | |
| 195 Chlorobenzilate | 251 | 9.680 | 9.687 | -0.007 | 90 | 223398 | 18.7 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.179 | 10.186 | -0.007 | 97 | 478412 | 20.3 | |
| 202 2-Acetylaminofluorene | 181 | 10.626 | 10.650 | -0.024 | 92 | 247708 | 17.5 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.214 | 11.220 | -0.006 | 86 | 125123 | 18.6 | |
| 208 6-Methylchrysene | 242 | 12.365 | 12.384 | -0.019 | 97 | 525592 | 19.2 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.904 | 13.929 | -0.025 | 81 | 360344 | 18.5 | |
| 217 3-Methylcholanthrene | 268 | 15.926 | 15.956 | -0.030 | 68 | 337760 | 17.4 | |
| 219 Dibenz[a,h]acridine | 279 | 17.635 | 17.671 | -0.037 | 43 | 519039 | 17.7 | |
| 220 Dibenz[a,j]acridine | 279 | 17.794 | 17.842 | -0.048 | 99 | 576805 | 18.7 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 17.7 | |
| S 228 Diallate | 86 | | | | 0 | | 19.8 | |
| S 229 Isosafrole | 162 | | | | 0 | | 20.2 | |

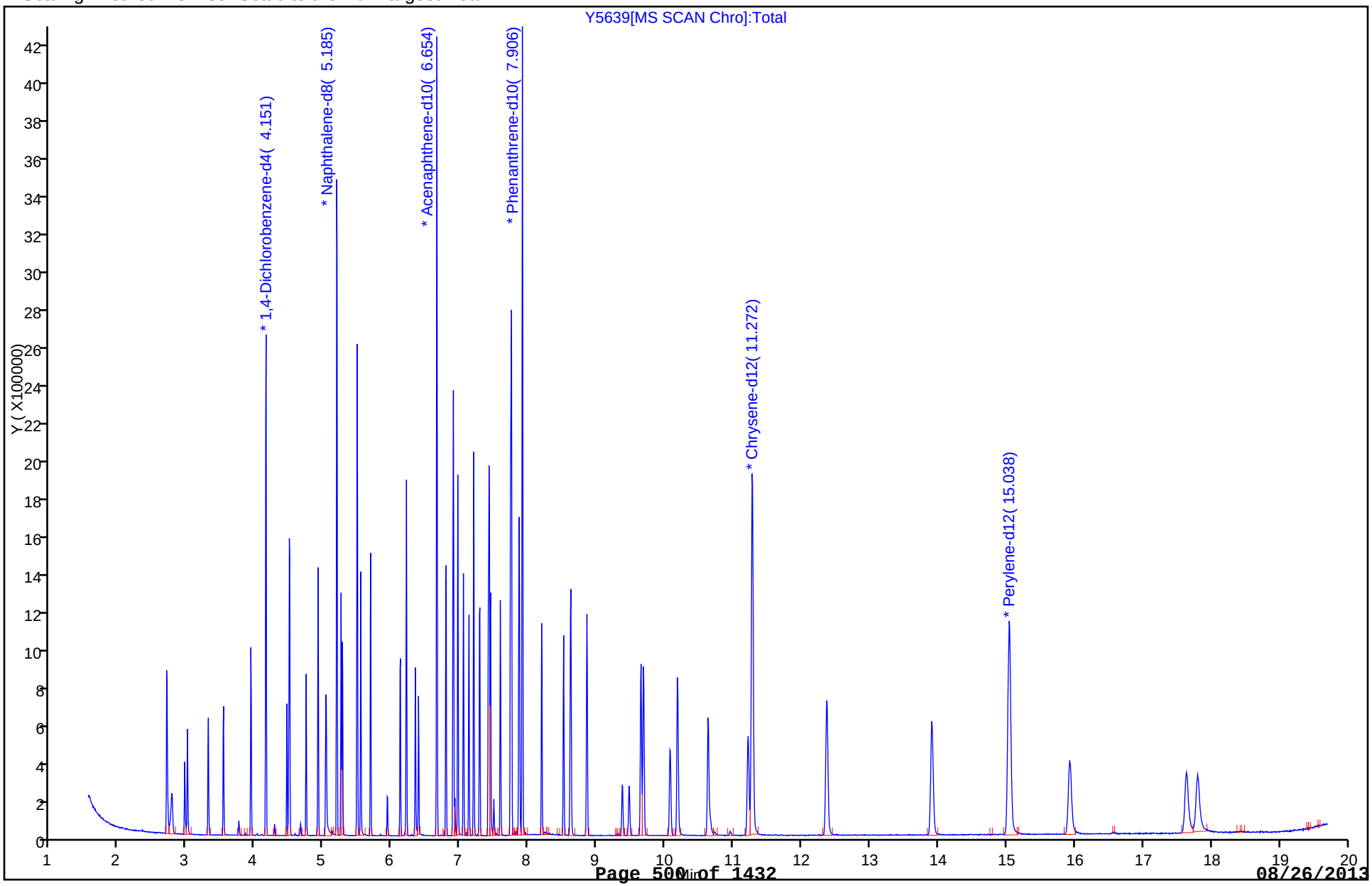
Report Date: 07-Aug-2013 06:36:08 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5639.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 10:31:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 7 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Lims ID: IC AP9010 Client ID:
Inject. Date: 06-Aug-2013 10:57:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: IC AP9010
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 8
Lims Batch ID: 185961 Lims Sample ID: 8
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:09 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 11:48:48

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.147 | 4.146 | 0.001 | 97 | 349822 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.187 | 5.186 | 0.001 | 99 | 1351357 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.656 | 6.655 | 0.001 | 90 | 796667 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.907 | 7.907 | 0.0 | 97 | 1371969 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.280 | 11.279 | 0.001 | 81 | 1533894 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.046 | 15.039 | 0.007 | 98 | 1448085 | 40.0 | |
| 31 2-Picoline | 93 | 2.696 | 2.689 | 0.007 | 94 | 143999 | 10.2 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.772 | 2.771 | 0.001 | 82 | 61708 | 10.0 | |
| 33 Acrylamide | 71 | 2.960 | 2.995 | -0.035 | 79 | 41860 | 7.85 | |
| 34 Methyl methanesulfonate | 80 | 3.001 | 3.006 | -0.005 | 85 | 81935 | 10.6 | |
| 35 N-Nitrosodiethylamine | 102 | 3.307 | 3.306 | 0.001 | 93 | 59489 | 9.84 | |
| 37 Ethyl methanesulfonate | 79 | 3.524 | 3.529 | -0.005 | 98 | 101790 | 10.4 | |
| 46 Pentachloroethane | 117 | 3.929 | 3.929 | 0.0 | 88 | 46218 | 9.98 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.458 | 4.463 | -0.006 | 95 | 64220 | 9.70 | |
| 64 N-Nitrosomorpholine | 116 | 4.488 | 4.487 | 0.001 | 90 | 28485 | 10.3 | |
| 65 2-Toluidine | 106 | 4.493 | 4.499 | -0.006 | 93 | 199366 | 10.4 | |
| 70 N-Nitrosopiperidine | 114 | 4.740 | 4.740 | 0.0 | 81 | 62947 | 9.93 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.916 | 4.916 | 0.0 | 83 | 59715 | 10.2 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.028 | 5.028 | 0.0 | 97 | 266071 | 9.77 | |
| 89 2,6-Dichlorophenol | 162 | 5.251 | 5.251 | 0.0 | 96 | 93002 | 10.0 | |
| 90 Hexachloropropene | 213 | 5.269 | 5.269 | 0.0 | 86 | 73619 | 9.58 | |
| 92 Quinoline | 129 | 5.486 | 5.486 | 0.0 | 97 | 240326 | 10.4 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.486 | 5.492 | -0.006 | 88 | 79502 | 9.86 | |
| 95 p-Phenylene diamine | 108 | 5.539 | 5.545 | -0.006 | 98 | 166545 | 10.0 | |
| 98 Safrole, Total | 162 | 5.680 | 5.686 | -0.006 | 88 | 94179 | 10.0 | |
| 107 Isosafrole Peak 1 | 162 | 5.927 | 5.927 | 0.0 | 87 | 16676 | 1.73 | |
| 111 Isosafrole Peak 2 | 104 | 6.115 | 6.115 | 0.0 | 92 | 35610 | 8.34 | |
| 115 1-Chloronaphthalene | 162 | 6.209 | 6.209 | 0.0 | 97 | 221244 | 10.6 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.338 | 6.338 | 0.0 | 84 | 56097 | 8.00 | |
| 118 1,4-Dinitrobenzene | 168 | 6.385 | 6.391 | -0.006 | 85 | 27123 | 7.79 | |
| 129 Pentachlorobenzene | 250 | 6.785 | 6.790 | -0.005 | 96 | 112596 | 10.5 | |
| 133 1-Naphthylamine | 143 | 6.896 | 6.902 | -0.006 | 98 | 245488 | 10.4 | |
| 137 2-Naphthylamine | 143 | 6.961 | 6.966 | -0.006 | 89 | 254633 | 10.6 | |
| 141 Thionazin | 97 | 7.043 | 7.049 | -0.006 | 81 | 57786 | 9.87 | |
| 145 N-Nitro-o-toluidine | 152 | 7.126 | 7.131 | -0.005 | 95 | 71497 | 9.49 | |
| 149 Diphenylamine | 169 | 7.196 | 7.196 | 0.0 | 97 | 225931 | 10.4 | |
| 154 Sulfotepp | 97 | 7.278 | 7.284 | -0.006 | 81 | 43010 | 9.82 | |
| 158 Diallate Peak 1 | 86 | 7.408 | 7.413 | -0.005 | 91 | 101294 | 8.83 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.425 | 7.425 | 0.0 | 40 | 14804 | 10.4 | |
| 160 Phorate | 121 | 7.419 | 7.425 | -0.006 | 86 | 46747 | 9.40 | |
| 161 Phenacetin | 108 | 7.437 | 7.454 | -0.017 | 88 | 120018 | 9.30 | |
| 163 Diallate Peak 2 | 86 | 7.490 | 7.489 | 0.001 | 70 | 14599 | 1.15 | |
| 166 Dimethoate | 87 | 7.584 | 7.595 | -0.011 | 96 | 106717 | 10.5 | |
| 170 4-Aminobiphenyl | 169 | 7.731 | 7.736 | -0.005 | 86 | 288176 | 10.2 | |
| 172 Pronamide | 173 | 7.748 | 7.754 | -0.006 | 86 | 107404 | 9.95 | |
| 173 Pentachloronitrobenzene | 237 | 7.748 | 7.748 | 0.0 | 56 | 33350 | 10.7 | |
| 174 Disulfoton | 88 | 7.854 | 7.860 | -0.006 | 93 | 134988 | 9.75 | |
| 175 Dinoseb | 211 | 7.866 | 7.871 | -0.005 | 92 | 38647 | 10.4 | |
| 180 Methyl parathion | 109 | 8.189 | 8.195 | -0.006 | 91 | 78825 | 9.78 | |
| 183 Ethyl Parathion | 109 | 8.512 | 8.518 | -0.006 | 83 | 44490 | 8.53 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.612 | 8.617 | -0.006 | 56 | 18983 | 10.4 | |
| 185 Methapyrilene | 97 | 8.618 | 8.623 | -0.005 | 90 | 130523 | 10.3 | |
| 187 Isodrin | 193 | 8.853 | 8.853 | 0.0 | 92 | 42178 | 9.84 | |
| 192 Aramite Peak 1 | 185 | 9.370 | 9.375 | -0.005 | 78 | 11713 | 3.56 | |
| 193 Aramite Peak 2 | 185 | 9.476 | 9.475 | 0.001 | 81 | 15272 | 4.52 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.646 | 9.652 | -0.006 | 92 | 100309 | 8.78 | |
| 195 Chlorobenzilate | 251 | 9.681 | 9.687 | -0.006 | 93 | 112995 | 9.58 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.181 | 10.186 | -0.005 | 97 | 221401 | 9.47 | |
| 202 2-Acetylaminofluorene | 181 | 10.627 | 10.650 | -0.023 | 89 | 98851 | 7.05 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.215 | 11.220 | -0.005 | 90 | 56311 | 8.46 | |
| 208 6-Methylchrysene | 242 | 12.372 | 12.384 | -0.012 | 96 | 250943 | 9.26 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.918 | 13.929 | -0.011 | 83 | 161600 | 8.45 | |
| 217 3-Methylcholanthrene | 268 | 15.927 | 15.956 | -0.029 | 60 | 147807 | 7.75 | |
| 219 Dibenz[a,h]acridine | 279 | 17.643 | 17.671 | -0.029 | 0 | 223968 | 7.78 | M |
| 220 Dibenz[a,j]acridine | 279 | 17.801 | 17.842 | -0.041 | 99 | 253155 | 8.38 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 8.08 | |
| S 228 Diallate | 86 | | | | 0 | | 9.98 | |
| S 229 Isosafrole | 162 | | | | 0 | | 10.1 | |

QC Flag Legend

Review Flags
M - Manually Integrated

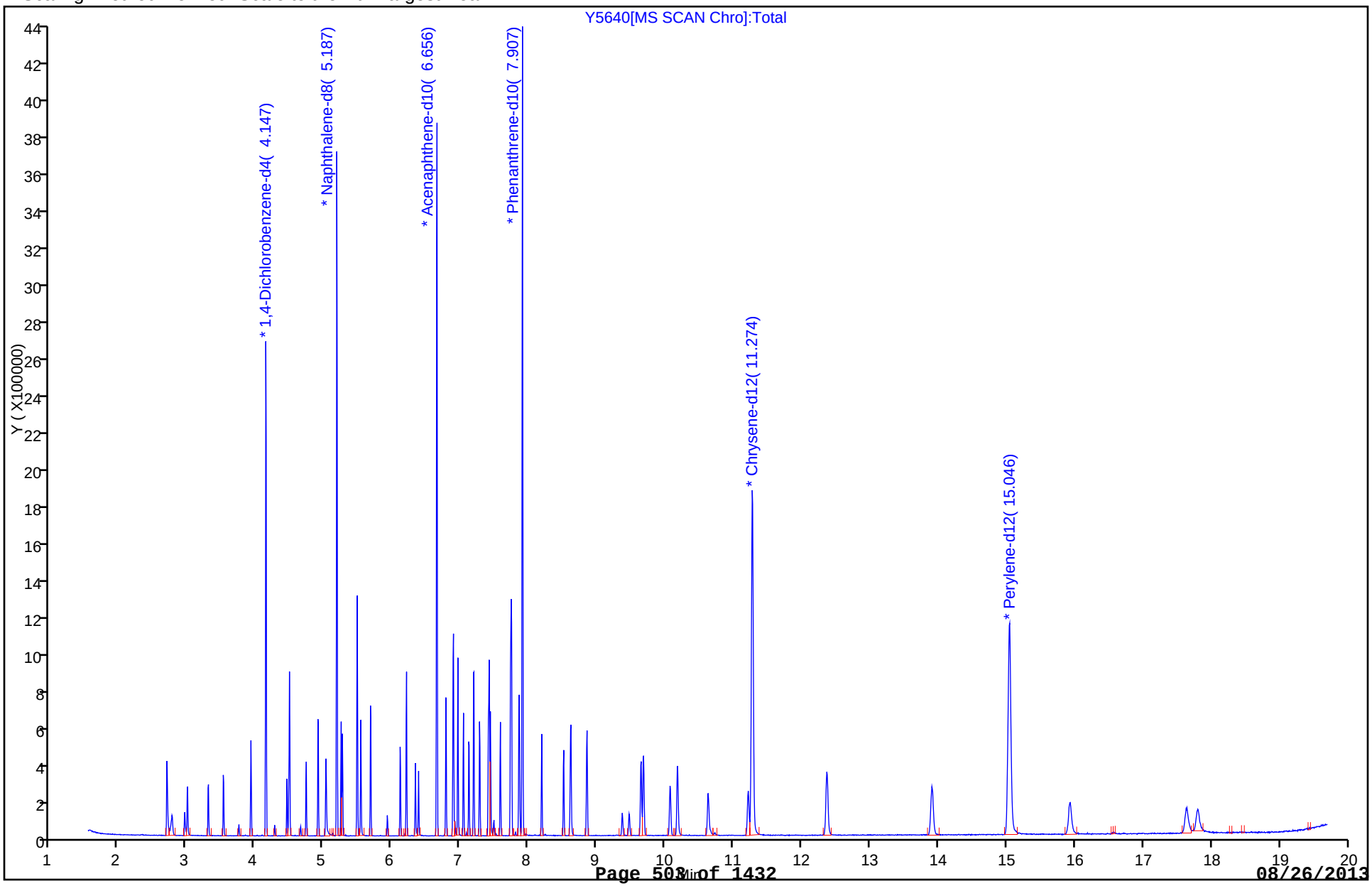
Report Date: 07-Aug-2013 06:36:09 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 10:57:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 8 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICV 280-177034/18 Calibration Date: 06/03/2013 20:32

Instrument ID: SMS_Y Calib Start Date: 06/03/2013 17:14

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/03/2013 20:03

Lab File ID: Y4767.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Benzaldehyde | Ave | 1.206 | 1.213 | | 101 | 100 | 0.6 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4767.D
Lims ID: ICV BZHD-SSV Client ID:
Inject. Date: 03-Jun-2013 20:32:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV BZHDSSV
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 17
Lims Batch ID: 177034 Lims Sample ID: 18
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 05-Jun-2013 08:49:02 Calib Date: 03-Jun-2013 20:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 04-Jun-2013 07:04:27

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.209 | 4.206 | 0.003 | 96 | 271398 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.232 | 5.234 | -0.002 | 100 | 1025998 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.701 | 6.703 | -0.002 | 85 | 585629 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.958 | 7.960 | -0.002 | 96 | 1000509 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.407 | 11.403 | 0.004 | 80 | 1063237 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.232 | 15.240 | -0.008 | 82 | 940647 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.880 | 3.880 | 0.003 | 92 | 822764 | 100.6 | |

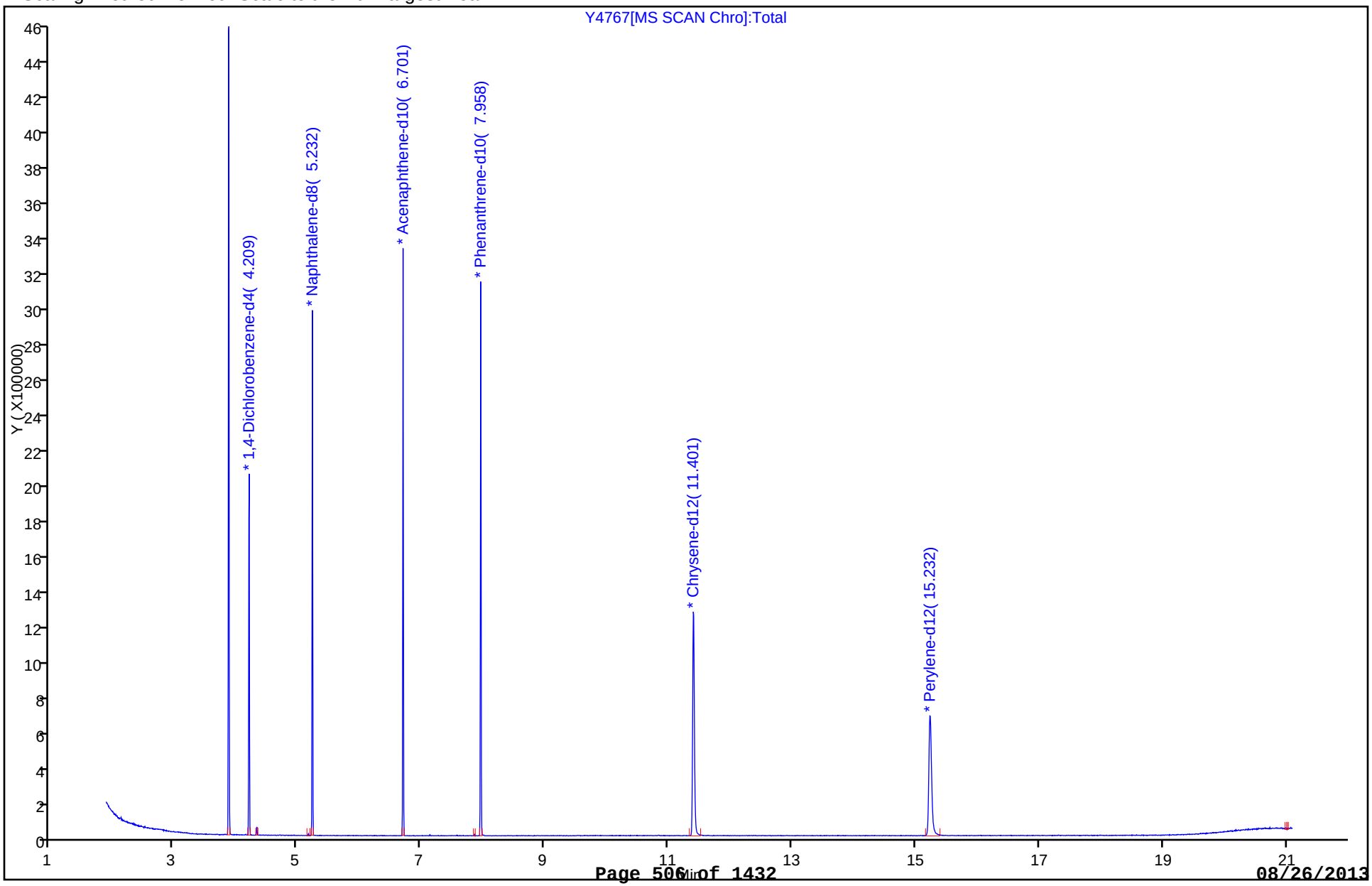
Report Date: 05-Jun-2013 08:49:05 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4767.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 20:32:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 18 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICV 280-179033/10 Calibration Date: 06/17/2013 10:59

Instrument ID: SMS_Y Calib Start Date: 06/17/2013 07:29

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/17/2013 10:33

Lab File ID: Y5016.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.6682 | 0.6311 | | 94.4 | 100 | -5.6 | 20.0 |
| N-Nitrosodimethylamine | Ave | 0.9777 | 0.9307 | | 95.2 | 100 | -4.8 | 20.0 |
| Pyridine | Ave | 1.663 | 1.692 | | 102 | 100 | 1.7 | 20.0 |
| Phenol | Ave | 1.860 | 1.812 | | 97.4 | 100 | -2.6 | 20.0 |
| Aniline | Ave | 2.312 | 2.019 | | 87.3 | 100 | -12.7 | 20.0 |
| Bis(2-chloroethyl)ether | Ave | 1.464 | 1.419 | | 96.9 | 100 | -3.1 | 20.0 |
| 2-Chlorophenol | Ave | 1.460 | 1.405 | | 96.2 | 100 | -3.8 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.587 | 1.545 | | 97.3 | 100 | -2.7 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.610 | 1.569 | | 97.4 | 100 | -2.6 | 20.0 |
| Benzyl alcohol | Ave | 0.9721 | 0.9713 | | 99.9 | 100 | -0.0 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.533 | 1.476 | | 96.2 | 100 | -3.8 | 20.0 |
| 2-Methylphenol | Ave | 1.375 | 1.333 | | 97.0 | 100 | -3.0 | 20.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 1.780 | 2.071 | | 0.00100 | 72.0 | 16.4 | 20.0 |
| 3 & 4 Methylphenol | Ave | 1.422 | 1.365 | | 96.0 | 100 | -4.0 | 20.0 |
| 4-Methylphenol | Ave | 1.422 | 1.365 | | 96.0 | 100 | -4.0 | 20.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.040 | 1.005 | 0.0500 | 96.6 | 100 | -3.4 | 20.0 |
| Acetophenone | Ave | 1.968 | 1.909 | | 97.0 | 100 | -3.0 | 20.0 |
| Hexachloroethane | Ave | 0.6435 | 0.6418 | | 99.7 | 100 | -0.3 | 20.0 |
| Nitrobenzene | Ave | 0.3967 | 0.3889 | | 98.0 | 100 | -2.0 | 20.0 |
| Isophorone | Ave | 0.6965 | 0.7055 | | 101 | 100 | 1.3 | 20.0 |
| 2-Nitrophenol | Ave | 0.1874 | 0.1861 | | 99.3 | 100 | -0.7 | 20.0 |
| 2,4-Dimethylphenol | Ave | 0.3557 | 0.2976 | | 83.7 | 100 | -16.3 | 20.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4399 | 0.4084 | | 92.8 | 100 | -7.2 | 20.0 |
| Benzoic acid | Lin2 | | 0.3005 | | 217 | 200 | 8.6 | 20.0 |
| 2,4-Dichlorophenol | Ave | 0.3100 | 0.3020 | | 97.4 | 100 | -2.6 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3301 | 0.3222 | | 97.6 | 100 | -2.4 | 20.0 |
| Naphthalene | Ave | 1.030 | 0.9920 | | 96.3 | 100 | -3.7 | 20.0 |
| 4-Chloroaniline | Ave | 0.4819 | 0.4393 | | 91.2 | 100 | -8.8 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2028 | 0.1969 | | 97.1 | 100 | -2.9 | 20.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3102 | 0.2974 | | 95.9 | 100 | -4.1 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6744 | 0.6400 | | 94.9 | 100 | -5.1 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6304 | 0.6065 | | 96.2 | 100 | -3.8 | 20.0 |
| Hexachlorocyclopentadiene | Ave | 0.3421 | 0.3970 | 0.0500 | 116 | 100 | 16.1 | 20.0 |
| 1,2,4,5-Tetrachlorobenzene | Ave | 0.3243 | 0.3133 | | 96.6 | 100 | -3.4 | 20.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3676 | 0.3873 | | 105 | 100 | 5.4 | 20.0 |
| 2,4,5-Trichlorophenol | Ave | 0.3994 | 0.3970 | | 99.4 | 100 | -0.6 | 20.0 |
| 1,1'-Biphenyl | Ave | 1.352 | 1.304 | | 96.4 | 100 | -3.6 | 20.0 |
| 2-Chloronaphthalene | Ave | 1.116 | 1.056 | | 94.6 | 100 | -5.4 | 20.0 |
| 2-Nitroaniline | Ave | 0.3348 | 0.3354 | | 100 | 100 | 0.2 | 20.0 |
| Dimethyl phthalate | Ave | 1.213 | 1.164 | | 95.9 | 100 | -4.1 | 20.0 |
| 2,6-Dinitrotoluene | Ave | 0.2825 | 0.2788 | | 98.7 | 100 | -1.3 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICV 280-179033/10 Calibration Date: 06/17/2013 10:59

Instrument ID: SMS_Y Calib Start Date: 06/17/2013 07:29

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/17/2013 10:33

Lab File ID: Y5016.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | Ave | 1.720 | 1.662 | | 96.6 | 100 | -3.4 | 20.0 |
| 3-Nitroaniline | Ave | 0.3571 | 0.3357 | | 94.0 | 100 | -6.0 | 20.0 |
| Acenaphthene | Ave | 1.059 | 1.019 | | 96.2 | 100 | -3.8 | 20.0 |
| 2,4-Dinitrophenol | Lin1 | | 0.1801 | 0.0500 | 201 | 200 | 0.5 | 20.0 |
| 4-Nitrophenol | Ave | 0.1848 | 0.1869 | 0.0500 | 202 | 200 | 1.1 | 20.0 |
| 2,4-Dinitrotoluene | Ave | 0.3686 | 0.3719 | | 101 | 100 | 0.9 | 20.0 |
| Dibenzofuran | Ave | 1.506 | 1.438 | | 95.5 | 100 | -4.5 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | Ave | 0.3244 | 0.3363 | | 104 | 100 | 3.7 | 20.0 |
| Diethyl phthalate | Ave | 1.201 | 1.149 | | 95.6 | 100 | -4.4 | 20.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6084 | 0.5911 | | 97.2 | 100 | -2.8 | 20.0 |
| Fluorene | Ave | 1.241 | 1.210 | | 97.5 | 100 | -2.5 | 20.0 |
| 4-Nitroaniline | Ave | 0.3385 | 0.3260 | | 96.3 | 100 | -3.7 | 20.0 |
| 4,6-Dinitro-2-methylphenol | Lin2 | | 0.1440 | | 209 | 200 | 4.6 | 20.0 |
| N-Nitrosodiphenylamine | Ave | 0.5566 | 0.5399 | | 97.0 | 100 | -3.0 | 20.0 |
| 1,2-Diphenylhydrazine | Ave | 1.322 | 1.291 | | 98.7 | 101 | -2.4 | 20.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2336 | 0.2336 | | 100 | 100 | 0.0 | 20.0 |
| Hexachlorobenzene | Ave | 0.2825 | 0.2833 | | 100 | 100 | 0.3 | 20.0 |
| Pentachlorophenol | Lin2 | | 0.1770 | | 214 | 200 | 6.9 | 20.0 |
| Phenanthrene | Ave | 1.037 | 1.004 | | 96.8 | 100 | -3.2 | 20.0 |
| Anthracene | Ave | 1.060 | 1.031 | | 97.3 | 100 | -2.7 | 20.0 |
| Carbazole | Ave | 1.011 | 0.9573 | | 94.7 | 100 | -5.3 | 20.0 |
| Di-n-butyl phthalate | Ave | 1.174 | 1.166 | | 99.3 | 100 | -0.7 | 20.0 |
| Fluoranthene | Ave | 1.140 | 1.120 | | 98.2 | 100 | -1.8 | 20.0 |
| Pyrene | Ave | 1.037 | 0.9911 | | 95.6 | 100 | -4.4 | 20.0 |
| Butyl benzyl phthalate | Ave | 0.4541 | 0.4509 | | 99.3 | 100 | -0.7 | 20.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 0.5806 | 0.5937 | | 102 | 100 | 2.3 | 20.0 |
| Benzo[a]anthracene | Ave | 0.9845 | 0.9551 | | 97.0 | 100 | -3.0 | 20.0 |
| Chrysene | Ave | 0.9358 | 0.9457 | | 101 | 100 | 1.1 | 20.0 |
| Di-n-octyl phthalate | Lin2 | | 1.013 | | 100 | 100 | 0.3 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.004 | 1.004 | | 100 | 100 | 0.0 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.112 | 1.100 | | 98.9 | 100 | -1.1 | 20.0 |
| Benzo[a]pyrene | Ave | 1.034 | 1.001 | | 96.8 | 100 | -3.2 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.8504 | 0.8868 | | 104 | 100 | 4.3 | 20.0 |
| Dibenz(a,h)anthracene | Ave | 0.9295 | 0.9807 | | 106 | 100 | 5.5 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 1.016 | 1.053 | | 104 | 100 | 3.7 | 20.0 |
| 2-Fluorophenol (Surr) | Ave | 1.457 | 1.412 | | 97.0 | 100 | -3.0 | 20.0 |
| Phenol-d5 (Surr) | Ave | 1.792 | 1.698 | | 94.8 | 100 | -5.2 | 20.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.3963 | 0.3886 | | 98.1 | 100 | -1.9 | 20.0 |
| 2-Fluorobiphenyl | Ave | 1.288 | 1.199 | | 93.0 | 100 | -7.0 | 20.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.2781 | 0.2706 | | 97.3 | 100 | -2.7 | 20.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8071 | 0.6671 | | 82.7 | 100 | -17.3 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5016.D
Lims ID: ICV HSLB1SSV Client ID:
Inject. Date: 17-Jun-2013 10:59:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV HSLB1SSV
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 10
Lims Batch ID: 179033 Lims Sample ID: 10
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:19 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 12:46:44

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.202 | 4.202 | 0.0 | 95 | 279754 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.231 | 5.231 | 0.0 | 99 | 1068832 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.699 | 6.694 | 0.005 | 87 | 636182 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.951 | 7.951 | 0.0 | 95 | 1064814 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.388 | 11.388 | 0.0 | 79 | 1267293 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.213 | 15.201 | 0.012 | 84 | 1216974 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.198 | 3.191 | 0.006 | 90 | 987803 | 97.0 | |
| $ 8 Phenol-d5 | 99 | 3.885 | 3.879 | 0.006 | 93 | 1187452 | 94.8 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.643 | 4.643 | 0.0 | 88 | 1038402 | 98.1 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.112 | 6.111 | 0.006 | 99 | 1906210 | 93.0 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.363 | 7.369 | 0.0 | 91 | 430416 | 97.3 | |
| $ 13 Terphenyl-d14 | 244 | 9.526 | 9.519 | 0.006 | 98 | 2113667 | 82.7 | |
| 27 1,4-Dioxane | 88 | 2.040 | 2.040 | 0.0 | 91 | 441371 | 94.4 | |
| 28 N-Nitrosodimethylamine | 74 | 2.252 | 2.246 | 0.006 | 89 | 650903 | 95.2 | |
| 29 Pyridine | 79 | 2.293 | 2.293 | 0.0 | 98 | 1183250 | 101.7 | |
| 40 Phenol | 94 | 3.897 | 3.890 | 0.006 | 97 | 1266947 | 97.4 | |
| 43 Aniline | 93 | 3.950 | 3.943 | 0.006 | 99 | 1411936 | 87.3 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.973 | 3.973 | 0.0 | 97 | 992375 | 96.9 | |
| 47 n-Decane | 43 | 4.020 | 4.014 | 0.006 | 89 | 857211 | 95.0 | |
| 48 2-Chlorophenol | 128 | 4.038 | 4.037 | 0.0 | 96 | 982613 | 96.2 | |
| 49 1,3-Dichlorobenzene | 146 | 4.161 | 4.155 | 0.006 | 97 | 1080360 | 97.3 | |
| 50 1,4-Dichlorobenzene | 146 | 4.214 | 4.214 | 0.0 | 93 | 1097020 | 97.4 | |
| 51 Benzyl alcohol | 108 | 4.296 | 4.296 | 0.0 | 92 | 679336 | 99.9 | |
| 52 1,2-Dichlorobenzene | 146 | 4.337 | 4.337 | -0.001 | 95 | 1032118 | 96.2 | |
| 54 2-Methylphenol | 108 | 4.367 | 4.366 | 0.0 | 94 | 932508 | 97.0 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.384 | 4.384 | -0.001 | 93 | 1042949 | 83.8 | |
| 56 Indene | 116 | 4.408 | 4.402 | 0.006 | 73 | 1652147 | 97.9 | |
| 58 3-Methylphenol | 108 | 4.490 | 4.490 | 0.0 | 96 | 954723 | 96.0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 59 4-Methylphenol | 108 | 4.490 | 4.490 | 0.0 | 96 | 954723 | 96.0 | |
| 60 3 & 4 Methylphenol | 108 | 4.490 | 4.490 | 0.0 | 96 | 954723 | 96.0 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.496 | 4.496 | 0.0 | 87 | 702909 | 96.6 | |
| 63 Acetophenone | 105 | 4.514 | 4.513 | 0.0 | 97 | 1335173 | 97.0 | |
| 66 Hexachloroethane | 117 | 4.608 | 4.607 | 0.0 | 92 | 448876 | 99.7 | |
| 67 Nitrobenzene | 77 | 4.661 | 4.660 | 0.0 | 87 | 1039198 | 98.0 | |
| 71 Isophorone | 82 | 4.837 | 4.836 | 0.0 | 98 | 1885178 | 101.3 | |
| 73 2,4-Dimethylphenol | 107 | 4.919 | 4.913 | 0.006 | 90 | 795142 | 83.7 | |
| 74 2-Nitrophenol | 139 | 4.913 | 4.913 | 0.0 | 94 | 497320 | 99.3 | |
| 77 Benzoic acid | 105 | 5.013 | 5.001 | 0.011 | 86 | 1605762 | 217.2 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.996 | 4.989 | 0.006 | 98 | 1091353 | 92.8 | |
| 82 2,4-Dichlorophenol | 162 | 5.101 | 5.101 | 0.0 | 95 | 807078 | 97.4 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.178 | 5.171 | 0.006 | 86 | 860896 | 97.6 | |
| 87 Naphthalene | 128 | 5.248 | 5.248 | 0.0 | 97 | 2650782 | 96.3 | |
| 88 4-Chloroaniline | 127 | 5.283 | 5.283 | -0.001 | 85 | 1173796 | 91.2 | |
| 91 Hexachlorobutadiene | 225 | 5.325 | 5.324 | 0.0 | 91 | 526117 | 97.1 | |
| 97 4-Chloro-3-methylphenol | 107 | 5.665 | 5.665 | 0.0 | 90 | 794687 | 95.9 | |
| 101 2-Methylnaphthalene | 142 | 5.812 | 5.812 | 0.0 | 88 | 1710076 | 94.9 | |
| 103 1-Methylnaphthalene | 142 | 5.900 | 5.900 | 0.0 | 81 | 1620597 | 96.2 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.936 | 5.940 | 0.0 | 87 | 631457 | 116.1 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.953 | 5.953 | 0.0 | 94 | 837029 | 96.6 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.047 | 6.052 | 0.0 | 86 | 616000 | 105.4 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.082 | 6.081 | 0.005 | 95 | 631441 | 99.4 | |
| 112 1,1'-Biphenyl | 154 | 6.200 | 6.199 | 0.006 | 95 | 2074397 | 96.4 | |
| 114 2-Chloronaphthalene | 162 | 6.229 | 6.234 | 0.0 | 96 | 1679471 | 94.6 | |
| 116 2-Nitroaniline | 65 | 6.318 | 6.323 | 0.0 | 84 | 533474 | 100.2 | |
| 119 Dimethyl phthalate | 163 | 6.441 | 6.440 | 0.006 | 98 | 1850793 | 95.9 | |
| 120 1,3-Dinitrobenzene | 168 | 6.494 | 6.499 | 0.0 | 87 | 324055 | 101.6 | |
| 121 2,6-Dinitrotoluene | 165 | 6.506 | 6.511 | 0.0 | 86 | 443485 | 98.7 | |
| 122 Acenaphthylene | 152 | 6.582 | 6.587 | 0.0 | 92 | 2643370 | 96.6 | |
| 123 3-Nitroaniline | 138 | 6.664 | 6.669 | 0.0 | 96 | 533878 | 94.0 | |
| 124 Acenaphthene | 153 | 6.729 | 6.728 | 0.006 | 93 | 1620466 | 96.2 | |
| 126 2,4-Dinitrophenol | 184 | 6.746 | 6.752 | -0.001 | 82 | 572938 | 201.1 | |
| 127 4-Nitrophenol | 109 | 6.788 | 6.793 | 0.0 | 87 | 594447 | 202.2 | |
| 130 2,4-Dinitrotoluene | 165 | 6.852 | 6.852 | 0.006 | 87 | 591556 | 100.9 | |
| 132 Dibenzofuran | 168 | 6.870 | 6.869 | 0.006 | 86 | 2286613 | 95.5 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.970 | 6.969 | 0.006 | 64 | 534873 | 103.7 | |
| 136 Hexadecane | 57 | 6.987 | 6.993 | 0.0 | 93 | 1071106 | 96.1 | |
| 139 Diethyl phthalate | 149 | 7.017 | 7.022 | 0.0 | 97 | 1827069 | 95.6 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.134 | 7.140 | 0.0 | 93 | 940151 | 97.2 | |
| 143 Fluorene | 166 | 7.158 | 7.163 | 0.0 | 84 | 1924870 | 97.5 | |
| 146 4-Nitroaniline | 138 | 7.187 | 7.187 | 0.006 | 80 | 518540 | 96.3 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.193 | 7.192 | 0.0 | 80 | 766750 | 209.1 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.240 | 7.239 | 0.0 | 59 | 1437107 | 97.0 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.269 | 7.275 | 0.0 | 98 | 2075210 | 98.7 | |
| 152 Azobenzene | 77 | 7.269 | 7.275 | 0.0 | 98 | 2075210 | 97.6 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.363 | 7.369 | 0.0 | 91 | 430191 | 96.9 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.551 | 7.551 | 0.0 | 59 | 621782 | 100.0 | |
| 165 Hexachlorobenzene | 284 | 7.622 | 7.621 | 0.0 | 89 | 754202 | 100.3 | |
| 169 n-Octadecane | 85 | 7.757 | 7.751 | 0.006 | 96 | 535874 | 98.8 | |
| 171 Pentachlorophenol | 266 | 7.786 | 7.786 | 0.0 | 87 | 942276 | 213.7 | |
| 176 Phenanthrene | 178 | 7.974 | 7.974 | 0.0 | 98 | 2672556 | 96.8 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 177 Anthracene | 178 | 8.016 | 8.015 | -0.001 | 98 | 2744453 | 97.3 | |
| 178 Carbazole | 167 | 8.151 | 8.150 | 0.0 | 82 | 2548440 | 94.7 | |
| 181 Di-n-butyl phthalate | 149 | 8.374 | 8.373 | 0.0 | 100 | 3104569 | 99.3 | |
| 188 Fluoranthene | 202 | 9.091 | 9.090 | 0.0 | 98 | 2981600 | 98.2 | |
| 191 Pyrene | 202 | 9.373 | 9.372 | 0.0 | 97 | 3139882 | 95.6 | |
| 198 Butyl benzyl phthalate | 149 | 10.231 | 10.230 | 0.0 | 96 | 1428667 | 99.3 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.323 | 11.323 | -0.001 | 96 | 1881079 | 102.3 | |
| 206 Benzo[a]anthracene | 228 | 11.365 | 11.358 | 0.006 | 98 | 3025974 | 97.0 | |
| 207 Chrysene | 228 | 11.447 | 11.446 | 0.0 | 93 | 2996218 | 101.1 | |
| 209 Di-n-octyl phthalate | 149 | 12.992 | 12.986 | 0.006 | 99 | 3208568 | 100.3 | |
| 211 Benzo[b]fluoranthene | 252 | 14.085 | 14.089 | 0.006 | 86 | 3055655 | 100.0 | |
| 212 Benzo[k]fluoranthene | 252 | 14.161 | 14.166 | 0.005 | 89 | 3345446 | 98.9 | |
| 215 Benzo[a]pyrene | 252 | 15.037 | 15.042 | 0.006 | 73 | 3046234 | 96.8 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.632 | 18.634 | 0.011 | 70 | 2983653 | 105.5 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.533 | 18.526 | 0.006 | 95 | 2809527 | 104.3 | |
| 223 Benzo[g,h,i]perylene | 276 | 19.285 | 19.293 | 0.006 | 91 | 3202712 | 103.7 | |

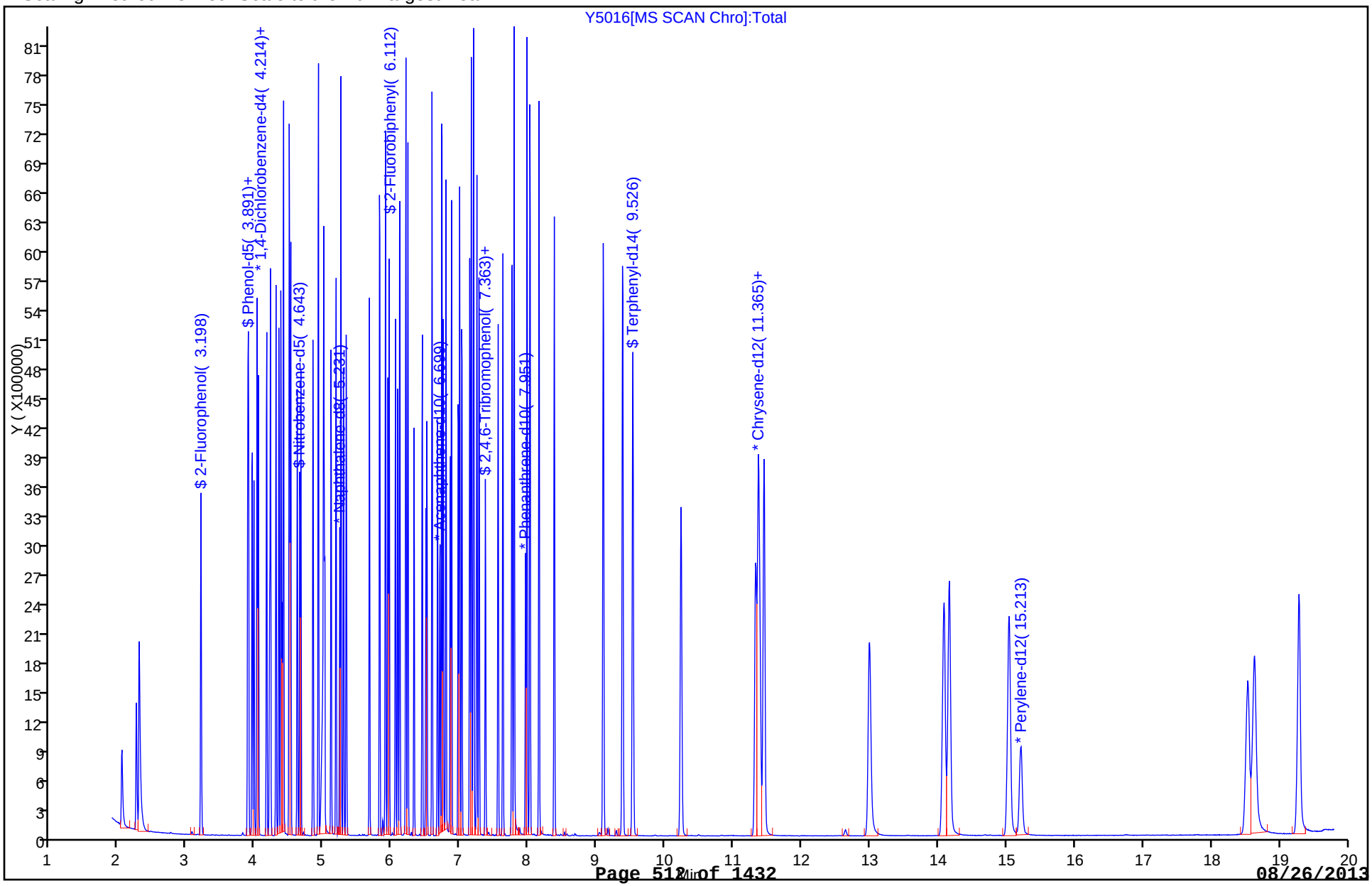
Report Date: 19-Jun-2013 10:52:21 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5016.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 10:59:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 10 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICV 280-179033/11 Calibration Date: 06/17/2013 11:26

Instrument ID: SMS_Y Calib Start Date: 06/17/2013 07:29

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/17/2013 10:33

Lab File ID: Y5017.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Caprolactam | Ave | 0.1537 | 0.1317 | | 85.7 | 100 | -14.3 | 20.0 |
| Atrazine | Ave | 0.1655 | 0.1730 | | 105 | 100 | 4.6 | 20.0 |
| Benzidine | Ave | 0.5789 | 0.6405 | | 111 | 100 | 10.6 | 20.0 |
| 3,3'-Dichlorobenzidine | Ave | 0.4212 | 0.3847 | | 91.3 | 100 | -8.7 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5017.D
Lims ID: ICV HSLB2SSV Client ID:
Inject. Date: 17-Jun-2013 11:26:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV HSLB2SSV
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 11
Lims Batch ID: 179033 Lims Sample ID: 11
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:19 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 12:46:58

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.202 | 4.202 | 0.0 | 95 | 304269 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.230 | 5.231 | -0.001 | 99 | 1163655 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.699 | 6.694 | 0.005 | 88 | 691267 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.950 | 7.951 | -0.001 | 95 | 1191546 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.382 | 11.388 | -0.006 | 79 | 1400220 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.207 | 15.201 | 0.006 | 86 | 1333113 | 40.0 | |
| 94 Caprolactam | 55 | 5.571 | 5.582 | -0.012 | 79 | 383185 | 85.7 | |
| 167 Atrazine | 200 | 7.662 | 7.662 | -0.001 | 91 | 515354 | 104.6 | |
| 189 Benzidine | 184 | 9.237 | 9.231 | 0.005 | 99 | 2241963 | 110.6 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.323 | 11.323 | -0.001 | 67 | 1346697 | 91.3 | |

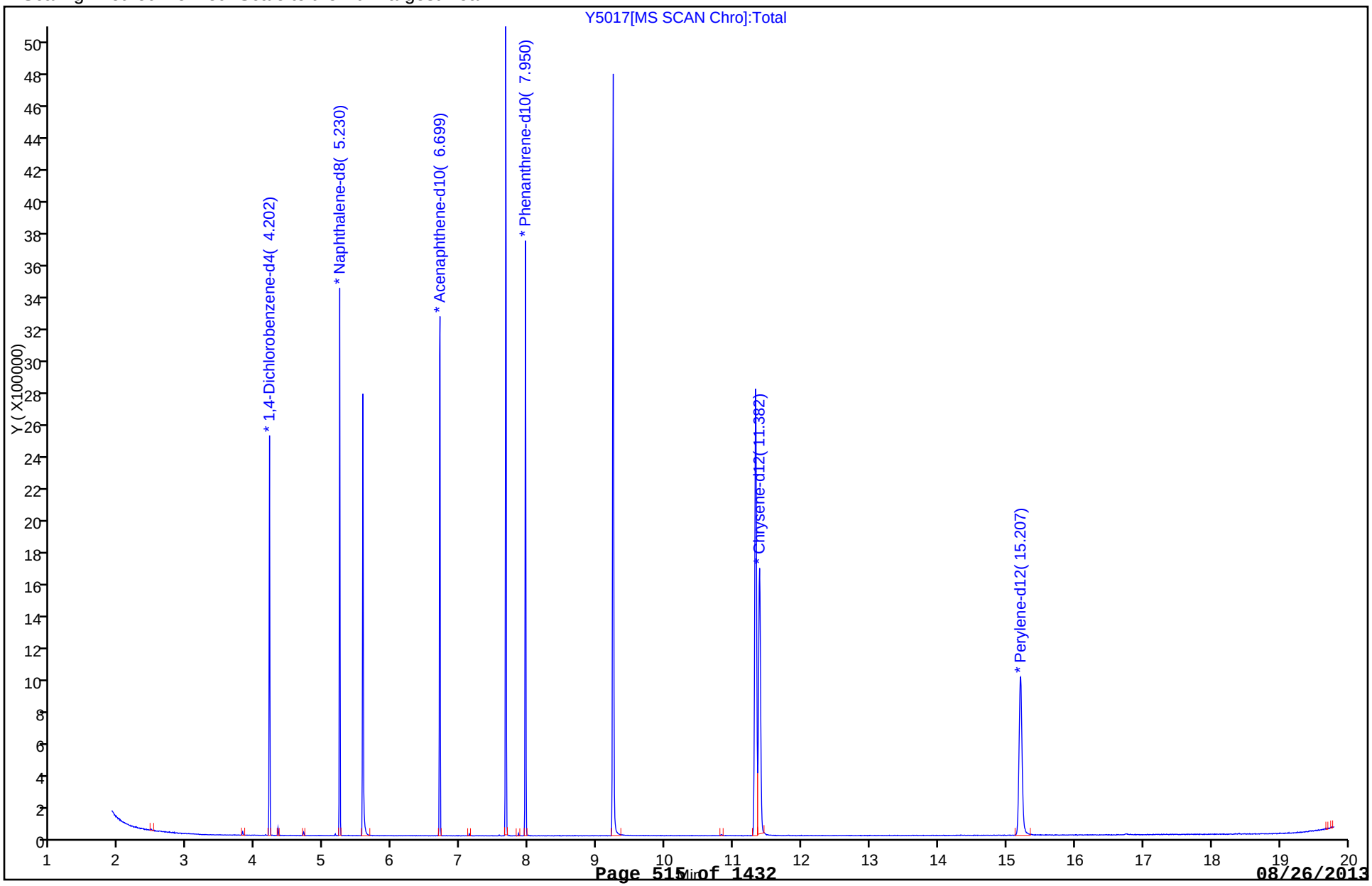
Report Date: 19-Jun-2013 10:52:22 Chrom Revision: 2.0 25-Apr-2013 12:05:30

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5017.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 11:26:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 11 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICV 280-185961/9 Calibration Date: 08/06/2013 11:23

Instrument ID: SMS_Y Calib Start Date: 08/06/2013 08:19

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 08/06/2013 10:57

Lab File ID: Y5641.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl methanesulfonate | Ave | 1.120 | 1.121 | | 100 | 100 | 0.1 | 50.0 |
| Pentachloroethane | Ave | 0.5297 | 0.5422 | | 102 | 100 | 2.4 | 20.0 |
| o,o',o''-Triethylphosphorothioate | Ave | 0.1730 | 0.1756 | | 101 | 100 | 1.5 | 20.0 |
| 2,6-Dichlorophenol | Ave | 0.2745 | 0.2974 | | 108 | 100 | 8.4 | 20.0 |
| Pentachlorobenzene | Ave | 0.5376 | 0.5544 | | 103 | 100 | 3.1 | 20.0 |
| Thionazin | Ave | 0.2940 | 0.3067 | | 104 | 100 | 4.3 | 20.0 |
| Sulfotepp | Ave | 0.1277 | 0.1298 | | 102 | 100 | 1.6 | 20.0 |
| Diallate Peak 1 | Ave | 0.3345 | 0.3451 | | 78.3 | 75.9 | 3.2 | 50.0 |
| Phorate | Ave | 0.1450 | 0.1482 | | 102 | 100 | 2.2 | 20.0 |
| Diallate Peak 2 | Ave | 0.3685 | 0.3545 | | 23.2 | 24.1 | -3.8 | 50.0 |
| Dimethoate | Ave | 0.2960 | 0.3138 | | 106 | 100 | 6.0 | 20.0 |
| Disulfoton | Ave | 0.4035 | 0.4081 | | 101 | 100 | 1.1 | 20.0 |
| Methyl parathion | Ave | 0.2351 | 0.2502 | | 106 | 100 | 6.4 | 20.0 |
| Ethyl Parathion | Ave | 0.1520 | 0.1598 | | 105 | 100 | 5.1 | 20.0 |
| Aramite Peak 1 | Ave | 0.0858 | 0.1034 | | 54.2 | 45.0 | 20.5 | 50.0 |
| 7,12-Dimethylbenz(a)anthracene | Ave | 0.5282 | 0.5067 | | 95.9 | 100 | -4.1 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5641.D
Lims ID: ICV AP9B1 Client ID:
Inject. Date: 06-Aug-2013 11:23:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV AP9B1
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 9
Lims Batch ID: 185961 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:09 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 14:16:49

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.152 | 4.146 | 0.006 | 95 | 353405 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.186 | 5.186 | 0.0 | 99 | 1372027 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.655 | 6.655 | 0.0 | 90 | 812065 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.907 | 7.907 | -0.001 | 97 | 1389857 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.279 | 11.279 | 0.0 | 80 | 1561243 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.039 | 15.039 | 0.0 | 95 | 1467878 | 40.0 | |
| 34 Methyl methanesulfonate | 80 | 3.000 | 3.006 | -0.006 | 86 | 803789 | 102.7 | |
| 37 Ethyl methanesulfonate | 79 | 3.529 | 3.529 | 0.0 | 97 | 990431 | 100.1 | |
| 46 Pentachloroethane | 117 | 3.929 | 3.929 | 0.0 | 87 | 479039 | 102.4 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.916 | 4.916 | 0.0 | 84 | 602136 | 101.5 | |
| 89 2,6-Dichlorophenol | 162 | 5.251 | 5.251 | 0.0 | 97 | 1020251 | 108.4 | |
| 90 Hexachloropropene | 213 | 5.268 | 5.269 | -0.001 | 86 | 818191 | 104.9 | |
| 98 Safrole, Total | 162 | 5.686 | 5.686 | 0.0 | 89 | 956907 | 100.3 | |
| 107 Isosafrole Peak 1 | 162 | 5.926 | 5.927 | -0.001 | 90 | 133591 | 13.6 | |
| 111 Isosafrole Peak 2 | 104 | 6.120 | 6.115 | 0.005 | 94 | 455856 | 104.7 | |
| 115 1-Chloronaphthalene | 162 | 6.209 | 6.209 | -0.001 | 97 | 2165638 | 101.6 | |
| 117 1,4-Naphthoquinone | 158 | 6.338 | 6.338 | 0.0 | 84 | 947895 | 132.6 | |
| 129 Pentachlorobenzene | 250 | 6.790 | 6.790 | 0.0 | 95 | 1125571 | 103.1 | |
| 141 Thionazin | 97 | 7.043 | 7.049 | -0.006 | 81 | 622661 | 104.3 | |
| 154 Sulfotepp | 97 | 7.278 | 7.284 | -0.006 | 87 | 450998 | 101.6 | |
| 158 Diallate Peak 1 | 86 | 7.407 | 7.413 | -0.006 | 92 | 910063 | 78.3 | |
| 160 Phorate | 121 | 7.425 | 7.425 | 0.0 | 94 | 515048 | 102.2 | |
| 163 Diallate Peak 2 | 86 | 7.489 | 7.489 | 0.0 | 94 | 296875 | 23.2 | |
| 166 Dimethoate | 87 | 7.589 | 7.595 | -0.006 | 97 | 1090424 | 106.0 | |
| 174 Disulfoton | 88 | 7.860 | 7.860 | 0.0 | 93 | 1418031 | 101.1 | |
| 175 Dinoseb | 211 | 7.865 | 7.871 | -0.006 | 93 | 605677 | 90.9 | |
| 180 Methyl parathion | 109 | 8.189 | 8.195 | -0.006 | 93 | 869374 | 106.4 | |
| 183 Ethyl Parathion | 109 | 8.512 | 8.518 | -0.006 | 87 | 555223 | 105.1 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 185 Methapyrilene | 97 | 8.617 | 8.623 | -0.006 | 91 | 1241252 | 119.4 | |
| 187 Isodrin | 193 | 8.852 | 8.853 | -0.001 | 93 | 450765 | 103.8 | |
| 192 Aramite Peak 1 | 185 | 9.370 | 9.375 | -0.005 | 93 | 181525 | 54.2 | |
| 193 Aramite Peak 2 | 185 | 9.469 | 9.475 | -0.006 | 94 | 217422 | 63.2 | |
| 195 Chlorobenzilate | 251 | 9.681 | 9.687 | -0.006 | 93 | 1269764 | 105.7 | |
| 208 6-Methylchrysene | 242 | 12.372 | 12.384 | -0.012 | 98 | 2923465 | 106.0 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.917 | 13.929 | -0.012 | 81 | 1859537 | 95.9 | |
| 217 3-Methylcholanthrene | 268 | 15.944 | 15.956 | -0.012 | 68 | 2081347 | 107.6 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 117.4 | |
| S 228 Diallate | 86 | | | | 0 | | 101.5 | |
| S 229 Isosafrole | 162 | | | | 0 | | 118.3 | |

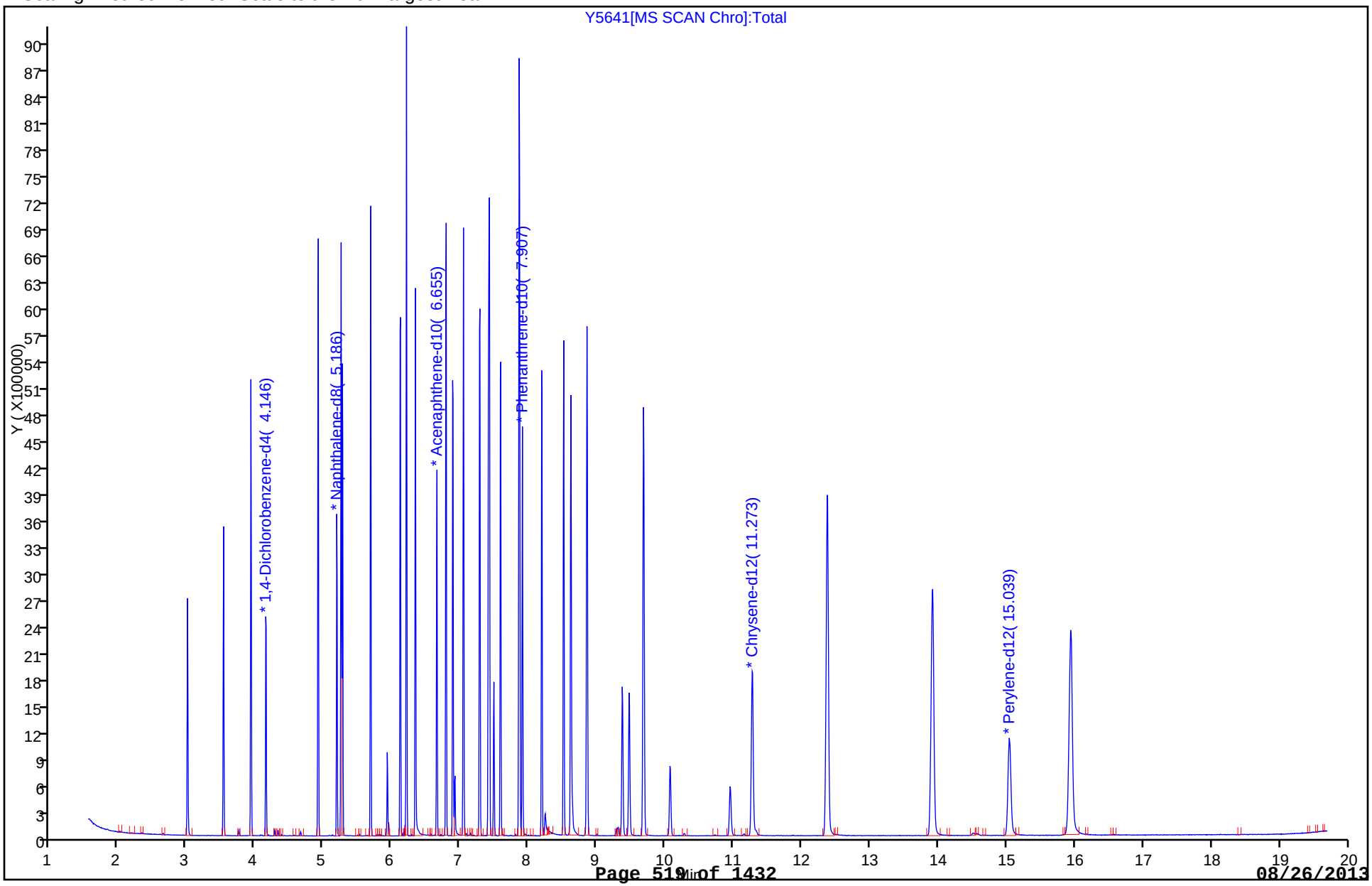
Report Date: 07-Aug-2013 06:36:10 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5641.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 11:23:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 9 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICV 280-185961/11 Calibration Date: 08/06/2013 12:16

Instrument ID: SMS_Y Calib Start Date: 08/06/2013 08:19

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 08/06/2013 10:57

Lab File ID: Y5643.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiethylamine | Ave | 0.6915 | 0.7104 | | 103 | 100 | 2.7 | 20.0 |
| N-Nitrosopyrrolidine | Ave | 0.7570 | 0.7767 | | 103 | 100 | 2.6 | 20.0 |
| N-Nitrosodi-n-butylamine | Ave | 0.2386 | 0.2466 | | 103 | 100 | 3.4 | 20.0 |
| p-Dimethylamino azobenzene | Ave | 0.2978 | 0.2974 | | 99.8 | 100 | -0.2 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5643.D
Lims ID: ICV AP9B3 Client ID:
Inject. Date: 06-Aug-2013 12:16:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV AP9B3
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 11
Lims Batch ID: 185961 Lims Sample ID: 11
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:09 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 14:17:41

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.146 | 4.146 | 0.0 | 97 | 307627 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.186 | 5.186 | 0.0 | 99 | 1197739 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.655 | 6.655 | 0.0 | 88 | 705912 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.907 | 7.907 | -0.001 | 97 | 1205941 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.279 | 11.279 | 0.0 | 84 | 1366841 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.039 | 15.039 | 0.0 | 87 | 1245671 | 40.0 | |
| 31 2-Picoline | 93 | 2.695 | 2.689 | 0.006 | 95 | 1292097 | 103.8 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.771 | 2.771 | 0.0 | 89 | 549232 | 101.6 | |
| 33 Acrylamide | 71 | 2.977 | 2.995 | -0.018 | 80 | 477428 | 101.8 | |
| 35 N-Nitrosodiethylamine | 102 | 3.306 | 3.306 | 0.0 | 93 | 546334 | 102.7 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.458 | 4.463 | -0.006 | 93 | 597346 | 102.6 | |
| 64 N-Nitrosomorpholine | 116 | 4.487 | 4.487 | 0.0 | 93 | 239088 | 98.5 | |
| 65 2-Toluidine | 106 | 4.499 | 4.499 | 0.0 | 93 | 1701280 | 101.3 | |
| 70 N-Nitrosopiperidine | 114 | 4.740 | 4.740 | 0.0 | 85 | 575702 | 102.5 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.022 | 5.028 | -0.006 | 97 | 2586356 | 107.2 | |
| 92 Quinoline | 129 | 5.486 | 5.486 | 0.0 | 97 | 2049749 | 101.1 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.492 | 5.492 | 0.0 | 92 | 738478 | 103.4 | |
| 95 p-Phenylene diamine | 108 | 5.539 | 5.545 | -0.006 | 97 | 1651280 | 111.9 | |
| 118 1,4-Dinitrobenzene | 168 | 6.385 | 6.391 | -0.006 | 88 | 311971 | 101.1 | |
| 133 1-Naphthylamine | 143 | 6.896 | 6.902 | -0.006 | 98 | 2077411 | 99.0 | |
| 137 2-Naphthylamine | 143 | 6.961 | 6.966 | -0.006 | 93 | 2152091 | 100.8 | |
| 145 N-Nitro-o-toluidine | 152 | 7.125 | 7.131 | -0.006 | 96 | 683652 | 102.4 | |
| 149 Diphenylamine | 169 | 7.196 | 7.196 | 0.0 | 92 | 1965709 | 102.6 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.425 | 7.425 | 0.0 | 55 | 224601 | 95.7 | |
| 161 Phenacetin | 108 | 7.442 | 7.454 | -0.012 | 91 | 1149013 | 101.3 | |
| 170 4-Aminobiphenyl | 169 | 7.736 | 7.736 | 0.0 | 84 | 2531036 | 101.7 | |
| 172 Pronamide | 173 | 7.748 | 7.754 | -0.006 | 85 | 972862 | 102.5 | |
| 173 Pentachloronitrobenzene | 237 | 7.748 | 7.748 | 0.0 | 85 | 267739 | 97.7 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 184 4-Nitroquinoline-1-oxide | 190 | 8.612 | 8.617 | -0.006 | 92 | 167943 | 61.4 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.646 | 9.652 | -0.006 | 94 | 1016148 | 99.8 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.180 | 10.186 | -0.006 | 96 | 2496280 | 119.8 | |
| 202 2-Acetylaminofluorene | 181 | 10.639 | 10.650 | -0.011 | 92 | 1288352 | 103.1 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.220 | 11.220 | 0.0 | 87 | 644705 | 108.6 | |
| 219 Dibenz[a,h]acridine | 279 | 17.654 | 17.671 | -0.018 | 62 | 2777681 | 112.2 | |

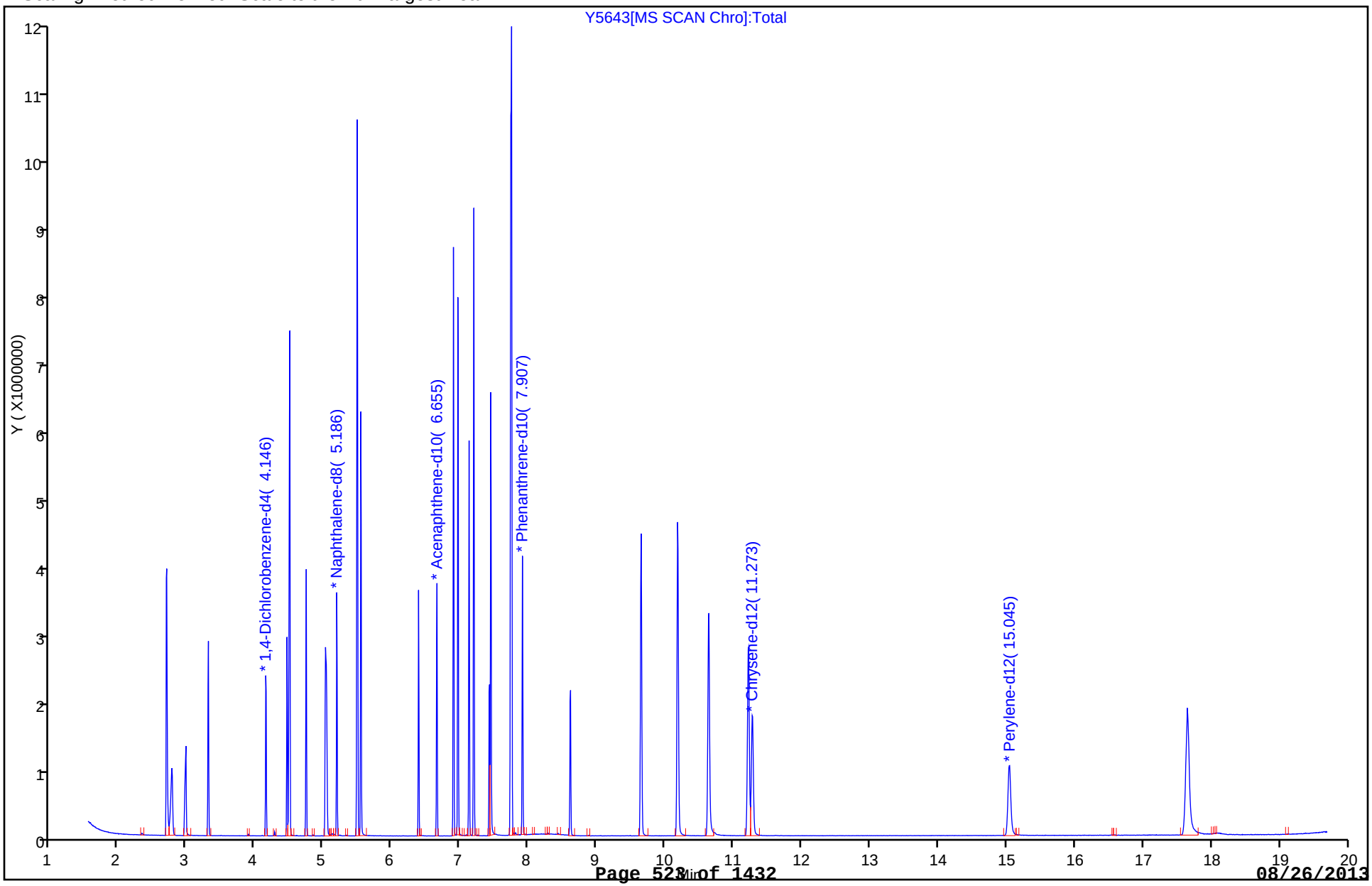
Report Date: 07-Aug-2013 06:36:12 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5643.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Aug-2013 12:16:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 11 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: CCV 280-187134/4 Calibration Date: 08/14/2013 10:50

Instrument ID: SMS_Y Calib Start Date: 06/17/2013 07:29

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/17/2013 10:33

Lab File ID: Y5754.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.6682 | 0.6326 | | 75.7 | 80.0 | -5.3 | 20.0 |
| N-Nitrosodimethylamine | Ave | 0.9777 | 0.9785 | | 80.1 | 80.0 | 0.0 | 20.0 |
| Pyridine | Ave | 1.663 | 1.660 | | 79.9 | 80.0 | -0.2 | 20.0 |
| Phenol | Ave | 1.860 | 1.945 | | 83.7 | 80.0 | 4.6 | 20.0 |
| Aniline | Ave | 2.312 | 2.391 | | 82.7 | 80.0 | 3.4 | 20.0 |
| Bis(2-chloroethyl)ether | Ave | 1.464 | 1.518 | | 82.9 | 80.0 | 3.6 | 20.0 |
| 2-Chlorophenol | Ave | 1.460 | 1.521 | | 83.4 | 80.0 | 4.2 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.587 | 1.670 | | 84.2 | 80.0 | 5.2 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.610 | 1.682 | | 83.6 | 80.0 | 4.5 | 20.0 |
| Benzyl alcohol | Ave | 0.9721 | 1.020 | | 83.9 | 80.0 | 4.9 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.533 | 1.603 | | 83.7 | 80.0 | 4.6 | 20.0 |
| 2-Methylphenol | Ave | 1.375 | 1.437 | | 83.6 | 80.0 | 4.5 | 20.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 1.780 | 1.804 | | 0.00100 | 80.0 | 1.4 | 20.0 |
| 3 & 4 Methylphenol | Ave | 1.422 | 1.492 | | 83.9 | 80.0 | 4.9 | 20.0 |
| 4-Methylphenol | Ave | 1.422 | 1.492 | | 83.9 | 80.0 | 4.9 | 20.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.040 | 1.101 | 0.0500 | 84.7 | 80.0 | 5.9 | 20.0 |
| Acetophenone | Ave | 1.968 | 2.045 | | 83.1 | 80.0 | 3.9 | 20.0 |
| Hexachloroethane | Ave | 0.6435 | 0.6753 | | 84.0 | 80.0 | 4.9 | 20.0 |
| Nitrobenzene | Ave | 0.3967 | 0.4166 | | 84.0 | 80.0 | 5.0 | 20.0 |
| Isophorone | Ave | 0.6965 | 0.7296 | | 83.8 | 80.0 | 4.8 | 20.0 |
| 2-Nitrophenol | Ave | 0.1874 | 0.2062 | | 88.0 | 80.0 | 10.0 | 20.0 |
| 2,4-Dimethylphenol | Ave | 0.3557 | 0.3763 | | 84.6 | 80.0 | 5.8 | 20.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4399 | 0.4587 | | 83.4 | 80.0 | 4.3 | 20.0 |
| Benzoic acid | Lin2 | | 0.2973 | | 173 | 160 | 8.0 | 20.0 |
| 2,4-Dichlorophenol | Ave | 0.3100 | 0.3201 | | 82.6 | 80.0 | 3.3 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3301 | 0.3416 | | 82.8 | 80.0 | 3.5 | 20.0 |
| Naphthalene | Ave | 1.030 | 1.070 | | 83.1 | 80.0 | 3.8 | 20.0 |
| 4-Chloroaniline | Ave | 0.4819 | 0.4944 | | 82.1 | 80.0 | 2.6 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2028 | 0.2046 | | 80.7 | 80.0 | 0.9 | 20.0 |
| Caprolactam | Ave | 0.1537 | 0.1588 | | 82.6 | 80.0 | 3.3 | 20.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3102 | 0.3280 | | 84.6 | 80.0 | 5.7 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6744 | 0.7074 | | 83.9 | 80.0 | 4.9 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6304 | 0.6618 | | 84.0 | 80.0 | 5.0 | 20.0 |
| Hexachlorocyclopentadiene | Ave | 0.3421 | 0.3476 | 0.0500 | 81.3 | 80.0 | 1.6 | 20.0 |
| 1,2,4,5-Tetrachlorobenzene | Ave | 0.3243 | 0.3340 | | 82.4 | 80.0 | 3.0 | 20.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3676 | 0.3969 | | 86.4 | 80.0 | 8.0 | 20.0 |
| 2,4,5-Trichlorophenol | Ave | 0.3994 | 0.4153 | | 83.2 | 80.0 | 4.0 | 20.0 |
| 1,1'-Biphenyl | Ave | 1.352 | 1.396 | | 82.6 | 80.0 | 3.2 | 20.0 |
| 2-Chloronaphthalene | Ave | 1.116 | 1.138 | | 81.6 | 80.0 | 1.9 | 20.0 |
| 2-Nitroaniline | Ave | 0.3348 | 0.3518 | | 84.0 | 80.0 | 5.1 | 20.0 |
| Dimethyl phthalate | Ave | 1.213 | 1.237 | | 81.6 | 80.0 | 2.0 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: CCV 280-187134/4 Calibration Date: 08/14/2013 10:50

Instrument ID: SMS_Y Calib Start Date: 06/17/2013 07:29

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/17/2013 10:33

Lab File ID: Y5754.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | Ave | 0.2825 | 0.2937 | | 83.2 | 80.0 | 4.0 | 20.0 |
| Acenaphthylene | Ave | 1.720 | 1.780 | | 82.8 | 80.0 | 3.5 | 20.0 |
| 3-Nitroaniline | Ave | 0.3571 | 0.3783 | | 84.8 | 80.0 | 5.9 | 20.0 |
| Acenaphthene | Ave | 1.059 | 1.097 | | 82.8 | 80.0 | 3.5 | 20.0 |
| 2,4-Dinitrophenol | Lin1 | | 0.1929 | 0.0500 | 174 | 160 | 8.6 | 20.0 |
| 4-Nitrophenol | Ave | 0.1848 | 0.1948 | 0.0500 | 169 | 160 | 5.4 | 20.0 |
| 2,4-Dinitrotoluene | Ave | 0.3686 | 0.3961 | | 86.0 | 80.0 | 7.5 | 20.0 |
| Dibenzofuran | Ave | 1.506 | 1.524 | | 80.9 | 80.0 | 1.2 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | Ave | 0.3244 | 0.3438 | | 84.8 | 80.0 | 6.0 | 20.0 |
| Diethyl phthalate | Ave | 1.201 | 1.233 | | 82.1 | 80.0 | 2.6 | 20.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6084 | 0.6111 | | 80.4 | 80.0 | 0.5 | 20.0 |
| Fluorene | Ave | 1.241 | 1.274 | | 82.1 | 80.0 | 2.6 | 20.0 |
| 4-Nitroaniline | Ave | 0.3385 | 0.3552 | | 84.0 | 80.0 | 4.9 | 20.0 |
| 4,6-Dinitro-2-methylphenol | Lin2 | | 0.1481 | | 173 | 160 | 8.0 | 20.0 |
| N-Nitrosodiphenylamine | Ave | 0.5566 | 0.5689 | | 81.8 | 80.0 | 2.2 | 20.0 |
| 1,2-Diphenylhydrazine | Ave | 1.322 | 1.355 | | 82.9 | 80.9 | 2.5 | 20.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2336 | 0.2330 | | 79.8 | 80.0 | -0.2 | 20.0 |
| Hexachlorobenzene | Ave | 0.2825 | 0.2789 | | 79.0 | 80.0 | -1.3 | 20.0 |
| Atrazine | Ave | 0.1655 | 0.1937 | | 93.7 | 80.0 | 17.1 | 20.0 |
| Pentachlorophenol | Lin2 | | 0.1743 | | 169 | 160 | 5.8 | 20.0 |
| Phenanthrene | Ave | 1.037 | 1.062 | | 81.9 | 80.0 | 2.4 | 20.0 |
| Anthracene | Ave | 1.060 | 1.090 | | 82.3 | 80.0 | 2.9 | 20.0 |
| Carbazole | Ave | 1.011 | 1.042 | | 82.4 | 80.0 | 3.0 | 20.0 |
| Di-n-butyl phthalate | Ave | 1.174 | 1.233 | | 84.0 | 80.0 | 5.0 | 20.0 |
| Fluoranthene | Ave | 1.140 | 1.169 | | 82.0 | 80.0 | 2.6 | 20.0 |
| Benzidine | Ave | 0.5789 | 0.6631 | | 91.6 | 80.0 | 14.5 | 20.0 |
| Pyrene | Ave | 1.037 | 1.092 | | 84.3 | 80.0 | 5.4 | 20.0 |
| Famphur | Ave | 0.3607 | 0.4069 | | 90.3 | 80.0 | 12.8 | 20.0 |
| Butyl benzyl phthalate | Ave | 0.4541 | 0.5075 | | 89.4 | 80.0 | 11.8 | 20.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 0.5806 | 0.6807 | | 93.8 | 80.0 | 17.3 | 20.0 |
| 3,3'-Dichlorobenzidine | Ave | 0.4212 | 0.4540 | | 86.2 | 80.0 | 7.8 | 20.0 |
| Benzo[a]anthracene | Ave | 0.9845 | 1.025 | | 83.3 | 80.0 | 4.1 | 20.0 |
| Chrysene | Ave | 0.9358 | 0.9460 | | 80.9 | 80.0 | 1.1 | 20.0 |
| Di-n-octyl phthalate | Lin2 | | 1.135 | | 90.2 | 80.0 | 12.7 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.004 | 1.055 | | 84.1 | 80.0 | 5.1 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.112 | 1.151 | | 82.8 | 80.0 | 3.5 | 20.0 |
| Benzo[a]pyrene | Ave | 1.034 | 1.067 | | 82.6 | 80.0 | 3.2 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 0.8504 | 0.9181 | | 86.4 | 80.0 | 8.0 | 20.0 |
| Dibenz(a,h)anthracene | Ave | 0.9295 | 1.007 | | 86.7 | 80.0 | 8.3 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 1.016 | 1.043 | | 82.2 | 80.0 | 2.7 | 20.0 |
| 2-Fluorophenol (Surr) | Ave | 1.457 | 1.488 | | 81.7 | 80.0 | 2.2 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: CCV 280-187134/4 Calibration Date: 08/14/2013 10:50

Instrument ID: SMS_Y Calib Start Date: 06/17/2013 07:29

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/17/2013 10:33

Lab File ID: Y5754.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Phenol-d5 (Surr) | Ave | 1.792 | 1.841 | | 82.2 | 80.0 | 2.8 | 20.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.3963 | 0.4155 | | 83.9 | 80.0 | 4.9 | 20.0 |
| 2-Fluorobiphenyl | Ave | 1.288 | 1.305 | | 81.0 | 80.0 | 1.3 | 20.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.2781 | 0.2863 | | 82.4 | 80.0 | 3.0 | 20.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8071 | 0.8257 | | 81.8 | 80.0 | 2.3 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5754.D
Lims ID: CCV HSLA Client ID:
Inject. Date: 14-Aug-2013 10:50:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV HSLA
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 2
Lims Batch ID: 187134 Lims Sample ID: 4
Sublist: chrom-SMSY_8270C*sub16
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:39 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm Date: 14-Aug-2013 11:32:04

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.154 | 4.149 | 0.005 | 95 | 318457 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.194 | 5.189 | 0.005 | 99 | 1226028 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.663 | 6.658 | 0.005 | 90 | 735626 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.914 | 7.909 | 0.005 | 97 | 1240467 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.293 | 11.288 | 0.005 | 83 | 1384571 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.065 | 15.060 | 0.005 | 98 | 1336593 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.120 | 3.127 | -0.003 | 90 | 947909 | 81.7 | |
| $ 8 Phenol-d5 | 99 | 3.837 | 3.839 | 0.003 | 92 | 1172711 | 82.2 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.600 | 4.609 | -0.004 | 89 | 1018879 | 83.9 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.075 | 6.072 | 0.003 | 99 | 1919665 | 81.0 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.327 | 7.324 | 0.003 | 91 | 421190 | 82.4 | |
| $ 13 Terphenyl-d14 | 244 | 9.459 | 9.457 | 0.002 | 98 | 2286552 | 81.8 | |
| 27 1,4-Dioxane | 88 | 1.857 | 1.874 | -0.014 | 92 | 402892 | 75.7 | |
| 28 N-Nitrosodimethylamine | 74 | 2.092 | 2.109 | -0.014 | 89 | 623207 | 80.1 | |
| 29 Pyridine | 79 | 2.133 | 2.151 | -0.015 | 98 | 1057371 | 79.9 | |
| 40 Phenol | 94 | 3.848 | 3.851 | 0.002 | 98 | 1238994 | 83.7 | |
| 43 Aniline | 93 | 3.895 | 3.898 | 0.002 | 99 | 1523175 | 82.7 | |
| 44 Alpha Methyl Styrene | 118 | 3.913 | 3.922 | -0.003 | 91 | 1001047 | 84.5 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.919 | 3.928 | -0.003 | 93 | 966590 | 82.9 | |
| 47 n-Decane | 43 | 3.972 | 3.975 | 0.003 | 89 | 841162 | 81.9 | |
| 48 2-Chlorophenol | 128 | 3.989 | 3.992 | 0.002 | 96 | 968887 | 83.4 | |
| 49 1,3-Dichlorobenzene | 146 | 4.107 | 4.110 | 0.003 | 97 | 1063578 | 84.2 | |
| 50 1,4-Dichlorobenzene | 146 | 4.166 | 4.169 | 0.003 | 93 | 1071076 | 83.6 | |
| 51 Benzyl alcohol | 108 | 4.254 | 4.257 | 0.003 | 94 | 649663 | 83.9 | |
| 52 1,2-Dichlorobenzene | 146 | 4.289 | 4.298 | -0.003 | 96 | 1021222 | 83.7 | |
| 54 2-Methylphenol | 108 | 4.330 | 4.334 | 0.003 | 94 | 915277 | 83.6 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.342 | 4.345 | 0.003 | 92 | 1148979 | 81.1 | |
| 56 Indene | 116 | 4.360 | 4.363 | 0.003 | 73 | 1606283 | 83.6 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 58 3-Methylphenol | 108 | 4.454 | 4.457 | 0.003 | 88 | 950161 | 83.9 | |
| 59 4-Methylphenol | 108 | 4.454 | 4.457 | 0.003 | 88 | 950161 | 83.9 | |
| 60 3 & 4 Methylphenol | 108 | 4.454 | 4.457 | 0.003 | 88 | 950161 | 83.9 | |
| 61 N-Nitrosodi-n-propylamine | 70 | 4.454 | 4.457 | 0.003 | 78 | 701309 | 84.7 | |
| 63 Acetophenone | 105 | 4.471 | 4.475 | 0.003 | 98 | 1302433 | 83.1 | |
| 66 Hexachloroethane | 117 | 4.565 | 4.569 | 0.003 | 91 | 430104 | 84.0 | |
| 67 Nitrobenzene | 77 | 4.618 | 4.620 | 0.003 | 87 | 1021633 | 84.0 | |
| 71 Isophorone | 82 | 4.800 | 4.803 | 0.003 | 97 | 1788917 | 83.8 | |
| 73 2,4-Dimethylphenol | 107 | 4.882 | 4.885 | 0.002 | 94 | 922685 | 84.6 | |
| 74 2-Nitrophenol | 139 | 4.877 | 4.879 | 0.003 | 67 | 505688 | 88.0 | |
| 77 Benzoic acid | 105 | 4.971 | 4.979 | -0.003 | 88 | 1458023 | 172.8 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.959 | 4.962 | 0.003 | 98 | 1124820 | 83.4 | |
| 79 3,5-Dimethylphenol | 107 | 4.994 | 4.997 | 0.003 | 91 | 966508 | 84.7 | |
| 82 2,4-Dichlorophenol | 162 | 5.070 | 5.073 | 0.002 | 93 | 784798 | 82.6 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.141 | 5.144 | 0.003 | 93 | 837551 | 82.8 | |
| 87 Naphthalene | 128 | 5.211 | 5.215 | 0.002 | 97 | 2623149 | 83.1 | |
| 88 4-Chloroaniline | 127 | 5.253 | 5.256 | 0.003 | 85 | 1212259 | 82.1 | |
| 91 Hexachlorobutadiene | 225 | 5.288 | 5.291 | 0.003 | 94 | 501751 | 80.7 | |
| 94 Caprolactam | 55 | 5.540 | 5.533 | 0.002 | 79 | 389275 | 82.6 | |
| 97 4-Chloro-3-methylphenol | 107 | 5.640 | 5.638 | 0.008 | 92 | 804272 | 84.6 | |
| 101 2-Methylnaphthalene | 142 | 5.781 | 5.779 | 0.008 | 89 | 1734460 | 83.9 | |
| 103 1-Methylnaphthalene | 142 | 5.864 | 5.867 | 0.003 | 83 | 1622734 | 84.0 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.899 | 5.896 | 0.003 | 87 | 511376 | 81.3 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.917 | 5.920 | 0.002 | 96 | 818962 | 82.4 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.016 | 6.008 | 0.008 | 88 | 583990 | 86.4 | |
| 109 2,3-Dichlorobenzenamine | 161 | 6.022 | 6.020 | 0.002 | 94 | 977052 | 82.6 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.052 | 6.043 | 0.009 | 95 | 610965 | 83.2 | |
| 112 1,1'-Biphenyl | 154 | 6.163 | 6.161 | 0.002 | 95 | 2053843 | 82.6 | |
| 114 2-Chloronaphthalene | 162 | 6.193 | 6.190 | 0.003 | 97 | 1674087 | 81.6 | |
| 116 2-Nitroaniline | 65 | 6.281 | 6.278 | 0.003 | 85 | 517567 | 84.0 | |
| 119 Dimethyl phthalate | 163 | 6.398 | 6.396 | 0.002 | 98 | 1819639 | 81.6 | |
| 120 1,3-Dinitrobenzene | 168 | 6.457 | 6.454 | 0.003 | 88 | 320575 | 86.9 | |
| 121 2,6-Dinitrotoluene | 165 | 6.469 | 6.466 | 0.003 | 92 | 432096 | 83.2 | |
| 122 Acenaphthylene | 152 | 6.545 | 6.542 | 0.003 | 92 | 2619466 | 82.8 | |
| 123 3-Nitroaniline | 138 | 6.627 | 6.625 | 0.002 | 97 | 556514 | 84.8 | |
| 124 Acenaphthene | 153 | 6.686 | 6.683 | 0.003 | 94 | 1613229 | 82.8 | |
| 126 2,4-Dinitrophenol | 184 | 6.710 | 6.707 | 0.003 | 82 | 567723 | 173.8 | |
| 127 4-Nitrophenol | 109 | 6.763 | 6.760 | 0.003 | 84 | 573192 | 168.7 | |
| 130 2,4-Dinitrotoluene | 165 | 6.815 | 6.807 | 0.008 | 93 | 582816 | 86.0 | |
| 132 Dibenzofuran | 168 | 6.833 | 6.824 | 0.009 | 85 | 2242088 | 80.9 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.933 | 6.924 | 0.009 | 67 | 505830 | 84.8 | |
| 136 Hexadecane | 57 | 6.951 | 6.948 | 0.003 | 93 | 1049334 | 81.5 | |
| 139 Diethyl phthalate | 149 | 6.980 | 6.977 | 0.003 | 97 | 1814124 | 82.1 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.097 | 7.095 | 0.002 | 92 | 899127 | 80.4 | |
| 143 Fluorene | 166 | 7.121 | 7.112 | 0.009 | 84 | 1873874 | 82.1 | |
| 146 4-Nitroaniline | 138 | 7.150 | 7.148 | 0.002 | 82 | 522654 | 84.0 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.156 | 7.159 | 0.003 | 85 | 735058 | 172.8 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.203 | 7.206 | 0.003 | 57 | 1411328 | 81.8 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.233 | 7.230 | 0.003 | 98 | 2015132 | 82.9 | |
| 152 Azobenzene | 77 | 7.233 | 7.230 | 0.003 | 98 | 2015132 | 82.0 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.327 | 7.324 | 0.003 | 91 | 420764 | 82.0 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.515 | 7.512 | 0.009 | 59 | 578084 | 79.8 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 165 Hexachlorobenzene | 284 | 7.585 | 7.582 | 0.008 | 89 | 691874 | 79.0 | |
| 167 Atrazine | 200 | 7.626 | 7.629 | 0.002 | 91 | 480579 | 93.7 | |
| 169 n-Octadecane | 85 | 7.714 | 7.717 | 0.002 | 96 | 517348 | 81.9 | |
| 171 Pentachlorophenol | 266 | 7.750 | 7.753 | 0.003 | 86 | 864584 | 169.2 | |
| 176 Phenanthrene | 178 | 7.938 | 7.936 | 0.009 | 97 | 2633808 | 81.9 | |
| 177 Anthracene | 178 | 7.979 | 7.982 | 0.003 | 98 | 2704437 | 82.3 | |
| 178 Carbazole | 167 | 8.114 | 8.124 | 0.003 | 82 | 2583998 | 82.4 | |
| 179 Alachlor | 188 | 8.179 | 8.182 | 0.003 | 98 | 366478 | 81.0 | |
| 181 Di-n-butyl phthalate | 149 | 8.331 | 8.335 | 0.002 | 100 | 3057965 | 84.0 | |
| 188 Fluoranthene | 202 | 9.036 | 9.040 | 0.002 | 98 | 2901132 | 82.0 | |
| 189 Benzidine | 184 | 9.177 | 9.177 | 0.002 | 99 | 1836118 | 91.6 | |
| 191 Pyrene | 202 | 9.313 | 9.316 | 0.003 | 97 | 3025257 | 84.3 | |
| 197 Famphur | 218 | 10.082 | 10.079 | 0.003 | 83 | 1126677 | 90.3 | |
| 198 Butyl benzyl phthalate | 149 | 10.153 | 10.150 | 0.003 | 97 | 1405271 | 89.4 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.222 | 11.213 | 0.009 | 96 | 1885044 | 93.8 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.234 | 11.225 | 0.009 | 70 | 1257296 | 86.2 | |
| 206 Benzo[a]anthracene | 228 | 11.269 | 11.260 | 0.009 | 98 | 2837911 | 83.3 | |
| 207 Chrysene | 228 | 11.351 | 11.343 | 0.008 | 94 | 2619601 | 80.9 | |
| 209 Di-n-octyl phthalate | 149 | 12.861 | 12.853 | 0.008 | 99 | 3143647 | 90.2 | |
| 211 Benzo[b]fluoranthene | 252 | 13.942 | 13.946 | 0.008 | 93 | 2820054 | 84.1 | |
| 212 Benzo[k]fluoranthene | 252 | 14.025 | 13.999 | 0.015 | 99 | 3077319 | 82.8 | |
| 214 Benzo[e]pyrene | 252 | 14.741 | 14.739 | 0.008 | 97 | 2464830 | 81.6 | |
| 215 Benzo[a]pyrene | 252 | 14.894 | 14.881 | 0.014 | 75 | 2852783 | 82.6 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.455 | 18.435 | 0.021 | 84 | 2691826 | 86.7 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.361 | 18.354 | 0.015 | 98 | 2542425 | 86.4 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.142 | 19.141 | 0.008 | 92 | 2787891 | 82.2 | |
| S 225 Methyl Phenols,Total | 108 | | | | 0 | | 167.5 | |
| S 226 Total Cresols | 108 | | | | 0 | | 167.5 | |

QC Flag Legend

Review Flags
M - Manually Integrated

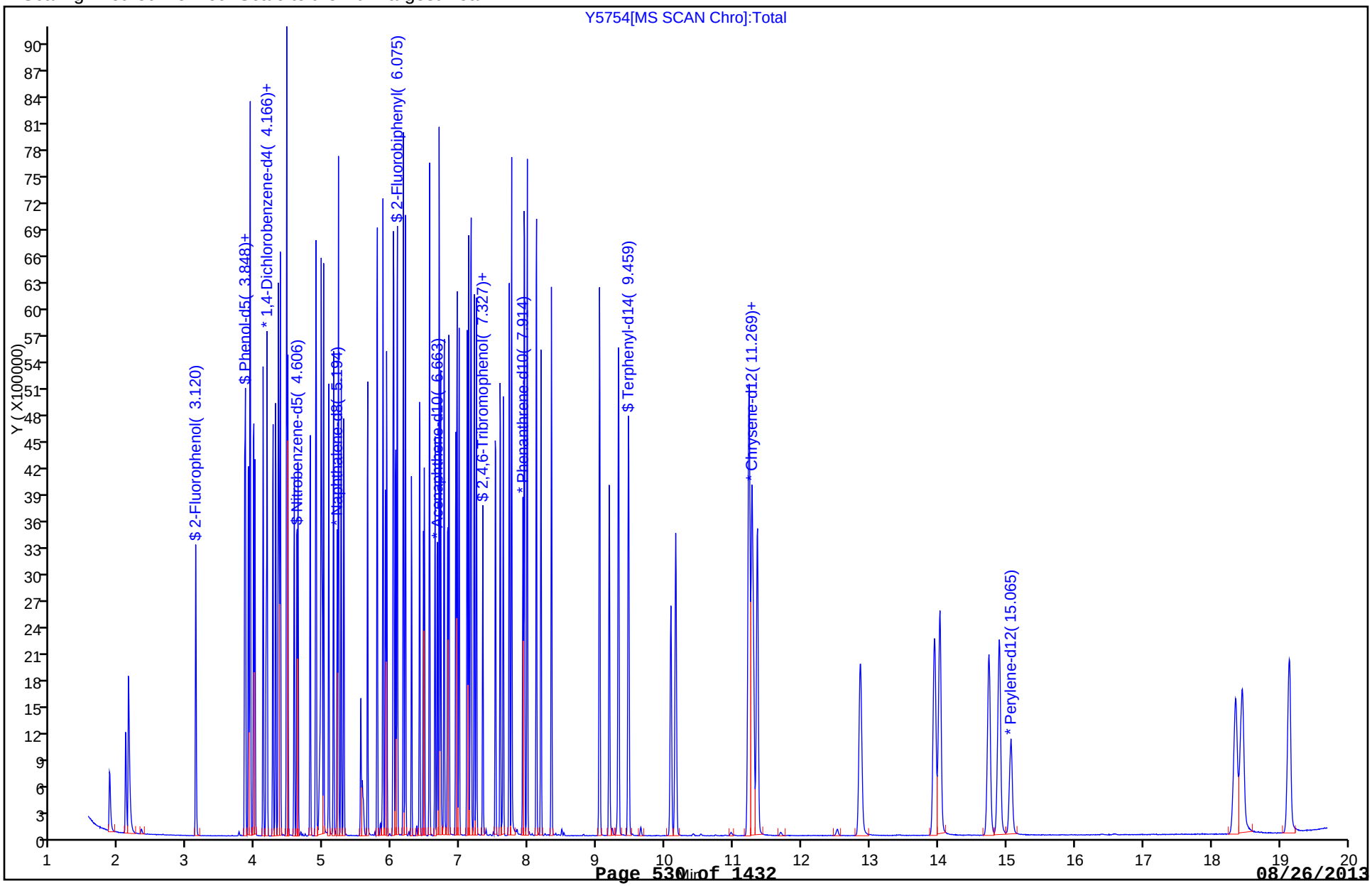
Report Date: 15-Aug-2013 10:01:39 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5754.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 10:50:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 4 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

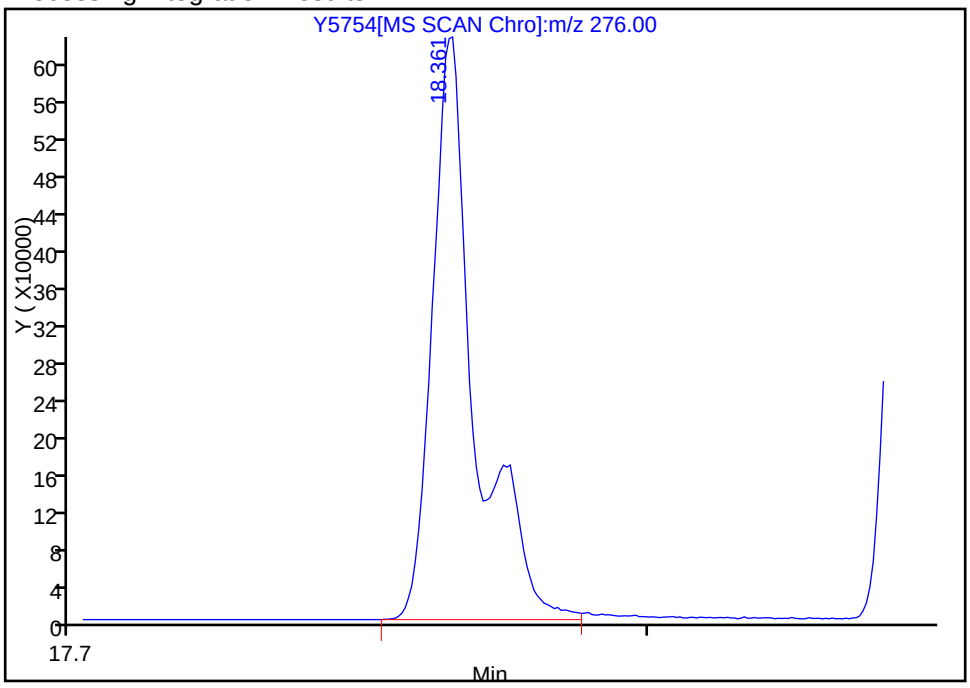
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5754.D | | |
| Injection Date: | 14-Aug-2013 10:50:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 4 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.35

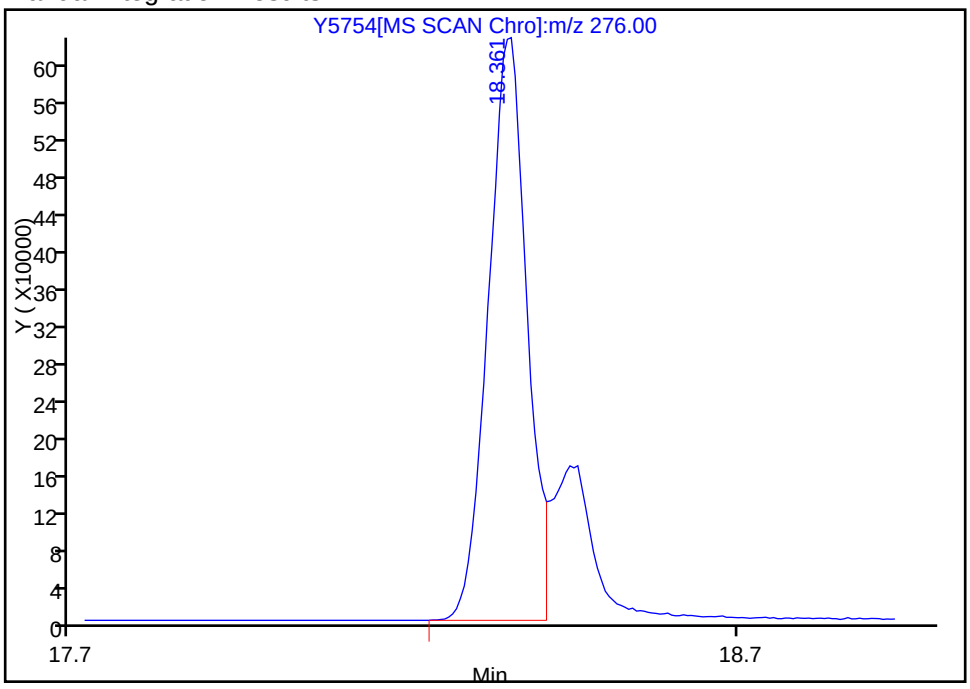
Processing Integration Results

RT: 18.36
Response: 3232190
Amount: 109.8044




Manual Integration Results

RT: 18.36
Response: 2542425
Amount: 86.371606




Reviewer: hoffmanm, 14-Aug-2013 11:32:04
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: CCV 280-187134/5 Calibration Date: 08/14/2013 11:19

Instrument ID: SMS_Y Calib Start Date: 08/06/2013 08:19

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 08/06/2013 10:57

Lab File ID: Y5755.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiethylamine | Ave | 0.6915 | 0.6831 | | 79.0 | 80.0 | -1.2 | 20.0 |
| Ethyl methanesulfonate | Ave | 1.120 | 1.095 | | 78.3 | 80.0 | -2.2 | 50.0 |
| Pentachloroethane | Ave | 0.5297 | 0.5250 | | 79.3 | 80.0 | -0.9 | 20.0 |
| N-Nitrosopyrrolidine | Ave | 0.7570 | 0.7606 | | 80.4 | 80.0 | 0.5 | 20.0 |
| o,o',o''-Triethylphosphorothioate | Ave | 0.1730 | 0.1797 | | 83.1 | 80.0 | 3.9 | 20.0 |
| 2,6-Dichlorophenol | Ave | 0.2745 | 0.2992 | | 87.2 | 80.0 | 9.0 | 20.0 |
| N-Nitrosodi-n-butylamine | Ave | 0.2386 | 0.2430 | | 81.5 | 80.0 | 1.8 | 20.0 |
| Pentachlorobenzene | Ave | 0.5376 | 0.5476 | | 81.5 | 80.0 | 1.9 | 20.0 |
| Thionazin | Ave | 0.2940 | 0.2983 | | 81.2 | 80.0 | 1.5 | 20.0 |
| Sulfotepp | Ave | 0.1277 | 0.1320 | | 82.7 | 80.0 | 3.4 | 20.0 |
| Diallate Peak 1 | Ave | 0.3345 | 0.3429 | | 72.3 | 70.6 | 2.5 | 50.0 |
| Phorate | Ave | 0.1450 | 0.1518 | | 83.8 | 80.0 | 4.7 | 20.0 |
| Dimethoate | Ave | 0.2960 | 0.3150 | | 85.1 | 80.0 | 6.4 | 20.0 |
| Pentachloronitrobenzene | Ave | 0.0909 | 0.0924 | | 81.3 | 80.0 | 1.7 | 50.0 |
| Disulfoton | Ave | 0.4035 | 0.4166 | | 82.6 | 80.0 | 3.2 | 20.0 |
| Methyl parathion | Ave | 0.2351 | 0.2549 | | 86.7 | 80.0 | 8.4 | 20.0 |
| Ethyl Parathion | Ave | 0.1520 | 0.1603 | | 84.4 | 80.0 | 5.5 | 20.0 |
| p-Dimethylamino azobenzene | Ave | 0.2978 | 0.3121 | | 83.8 | 80.0 | 4.8 | 50.0 |
| 7,12-Dimethylbenz(a)anthracene | Ave | 0.5282 | 0.5482 | | 83.0 | 80.0 | 3.8 | 50.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5755.D
Lims ID: CCV AP9A Client ID:
Inject. Date: 14-Aug-2013 11:19:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV AP9A
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 3
Lims Batch ID: 187134 Lims Sample ID: 5
Sublist: chrom-SMSY_8270C*sub15
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:40 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm Date: 14-Aug-2013 12:11:44

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.154 | 4.149 | 0.005 | 96 | 307343 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.194 | 5.189 | 0.005 | 99 | 1183338 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.657 | 6.658 | -0.001 | 88 | 706518 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.914 | 7.909 | 0.005 | 97 | 1194283 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.293 | 11.288 | 0.005 | 84 | 1311900 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.065 | 15.060 | 0.005 | 98 | 1257975 | 40.0 | |
| 31 2-Picoline | 93 | 2.691 | 2.690 | 0.005 | 95 | 981037 | 78.9 | |
| 32 N-Nitrosomethylethylamine | 88 | 2.767 | 2.772 | -0.001 | 90 | 422074 | 78.2 | |
| 33 Acrylamide | 71 | 2.973 | 2.978 | -0.001 | 78 | 389826 | 83.2 | |
| 34 Methyl methanesulfonate | 80 | 2.996 | 3.002 | -0.001 | 86 | 552457 | 81.2 | |
| 35 N-Nitrosodiethylamine | 102 | 3.302 | 3.308 | -0.001 | 97 | 419903 | 79.0 | |
| 37 Ethyl methanesulfonate | 79 | 3.525 | 3.531 | -0.001 | 98 | 673291 | 78.3 | |
| 46 Pentachloroethane | 117 | 3.931 | 3.931 | 0.005 | 88 | 322727 | 79.3 | |
| 62 N-Nitrosopyrrolidine | 100 | 4.459 | 4.467 | -0.001 | 94 | 467509 | 80.4 | |
| 64 N-Nitrosomorpholine | 116 | 4.489 | 4.490 | 0.005 | 93 | 193069 | 79.6 | |
| 65 2-Toluidine | 106 | 4.500 | 4.502 | 0.004 | 92 | 1351142 | 80.5 | |
| 70 N-Nitrosopiperidine | 114 | 4.741 | 4.742 | 0.005 | 85 | 451127 | 81.3 | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | 4.918 | 4.918 | 0.005 | 83 | 425366 | 83.1 | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | 5.035 | 5.042 | -0.001 | 97 | 1887660 | 79.2 | |
| 89 2,6-Dichlorophenol | 162 | 5.258 | 5.259 | 0.004 | 97 | 708165 | 87.2 | |
| 90 Hexachloropropene | 213 | 5.276 | 5.277 | 0.005 | 82 | 569827 | 84.7 | |
| 92 Quinoline | 129 | 5.488 | 5.496 | 0.0 | 97 | 1666439 | 82.3 | |
| 93 N-Nitrosodi-n-butylamine | 84 | 5.493 | 5.495 | 0.004 | 91 | 575027 | 81.5 | |
| 95 p-Phenylene diamine | 108 | 5.546 | 5.548 | 0.005 | 98 | 1175030 | 80.6 | |
| 98 Safrole, Total | 162 | 5.687 | 5.689 | 0.005 | 89 | 678119 | 82.4 | |
| 107 Isosafrole Peak 1 | 162 | 5.934 | 5.929 | 0.005 | 91 | 109326 | 12.8 | |
| 111 Isosafrole Peak 2 | 104 | 6.122 | 6.117 | 0.005 | 93 | 149894 | 39.6 | |
| 115 1-Chloronaphthalene | 162 | 6.216 | 6.211 | 0.005 | 98 | 1514773 | 81.7 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 117 1,4-Naphthoquinone | 158 | 6.345 | 6.340 | 0.005 | 90 | 468210 | 75.3 | |
| 118 1,4-Dinitrobenzene | 168 | 6.392 | 6.387 | 0.005 | 89 | 261028 | 84.5 | |
| 129 Pentachlorobenzene | 250 | 6.792 | 6.793 | -0.001 | 94 | 773829 | 81.5 | |
| 133 1-Naphthylamine | 143 | 6.904 | 6.899 | 0.005 | 99 | 1703832 | 81.1 | |
| 137 2-Naphthylamine | 143 | 6.968 | 6.963 | 0.005 | 94 | 1740090 | 81.4 | |
| 141 Thionazin | 97 | 7.050 | 7.046 | 0.004 | 81 | 421508 | 81.2 | |
| 145 N-Nitro-o-toluidine | 152 | 7.133 | 7.128 | 0.005 | 96 | 548884 | 82.1 | |
| 149 Diphenylamine | 169 | 7.203 | 7.198 | 0.005 | 95 | 1539014 | 80.2 | |
| 154 Sulfotepp | 97 | 7.285 | 7.286 | 0.004 | 88 | 315359 | 82.7 | |
| 158 Diallate Peak 1 | 86 | 7.415 | 7.415 | 0.005 | 93 | 722336 | 72.3 | |
| 159 1,3,5-Trinitrobenzene | 213 | 7.432 | 7.433 | 0.005 | 70 | 184031 | 80.1 | |
| 160 Phorate | 121 | 7.426 | 7.433 | -0.001 | 92 | 362616 | 83.8 | |
| 161 Phenacetin | 108 | 7.450 | 7.451 | 0.005 | 91 | 923725 | 82.3 | |
| 163 Diallate Peak 2 | 86 | 7.491 | 7.498 | -0.001 | 93 | 103059 | 9.37 | |
| 166 Dimethoate | 87 | 7.591 | 7.598 | -0.001 | 97 | 752273 | 85.1 | |
| 170 4-Aminobiphenyl | 169 | 7.738 | 7.745 | -0.001 | 85 | 2040812 | 82.8 | |
| 172 Pronamide | 173 | 7.755 | 7.756 | 0.004 | 85 | 786334 | 83.7 | |
| 173 Pentachloronitrobenzene | 237 | 7.750 | 7.756 | -0.001 | 81 | 220659 | 81.3 | |
| 174 Disulfoton | 88 | 7.861 | 7.868 | -0.001 | 93 | 995083 | 82.6 | |
| 175 Dinoseb | 211 | 7.873 | 7.874 | 0.005 | 97 | 467327 | 82.1 | |
| 180 Methyl parathion | 109 | 8.196 | 8.197 | 0.005 | 93 | 608719 | 86.7 | |
| 183 Ethyl Parathion | 109 | 8.519 | 8.521 | 0.005 | 87 | 382911 | 84.4 | |
| 184 4-Nitroquinoline-1-oxide | 190 | 8.619 | 8.621 | 0.005 | 92 | 211758 | 76.9 | |
| 185 Methapyrilene | 97 | 8.625 | 8.627 | 0.005 | 90 | 894681 | 93.0 | |
| 187 Isodrin | 193 | 8.860 | 8.862 | 0.005 | 93 | 305437 | 81.9 | |
| 192 Aramite Peak 1 | 185 | 9.383 | 9.378 | 0.005 | 92 | 102960 | 36.6 | |
| 193 Aramite Peak 2 | 185 | 9.477 | 9.478 | -0.001 | 94 | 120449 | 41.7 | |
| 194 p-Dimethylamino azobenzene | 120 | 9.653 | 9.648 | 0.005 | 94 | 818771 | 83.8 | |
| 195 Chlorobenzilate | 251 | 9.694 | 9.689 | 0.004 | 95 | 831776 | 82.4 | |
| 199 3,3'-Dimethylbenzidine | 212 | 10.194 | 10.189 | 0.005 | 96 | 1746911 | 87.4 | |
| 202 2-Acetylaminofluorene | 181 | 10.646 | 10.641 | 0.005 | 92 | 1094815 | 91.3 | |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | 11.228 | 11.223 | 0.005 | 88 | 497403 | 87.3 | |
| 208 6-Methylchrysene | 242 | 12.385 | 12.386 | -0.001 | 98 | 1966975 | 84.9 | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | 13.931 | 13.931 | 0.005 | 82 | 1379132 | 83.0 | |
| 217 3-Methylcholanthrene | 268 | 15.958 | 15.953 | 0.011 | 69 | 1482438 | 89.5 | |
| 219 Dibenz[a,h]acridine | 279 | 17.673 | 17.669 | 0.011 | 77 | 2181381 | 87.3 | |
| 220 Dibenz[a,j]acridine | 279 | 17.832 | 17.834 | 0.005 | 100 | 2145976 | 81.8 | |
| S 227 Aramite, Total | 185 | | | | 0 | | 78.2 | |
| S 228 Diallate | 86 | | | | 0 | | 81.7 | |
| S 229 Isosafrole | 162 | | | | 0 | | 52.4 | |

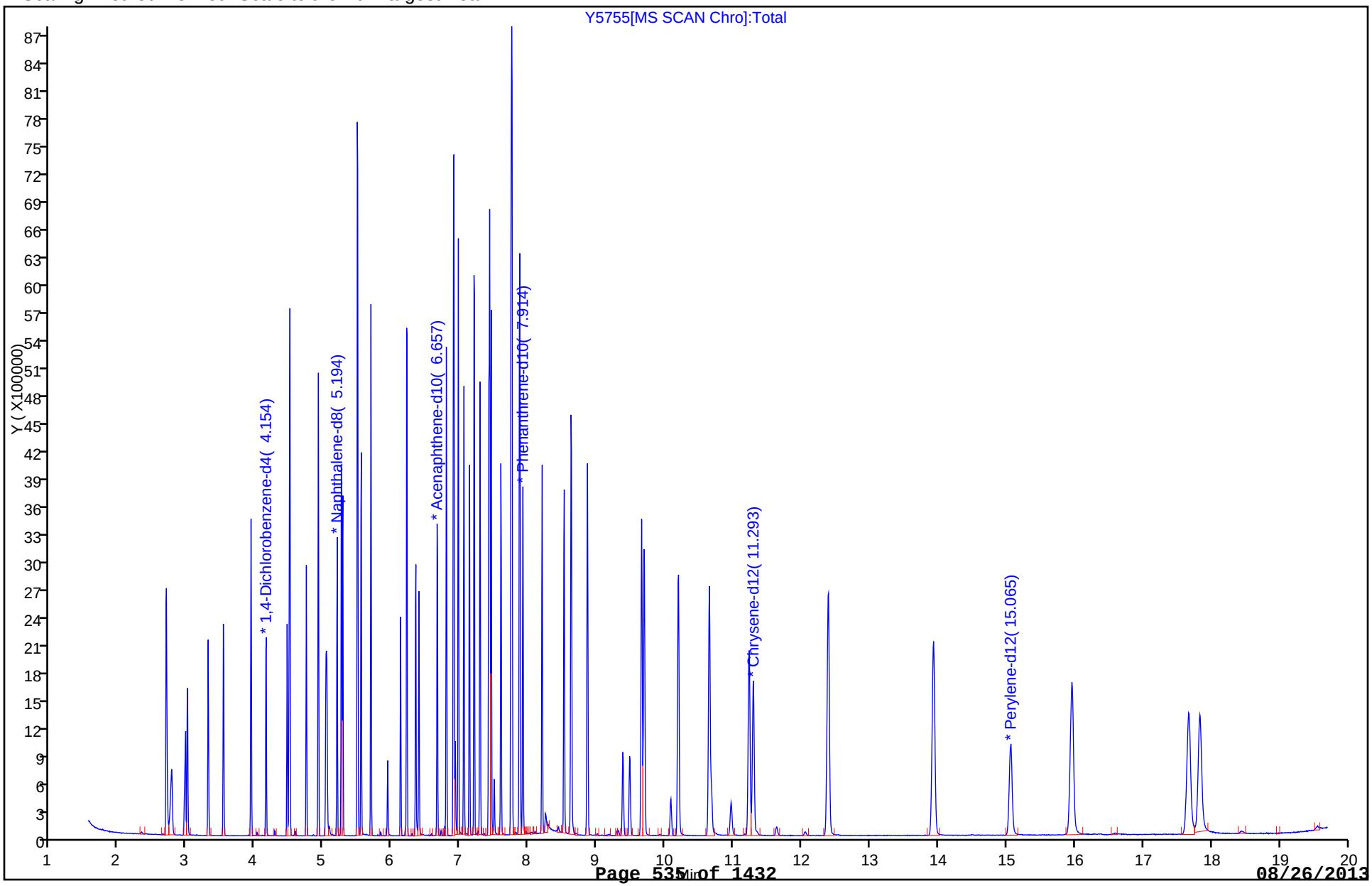
Report Date: 15-Aug-2013 10:01:41 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5755.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 11:19:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 5 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: CCV 280-187134/6 Calibration Date: 08/14/2013 11:45

Instrument ID: SMS_Y Calib Start Date: 06/03/2013 17:14

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 06/03/2013 20:03

Lab File ID: Y5756.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Benzaldehyde | Ave | 1.206 | 1.252 | | 83.1 | 80.0 | 3.8 | 20.0 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5756.D
Lims ID: CCV BZHDA Client ID:
Inject. Date: 14-Aug-2013 11:45:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV BZHD
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 4
Lims Batch ID: 187134 Lims Sample ID: 6
Sublist: chrom-SMSY_8270C*sub1
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm Date: 14-Aug-2013 12:12:15

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.151 | 4.149 | 0.002 | 95 | 302304 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.191 | 5.189 | 0.002 | 99 | 1163515 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.660 | 6.658 | 0.002 | 87 | 698772 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.912 | 7.909 | 0.003 | 97 | 1199958 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.284 | 11.288 | -0.004 | 85 | 1318351 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.062 | 15.060 | 0.002 | 98 | 1298963 | 40.0 | |
| 39 Benzaldehyde | 106 | 3.811 | 3.816 | 0.0 | 92 | 757021 | 83.1 | |

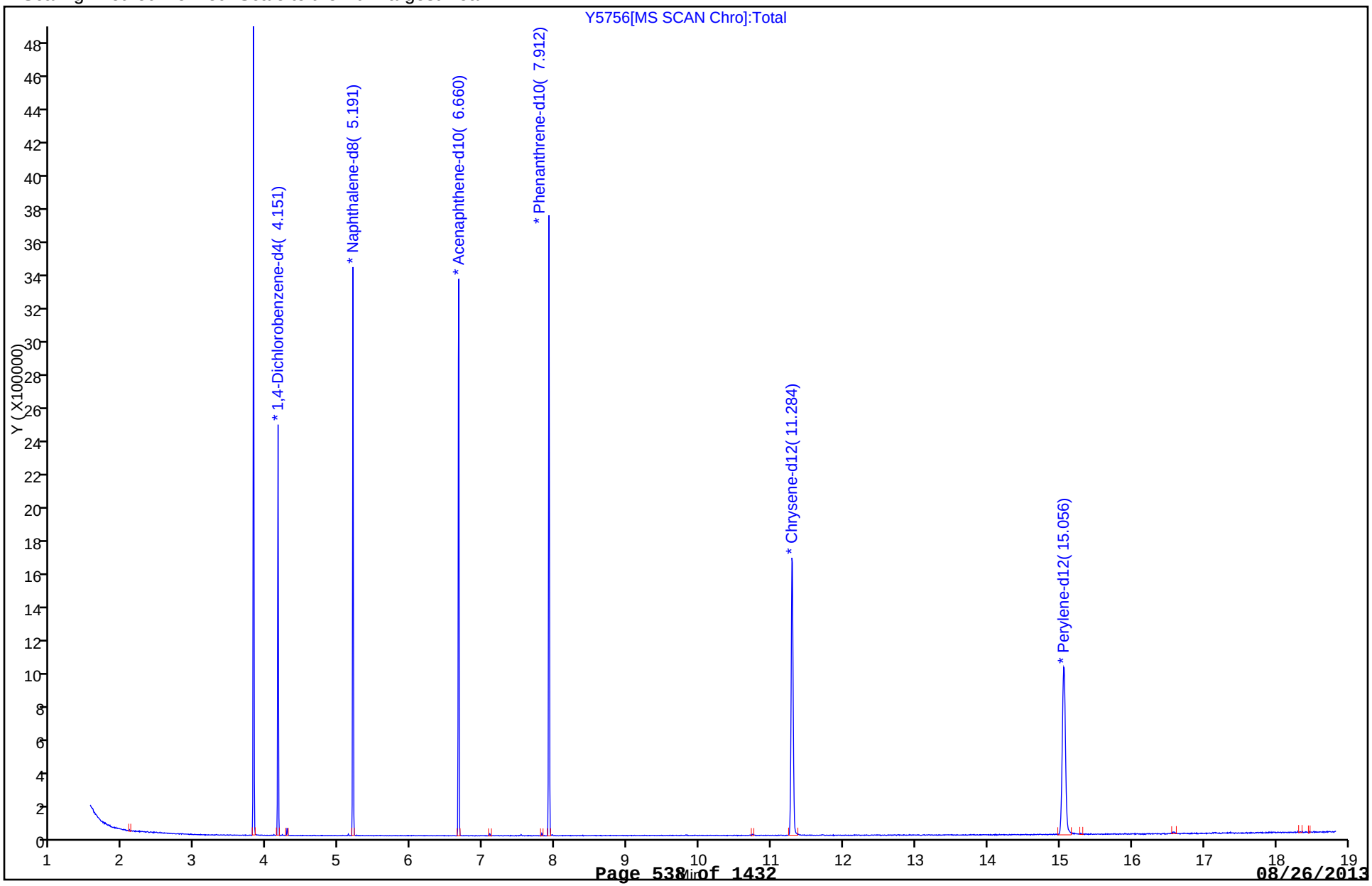
Report Date: 15-Aug-2013 10:01:41 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5756.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 11:45:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 6 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D
Lims ID: DFTPP Client ID:
Inject. Date: 03-Jun-2013 13:17:30 Dil. Factor: 1.0000
Sample Type: DFTPP
Sample ID: DFTPP
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 1
Lims Batch ID: 177034 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 05-Jun-2013 08:48:40 Calib Date: 03-Jun-2013 20:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4766.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 03-Jun-2013 13:26:27

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 36 Pentachlorophenol_T | 266 | 3.626 | 3.626 | 0.0 | 78 | 312362 | 0 | |
| 38 DFTPP | | | | | | | | |
| 53 Benzidine_T | 184 | 4.741 | 4.741 | 0.0 | 95 | 1564682 | 0 | |
| 57 4,4'-DDE | 246 | | 4.843 | | | | | 9 |
| 68 4,4'-DDD | 235 | 5.152 | 5.152 | 0.0 | 74 | 7296 | 0 | |
| 72 4,4'-DDT | 235 | 5.358 | 5.358 | 0.0 | 95 | 747712 | 0 | |

QC Flag Legend

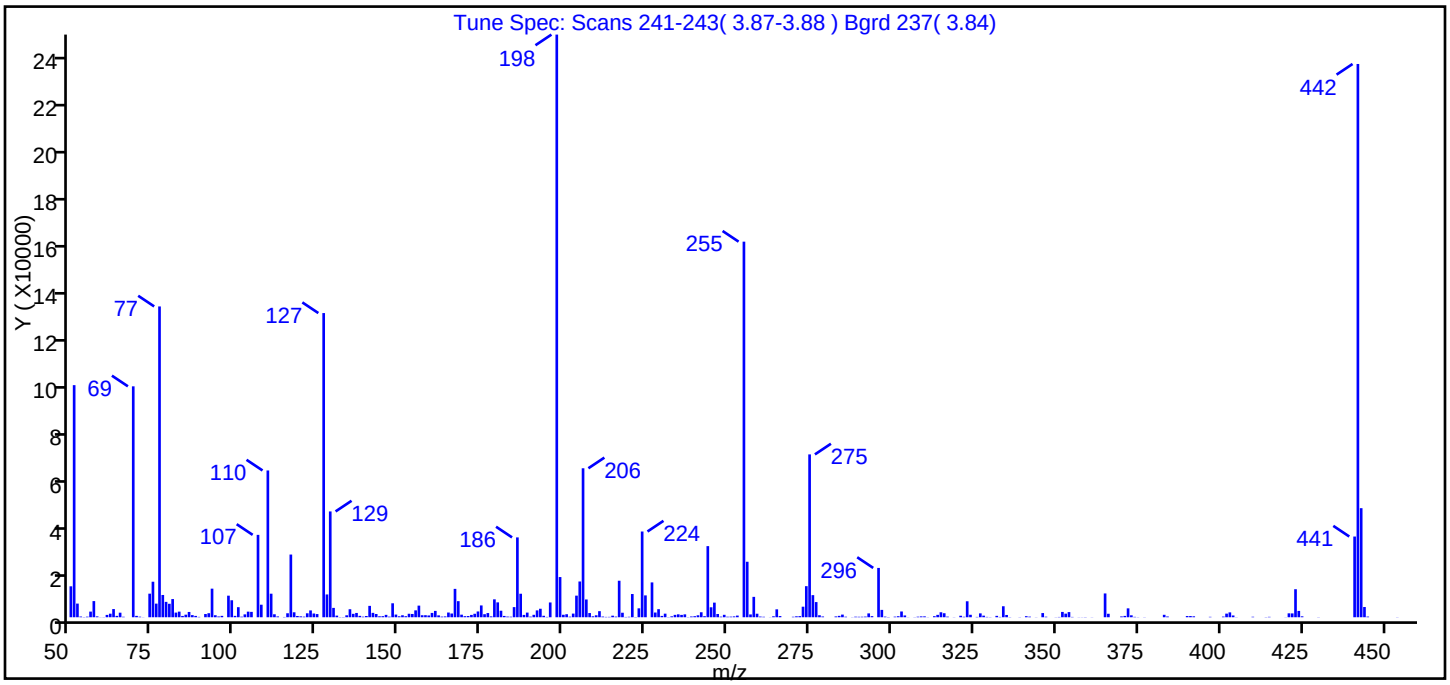
Processing Flags
9 - Failed A Reference Spectral Test

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D | | |
| Injection Date: | 03-Jun-2013 13:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Tune Method: | DFTPP Method 8270 | | |

38 DFTPP




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 30.00 - 60.00% of mass 198 | 39.84 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Present | 39.63 |
| 70 | Less than 2.00% of mass 69 | 0.24 ( 0.60) |
| 127 | 40.00 - 60.00% of mass 198 | 52.21 |
| 197 | Less than 1.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.90 |
| 275 | 10.00 - 30.00% of mass 198 | 27.95 |
| 365 | Greater than 1.00% of mass 198 | 4.09 |
| 441 | Present, but less than mass 443% | 13.85 ( 74.00) |
| 442 | Greater than 40.00% of mass 198 | 94.96 |
| 443 | 17.00 - 23.00% of mass 442 | 18.72 ( 19.72) |

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D\SMSY_8270C.rslt\spectra.d
Injection Date: 03-Jun-2013 13:17:30
Spectrum: Tune Spec: Scans 241-243( 3.87-3.88 ) Bgrd 237( 3.84)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 311

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 50.00 | 13208 | 137.00 | 1836 | 216.00 | 280 | 307.00 | 66 |
| 51.00 | 99072 | 138.00 | 595 | 217.00 | 15587 | 308.00 | 241 |
| 52.00 | 5833 | 139.00 | 252 | 218.00 | 1930 | 309.00 | 370 |
| 53.00 | 309 | 140.00 | 538 | 219.00 | 134 | 310.00 | 379 |
| 54.00 | 93 | 141.00 | 4857 | 220.00 | 209 | 311.00 | 59 |
| 55.00 | 251 | 142.00 | 1877 | 221.00 | 9915 | 313.00 | 452 |
| 56.00 | 2414 | 143.00 | 1387 | 222.00 | 111 | 314.00 | 1022 |
| 57.00 | 6898 | 144.00 | 423 | 223.00 | 3816 | 315.00 | 2131 |
| 58.00 | 375 | 145.00 | 466 | 224.00 | 36600 | 316.00 | 1715 |
| 59.00 | 56 | 146.00 | 1024 | 225.00 | 9333 | 317.00 | 273 |
| 60.00 | 76 | 147.00 | 260 | 227.00 | 14872 | 319.00 | 58 |
| 61.00 | 1004 | 148.00 | 5963 | 228.00 | 2016 | 321.00 | 644 |
| 62.00 | 1519 | 149.00 | 1146 | 229.00 | 3453 | 322.00 | 208 |
| 63.00 | 3499 | 150.00 | 415 | 230.00 | 575 | 323.00 | 6824 |
| 64.00 | 591 | 151.00 | 849 | 231.00 | 1535 | 324.00 | 1057 |
| 65.00 | 1950 | 152.00 | 444 | 232.00 | 92 | 326.00 | 146 |
| 66.00 | 210 | 153.00 | 1491 | 233.00 | 398 | 327.00 | 1660 |
| 69.00 | 98568 | 154.00 | 1405 | 234.00 | 1020 | 328.00 | 684 |
| 70.00 | 592 | 155.00 | 2945 | 235.00 | 1242 | 329.00 | 157 |
| 71.00 | 248 | 156.00 | 4966 | 236.00 | 1006 | 330.00 | 75 |
| 72.00 | 53 | 157.00 | 861 | 237.00 | 1238 | 332.00 | 598 |
| 74.00 | 10068 | 158.00 | 878 | 238.00 | 87 | 333.00 | 141 |
| 75.00 | 15167 | 159.00 | 764 | 239.00 | 335 | 334.00 | 4695 |
| 76.00 | 5815 | 160.00 | 1845 | 240.00 | 453 | 335.00 | 976 |
| 77.00 | 132672 | 161.00 | 2712 | 241.00 | 837 | 336.00 | 83 |
| 78.00 | 9508 | 162.00 | 807 | 242.00 | 2132 | 339.00 | 70 |
| 79.00 | 6567 | 163.00 | 279 | 243.00 | 446 | 341.00 | 462 |
| 80.00 | 5749 | 164.00 | 352 | 244.00 | 30360 | 342.00 | 267 |
| 81.00 | 7766 | 165.00 | 2010 | 245.00 | 4253 | 344.00 | 54 |
| 82.00 | 1990 | 166.00 | 1596 | 246.00 | 6244 | 346.00 | 1787 |
| 83.00 | 2407 | 167.00 | 12117 | 247.00 | 1392 | 347.00 | 241 |
| 84.00 | 561 | 168.00 | 6872 | 248.00 | 259 | 350.00 | 61 |
| 85.00 | 1102 | 169.00 | 1101 | 249.00 | 1043 | 351.00 | 133 |

Report Date: 05-Jun-2013 08:48:41 Chrom Revision: 2.0 25-Apr-2013 12:05:30
Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D\SMSY_8270C.rslt\spectra.d
Injection Date: 03-Jun-2013 13:17:30
Spectrum: Tune Spec: Scans 241-243( 3.87-3.88 ) Bgrd 237( 3.84)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 311

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 86.00 | 2261 | 170.00 | 460 | 250.00 | 231 | 352.00 | 2276 |
| 87.00 | 911 | 171.00 | 524 | 251.00 | 264 | 353.00 | 1536 |
| 88.00 | 575 | 172.00 | 996 | 252.00 | 365 | 354.00 | 2200 |
| 89.00 | 164 | 173.00 | 1486 | 253.00 | 714 | 355.00 | 144 |
| 91.00 | 1378 | 174.00 | 2472 | 255.00 | 160320 | 357.00 | 51 |
| 92.00 | 1727 | 175.00 | 5045 | 256.00 | 23688 | 358.00 | 52 |
| 93.00 | 12208 | 176.00 | 1306 | 257.00 | 1204 | 359.00 | 83 |
| 94.00 | 862 | 177.00 | 1791 | 258.00 | 8705 | 361.00 | 54 |
| 95.00 | 337 | 178.00 | 373 | 259.00 | 1511 | 365.00 | 10163 |
| 96.00 | 596 | 179.00 | 7652 | 260.00 | 297 | 366.00 | 1491 |
| 98.00 | 9212 | 180.00 | 6353 | 261.00 | 209 | 370.00 | 357 |
| 99.00 | 7254 | 181.00 | 2789 | 263.00 | 51 | 371.00 | 576 |
| 100.00 | 586 | 182.00 | 564 | 264.00 | 411 | 372.00 | 3802 |
| 101.00 | 4299 | 183.00 | 291 | 265.00 | 3387 | 373.00 | 827 |
| 102.00 | 247 | 184.00 | 239 | 266.00 | 507 | 374.00 | 170 |
| 103.00 | 1232 | 185.00 | 4329 | 270.00 | 216 | 375.00 | 66 |
| 104.00 | 2394 | 186.00 | 34088 | 271.00 | 409 | 377.00 | 64 |
| 105.00 | 2299 | 187.00 | 10038 | 272.00 | 477 | 383.00 | 1047 |
| 107.00 | 35168 | 188.00 | 998 | 273.00 | 4506 | 384.00 | 323 |
| 108.00 | 5354 | 189.00 | 1987 | 274.00 | 13269 | 390.00 | 520 |
| 110.00 | 62656 | 190.00 | 268 | 275.00 | 69512 | 391.00 | 520 |
| 111.00 | 10056 | 191.00 | 1043 | 276.00 | 9439 | 392.00 | 402 |
| 112.00 | 1274 | 192.00 | 2935 | 277.00 | 6480 | 397.00 | 183 |
| 113.00 | 352 | 193.00 | 3631 | 278.00 | 862 | 401.00 | 286 |
| 115.00 | 122 | 194.00 | 629 | 279.00 | 333 | 402.00 | 1548 |
| 116.00 | 1706 | 195.00 | 152 | 283.00 | 353 | 403.00 | 2082 |
| 117.00 | 26768 | 196.00 | 6313 | 284.00 | 598 | 404.00 | 759 |
| 118.00 | 2123 | 198.00 | 248704 | 285.00 | 1137 | 405.00 | 58 |
| 119.00 | 541 | 199.00 | 17160 | 286.00 | 237 | 410.00 | 215 |
| 120.00 | 381 | 200.00 | 1064 | 288.00 | 61 | 414.00 | 85 |
| 121.00 | 260 | 201.00 | 1291 | 289.00 | 243 | 415.00 | 180 |
| 122.00 | 1692 | 202.00 | 254 | 290.00 | 205 | 420.00 | 50 |
| 123.00 | 2914 | 203.00 | 1562 | 291.00 | 223 | 421.00 | 1672 |
| 124.00 | 1598 | 204.00 | 9224 | 292.00 | 284 | 422.00 | 1645 |

Report Date: 05-Jun-2013 08:48:41 Chrom Revision: 2.0 25-Apr-2013 12:05:30
Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D\SMSY_8270C.rslt\spectra.d
Injection Date: 03-Jun-2013 13:17:30
Spectrum: Tune Spec: Scans 241-243( 3.87-3.88 ) Bgrd 237( 3.84)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 311

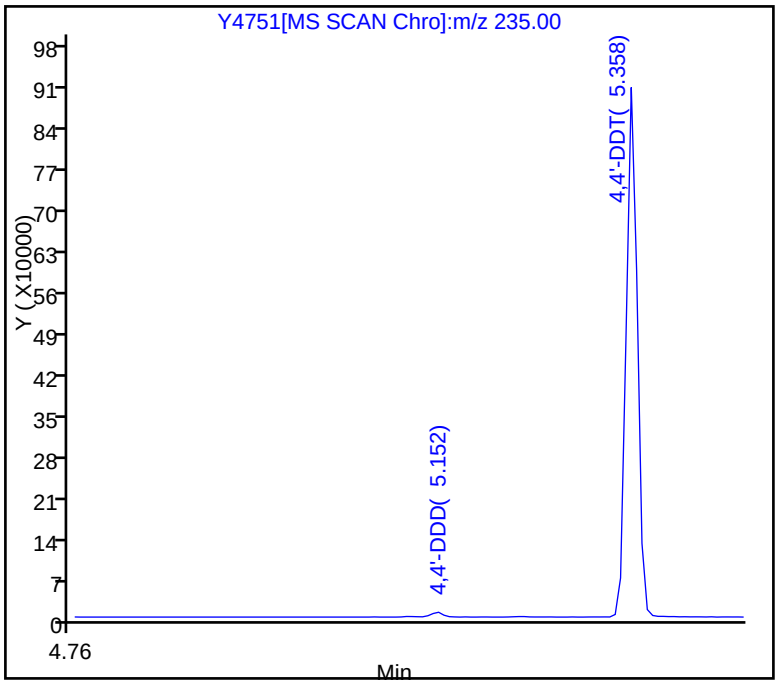
| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 125.00 | 1363 | 205.00 | 15270 | 293.00 | 1647 | 423.00 | 11966 |
| 127.00 | 129840 | 206.00 | 63592 | 294.00 | 474 | 424.00 | 2705 |
| 128.00 | 9734 | 207.00 | 7591 | 296.00 | 21056 | 425.00 | 398 |
| 129.00 | 45168 | 208.00 | 1797 | 297.00 | 3145 | 430.00 | 68 |
| 130.00 | 3997 | 209.00 | 410 | 298.00 | 277 | 441.00 | 34456 |
| 131.00 | 699 | 210.00 | 842 | 299.00 | 104 | 442.00 | 236160 |
| 132.00 | 98 | 211.00 | 2598 | 301.00 | 262 | 443.00 | 46560 |
| 133.00 | 101 | 212.00 | 301 | 302.00 | 441 | 444.00 | 4370 |
| 134.00 | 832 | 213.00 | 156 | 303.00 | 2469 | 445.00 | 288 |
| 135.00 | 3424 | 214.00 | 167 | 304.00 | 770 | 454.00 | 61 |
| 136.00 | 1460 | 215.00 | 668 | 305.00 | 51 | | |

Breakdown Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D | | |
| Injection Date: | 03-Jun-2013 13:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

72 4,4'-DDT, Detector: MS SCAN




SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

72 4,4'-DDT, Area = 747712
68 4,4'-DDD, Area = 7296
57 4,4'-DDE, Area = 0

%Breakdown: 0.97%, Max Limit: 20.00%
Passed

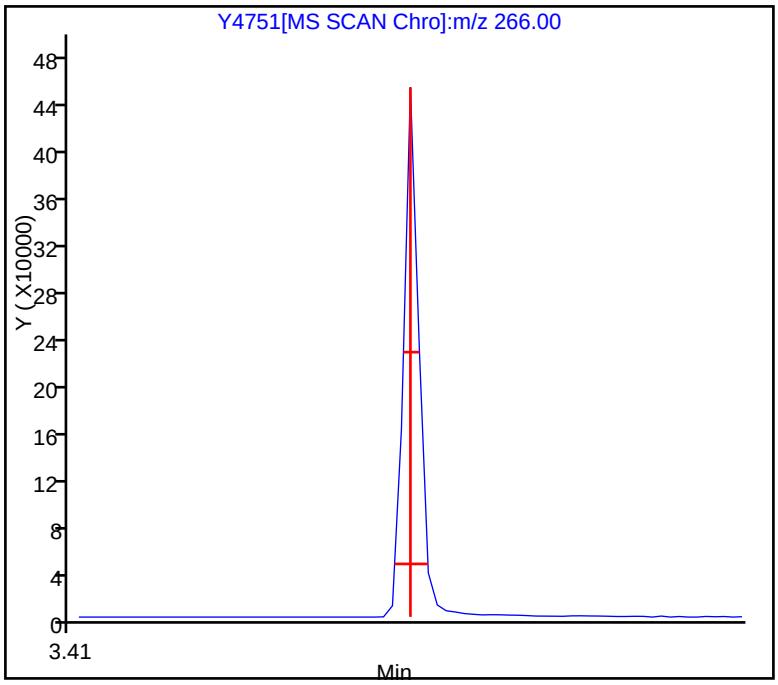
Peak Tailing Report

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 13:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

36 Pentachlorophenol_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.1, Max. Tailing < 5.00
Passed
---

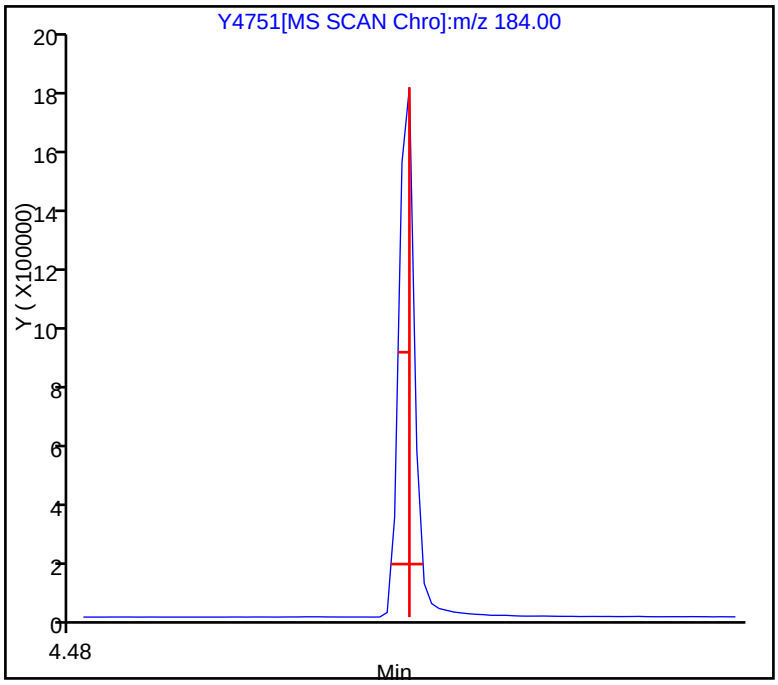
Peak Tailing Report

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130603-12203.b\Y4751.D

| | | | |
|---|---|---|---|
| Injection Date: | 03-Jun-2013 13:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 177034 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

53 Benzidine_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.7, Max. Tailing < 3.00
Passed
---

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D
Lims ID: DFTPP Client ID:
Inject. Date: 17-Jun-2013 07:17:30 Dil. Factor: 1.0000
Sample Type: DFTPP
Sample ID: DFTPP
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 1
Lims Batch ID: 179033 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 19-Jun-2013 10:52:02 Calib Date: 17-Jun-2013 10:33:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5015.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: DENPC246

First Level Reviewer: hoffmanm Date: 17-Jun-2013 07:29:22

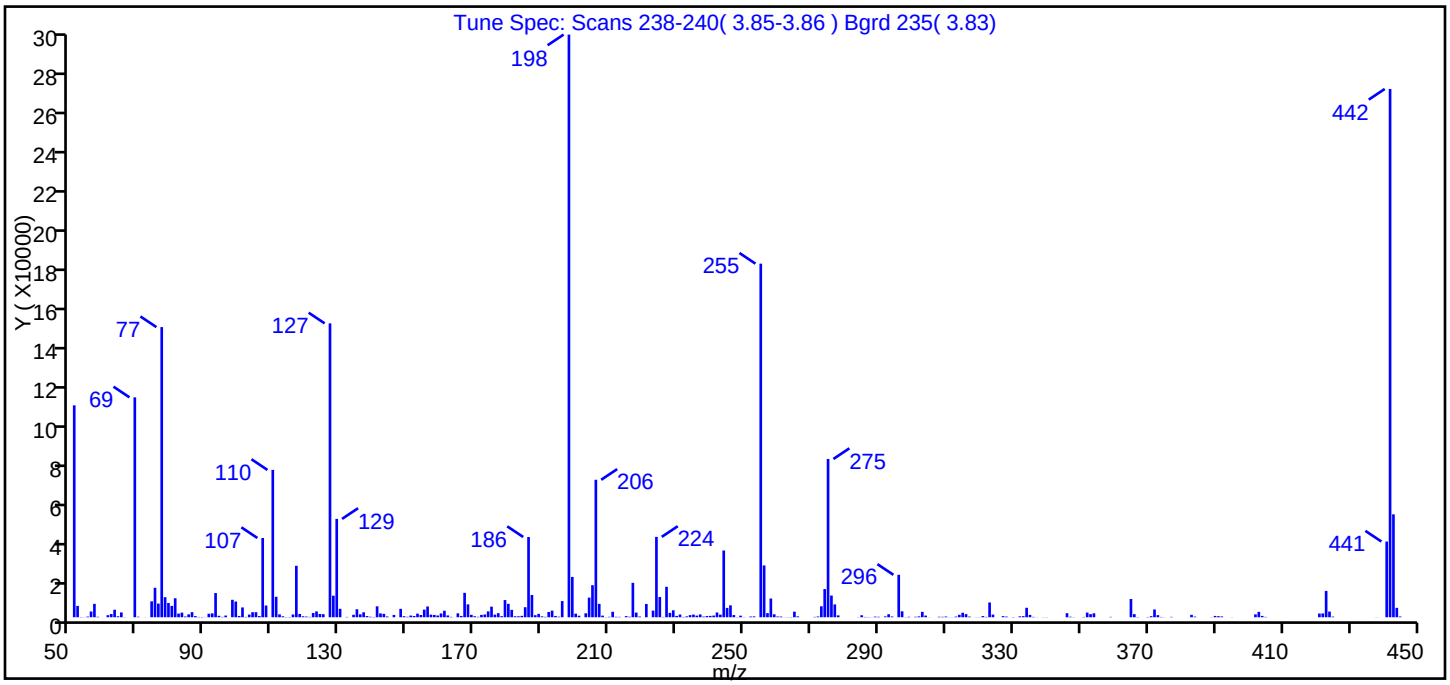
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 36 Pentachlorophenol_T | 266 | 3.613 | 3.615 | -0.003 | 80 | 277465 | 0 | |
| 38 DFTPP | | | | | | | | |
| 53 Benzidine_T | 184 | 4.704 | 4.713 | -0.009 | 96 | 1935091 | 0 | |
| 57 4,4'-DDE | 246 | 4.819 | 4.822 | -0.003 | 37 | 1151 | 0 | |
| 68 4,4'-DDD | 235 | 5.099 | 5.107 | -0.008 | 80 | 11613 | 0 | |
| 72 4,4'-DDT | 235 | 5.293 | 5.307 | -0.014 | 94 | 944636 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D | | |
| Injection Date: | 17-Jun-2013 07:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Tune Method: | DFTPP Method 8270 | | |

38 DFTPP




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 30.00 - 60.00% of mass 198 | 36.37 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Present | 37.74 |
| 70 | Less than 2.00% of mass 69 | 0.09 ( 0.24) |
| 127 | 40.00 - 60.00% of mass 198 | 50.44 |
| 197 | Less than 1.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.92 |
| 275 | 10.00 - 30.00% of mass 198 | 27.16 |
| 365 | Greater than 1.00% of mass 198 | 3.13 |
| 441 | Present, but less than mass 443% | 13.00 ( 73.58) |
| 442 | Greater than 40.00% of mass 198 | 90.67 |
| 443 | 17.00 - 23.00% of mass 442 | 17.66 ( 19.48) |

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D\SMSY_8270C.rslt\spectra.d
Injection Date: 17-Jun-2013 07:17:30
Spectrum: Tune Spec: Scans 238-240( 3.85-3.86 ) Bgrd 235( 3.83)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 51.00 | 109008 | 132.00 | 175 | 211.00 | 2832 | 301.00 | 252 |
| 52.00 | 5837 | 134.00 | 1272 | 212.00 | 247 | 302.00 | 453 |
| 53.00 | 131 | 135.00 | 4128 | 213.00 | 196 | 303.00 | 2781 |
| 54.00 | 59 | 136.00 | 1511 | 215.00 | 590 | 304.00 | 848 |
| 55.00 | 336 | 137.00 | 2569 | 216.00 | 285 | 305.00 | 67 |
| 56.00 | 2974 | 138.00 | 614 | 217.00 | 17704 | 308.00 | 257 |
| 57.00 | 6906 | 139.00 | 269 | 218.00 | 2406 | 309.00 | 228 |
| 58.00 | 246 | 140.00 | 148 | 219.00 | 385 | 310.00 | 380 |
| 61.00 | 1072 | 141.00 | 5622 | 221.00 | 6831 | 311.00 | 56 |
| 62.00 | 1655 | 142.00 | 1983 | 223.00 | 3406 | 312.00 | 51 |
| 63.00 | 3861 | 143.00 | 1749 | 224.00 | 41352 | 313.00 | 349 |
| 64.00 | 494 | 144.00 | 398 | 225.00 | 10409 | 314.00 | 1262 |
| 65.00 | 2481 | 146.00 | 1185 | 226.00 | 164 | 315.00 | 2319 |
| 66.00 | 93 | 148.00 | 4340 | 227.00 | 15672 | 316.00 | 1609 |
| 69.00 | 113120 | 149.00 | 536 | 228.00 | 2261 | 317.00 | 346 |
| 70.00 | 271 | 150.00 | 235 | 229.00 | 3597 | 319.00 | 68 |
| 71.00 | 1 | 151.00 | 882 | 230.00 | 689 | 320.00 | 70 |
| 72.00 | 54 | 152.00 | 651 | 231.00 | 1393 | 321.00 | 604 |
| 74.00 | 8181 | 153.00 | 1868 | 232.00 | 176 | 322.00 | 179 |
| 75.00 | 15146 | 154.00 | 1159 | 233.00 | 447 | 323.00 | 7602 |
| 76.00 | 7020 | 155.00 | 3929 | 234.00 | 1106 | 324.00 | 1358 |
| 77.00 | 149248 | 156.00 | 5541 | 235.00 | 1383 | 327.00 | 571 |
| 78.00 | 10327 | 157.00 | 1335 | 236.00 | 854 | 328.00 | 354 |
| 79.00 | 7333 | 158.00 | 1177 | 237.00 | 1450 | 330.00 | 128 |
| 80.00 | 5854 | 159.00 | 897 | 238.00 | 335 | 332.00 | 473 |
| 81.00 | 9771 | 160.00 | 1966 | 239.00 | 614 | 333.00 | 560 |
| 82.00 | 1875 | 161.00 | 3359 | 240.00 | 706 | 334.00 | 4874 |
| 83.00 | 2377 | 162.00 | 941 | 241.00 | 868 | 335.00 | 1199 |
| 84.00 | 385 | 163.00 | 202 | 242.00 | 2451 | 336.00 | 195 |
| 85.00 | 1488 | 165.00 | 2016 | 243.00 | 1349 | 337.00 | 54 |
| 86.00 | 2634 | 166.00 | 671 | 244.00 | 34336 | 339.00 | 73 |
| 87.00 | 599 | 167.00 | 12565 | 245.00 | 4817 | 340.00 | 66 |
| 88.00 | 162 | 168.00 | 6645 | 246.00 | 6136 | 346.00 | 2079 |

Report Date: 19-Jun-2013 10:52:03 Chrom Revision: 2.0 25-Apr-2013 12:05:30
Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D\SMSY_8270C.rslt\spectra.d
Injection Date: 17-Jun-2013 07:17:30
Spectrum: Tune Spec: Scans 238-240( 3.85-3.86 ) Bgrd 235( 3.83)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 89.00 | 154 | 169.00 | 1239 | 247.00 | 1125 | 347.00 | 276 |
| 90.00 | 62 | 170.00 | 514 | 248.00 | 102 | 348.00 | 85 |
| 91.00 | 1808 | 171.00 | 222 | 249.00 | 816 | 351.00 | 162 |
| 92.00 | 1998 | 172.00 | 1211 | 250.00 | 92 | 352.00 | 2389 |
| 93.00 | 12449 | 173.00 | 1435 | 252.00 | 369 | 353.00 | 1613 |
| 94.00 | 742 | 174.00 | 3025 | 253.00 | 438 | 354.00 | 2038 |
| 95.00 | 185 | 175.00 | 5448 | 255.00 | 181888 | 359.00 | 194 |
| 96.00 | 871 | 176.00 | 1352 | 256.00 | 26648 | 365.00 | 9390 |
| 97.00 | 15 | 177.00 | 2102 | 257.00 | 2119 | 366.00 | 1594 |
| 98.00 | 8976 | 178.00 | 543 | 258.00 | 9636 | 367.00 | 125 |
| 99.00 | 8081 | 179.00 | 8842 | 259.00 | 1524 | 370.00 | 146 |
| 100.00 | 670 | 180.00 | 6899 | 260.00 | 381 | 371.00 | 543 |
| 101.00 | 5050 | 181.00 | 3812 | 261.00 | 368 | 372.00 | 3997 |
| 102.00 | 187 | 182.00 | 508 | 262.00 | 64 | 373.00 | 1078 |
| 103.00 | 1371 | 183.00 | 501 | 263.00 | 78 | 374.00 | 155 |
| 104.00 | 2609 | 184.00 | 730 | 264.00 | 138 | 375.00 | 53 |
| 105.00 | 2600 | 185.00 | 5163 | 265.00 | 2869 | 377.00 | 203 |
| 106.00 | 605 | 186.00 | 41280 | 266.00 | 450 | 383.00 | 1240 |
| 107.00 | 40776 | 187.00 | 11453 | 271.00 | 186 | 384.00 | 335 |
| 108.00 | 6050 | 188.00 | 1054 | 272.00 | 402 | 389.00 | 69 |
| 110.00 | 75784 | 189.00 | 1759 | 273.00 | 5643 | 390.00 | 685 |
| 111.00 | 10542 | 190.00 | 468 | 274.00 | 14476 | 391.00 | 548 |
| 112.00 | 1495 | 191.00 | 213 | 275.00 | 81416 | 392.00 | 418 |
| 113.00 | 501 | 192.00 | 2708 | 276.00 | 11160 | 395.00 | 66 |
| 114.00 | 138 | 193.00 | 3412 | 277.00 | 6610 | 402.00 | 1486 |
| 115.00 | 135 | 194.00 | 684 | 278.00 | 970 | 403.00 | 2772 |
| 116.00 | 1430 | 195.00 | 291 | 284.00 | 79 | 404.00 | 685 |
| 117.00 | 26472 | 196.00 | 8323 | 285.00 | 1024 | 405.00 | 189 |
| 118.00 | 1704 | 198.00 | 299712 | 286.00 | 169 | 421.00 | 1921 |
| 119.00 | 502 | 199.00 | 20736 | 287.00 | 118 | 422.00 | 1978 |
| 120.00 | 354 | 200.00 | 1853 | 288.00 | 50 | 423.00 | 13541 |
| 121.00 | 189 | 201.00 | 789 | 289.00 | 337 | 424.00 | 2916 |
| 122.00 | 2194 | 203.00 | 2025 | 290.00 | 240 | 425.00 | 338 |
| 123.00 | 3000 | 204.00 | 10106 | 292.00 | 447 | 438.00 | 59 |

Report Date: 19-Jun-2013 10:52:03 Chrom Revision: 2.0 25-Apr-2013 12:05:30
Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D\SMSY_8270C.rslt\spectra.d
Injection Date: 17-Jun-2013 07:17:30
Spectrum: Tune Spec: Scans 238-240( 3.85-3.86 ) Bgrd 235( 3.83)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

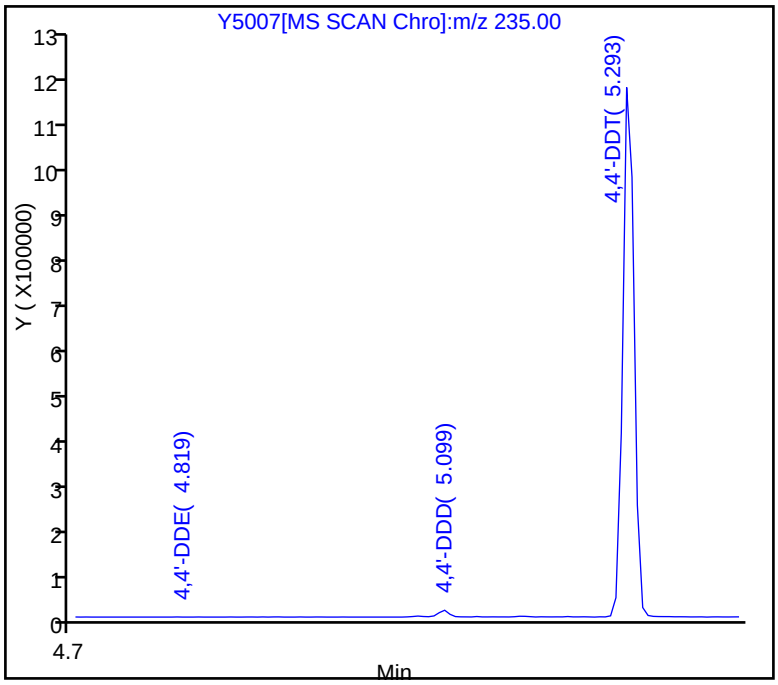
| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 124.00 | 1702 | 205.00 | 16504 | 293.00 | 1559 | 441.00 | 38952 |
| 125.00 | 1582 | 206.00 | 70712 | 294.00 | 409 | 442.00 | 271744 |
| 127.00 | 151168 | 207.00 | 6889 | 296.00 | 21832 | 443.00 | 52936 |
| 128.00 | 11090 | 208.00 | 837 | 297.00 | 3053 | 444.00 | 4843 |
| 129.00 | 50600 | 209.00 | 97 | 298.00 | 83 | 445.00 | 387 |
| 130.00 | 4348 | 210.00 | 232 | 299.00 | 255 | | |

Breakdown Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D | | |
| Injection Date: | 17-Jun-2013 07:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

72 4,4'-DDT, Detector: MS SCAN




SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

72 4,4'-DDT, Area = 944636
68 4,4'-DDD, Area = 11613
57 4,4'-DDE, Area = 1151

%Breakdown: 1.33%, Max Limit: 20.00%
Passed

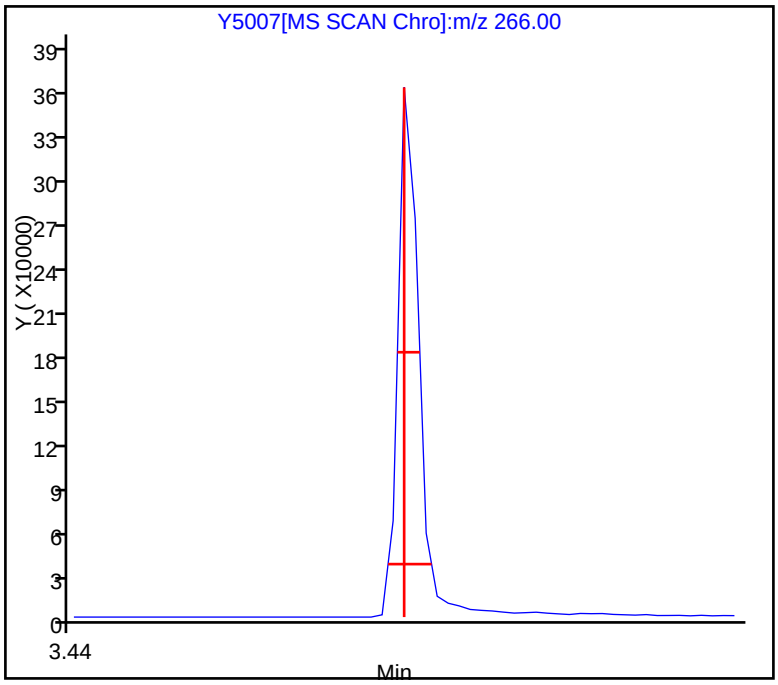
Peak Tailing Report

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 07:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

36 Pentachlorophenol_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.008 (min.)

Tailing Factor = 1.7, Max. Tailing < 5.00
Passed
---

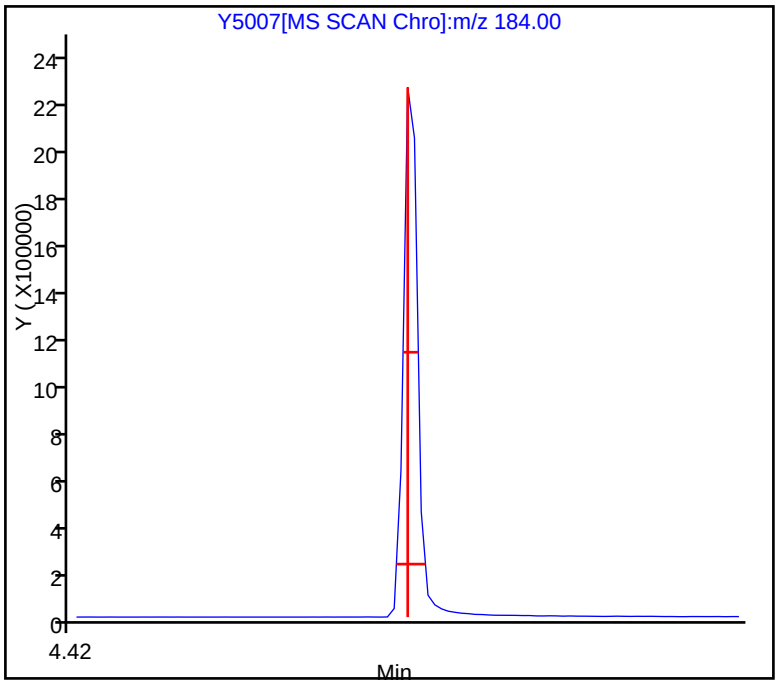
Peak Tailing Report

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130617-12632.b\Y5007.D

| | | | |
|---|---|---|---|
| Injection Date: | 17-Jun-2013 07:17:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 179033 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

53 Benzidine_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.6, Max. Tailing < 3.00
Passed
---

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D
Lims ID: DFTPP Client ID:
Inject. Date: 06-Aug-2013 08:01:30 Dil. Factor: 1.0000
Sample Type: DFTPP
Sample ID: DFTPP
Misc. Info.:
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 1
Lims Batch ID: 185961 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 07-Aug-2013 06:36:00 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK003

First Level Reviewer: hoffmanm Date: 06-Aug-2013 08:14:39

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 36 Pentachlorophenol_T | 266 | 3.565 | 3.577 | -0.012 | 82 | 345604 | 0 | |
| 38 DFTPP | | | | | | | | |
| 53 Benzidine_T | 184 | 4.657 | 4.663 | -0.006 | 96 | 1789330 | 0 | |
| 57 4,4'-DDE | 246 | | 4.822 | | | | | 9 |
| 68 4,4'-DDD | 235 | 5.040 | 5.057 | -0.017 | 76 | 8388 | 0 | |
| 72 4,4'-DDT | 235 | 5.234 | 5.239 | -0.005 | 97 | 840871 | 0 | |

QC Flag Legend

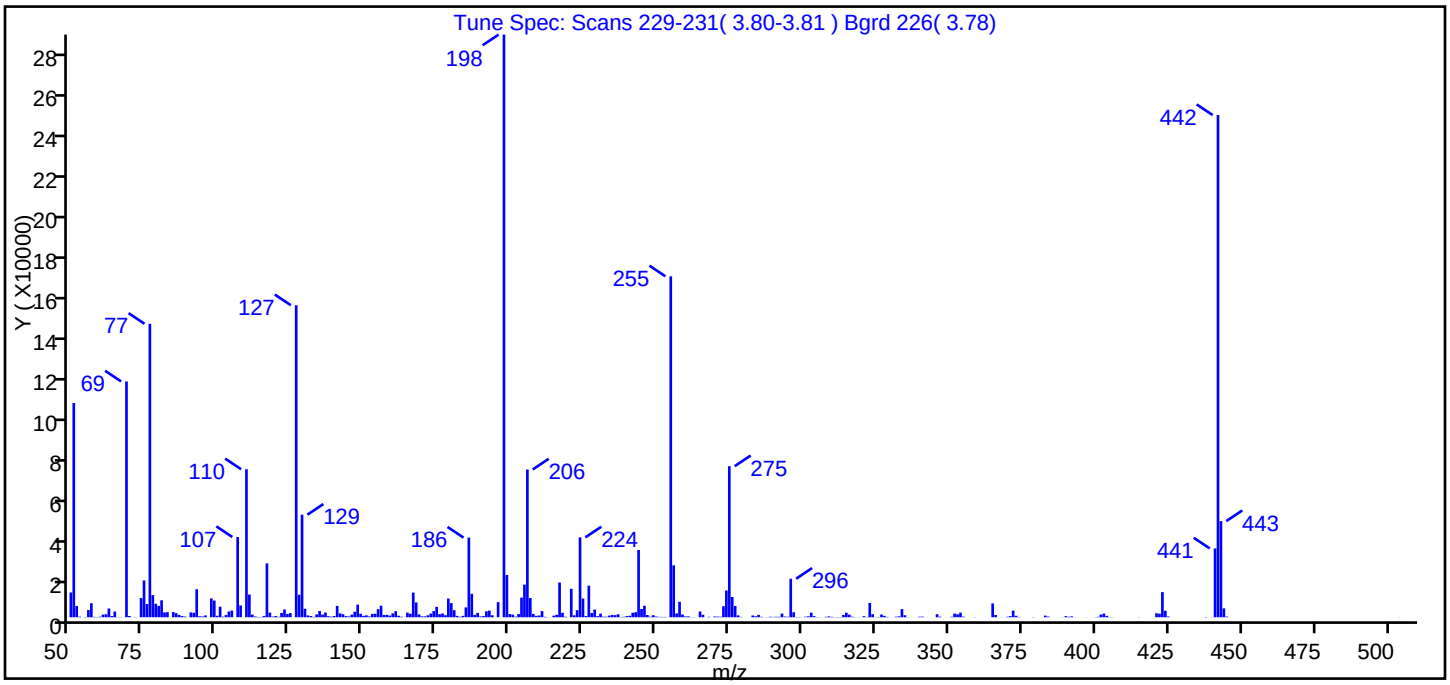
Processing Flags
9 - Failed A Reference Spectral Test

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D | | |
| Injection Date: | 06-Aug-2013 08:01:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Tune Method: | DFTPP Method 8270 | | |

38 DFTPP




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 30.00 - 60.00% of mass 198 | 36.78 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Present | 40.47 |
| 70 | Less than 2.00% of mass 69 | 0.22 ( 0.54) |
| 127 | 40.00 - 60.00% of mass 198 | 53.55 |
| 197 | Less than 1.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 7.25 |
| 275 | 10.00 - 30.00% of mass 198 | 25.92 |
| 365 | Greater than 1.00% of mass 198 | 2.37 |
| 441 | Present, but less than mass 443% | 11.81 ( 71.59) |
| 442 | Greater than 40.00% of mass 198 | 86.19 |
| 443 | 17.00 - 23.00% of mass 442 | 16.50 ( 19.14) |

Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D\SMSY_8270C.rslt\spectra.d
Injection Date: 06-Aug-2013 08:01:30
Spectrum: Tune Spec: Scans 229-231( 3.80-3.81 ) Bgrd 226( 3.78)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 50.00 | 11954 | 137.00 | 2281 | 218.00 | 2138 | 305.00 | 87 |
| 51.00 | 103424 | 138.00 | 501 | 219.00 | 251 | 306.00 | 56 |
| 52.00 | 5402 | 139.00 | 292 | 221.00 | 13723 | 308.00 | 206 |
| 53.00 | 284 | 140.00 | 588 | 222.00 | 945 | 309.00 | 439 |
| 55.00 | 126 | 141.00 | 5474 | 223.00 | 3432 | 310.00 | 220 |
| 56.00 | 3486 | 142.00 | 1873 | 224.00 | 38560 | 311.00 | 97 |
| 57.00 | 6779 | 143.00 | 1456 | 225.00 | 9028 | 312.00 | 116 |
| 58.00 | 192 | 144.00 | 572 | 226.00 | 595 | 313.00 | 124 |
| 59.00 | 127 | 145.00 | 389 | 227.00 | 15231 | 314.00 | 1098 |
| 60.00 | 284 | 146.00 | 1247 | 228.00 | 2052 | 315.00 | 2181 |
| 61.00 | 1285 | 147.00 | 2650 | 229.00 | 3722 | 316.00 | 1265 |
| 62.00 | 1436 | 148.00 | 6115 | 230.00 | 543 | 317.00 | 298 |
| 63.00 | 4226 | 149.00 | 1676 | 231.00 | 1749 | 318.00 | 52 |
| 64.00 | 614 | 150.00 | 690 | 232.00 | 294 | 319.00 | 67 |
| 65.00 | 2748 | 151.00 | 920 | 233.00 | 270 | 321.00 | 526 |
| 66.00 | 78 | 152.00 | 388 | 234.00 | 815 | 322.00 | 113 |
| 67.00 | 63 | 153.00 | 1644 | 235.00 | 1081 | 323.00 | 6895 |
| 69.00 | 113816 | 154.00 | 1699 | 236.00 | 1013 | 324.00 | 1467 |
| 70.00 | 612 | 155.00 | 3928 | 237.00 | 1454 | 325.00 | 64 |
| 72.00 | 89 | 156.00 | 5576 | 238.00 | 138 | 326.00 | 129 |
| 74.00 | 9239 | 157.00 | 1087 | 239.00 | 212 | 327.00 | 1330 |
| 75.00 | 17776 | 158.00 | 1203 | 240.00 | 576 | 328.00 | 673 |
| 76.00 | 6390 | 159.00 | 815 | 241.00 | 708 | 329.00 | 159 |
| 77.00 | 141632 | 160.00 | 1867 | 242.00 | 2177 | 332.00 | 277 |
| 78.00 | 10691 | 161.00 | 2953 | 243.00 | 2454 | 333.00 | 446 |
| 79.00 | 6528 | 162.00 | 735 | 244.00 | 32472 | 334.00 | 3950 |
| 80.00 | 5470 | 163.00 | 265 | 245.00 | 3993 | 335.00 | 967 |
| 81.00 | 8182 | 165.00 | 2228 | 246.00 | 5549 | 336.00 | 73 |
| 82.00 | 2321 | 166.00 | 1716 | 247.00 | 1077 | 340.00 | 259 |
| 83.00 | 2469 | 167.00 | 11915 | 248.00 | 248 | 341.00 | 320 |
| 85.00 | 2503 | 168.00 | 7141 | 249.00 | 998 | 346.00 | 1483 |
| 86.00 | 1964 | 169.00 | 1337 | 250.00 | 351 | 347.00 | 309 |
| 87.00 | 1138 | 170.00 | 435 | 251.00 | 183 | 351.00 | 244 |

Report Date: 07-Aug-2013 06:36:01 Chrom Revision: 2.0 14-Jul-2013 20:56:00
Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D\SMSY_8270C.rslt\spectra.d
Injection Date: 06-Aug-2013 08:01:30
Spectrum: Tune Spec: Scans 229-231( 3.80-3.81 ) Bgrd 226( 3.78)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 88.00 | 572 | 171.00 | 423 | 252.00 | 168 | 352.00 | 1766 |
| 89.00 | 345 | 172.00 | 942 | 253.00 | 164 | 353.00 | 1425 |
| 91.00 | 2322 | 173.00 | 1776 | 255.00 | 164544 | 354.00 | 2221 |
| 92.00 | 2149 | 174.00 | 2991 | 256.00 | 25080 | 355.00 | 298 |
| 93.00 | 13518 | 175.00 | 5005 | 257.00 | 1855 | 359.00 | 92 |
| 94.00 | 487 | 176.00 | 1476 | 258.00 | 7459 | 365.00 | 6664 |
| 95.00 | 374 | 177.00 | 1842 | 259.00 | 1324 | 366.00 | 1109 |
| 96.00 | 882 | 178.00 | 983 | 260.00 | 395 | 368.00 | 60 |
| 98.00 | 9065 | 179.00 | 9012 | 261.00 | 431 | 370.00 | 238 |
| 99.00 | 8069 | 180.00 | 6814 | 262.00 | 74 | 371.00 | 562 |
| 100.00 | 723 | 181.00 | 3388 | 263.00 | 57 | 372.00 | 3183 |
| 101.00 | 5110 | 182.00 | 662 | 265.00 | 2813 | 373.00 | 699 |
| 102.00 | 269 | 183.00 | 196 | 266.00 | 1201 | 374.00 | 128 |
| 103.00 | 1050 | 184.00 | 688 | 268.00 | 193 | 379.00 | 113 |
| 104.00 | 2777 | 185.00 | 4745 | 270.00 | 354 | 383.00 | 780 |
| 105.00 | 3231 | 186.00 | 38432 | 271.00 | 329 | 384.00 | 328 |
| 107.00 | 38728 | 187.00 | 11326 | 272.00 | 246 | 389.00 | 54 |
| 108.00 | 5678 | 188.00 | 1150 | 273.00 | 5339 | 390.00 | 554 |
| 110.00 | 71432 | 189.00 | 2108 | 274.00 | 12911 | 391.00 | 225 |
| 111.00 | 10978 | 190.00 | 398 | 275.00 | 72896 | 392.00 | 425 |
| 112.00 | 1285 | 191.00 | 568 | 276.00 | 9789 | 393.00 | 51 |
| 113.00 | 391 | 192.00 | 2861 | 277.00 | 5467 | 397.00 | 54 |
| 114.00 | 159 | 193.00 | 3205 | 278.00 | 913 | 400.00 | 58 |
| 115.00 | 154 | 194.00 | 966 | 279.00 | 187 | 401.00 | 212 |
| 116.00 | 646 | 196.00 | 7301 | 283.00 | 853 | 402.00 | 1322 |
| 117.00 | 26016 | 198.00 | 281216 | 284.00 | 485 | 403.00 | 1761 |
| 118.00 | 2232 | 199.00 | 20392 | 285.00 | 1165 | 404.00 | 688 |
| 119.00 | 304 | 200.00 | 1561 | 286.00 | 232 | 405.00 | 61 |
| 120.00 | 587 | 201.00 | 1264 | 288.00 | 98 | 406.00 | 62 |
| 121.00 | 208 | 202.00 | 295 | 289.00 | 261 | 415.00 | 82 |
| 122.00 | 2058 | 203.00 | 1568 | 290.00 | 152 | 421.00 | 1919 |
| 123.00 | 3762 | 204.00 | 9461 | 291.00 | 243 | 422.00 | 1719 |
| 124.00 | 1606 | 205.00 | 15757 | 292.00 | 222 | 423.00 | 12133 |
| 125.00 | 1997 | 206.00 | 71320 | 293.00 | 1758 | 424.00 | 3140 |

Report Date: 07-Aug-2013 06:36:01 Chrom Revision: 2.0 14-Jul-2013 20:56:00
Data File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D\SMSY_8270C.rslt\spectra.d
Injection Date: 06-Aug-2013 08:01:30
Spectrum: Tune Spec: Scans 229-231( 3.80-3.81 ) Bgrd 226( 3.78)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

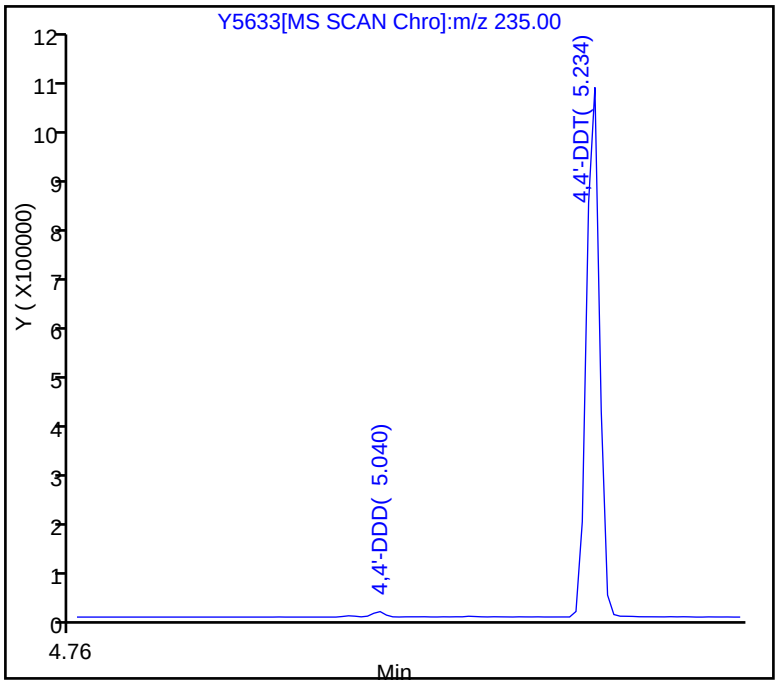
| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 127.00 | 150592 | 207.00 | 9269 | 294.00 | 338 | 425.00 | 387 |
| 128.00 | 10864 | 208.00 | 1633 | 295.00 | 228 | 438.00 | 130 |
| 129.00 | 49496 | 209.00 | 690 | 296.00 | 18592 | 440.00 | 52 |
| 130.00 | 4106 | 210.00 | 853 | 297.00 | 2423 | 441.00 | 33216 |
| 131.00 | 872 | 211.00 | 2981 | 298.00 | 136 | 442.00 | 242368 |
| 132.00 | 621 | 212.00 | 214 | 299.00 | 152 | 443.00 | 46400 |
| 133.00 | 163 | 213.00 | 85 | 301.00 | 262 | 444.00 | 4295 |
| 134.00 | 1345 | 215.00 | 764 | 302.00 | 452 | 445.00 | 328 |
| 135.00 | 3017 | 216.00 | 1200 | 303.00 | 2216 | 504.00 | 58 |
| 136.00 | 1277 | 217.00 | 16760 | 304.00 | 536 | | |

Breakdown Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D | | |
| Injection Date: | 06-Aug-2013 08:01:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

72 4,4'-DDT, Detector: MS SCAN




SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

72 4,4'-DDT, Area = 840871
68 4,4'-DDD, Area = 8388
57 4,4'-DDE, Area = 0

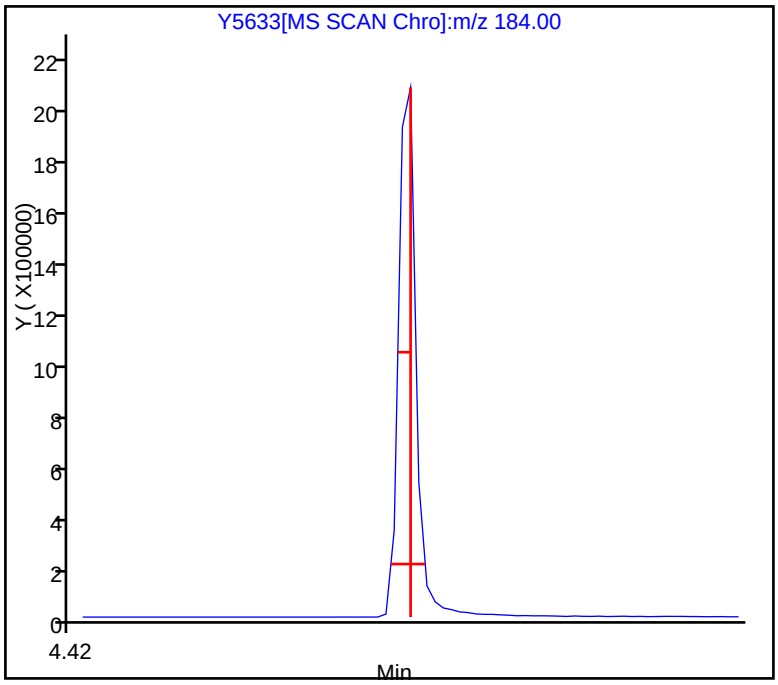
%Breakdown: 0.99%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D | | |
| Injection Date: | 06-Aug-2013 08:01:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

53 Benzidine_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

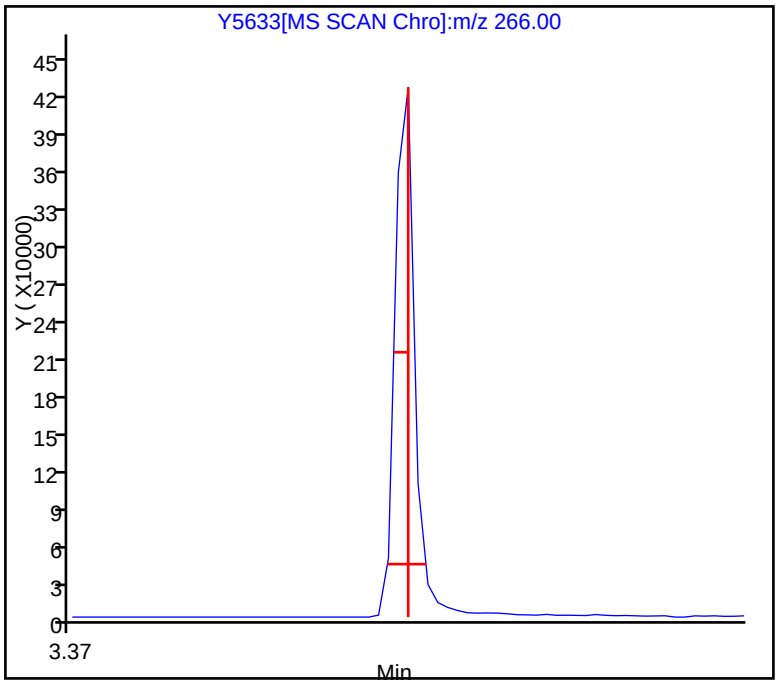
Tailing Factor = 0.7, Max. Tailing < 3.00
Passed
---

Peak Tailing Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5633.D | | |
| Injection Date: | 06-Aug-2013 08:01:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 185961 | Lims Sample ID: | 1 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

36 Pentachlorophenol_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.9, Max. Tailing < 5.00
Passed
---

TestAmerica Denver
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D | | |
| Lims ID: | DFTPP | Client ID: | |
| Inject. Date: | 14-Aug-2013 10:38:30 | Dil. Factor: | 1.0000 |
| Sample Type: | DFTPP | | |
| Sample ID: | DFTPP | | |
| Misc. Info.: | | | |
| Operator: | hoffmanm | Instrument ID: | SMS_Y |
| Injection Vol: | 0.5 ul | ALS Bottle#: | 1 |
| Lims Batch ID: | 187134 | Lims Sample ID: | 3 |
| Detector: | MS SCAN | | |
| Method: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m | | |
| Method Label: | 8270C / 625 | | |
| Last Update: | 15-Aug-2013 10:01:37 | Calib Date: | 06-Aug-2013 10:57:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D | | |
| Limit Group: | MSSV - 8270C_625 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Process Host: | XAWRK032 | | |
| First Level Reviewer: | hoffmanm | Date: | 14-Aug-2013 10:47:13 |

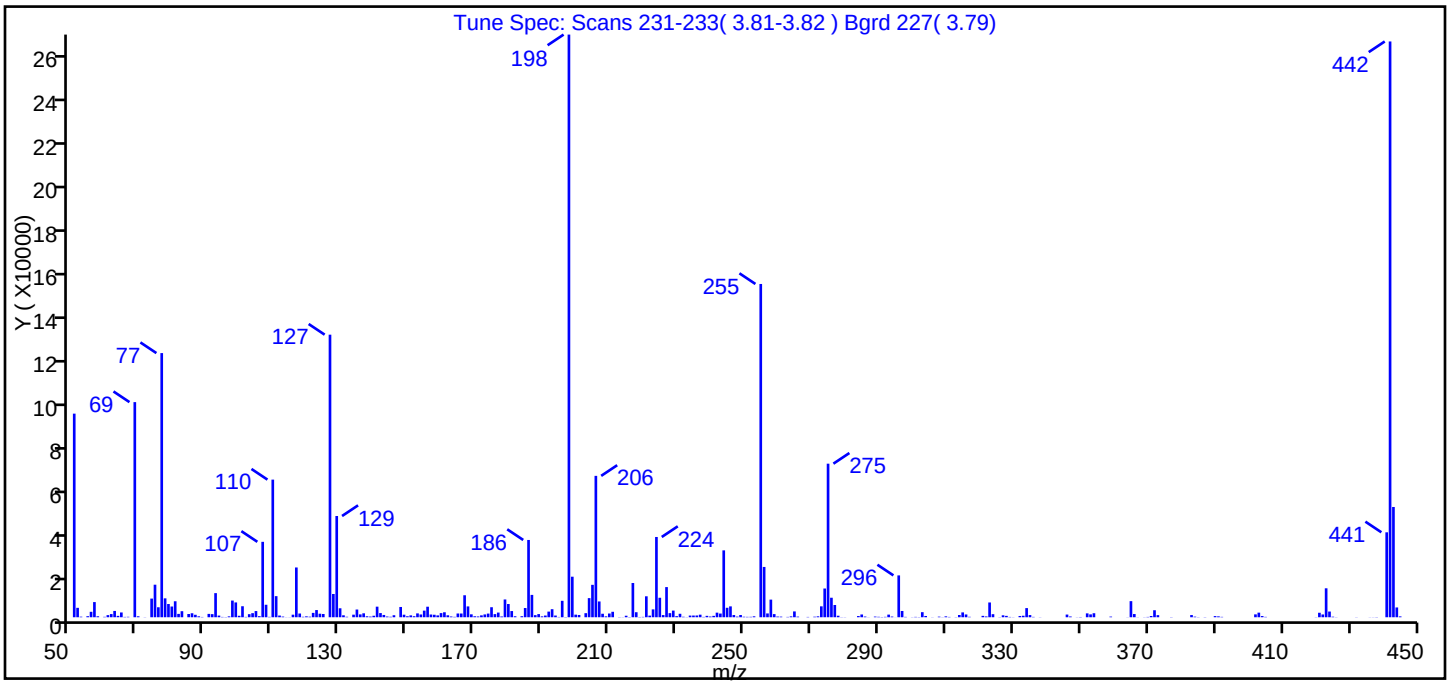
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 36 Pentachlorophenol_T | 266 | 3.569 | 3.579 | -0.008 | 80 | 308493 | 0 | |
| 38 DFTPP | | | | | | | | |
| 53 Benzidine_T | 184 | 4.660 | 4.663 | -0.003 | 96 | 1773367 | 0 | |
| 57 4,4'-DDE | 246 | 4.769 | 4.822 | -0.053 | 37 | 1566 | 0 | |
| 68 4,4'-DDD | 235 | 5.043 | 5.057 | -0.014 | 77 | 10731 | 0 | |
| 72 4,4'-DDT | 235 | 5.238 | 5.239 | -0.001 | 94 | 801754 | 0 | |

MS Tune Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D | | |
| Injection Date: | 14-Aug-2013 10:38:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |
| Tune Method: | DFTPP Method 8270 | | |

38 DFTPP




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 30.00 - 60.00% of mass 198 | 34.94 |
| 68 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 69 | Present | 36.92 |
| 70 | Less than 2.00% of mass 69 | 0.17 ( 0.45) |
| 127 | 40.00 - 60.00% of mass 198 | 48.50 |
| 197 | Less than 1.00% of mass 198 | 0.04 |
| 199 | 5.00 - 9.00% of mass 198 | 6.96 |
| 275 | 10.00 - 30.00% of mass 198 | 26.36 |
| 365 | Greater than 1.00% of mass 198 | 2.76 |
| 441 | Present, but less than mass 443% | 14.58 ( 77.04) |
| 442 | Greater than 40.00% of mass 198 | 98.82 |
| 443 | 17.00 - 23.00% of mass 442 | 18.93 ( 19.15) |

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D\SMSY_8270C.rslt\spectra.d
Injection Date: 14-Aug-2013 10:38:30
Spectrum: Tune Spec: Scans 231-233( 3.81-3.82 ) Bgrd 227( 3.79)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 301

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 51.00 | 91024 | 136.00 | 1284 | 216.00 | 114 | 302.00 | 95 |
| 52.00 | 4213 | 137.00 | 1763 | 217.00 | 15311 | 303.00 | 2270 |
| 53.00 | 259 | 138.00 | 433 | 218.00 | 2247 | 304.00 | 570 |
| 55.00 | 474 | 139.00 | 299 | 219.00 | 126 | 306.00 | 56 |
| 56.00 | 2439 | 140.00 | 672 | 220.00 | 167 | 308.00 | 273 |
| 57.00 | 6784 | 141.00 | 4734 | 221.00 | 9372 | 309.00 | 63 |
| 58.00 | 441 | 142.00 | 1871 | 222.00 | 723 | 310.00 | 404 |
| 60.00 | 192 | 143.00 | 1028 | 223.00 | 3524 | 311.00 | 148 |
| 61.00 | 949 | 144.00 | 329 | 224.00 | 35888 | 313.00 | 81 |
| 62.00 | 1421 | 145.00 | 210 | 225.00 | 8713 | 314.00 | 1008 |
| 63.00 | 2824 | 146.00 | 903 | 226.00 | 977 | 315.00 | 2171 |
| 64.00 | 624 | 148.00 | 4595 | 227.00 | 13484 | 316.00 | 1249 |
| 65.00 | 2142 | 149.00 | 1138 | 228.00 | 1838 | 317.00 | 203 |
| 66.00 | 157 | 150.00 | 449 | 229.00 | 2976 | 321.00 | 621 |
| 67.00 | 207 | 151.00 | 840 | 230.00 | 492 | 322.00 | 362 |
| 69.00 | 96176 | 152.00 | 462 | 231.00 | 1553 | 323.00 | 6608 |
| 70.00 | 430 | 153.00 | 1728 | 232.00 | 219 | 324.00 | 1375 |
| 72.00 | 63 | 154.00 | 1243 | 233.00 | 61 | 326.00 | 81 |
| 74.00 | 8345 | 155.00 | 2964 | 234.00 | 754 | 327.00 | 870 |
| 75.00 | 14554 | 156.00 | 4714 | 235.00 | 770 | 328.00 | 622 |
| 76.00 | 4471 | 157.00 | 1228 | 236.00 | 792 | 329.00 | 146 |
| 77.00 | 118096 | 158.00 | 1118 | 237.00 | 1151 | 330.00 | 60 |
| 78.00 | 8455 | 159.00 | 829 | 238.00 | 152 | 332.00 | 567 |
| 79.00 | 5919 | 160.00 | 1857 | 239.00 | 628 | 333.00 | 677 |
| 80.00 | 4803 | 161.00 | 2230 | 240.00 | 323 | 334.00 | 4092 |
| 81.00 | 7150 | 162.00 | 883 | 241.00 | 625 | 335.00 | 982 |
| 82.00 | 1504 | 163.00 | 344 | 242.00 | 2055 | 336.00 | 164 |
| 83.00 | 2710 | 164.00 | 181 | 243.00 | 1660 | 338.00 | 62 |
| 85.00 | 1453 | 165.00 | 1680 | 244.00 | 29904 | 346.00 | 1205 |
| 86.00 | 1786 | 166.00 | 1675 | 245.00 | 4236 | 347.00 | 346 |
| 87.00 | 1109 | 167.00 | 9833 | 246.00 | 4863 | 349.00 | 55 |
| 88.00 | 419 | 168.00 | 4847 | 247.00 | 992 | 350.00 | 119 |
| 89.00 | 135 | 169.00 | 1308 | 248.00 | 293 | 352.00 | 1736 |

Report Date: 15-Aug-2013 10:01:38 Chrom Revision: 2.0 14-Jul-2013 20:56:00
Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D\SMSY_8270C.rslt\spectra.d
Injection Date: 14-Aug-2013 10:38:30
Spectrum: Tune Spec: Scans 231-233( 3.81-3.82 ) Bgrd 227( 3.79)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 301

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 91.00 | 1506 | 170.00 | 433 | 249.00 | 1006 | 353.00 | 1284 |
| 92.00 | 1391 | 171.00 | 356 | 250.00 | 227 | 354.00 | 1799 |
| 93.00 | 10786 | 172.00 | 848 | 251.00 | 180 | 359.00 | 299 |
| 94.00 | 746 | 173.00 | 1264 | 252.00 | 192 | 364.00 | 50 |
| 95.00 | 148 | 174.00 | 1641 | 253.00 | 418 | 365.00 | 7200 |
| 96.00 | 93 | 175.00 | 4485 | 255.00 | 148992 | 366.00 | 1439 |
| 97.00 | 399 | 176.00 | 1406 | 256.00 | 22488 | 367.00 | 55 |
| 98.00 | 7461 | 177.00 | 2090 | 257.00 | 1708 | 369.00 | 62 |
| 99.00 | 6628 | 178.00 | 345 | 258.00 | 7886 | 370.00 | 151 |
| 100.00 | 658 | 179.00 | 7950 | 259.00 | 1410 | 371.00 | 560 |
| 101.00 | 4922 | 180.00 | 5918 | 260.00 | 318 | 372.00 | 3138 |
| 102.00 | 163 | 181.00 | 2769 | 261.00 | 280 | 373.00 | 941 |
| 103.00 | 1377 | 182.00 | 444 | 263.00 | 156 | 377.00 | 90 |
| 104.00 | 1829 | 184.00 | 469 | 264.00 | 390 | 383.00 | 984 |
| 105.00 | 2770 | 185.00 | 4124 | 265.00 | 2609 | 384.00 | 275 |
| 106.00 | 482 | 186.00 | 34552 | 266.00 | 287 | 385.00 | 79 |
| 107.00 | 33720 | 187.00 | 9995 | 269.00 | 147 | 387.00 | 88 |
| 108.00 | 5588 | 188.00 | 944 | 271.00 | 247 | 390.00 | 521 |
| 109.00 | 176 | 189.00 | 1416 | 272.00 | 414 | 391.00 | 395 |
| 110.00 | 61528 | 190.00 | 396 | 273.00 | 4882 | 392.00 | 177 |
| 111.00 | 9438 | 191.00 | 765 | 274.00 | 12849 | 402.00 | 1290 |
| 112.00 | 764 | 192.00 | 2528 | 275.00 | 68656 | 403.00 | 2059 |
| 113.00 | 310 | 193.00 | 3601 | 276.00 | 8729 | 404.00 | 539 |
| 114.00 | 52 | 194.00 | 764 | 277.00 | 5480 | 405.00 | 172 |
| 115.00 | 59 | 195.00 | 139 | 278.00 | 682 | 420.00 | 66 |
| 116.00 | 1147 | 196.00 | 7351 | 279.00 | 71 | 421.00 | 2013 |
| 117.00 | 22256 | 197.00 | 113 | 280.00 | 61 | 422.00 | 1250 |
| 118.00 | 1672 | 198.00 | 260480 | 284.00 | 538 | 423.00 | 12945 |
| 119.00 | 206 | 199.00 | 18128 | 285.00 | 1241 | 424.00 | 2557 |
| 120.00 | 404 | 200.00 | 1163 | 286.00 | 316 | 425.00 | 254 |
| 121.00 | 252 | 201.00 | 1015 | 287.00 | 52 | 426.00 | 62 |
| 122.00 | 1954 | 203.00 | 1826 | 289.00 | 304 | 432.00 | 64 |
| 123.00 | 3220 | 204.00 | 8550 | 290.00 | 201 | 436.00 | 50 |
| 124.00 | 1585 | 205.00 | 14495 | 291.00 | 111 | 437.00 | 51 |

Report Date: 15-Aug-2013 10:01:38 Chrom Revision: 2.0 14-Jul-2013 20:56:00
Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D\SMSY_8270C.rslt\spectra.d
Injection Date: 14-Aug-2013 10:38:30
Spectrum: Tune Spec: Scans 231-233( 3.81-3.82 ) Bgrd 227( 3.79)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 301

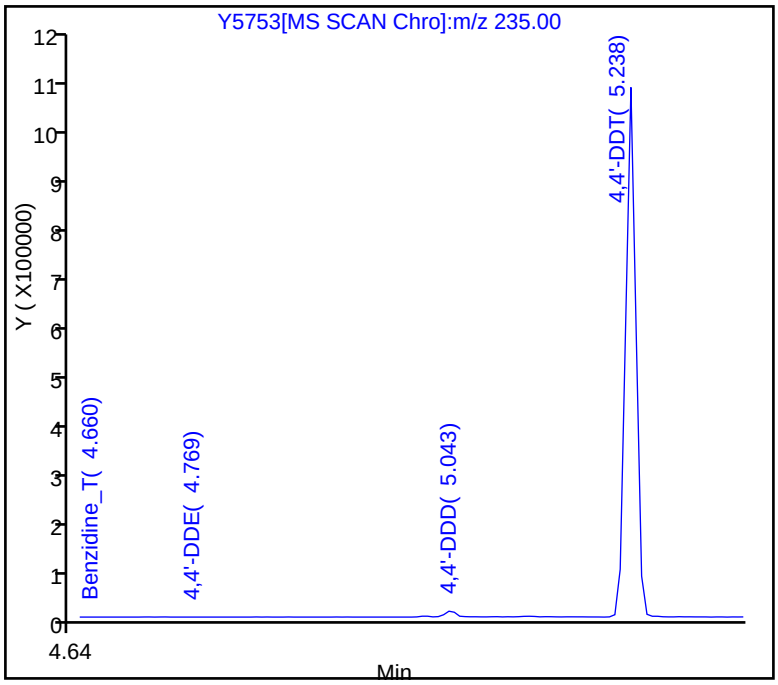
| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 125.00 | 1461 | 206.00 | 63208 | 292.00 | 181 | 438.00 | 93 |
| 127.00 | 126328 | 207.00 | 7063 | 293.00 | 1180 | 441.00 | 37976 |
| 128.00 | 10403 | 208.00 | 1568 | 294.00 | 312 | 442.00 | 257408 |
| 129.00 | 45264 | 209.00 | 400 | 295.00 | 28 | 443.00 | 49296 |
| 130.00 | 4013 | 210.00 | 1674 | 296.00 | 18712 | 444.00 | 4381 |
| 131.00 | 873 | 211.00 | 2444 | 297.00 | 2801 | 445.00 | 385 |
| 132.00 | 218 | 213.00 | 90 | 298.00 | 167 | | |
| 134.00 | 1155 | 214.00 | 56 | 300.00 | 63 | | |
| 135.00 | 3456 | 215.00 | 680 | 301.00 | 167 | | |

Breakdown Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D | | |
| Injection Date: | 14-Aug-2013 10:38:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

72 4,4'-DDT, Detector: MS SCAN




SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

72 4,4'-DDT, Area = 801754
68 4,4'-DDD, Area = 10731
57 4,4'-DDE, Area = 1566

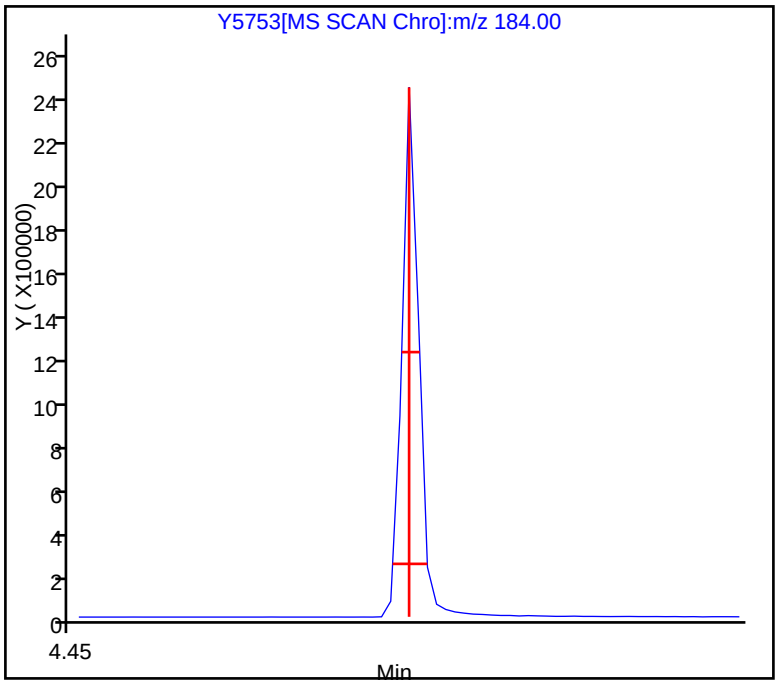
%Breakdown: 1.51%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D | | |
| Injection Date: | 14-Aug-2013 10:38:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 3 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

53 Benzidine_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.010 (min.)

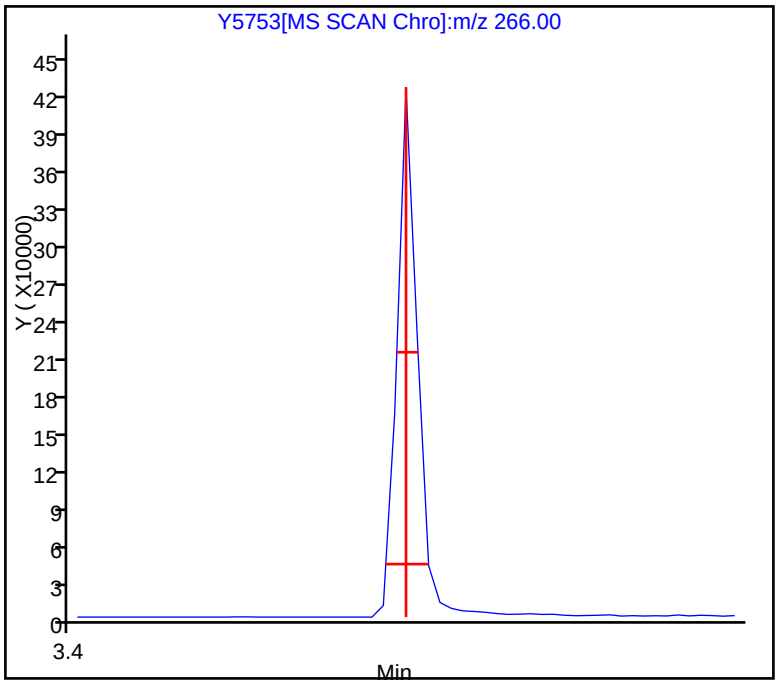
Tailing Factor = 1.1, Max. Tailing < 3.00
Passed
---

Peak Tailing Report

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5753.D
Injection Date: 14-Aug-2013 10:38:30 Limit Group: MSSV - 8270C_625
Client ID: Instrument ID: SMS_Y
Lims Batch ID: 187134 Lims Sample ID: 3
Operator ID: hoffmanm Injection Vol: 0.5 ul
Column Type: VF-5ms Column Dia: 0.50 mm

36 Pentachlorophenol_T, Detector: MS SCAN




Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.1, Max. Tailing < 5.00
Passed
---

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-186667/1-A

Matrix: Solid | Lab File ID: Y5761.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.3(g) | Date Analyzed: 08/14/2013 13:55

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 170 | U | 330 | 170 | 50 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 66 | U | 330 | 66 | 49 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 33 | U | 330 | 33 | 28 |
| 95-50-1 | 1,2-Dichlorobenzene | 33 | U | 330 | 33 | 22 |
| 122-66-7 | 1,2-Diphenylhydrazine | 33 | U | 330 | 33 | 22 |
| 541-73-1 | 1,3-Dichlorobenzene | 33 | U | 330 | 33 | 12 |
| 106-46-7 | 1,4-Dichlorobenzene | 33 | U | 330 | 33 | 13 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 33 | U | 330 | 33 | 23 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 170 | U | 1600 | 170 | 140 |
| 95-95-4 | 2,4,5-Trichlorophenol | 130 | U | 330 | 130 | 9.9 |
| 88-06-2 | 2,4,6-Trichlorophenol | 65 | U | 330 | 65 | 9.9 |
| 120-83-2 | 2,4-Dichlorophenol | 65 | U | 330 | 65 | 9.9 |
| 105-67-9 | 2,4-Dimethylphenol | 130 | U | 330 | 130 | 65 |
| 51-28-5 | 2,4-Dinitrophenol | 660 | U | 1600 | 660 | 330 |
| 121-14-2 | 2,4-Dinitrotoluene | 130 | U | 330 | 130 | 65 |
| 87-65-0 | 2,6-Dichlorophenol | 130 | U | 330 | 130 | 68 |
| 606-20-2 | 2,6-Dinitrotoluene | 65 | U | 330 | 65 | 28 |
| 91-58-7 | 2-Chloronaphthalene | 33 | U | 330 | 33 | 9.9 |
| 95-57-8 | 2-Chlorophenol | 33 | U | 330 | 33 | 21 |
| 91-57-6 | 2-Methylnaphthalene | 33 | U | 330 | 33 | 19 |
| 95-48-7 | 2-Methylphenol | 33 | U | 330 | 33 | 13 |
| 88-74-4 | 2-Nitroaniline | 65 | U | 1600 | 65 | 50 |
| 88-75-5 | 2-Nitrophenol | 65 | U | 330 | 65 | 9.9 |
| 15831-10-4 | 3 & 4 Methylphenol | 65 | U | 330 | 65 | 33 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | U | 1600 | 330 | 89 |
| 99-09-2 | 3-Nitroaniline | 130 | U | 1600 | 130 | 72 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 650 | U | 1600 | 650 | 330 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 33 | U | 330 | 33 | 19 |
| 59-50-7 | 4-Chloro-3-methylphenol | 130 | U | 330 | 130 | 65 |
| 106-47-8 | 4-Chloroaniline | 130 | U | 330 | 130 | 81 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 65 | U | 330 | 65 | 21 |
| 100-01-6 | 4-Nitroaniline | 130 | U | 1600 | 130 | 72 |
| 100-02-7 | 4-Nitrophenol | 330 | U | 1600 | 330 | 96 |
| 83-32-9 | Acenaphthene | 17 | U | 330 | 17 | 10 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-186667/1-A

Matrix: Solid | Lab File ID: Y5761.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.3(g) | Date Analyzed: 08/14/2013 13:55

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 33 | U | 330 | 33 | 17 |
| 98-86-2 | Acetophenone | 33 | U | 330 | 33 | 20 |
| 120-12-7 | Anthracene | 33 | U | 330 | 33 | 17 |
| 1912-24-9 | Atrazine | 130 | U | 330 | 130 | 37 |
| 100-52-7 | Benzaldehyde | 66 | U | 330 | 66 | 39 |
| 92-87-5 | Benzidine | 3900 | U | 4000 | 3900 | 980 |
| 56-55-3 | Benzo[a]anthracene | 33 | U | 330 | 33 | 20 |
| 50-32-8 | Benzo[a]pyrene | 33 | U | 330 | 33 | 20 |
| 205-99-2 | Benzo[b]fluoranthene | 33 | U | 330 | 33 | 26 |
| 191-24-2 | Benzo[g,h,i]perylene | 33 | U | 330 | 33 | 16 |
| 207-08-9 | Benzo[k]fluoranthene | 65 | U | 330 | 65 | 40 |
| 65-85-0 | Benzoic acid | 650 | U | 1600 | 650 | 330 |
| 100-51-6 | Benzyl alcohol | 33 | U | 330 | 33 | 9.9 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 65 | U | 330 | 65 | 23 |
| 111-44-4 | Bis(2-chloroethyl)ether | 33 | U | 330 | 33 | 16 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 65 | U | 330 | 65 | 46 |
| 85-68-7 | Butyl benzyl phthalate | 65 | U | 330 | 65 | 43 |
| 105-60-2 | Caprolactam | 330 | U | 1600 | 330 | 100 |
| 86-74-8 | Carbazole | 66 | U | 330 | 66 | 36 |
| 218-01-9 | Chrysene | 33 | U | 330 | 33 | 27 |
| 53-70-3 | Dibenz(a,h)anthracene | 33 | U | 330 | 33 | 19 |
| 132-64-9 | Dibenzofuran | 33 | U | 330 | 33 | 20 |
| 84-66-2 | Diethyl phthalate | 33 | U | 650 | 33 | 26 |
| 131-11-3 | Dimethyl phthalate | 127 | J | 330 | 33 | 23 |
| 84-74-2 | Di-n-butyl phthalate | 33 | U | 330 | 33 | 29 |
| 117-84-0 | Di-n-octyl phthalate | 65 | U | 330 | 65 | 14 |
| 206-44-0 | Fluoranthene | 65 | U | 330 | 65 | 36 |
| 86-73-7 | Fluorene | 33 | U | 330 | 33 | 18 |
| 118-74-1 | Hexachlorobenzene | 65 | U | 330 | 65 | 29 |
| 87-68-3 | Hexachlorobutadiene | 65 | U | 330 | 65 | 9.9 |
| 77-47-4 | Hexachlorocyclopentadiene | 65 | U | 1700 | 65 | 50 |
| 67-72-1 | Hexachloroethane | 33 | U | 330 | 33 | 21 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 33 | U | 330 | 33 | 22 |
| 78-59-1 | Isophorone | 33 | U | 330 | 33 | 17 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-186667/1-A

Matrix: Solid | Lab File ID: Y5761.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.3(g) | Date Analyzed: 08/14/2013 13:55

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 65 | U | 330 | 65 | 31 |
| 98-95-3 | Nitrobenzene | 33 | U | 330 | 33 | 22 |
| 62-75-9 | N-Nitrosodimethylamine | 65 | U | 510 | 65 | 37 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 65 | U | 330 | 65 | 31 |
| 86-30-6 | N-Nitrosodiphenylamine | 33 | U | 330 | 33 | 21 |
| 930-55-2 | N-Nitrosopyrrolidine | 130 | U | 330 | 130 | 63 |
| 87-86-5 | Pentachlorophenol | 660 | U | 1600 | 660 | 330 |
| 85-01-8 | Phenanthrene | 33 | U | 330 | 33 | 17 |
| 108-95-2 | Phenol | 33 | U | 330 | 33 | 18 |
| 129-00-0 | Pyrene | 33 | U | 400 | 33 | 12 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 81 | | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 84 | | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 85 | | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 84 | | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 86 | | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 94 | | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5761.D
Lims ID: MB 280-186667/1-A
Client ID:
Inject. Date: 14-Aug-2013 13:55:30
Dil. Factor: 1.0000
Sample Type: MB
Sample ID: mb280-186667_1-a
Misc. Info.: 186667 =186667
Operator: hoffmanm
Instrument ID: SMS_Y
Injection Vol: 0.5 ul
ALS Bottle#: 9
Lims Batch ID: 187134
Lims Sample ID: 11
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41
Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE
ID Type: Deconvolution ID
Column Type: VF-5ms
Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm
Date: 15-Aug-2013 09:35:20

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.152 | 4.149 | 0.003 | 96 | 315079 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.192 | 5.189 | 0.003 | 99 | 1210986 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.661 | 6.658 | 0.003 | 90 | 718925 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.912 | 7.909 | 0.003 | 96 | 1232433 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.291 | 11.288 | 0.003 | 84 | 1368260 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.057 | 15.060 | -0.003 | 94 | 1306229 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.124 | 3.127 | 0.001 | 89 | 974297 | 84.9 | |
| $ 8 Phenol-d5 | 99 | 3.840 | 3.839 | 0.006 | 81 | 1214669 | 86.1 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.598 | 4.609 | -0.006 | 88 | 1004164 | 83.7 | |
| $ 10 2,4,6-Trichlorophenol-d2 | 198 | | 6.000 | | | | | |
| $ 11 2-Fluorobiphenyl | 172 | 6.073 | 6.072 | 0.001 | 99 | 1950170 | 84.2 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.325 | 7.324 | 0.001 | 91 | 403208 | 80.7 | |
| $ 13 Terphenyl-d14 | 244 | 9.463 | 9.457 | 0.006 | 98 | 2584127 | 93.6 | |
| T 14 Tetrachlorodibenzofurans TIC | 1 | | 0.000 | | | | | 1 |
| T 15 Tetrachlorodibenzo-p-dioxin TIC | 1 | | 0.000 | | | | | 1 |
| T 16 Hexachlorodibenzo-p-dioxin TIC | 1 | | 0.000 | | | | | 1 |
| T 17 Hexachlorodibenzofurans TIC | 1 | | 0.000 | | | | | 1 |
| T 18 Octadecane (TIC) | 1 | | 0.000 | | | | | 1 |
| T 19 Pentachlorodibenzofurans TIC | 1 | | 0.000 | | | | | 1 |
| T 20 2,6-Dimethylphenol | 1 | | 0.000 | | | | | 1 |
| 21 1,2,3,4-Tetrahydronaphthalene | 1 | | 0.000 | | | | | |
| 22 2-Phenoxyethanol | 1 | | 0.000 | | | | | |
| T 23 Pentachlorodibenzo-p-dioxin TIC | 1 | | 0.000 | | | | | 1 |
| 24 2-Butoxyethanol | 1 | | 0.000 | | | | | |
| 25 Triethyl amine | 86 | | 1.734 | | | | | |
| 26 2-Ethoxyethanol | 59 | | 1.904 | | | | | 9 |
| 27 1,4-Dioxane | 88 | | 1.871 | | | | | |
| 28 N-Nitrosodimethylamine | 74 | | 2.106 | | | | | |
| 29 Pyridine | 79 | | 2.148 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 30 Dimethylformamide | 73 | | 2.439 | | | | | 9 |
| 31 2-Picoline | 93 | | 2.686 | | | | | |
| 32 N-Nitrosomethylethylamine | 88 | | 2.768 | | | | | 9 |
| 33 Acrylamide | 71 | | 2.974 | | | | | 9 |
| 34 Methyl methanesulfonate | 80 | | 2.997 | | | | | |
| 35 N-Nitrosodiethylamine | 102 | | 3.303 | | | | | |
| 36 Pentachlorophenol_T | 266 | | 3.577 | | | | | |
| 37 Ethyl methanesulfonate | 79 | | 3.526 | | | | | |
| 39 Benzaldehyde | 106 | | 3.811 | | | | | |
| 40 Phenol | 94 | | 3.846 | | | | | |
| 41 Methyl styrene | 118 | | 4.360 | | | | | |
| 42 Phenylmercaptan | 110 | | 3.849 | | | | | |
| 43 Aniline | 93 | | 3.893 | | | | | |
| 44 Alpha Methyl Styrene | 118 | | 3.916 | | | | | |
| 45 Bis(2-chloroethyl)ether | 93 | | 3.922 | | | | | |
| 46 Pentachloroethane | 117 | | 3.926 | | | | | |
| 47 n-Decane | 43 | | 3.969 | | | | | 9 |
| 48 2-Chlorophenol | 128 | | 3.987 | | | | | |
| 49 1,3-Dichlorobenzene | 146 | | 4.104 | | | | | |
| 50 1,4-Dichlorobenzene | 146 | | 4.163 | | | | | |
| 51 Benzyl alcohol | 108 | | 4.251 | | | | | 9 |
| 52 1,2-Dichlorobenzene | 146 | | 4.292 | | | | | |
| 53 Benzidine_T | 184 | | 4.663 | | | | | |
| 54 2-Methylphenol | 108 | | 4.327 | | | | | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | | 4.339 | | | | | |
| 56 Indene | 116 | | 4.357 | | | | | |
| 57 4,4'-DDE | 246 | | 4.822 | | | | | |
| 58 3-Methylphenol | 108 | | 4.451 | | | | | |
| 59 4-Methylphenol | 108 | | 4.451 | | | | | |
| 60 3 & 4 Methylphenol | 108 | | 4.451 | | | | | |
| 61 N-Nitrosodi-n-propylamine | 70 | | 4.451 | | | | | |
| 62 N-Nitrosopyrrolidine | 100 | | 4.460 | | | | | |
| 63 Acetophenone | 105 | | 4.468 | | | | | |
| 64 N-Nitrosomorpholine | 116 | | 4.484 | | | | | |
| 65 2-Toluidine | 106 | | 4.496 | | | | | |
| 66 Hexachloroethane | 117 | | 4.562 | | | | | |
| 67 Nitrobenzene | 77 | | 4.615 | | | | | 9 |
| 68 4,4'-DDD | 235 | | 5.057 | | | | | |
| 69 Triethyl phosphate | 99 | | 4.678 | | | | | 9 |
| 70 N-Nitrosopiperidine | 114 | | 4.736 | | | | | 9 |
| 71 Isophorone | 82 | | 4.797 | | | | | 9 |
| 72 4,4'-DDT | 235 | | 5.239 | | | | | |
| 73 2,4-Dimethylphenol | 107 | | 4.880 | | | | | |
| 74 2-Nitrophenol | 139 | | 4.874 | | | | | |
| 75 Benzyl dichloride | 125 | | 4.901 | | | | | |
| 76 o,o',o''-Triethylphosphorothioat | 198 | | 4.913 | | | | | |
| 77 Benzoic acid | 105 | | 4.974 | | | | | 9 |
| 78 Bis(2-chloroethoxy)methane | 93 | | 4.956 | | | | | |
| 79 3,5-Dimethylphenol | 107 | | 4.991 | | | | | |
| 80 2,4-Xylidine | 121 | | 5.078 | | | | | |
| 81 alpha,alpha-Dimethyl phenethylam | 58 | | 5.036 | | | | | 9 |
| 82 2,4-Dichlorophenol | 162 | | 5.068 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 83 o-Anisidine | 80 | | 5.114 | | | | | 9 |
| 84 1,2,4-Trichlorobenzene | 180 | | 5.138 | | | | | |
| 85 Alpha-Terpineol | 59 | | 5.183 | | | | | 9 |
| 86 4-chlorobenzenethiol | 144 | 6.073 | 5.953 | 0.127 | 40 | 44727 | 0 | |
| 87 Naphthalene | 128 | | 5.209 | | | | | |
| 88 4-Chloroaniline | 127 | | 5.250 | | | | | |
| 89 2,6-Dichlorophenol | 162 | | 5.254 | | | | | |
| 90 Hexachloropropene | 213 | | 5.271 | | | | | |
| 91 Hexachlorobutadiene | 225 | | 5.285 | | | | | |
| 92 Quinoline | 129 | | 5.488 | | | | | |
| 93 N-Nitrosodi-n-butylamine | 84 | | 5.489 | | | | | |
| 94 Caprolactam | 55 | | 5.538 | | | | | 9 |
| 95 p-Phenylene diamine | 108 | | 5.541 | | | | | |
| 96 5-Methyl-o-Anisidine | 122 | | 5.625 | | | | | |
| 97 4-Chloro-3-methylphenol | 107 | | 5.632 | | | | | |
| 98 Safrole, Total | 162 | | 5.682 | | | | | |
| 99 Carbofuran phenol | 164 | | 5.700 | | | | | |
| 100 1,3-phenylenediamine | 108 | | 5.748 | | | | | |
| 101 2-Methylnaphthalene | 142 | | 5.773 | | | | | |
| 102 Phthalic anhydride | 76 | | 5.829 | | | | | 9 |
| 103 1-Methylnaphthalene | 142 | | 5.861 | | | | | |
| 104 Methyl 4-chlorophenyl sulfide | 158 | | 6.753 | | | | | 9 |
| 105 Hexachlorocyclopentadiene | 237 | | 5.896 | | | | | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | | 5.914 | | | | | |
| 107 Isosafrole Peak 1 | 162 | | 5.929 | | | | | |
| 108 2,4,6-Trichlorophenol | 196 | | 6.008 | | | | | |
| 109 2,3-Dichlorobenzenamine | 161 | | 6.020 | | | | | |
| 110 2,4,5-Trichlorophenol | 196 | | 6.043 | | | | | |
| 111 Isosafrole Peak 2 | 104 | | 6.117 | | | | | |
| 112 1,1'-Biphenyl | 154 | | 6.161 | | | | | |
| 113 Toluene diamine (2,4- + 2,6- iso | 122 | | 6.164 | | | | | |
| 114 2-Chloronaphthalene | 162 | | 6.190 | | | | | |
| 115 1-Chloronaphthalene | 162 | | 6.211 | | | | | |
| 116 2-Nitroaniline | 65 | | 6.278 | | | | | 9 |
| 117 1,4-Naphthoquinone | 158 | | 6.340 | | | | | |
| 118 1,4-Dinitrobenzene | 168 | | 6.387 | | | | | |
| 119 Dimethyl phthalate | 163 | 6.396 | 6.396 | 0.0 | 97 | 84034 | 3.85 | |
| 120 1,3-Dinitrobenzene | 168 | | 6.454 | | | | | |
| 121 2,6-Dinitrotoluene | 165 | | 6.466 | | | | | 9 |
| 122 Acenaphthylene | 152 | | 6.542 | | | | | |
| 123 3-Nitroaniline | 138 | | 6.625 | | | | | |
| 124 Acenaphthene | 153 | | 6.683 | | | | | |
| 125 1,3-Dimethyl-2,4-Dinitrobenzene | 77 | | 7.686 | | | | | |
| 126 2,4-Dinitrophenol | 184 | | 6.707 | | | | | |
| 127 4-Nitrophenol | 109 | | 6.760 | | | | | 9 |
| 128 1,3-Dimethyl-2,5-Dinitrobenzene | 179 | | 7.791 | | | | | 9 |
| 129 Pentachlorobenzene | 250 | | 6.793 | | | | | |
| 130 2,4-Dinitrotoluene | 165 | | 6.807 | | | | | |
| 131 n-hydroxymethylphthalimide | 147 | | 7.846 | | | | | 9 |
| 132 Dibenzofuran | 168 | | 6.824 | | | | | |
| 133 1-Naphthylamine | 143 | | 6.899 | | | | | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | | 6.924 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 135 1,4-Dimethyl-2,6-Dinitrobenzene | 179 | | 7.968 | | | | | 9 |
| 136 Hexadecane | 57 | | 6.948 | | | | | 9 |
| 137 2-Naphthylamine | 143 | | 6.963 | | | | | |
| 138 1,4-Dimethyl-2,3-Dinitrobenzene | 77 | | 8.003 | | | | | 9 |
| 139 Diethyl phthalate | 149 | | 6.977 | | | | | |
| 140 1,2-Dimethyl-3,6-Dinitrobenzene | 179 | | 8.073 | | | | | 9 |
| 141 Thionazin | 97 | | 7.046 | | | | | |
| 142 4-Chlorophenyl phenyl ether | 204 | | 7.095 | | | | | |
| 143 Fluorene | 166 | | 7.112 | | | | | |
| 144 Tributyl phosphate | 99 | | 7.116 | | | | | |
| 145 N-Nitro-o-toluidine | 152 | | 7.128 | | | | | |
| 146 4-Nitroaniline | 138 | | 7.148 | | | | | |
| 147 4,6-Dinitro-2-methylphenol | 198 | | 7.153 | | | | | |
| 148 1,5-Dimethyl-2,4-Dinitrobenzene | 179 | | 8.209 | | | | | |
| 149 Diphenylamine | 169 | | 7.198 | | | | | |
| 150 N-Nitrosodiphenylamine | 169 | | 7.200 | | | | | |
| 151 1,2-Diphenylhydrazine | 77 | | 7.230 | | | | | 9 |
| 152 Azobenzene | 77 | | 7.230 | | | | | 9 |
| 153 1,5-Dimethyl-2,3-Dinitrobenzene | 179 | | 8.303 | | | | | |
| 154 Sulfotepp | 97 | | 7.281 | | | | | |
| 155 2,4,6 - Tribromophenol | 330 | | 7.324 | | | | | |
| 156 1,2-Dimethyl-3,5-Dinitrobenzene | 179 | | 8.402 | | | | | |
| 157 Phenyl sulfide | 186 | | 8.475 | | | | | |
| 158 Diallate Peak 1 | 86 | | 7.410 | | | | | |
| 159 1,3,5-Trinitrobenzene | 213 | | 7.427 | | | | | |
| 160 Phorate | 121 | | 7.427 | | | | | |
| 161 Phenacetin | 108 | | 7.445 | | | | | |
| 162 1,2-Dimethyl-3,4-Dinitrobenzene | 179 | | 8.538 | | | | | |
| 163 Diallate Peak 2 | 86 | | 7.492 | | | | | 9 |
| 164 4-Bromophenyl phenyl ether | 248 | | 7.506 | | | | | |
| 165 Hexachlorobenzene | 284 | | 7.577 | | | | | |
| 166 Dimethoate | 87 | | 7.592 | | | | | |
| 167 Atrazine | 200 | | 7.624 | | | | | |
| 168 1,2-Dimethyl-4,5-Dinitrobenzene | 91 | | 8.755 | | | | | 9 |
| 169 n-Octadecane | 85 | | 7.712 | | | | | 9 |
| 170 4-Aminobiphenyl | 169 | | 7.739 | | | | | 9 |
| 171 Pentachlorophenol | 266 | | 7.747 | | | | | |
| 172 Pronamide | 173 | | 7.751 | | | | | |
| 173 Pentachloronitrobenzene | 237 | | 7.751 | | | | | |
| 174 Disulfoton | 88 | | 7.862 | | | | | 9 |
| 175 Dinoseb | 211 | | 7.868 | | | | | |
| 176 Phenanthrene | 178 | | 7.929 | | | | | |
| 177 Anthracene | 178 | | 7.976 | | | | | |
| 178 Carbazole | 167 | | 8.111 | | | | | |
| 179 Alachlor | 188 | | 8.176 | | | | | |
| 180 Methyl parathion | 109 | | 8.191 | | | | | |
| 181 Di-n-butyl phthalate | 149 | | 8.329 | | | | | 9 |
| 182 Phenyl disulfide | 109 | | 9.515 | | | | | 9 |
| 183 Ethyl Parathion | 109 | | 8.514 | | | | | |
| 184 4-Nitroquinoline-1-oxide | 190 | | 8.614 | | | | | |
| 185 Methapyrilene | 97 | | 8.620 | | | | | |
| 186 Diphenylsulfone | 125 | | 9.844 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 187 Isodrin | 193 | | 8.855 | | | | | |
| 188 Fluoranthene | 202 | | 9.034 | | | | | |
| 189 Benzidine | 184 | | 9.175 | | | | | |
| 190 Octachlorostyrene | 308 | | 10.220 | | | | | |
| 191 Pyrene | 202 | | 9.310 | | | | | |
| 192 Aramite Peak 1 | 185 | | 9.378 | | | | | 9 |
| 193 Aramite Peak 2 | 185 | | 9.478 | | | | | 9 |
| 194 p-Dimethylamino azobenzene | 120 | | 9.648 | | | | | |
| 195 Chlorobenzilate | 251 | | 9.690 | | | | | |
| 196 4,4-Dichlorobenzil | 139 | | 10.602 | | | | | |
| 197 Famphur | 218 | | 10.079 | | | | | |
| 198 Butyl benzyl phthalate | 149 | | 10.150 | | | | | |
| 199 3,3'-Dimethylbenzidine | 212 | | 10.189 | | | | | |
| 200 Bis(4-chlorophenyl)disulfide | 143 | | 10.831 | | | | | |
| 201 p-chlorophenyl sulfone | 159 | | 10.896 | | | | | |
| 202 2-Acetylaminofluorene | 181 | | 10.641 | | | | | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | | 11.213 | | | | | 9 |
| 204 4,4'-Methylene bis(2-chloroanili | 231 | | 11.223 | | | | | |
| 205 3,3'-Dichlorobenzidine | 252 | | 11.225 | | | | | |
| 206 Benzo[a]anthracene | 228 | | 11.260 | | | | | 9 |
| 207 Chrysene | 228 | | 11.343 | | | | | 9 |
| 208 6-Methylchrysene | 242 | | 12.386 | | | | | |
| 209 Di-n-octyl phthalate | 149 | | 12.853 | | | | | |
| 210 7,12-Dimethylbenz(a)anthracene | 256 | | 13.926 | | | | | |
| 211 Benzo[b]fluoranthene | 252 | | 13.934 | | | | | |
| 212 Benzo[k]fluoranthene | 252 | | 14.010 | | | | | |
| 213 Hexachlorophene | 196 | | 14.599 | | | | | |
| 214 Benzo[e]pyrene | 252 | | 14.733 | | | | | |
| 215 Benzo[a]pyrene | 252 | | 14.880 | | | | | 9 |
| 216 Perylene | 252 | | 15.124 | | | | | 9 |
| 217 3-Methylcholanthrene | 268 | | 15.947 | | | | | |
| 218 Tris(2,3-dibromopropyl)phosphate | 119 | | 16.587 | | | | | |
| 219 Dibenz[a,h]acridine | 279 | | 17.662 | | | | | |
| 220 Dibenz[a,j]acridine | 279 | | 17.827 | | | | | |
| 221 Dibenz(a,h)anthracene | 278 | | 18.434 | | | | | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | | 18.346 | | | | | |
| 223 Benzo[g,h,i]perylene | 276 | | 19.134 | | | | | |
| 224 Dibenzo[a,e]pyrene | 302 | | 21.981 | | | | | |
| S 225 Methyl Phenols,Total | 108 | | 15.496 | | | | | 7 |
| S 226 Total Cresols | 108 | | 15.496 | | | | | 7 |
| S 227 Aramite, Total | 185 | | 15.496 | | | | | 7 |
| S 228 Diallate | 86 | | 15.496 | | | | | 7 |
| S 229 Isosafrole | 162 | | 15.496 | | | | | 7 |
| S 230 Phthalic acid | 148 | | 19.689 | | | | | 7 |

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

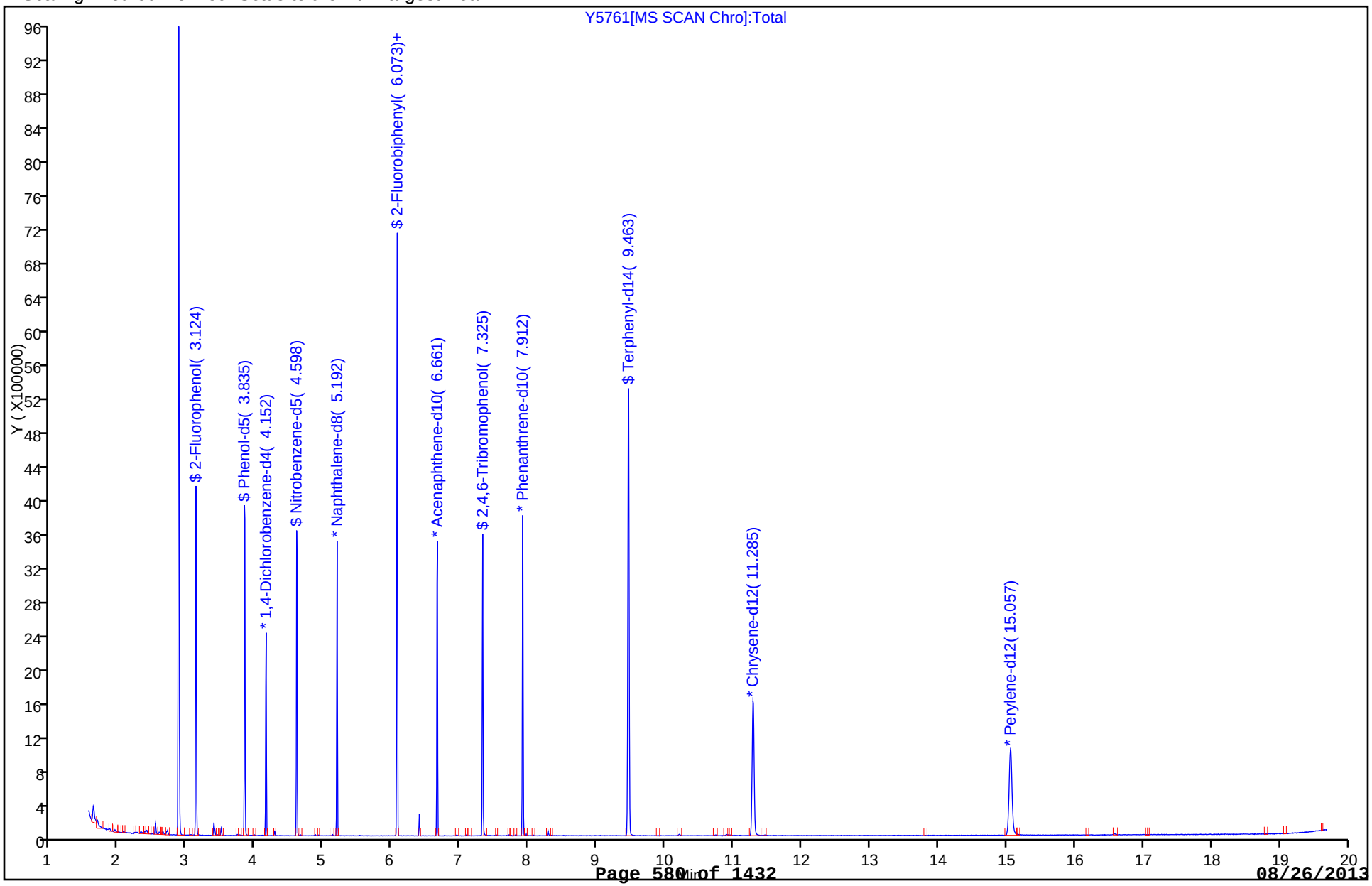
Report Date: 15-Aug-2013 10:01:44 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5761.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 13:55:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 11 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



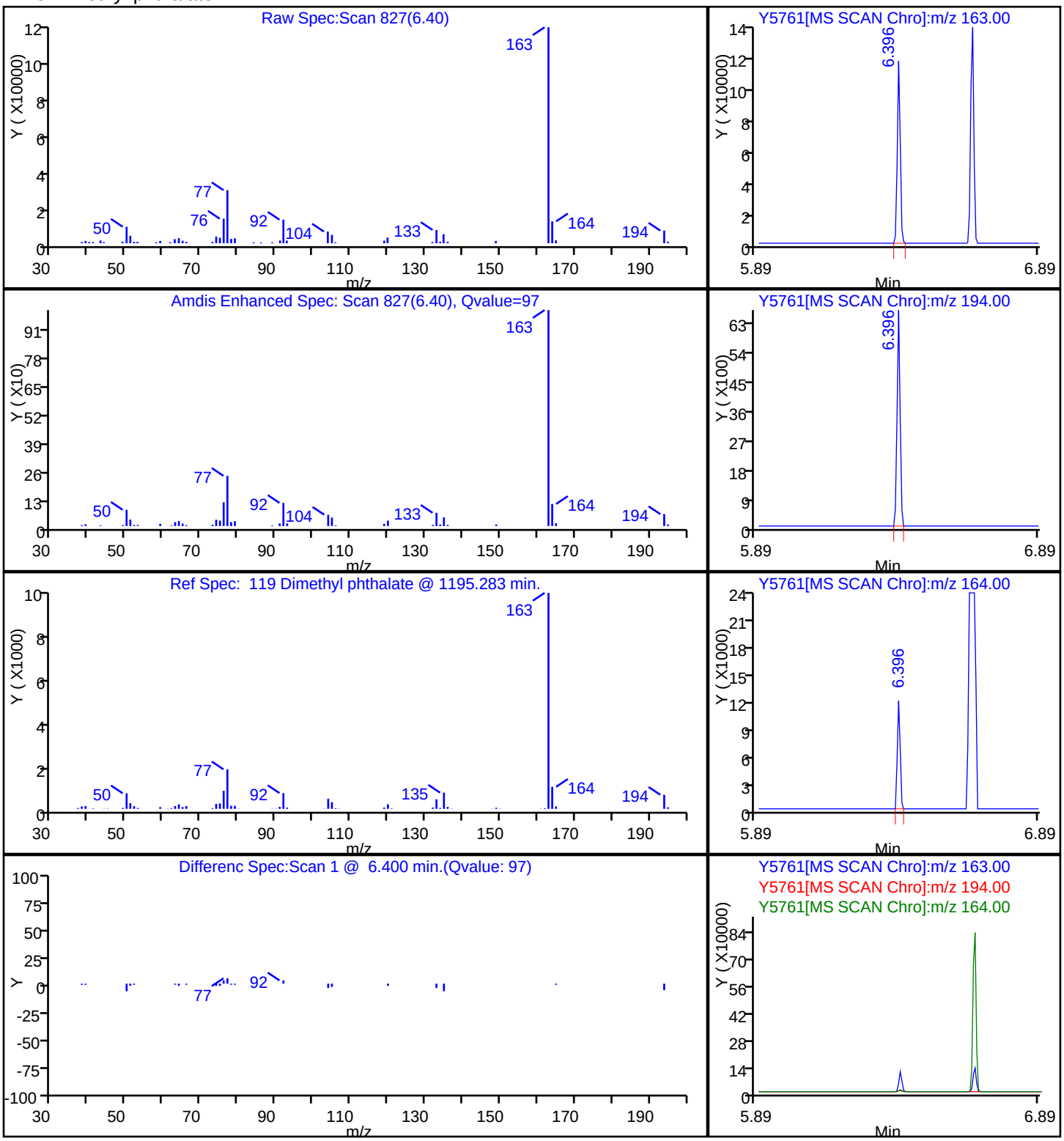
Report Date: 15-Aug-2013 10:01:44 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5761.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 13:55:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 11 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

119 Dimethyl phthalate



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-186667/2-A

Matrix: Solid | Lab File ID: Y5762.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.7(g) | Date Analyzed: 08/14/2013 14:22

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 2290 | | 320 | 160 | 49 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2150 | | 320 | 65 | 48 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2080 | | 320 | 32 | 27 |
| 95-50-1 | 1,2-Dichlorobenzene | 2080 | | 320 | 32 | 21 |
| 122-66-7 | 1,2-Diphenylhydrazine | 2370 | | 320 | 32 | 21 |
| 541-73-1 | 1,3-Dichlorobenzene | 2030 | | 320 | 32 | 12 |
| 106-46-7 | 1,4-Dichlorobenzene | 2060 | | 320 | 32 | 13 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane ] | 2030 | | 320 | 32 | 22 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2420 | | 1600 | 160 | 130 |
| 95-95-4 | 2,4,5-Trichlorophenol | 2400 | | 320 | 130 | 9.8 |
| 88-06-2 | 2,4,6-Trichlorophenol | 2430 | | 320 | 64 | 9.8 |
| 120-83-2 | 2,4-Dichlorophenol | 2280 | | 320 | 64 | 9.8 |
| 105-67-9 | 2,4-Dimethylphenol | 2270 | | 320 | 130 | 64 |
| 51-28-5 | 2,4-Dinitrophenol | 4470 | | 1600 | 650 | 330 |
| 121-14-2 | 2,4-Dinitrotoluene | 2490 | | 320 | 130 | 64 |
| 606-20-2 | 2,6-Dinitrotoluene | 2420 | | 320 | 64 | 27 |
| 91-58-7 | 2-Chloronaphthalene | 2220 | | 320 | 32 | 9.8 |
| 95-57-8 | 2-Chlorophenol | 2170 | | 320 | 32 | 21 |
| 91-57-6 | 2-Methylnaphthalene | 2240 | | 320 | 32 | 19 |
| 95-48-7 | 2-Methylphenol | 2220 | | 320 | 32 | 13 |
| 88-74-4 | 2-Nitroaniline | 2390 | | 1600 | 64 | 49 |
| 88-75-5 | 2-Nitrophenol | 2240 | | 320 | 64 | 9.8 |
| 15831-10-4 | 3 & 4 Methylphenol | 2310 | | 320 | 64 | 32 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1360 | J | 1600 | 320 | 88 |
| 99-09-2 | 3-Nitroaniline | 1460 | J | 1600 | 130 | 71 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 4510 | | 1600 | 640 | 320 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2330 | | 320 | 32 | 19 |
| 59-50-7 | 4-Chloro-3-methylphenol | 2400 | | 320 | 130 | 64 |
| 106-47-8 | 4-Chloroaniline | 1230 | | 320 | 130 | 80 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2340 | | 320 | 64 | 21 |
| 100-01-6 | 4-Nitroaniline | 2250 | | 1600 | 130 | 71 |
| 100-02-7 | 4-Nitrophenol | 4800 | | 1600 | 320 | 95 |
| 83-32-9 | Acenaphthene | 2310 | | 320 | 17 | 10 |
| 208-96-8 | Acenaphthylene | 2290 | | 320 | 32 | 17 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-186667/2-A

Matrix: Solid | Lab File ID: Y5762.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.7(g) | Date Analyzed: 08/14/2013 14:22

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 98-86-2 | Acetophenone | 2170 | | 320 | 32 | 20 |
| 120-12-7 | Anthracene | 2370 | | 320 | 32 | 17 |
| 1912-24-9 | Atrazine | 2680 | | 320 | 130 | 36 |
| 92-87-5 | Benzidine | 3900 | U | 3900 | 3900 | 970 |
| 56-55-3 | Benzo[a]anthracene | 2410 | | 320 | 32 | 20 |
| 50-32-8 | Benzo[a]pyrene | 2390 | | 320 | 32 | 20 |
| 205-99-2 | Benzo[b]fluoranthene | 2590 | | 320 | 32 | 26 |
| 191-24-2 | Benzo[g,h,i]perylene | 2450 | | 320 | 32 | 16 |
| 207-08-9 | Benzo[k]fluoranthene | 2510 | | 320 | 64 | 39 |
| 65-85-0 | Benzoic acid | 2430 | | 1600 | 640 | 320 |
| 100-51-6 | Benzyl alcohol | 2240 | | 320 | 32 | 9.8 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2170 | | 320 | 64 | 22 |
| 111-44-4 | Bis(2-chloroethyl)ether | 2260 | | 320 | 32 | 16 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2740 | | 320 | 64 | 45 |
| 85-68-7 | Butyl benzyl phthalate | 2570 | | 320 | 64 | 42 |
| 105-60-2 | Caprolactam | 2300 | M | 1600 | 320 | 100 |
| 86-74-8 | Carbazole | 2420 | | 320 | 65 | 35 |
| 218-01-9 | Chrysene | 2390 | | 320 | 32 | 26 |
| 53-70-3 | Dibenz(a,h)anthracene | 2620 | | 320 | 32 | 19 |
| 132-64-9 | Dibenzofuran | 2340 | | 320 | 32 | 20 |
| 84-66-2 | Diethyl phthalate | 2390 | | 640 | 32 | 25 |
| 131-11-3 | Dimethyl phthalate | 2450 | | 320 | 32 | 22 |
| 84-74-2 | Di-n-butyl phthalate | 2460 | | 320 | 32 | 28 |
| 117-84-0 | Di-n-octyl phthalate | 2600 | | 320 | 64 | 14 |
| 206-44-0 | Fluoranthene | 2400 | | 320 | 64 | 35 |
| 86-73-7 | Fluorene | 2380 | | 320 | 32 | 18 |
| 118-74-1 | Hexachlorobenzene | 2300 | | 320 | 64 | 28 |
| 87-68-3 | Hexachlorobutadiene | 2000 | | 320 | 64 | 9.8 |
| 77-47-4 | Hexachlorocyclopentadiene | 1880 | | 1700 | 64 | 49 |
| 67-72-1 | Hexachloroethane | 2000 | | 320 | 32 | 21 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 2450 | M | 320 | 32 | 21 |
| 78-59-1 | Isophorone | 2120 | | 320 | 32 | 17 |
| 91-20-3 | Naphthalene | 2140 | | 320 | 64 | 30 |
| 98-95-3 | Nitrobenzene | 2100 | | 320 | 32 | 21 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-45026-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-186667/2-A

Matrix: Solid | Lab File ID: Y5762.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3550C | Date Extracted: 08/09/2013 19:55

Sample wt/vol: 30.7(g) | Date Analyzed: 08/14/2013 14:22

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 187134 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|---|---|---|---|---|---|---|
| 62-75-9 | N-Nitrosodimethylamine | 1940 | | 510 | 64 | 36 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 2210 | | 320 | 64 | 30 |
| 86-30-6 | N-Nitrosodiphenylamine | 2230 | | 320 | 32 | 21 |
| 87-86-5 | Pentachlorophenol | 4840 | | 1600 | 650 | 320 |
| 85-01-8 | Phenanthrene | 2410 | | 320 | 32 | 17 |
| 108-95-2 | Phenol | 2250 | | 320 | 32 | 18 |
| 129-00-0 | Pyrene | 2470 | | 390 | 32 | 12 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 93 | | 35-125 |
| 321-60-8 | 2-Fluorobiphenyl | 84 | | 45-105 |
| 367-12-4 | 2-Fluorophenol (Surr) | 81 | | 35-105 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 80 | | 35-100 |
| 4165-62-2 | Phenol-d5 (Surr) | 85 | | 40-100 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 91 | | 30-125 |

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5762.D
Lims ID: LCS 280-186667/2-A Client ID:
Inject. Date: 14-Aug-2013 14:22:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: lcs280-186667_2-a
Misc. Info.: 186667 =186667
Operator: hoffmanm Instrument ID: SMS_Y
Injection Vol: 0.5 ul ALS Bottle#: 10
Lims Batch ID: 187134 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\SMSY_8270C.m
Method Label: 8270C / 625
Last Update: 15-Aug-2013 10:01:41 Calib Date: 06-Aug-2013 10:57:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\SMS_Y\20130806-14157.b\Y5640.D
Limit Group: MSSV - 8270C_625
Integrator: RTE ID Type: Deconvolution ID
Column Type: VF-5ms Column Dia: 0.50 mm
Process Host: XAWRK032

First Level Reviewer: hoffmanm Date: 15-Aug-2013 09:36:56

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 4.149 | 4.149 | 0.0 | 97 | 315262 | 40.0 | |
| * 2 Naphthalene-d8 | 136 | 5.195 | 5.189 | 0.006 | 99 | 1238396 | 40.0 | |
| * 3 Acenaphthene-d10 | 164 | 6.658 | 6.658 | 0.0 | 91 | 734027 | 40.0 | |
| * 4 Phenanthrene-d10 | 188 | 7.915 | 7.909 | 0.006 | 96 | 1231530 | 40.0 | |
| * 5 Chrysene-d12 | 240 | 11.293 | 11.288 | 0.005 | 85 | 1377278 | 40.0 | |
| * 6 Perylene-d12 | 264 | 15.065 | 15.060 | 0.005 | 98 | 1267192 | 40.0 | |
| $ 7 2-Fluorophenol | 112 | 3.126 | 3.127 | 0.003 | 90 | 932244 | 81.2 | |
| $ 8 Phenol-d5 | 99 | 3.837 | 3.839 | 0.003 | 91 | 1199067 | 84.9 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.601 | 4.609 | -0.003 | 87 | 977918 | 79.7 | |
| $ 11 2-Fluorobiphenyl | 172 | 6.070 | 6.072 | -0.002 | 99 | 1982603 | 83.8 | |
| $ 12 2,4,6-Tribromophenol | 330 | 7.327 | 7.324 | 0.003 | 90 | 476633 | 93.4 | |
| $ 13 Terphenyl-d14 | 244 | 9.460 | 9.457 | 0.003 | 98 | 2524182 | 90.8 | |
| 27 1,4-Dioxane | 88 | 1.851 | 1.874 | -0.020 | 93 | 176182 | 33.5 | |
| 28 N-Nitrosodimethylamine | 74 | 2.092 | 2.109 | -0.014 | 93 | 459254 | 59.6 | |
| 29 Pyridine | 79 | 2.134 | 2.151 | -0.014 | 98 | 371958 | 28.4 | |
| 40 Phenol | 94 | 3.849 | 3.851 | 0.003 | 98 | 1011881 | 69.0 | |
| 43 Aniline | 93 | 3.890 | 3.898 | -0.003 | 99 | 593630 | 32.6 | |
| 45 Bis(2-chloroethyl)ether | 93 | 3.920 | 3.928 | -0.002 | 97 | 799879 | 69.3 | |
| 47 n-Decane | 43 | 3.967 | 3.975 | -0.002 | 89 | 531526 | 52.2 | |
| 48 2-Chlorophenol | 128 | 3.990 | 3.992 | 0.003 | 96 | 767920 | 66.7 | |
| 49 1,3-Dichlorobenzene | 146 | 4.108 | 4.110 | 0.004 | 97 | 779277 | 62.3 | |
| 50 1,4-Dichlorobenzene | 146 | 4.166 | 4.169 | 0.003 | 94 | 803023 | 63.3 | |
| 51 Benzyl alcohol | 108 | 4.249 | 4.257 | -0.002 | 92 | 526784 | 68.8 | |
| 52 1,2-Dichlorobenzene | 146 | 4.290 | 4.298 | -0.002 | 96 | 770047 | 63.7 | |
| 54 2-Methylphenol | 108 | 4.331 | 4.334 | 0.004 | 95 | 738224 | 68.1 | |
| 55 2,2'-oxybis[1-chloropropane] | 45 | 4.343 | 4.345 | 0.004 | 92 | 875203 | 62.4 | |
| 58 3-Methylphenol | 108 | 4.454 | 4.457 | 0.003 | 91 | 794260 | 70.9 | |
| 59 4-Methylphenol | 108 | 4.454 | 4.457 | 0.003 | 91 | 794260 | 70.9 | |
| 60 3 & 4 Methylphenol | 108 | 4.454 | 4.457 | 0.003 | 91 | 794260 | 70.9 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 61 N-Nitrosodi-n-propylamine | 70 | 4.448 | 4.457 | -0.003 | 83 | 555817 | 67.8 | |
| 63 Acetophenone | 105 | 4.466 | 4.475 | -0.002 | 96 | 1033378 | 66.6 | |
| 66 Hexachloroethane | 117 | 4.560 | 4.569 | -0.002 | 93 | 311644 | 61.4 | |
| 67 Nitrobenzene | 77 | 4.619 | 4.620 | 0.004 | 86 | 792763 | 64.5 | |
| 71 Isophorone | 82 | 4.795 | 4.803 | -0.002 | 97 | 1402654 | 65.1 | |
| 73 2,4-Dimethylphenol | 107 | 4.883 | 4.885 | 0.003 | 95 | 768061 | 69.8 | |
| 74 2-Nitrophenol | 139 | 4.877 | 4.879 | 0.003 | 79 | 398252 | 68.6 | |
| 77 Benzoic acid | 105 | 4.948 | 4.979 | -0.026 | 88 | 613655 | 74.5 | |
| 78 Bis(2-chloroethoxy)methane | 93 | 4.960 | 4.962 | 0.004 | 98 | 908075 | 66.7 | |
| 82 2,4-Dichlorophenol | 162 | 5.071 | 5.073 | 0.003 | 93 | 670545 | 69.9 | |
| 84 1,2,4-Trichlorobenzene | 180 | 5.136 | 5.144 | -0.002 | 90 | 651190 | 63.7 | |
| 87 Naphthalene | 128 | 5.212 | 5.215 | 0.003 | 97 | 2093059 | 65.6 | |
| 88 4-Chloroaniline | 127 | 5.248 | 5.256 | -0.002 | 85 | 564508 | 37.8 | |
| 91 Hexachlorobutadiene | 225 | 5.289 | 5.291 | 0.004 | 91 | 385949 | 61.5 | |
| 94 Caprolactam | 55 | 5.535 | 5.533 | -0.003 | 82 | 336487 | 70.7 | M |
| 97 4-Chloro-3-methylphenol | 107 | 5.635 | 5.638 | 0.003 | 96 | 708132 | 73.7 | |
| 101 2-Methylnaphthalene | 142 | 5.776 | 5.779 | 0.003 | 89 | 1434706 | 68.7 | |
| 103 1-Methylnaphthalene | 142 | 5.864 | 5.867 | 0.003 | 85 | 1348847 | 69.1 | |
| 105 Hexachlorocyclopentadiene | 237 | 5.900 | 5.896 | 0.004 | 92 | 361628 | 57.6 | |
| 106 1,2,4,5-Tetrachlorobenzene | 216 | 5.917 | 5.920 | 0.003 | 93 | 661389 | 65.9 | |
| 108 2,4,6-Trichlorophenol | 196 | 6.011 | 6.008 | 0.003 | 91 | 503695 | 74.7 | |
| 110 2,4,5-Trichlorophenol | 196 | 6.047 | 6.043 | 0.004 | 93 | 540040 | 73.7 | |
| 112 1,1'-Biphenyl | 154 | 6.164 | 6.161 | 0.003 | 95 | 1742514 | 70.2 | |
| 114 2-Chloronaphthalene | 162 | 6.193 | 6.190 | 0.003 | 96 | 1396369 | 68.2 | |
| 116 2-Nitroaniline | 65 | 6.282 | 6.278 | 0.004 | 84 | 450600 | 73.3 | |
| 119 Dimethyl phthalate | 163 | 6.399 | 6.396 | 0.003 | 98 | 1676636 | 75.3 | |
| 120 1,3-Dinitrobenzene | 168 | 6.458 | 6.454 | 0.004 | 87 | 281499 | 76.5 | |
| 121 2,6-Dinitrotoluene | 165 | 6.470 | 6.466 | 0.004 | 89 | 385376 | 74.3 | |
| 122 Acenaphthylene | 152 | 6.546 | 6.542 | 0.004 | 92 | 2221406 | 70.4 | |
| 123 3-Nitroaniline | 138 | 6.628 | 6.625 | 0.003 | 97 | 294374 | 44.9 | |
| 124 Acenaphthene | 153 | 6.687 | 6.683 | 0.004 | 94 | 1377898 | 70.9 | |
| 126 2,4-Dinitrophenol | 184 | 6.711 | 6.707 | 0.003 | 84 | 439641 | 137.2 | |
| 127 4-Nitrophenol | 109 | 6.758 | 6.760 | -0.002 | 88 | 500154 | 147.5 | |
| 130 2,4-Dinitrotoluene | 165 | 6.810 | 6.807 | 0.003 | 88 | 516274 | 76.3 | |
| 132 Dibenzofuran | 168 | 6.828 | 6.824 | 0.004 | 87 | 1987398 | 71.9 | |
| 134 2,3,4,6-Tetrachlorophenol | 232 | 6.934 | 6.924 | 0.010 | 68 | 441983 | 74.2 | |
| 136 Hexadecane | 57 | 6.946 | 6.948 | -0.002 | 94 | 903443 | 70.3 | |
| 139 Diethyl phthalate | 149 | 6.981 | 6.977 | 0.004 | 98 | 1617455 | 73.4 | |
| 142 4-Chlorophenyl phenyl ether | 204 | 7.098 | 7.095 | 0.003 | 90 | 800723 | 71.7 | |
| 143 Fluorene | 166 | 7.116 | 7.112 | 0.004 | 84 | 1664733 | 73.1 | |
| 146 4-Nitroaniline | 138 | 7.145 | 7.148 | -0.003 | 84 | 428376 | 69.0 | |
| 147 4,6-Dinitro-2-methylphenol | 198 | 7.157 | 7.159 | 0.004 | 89 | 581326 | 138.4 | |
| 150 N-Nitrosodiphenylamine | 169 | 7.204 | 7.206 | 0.004 | 58 | 1174533 | 68.5 | |
| 151 1,2-Diphenylhydrazine | 77 | 7.233 | 7.230 | 0.003 | 97 | 1761394 | 72.6 | |
| 152 Azobenzene | 77 | 7.233 | 7.230 | 0.003 | 98 | 1761394 | 71.8 | |
| 155 2,4,6 - Tribromophenol | 330 | 7.327 | 7.324 | 0.003 | 90 | 472305 | 92.2 | |
| 164 4-Bromophenyl phenyl ether | 248 | 7.510 | 7.512 | 0.004 | 62 | 513446 | 71.4 | |
| 165 Hexachlorobenzene | 284 | 7.580 | 7.582 | 0.003 | 89 | 613761 | 70.6 | |
| 167 Atrazine | 200 | 7.627 | 7.629 | 0.003 | 91 | 419623 | 82.4 | |
| 169 n-Octadecane | 85 | 7.715 | 7.717 | 0.003 | 96 | 468663 | 74.7 | |
| 171 Pentachlorophenol | 266 | 7.750 | 7.753 | 0.003 | 92 | 750788 | 148.5 | |
| 176 Phenanthrene | 178 | 7.933 | 7.936 | 0.004 | 98 | 2361694 | 74.0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| 177 Anthracene | 178 | 7.974 | 7.982 | -0.002 | 98 | 2370472 | 72.7 | |
| 178 Carbazole | 167 | 8.109 | 8.124 | -0.002 | 82 | 2316174 | 74.4 | |
| 181 Di-n-butyl phthalate | 149 | 8.332 | 8.335 | 0.003 | 100 | 2727613 | 75.5 | |
| 188 Fluoranthene | 202 | 9.037 | 9.040 | 0.003 | 98 | 2581777 | 73.5 | |
| 189 Benzidine | 184 | | 9.175 | | | | | 9 |
| 191 Pyrene | 202 | 9.313 | 9.316 | 0.003 | 97 | 2710365 | 75.9 | |
| 198 Butyl benzyl phthalate | 149 | 10.154 | 10.150 | 0.004 | 97 | 1232628 | 78.8 | |
| 203 Bis(2-ethylhexyl) phthalate | 149 | 11.223 | 11.213 | 0.010 | 95 | 1682652 | 84.2 | |
| 205 3,3'-Dichlorobenzidine | 252 | 11.229 | 11.225 | 0.004 | 58 | 604814 | 41.7 | |
| 206 Benzo[a]anthracene | 228 | 11.270 | 11.260 | 0.010 | 99 | 2504855 | 73.9 | |
| 207 Chrysene | 228 | 11.352 | 11.343 | 0.009 | 93 | 2366020 | 73.4 | |
| 209 Di-n-octyl phthalate | 149 | 12.862 | 12.853 | 0.009 | 99 | 2758976 | 79.7 | |
| 211 Benzo[b]fluoranthene | 252 | 13.949 | 13.946 | 0.015 | 90 | 2528006 | 79.5 | |
| 212 Benzo[k]fluoranthene | 252 | 14.025 | 13.999 | 0.015 | 95 | 2710931 | 76.9 | |
| 215 Benzo[a]pyrene | 252 | 14.889 | 14.881 | 0.009 | 74 | 2405445 | 73.4 | |
| 221 Dibenz(a,h)anthracene | 278 | 18.456 | 18.435 | 0.022 | 69 | 2365716 | 80.3 | |
| 222 Indeno[1,2,3-cd]pyrene | 276 | 18.356 | 18.354 | 0.010 | 95 | 2202175 | 75.2 | M |
| 223 Benzo[g,h,i]perylene | 276 | 19.143 | 19.141 | 0.009 | 94 | 2423437 | 75.3 | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

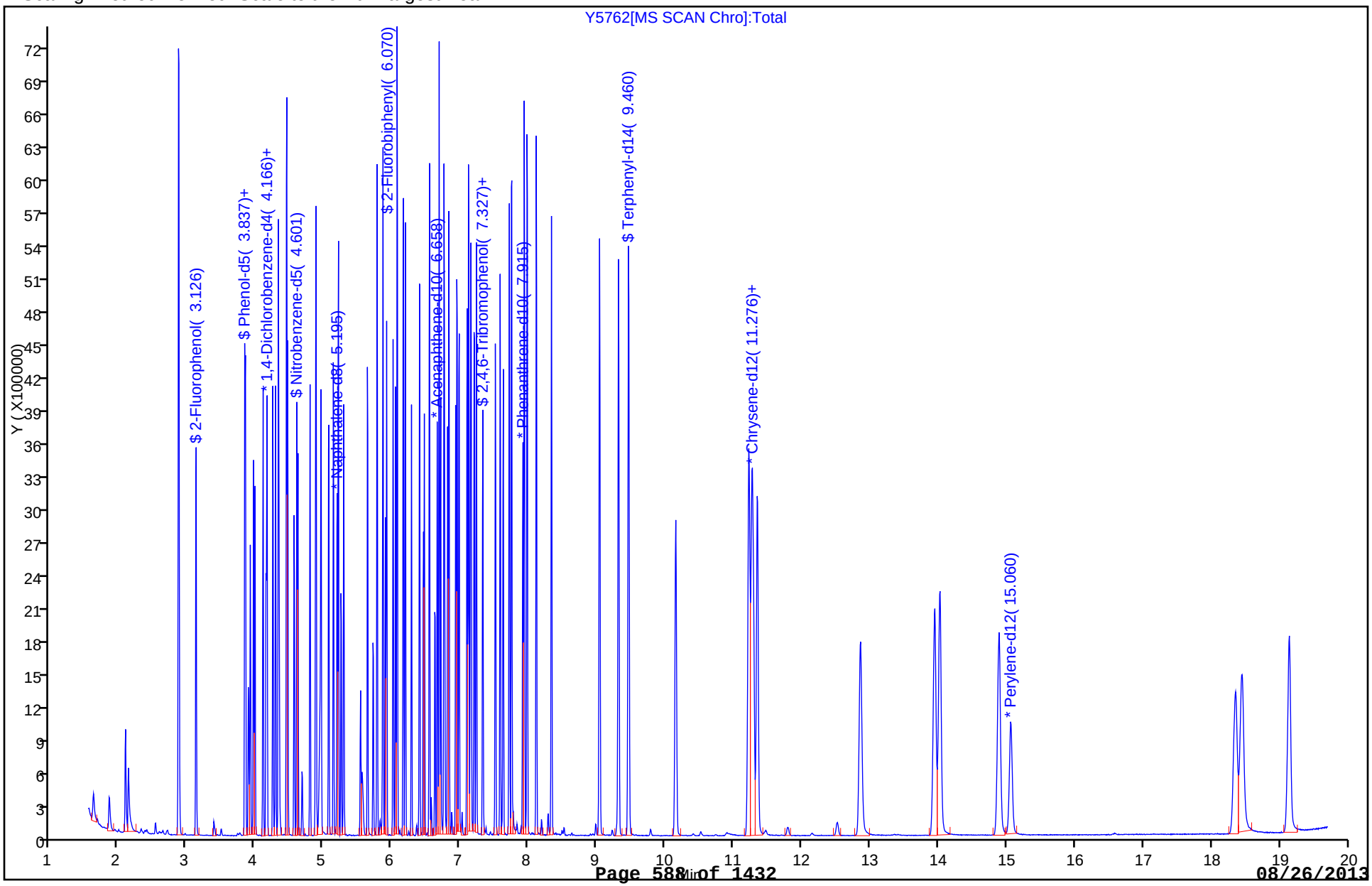
Report Date: 15-Aug-2013 10:01:45 Chrom Revision: 2.0 14-Jul-2013 20:56:00

TestAmerica Denver

Data File: \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5762.D

| | | | |
|---|---|---|---|
| Injection Date: | 14-Aug-2013 14:22:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 12 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

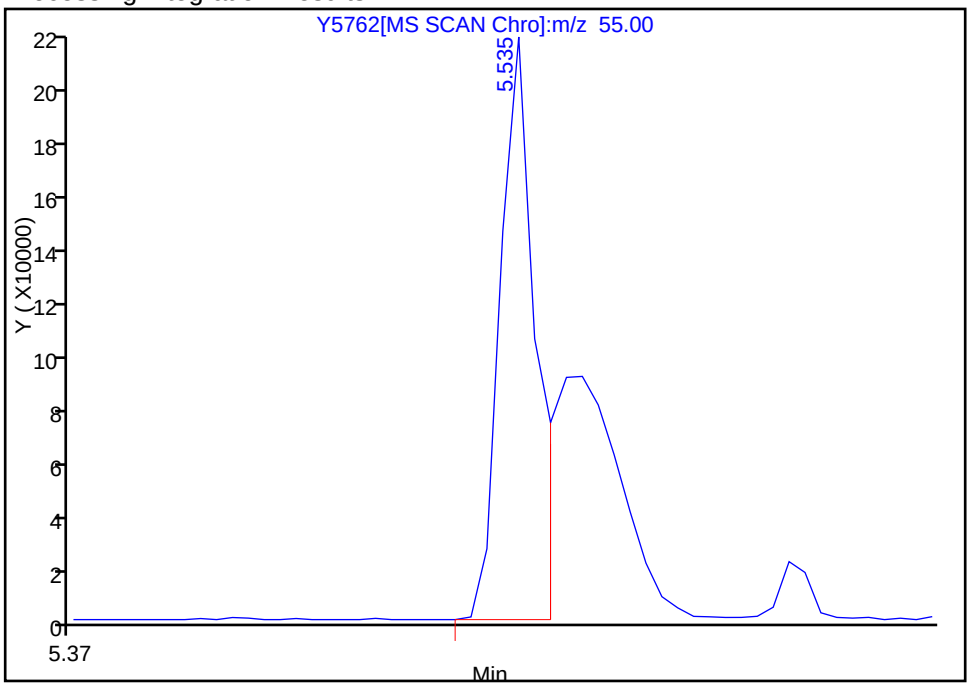
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5762.D | | |
| Injection Date: | 14-Aug-2013 14:22:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 12 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

94 Caprolactam, Signal: 1, m/z: 55.0 Type: quant, RT: 5.54

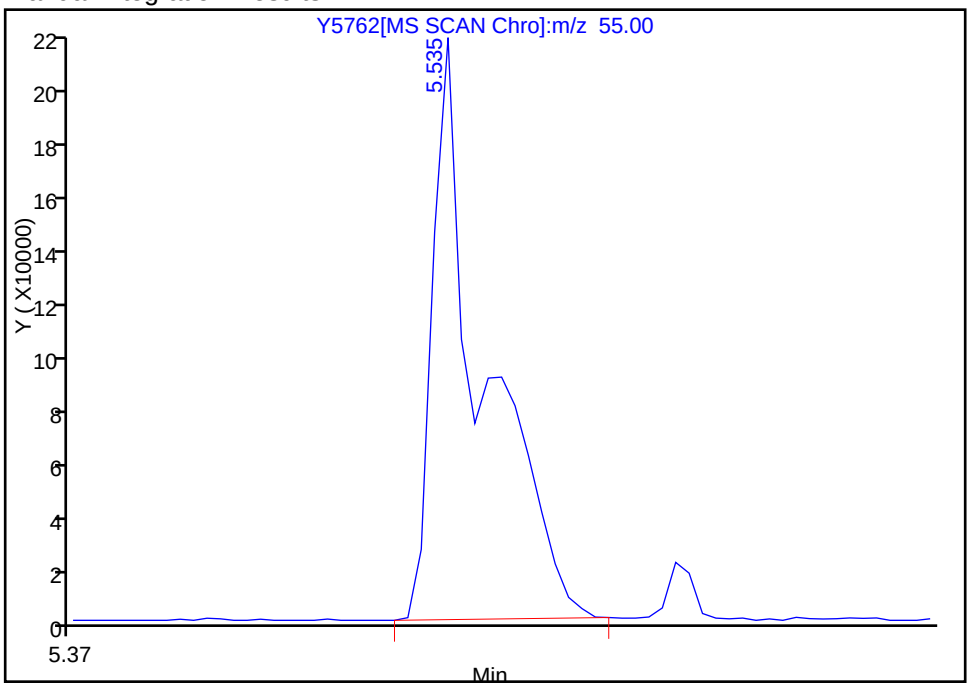
Processing Integration Results

RT: 5.54
Response: 199425
Amount: 41.905582




Manual Integration Results

RT: 5.54
Response: 336487
Amount: 70.706699




Reviewer: hoffmanm, 15-Aug-2013 09:36:56
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

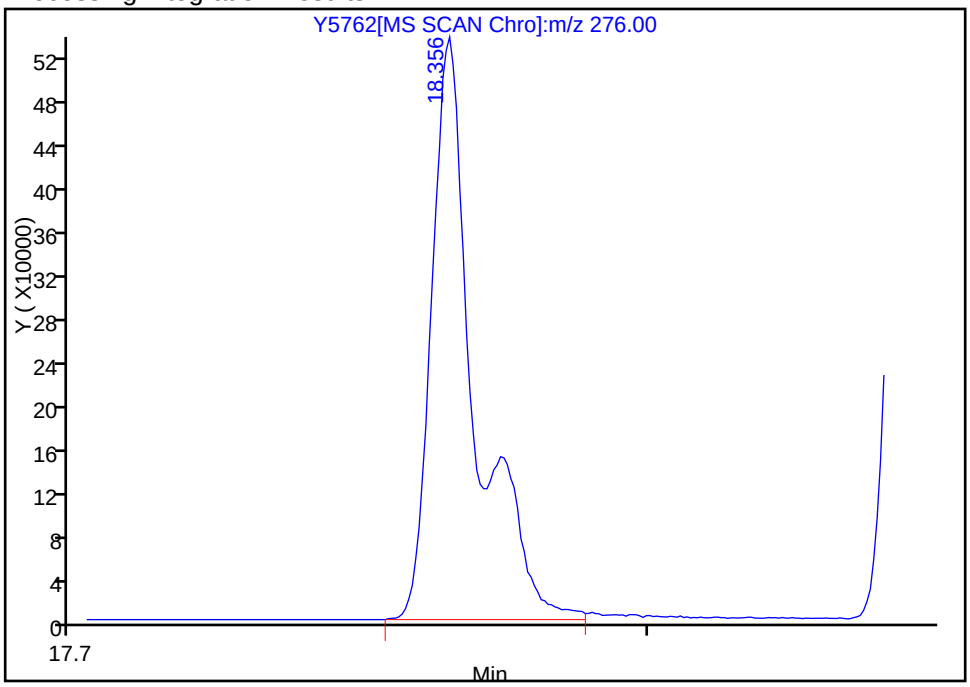
TestAmerica Denver

| | | | |
|---|---|---|---|
| Data File: | \\Denchrom\ChromData\SMS_Y\20130814-14408.b\Y5762.D | | |
| Injection Date: | 14-Aug-2013 14:22:30 | Limit Group: | MSSV - 8270C_625 |
| Client ID: | | Instrument ID: | SMS_Y |
| Lims Batch ID: | 187134 | Lims Sample ID: | 12 |
| Operator ID: | hoffmanm | Injection Vol: | 0.5 ul |
| Column Type: | VF-5ms | Column Dia: | 0.50 mm |

222 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.35

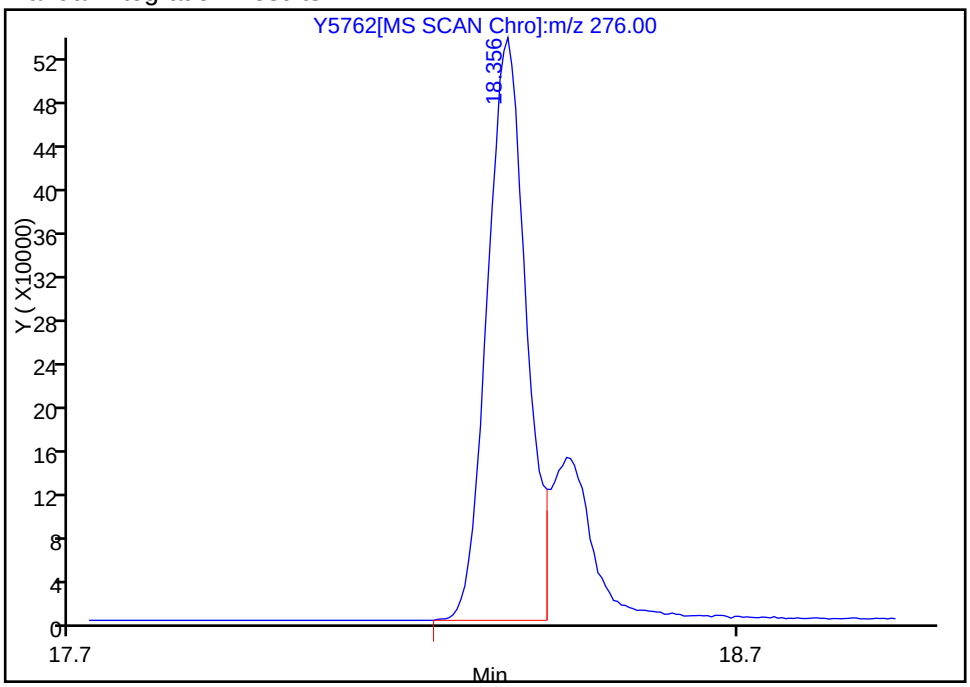
Processing Integration Results

RT: 18.36
Response: 2823415
Amount: 96.425341




Manual Integration Results

RT: 18.36
Response: 2202175
Amount: 75.208737




Reviewer: hoffmanm, 15-Aug-2013 09:36:56
Audit Action: Split an Integrated Peak
Audit Reason: Shouldering

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Start Date: 06/03/2013 13:17

Analysis Batch Number: 177034 End Date: 06/03/2013 20:32

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 280-177034/1 | | 06/03/2013 13:17 | 1 | Y4751.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-177034/11 | | 06/03/2013 17:14 | 1 | Y4760.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-177034/12 | | 06/03/2013 17:43 | 1 | Y4761.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-177034/13 | | 06/03/2013 18:11 | 1 | Y4762.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-177034/14 | | 06/03/2013 18:39 | 1 | Y4763.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-177034/15 | | 06/03/2013 19:07 | 1 | Y4764.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-177034/16 | | 06/03/2013 19:35 | 1 | Y4765.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-177034/17 | | 06/03/2013 20:03 | 1 | Y4766.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-177034/18 | | 06/03/2013 20:32 | 1 | Y4767.D | Vf-5MS (30.25) 0.25(mm) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Start Date: 06/17/2013 07:17

Analysis Batch Number: 179033 End Date: 06/17/2013 12:18

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 280-179033/1 | | 06/17/2013 07:17 | 1 | Y5007.D | Vf-5MS (30.25) 0.25(mm) |
| ICIS 280-179033/2 | | 06/17/2013 07:29 | 1 | Y5008.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-179033/3 | | 06/17/2013 07:55 | 1 | Y5009.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-179033/4 | | 06/17/2013 08:22 | 1 | Y5010.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-179033/5 | | 06/17/2013 08:48 | 1 | Y5011.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-179033/6 | | 06/17/2013 09:14 | 1 | Y5012.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-179033/7 | | 06/17/2013 09:40 | 1 | Y5013.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-179033/8 | | 06/17/2013 10:06 | 1 | Y5014.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-179033/9 | | 06/17/2013 10:33 | 1 | Y5015.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-179033/10 | | 06/17/2013 10:59 | 1 | Y5016.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-179033/11 | | 06/17/2013 11:26 | 1 | Y5017.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-179033/12 | | 06/17/2013 11:52 | 1 | Y5018.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-179033/13 | | 06/17/2013 12:18 | 1 | Y5019.D | Vf-5MS (30.25) 0.25(mm) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Start Date: 08/06/2013 08:01

Analysis Batch Number: 185961 End Date: 08/06/2013 12:16

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 280-185961/1 | | 08/06/2013 08:01 | 1 | Y5633.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-185961/2 | | 08/06/2013 08:19 | 1 | Y5634.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-185961/3 | | 08/06/2013 08:45 | 1 | Y5635.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-185961/4 | | 08/06/2013 09:12 | 1 | Y5636.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-185961/5 | | 08/06/2013 09:38 | 1 | Y5637.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-185961/6 | | 08/06/2013 10:04 | 1 | Y5638.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-185961/7 | | 08/06/2013 10:31 | 1 | Y5639.D | Vf-5MS (30.25) 0.25(mm) |
| IC 280-185961/8 | | 08/06/2013 10:57 | 1 | Y5640.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-185961/9 | | 08/06/2013 11:23 | 1 | Y5641.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-185961/10 | | 08/06/2013 11:50 | 1 | Y5642.D | Vf-5MS (30.25) 0.25(mm) |
| ICV 280-185961/11 | | 08/06/2013 12:16 | 1 | Y5643.D | Vf-5MS (30.25) 0.25(mm) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: SMS_Y Start Date: 08/14/2013 10:38

Analysis Batch Number: 187134 End Date: 08/15/2013 00:04

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 280-187134/3 | | 08/14/2013 10:38 | 1 | Y5753.D | Vf-5MS (30.25) 0.25(mm) |
| CCV 280-187134/4 | | 08/14/2013 10:50 | 1 | Y5754.D | Vf-5MS (30.25) 0.25(mm) |
| CCV 280-187134/5 | | 08/14/2013 11:19 | 1 | Y5755.D | Vf-5MS (30.25) 0.25(mm) |
| CCV 280-187134/6 | | 08/14/2013 11:45 | 1 | Y5756.D | Vf-5MS (30.25) 0.25(mm) |
| MB 280-186667/1-A | | 08/14/2013 13:55 | 1 | Y5761.D | Vf-5MS (30.25) 0.25(mm) |
| LCS 280-186667/2-A | | 08/14/2013 14:22 | 1 | Y5762.D | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 14:48 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 15:15 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 15:41 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 16:07 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 16:34 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 17:00 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 17:27 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 17:53 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 18:20 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 18:46 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 19:13 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| 280-45026-8 | B255SCS0904AA | 08/14/2013 19:39 | 4 | Y5774.D | Vf-5MS (30.25) 0.25(mm) |
| 280-45026-9 | B255SCS0908AA | 08/14/2013 20:06 | 1 | Y5775.D | Vf-5MS (30.25) 0.25(mm) |
| 280-45026-10 | B255SCS0912AA | 08/14/2013 20:32 | 1 | Y5776.D | Vf-5MS (30.25) 0.25(mm) |
| 280-45026-11 | B255SCS1004AA | 08/14/2013 20:59 | 1 | Y5777.D | Vf-5MS (30.25) 0.25(mm) |
| 280-45026-12 | B255SCS1008AA | 08/14/2013 21:25 | 1 | Y5778.D | Vf-5MS (30.25) 0.25(mm) |
| 280-45026-13 | B255SCS1012AA | 08/14/2013 21:52 | 1 | Y5779.D | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 22:45 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 23:11 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/14/2013 23:37 | 1 | | Vf-5MS (30.25) 0.25(mm) |
| ZZZZZ | | 08/15/2013 00:04 | 10 | | Vf-5MS (30.25) 0.25(mm) |

**GC/MS SVOAContinuing Calibration Review Checklist**

*TestAmerica*

*Denver*

Instrument ID and Date: Inst. Y H.A.B 8/14/13

Check Method Used: Analysis ☐ 625 ☑ 8270 ☐ Other SV _____

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **Continuing Calibration** | | | | | |
| 1. DFTPP meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Do SPCC RRFs and CCC %Ds meet method criteria? | ✓ | | | ✓ | |
| 4. Does %D meet criteria for non-CCC compounds? | ✓ | | | ✓ | |
| 5. Isomeric pairs checked for correct peak assignment? | ✓ | | | ✓ | |
| 6. Standards traceability properly documented? | ✓ | | | ✓ | |
| 7. Manual integrations documented and checked? | | | ✓ | N/A | |
| 8. Do the Internal Standards meet criteria for %D against ICAL? | ✓ | | | ✓ | |

1st Level Reviewer: MH Date: 8/14/13

2nd Level Reviewer: [signature] Date: 08/14/13

## Injection Log

Directory: C:\HPCHEM\1\DATA\081413.B

187134

| Line | Vial | FileName | Multiplier | SampleName | Misc Info | Injected |
|---|---|---|---|---|---|---|
| 1 | 11 | Y5750.d | 1. | RINSE | | 14 Aug 2013 09:18 |
| 2 | 12 | Y5751.d | 1. | REF C-C-V | Do Not Upload. | 14 Aug 2013 09:44 |
| 3 | 13 | Y5752.d | 1. | PA I-C-V | | 14 Aug 2013 10:15 |
| 4 | 1 | Y5753.d | 1. | DFTPP | | ✓14 Aug 2013 10:38 |
| 5 | 2 | Y5754.d | 1. | CCV HSLA | | 14 Aug 2013 10:50 |
| 6 | 3 | Y5755.d | 1. | CCV AP9A | | 14 Aug 2013 11:19 |
| 7 | 4 | Y5756.d | 1. | CCV BZHD | | 14 Aug 2013 11:45 |
| 8 | 5 | Y5757.d | 1. | 280-45026-b-8-a | SCREENS | 14 Aug 2013 12:10 |
| 9 | 6 | Y5758.d | 1. | 280-45026-a-9-b | SCREENS | 14 Aug 2013 12:36 |
| 10 | 7 | Y5759.d | 1. | 280-45026-a-12-a | SCREENS | 14 Aug 2013 13:03 |
| 11 | 8 | Y5760.d | 1. | 280-45026-a-13-a | SCREENS | 14 Aug 2013 13:29 |
| 12 | 9 | Y5761.d | 1. | mb280-186667_1-a | 186667 | 14 Aug 2013 13:55 |
| 13 | 10 | Y5762.d | 1. | lcs280-186667_2-a | 186667 | 14 Aug 2013 14:22 |
| 14 | 11 | Y5763.d | 1. | lcs280-186727_2-a | 186727 | 14 Aug 2013 14:48 |
| 15 | 12 | Y5764.d | 1. | lcsd280-186727_3-a | 186727 | 14 Aug 2013 15:15 |
| 16 | 13 | Y5765.d | 1. | 280-45020-a-24-c | 186667 | 14 Aug 2013 15:41 |
| 17 | 14 | Y5766.d | 1. | 280-45020-a-24-dms | 186667 | 14 Aug 2013 16:07 |
| 18 | 15 | Y5767.d | 1. | 280-45020-a-24-emsd | 186667 | 14 Aug 2013 16:34 |
| 19 | 16 | Y5768.d | 1. | 280-45271-a-1-a | 186667 | 14 Aug 2013 17:00 |
| 20 | 17 | Y5769.d | 1. | 280-45271-a-2-a | 186667 | 14 Aug 2013 17:27 |
| 21 | 18 | Y5770.d | 1. | 280-45271-a-3-a – Evaluate NCM 147946 | 186667 | 14 Aug 2013 17:53 |
| 22 | 19 | Y5771.d | 1. | 280-45271-a-4-a | 186667 | 14 Aug 2013 18:20 |
| 23 | 20 | Y5772.d | 1. | 280-45020-a-23-c | 186667 | 14 Aug 2013 18:46 |
| 24 | 21 | Y5773.d | 1. | 280-45020-a-26-g | 186667 | 14 Aug 2013 19:13 |
| 25 | 22 | Y5774.d | 1. | 280-45026-b-8-a 4X-VIS | 186667 | 14 Aug 2013 19:39 |
| 26 | 23 | Y5775.d | 1. | 280-45026-a-9-b | 186667 | 14 Aug 2013 20:06 |
| 27 | 24 | Y5776.d | 1. | 280-45026-a-10-b | 186667 | 14 Aug 2013 20:32 |
| 28 | 25 | Y5777.d | 1. | 280-45026-a-11-a | 186667 | 14 Aug 2013 20:59 |
| 29 | 26 | Y5778.d | 1. | 280-45026-a-12-a | 186667 | 14 Aug 2013 21:25 |
| 30 | 27 | Y5779.d | 1. | 280-45026-a-13-a | 186667 | ✓14 Aug 2013 21:52 |
| 31 | 28 | Y5780.d | 1. | RINSE | | 14 Aug 2013 22:18 |
| 32 | 29 | Y5781.d | 1. | mb280-186727_1-a | 186727 | 14 Aug 2013 22:45 |
| 33 | 30 | Y5782.d | 1. | 280-45287-a-1-a | 186727 | 14 Aug 2013 23:11 |
| 34 | 31 | Y5783.d | 1. | 580-39662-d-1-a | 186727 | 14 Aug 2013 23:37 |
| 35 | 32 | Y5784.d | 1. | 400-78488-f-1-a 10X – NTC NCM 147947 | 186727 | 15 Aug 2013 00:04 |
| 36 | 98 | Y5785.d | 1. | RINSE | | 15 Aug 2013 00:30 |
| 37 | 99 | Y5786.d | 1. | RINSE | | 15 Aug 2013 00:56 |
| 38 | 28 | Y5787.d | 1. | RINSE | | 15 Aug 2013 01:23 |

8/15/13

Diluent Solvent Lot # 34862

Circle: SOP: ~~DV-MS-0011 (8270C/625) or~~ DV-MS-0002 (PAH SIM) or DV-MS-0005 (PAH for CSLP)

Daily Maintenance Performed: Cut-Col, replace liner, gold seal, septa

56

8/15/13

**GC/MS TALS Initial Calibration Review Checklist**

*TestAmerica Denver*

Instrument ID and Date: Y 060313 BZHD

Calibration Event 14317 Batch 177034

Check Analysis Method Used: ☑ 625 ☑ 8270C ☐ 8270D ☐ 8270-SIM ☐ 8270_LL ☐ Other SV _____

| Review Items | ----- Level 1 ---- Yes | No | N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **TALS Initial Calibration** | | | | | |
| 1. DFTPP meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the CHROM source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | | | ✓ | ✓ | Some points <RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. If RRF used for ICAL, were all compounds within 15%? | ✓ | | | ✓ | List all exceptions below (cpd & RSD) |
| 8. Response factors/CCC meet criteria? | | | ✓ | ✓ | |
| 9. Isomeric pairs checked for correct peak assignment? | | | ✓ | ✓ | |
| 10. Data checked for detector saturation? | ✓ | | | ✓ | |
| 11. Standards traceability properly documented (including COA)? | ✓ | | | ✓ | |
| 12. 2nd Source ICV recovery 80-120% (± 20% drift) for DoD projects, 65-135% (± 35% or ± 55% of expected for poor performers) for 8270C non-DoD, 70-130% 8270D non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: MMT Date: 6/5/13

2nd Level Reviewer: BDW Date: 6/6/13



Page 597 of 1432
08/26/2013

## Injection Log

Directory: C:\HPCHEM\1\DATA\060313.B

| Line | Vial | FileName | Multiplier | SampleName | Misc Info | Injected |
|---|---|---|---|---|---|---|
| 1 | 1 | Y4747.d | 1. | RINSE | | 3 Jun 2013 12:14 |
| 2 | 1 | Y4748.d | 1. | DFTPP | *Tune Adjustments. | 3 Jun 2013 12:22 |
| 3 | 1 | Y4749.d | 1. | DFTPP | | 3 Jun 2013 12:35 |
| 4 | 1 | Y4750.d | 1. | DFTPP | | 3 Jun 2013 13:00 |
| 5 | 1 | Y4751.d | 1. | DFTPP (OK) | | ✓ 3 Jun 2013 13:17 |
| 6 | 2 | Y4752.d | 1. | IC PHE080 | | 3 Jun 2013 13:30 |
| 7 | 3 | Y4753.d | 1. | IC PHE010 | | 3 Jun 2013 13:57 |
| 8 | 4 | Y4754.d | 1. | IC PHE020 | | 3 Jun 2013 14:25 |
| 9 | 5 | Y4755.d | 1. | IC PHE050 | | 3 Jun 2013 14:54 |
| 10 | 6 | Y4756.d | 1. | IC PHE120 | | 3 Jun 2013 15:22 |
| 11 | 7 | Y4757.d | 1. | IC PHE160 | | 3 Jun 2013 15:50 |
| 12 | 8 | Y4758.d | 1. | IC PHE200 | | 3 Jun 2013 16:18 |
| 13 | 9 | Y4759.d | 1. | ICV PHE100 | | 3 Jun 2013 16:46 |
| 14 | 10 | Y4760.d | 1. | IC BZHD200 | | 3 Jun 2013 17:14 |
| 15 | 11 | Y4761.d | 1. | IC BZHD160 | | 3 Jun 2013 17:43 |
| 16 | 12 | Y4762.d | 1. | IC BZHD120 | | 3 Jun 2013 18:11 |
| 17 | 13 | Y4763.d | 1. | IC BZHD080 | | 3 Jun 2013 18:39 |
| 18 | 14 | Y4764.d | 1. | IC BZHD050 | | 3 Jun 2013 19:07 |
| 19 | 15 | Y4765.d | 1. | IC BZHD020 | | 3 Jun 2013 19:35 |
| 20 | 16 | Y4766.d | 1. | IC BZHD010 | | 3 Jun 2013 20:03 |
| 21 | 17 | Y4767.d | 1. | ICV BZHDSSV | | ✓ 3 Jun 2013 20:32 |

6/6/13

Diluent Solvent Lot # NA .

Circle: ~~SOP: DV-MS-0011 (8270C/625) or~~ DV-MS-0002 (PAH SIM) or DV-MS-0005 (PAH for CSLP)

Daily Maintenance Performed: Cut Col / replaced liner, gold seal, septa

MS 6/6/13

**GC/MS TALS Initial Calibration Review Checklist**

*TestAmerica Denver*

Instrument ID and Date: Inst. Y 6/17/13 HSL

Calibration Event 14482 Batch 179033

Check Analysis Method Used: ☑ 625 ☑ 8270C ☐ 8270D ☐ 8270-SIM ☐ 8270_LL ☐ Other SV _____

| Review Items | Level 1 - Yes | Level 1 - No | Level 1 - N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **TALS Initial Calibration** | | | | | |
| 1. DFTPP meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the CHROM source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | ✓ | | | ✓ | Some points <RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. If RRF used for ICAL, were all compounds within 15%? | | | ✓ | n/a | List all exceptions below (cpd & RSD) |
| 8. Response factors/CCC meet criteria? | ✓ | | | ✓ | |
| 9. Isomeric pairs checked for correct peak assignment? | ✓ | | | ✓ | |
| 10. Data checked for detector saturation? | ✓ | | | ✓ | |
| 11. Standards traceability properly documented (including COA)? | ✓ | | | ✓ | |
| 12. 2nd Source ICV recovery ~~80-120% (± 20% drift)~~ for DoD projects, 65-135% (± 35% or ± 55% of expected for poor performers) for 8270C non-DoD, 70-130% 8270D non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: _____ Date: 6/19/13

2nd Level Reviewer: _____ Date: 06/19/13

## Injection Log

Directory: C:\HPCHEM\1\DATA\061713.B

| Line | Vial | FileName | Multiplier | SampleName | Misc Info | Injected |
|---|---|---|---|---|---|---|
| 1 | 1 | Y5006.d | 1. | RINSE | | 17 Jun 2013 07:06 |
| 2 | 1 | Y5007.d | 1. | DFTPP | | 17 Jun 2013 07:17 |
| 3 | 2 | Y5008.d | 1. | ICIS HSLA080 | | 17 Jun 2013 07:29 |
| 4 | 3 | Y5009.d | 1. | IC HSLA004 | | 17 Jun 2013 07:55 |
| 5 | 4 | Y5010.d | 1. | IC HSLA010 | | 17 Jun 2013 08:22 |
| 6 | 5 | Y5011.d | 1. | IC HSLA020 | | 17 Jun 2013 08:48 |
| 7 | 6 | Y5012.d | 1. | IC HSLA050 | | 17 Jun 2013 09:14 |
| 8 | 7 | Y5013.d | 1. | IC HSLA120 | | 17 Jun 2013 09:40 |
| 9 | 8 | Y5014.d | 1. | IC HSLA160 | | 17 Jun 2013 10:06 |
| 10 | 9 | Y5015.d | 1. | IC HSLA200 | | 17 Jun 2013 10:33 |
| 11 | 10 | Y5016.d | 1. | ICV HSLB1SSV | | 17 Jun 2013 10:59 |
| 12 | 11 | Y5017.d | 1. | ICV HSLB2SSV | | 17 Jun 2013 11:26 |
| 13 | 12 | Y5018.d | 1. | ICV HSLB3SSV | | 17 Jun 2013 11:52 |
| 14 | 13 | Y5019.d | 1. | ICV FAMSSV | | 17 Jun 2013 12:18 |
| 15 | 14 | Y5020.d | 1. | 600-74232-b-4-a 2000X | | 17 Jun 2013 13:01 |

MS 6/20/13

Diluent Solvent Lot # 34862

Circle: SOP: ~~DV-MS-0011 (8270C/625)~~ or DV-MS-0002 (PAH SIM) or DV-MS-0005 (PAH for CSLP)

Daily Maintenance Performed: Cut Col/replace liner, gold seal, Septa

MS 6/20/13

## GC/MS TALS Initial Calibration Review Checklist

*TestAmerica Denver*

Instrument ID and Date: Inst. Y APG 080613

Calibration Event 15079 Batch 185961
Calibration Event NA Batch NA

Check Analysis Method Used: ☑ 625 ☑ 8270C ☐ 8270D ☐ 8270-SIM ☐ 8270_LL ☐ Other SV _____

| Review Items | Level 1 Yes | Level 1 No | Level 1 N/A | Level 2 | Comments |
|---|---|---|---|---|---|
| **TALS Initial Calibration** | | | | | |
| 1. DFTPP meets criteria? | ✓ | | | ✓ | |
| 2. ICAL date and instrument ID verified? | ✓ | | | ✓ | |
| 3. Does the Form VI match the data in the CHROM source method? | ✓ | | | ✓ | |
| 4. Sufficient number of calibration points used? | ✓ | | | ✓ | |
| 5. Reasons for removal of points documented? | | | ✓ | NA | Some points <RL removed |
| 6. %RSD or correlation coefficient within method limits? | ✓ | | | ✓ | |
| 7. If RRF used for ICAL, were all compounds within 15%? | | | ✓ | NA | List all exceptions below (cpd & RSD) |
| 8. Response factors/CCC meet criteria? | | | ✓ | NA | |
| 9. Isomeric pairs checked for correct peak assignment?<br>Aniline and bis(2-chloroethyl) ether<br>1,3-Dichlorobenzene, 1,4-dichlorobenzene and 1,2-dichlorobenzene<br>2-Methylphenol, 3/4-Methylphenol<br>2,4-Dimethylphenol and 3,5-dimethylphenol<br>2,4,6-Trichlorophenol and 2,4,5-Trichlorophenol<br>Phenanthrene and anthracene<br>Fluoranthene and pyrene<br>Benzo(a)anthracene and chrysene<br>Benzo(e)pyrene and benzo(a)pyrene<br>Benzo(b) and (k)fluoranthene | ✓ | | | ✓ | |
| 10. Data checked for detector saturation? | ✓ | | | ✓ | |
| 11. Standards traceability properly documented (including COA)? | ✓ | | | ✓ | |
| 12. 2nd Source ICV recovery 80-120% (± 20% drift) for DoD projects, 65-135% (± 35% or ± 55% of expected for poor performers) for 8270C non-DoD, 70-130% 8270D non-DoD? Exceptions noted in comment section. | ✓ | | | ✓ | |

1st Level Reviewer: [signature] Date: 8/7/13

2nd Level Reviewer: [signature] Date: 080713

## Injection Log

Directory: C:\HPCHEM\1\DATA\080613.B

| Line | Vial | FileName | Multiplier | SampleName | Misc Info | Injected |
|---|---|---|---|---|---|---|
| 1 | 1 | Y5632.d | 1. | RINSE | | 6 Aug 2013 07:38 |
| 2 | 1 | Y5633.d | 1. | DFTPP | | 6 Aug 2013 08:01 |
| 3 | 2 | Y5634.d | 1. | IC AP9200 | | 6 Aug 2013 08:19 |
| 4 | 3 | Y5635.d | 1. | IC AP9160 | | 6 Aug 2013 08:45 |
| 5 | 4 | Y5636.d | 1. | IC AP9120 | | 6 Aug 2013 09:12 |
| 6 | 5 | Y5637.d | 1. | IC AP9080 | | 6 Aug 2013 09:38 |
| 7 | 6 | Y5638.d | 1. | IC AP9050 | | 6 Aug 2013 10:04 |
| 8 | 7 | Y5639.d | 1. | IC AP9020 | | 6 Aug 2013 10:31 |
| 9 | 8 | Y5640.d | 1. | IC AP9010 | | 6 Aug 2013 10:57 |
| 10 | 9 | Y5641.d | 1. | ICV AP9B1 | | 6 Aug 2013 11:23 |
| 11 | 10 | Y5642.d | 1. | ICV AP9B2 | | 6 Aug 2013 11:50 |
| 12 | 11 | Y5643.d | 1. | ICV AP9B3 | | 6 Aug 2013 12:16 |

MA 8/7/13

**Diluent Solvent Lot #** NA .

**Circle: SOP: DV-MS-0011 (8270C/625) or DV-MS-0002 (PAH SIM) or DV-MS-0005 (PAH for CSLP)**

Daily Maintenance Performed: Cut Col / replace liner, gold seal, septum MA 8/7/13

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Batch Number: 186667 Batch Start Date: 08/09/13 19:55 Batch Analyst: Pottruff, Erma J

Batch Method: 3550C Batch End Date: 08/12/13 20:25

| Lab Sample ID | Client Sample ID | Method Chain | Basis | CalcMsg | InitialAmount | FinalAmount | 8270_LCS_Main 00002 | 8270_LCS_Supp 00010 | 8270Surrogate 00061 |
|---|---|---|---|---|---|---|---|---|---|
| MB 280-186667/1 | | 3550C, 8270D/DoD | | CALC NOT SET TO RUN | 30.3 g | 1000 uL | | | 1 mL |
| LCS 280-186667/2 | | 3550C, 8270D/DoD | | CALC NOT SET TO RUN | 30.7 g | 1000 uL | 1 mL | 1 mL | 1 mL |
| 280-45026-B-8 | B255SCS0904AA | 3550C, 8270D/DoD | T | CALC NOT SET TO RUN | 30.5 g | 1000 uL | | | 1 mL |
| 280-45026-A-9 | B255SCS0908AA | 3550C, 8270D/DoD | T | CALC NOT SET TO RUN | 31.0 g | 1000 uL | | | 1 mL |
| 280-45026-A-10 | B255SCS0912AA | 3550C, 8270D/DoD | T | CALC NOT SET TO RUN | 30.9 g | 1000 uL | | | 1 mL |
| 280-45026-A-11 | B255SCS1004AA | 3550C, 8270D/DoD | T | CALC NOT SET TO RUN | 31.3 g | 1000 uL | | | 1 mL |
| 280-45026-A-12 | B255SCS1008AA | 3550C, 8270D/DoD | T | CALC NOT SET TO RUN | 32.6 g | 1000 uL | | | 1 mL |
| 280-45026-A-13 | B255SCS1012AA | 3550C, 8270D/DoD | T | CALC NOT SET TO RUN | 31.3 g | 1000 uL | | | 1 mL |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Batch Number: 186667  Batch Start Date: 08/09/13 19:55  Batch Analyst: Pottruff, Erma J

Batch Method: 3550C  Batch End Date: 08/12/13 20:25

| Batch Notes | |
|---|---|
| Balance ID | 24750402 |
| Batch Comment | DV-OP-0016/0007 Aliquot by: Ian McKittrick |
| Blank Soil Lot Number | 2BI0314 |
| Person's name who did the concentration | Curley, N |
| Na2SO4 Lot Number | 0000034574_00005 |
| Nominal Amount Used | 30 g |
| Prep Solvent Lot # | 1:1AceMeCl2_00030 / MeCl2_Cycl_00114 |
| Prep Solvent Name | 1:1AceMeCl2 / MeCl2 |
| Prep Solvent Volume Used | 300 mL |
| Person's name who did the prep | EJ |
| Person's name who witnessed reagent drop | Reviewer: BJ |
| Analyst who added reagent | EJ Pip: E |
| Perform Calculation (0=No, 1=Yes) | 0 |
| Uncorrected In Temperature | 88 Degrees C |
| Vendor of Reagent used | Baker |
| Water Bath ID | B |
| Water Bath Temperature | 88 Degrees C |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# METALS

COVER PAGE
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

Project: Griffiss AFB DP013 Bldg 255

| Client Sample ID | Lab Sample ID |
|---|---|
| B255SCS0704AA | 280-45026-1 |
| B255SCS0704AC | 280-45026-2 |
| B255SCS0708AA | 280-45026-3 |
| B255SCS0712AA | 280-45026-4 |
| B255SCS0804AA | 280-45026-5 |
| B255SCS0808AA | 280-45026-6 |
| B255SCS0812AA | 280-45026-7 |
| B255SCS0904AA | 280-45026-8 |
| B255SCS0908AA | 280-45026-9 |
| B255SCS0912AA | 280-45026-10 |
| B255SCS1104AA | 280-45026-14 |
| B255SCS1108AA | 280-45026-15 |
| B255SCS1112AA | 280-45026-16 |
| B255SCS1116AA | 280-45026-17 |

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0704AA
Lab Sample ID: 280-45026-1
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:50
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 84.7

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 3700 | 54 | 3.2 | 1.7 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.64 | 2.1 | 0.64 | 0.41 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 2.4 | 2.7 | 1.1 | 0.71 | mg/Kg | J | | 1 | 6010C |
| Barium | 12 | 2.1 | 0.19 | 0.082 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.17 | 0.54 | 0.075 | 0.035 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.4 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.083 | 0.54 | 0.11 | 0.044 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 1900 | 110 | 21 | 15 | mg/Kg | | | 1 | 6010C |
| Chromium | 4.2 | 3.8 | 0.16 | 0.062 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 3.2 | 1.1 | 0.21 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 8.5 | 5.4 | 0.54 | 0.23 | mg/Kg | | Q | 1 | 6010C |
| Iron | 7900 | 86 | 5.4 | 4.1 | mg/Kg | | | 1 | 6010C |
| Lead | 2.2 | 0.97 | 0.86 | 0.29 | mg/Kg | | | 1 | 6010C |
| Magnesium | 1700 | 32 | 5.4 | 4.0 | mg/Kg | | | 1 | 6010C |
| Manganese | 270 | 4.8 | 0.16 | 0.11 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.54 | 2.7 | 0.54 | 0.28 | mg/Kg | U | | 1 | 6010C |
| Nickel | 6.4 | 4.3 | 0.21 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 540 | 320 | 54 | 44 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.2 | 1.3 | 0.92 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.21 | 1.6 | 0.21 | 0.17 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 540 | 110 | 63 | mg/Kg | U | | 1 | 6010C |
| Strontium | 5.6 | 1.6 | 0.086 | 0.039 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.3 | 3.2 | 1.3 | 0.70 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 6.7 | 2.1 | 0.21 | 0.10 | mg/Kg | | | 1 | 6010C |
| Zinc | 15 | 8.6 | 0.86 | 0.43 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0704AC
Lab Sample ID: 280-45026-2
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:50
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 85.0

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 3200 | 50 | 3.0 | 1.5 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.60 | 2.0 | 0.60 | 0.38 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 2.0 | 2.5 | 1.0 | 0.66 | mg/Kg | J | | 1 | 6010C |
| Barium | 10 | 2.0 | 0.18 | 0.076 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.14 | 0.50 | 0.070 | 0.033 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.3 | 10 | 1.0 | 0.98 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.052 | 0.50 | 0.10 | 0.041 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 2000 | 100 | 20 | 14 | mg/Kg | | | 1 | 6010C |
| Chromium | 3.8 | 3.5 | 0.15 | 0.058 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 2.6 | 1.0 | 0.20 | 0.10 | mg/Kg | | | 1 | 6010C |
| Copper | 8.2 | 5.0 | 0.50 | 0.22 | mg/Kg | | Q | 1 | 6010C |
| Iron | 7000 | 80 | 5.0 | 3.8 | mg/Kg | | | 1 | 6010C |
| Lead | 1.8 | 0.90 | 0.80 | 0.27 | mg/Kg | | | 1 | 6010C |
| Magnesium | 1500 | 30 | 5.0 | 3.7 | mg/Kg | | | 1 | 6010C |
| Manganese | 240 | 4.5 | 0.15 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.50 | 2.5 | 0.50 | 0.26 | mg/Kg | U | | 1 | 6010C |
| Nickel | 5.7 | 4.0 | 0.20 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 490 | 300 | 50 | 41 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.0 | 1.2 | 0.86 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.20 | 1.5 | 0.20 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 100 | 500 | 100 | 59 | mg/Kg | U | | 1 | 6010C |
| Strontium | 4.7 | 1.5 | 0.080 | 0.036 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.2 | 3.0 | 1.2 | 0.65 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 5.8 | 2.0 | 0.20 | 0.094 | mg/Kg | | | 1 | 6010C |
| Zinc | 14 | 8.0 | 0.80 | 0.40 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0708AA
Lab Sample ID: 280-45026-3
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:54
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 85.9

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 7800 | 55 | 3.3 | 1.7 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.66 | 2.2 | 0.66 | 0.42 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 5.3 | 2.8 | 1.1 | 0.73 | mg/Kg | | | 1 | 6010C |
| Barium | 34 | 2.2 | 0.20 | 0.084 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.44 | 0.55 | 0.078 | 0.037 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.6 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.17 | 0.55 | 0.11 | 0.045 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 2300 | 110 | 22 | 16 | mg/Kg | | | 1 | 6010C |
| Chromium | 10 | 3.9 | 0.17 | 0.064 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 5.1 | 1.1 | 0.22 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 36 | 5.5 | 0.55 | 0.24 | mg/Kg | | Q | 1 | 6010C |
| Iron | 19000 | 89 | 5.5 | 4.2 | mg/Kg | | | 1 | 6010C |
| Lead | 5.5 | 1.0 | 0.89 | 0.30 | mg/Kg | | | 1 | 6010C |
| Magnesium | 2700 | 33 | 5.5 | 4.1 | mg/Kg | | | 1 | 6010C |
| Manganese | 1500 | 25 | 0.83 | 0.55 | mg/Kg | | Q D | 5 | 6010C |
| Molybdenum | 1.0 | 2.8 | 0.55 | 0.29 | mg/Kg | J | | 1 | 6010C |
| Nickel | 13 | 4.4 | 0.22 | 0.14 | mg/Kg | | | 1 | 6010C |
| Potassium | 660 | 330 | 55 | 45 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.3 | 1.3 | 0.95 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.22 | 1.7 | 0.22 | 0.18 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 550 | 110 | 65 | mg/Kg | U | | 1 | 6010C |
| Strontium | 9.4 | 1.7 | 0.089 | 0.040 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.3 | 3.3 | 1.3 | 0.72 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 14 | 2.2 | 0.22 | 0.10 | mg/Kg | | | 1 | 6010C |
| Zinc | 34 | 8.9 | 0.89 | 0.44 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0712AA
Lab Sample ID: 280-45026-4
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 16:00
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 88.0

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 6100 | 51 | 3.0 | 1.6 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.61 | 2.0 | 0.61 | 0.39 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 4.1 | 2.5 | 1.0 | 0.67 | mg/Kg | | | 1 | 6010C |
| Barium | 24 | 2.0 | 0.18 | 0.077 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.37 | 0.51 | 0.071 | 0.034 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.8 | 10 | 1.0 | 0.99 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.14 | 0.51 | 0.10 | 0.042 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 2900 | 100 | 20 | 14 | mg/Kg | | | 1 | 6010C |
| Chromium | 8.3 | 3.6 | 0.15 | 0.059 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 4.7 | 1.0 | 0.20 | 0.10 | mg/Kg | | | 1 | 6010C |
| Copper | 23 | 5.1 | 0.51 | 0.22 | mg/Kg | | Q | 1 | 6010C |
| Iron | 15000 | 81 | 5.1 | 3.9 | mg/Kg | | | 1 | 6010C |
| Lead | 4.7 | 0.91 | 0.81 | 0.27 | mg/Kg | | | 1 | 6010C |
| Magnesium | 2600 | 30 | 5.1 | 3.8 | mg/Kg | | | 1 | 6010C |
| Manganese | 670 | 4.6 | 0.15 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.27 | 2.5 | 0.51 | 0.26 | mg/Kg | J | | 1 | 6010C |
| Nickel | 9.9 | 4.1 | 0.20 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 710 | 300 | 51 | 42 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.0 | 1.2 | 0.87 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.20 | 1.5 | 0.20 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 100 | 510 | 100 | 60 | mg/Kg | U | | 1 | 6010C |
| Strontium | 10 | 1.5 | 0.081 | 0.037 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.2 | 3.0 | 1.2 | 0.66 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 2.0 | 0.20 | 0.095 | mg/Kg | | | 1 | 6010C |
| Zinc | 40 | 8.1 | 0.81 | 0.40 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0804AA
Lab Sample ID: 280-45026-5
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:30
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 80.7

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5700 | 52 | 3.1 | 1.6 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.62 | 2.1 | 0.62 | 0.40 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 2.7 | 2.6 | 1.0 | 0.69 | mg/Kg | | | 1 | 6010C |
| Barium | 23 | 2.1 | 0.19 | 0.079 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.26 | 0.52 | 0.073 | 0.034 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.8 | 10 | 1.0 | 1.0 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.14 | 0.52 | 0.10 | 0.043 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 2700 | 100 | 21 | 15 | mg/Kg | | | 1 | 6010C |
| Chromium | 7.0 | 3.6 | 0.16 | 0.060 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 4.1 | 1.0 | 0.21 | 0.10 | mg/Kg | | | 1 | 6010C |
| Copper | 13 | 5.2 | 0.52 | 0.23 | mg/Kg | | Q | 1 | 6010C |
| Iron | 11000 | 83 | 5.2 | 4.0 | mg/Kg | | | 1 | 6010C |
| Lead | 14 | 0.94 | 0.83 | 0.28 | mg/Kg | | | 1 | 6010C |
| Magnesium | 2200 | 31 | 5.2 | 3.9 | mg/Kg | | | 1 | 6010C |
| Manganese | 380 | 4.7 | 0.16 | 0.10 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.52 | 2.6 | 0.52 | 0.27 | mg/Kg | U | | 1 | 6010C |
| Nickel | 9.1 | 4.2 | 0.21 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 720 | 310 | 52 | 43 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.1 | 1.2 | 0.90 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.21 | 1.6 | 0.21 | 0.17 | mg/Kg | U | | 1 | 6010C |
| Sodium | 100 | 520 | 100 | 61 | mg/Kg | U | | 1 | 6010C |
| Strontium | 6.3 | 1.6 | 0.083 | 0.037 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.2 | 3.1 | 1.2 | 0.68 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 12 | 2.1 | 0.21 | 0.098 | mg/Kg | | | 1 | 6010C |
| Zinc | 33 | 8.3 | 0.83 | 0.41 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0808AA
Lab Sample ID: 280-45026-6
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:35
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 89.6

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 3300 | 55 | 3.3 | 1.7 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.66 | 2.2 | 0.66 | 0.42 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 1.9 | 2.8 | 1.1 | 0.73 | mg/Kg | J | | 1 | 6010C |
| Barium | 11 | 2.2 | 0.20 | 0.084 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.15 | 0.55 | 0.077 | 0.036 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.3 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.069 | 0.55 | 0.11 | 0.045 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 810 | 110 | 22 | 16 | mg/Kg | | | 1 | 6010C |
| Chromium | 3.9 | 3.9 | 0.17 | 0.064 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 2.7 | 1.1 | 0.22 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 8.0 | 5.5 | 0.55 | 0.24 | mg/Kg | | Q | 1 | 6010C |
| Iron | 7200 | 88 | 5.5 | 4.2 | mg/Kg | | | 1 | 6010C |
| Lead | 1.5 | 0.99 | 0.88 | 0.30 | mg/Kg | | | 1 | 6010C |
| Magnesium | 1400 | 33 | 5.5 | 4.1 | mg/Kg | | | 1 | 6010C |
| Manganese | 240 | 5.0 | 0.17 | 0.11 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.55 | 2.8 | 0.55 | 0.29 | mg/Kg | U | | 1 | 6010C |
| Nickel | 5.8 | 4.4 | 0.22 | 0.14 | mg/Kg | | | 1 | 6010C |
| Potassium | 510 | 330 | 55 | 45 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.3 | 1.3 | 0.95 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.22 | 1.7 | 0.22 | 0.18 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 550 | 110 | 65 | mg/Kg | U | | 1 | 6010C |
| Strontium | 2.9 | 1.7 | 0.088 | 0.040 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.3 | 3.3 | 1.3 | 0.72 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 5.9 | 2.2 | 0.22 | 0.10 | mg/Kg | | | 1 | 6010C |
| Zinc | 14 | 8.8 | 0.88 | 0.44 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0812AA
Lab Sample ID: 280-45026-7
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:40
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 88.9

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5900 | 49 | 3.0 | 1.5 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.59 | 2.0 | 0.59 | 0.37 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 5.1 | 2.5 | 0.99 | 0.65 | mg/Kg | | | 1 | 6010C |
| Barium | 29 | 2.0 | 0.18 | 0.075 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.30 | 0.49 | 0.069 | 0.033 | mg/Kg | J | | 1 | 6010C |
| Boron | 2.0 | 9.9 | 0.99 | 0.97 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 1.0 | 0.49 | 0.099 | 0.040 | mg/Kg | | Q | 1 | 6010C |
| Calcium | 2000 | 99 | 20 | 14 | mg/Kg | | | 1 | 6010C |
| Chromium | 27 | 3.5 | 0.15 | 0.057 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 5.4 | 0.99 | 0.20 | 0.099 | mg/Kg | | | 1 | 6010C |
| Copper | 41 | 4.9 | 0.49 | 0.21 | mg/Kg | | Q | 1 | 6010C |
| Iron | 14000 | 79 | 4.9 | 3.7 | mg/Kg | | | 1 | 6010C |
| Lead | 140 | 0.89 | 0.79 | 0.27 | mg/Kg | | | 1 | 6010C |
| Magnesium | 2500 | 30 | 4.9 | 3.6 | mg/Kg | | | 1 | 6010C |
| Manganese | 370 | 4.4 | 0.15 | 0.099 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.52 | 2.5 | 0.49 | 0.26 | mg/Kg | J | | 1 | 6010C |
| Nickel | 11 | 3.9 | 0.20 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 720 | 300 | 49 | 40 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 3.0 | 1.2 | 0.85 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.20 | 1.5 | 0.20 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 99 | 490 | 99 | 58 | mg/Kg | U | | 1 | 6010C |
| Strontium | 4.1 | 1.5 | 0.079 | 0.036 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.2 | 3.0 | 1.2 | 0.64 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 11 | 2.0 | 0.20 | 0.093 | mg/Kg | | | 1 | 6010C |
| Zinc | 160 | 7.9 | 0.79 | 0.39 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0904AA
Lab Sample ID: 280-45026-8
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 14:50
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 83.9

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 7800 | 55 | 3.3 | 1.7 | mg/Kg | | | 1 | 6010C |
| Antimony | 0.66 | 2.2 | 0.66 | 0.42 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 5.2 | 2.8 | 1.1 | 0.73 | mg/Kg | | | 1 | 6010C |
| Barium | 35 | 2.2 | 0.20 | 0.084 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.35 | 0.55 | 0.077 | 0.036 | mg/Kg | J | | 1 | 6010C |
| Boron | 2.2 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.76 | 0.55 | 0.11 | 0.045 | mg/Kg | | Q | 1 | 6010C |
| Calcium | 18000 | 110 | 22 | 16 | mg/Kg | | | 1 | 6010C |
| Chromium | 11 | 3.9 | 0.17 | 0.064 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.0 | 1.1 | 0.22 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 33 | 5.5 | 0.55 | 0.24 | mg/Kg | | Q | 1 | 6010C |
| Iron | 18000 | 88 | 5.5 | 4.2 | mg/Kg | | | 1 | 6010C |
| Lead | 39 | 0.99 | 0.88 | 0.30 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3500 | 33 | 5.5 | 4.1 | mg/Kg | | | 1 | 6010C |
| Manganese | 860 | 5.0 | 0.17 | 0.11 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.32 | 2.8 | 0.55 | 0.29 | mg/Kg | J | | 1 | 6010C |
| Nickel | 13 | 4.4 | 0.22 | 0.14 | mg/Kg | | | 1 | 6010C |
| Potassium | 810 | 330 | 55 | 45 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.3 | 1.3 | 0.95 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.22 | 1.7 | 0.22 | 0.18 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 550 | 110 | 65 | mg/Kg | U | | 1 | 6010C |
| Strontium | 41 | 1.7 | 0.088 | 0.040 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.3 | 3.3 | 1.3 | 0.72 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 19 | 2.2 | 0.22 | 0.10 | mg/Kg | | | 1 | 6010C |
| Zinc | 57 | 8.8 | 0.88 | 0.44 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0908AA
Lab Sample ID: 280-45026-9
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:00
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 85.4

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 12000 | 58 | 3.5 | 1.8 | mg/Kg | | Q | 1 | 6010C |
| Antimony | 0.70 | 2.3 | 0.70 | 0.44 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 4.6 | 2.9 | 1.2 | 0.77 | mg/Kg | | | 1 | 6010C |
| Barium | 68 | 2.3 | 0.21 | 0.088 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.48 | 0.58 | 0.081 | 0.038 | mg/Kg | J | | 1 | 6010C |
| Boron | 2.1 | 12 | 1.2 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.52 | 0.58 | 0.12 | 0.048 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 3500 | 120 | 23 | 16 | mg/Kg | | | 1 | 6010C |
| Chromium | 13 | 4.1 | 0.17 | 0.067 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.7 | 1.2 | 0.23 | 0.12 | mg/Kg | | | 1 | 6010C |
| Copper | 23 | 5.8 | 0.58 | 0.25 | mg/Kg | | Q | 1 | 6010C |
| Iron | 22000 | 93 | 5.8 | 4.4 | mg/Kg | | | 1 | 6010C |
| Lead | 16 | 1.0 | 0.93 | 0.31 | mg/Kg | | | 1 | 6010C |
| Magnesium | 2800 | 35 | 5.8 | 4.3 | mg/Kg | | | 1 | 6010C |
| Manganese | 1400 | 26 | 0.87 | 0.58 | mg/Kg | | Q D | 5 | 6010C |
| Molybdenum | 0.68 | 2.9 | 0.58 | 0.30 | mg/Kg | J | | 1 | 6010C |
| Nickel | 14 | 4.6 | 0.23 | 0.14 | mg/Kg | | | 1 | 6010C |
| Potassium | 780 | 350 | 58 | 48 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.4 | 3.5 | 1.4 | 1.0 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.23 | 1.7 | 0.23 | 0.19 | mg/Kg | U | | 1 | 6010C |
| Sodium | 560 | 580 | 120 | 68 | mg/Kg | J | | 1 | 6010C |
| Strontium | 40 | 1.7 | 0.093 | 0.042 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.4 | 3.5 | 1.4 | 0.75 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 24 | 2.3 | 0.23 | 0.11 | mg/Kg | | | 1 | 6010C |
| Zinc | 68 | 9.3 | 0.93 | 0.46 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS0912AA
Lab Sample ID: 280-45026-10
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 15:05
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 92.4

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 10000 | 250 | 15 | 7.6 | mg/Kg | | Q D | 5 | 6010C |
| Antimony | 0.59 | 2.0 | 0.59 | 0.37 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 4.5 | 2.5 | 0.98 | 0.65 | mg/Kg | | | 1 | 6010C |
| Barium | 42 | 9.8 | 0.89 | 0.37 | mg/Kg | | D | 5 | 6010C |
| Beryllium | 0.42 | 2.5 | 0.34 | 0.16 | mg/Kg | J | D | 5 | 6010C |
| Boron | 1.5 | 9.8 | 0.98 | 0.96 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.19 | 0.49 | 0.098 | 0.040 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 5200 | 490 | 98 | 69 | mg/Kg | | D | 5 | 6010C |
| Chromium | 11 | 3.4 | 0.15 | 0.057 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 5.3 | 0.98 | 0.20 | 0.098 | mg/Kg | | | 1 | 6010C |
| Copper | 47 | 4.9 | 0.49 | 0.21 | mg/Kg | | Q | 1 | 6010C |
| Iron | 25000 | 390 | 25 | 19 | mg/Kg | | D | 5 | 6010C |
| Lead | 5.5 | 0.89 | 0.79 | 0.27 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3200 | 30 | 4.9 | 3.6 | mg/Kg | | | 1 | 6010C |
| Manganese | 1300 | 22 | 0.74 | 0.49 | mg/Kg | | Q D | 5 | 6010C |
| Molybdenum | 0.34 | 2.5 | 0.49 | 0.26 | mg/Kg | J | | 1 | 6010C |
| Nickel | 13 | 3.9 | 0.20 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 860 | 1500 | 250 | 200 | mg/Kg | J | D | 5 | 6010C |
| Selenium | 1.2 | 3.0 | 1.2 | 0.85 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.20 | 1.5 | 0.20 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 490 | 2500 | 490 | 290 | mg/Kg | U | | 5 | 6010C |
| Strontium | 10 | 7.4 | 0.39 | 0.18 | mg/Kg | | Q D | 5 | 6010C |
| Thallium | 1.2 | 3.0 | 1.2 | 0.64 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 17 | 2.0 | 0.20 | 0.093 | mg/Kg | | | 1 | 6010C |
| Zinc | 45 | 7.9 | 0.79 | 0.39 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS1104AA
Lab Sample ID: 280-45026-14
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 13:45
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 92.0

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 6900 | 46 | 2.7 | 1.4 | mg/Kg | | Q | 1 | 6010C |
| Antimony | 0.55 | 1.8 | 0.55 | 0.35 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 3.5 | 2.3 | 0.91 | 0.60 | mg/Kg | | | 1 | 6010C |
| Barium | 23 | 1.8 | 0.16 | 0.069 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.34 | 0.46 | 0.064 | 0.030 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.8 | 9.1 | 0.91 | 0.89 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.22 | 0.46 | 0.091 | 0.037 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 1800 | 91 | 18 | 13 | mg/Kg | | | 1 | 6010C |
| Chromium | 9.5 | 3.2 | 0.14 | 0.053 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 5.3 | 0.91 | 0.18 | 0.091 | mg/Kg | | | 1 | 6010C |
| Copper | 29 | 4.6 | 0.46 | 0.20 | mg/Kg | | Q | 1 | 6010C |
| Iron | 16000 | 73 | 4.6 | 3.5 | mg/Kg | | | 1 | 6010C |
| Lead | 8.7 | 0.82 | 0.73 | 0.25 | mg/Kg | | | 1 | 6010C |
| Magnesium | 2800 | 27 | 4.6 | 3.4 | mg/Kg | | | 1 | 6010C |
| Manganese | 510 | 4.1 | 0.14 | 0.091 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.40 | 2.3 | 0.46 | 0.24 | mg/Kg | J | | 1 | 6010C |
| Nickel | 13 | 3.7 | 0.18 | 0.11 | mg/Kg | | | 1 | 6010C |
| Potassium | 830 | 270 | 46 | 37 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.1 | 2.7 | 1.1 | 0.79 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.18 | 1.4 | 0.18 | 0.15 | mg/Kg | U | | 1 | 6010C |
| Sodium | 70 | 460 | 91 | 54 | mg/Kg | J | | 1 | 6010C |
| Strontium | 5.6 | 1.4 | 0.073 | 0.033 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.1 | 2.7 | 1.1 | 0.59 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 14 | 1.8 | 0.18 | 0.086 | mg/Kg | | | 1 | 6010C |
| Zinc | 46 | 7.3 | 0.73 | 0.36 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS1108AA
Lab Sample ID: 280-45026-15
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 13:47
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 85.2

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9100 | 54 | 3.3 | 1.7 | mg/Kg | | Q | 1 | 6010C |
| Antimony | 0.65 | 2.2 | 0.65 | 0.41 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 5.4 | 2.7 | 1.1 | 0.72 | mg/Kg | | | 1 | 6010C |
| Barium | 47 | 2.2 | 0.20 | 0.083 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.47 | 0.54 | 0.076 | 0.036 | mg/Kg | J | | 1 | 6010C |
| Boron | 2.9 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.44 | 0.54 | 0.11 | 0.045 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 8400 | 110 | 22 | 15 | mg/Kg | | | 1 | 6010C |
| Chromium | 17 | 3.8 | 0.16 | 0.063 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 7.6 | 1.1 | 0.22 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 63 | 5.4 | 0.54 | 0.24 | mg/Kg | | Q | 1 | 6010C |
| Iron | 20000 | 87 | 5.4 | 4.1 | mg/Kg | | | 1 | 6010C |
| Lead | 18 | 0.98 | 0.87 | 0.29 | mg/Kg | | | 1 | 6010C |
| Magnesium | 4000 | 33 | 5.4 | 4.0 | mg/Kg | | | 1 | 6010C |
| Manganese | 620 | 4.9 | 0.16 | 0.11 | mg/Kg | | Q | 1 | 6010C |
| Molybdenum | 0.91 | 2.7 | 0.54 | 0.28 | mg/Kg | J | | 1 | 6010C |
| Nickel | 18 | 4.3 | 0.22 | 0.13 | mg/Kg | | | 1 | 6010C |
| Potassium | 1100 | 330 | 54 | 45 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.3 | 1.3 | 0.93 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.22 | 1.6 | 0.22 | 0.17 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 540 | 110 | 64 | mg/Kg | U | | 1 | 6010C |
| Strontium | 32 | 1.6 | 0.087 | 0.039 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.3 | 3.3 | 1.3 | 0.71 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 2.2 | 0.22 | 0.10 | mg/Kg | | | 1 | 6010C |
| Zinc | 67 | 8.7 | 0.87 | 0.43 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS1112AA
Lab Sample ID: 280-45026-16
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 13:59
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 88.1

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 8700 | 56 | 3.4 | 1.7 | mg/Kg | | Q | 1 | 6010C |
| Antimony | 0.67 | 2.2 | 0.67 | 0.43 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 5.3 | 2.8 | 1.1 | 0.74 | mg/Kg | | | 1 | 6010C |
| Barium | 43 | 2.2 | 0.20 | 0.085 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.38 | 0.56 | 0.079 | 0.037 | mg/Kg | J | | 1 | 6010C |
| Boron | 2.1 | 11 | 1.1 | 1.1 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.20 | 0.56 | 0.11 | 0.046 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 2500 | 110 | 22 | 16 | mg/Kg | | | 1 | 6010C |
| Chromium | 14 | 3.9 | 0.17 | 0.065 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 7.5 | 1.1 | 0.22 | 0.11 | mg/Kg | | | 1 | 6010C |
| Copper | 62 | 5.6 | 0.56 | 0.24 | mg/Kg | | Q | 1 | 6010C |
| Iron | 22000 | 90 | 5.6 | 4.3 | mg/Kg | | | 1 | 6010C |
| Lead | 5.8 | 1.0 | 0.90 | 0.30 | mg/Kg | | | 1 | 6010C |
| Magnesium | 3900 | 34 | 5.6 | 4.2 | mg/Kg | | | 1 | 6010C |
| Manganese | 1500 | 25 | 0.84 | 0.56 | mg/Kg | | Q D | 5 | 6010C |
| Molybdenum | 0.60 | 2.8 | 0.56 | 0.29 | mg/Kg | J | | 1 | 6010C |
| Nickel | 15 | 4.5 | 0.22 | 0.14 | mg/Kg | | | 1 | 6010C |
| Potassium | 930 | 340 | 56 | 46 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.3 | 3.4 | 1.3 | 0.97 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.22 | 1.7 | 0.22 | 0.18 | mg/Kg | U | | 1 | 6010C |
| Sodium | 110 | 560 | 110 | 66 | mg/Kg | U | | 1 | 6010C |
| Strontium | 7.6 | 1.7 | 0.090 | 0.040 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.3 | 3.4 | 1.3 | 0.73 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 2.2 | 0.22 | 0.11 | mg/Kg | | | 1 | 6010C |
| Zinc | 86 | 9.0 | 0.90 | 0.45 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B255SCS1116AA
Lab Sample ID: 280-45026-17
Lab Name: TestAmerica Denver
Job No.: 280-45026-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/29/2013 14:30
Reporting Basis: DRY
Date Received: 08/01/2013 09:30
% Solids: 88.6

| Analyte | Result | LOQ | LOD | DL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 8300 | 49 | 2.9 | 1.5 | mg/Kg | | Q | 1 | 6010C |
| Antimony | 0.58 | 1.9 | 0.58 | 0.37 | mg/Kg | U | | 1 | 6010C |
| Arsenic | 4.8 | 2.4 | 0.97 | 0.64 | mg/Kg | | | 1 | 6010C |
| Barium | 39 | 1.9 | 0.18 | 0.074 | mg/Kg | | | 1 | 6010C |
| Beryllium | 0.36 | 0.49 | 0.068 | 0.032 | mg/Kg | J | | 1 | 6010C |
| Boron | 1.9 | 9.7 | 0.97 | 0.95 | mg/Kg | J | | 1 | 6010C |
| Cadmium | 0.21 | 0.49 | 0.097 | 0.040 | mg/Kg | J | Q | 1 | 6010C |
| Calcium | 6500 | 97 | 19 | 14 | mg/Kg | | | 1 | 6010C |
| Chromium | 24 | 3.4 | 0.15 | 0.056 | mg/Kg | | Q | 1 | 6010C |
| Cobalt | 6.7 | 0.97 | 0.19 | 0.097 | mg/Kg | | | 1 | 6010C |
| Copper | 35 | 4.9 | 0.49 | 0.21 | mg/Kg | | Q | 1 | 6010C |
| Iron | 20000 | 78 | 4.9 | 3.7 | mg/Kg | | | 1 | 6010C |
| Lead | 7.1 | 0.88 | 0.78 | 0.26 | mg/Kg | | | 1 | 6010C |
| Magnesium | 4000 | 29 | 4.9 | 3.6 | mg/Kg | | | 1 | 6010C |
| Manganese | 1300 | 22 | 0.73 | 0.49 | mg/Kg | | Q D | 5 | 6010C |
| Molybdenum | 0.76 | 2.4 | 0.49 | 0.25 | mg/Kg | J | | 1 | 6010C |
| Nickel | 15 | 3.9 | 0.19 | 0.12 | mg/Kg | | | 1 | 6010C |
| Potassium | 880 | 290 | 49 | 40 | mg/Kg | | | 1 | 6010C |
| Selenium | 1.2 | 2.9 | 1.2 | 0.84 | mg/Kg | U | | 1 | 6010C |
| Silver | 0.19 | 1.5 | 0.19 | 0.16 | mg/Kg | U | | 1 | 6010C |
| Sodium | 97 | 490 | 97 | 57 | mg/Kg | U | | 1 | 6010C |
| Strontium | 15 | 1.5 | 0.078 | 0.035 | mg/Kg | | Q | 1 | 6010C |
| Thallium | 1.2 | 2.9 | 1.2 | 0.63 | mg/Kg | U | | 1 | 6010C |
| Vanadium | 16 | 1.9 | 0.19 | 0.092 | mg/Kg | | | 1 | 6010C |
| Zinc | 50 | 7.8 | 0.78 | 0.39 | mg/Kg | | | 1 | 6010C |

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVH_00115  Concentration Units: ug/L

CCV Source: ICP CCVH_00273

| Analyte | ICVH 280-187287/6 08/14/2013 14:25 | | | | CCVH 280-187287/21 08/15/2013 00:27 | | | | CCVH 280-187287/35 08/15/2013 01:00 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 39000 | | 40000 | 97 | 50500 | | 50000 | 101 | 50000 | | 50000 | 100 |
| **Iron** | 77600 | | 80000 | 97 | 48800 | | 50000 | 98 | 48700 | | 50000 | 97 |
| **Sodium** | 40200 | | 40000 | 101 | 248000 | | 250000 | 99 | 248000 | | 250000 | 99 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVH_00115  Concentration Units: ug/L

CCV Source: ICP CCVH_00273

| Analyte | CCVH 280-187287/47 08/15/2013 01:28 | | | | CCVH 280-187287/58 08/15/2013 01:53 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 50300 | | 50000 | 101 | 50100 | | 50000 | 100 | | | | |
| **Iron** | 49100 | | 50000 | 98 | 48600 | | 50000 | 97 | | | | |
| **Sodium** | 249000 | | 250000 | 100 | 249000 | | 250000 | 100 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVL_00094  Concentration Units: ug/L

CCV Source: ICP CCVL_00324

| Analyte | ICV 280-187287/7 08/14/2013 14:31 | | | | CCV 280-187287/22 08/15/2013 00:30 | | | | CCV 280-187287/36 08/15/2013 01:02 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 263 | | 250 | 105 | 543 | | 500 | 109 | 535 | | 500 | 107 |
| **Antimony** | 251 | | 250 | 101 | 1030 | | 1000 | 103 | 1030 | | 1000 | 103 |
| **Arsenic** | 252 | | 250 | 101 | 976 | | 1000 | 98 | 985 | | 1000 | 99 |
| **Barium** | 249 | | 250 | 100 | 475 | | 500 | 95 | 479 | | 500 | 96 |
| **Beryllium** | 243 | | 250 | 97 | 493 | | 500 | 99 | 495 | | 500 | 99 |
| **Calcium** | 2030 | | 2000 | 102 | 4960 | | 5000 | 99 | 4970 | | 5000 | 99 |
| **Iron** | 253 | | 250 | 101 | 2490 | | 2500 | 100 | 2500 | | 2500 | 100 |
| **Potassium** | 20300 | | 20000 | 102 | 49400 | | 50000 | 99 | 49600 | | 50000 | 99 |
| **Sodium** | 2100 | | 2000 | 105 | 5230 | | 5000 | 105 | 5230 | | 5000 | 105 |
| **Strontium** | 250 | | 250 | 100 | 501 | | 500 | 100 | 506 | | 500 | 101 |
| *Boron* | 252 | | 250 | 101 | 498 | | 500 | 100 | 501 | | 500 | 100 |
| *Cadmium* | 250 | | 250 | 100 | 505 | | 500 | 101 | 506 | | 500 | 101 |
| *Chromium* | 255 | | 250 | 102 | 494 | | 500 | 99 | 496 | | 500 | 99 |
| *Cobalt* | 254 | | 250 | 102 | 512 | | 500 | 102 | 514 | | 500 | 103 |
| *Copper* | 254 | | 250 | 102 | 513 | | 500 | 103 | 512 | | 500 | 102 |
| *Lead* | 259 | | 250 | 104 | 1010 | | 1000 | 101 | 1020 | | 1000 | 102 |
| *Magnesium* | 9880 | | 10000 | 99 | 19500 | | 20000 | 97 | 19500 | | 20000 | 98 |
| *Manganese* | 252 | | 250 | 101 | 510 | | 500 | 102 | 511 | | 500 | 102 |
| *Molybdenum* | 250 | | 250 | 100 | 487 | | 500 | 97 | 490 | | 500 | 98 |
| *Nickel* | 255 | | 250 | 102 | 499 | | 500 | 100 | 502 | | 500 | 100 |
| *Selenium* | 489 | | 500 | 98 | 997 | | 1000 | 100 | 999 | | 1000 | 100 |
| *Silver* | 253 | | 250 | 101 | 501 | | 500 | 100 | 502 | | 500 | 100 |
| *Thallium* | 521 | | 500 | 104 | 1040 | | 1000 | 104 | 1040 | | 1000 | 104 |
| *Vanadium* | 249 | | 250 | 99 | 505 | | 500 | 101 | 504 | | 500 | 101 |
| *Zinc* | 247 | | 250 | 99 | 495 | | 500 | 99 | 492 | | 500 | 98 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVL_00094 Concentration Units: ug/L

CCV Source: ICP CCVL_00324

| Analyte | CCV 280-187287/48 08/15/2013 01:30 | | | | CCV 280-187287/59 08/15/2013 01:55 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | | | | | 531 | | 500 | 106 | | | | |
| **Antimony** | 1040 | | 1000 | 104 | 1040 | | 1000 | 104 | | | | |
| **Arsenic** | 988 | | 1000 | 99 | 986 | | 1000 | 99 | | | | |
| **Barium** | 485 | | 500 | 97 | 478 | | 500 | 96 | | | | |
| **Beryllium** | 500 | | 500 | 100 | 496 | | 500 | 99 | | | | |
| **Calcium** | 4990 | | 5000 | 100 | 4960 | | 5000 | 99 | | | | |
| **Iron** | 2530 | | 2500 | 101 | 2510 | | 2500 | 100 | | | | |
| **Potassium** | 49700 | | 50000 | 99 | 49500 | | 50000 | 99 | | | | |
| **Sodium** | 5270 | | 5000 | 105 | 5240 | | 5000 | 105 | | | | |
| **Strontium** | 506 | | 500 | 101 | 505 | | 500 | 101 | | | | |
| *Boron* | 506 | | 500 | 101 | 501 | | 500 | 100 | | | | |
| *Cadmium* | 510 | | 500 | 102 | 508 | | 500 | 102 | | | | |
| *Chromium* | 498 | | 500 | 100 | 495 | | 500 | 99 | | | | |
| *Cobalt* | 512 | | 500 | 102 | 514 | | 500 | 103 | | | | |
| *Copper* | 512 | | 500 | 102 | 513 | | 500 | 103 | | | | |
| *Lead* | 1020 | | 1000 | 102 | 1020 | | 1000 | 102 | | | | |
| *Magnesium* | 19300 | | 20000 | 96 | 19300 | | 20000 | 97 | | | | |
| *Manganese* | 504 | | 500 | 101 | 509 | | 500 | 102 | | | | |
| *Molybdenum* | 494 | | 500 | 99 | 490 | | 500 | 98 | | | | |
| *Nickel* | 503 | | 500 | 101 | 501 | | 500 | 100 | | | | |
| *Selenium* | 1000 | | 1000 | 100 | 999 | | 1000 | 100 | | | | |
| *Silver* | 499 | | 500 | 100 | 501 | | 500 | 100 | | | | |
| *Thallium* | 1040 | | 1000 | 104 | 1040 | | 1000 | 104 | | | | |
| *Vanadium* | 503 | | 500 | 101 | 504 | | 500 | 101 | | | | |
| *Zinc* | 486 | | 500 | 97 | 488 | | 500 | 98 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP LLCCV_00944  Concentration Units: ug/L

CCV Source: ICP LLCCV_00944

| Analyte | ICVL 280-187287/8 08/14/2013 14:34 | | | | CCVL 280-187287/24 08/15/2013 00:34 | | | | CCVL 280-187287/38 08/15/2013 01:07 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 106 | | 100 | 106 | 124 | | 100 | 124 | 111 | | 100 | 111 |
| **Antimony** | 8.26 | J | 10.0 | 83 | 11.7 | | 10.0 | 117 | 10.7 | | 10.0 | 107 |
| **Arsenic** | 16.0 | | 15.0 | 106 | 17.7 | | 15.0 | 118 | 16.0 | | 15.0 | 106 |
| **Barium** | 9.85 | J | 10.0 | 99 | 9.62 | J | 10.0 | 96 | 9.80 | J | 10.0 | 98 |
| **Beryllium** | 0.950 | J | 1.00 | 95 | 1.00 | | 1.00 | 100 | 0.970 | J | 1.00 | 97 |
| **Calcium** | 204 | | 200 | 102 | 207 | | 200 | 104 | 205 | | 200 | 103 |
| **Iron** | 102 | | 100 | 102 | 114 | | 100 | 114 | 105 | | 100 | 105 |
| **Potassium** | 3050 | | 3000 | 102 | 3210 | | 3000 | 107 | 3220 | | 3000 | 107 |
| **Sodium** | 1070 | | 1000 | 107 | 1160 | | 1000 | 116 | 1140 | | 1000 | 114 |
| **Strontium** | 10.0 | | 10.0 | 100 | 10.4 | | 10.0 | 104 | 10.4 | | 10.0 | 104 |
| *Boron* | 94.9 | J | 100 | 95 | 98.4 | J | 100 | 98 | 95.6 | J | 100 | 96 |
| *Cadmium* | 5.03 | | 5.00 | 101 | 5.17 | | 5.00 | 103 | 5.05 | | 5.00 | 101 |
| *Chromium* | 10.4 | | 10.0 | 104 | 10.4 | | 10.0 | 104 | 10.2 | | 10.0 | 102 |
| *Cobalt* | 10.8 | | 10.0 | 108 | 11.0 | | 10.0 | 110 | 10.9 | | 10.0 | 109 |
| *Copper* | 16.6 | | 15.0 | 110 | 15.4 | | 15.0 | 103 | 15.0 | | 15.0 | 100 |
| *Lead* | 9.15 | | 9.00 | 102 | 10.7 | | 9.00 | 119 | 8.22 | J | 9.00 | 91 |
| *Magnesium* | 216 | | 200 | 108 | 211 | | 200 | 105 | 204 | | 200 | 102 |
| *Manganese* | 11.0 | | 10.0 | 110 | 11.0 | | 10.0 | 110 | 10.6 | | 10.0 | 106 |
| *Molybdenum* | 19.9 | J | 20.0 | 99 | 19.6 | J | 20.0 | 98 | 19.8 | J | 20.0 | 99 |
| *Nickel* | 42.0 | | 40.0 | 105 | 41.9 | | 40.0 | 105 | 41.3 | | 40.0 | 103 |
| *Selenium* | 17.3 | | 15.0 | 115 | 17.5 | | 15.0 | 116 | 16.6 | | 15.0 | 111 |
| *Silver* | 10.7 | | 10.0 | 107 | 10.7 | | 10.0 | 107 | 10.1 | | 10.0 | 101 |
| *Thallium* | 15.3 | | 15.0 | 102 | 15.6 | | 15.0 | 104 | 15.0 | | 15.0 | 100 |
| *Vanadium* | 11.2 | | 10.0 | 112 | 10.7 | | 10.0 | 107 | 10.7 | | 10.0 | 107 |
| *Zinc* | 21.9 | | 20.0 | 110 | 21.5 | | 20.0 | 107 | 21.2 | | 20.0 | 106 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

ICV Source: ICP LLCCV_00944 Concentration Units: ug/L

CCV Source: ICP LLCCV_00944

| Analyte | CCVL 280-187287/50 08/15/2013 01:34 | | | | CCVL 280-187287/61 08/15/2013 02:00 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 110 | | 100 | 110 | 118 | | 100 | 118 | | | | |
| **Antimony** | 9.95 | J | 10.0 | 100 | 9.39 | J | 10.0 | 94 | | | | |
| **Arsenic** | 14.7 | J | 15.0 | 98 | 15.2 | | 15.0 | 101 | | | | |
| **Barium** | 9.83 | J | 10.0 | 98 | 9.70 | J | 10.0 | 97 | | | | |
| **Beryllium** | 0.960 | J | 1.00 | 96 | 0.980 | J | 1.00 | 98 | | | | |
| **Calcium** | 204 | | 200 | 102 | 208 | | 200 | 104 | | | | |
| **Iron** | 107 | | 100 | 107 | 121 | | 100 | 121 | | | | |
| **Potassium** | 3110 | | 3000 | 104 | 3110 | | 3000 | 104 | | | | |
| **Sodium** | 1120 | | 1000 | 112 | 1150 | | 1000 | 115 | | | | |
| **Strontium** | 10.3 | | 10.0 | 103 | 10.5 | | 10.0 | 105 | | | | |
| *Boron* | 95.8 | J | 100 | 96 | 94.9 | J | 100 | 95 | | | | |
| *Cadmium* | 5.08 | | 5.00 | 102 | 5.12 | | 5.00 | 102 | | | | |
| *Chromium* | 10.4 | | 10.0 | 104 | 10.1 | | 10.0 | 101 | | | | |
| *Cobalt* | 10.8 | | 10.0 | 108 | 10.9 | | 10.0 | 109 | | | | |
| *Copper* | 15.1 | | 15.0 | 101 | 14.5 | J | 15.0 | 97 | | | | |
| *Lead* | 9.31 | | 9.00 | 103 | 9.21 | | 9.00 | 102 | | | | |
| *Magnesium* | 197 | J | 200 | 99 | 202 | | 200 | 101 | | | | |
| *Manganese* | 10.4 | | 10.0 | 104 | 11.4 | | 10.0 | 114 | | | | |
| *Molybdenum* | 19.5 | J | 20.0 | 98 | 19.1 | J | 20.0 | 95 | | | | |
| *Nickel* | 41.9 | | 40.0 | 105 | 41.1 | | 40.0 | 103 | | | | |
| *Selenium* | 17.1 | | 15.0 | 114 | 15.8 | | 15.0 | 106 | | | | |
| *Silver* | 10.2 | | 10.0 | 102 | 9.94 | J | 10.0 | 99 | | | | |
| *Thallium* | 14.7 | J | 15.0 | 98 | 14.7 | J | 15.0 | 98 | | | | |
| *Vanadium* | 10.3 | | 10.0 | 103 | 10.6 | | 10.0 | 106 | | | | |
| *Zinc* | 21.2 | | 20.0 | 106 | 22.8 | | 20.0 | 114 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVH_00116  Concentration Units: ug/L

CCV Source: ICP CCVH_00273

| Analyte | ICVH 280-187483/6 08/15/2013 14:29 | | | | CCVH 280-187483/36 08/15/2013 17:26 | | | | CCVH 280-187483/50 08/15/2013 17:58 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 38200 | | 40000 | 95 | 50200 | | 50000 | 100 | 50000 | | 50000 | 100 |
| **Iron** | 76600 | | 80000 | 96 | 50000 | | 50000 | 100 | 50300 | | 50000 | 101 |
| **Sodium** | 39300 | | 40000 | 98 | 254000 | | 250000 | 102 | 253000 | | 250000 | 101 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVH_00116  Concentration Units: ug/L

CCV Source: ICP CCVH_00273

| Analyte | CCVH 280-187483/64 08/15/2013 18:30 | | | | CCVH 280-187483/78 08/15/2013 19:02 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 50400 | | 50000 | 101 | 50000 | | 50000 | 100 | | | | |
| **Iron** | 49800 | | 50000 | 100 | 50000 | | 50000 | 100 | | | | |
| **Sodium** | 254000 | | 250000 | 102 | 253000 | | 250000 | 101 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVL_00094  Concentration Units: ug/L

CCV Source: ICP CCVL_00325

| Analyte | ICV 280-187483/7 08/15/2013 14:33 | | | | CCV 280-187483/37 08/15/2013 17:28 | | | | CCV 280-187483/51 08/15/2013 18:00 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 261 | | 250 | 104 | 508 | | 500 | 102 | 511 | | 500 | 102 |
| **Barium** | 247 | | 250 | 99 | 506 | | 500 | 101 | 503 | | 500 | 101 |
| **Beryllium** | 242 | | 250 | 97 | 501 | | 500 | 100 | 499 | | 500 | 100 |
| **Boron** | 246 | | 250 | 98 | 512 | | 500 | 102 | 510 | | 500 | 102 |
| **Cadmium** | 249 | | 250 | 100 | 508 | | 500 | 102 | 508 | | 500 | 102 |
| **Calcium** | 2010 | | 2000 | 101 | 5040 | | 5000 | 101 | 5030 | | 5000 | 101 |
| **Chromium** | 252 | | 250 | 101 | 502 | | 500 | 100 | 502 | | 500 | 100 |
| **Cobalt** | 253 | | 250 | 101 | 504 | | 500 | 101 | 506 | | 500 | 101 |
| **Copper** | 250 | | 250 | 100 | 501 | | 500 | 100 | 502 | | 500 | 100 |
| **Iron** | 249 | | 250 | 100 | 2550 | | 2500 | 102 | 2530 | | 2500 | 101 |
| **Lead** | 254 | | 250 | 102 | 1020 | | 1000 | 102 | 1020 | | 1000 | 102 |
| **Magnesium** | 9730 | | 10000 | 97 | 19400 | | 20000 | 97 | 19500 | | 20000 | 97 |
| **Manganese** | 250 | | 250 | 100 | 490 | | 500 | 98 | 493 | | 500 | 99 |
| **Molybdenum** | 248 | | 250 | 99 | 505 | | 500 | 101 | 504 | | 500 | 101 |
| **Nickel** | 252 | | 250 | 101 | 506 | | 500 | 101 | 506 | | 500 | 101 |
| **Potassium** | 20000 | | 20000 | 100 | 50200 | | 50000 | 100 | 50100 | | 50000 | 100 |
| **Selenium** | 479 | | 500 | 96 | 1010 | | 1000 | 101 | 1010 | | 1000 | 101 |
| **Silver** | 247 | | 250 | 99 | 496 | | 500 | 99 | 497 | | 500 | 99 |
| **Sodium** | 2050 | | 2000 | 103 | 5220 | | 5000 | 104 | 5120 | | 5000 | 102 |
| **Strontium** | 249 | | 250 | 100 | 499 | | 500 | 100 | 499 | | 500 | 100 |
| **Thallium** | 514 | | 500 | 103 | 1030 | | 1000 | 103 | 1040 | | 1000 | 104 |
| **Vanadium** | 246 | | 250 | 98 | 497 | | 500 | 99 | 499 | | 500 | 100 |
| **Zinc** | 245 | | 250 | 98 | 490 | | 500 | 98 | 492 | | 500 | 98 |
| *Antimony* | 247 | | 250 | 99 | 1010 | | 1000 | 101 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

ICV Source: ICP ICVL_00094 Concentration Units: ug/L

CCV Source: ICP CCVL_00325

| Analyte | CCV 280-187483/65 08/15/2013 18:32 | | | | CCV 280-187483/79 08/15/2013 19:04 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 516 | | 500 | 103 | 517 | | 500 | 103 | | | | |
| **Barium** | 504 | | 500 | 101 | 508 | | 500 | 102 | | | | |
| **Beryllium** | 500 | | 500 | 100 | 501 | | 500 | 100 | | | | |
| **Boron** | 508 | | 500 | 102 | 511 | | 500 | 102 | | | | |
| **Cadmium** | 510 | | 500 | 102 | 510 | | 500 | 102 | | | | |
| **Calcium** | 5050 | | 5000 | 101 | 5070 | | 5000 | 101 | | | | |
| **Chromium** | 504 | | 500 | 101 | 507 | | 500 | 101 | | | | |
| **Cobalt** | 510 | | 500 | 102 | 509 | | 500 | 102 | | | | |
| **Copper** | 505 | | 500 | 101 | 504 | | 500 | 101 | | | | |
| **Iron** | 2540 | | 2500 | 102 | 2550 | | 2500 | 102 | | | | |
| **Lead** | 1020 | | 1000 | 102 | 1020 | | 1000 | 102 | | | | |
| **Magnesium** | 19500 | | 20000 | 98 | 19600 | | 20000 | 98 | | | | |
| **Manganese** | 497 | | 500 | 99 | 495 | | 500 | 99 | | | | |
| **Molybdenum** | 505 | | 500 | 101 | 508 | | 500 | 102 | | | | |
| **Nickel** | 509 | | 500 | 102 | 511 | | 500 | 102 | | | | |
| **Potassium** | 50200 | | 50000 | 100 | 50400 | | 50000 | 101 | | | | |
| **Selenium** | 1020 | | 1000 | 102 | 1020 | | 1000 | 102 | | | | |
| **Silver** | 498 | | 500 | 100 | 499 | | 500 | 100 | | | | |
| **Sodium** | 5160 | | 5000 | 103 | 5150 | | 5000 | 103 | | | | |
| **Strontium** | 502 | | 500 | 100 | 503 | | 500 | 101 | | | | |
| **Thallium** | 1050 | | 1000 | 105 | 1040 | | 1000 | 104 | | | | |
| **Vanadium** | 502 | | 500 | 100 | 501 | | 500 | 100 | | | | |
| **Zinc** | 495 | | 500 | 99 | 497 | | 500 | 99 | | | | |
| *Antimony* | | | | | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

ICV Source: ICP LLCCV_00945  Concentration Units: ug/L

CCV Source: ICP LLCCV_00945

| Analyte | ICVL 280-187483/8 08/15/2013 14:36 | | | | CCVL 280-187483/39 08/15/2013 17:32 | | | | CCVL 280-187483/53 08/15/2013 18:04 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 105 | | 100 | 105 | 106 | | 100 | 106 | 105 | | 100 | 105 |
| **Barium** | 10.5 | | 10.0 | 105 | 10.4 | | 10.0 | 104 | 10.5 | | 10.0 | 105 |
| **Beryllium** | 0.920 | J | 1.00 | 92 | 0.930 | J | 1.00 | 93 | 0.930 | J | 1.00 | 93 |
| **Boron** | 92.9 | J | 100 | 93 | 95.2 | J | 100 | 95 | 94.2 | J | 100 | 94 |
| **Cadmium** | 4.94 | J | 5.00 | 99 | 5.33 | | 5.00 | 107 | 5.29 | | 5.00 | 106 |
| **Calcium** | 204 | | 200 | 102 | 207 | | 200 | 103 | 204 | | 200 | 102 |
| **Chromium** | 10.3 | | 10.0 | 103 | 10.2 | | 10.0 | 102 | 10.3 | | 10.0 | 103 |
| **Cobalt** | 10.4 | | 10.0 | 104 | 10.3 | | 10.0 | 103 | 10.3 | | 10.0 | 103 |
| **Copper** | 14.9 | J | 15.0 | 99 | 15.6 | | 15.0 | 104 | 14.8 | J | 15.0 | 99 |
| **Iron** | 102 | | 100 | 102 | 102 | | 100 | 102 | 103 | | 100 | 103 |
| **Lead** | 7.45 | J | 9.00 | 83 | 8.48 | J | 9.00 | 94 | 7.58 | J | 9.00 | 84 |
| **Magnesium** | 201 | | 200 | 100 | 200 | | 200 | 100 | 200 | | 200 | 100 |
| **Manganese** | 10.1 | | 10.0 | 101 | 10.1 | | 10.0 | 101 | 10.1 | | 10.0 | 101 |
| **Molybdenum** | 19.5 | J | 20.0 | 98 | 19.8 | J | 20.0 | 99 | 19.8 | J | 20.0 | 99 |
| **Nickel** | 41.0 | | 40.0 | 102 | 41.2 | | 40.0 | 103 | 41.1 | | 40.0 | 103 |
| **Potassium** | 3020 | | 3000 | 101 | 3090 | | 3000 | 103 | 3130 | | 3000 | 104 |
| **Selenium** | 15.8 | | 15.0 | 106 | 15.8 | | 15.0 | 105 | 14.8 | J | 15.0 | 98 |
| **Silver** | 10.8 | | 10.0 | 108 | 10.5 | | 10.0 | 105 | 10.4 | | 10.0 | 104 |
| **Sodium** | 1060 | | 1000 | 106 | 1140 | | 1000 | 114 | 1090 | | 1000 | 109 |
| **Strontium** | 10.1 | | 10.0 | 101 | 10.1 | | 10.0 | 101 | 10.0 | | 10.0 | 100 |
| **Thallium** | 15.9 | | 15.0 | 106 | 16.5 | | 15.0 | 110 | 15.9 | | 15.0 | 106 |
| **Vanadium** | 9.46 | J | 10.0 | 95 | 9.83 | J | 10.0 | 98 | 9.46 | J | 10.0 | 95 |
| **Zinc** | 20.6 | | 20.0 | 103 | 20.7 | | 20.0 | 103 | 21.3 | | 20.0 | 107 |
| *Antimony* | 8.06 | J | 10.0 | 81 | 7.54 | J | 10.0 | 75 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

ICV Source: ICP LLCCV_00945 Concentration Units: ug/L

CCV Source: ICP LLCCV_00945

| Analyte | CCVL 280-187483/67 08/15/2013 18:36 | | | | CCVL 280-187483/81 08/15/2013 19:09 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 105 | | 100 | 105 | 137 | | 100 | 137 | | | | |
| **Barium** | 10.6 | | 10.0 | 106 | 10.3 | | 10.0 | 103 | | | | |
| **Beryllium** | 1.00 | | 1.00 | 100 | 0.970 | J | 1.00 | 97 | | | | |
| **Boron** | 93.6 | J | 100 | 94 | 94.2 | J | 100 | 94 | | | | |
| **Cadmium** | 5.13 | | 5.00 | 103 | 5.23 | | 5.00 | 105 | | | | |
| **Calcium** | 205 | | 200 | 102 | 211 | | 200 | 106 | | | | |
| **Chromium** | 10.2 | | 10.0 | 102 | 10.2 | | 10.0 | 102 | | | | |
| **Cobalt** | 10.3 | | 10.0 | 103 | 10.5 | | 10.0 | 105 | | | | |
| **Copper** | 14.7 | J | 15.0 | 98 | 15.2 | | 15.0 | 101 | | | | |
| **Iron** | 107 | | 100 | 107 | 102 | | 100 | 102 | | | | |
| **Lead** | 8.03 | J | 9.00 | 89 | 8.53 | J | 9.00 | 95 | | | | |
| **Magnesium** | 200 | | 200 | 100 | 201 | | 200 | 100 | | | | |
| **Manganese** | 10.0 | | 10.0 | 100 | 10.1 | | 10.0 | 101 | | | | |
| **Molybdenum** | 19.7 | J | 20.0 | 99 | 19.7 | J | 20.0 | 98 | | | | |
| **Nickel** | 41.5 | | 40.0 | 104 | 41.7 | | 40.0 | 104 | | | | |
| **Potassium** | 3110 | | 3000 | 104 | 3130 | | 3000 | 104 | | | | |
| **Selenium** | 13.0 | J | 15.0 | 87 | 12.9 | J | 15.0 | 86 | | | | |
| **Silver** | 9.94 | J | 10.0 | 99 | 10.4 | | 10.0 | 104 | | | | |
| **Sodium** | 1090 | | 1000 | 109 | 1090 | | 1000 | 109 | | | | |
| **Strontium** | 10.2 | | 10.0 | 102 | 10.3 | | 10.0 | 103 | | | | |
| **Thallium** | 15.8 | | 15.0 | 105 | 15.4 | | 15.0 | 103 | | | | |
| **Vanadium** | 9.75 | J | 10.0 | 98 | 9.68 | J | 10.0 | 97 | | | | |
| **Zinc** | 21.0 | | 20.0 | 105 | 21.0 | | 20.0 | 105 | | | | |
| *Antimony* | | | | | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Method: 6010C Instrument ID: MT_025

Lab Sample ID: CRI 280-187287/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00964

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 107 | | 107 | 80-120 |
| Antimony | 10.0 | 10.4 | | 104 | 80-120 |
| Barium | 5.00 | 4.95 | J | 99 | 80-120 |
| Beryllium | 1.00 | 0.950 | J | 95 | 80-120 |
| Boron | 100 | 96.4 | J | 96 | 80-120 |
| Cadmium | 5.00 | 5.00 | | 100 | 80-120 |
| Calcium | 200 | 207 | | 104 | 80-120 |
| Chromium | 10.0 | 10.3 | | 103 | 80-120 |
| Cobalt | 5.00 | 5.33 | | 107 | 80-120 |
| Copper | 10.0 | 9.96 | J | 100 | 80-120 |
| Iron | 30.0 | 32.3 | J | 108 | 80-120 |
| Magnesium | 200 | 200 | | 100 | 80-120 |
| Manganese | 3.00 | 3.08 | J | 103 | 80-120 |
| Molybdenum | 10.0 | 9.86 | J | 99 | 80-120 |
| Nickel | 10.0 | 10.2 | J | 102 | 80-120 |
| Potassium | 1000 | 1140 | J | 114 | 80-120 |
| Selenium | 10.0 | 8.23 | J | 82 | 80-120 |
| Silver | 10.0 | 9.84 | J | 98 | 80-120 |
| Sodium | 1000 | 1090 | | 109 | 80-120 |
| Strontium | 5.00 | 5.12 | J | 102 | 80-120 |
| Thallium | 10.0 | 8.54 | J | 85 | 80-120 |
| Vanadium | 10.0 | 10.2 | | 102 | 80-120 |
| Zinc | 10.0 | 11.6 | J | 116 | 80-120 |

Lab Sample ID: CRI 280-187287/13 Concentration Units: ug/L

CRQL Check Standard Source: Alt As Pb_00001

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Arsenic | 15.0 | 14.8 | J | 99 | 80-120 |
| Lead | 9.00 | 9.18 | | 102 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Method: 6010C Instrument ID: MT_025

Lab Sample ID: CRI 280-187483/13 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00965

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 100 | 105 | | 105 | 80-120 |
| Barium | 5.00 | 5.53 | J | 111 | 80-120 |
| Beryllium | 1.00 | 1.02 | | 102 | 80-120 |
| Boron | 100 | 95.5 | J | 96 | 80-120 |
| Cadmium | 5.00 | 5.12 | | 102 | 80-120 |
| Calcium | 200 | 208 | | 104 | 80-120 |
| Chromium | 10.0 | 10.3 | | 103 | 80-120 |
| Cobalt | 5.00 | 5.15 | | 103 | 80-120 |
| Copper | 10.0 | 9.88 | J | 99 | 80-120 |
| Iron | 30.0 | 36.1 | J | 120 | 80-120 |
| Magnesium | 200 | 196 | J | 98 | 80-120 |
| Manganese | 3.00 | 3.14 | J | 105 | 80-120 |
| Molybdenum | 10.0 | 10.4 | J | 104 | 80-120 |
| Nickel | 10.0 | 10.5 | J | 105 | 80-120 |
| Potassium | 1000 | 1040 | J | 104 | 80-120 |
| Selenium | 10.0 | 9.93 | J | 99 | 80-120 |
| Silver | 10.0 | 10.7 | | 107 | 80-120 |
| Sodium | 1000 | 1070 | | 107 | 80-120 |
| Strontium | 5.00 | 5.05 | J | 101 | 80-120 |
| Thallium | 10.0 | 10.4 | J | 104 | 80-120 |
| Vanadium | 10.0 | 10.1 | | 101 | 80-120 |
| Zinc | 10.0 | 10.9 | J | 109 | 80-120 |

Lab Sample ID: CRI 280-187483/14 Concentration Units: ug/L

CRQL Check Standard Source: Alt Pb Sb_00004

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 15.0 | 14.4 | | 96 | 80-120 |
| Lead | 9.00 | 8.56 | J | 95 | 80-120 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-187287/11 08/14/2013 14:43 | | CCB 280-187287/23 08/15/2013 00:32 | | CCB 280-187287/37 08/15/2013 01:04 | | CCB 280-187287/49 08/15/2013 01:32 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| **Antimony** | 10 | 4.54 | J | 3.39 | J | 8.0 | U | 8.0 | U |
| **Arsenic** | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| **Barium** | 10 | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| **Beryllium** | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| **Calcium** | 200 | 4.00 | J | 4.46 | J | 80 | U | 80 | U |
| **Iron** | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| **Potassium** | 3000 | 250 | U | 250 | U | 250 | U | 250 | U |
| **Sodium** | 1000 | 250 | U | 250 | U | 98.4 | J | 250 | U |
| **Strontium** | 10 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| *Boron* | 100 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| *Cadmium* | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | 0.80 | U |
| *Chromium* | 10 | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| *Cobalt* | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| *Copper* | 15 | 3.5 | U | 3.5 | U | 3.5 | U | 3.5 | U |
| *Lead* | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| *Magnesium* | 200 | 25 | U | 25 | U | 25 | U | 25 | U |
| *Manganese* | 10 | 0.50 | U | 0.670 | J | 0.720 | J | 0.50 | U |
| *Molybdenum* | 20 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| *Nickel* | 40 | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| *Selenium* | 15 | 12 | U | 5.72 | J | 12 | U | 12 | U |
| *Silver* | 10 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| *Thallium* | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| *Vanadium* | 10 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| *Zinc* | 20 | 13 | U | 13 | U | 13 | U | 13 | U |

Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 280-187287/60 08/15/2013 01:57 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 100 | 30 | U | | | | | | |
| **Antimony** | 10 | 8.0 | U | | | | | | |
| **Arsenic** | 15 | 12 | U | | | | | | |
| **Barium** | 10 | 1.5 | U | | | | | | |
| **Beryllium** | 1.0 | 0.50 | U | | | | | | |
| **Calcium** | 200 | 80 | U | | | | | | |
| **Iron** | 100 | 30 | U | | | | | | |
| **Potassium** | 3000 | 250 | U | | | | | | |
| **Sodium** | 1000 | 250 | U | | | | | | |
| **Strontium** | 10 | 0.50 | U | | | | | | |
| *Boron* | 100 | 7.0 | U | | | | | | |
| *Cadmium* | 5.0 | 0.80 | U | | | | | | |
| *Chromium* | 10 | 1.5 | U | | | | | | |
| *Cobalt* | 5.0 | 2.0 | U | | | | | | |
| *Copper* | 15 | 3.5 | U | | | | | | |
| *Lead* | 9.0 | 5.0 | U | | | | | | |
| *Magnesium* | 200 | 25 | U | | | | | | |
| *Manganese* | 10 | | | | | | | | |
| *Molybdenum* | 20 | 7.0 | U | | | | | | |
| *Nickel* | 40 | 3.0 | U | | | | | | |
| *Selenium* | 15 | 12 | U | | | | | | |
| *Silver* | 10 | 2.0 | U | | | | | | |
| *Thallium* | 15 | 12 | U | | | | | | |
| *Vanadium* | 10 | 2.5 | U | | | | | | |
| *Zinc* | 20 | 13 | U | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 280-187483/12 08/15/2013 14:47 | | CCB 280-187483/38 08/15/2013 17:30 | | CCB 280-187483/52 08/15/2013 18:02 | | CCB 280-187483/66 08/15/2013 18:34 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| **Barium** | 10 | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| **Beryllium** | 1.0 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| **Boron** | 100 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| **Cadmium** | 5.0 | 0.80 | U | 0.80 | U | 0.80 | U | 0.80 | U |
| **Calcium** | 200 | 80 | U | 80 | U | 80 | U | 80 | U |
| **Chromium** | 10 | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| **Cobalt** | 5.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Copper** | 15 | 3.5 | U | 3.5 | U | 3.5 | U | 3.5 | U |
| **Iron** | 100 | 30 | U | 30 | U | 30 | U | 30 | U |
| **Lead** | 9.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Magnesium** | 200 | 25 | U | 25 | U | 25 | U | 25 | U |
| **Manganese** | 10 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| **Molybdenum** | 20 | 7.0 | U | 7.0 | U | 7.0 | U | 7.0 | U |
| **Nickel** | 40 | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| **Potassium** | 3000 | 250 | U | 250 | U | 250 | U | 250 | U |
| **Selenium** | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| **Silver** | 10 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Sodium** | 1000 | 250 | U | 117 | J | 250 | U | 250 | U |
| **Strontium** | 10 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| **Thallium** | 15 | 12 | U | 12 | U | 12 | U | 12 | U |
| **Vanadium** | 10 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| **Zinc** | 20 | 13 | U | 13 | U | 13 | U | 13 | U |
| *Antimony* | 10 | 8.0 | U | 4.76 | J | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 280-187483/80 08/15/2013 19:06 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 100 | 30 | U | | | | | | |
| **Barium** | 10 | 1.5 | U | | | | | | |
| **Beryllium** | 1.0 | 0.50 | U | | | | | | |
| **Boron** | 100 | 7.0 | U | | | | | | |
| **Cadmium** | 5.0 | 0.80 | U | | | | | | |
| **Calcium** | 200 | 80 | U | | | | | | |
| **Chromium** | 10 | 1.5 | U | | | | | | |
| **Cobalt** | 5.0 | 2.0 | U | | | | | | |
| **Copper** | 15 | 3.5 | U | | | | | | |
| **Iron** | 100 | 30 | U | | | | | | |
| **Lead** | 9.0 | 5.0 | U | | | | | | |
| **Magnesium** | 200 | 25 | U | | | | | | |
| **Manganese** | 10 | 0.50 | U | | | | | | |
| **Molybdenum** | 20 | 7.0 | U | | | | | | |
| **Nickel** | 40 | 3.0 | U | | | | | | |
| **Potassium** | 3000 | 250 | U | | | | | | |
| **Selenium** | 15 | 12 | U | | | | | | |
| **Silver** | 10 | 2.0 | U | | | | | | |
| **Sodium** | 1000 | 250 | U | | | | | | |
| **Strontium** | 10 | 0.50 | U | | | | | | |
| **Thallium** | 15 | 12 | U | | | | | | |
| **Vanadium** | 10 | 2.5 | U | | | | | | |
| **Zinc** | 20 | 13 | U | | | | | | |
| *Antimony* | 10 | | | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-186959/1-A

Instrument Code: MT_025 Batch No.: 187287

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.52 | U | | 6010C |
| 7440-38-2 | Arsenic | 0.86 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-186959/1-A

Instrument Code: MT_025 Batch No.: 187483

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2.6 | U | | 6010C |
| 7440-39-3 | Barium | 0.16 | U | | 6010C |
| 7440-41-7 | Beryllium | 0.060 | U | | 6010C |
| 7440-42-8 | Boron | 0.86 | U | | 6010C |
| 7440-43-9 | Cadmium | 0.086 | U | Q | 6010C |
| 7440-70-2 | Calcium | 17 | U | | 6010C |
| 7440-47-3 | Chromium | 0.13 | U | Q | 6010C |
| 7440-48-4 | Cobalt | 0.17 | U | | 6010C |
| 7440-50-8 | Copper | 0.43 | U | Q | 6010C |
| 7439-89-6 | Iron | 4.3 | U | | 6010C |
| 7439-92-1 | Lead | 0.69 | U | | 6010C |
| 7439-95-4 | Magnesium | 4.3 | U | | 6010C |
| 7439-96-5 | Manganese | 0.13 | U | Q | 6010C |
| 7439-98-7 | Molybdenum | 0.43 | U | | 6010C |
| 7440-02-0 | Nickel | 0.17 | U | | 6010C |
| 7440-09-7 | Potassium | 43 | U | | 6010C |
| 7782-49-2 | Selenium | 1.0 | U | | 6010C |
| 7440-22-4 | Silver | 0.17 | U | | 6010C |
| 7440-23-5 | Sodium | 86 | U | | 6010C |
| 7440-24-6 | Strontium | 0.069 | U | Q | 6010C |
| 7440-28-0 | Thallium | 1.0 | U | | 6010C |
| 7440-62-2 | Vanadium | 0.17 | U | | 6010C |
| 7440-66-6 | Zinc | 0.69 | U | | 6010C |

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICSA 280-187287/14 Instrument ID: MT_025

Lab File ID: 25A5081413.asc ICS Source: ICP ICSA_00075

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **499780** | **100** |
| **Antimony** | | **7.23** | |
| **Arsenic** | | **3.37** | |
| **Barium** | | **-0.130** | |
| **Beryllium** | | **-0.0100** | |
| **Calcium** | **500000** | **473810** | **95** |
| **Iron** | **200000** | **184350** | **92** |
| **Potassium** | | **50.9** | |
| **Sodium** | | **128** | |
| **Strontium** | | **1.80** | |
| *Boron* | | *-0.140* | |
| *Cadmium* | | *1.12* | |
| *Chromium* | | *1.60* | |
| *Cobalt* | | *-0.380* | |
| *Copper* | | *4.09* | |
| *Lead* | | *2.04* | |
| *Lithium* | | *3.68* | |
| *Magnesium* | *500000* | *490400* | *98* |
| *Manganese* | | *0.920* | |
| *Molybdenum* | | *-0.320* | |
| *Nickel* | | *-2.24* | |
| *Phosphorus* | | *-0.570* | |
| *Selenium* | | *-1.82* | |
| *Silicon* | | *-6.10* | |
| *Silver* | | *-0.410* | |
| *SiO2* | | *-13.1* | |
| *Thallium* | | *-3.53* | |
| *Thorium* | | *-9.06* | |
| *Tin* | | *1.55* | |
| *Titanium* | | *0.670* | |
| *Vanadium* | | *1.68* | |
| *Zinc* | | *3.08* | |
| *Zirconium* | | *-0.560* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICSAB 280-187287/15 Instrument ID: MT_025

Lab File ID: 25A5081413.asc ICS Source: ICP ICSAB_00069

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **495050** | **99** |
| **Antimony** | **1000** | **974** | **97** |
| **Arsenic** | **2000** | **1991** | **100** |
| **Barium** | **500** | **496** | **99** |
| **Beryllium** | **500** | **484** | **97** |
| **Calcium** | **500000** | **465290** | **93** |
| **Iron** | **200000** | **182100** | **91** |
| **Potassium** | **50000** | **51279** | **103** |
| **Sodium** | **50000** | **50521** | **101** |
| **Strontium** | **1000** | **1000** | **100** |
| *Boron* | *2000* | *1819* | *91* |
| *Cadmium* | *1000* | *1020* | *102* |
| *Chromium* | *500* | *486* | *97* |
| *Cobalt* | *500* | *465* | *93* |
| *Copper* | *500* | *539* | *108* |
| *Lead* | *1000* | *919* | *92* |
| *Lithium* | *1000* | *1028* | *103* |
| *Magnesium* | *500000* | *489740* | *98* |
| *Manganese* | *500* | *506* | *101* |
| *Molybdenum* | *1000* | *940* | *94* |
| *Nickel* | *1000* | *913* | *91* |
| *Phosphorus* | *2000* | *1899* | *95* |
| *Selenium* | *5000* | *4721* | *94* |
| *Silicon* | *10000* | *9878* | *99* |
| *Silver* | *1000* | *1091* | *109* |
| *SiO2* | *21400* | *21138* | *99* |
| *Thallium* | *10000* | *8295* | *83* |
| *Thorium* | *2000* | *1956* | *98* |
| *Tin* | *10000* | *8944* | *89* |
| *Titanium* | *1000* | *1011* | *101* |
| *Vanadium* | *500* | *510* | *102* |
| *Zinc* | *1000* | *973* | *97* |
| *Zirconium* | *1000* | *1005* | *101* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICSA 280-187483/15 Instrument ID: MT_025

Lab File ID: ICS Source: ICP ICSA_00075

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **505560** | **101** |
| **Barium** | | **0.400** | |
| **Beryllium** | | **-0.0100** | |
| **Boron** | | **-0.830** | |
| **Cadmium** | | **1.53** | |
| **Calcium** | **500000** | **474000** | **95** |
| **Chromium** | | **1.55** | |
| **Cobalt** | | **-0.590** | |
| **Copper** | | **4.01** | |
| **Iron** | **200000** | **187830** | **94** |
| **Lead** | | **2.36** | |
| **Magnesium** | **500000** | **497550** | **100** |
| **Manganese** | | **1.04** | |
| **Molybdenum** | | **-0.310** | |
| **Nickel** | | **-2.28** | |
| **Potassium** | | **-112** | |
| **Selenium** | | **-1.64** | |
| **Silver** | | **-0.360** | |
| **Sodium** | | **62.8** | |
| **Strontium** | | **1.74** | |
| **Thallium** | | **-1.16** | |
| **Vanadium** | | **0.730** | |
| **Zinc** | | **3.08** | |
| *Antimony* | | *2.79* | |
| *Lithium* | | *4.84* | |
| *Phosphorus* | | *0.0900* | |
| *Silicon* | | *-3.58* | |
| *SiO2* | | *-7.67* | |
| *Thorium* | | *-0.450* | |
| *Tin* | | *1.11* | |
| *Titanium* | | *0.520* | |
| *Zirconium* | | *2.47* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Lab Sample ID: ICSAB 280-187483/16 Instrument ID: MT_025

Lab File ID: ICS Source: ICP ICSAB_00069

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Found Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **499280** | **100** |
| **Barium** | **500** | **505** | **101** |
| **Beryllium** | **500** | **488** | **98** |
| **Boron** | **2000** | **1847** | **92** |
| **Cadmium** | **1000** | **1025** | **103** |
| **Calcium** | **500000** | **470320** | **94** |
| **Chromium** | **500** | **490** | **98** |
| **Cobalt** | **500** | **467** | **93** |
| **Copper** | **500** | **539** | **108** |
| **Iron** | **200000** | **183950** | **92** |
| **Lead** | **1000** | **928** | **93** |
| **Magnesium** | **500000** | **481190** | **96** |
| **Manganese** | **500** | **496** | **99** |
| **Molybdenum** | **1000** | **959** | **96** |
| **Nickel** | **1000** | **925** | **93** |
| **Potassium** | **50000** | **51450** | **103** |
| **Selenium** | **5000** | **4739** | **95** |
| **Silver** | **1000** | **1082** | **108** |
| **Sodium** | **50000** | **50913** | **102** |
| **Strontium** | **1000** | **995** | **99** |
| **Thallium** | **10000** | **8374** | **84** |
| **Vanadium** | **500** | **511** | **102** |
| **Zinc** | **1000** | **958** | **96** |
| *Antimony* | *1000* | *976* | *98* |
| *Lithium* | *1000* | *1016* | *102* |
| *Phosphorus* | *2000* | *1923* | *96* |
| *Silicon* | *10000* | *9985* | *100* |
| *SiO2* | *21400* | *21368* | *100* |
| *Thorium* | *2000* | *1958* | *98* |
| *Tin* | *10000* | *9144* | *91* |
| *Titanium* | *1000* | *1000* | *100* |
| *Zirconium* | *1000* | *997* | *100* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-186959/2-A

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

Sample Matrix: Solid  LCS Source: ICP SPK 2A_00062

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 47.2 | 45.8 | | 97 | 80 | 120 | | 6010C |
| Arsenic | 94.3 | 94.6 | | 100 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-186959/2-A

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

Sample Matrix: Solid  LCS Source: ICP SPK 3A_00065

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Aluminum | 189 | 185 | | 98 | 80 | 120 | | 6010C |
| Barium | 189 | 193 | | 102 | 80 | 120 | | 6010C |
| Beryllium | 4.72 | 4.70 | | 100 | 80 | 120 | | 6010C |
| Boron | 94.3 | 101 | | 107 | 80 | 120 | | 6010C |
| Cadmium | 9.43 | 10.1 | | 107 | 80 | 120 | Q | 6010C |
| Calcium | 4720 | 4720 | | 100 | 80 | 120 | | 6010C |
| Chromium | 18.9 | 19.2 | | 102 | 80 | 120 | Q | 6010C |
| Cobalt | 47.2 | 46.8 | | 99 | 80 | 120 | | 6010C |
| Copper | 23.6 | 24.0 | | 102 | 80 | 120 | Q | 6010C |
| Iron | 94.3 | 97.4 | | 103 | 80 | 120 | | 6010C |
| Lead | 47.2 | 47.4 | | 101 | 80 | 120 | | 6010C |
| Magnesium | 4720 | 4550 | | 97 | 80 | 120 | | 6010C |
| Manganese | 47.2 | 46.0 | | 97 | 80 | 120 | Q | 6010C |
| Molybdenum | 94.3 | 93.6 | | 99 | 80 | 120 | | 6010C |
| Nickel | 47.2 | 47.0 | | 100 | 80 | 120 | | 6010C |
| Potassium | 4720 | 4790 | | 102 | 80 | 120 | | 6010C |
| Selenium | 189 | 187 | | 99 | 80 | 120 | | 6010C |
| Silver | 4.72 | 4.68 | | 99 | 80 | 120 | | 6010C |
| Sodium | 4720 | 4850 | | 103 | 80 | 120 | | 6010C |
| Strontium | 94.3 | 94.7 | | 100 | 80 | 120 | Q | 6010C |
| Thallium | 189 | 186 | | 99 | 80 | 120 | | 6010C |
| Vanadium | 47.2 | 47.7 | | 101 | 80 | 120 | | 6010C |
| Zinc | 47.2 | 45.9 | | 97 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG Number:

Matrix: Solid Instrument ID: MT_025

Method: 6010C DL Date: 03/01/2011 13:28

Prep Method: 3050B

| Analyte | Wavelength/ Mass | LOQ (mg/Kg) | DL (mg/Kg) |
|---|---|---|---|
| Aluminum | 167 | 50 | 1.55 |
| Antimony | 206.8 | 2 | 0.38 |
| Arsenic | 189 | 2.5 | 0.66 |
| Barium | 455.4 | 2 | 0.076 |
| Beryllium | 313 | 0.5 | 0.033 |
| Boron | 208.9 | 10 | 0.98 |
| Cadmium | 228.8 | 0.5 | 0.041 |
| Calcium | 317.9 | 100 | 14.1 |
| Chromium | 205.5 | 3.5 | 0.058 |
| Cobalt | 228.6 | 1 | 0.1 |
| Copper | 324.7 | 5 | 0.217 |
| Iron | 259.9 | 80 | 3.8 |
| Lead | 220.3 | 0.9 | 0.27 |
| Magnesium | 279 | 30 | 3.7 |
| Manganese | 257.6 | 4.5 | 0.1 |
| Molybdenum | 202 | 2.5 | 0.26 |
| Nickel | 231.6 | 4 | 0.123 |
| Potassium | 766.4 | 300 | 41 |
| Selenium | 196 | 3 | 0.86 |
| Silver | 328 | 1.5 | 0.16 |
| Sodium | 589.5 | 500 | 59 |
| Strontium | 407.7 | 1.5 | 0.036 |
| Thallium | 190.8 | 3 | 0.65 |
| Vanadium | 292.4 | 2 | 0.094 |
| Zinc | 206.2 | 8 | 0.398 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver  Job Number: 280-45026-1

SDG Number:

Matrix: Solid  Instrument ID: MT_025

Method: 6010C  XMDL Date: 03/01/2011 13:28

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Aluminum | | 100 | 18 |
| Antimony | | 10 | 3.14 |
| Arsenic | | 15 | 4.41 |
| Barium | | 10 | 0.576 |
| Beryllium | | 1 | 0.474 |
| Boron | | 100 | 4.37 |
| Cadmium | | 5 | 0.452 |
| Calcium | | 200 | 3.45 |
| Chromium | | 10 | 0.663 |
| Cobalt | | 5 | 1.23 |
| Copper | | 15 | 1.36 |
| Iron | | 100 | 22 |
| Lead | | 9 | 2.61 |
| Magnesium | | 200 | 10.7 |
| Manganese | | 10 | 0.253 |
| Molybdenum | | 20 | 3.13 |
| Nickel | | 40 | 1.29 |
| Potassium | | 3000 | 237 |
| Selenium | | 15 | 4.86 |
| Silver | | 10 | 0.933 |
| Sodium | | 1000 | 91.6 |
| Strontium | | 10 | 0.3 |
| Thallium | | 15 | 4.91 |
| Vanadium | | 10 | 1.11 |
| Zinc | | 20 | 4.53 |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 06/26/2013

| Analyte | Wave Length | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 167.079 | | | | | | | | | | | | | 0.001001 | |
| Aluminum | 309.271 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | 0.000007 | | | | | | -0.000005 | | | 0.011357 | | 0.000010 | |
| Arsenic | 189.042 | | -0.000012 | | | | | | | | | -0.007296 | | -0.000024 | |
| Barium | 455.403 | | | | | | | | | | | | | | |
| Beryllium | 313.042 | | | | | | | | | | | | | | |
| Bismuth | 223.061 | | -0.000012 | | | -0.000294 | | | -0.000016 | | | 0.001419 | | 0.000120 | |
| Boron | 208.959 | | | | | | | | | | | | | | |
| Cadmium | 228.802 | | | 0.002467 | | -0.000092 | | | | | 0.000036 | | | -0.000013 | |
| Calcium | 317.933 | | | | | | | | | | 0.000391 | | | | |
| Chromium | 205.552 | | | | | | -0.000724 | | | | | | | -0.000038 | |
| Cobalt | 228.616 | | | | | -0.000021 | | | | | | -0.000046 | | | |
| Copper | 324.754 | | | | | | | | | | | | | | |
| Iron | 259.940 | | | | | | | | | | 0.070287 | | | | |
| Iron | 271.441 | | | | | | | | | | 0.070287 | | | | |
| Lead | 220.353 | | -0.000061 | | | | | | 0.000007 | | -0.000010 | | 0.000134 | 0.000034 | |
| Lithium | 670.784 | | | | | | | | 0.000009 | | | | | | |
| Magnesium | 279.079 | | | | | | | | | | | | | -0.000175 | |
| Manganese | 257.610 | | 0.000001 | | | | | | | | | | | 0.000011 | |
| Molybdenum | 202.030 | | | | | | | | | | | | | | |
| Nickel | 231.604 | | | | | | 0.000034 | | -0.000002 | | -0.000053 | | | 0.000034 | |
| Phosphorus | 178.284 | | -0.000005 | | | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | | 0.000021 | | | | | | -0.000001 | | | | | 0.000006 | |
| Silicon | 288.158 | | | | | | | | | | | -0.016952 | | | |
| Silver | 328.068 | | | | | | | | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | 0.000049 | | | | | | |
| Sulfur | 182.034 | | -0.000022 | | | | | | -0.000025 | | | | | | |

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 06/26/2013

| Analyte | Wave Length | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | 0.000001 | | | | | | | | 0.004069 | 0.000274 | | | |
| Thorium | 283.730 | | | | | | | | | | | -0.000153 | | 0.000876 | |
| Tin | 189.989 | | | | | | | | | | | | | | |
| Titanium | 334.904 | | | | | | | | 0.000005 | | | 0.000157 | | | |
| Uranium | 370.152 | | | | -0.03516 | | | | -0.000005 | | | -0.001869 | | 0.000415 | |
| Vanadium | 292.402 | | | | | | | | | | | -0.006987 | | 0.000013 | |
| Zinc | 206.200 | | 0.000010 | | | | | 0.000509 | | | | -0.000468 | | 0.000015 | |
| Zirconium | 339.198 | | | | | | | | | | | | | -0.000028 | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 06/26/2013

| Analyte | Wave Length | Li | Mg | Mn | Mo | Na | Ni | Pb | S | Sb | Se | Si | SiO2 | Sn | Sr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 309.271 | | 0.001655 | | | | | | | | | | | | |
| Aluminum | 167.079 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | | | -0.000327 | | 0.000025 | | | | | 0.000031 | | 0.00189 | |
| Arsenic | 189.042 | | -0.000006 | | 0.001328 | | | | | | | | | | |
| Barium | 455.403 | | | | | | | | | | | | | | |
| Beryllium | 313.042 | | | | | | | | | | | | | | |
| Bismuth | 223.061 | | | | | | | | | | | | | -0.001095 | |
| Boron | 208.959 | | | | 0.033560 | | | | | | | | | | |
| Cadmium | 228.802 | | | | | | | | | | | | | | |
| Calcium | 317.933 | | | | | | | | | | | | | | |
| Chromium | 205.552 | | | | 0.000107 | | 0.000009 | | | | | | | | |
| Cobalt | 228.616 | | | -0.000001 | -0.001006 | | 0.000125 | | | | | | | | |
| Copper | 324.754 | | | | 0.000205 | | | | | | | | | | |
| Iron | 259.940 | | -0.000894 | | | | | | | | | | | | |
| Iron | 271.441 | | -0.000894 | | | | | | | | | | | | |
| Lead | 220.353 | | | | -0.002073 | | 0.000317 | | | | | 0.000169 | | | |
| Lithium | 670.784 | | 0.000006 | | | | | | | | | | | | |
| Magnesium | 279.079 | | | -0.001330 | -0.004610 | | | | | | | | | | |
| Manganese | 257.610 | | | | | | | | | | | | | | |
| Molybdenum | 202.030 | | | | | | | | | | | | | | |
| Nickel | 231.604 | | | | 0.000080 | | | | | | | | | | |
| Phosphorus | 178.284 | | | | -0.005388 | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | | | 0.000570 | | | | | | | | | | | |
| Silicon | 288.158 | | | | -0.000510 | | | | | | | | | | |
| Silver | 328.068 | | | 0.000183 | -0.000074 | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | | | | | | | |
| Sulfur | 182.034 | | | 0.003725 | -0.006321 | | | | | | | | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 06/26/2013

| Analyte | Wave Length | Li | Mg | Mn | Mo | Na | Ni | Pb | S | Sb | Se | Si | SiO2 | Sn | Sr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | | | 0.000859 | | | | | | | | | | | |
| Thorium | 283.730 | | -0.000015 | | 0.000056 | | 0.000237 | | | | | | | | |
| Tin | 189.989 | | | | | | | | | | | | | | |
| Titanium | 334.904 | | 0.000002 | | 0.001119 | | | | | | | | | | |
| Uranium | 370.152 | | | | | | | | | | | | | | |
| Vanadium | 292.402 | | | -0.001054 | -0.000177 | | | | | | | | | | |
| Zinc | 206.200 | | | | 0.000123 | | | | | | | | | | |
| Zirconium | 339.198 | | | | 0.000752 | | | | | | | | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 06/26/2013

| Analyte | Wave Length | Th | Ti | Tl | U | V | Zn | Zr | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 167.079 | | | | | | | | | | | | | | |
| Aluminum | 309.271 | | | | | | | | | | | | | | |
| Antimony | 206.833 | | 0.000259 | | -0.002129 | 0.000091 | | -0.001105 | | | | | | | |
| Arsenic | 189.042 | -0.000781 | | | | | | | | | | | | | |
| Barium | 455.403 | | | | | | | 0.001086 | | | | | | | |
| Beryllium | 313.042 | | -0.000285 | | | 0.000618 | | | | | | | | | |
| Bismuth | 223.061 | | -0.005621 | | -0.003951 | | | | | | | | | | |
| Boron | 208.959 | | | | | | | | | | | | | | |
| Cadmium | 228.802 | | | | -0.000206 | | | | | | | | | | |
| Calcium | 317.933 | -0.003260 | | | | | | | | | | | | | |
| Chromium | 205.552 | 0.000009 | | | -0.000025 | | | | | | | | | | |
| Cobalt | 228.616 | | 0.002052 | | 0.000149 | | | | | | | | | | |
| Copper | 324.754 | 0.001914 | 0.000011 | | -0.000115 | -0.000316 | | -0.002277 | | | | | | | |
| Iron | 259.940 | | | | | -0.209500 | | | | | | | | | |
| Iron | 271.441 | | | | | -0.209500 | | | | | | | | | |
| Lead | 220.353 | | -0.000522 | | 0.000701 | | | -0.000255 | | | | | | | |
| Lithium | 670.784 | | | | | | | | | | | | | | |
| Magnesium | 279.079 | -0.041014 | -0.001688 | | -0.008620 | | | | | | | | | | |
| Manganese | 257.610 | -0.000496 | | | 0.000075 | | | | | | | | | | |
| Molybdenum | 202.030 | | | | -0.000130 | | | | | | | | | | |
| Nickel | 231.604 | | | | | | | | | | | | | | |
| Phosphorus | 178.284 | | | | 0.000099 | | | | | | | | | | |
| Potassium | 766.490 | | | | | | | | | | | | | | |
| Selenium | 196.090 | 0.000088 | | -0.000481 | -0.000220 | | | | | | | | | | |
| Silicon | 288.158 | | | | | | | | | | | | | | |
| Silver | 328.068 | 0.000323 | | | 0.000970 | | | 0.005844 | | | | | | | |
| Sodium | 589.592 | | | | | | | | | | | | | | |
| Sodium | 818.326 | | | | | | | | | | | | | | |
| Strontium | 407.771 | | | | | | | | | | | | | | |
| Sulfur | 182.034 | 0.000111 | | | | 0.000164 | | | | | | | | | |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 06/26/2013

| Analyte | Wave Length | Th | Ti | Tl | U | V | Zn | Zr | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 190.856 | -0.000203 | -0.000892 | | -0.000304 | -0.019465 | | | | | | | | | |
| Thorium | 283.730 | | | | 0.022201 | | | 0.022111 | | | | | | | |
| Tin | 189.989 | 0.000011 | -0.001792 | | 0.000185 | | | | | | | | | | |
| Titanium | 334.904 | 0.006757 | | | -0.000569 | | | | | | | | | | |
| Uranium | 370.152 | | 0.004659 | | | | | | | | | | | | |
| Vanadium | 292.402 | 0.001293 | 0.001093 | | -0.001122 | | | | | | | | | | |
| Zinc | 206.200 | | 0.000066 | | | | | | | | | | | | |
| Zirconium | 339.198 | 0.03149 | | | -0.000178 | | | | | | | | | | |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-45026-1

SDG No.:

Instrument ID: MT_025 Date: 07/19/2013 12:58

| Analyte | Integ. Time (Sec.) | Concentration (mg/L) | Method |
|---|---|---|---|
| Aluminum | | 1000 | 6010C |
| Antimony | | 50 | 6010C |
| Arsenic | | 50 | 6010C |
| Barium | | 50 | 6010C |
| Beryllium | | 20 | 6010C |
| Boron | | 100 | 6010C |
| Cadmium | | 25 | 6010C |
| Calcium | | 1000 | 6010C |
| Chromium | | 50 | 6010C |
| Cobalt | | 50 | 6010C |
| Copper | | 50 | 6010C |
| Iron | | 2000 | 6010C |
| Lead | | 200 | 6010C |
| Magnesium | | 1500 | 6010C |
| Manganese | | 20 | 6010C |
| Molybdenum | | 20 | 6010C |
| Nickel | | 50 | 6010C |
| Potassium | | 500 | 6010C |
| Selenium | | 50 | 6010C |
| Silver | | 2.5 | 6010C |
| Sodium | | 10000 | 6010C |
| Strontium | | 20 | 6010C |
| Thallium | | 50 | 6010C |
| Vanadium | | 50 | 6010C |
| Zinc | | 50 | 6010C |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Prep Method: 3050B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 280-186959/1-A | 08/14/2013 13:00 | 186959 | 1.16 | | 100 |
| LCS 280-186959/2-A | 08/14/2013 13:00 | 186959 | 1.06 | | 100 |
| 280-45026-1 | 08/14/2013 13:00 | 186959 | 1.10 | | 100 |
| 280-45026-2 | 08/14/2013 13:00 | 186959 | 1.18 | | 100 |
| 280-45026-3 | 08/14/2013 13:00 | 186959 | 1.05 | | 100 |
| 280-45026-4 | 08/14/2013 13:00 | 186959 | 1.12 | | 100 |
| 280-45026-5 | 08/14/2013 13:00 | 186959 | 1.19 | | 100 |
| 280-45026-6 | 08/14/2013 13:00 | 186959 | 1.01 | | 100 |
| 280-45026-7 | 08/14/2013 13:00 | 186959 | 1.14 | | 100 |
| 280-45026-8 | 08/14/2013 13:00 | 186959 | 1.08 | | 100 |
| 280-45026-9 | 08/14/2013 13:00 | 186959 | 1.01 | | 100 |
| 280-45026-10 | 08/14/2013 13:00 | 186959 | 1.10 | | 100 |
| 280-45026-14 | 08/14/2013 13:00 | 186959 | 1.19 | | 100 |
| 280-45026-15 | 08/14/2013 13:00 | 186959 | 1.08 | | 100 |
| 280-45026-16 | 08/14/2013 13:00 | 186959 | 1.01 | | 100 |
| 280-45026-17 | 08/14/2013 13:00 | 186959 | 1.16 | | 100 |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 08/14/2013 14:14 End Date: 08/15/2013 02:31

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | As | Ba | Be | Ca | Fe | K | Na | Sb | Sr | | | | | | | | | | |
| ICIS 280-187287/1 | 1 | | 14:14 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| IC 280-187287/2 | | | 14:16 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| IC 280-187287/3 | | | 14:18 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| ZZZZZZ | | | 14:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:23 | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-187287/6 | 1 | | 14:25 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| ICV 280-187287/7 | 1 | | 14:31 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| ICVL 280-187287/8 | 1 | | 14:34 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCVH 280-187287/9 | | | 14:39 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187287/10 | | | 14:41 | | | | | | | | | | | | | | | | | | | | |
| ICB 280-187287/11 | 1 | | 14:43 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CRI 280-187287/12 | 1 | | 14:47 | X | | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CRI 280-187287/13 | 1 | | 14:57 | | X | | | | | | | | | | | | | | | | | | |
| ICSA 280-187287/14 | 1 | | 15:07 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| ICSAB 280-187287/15 | 1 | | 15:09 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| LRA 280-187287/16 | | | 15:12 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187287/17 | | | 15:14 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187287/18 | | | 15:17 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-187287/19 | | | 15:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:21 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187287/21 | 1 | | 00:27 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCV 280-187287/22 | 1 | | 00:30 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCB 280-187287/23 | 1 | | 00:32 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCVL 280-187287/24 | 1 | | 00:34 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| MB 280-186959/1-A | 1 | T | 00:36 | | X | | | | | | | X | | | | | | | | | | | |
| LCS 280-186959/2-A | 1 | T | 00:39 | | X | | | | | | | X | | | | | | | | | | | |
| ZZZZZZ | | | 00:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:58 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187287/35 | 1 | | 01:00 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCV 280-187287/36 | 1 | | 01:02 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCB 280-187287/37 | 1 | | 01:04 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCVL 280-187287/38 | 1 | | 01:07 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| ZZZZZZ | | | 01:09 | | | | | | | | | | | | | | | | | | | | |
| 280-45026-1 | 1 | T | 01:11 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-2 | 1 | T | 01:14 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-3 | 1 | T | 01:16 | | X | | | | | | | X | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 08/14/2013 14:14 End Date: 08/15/2013 02:31

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | As | Ba | Be | Ca | Fe | K | Na | Sb | Sr | | | | | | | | | | |
| 280-45026-4 | 1 | T | 01:18 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| 280-45026-5 | 1 | T | 01:21 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-6 | 1 | T | 01:23 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-7 | 1 | T | 01:25 | | X | | | | | | | X | | | | | | | | | | | |
| CCVH 280-187287/47 | 1 | | 01:28 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCV 280-187287/48 | 1 | | 01:30 | | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCB 280-187287/49 | 1 | | 01:32 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCVL 280-187287/50 | 1 | | 01:34 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| 280-45026-8 | 1 | T | 01:37 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-9 | 1 | T | 01:39 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-10 | 1 | T | 01:41 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-14 | 1 | T | 01:44 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-15 | 1 | T | 01:46 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-16 | 1 | T | 01:48 | | X | | | | | | | X | | | | | | | | | | | |
| 280-45026-17 | 1 | T | 01:50 | | X | | | | | | | X | | | | | | | | | | | |
| CCVH 280-187287/58 | 1 | | 01:53 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCV 280-187287/59 | 1 | | 01:55 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCB 280-187287/60 | 1 | | 01:57 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| CCVL 280-187287/61 | 1 | | 02:00 | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| ZZZZZZ | | | 02:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:22 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187287/72 | | | 02:24 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187287/73 | | | 02:26 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-187287/74 | | | 02:28 | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-187287/75 | | | 02:31 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 08/15/2013 14:17 End Date: 08/15/2013 19:09

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | B | Ba | Be | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Mo | Na | Ni | Pb | Se | Sr |
| ICIS 280-187483/1 | 1 | | 14:17 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| IC 280-187483/2 | | | 14:19 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| IC 280-187483/3 | | | 14:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 14:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:26 | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-187483/6 | 1 | | 14:29 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICV 280-187483/7 | 1 | | 14:33 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICVL 280-187483/8 | 1 | | 14:36 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVH 280-187483/9 | | | 14:40 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/10 | | | 14:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:44 | | | | | | | | | | | | | | | | | | | | |
| ICB 280-187483/12 | 1 | | 14:47 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CRI 280-187483/13 | 1 | | 14:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X |
| CRI 280-187483/14 | 1 | | 15:01 | | | | | | | | | | | | | | | | | | X | | |
| ICSA 280-187483/15 | 1 | | 15:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICSAB 280-187483/16 | 1 | | 15:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LRA 280-187483/17 | | | 15:11 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/18 | | | 15:15 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/19 | | | 15:17 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/20 | | | 15:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:21 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/22 | | | 16:55 | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/23 | | | 16:57 | | | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/24 | | | 16:59 | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-187483/25 | | | 17:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:24 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/36 | 1 | | 17:26 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-187483/37 | 1 | | 17:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-187483/38 | 1 | | 17:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-187483/39 | 1 | | 17:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| MB 280-186959/1-A | 1 | T | 17:35 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LCS 280-186959/2-A | 1 | T | 17:37 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 17:39 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 08/15/2013 14:17 End Date: 08/15/2013 19:09

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | Al | B | Ba | Be | Ca | Cd | Co | Cr | Cu | Fe | K | Mg | Mn | Mo | Na | Ni | Pb | Se | Sr |
| ZZZZZZ | | | 17:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:55 | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/50 | 1 | | 17:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-187483/51 | 1 | | 18:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-187483/52 | 1 | | 18:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-187483/53 | 1 | | 18:04 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | | | 18:07 | | | | | | | | | | | | | | | | | | | | |
| 280-45026-1 | 1 | T | 18:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-2 | 1 | T | 18:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-3 | 1 | T | 18:14 | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X |
| 280-45026-3 | 5 | T | 18:16 | | | | | | | | | | | | | | X | | | | | | |
| 280-45026-4 | 1 | T | 18:18 | X | | X | | | | X | X | X | X | | | X | X | X | | X | X | X | |
| 280-45026-5 | 1 | T | 18:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-6 | 1 | T | 18:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-7 | 1 | T | 18:25 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-8 | 1 | T | 18:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVH 280-187483/64 | 1 | | 18:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-187483/65 | 1 | | 18:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-187483/66 | 1 | | 18:34 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-187483/67 | 1 | | 18:36 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-9 | 1 | T | 18:39 | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X |
| 280-45026-9 | 5 | T | 18:41 | | | | | | | | | | | | | | X | | | | | | |
| 280-45026-10 | 1 | T | 18:43 | X | | X | | | | X | X | X | X | | | X | | X | | X | X | X | |
| 280-45026-10 | 5 | T | 18:46 | | X | | X | X | X | | | | | X | X | | X | | X | | | | X |
| 280-45026-14 | 1 | T | 18:48 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-15 | 1 | T | 18:50 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 280-45026-16 | 1 | T | 18:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X |
| 280-45026-16 | 5 | T | 18:55 | | | | | | | | | | | | | | X | | | | | | |
| 280-45026-17 | 1 | T | 18:57 | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X |
| 280-45026-17 | 5 | T | 19:00 | | | | | | | | | | | | | | X | | | | | | |
| CCVH 280-187483/78 | 1 | | 19:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV 280-187483/79 | 1 | | 19:04 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB 280-187483/80 | 1 | | 19:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCVL 280-187483/81 | 1 | | 19:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 08/15/2013 14:17 End Date: 08/15/2013 19:09

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Tl | V | Zn | | | | | | | | | | | | | | | | | | |
| ICIS 280-187483/1 | 1 | | 14:17 | X | X | X | | | | | | | | | | | | | | | | | | |
| IC 280-187483/2 | | | 14:19 | X | X | X | | | | | | | | | | | | | | | | | | |
| IC 280-187483/3 | | | 14:21 | X | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:26 | | | | | | | | | | | | | | | | | | | | | |
| ICVH 280-187483/6 | 1 | | 14:29 | X | X | X | | | | | | | | | | | | | | | | | | |
| ICV 280-187483/7 | 1 | | 14:33 | X | X | X | | | | | | | | | | | | | | | | | | |
| ICVL 280-187483/8 | 1 | | 14:36 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/9 | | | 14:40 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/10 | | | 14:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:44 | | | | | | | | | | | | | | | | | | | | | |
| ICB 280-187483/12 | 1 | | 14:47 | X | X | X | | | | | | | | | | | | | | | | | | |
| CRI 280-187483/13 | 1 | | 14:51 | X | X | X | | | | | | | | | | | | | | | | | | |
| CRI 280-187483/14 | 1 | | 15:01 | | | | | | | | | | | | | | | | | | | | | |
| ICSA 280-187483/15 | 1 | | 15:06 | X | X | X | | | | | | | | | | | | | | | | | | |
| ICSAB 280-187483/16 | 1 | | 15:09 | X | X | X | | | | | | | | | | | | | | | | | | |
| LRA 280-187483/17 | | | 15:11 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/18 | | | 15:15 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/19 | | | 15:17 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/20 | | | 15:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:21 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/22 | | | 16:55 | | | | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/23 | | | 16:57 | | | | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/24 | | | 16:59 | | | | | | | | | | | | | | | | | | | | | |
| CCVL 280-187483/25 | | | 17:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:24 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/36 | 1 | | 17:26 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/37 | 1 | | 17:28 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/38 | 1 | | 17:30 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVL 280-187483/39 | 1 | | 17:32 | X | X | X | | | | | | | | | | | | | | | | | | |
| MB 280-186959/1-A | 1 | T | 17:35 | X | X | X | | | | | | | | | | | | | | | | | | |
| LCS 280-186959/2-A | 1 | T | 17:37 | X | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:39 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 08/15/2013 14:17 End Date: 08/15/2013 19:09

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Tl | V | Zn | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:41 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:46 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:48 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:51 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:55 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/50 | 1 | | 17:58 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/51 | 1 | | 18:00 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/52 | 1 | | 18:02 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVL 280-187483/53 | 1 | | 18:04 | X | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:07 | | | | | | | | | | | | | | | | | | | | | |
| 280-45026-1 | 1 | T | 18:09 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-2 | 1 | T | 18:11 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-3 | 1 | T | 18:14 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-3 | 5 | T | 18:16 | | | | | | | | | | | | | | | | | | | | | |
| 280-45026-4 | 1 | T | 18:18 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-5 | 1 | T | 18:21 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-6 | 1 | T | 18:23 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-7 | 1 | T | 18:25 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-8 | 1 | T | 18:28 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/64 | 1 | | 18:30 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/65 | 1 | | 18:32 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/66 | 1 | | 18:34 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVL 280-187483/67 | 1 | | 18:36 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-9 | 1 | T | 18:39 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-9 | 5 | T | 18:41 | | | | | | | | | | | | | | | | | | | | | |
| 280-45026-10 | 1 | T | 18:43 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-10 | 5 | T | 18:46 | | | | | | | | | | | | | | | | | | | | | |
| 280-45026-14 | 1 | T | 18:48 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-15 | 1 | T | 18:50 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-16 | 1 | T | 18:53 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-16 | 5 | T | 18:55 | | | | | | | | | | | | | | | | | | | | | |
| 280-45026-17 | 1 | T | 18:57 | X | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-17 | 5 | T | 19:00 | | | | | | | | | | | | | | | | | | | | | |
| CCVH 280-187483/78 | 1 | | 19:02 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCV 280-187483/79 | 1 | | 19:04 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCB 280-187483/80 | 1 | | 19:06 | X | X | X | | | | | | | | | | | | | | | | | | |
| CCVL 280-187483/81 | 1 | | 19:09 | X | X | X | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: MT_025 Method: 6010C

Start Date: 08/15/2013 14:17 End Date: 08/15/2013 19:09

Prep Types
D = Dissolved
R = Total Recoverable
T = Total/NA

Sample Name: ICIS Acquired: 8/14/2013 14:14:30 Type: Cal
Method: 6500_025(v7) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00174** | **.00053** | **.00487** | **-.00016** | **.00040** | **.01124** | **-.00057** | **-.00086** | **.00780** | **-.00053** | **-.00031** | **-.00008** | **.00356** |
| Stddev | .00007 | .00022 | .00048 | .00007 | .00000 | .00028 | .00029 | .00010 | .00043 | .00015 | .00002 | .00000 | .00000 |
| %RSD | 4.1228 | 40.857 | 9.9251 | 43.330 | .05064 | 2.4751 | 50.786 | 11.911 | 5.5525 | 28.919 | 6.2838 | 4.7636 | .07456 |
| #1 | -.00179 | .00038 | .00521 | -.00020 | .00040 | .01104 | -.00077 | -.00094 | .00811 | -.00064 | -.00032 | -.00008 | .00356 |
| #2 | -.00169 | .00068 | .00453 | -.00011 | .00040 | .01144 | -.00036 | -.00079 | .00750 | -.00042 | -.00030 | -.00008 | .00357 |

| Elem | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00011** | **-.00059** | **-.00263** | **-.00827** | **-.00005** | **.00000** | **.00011** | **-.00099** | **-.01995** | **-.00057** | **-.00014** | **.00017** | **-.00043** |
| Stddev | .00018 | .00000 | .00224 | .00193 | .00001 | .00001 | .00009 | .00255 | .00004 | .00006 | .00008 | .00006 | .00004 |
| %RSD | 165.51 | .36311 | 85.200 | 23.279 | 22.261 | 266.87 | 85.995 | 258.68 | .18389 | 9.8671 | 56.286 | 35.243 | 8.3659 |
| #1 | -.00002 | -.00059 | -.00104 | -.00691 | -.00004 | .00000 | .00017 | -.00279 | -.01992 | -.00061 | -.00009 | .00013 | -.00045 |
| #2 | .00023 | -.00059 | -.00421 | -.00963 | -.00006 | .00001 | .00004 | .00082 | -.01997 | -.00053 | -.00020 | .00021 | -.00040 |

| Elem | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00049** | **.00000** | **.00049** | **.00049** | **.00011** | **-.00261** | **-.00060** | **-.00044** | **-.00019** | **-.00008** | **.00020** | **.00000** | **-.00233** |
| Stddev | .00010 | .0000 | .00017 | .00017 | .00004 | .00052 | .00003 | .00011 | .00013 | .00014 | .00014 | .0000 | .00042 |
| %RSD | 20.008 | 5482.4 | 35.436 | 35.436 | 33.325 | 20.088 | 5.2635 | 24.905 | 68.219 | 180.62 | 67.399 | 1775.4 | 17.842 |
| #1 | .00056 | -.00002 | .00037 | .00037 | .00013 | -.00298 | -.00063 | -.00036 | -.00028 | -.00017 | .00011 | .00000 | -.00263 |
| #2 | .00042 | .00002 | .00061 | .00061 | .00008 | -.00224 | -.00058 | -.00052 | -.00010 | .00002 | .00030 | .00000 | -.00204 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9037.2** | **118000.** | **9482.2** |
| Stddev | 17.6 | 129. | 45.1 |
| %RSD | .19529 | .10967 | .47551 |
| #1 | 9024.7 | 118090. | 9450.3 |
| #2 | 9049.7 | 117910. | 9514.1 |

Sample Name: ICAL1 Acquired: 8/14/2013 14:16:47 Type: Cal
Method: 6500_025(v7) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.19157** | **.27496** | **.09671** | **.26180** | **4.4183** | **7.3694** | **2.2057** | **1.4333** | **.86644** | **.97109** | **.29642** | **.68921** | **4.1031** | **1.4391** |
| Stddev | .00026 | .00065 | .00003 | .00006 | .0244 | .0502 | .0158 | .0002 | .00086 | .00009 | .00083 | .00704 | .0310 | .0095 |
| %RSD | .13548 | .23737 | .02878 | .02275 | .55141 | .68103 | .71726 | .01497 | .09932 | .00936 | .28061 | 1.0221 | .75652 | .66390 |
| #1 | .19176 | .27450 | .09673 | .26175 | 4.4011 | 7.3340 | 2.1945 | 1.4335 | .86583 | .97103 | .29701 | .68422 | 4.0811 | 1.4324 |
| #2 | .19139 | .27542 | .09669 | .26184 | 4.4355 | 7.4049 | 2.2169 | 1.4332 | .86705 | .97116 | .29583 | .69419 | 4.1250 | 1.4459 |

| Elem | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Ti3349 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.92737** | **1.1866** | **.50604** | **1.3432** | **.68887** | **.11748** | **.48581** | **.16873** | **.09394** | **.34268** | **.34268** | **.23663** | **8.6109** | **.28293** |
| Stddev | .00093 | .0010 | .00063 | .0141 | .00097 | .00013 | .00038 | .00033 | .00016 | .00264 | .00264 | .00030 | .0571 | .00010 |
| %RSD | .10020 | .08004 | .12546 | 1.0517 | .14060 | .11288 | .07832 | .19276 | .16830 | .77148 | .77148 | .12574 | .66375 | .03611 |
| #1 | .92802 | 1.1859 | .50649 | 1.3332 | .68956 | .11758 | .48608 | .16850 | .09383 | .34081 | .34081 | .23684 | 8.5705 | .28285 |
| #2 | .92671 | 1.1873 | .50559 | 1.3532 | .68819 | .11739 | .48554 | .16896 | .09405 | .34455 | .34455 | .23642 | 8.6513 | .28300 |

| Elem | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.18806** | **.20781** | **.03167** | **.33145** |
| Stddev | .00015 | .00028 | .00004 | .00314 |
| %RSD | .07713 | .13508 | .13499 | .94808 |
| #1 | .18816 | .20800 | .03164 | .32923 |
| #2 | .18796 | .20761 | .03170 | .33367 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8849.1** | **112070.** | **9429.4** |
| Stddev | 11.9 | 425. | 83.0 |
| %RSD | .13432 | .37965 | .88047 |
| #1 | 8840.7 | 112370. | 9488.1 |
| #2 | 8857.5 | 111770. | 9370.7 |

Sample Name: ICAL2 Acquired: 8/14/2013 14:18:56 Type: Cal
Method: 6500_025(v7) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **4.0645** | **.19832** | **.67951** | **2.6195** | **.33346** | **.46090** | **.09285** |
| Stddev | .0261 | .00059 | .00171 | .0141 | .00045 | .00464 | .00074 |
| %RSD | .64090 | .29535 | .25154 | .53930 | .13645 | 1.0071 | .80028 |
| | | | | | | | |
| #1 | 4.0461 | .19790 | .67830 | 2.6095 | .33378 | .45762 | .09232 |
| #2 | 4.0829 | .19873 | .68072 | 2.6295 | .33314 | .46418 | .09337 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8574.4** | **106610.** | **9288.4** |
| Stddev | 9.6 | 601. | 38.0 |
| %RSD | .11249 | .56346 | .40867 |
| | | | |
| #1 | 8567.6 | 107030. | 9315.2 |
| #2 | 8581.2 | 106190. | 9261.6 |

Sample Name: S1-2194460 Acquired: 8/14/2013 14:21:19 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0010** | **1.0210** | **1.9978** | **.99586** | **.98956** | **.99734** | **-.00169** | **9.9923** | **1.0003** | **1.0035** | **.99866** | **1.0020** | **4.9963** |
| Stddev | .0018 | .0043 | .0079 | .00006 | .00282 | .00445 | .00134 | .0412 | .0012 | .0003 | .00039 | .0003 | .0276 |
| %RSD | .17923 | .42189 | .39522 | .00602 | .28506 | .44587 | 79.618 | .41255 | .12135 | .02872 | .03946 | .03041 | .55302 |
| #1 | 1.0022 | 1.0180 | 1.9922 | .99582 | .98756 | .99419 | -.00263 | 9.9632 | 1.0012 | 1.0033 | .99838 | 1.0018 | 4.9768 |
| #2 | .99968 | 1.0241 | 2.0034 | .99590 | .99155 | 1.0005 | -.00074 | 10.021 | .99944 | 1.0037 | .99894 | 1.0022 | 5.0158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **99.955** | **2.0015** | **39.918** | **1.0042** | **.99620** | **10.289** | **10.113** | **.99938** | **1.9901** | **2.0031** | **-.00192** | **2.0020** | **1.9895** |
| Stddev | .378 | .0052 | .170 | .0015 | .00094 | .008 | .113 | .00160 | .0035 | .0015 | .00122 | .0059 | .0025 |
| %RSD | .37825 | .26146 | .42566 | .15478 | .09417 | .07831 | 1.1211 | .16036 | .17398 | .07505 | 63.309 | .29449 | .12762 |
| #1 | 99.688 | 1.9978 | 40.038 | 1.0053 | .99687 | 10.283 | 10.193 | .99824 | 1.9876 | 2.0041 | -.00278 | 1.9978 | 1.9877 |
| #2 | 100.22 | 2.0052 | 39.798 | 1.0031 | .99554 | 10.294 | 10.033 | 1.0005 | 1.9925 | 2.0020 | -.00106 | 2.0062 | 1.9913 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9298** | **21.250** | **1.9875** | **1.0023** | **-.01226** | **1.0055** | **2.0001** | **.05899** | **1.0017** | **1.0001** | **1.0016** |
| Stddev | .0022 | .005 | .0051 | .0026 | .00015 | .0001 | .0011 | .02195 | .0001 | .0031 | .0032 |
| %RSD | .02234 | .02234 | .25645 | .25804 | 1.2272 | .01034 | .05521 | 37.213 | .01402 | .31335 | .32471 |
| #1 | 9.9283 | 21.247 | 1.9839 | 1.0005 | -.01215 | 1.0054 | 1.9993 | .07451 | 1.0016 | 1.0023 | .99926 |
| #2 | 9.9314 | 21.253 | 1.9911 | 1.0041 | -.01237 | 1.0056 | 2.0009 | .04347 | 1.0018 | .99787 | 1.0039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8874.5** | **111980.** | **9473.7** |
| Stddev | 42.4 | 509. | 54.5 |
| %RSD | .47795 | .45462 | .57574 |
| #1 | 8904.5 | 111620. | 9512.2 |
| #2 | 8844.5 | 112340. | 9435.1 |

Sample Name: S2-2188478 Acquired: 8/14/2013 14:23:27 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00251** | **100.16** | **.00560** | **.00642** | **.00177** | **.00000** | **1.9775** | **-.01325** | **-.00007** | **.00055** | **-.00014** | **.00691** | **99.102** |
| Stddev | .00025 | 1.17 | .00022 | .00050 | .00000 | .0000 | .0107 | .00092 | .00008 | .00036 | .00000 | .00062 | 1.024 |
| %RSD | 9.8120 | 1.1649 | 3.9297 | 7.7838 | .27096 | 18734. | .54259 | 6.9455 | 115.23 | 64.698 | 2.1847 | 9.0182 | 1.0333 |
| #1 | .00269 | 99.334 | .00575 | .00677 | .00178 | .00003 | 1.9851 | -.01260 | -.00013 | .00030 | -.00014 | .00647 | 98.378 |
| #2 | .00234 | 100.98 | .00544 | .00606 | .00177 | -.00003 | 1.9699 | -.01390 | -.00001 | .00080 | -.00013 | .00735 | 99.826 |
| Check ? | Chk Fail | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | .00000 | | | | | | | | | | | | |
| Range | 5.0000% | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42709** | **.00214** | **-.02458** | **.00008** | **.00110** | **498.87** | **.00137** | **.00580** | **.00318** | **10.011** | **.00715** | **.00111** | **-.00728** |
| Stddev | .00384 | .00085 | .00182 | .00001 | .00042 | 4.48 | .00025 | .00091 | .00093 | .007 | .00004 | .00452 | .00941 |
| %RSD | .89950 | 39.941 | 7.4081 | 10.117 | 38.564 | .89814 | 18.249 | 15.725 | 29.371 | .07140 | .54607 | 406.20 | 129.16 |
| #1 | .42980 | .00274 | -.02587 | .00007 | .00080 | 495.70 | .00155 | .00515 | .00384 | 10.006 | .00712 | -.00208 | -.00063 |
| #2 | .42437 | .00154 | -.02329 | .00008 | .00140 | 502.04 | .00120 | .00644 | .00252 | 10.016 | .00717 | .00431 | -.01394 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01559** | **.00031** | **.00091** | **9.8617** | **-.00247** | **.00133** | **19.821** | **.00233** | **.00006** | **.05976** |
| Stddev | .02013 | .00028 | .00006 | .0038 | .00031 | .00038 | .036 | .00061 | .00008 | .00764 |
| %RSD | 129.16 | 91.189 | 6.3011 | .03870 | 12.617 | 28.547 | .17947 | 26.080 | 130.76 | 12.785 |
| #1 | -.00135 | .00051 | .00087 | 9.8644 | -.00270 | .00106 | 19.846 | .00276 | .00011 | .05435 |
| #2 | -.02983 | .00011 | .00095 | 9.8590 | -.00225 | .00160 | 19.796 | .00190 | .00000 | .06516 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8562.4** | **107100.** | **9356.3** |
| Stddev | 41.3 | 341. | 131.3 |
| %RSD | .48200 | .31834 | 1.4034 |
| #1 | 8533.2 | 107340. | 9449.1 |
| #2 | 8591.6 | 106860. | 9263.4 |

Sample Name: ICVH-2164914 Acquired: 8/14/2013 14:25:50 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **38.956** | **.00295** | **.00307** | **.00286** | **-.00009** | **.52461** | **-.00430** | **.00001** | **.00060** | **.00011** | **.00223** | **77.627** |
| Stddev | .00009 | .049 | .00180 | .00027 | .00024 | .00009 | .00132 | .00126 | .00023 | .00021 | .00004 | .00042 | .251 |
| %RSD | 231.32 | .12635 | 60.978 | 8.7731 | 8.4158 | 100.08 | .25115 | 29.372 | 2854.8 | 34.349 | 38.352 | 19.077 | .32308 |
| #1 | -.00002 | 38.990 | .00422 | .00288 | .00269 | -.00016 | .52554 | -.00341 | .00017 | .00046 | .00008 | .00193 | 77.805 |
| #2 | .00010 | 38.921 | .00168 | .00326 | .00303 | -.00003 | .52368 | -.00520 | -.00016 | .00075 | .00013 | .00253 | 77.450 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14558** | **-.00016** | **-.00548** | **.00007** | **-.00008** | **40.245** | **.00020** | **.00268** | **.00078** | **3.8098** | **.00286** | **.00286** | **.00118** |
| Stddev | .07563 | .00293 | .00210 | .00000 | .00029 | .223 | .00022 | .00027 | .00099 | .0006 | .00030 | .00070 | .00263 |
| %RSD | 51.952 | 1876.5 | 38.229 | 1.5116 | 374.32 | .55293 | 112.94 | 10.160 | 126.59 | .01614 | 10.558 | 24.441 | 222.99 |
| #1 | .19907 | .00192 | -.00697 | .00007 | .00013 | 40.087 | .00035 | .00287 | .00148 | 3.8102 | .00307 | .00335 | -.00068 |
| #2 | .09210 | -.00223 | -.00400 | .00007 | -.00028 | 40.402 | .00004 | .00249 | .00008 | 3.8094 | .00265 | .00236 | .00304 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00253** | **-.00008** | **.00011** | **2.8438** | **-.00098** | **-.00128** | **5.1276** | **.00128** | **.00079** | **.01453** |
| Stddev | .00563 | .00072 | .00004 | .0083 | .00011 | .00046 | .0361 | .00025 | .00021 | .00121 |
| %RSD | 222.99 | 903.60 | 38.836 | .29166 | 10.750 | 35.830 | .70438 | 19.463 | 27.048 | 8.3304 |
| #1 | -.00146 | .00043 | .00008 | 2.8497 | -.00091 | -.00096 | 5.1531 | .00146 | .00064 | .01539 |
| #2 | .00651 | -.00059 | .00014 | 2.8379 | -.00105 | -.00161 | 5.1021 | .00111 | .00094 | .01368 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9039.7** | **113670.** | **9498.0** |
| Stddev | 27.1 | 341. | 9.2 |
| %RSD | .29931 | .29966 | .09713 |
| #1 | 9058.8 | 113430. | 9491.5 |
| #2 | 9020.6 | 113910. | 9504.5 |

Sample Name: ICV-2191701 Acquired: 8/14/2013 14:31:28 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25329** | **.26313** | **.25248** | **.25211** | **.24938** | **.24320** | **.00069** | **2.0308** | **.25048** | **.25432** | **.25467** | **.25435** | **.25317** |
| Stddev | .00027 | .00021 | .00011 | .00015 | .00015 | .00032 | .00081 | .0027 | .00020 | .00074 | .00062 | .00062 | .00246 |
| %RSD | .10819 | .07794 | .04399 | .05971 | .06050 | .13135 | 117.60 | .13449 | .07887 | .29258 | .24490 | .24403 | .97067 |
| #1 | .25348 | .26298 | .25256 | .25222 | .24927 | .24343 | .00012 | 2.0289 | .25062 | .25380 | .25423 | .25479 | .25491 |
| #2 | .25309 | .26327 | .25240 | .25201 | .24949 | .24298 | .00126 | 2.0327 | .25034 | .25485 | .25511 | .25391 | .25143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.344** | **.25387** | **9.8778** | **.25156** | **.25018** | **2.1040** | **.25514** | **1.9427** | **.25944** | **.00312** | **.25132** | **.48921** | **2.0252** |
| Stddev | .018 | .00020 | .0022 | .00024 | .00093 | .0092 | .00021 | .0039 | .00183 | .00188 | .00061 | .00713 | .0017 |
| %RSD | .08777 | .08011 | .02260 | .09445 | .37196 | .43567 | .08358 | .19815 | .70455 | 60.436 | .24217 | 1.4567 | .08415 |
| #1 | 20.331 | .25402 | 9.8794 | .25139 | .24952 | 2.0975 | .25499 | 1.9399 | .26073 | .00445 | .25089 | .48417 | 2.0264 |
| #2 | 20.356 | .25373 | 9.8762 | .25173 | .25084 | 2.1105 | .25529 | 1.9454 | .25814 | .00179 | .25175 | .49424 | 2.0240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.3339** | **.50684** | **.25042** | **-.00352** | **.24855** | **.52116** | **.01572** | **.24861** | **.24749** | **.24808** |
| Stddev | .0037 | .00184 | .00022 | .00063 | .00061 | .00205 | .02352 | .00145 | .00010 | .00011 |
| %RSD | .08415 | .36239 | .08873 | 17.829 | .24638 | .39360 | 149.65 | .58220 | .04125 | .04310 |
| #1 | 4.3365 | .50554 | .25026 | -.00396 | .24811 | .51971 | .03235 | .24758 | .24742 | .24800 |
| #2 | 4.3313 | .50814 | .25058 | -.00307 | .24898 | .52261 | -.00091 | .24963 | .24756 | .24815 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8926.1** | **114330.** | **9381.2** |
| Stddev | 4.4 | 119. | 51.0 |
| %RSD | .04930 | .10443 | .54393 |
| #1 | 8923.0 | 114250. | 9345.1 |
| #2 | 8929.2 | 114420. | 9417.3 |

Sample Name: ICVL2197715 Acquired: 8/14/2013 14:34:31 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01067** | **.10552** | **.01597** | **.09485** | **.00985** | **.00095** | **.10745** | **.20355** | **.00503** | **.01084** | **.01035** | **.01657** | **.10167** |
| Stddev | .00064 | .00063 | .00069 | .00071 | .00013 | .00002 | .00104 | .00301 | .00001 | .00000 | .00018 | .00179 | .00299 |
| %RSD | 5.9578 | .59249 | 4.3326 | .74615 | 1.3562 | 2.2088 | .96362 | 1.4771 | .13853 | .04054 | 1.7569 | 10.785 | 2.9428 |
| #1 | .01022 | .10596 | .01548 | .09535 | .00976 | .00097 | .10819 | .20568 | .00503 | .01084 | .01048 | .01531 | .09956 |
| #2 | .01112 | .10508 | .01646 | .09435 | .00995 | .00094 | .10672 | .20143 | .00502 | .01084 | .01022 | .01784 | .10379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0492** | **.01121** | **.21594** | **.01095** | **.01988** | **1.0719** | **.04195** | **2.8235** | **.00915** | **-.00056** | **.00826** | **.01728** | **.49226** |
| Stddev | .0038 | .00282 | .01755 | .00093 | .00056 | .0034 | .00023 | .0256 | .00092 | .00156 | .00015 | .00080 | .01467 |
| %RSD | .12477 | 25.162 | 8.1265 | 8.4761 | 2.8068 | .31710 | .55923 | .90772 | 10.046 | 277.45 | 1.8492 | 4.6299 | 2.9808 |
| #1 | 3.0465 | .00922 | .20353 | .01029 | .02027 | 1.0743 | .04212 | 2.8417 | .00980 | .00054 | .00837 | .01672 | .48189 |
| #2 | 3.0519 | .01321 | .22835 | .01160 | .01948 | 1.0695 | .04179 | 2.8054 | .00850 | -.00167 | .00815 | .01785 | .50264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0534** | **.10160** | **.01002** | **.01552** | **.01033** | **.01531** | **.06717** | **.01122** | **.02191** | **.01304** |
| Stddev | .0314 | .00109 | .00001 | .00161 | .00115 | .00020 | .02254 | .00186 | .00217 | .00155 |
| %RSD | 2.9808 | 1.0680 | .13621 | 10.342 | 11.107 | 1.3203 | 33.555 | 16.536 | 9.9135 | 11.846 |
| #1 | 1.0312 | .10237 | .01001 | .01438 | .00951 | .01517 | .08311 | .00991 | .02037 | .01414 |
| #2 | 1.0757 | .10083 | .01003 | .01665 | .01114 | .01546 | .05123 | .01253 | .02344 | .01195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9001.9** | **111680.** | **9509.8** |
| Stddev | 44.9 | 7595. | 47.1 |
| %RSD | .49913 | 6.8011 | .49532 |
| #1 | 8970.1 | 117050. | 9543.1 |
| #2 | 9033.7 | 106310. | 9476.5 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 14:39:07 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **50.192** | **.00200** | **.00245** | **.00053** | **-.00007** | **1.0124** | **-.00963** | **-.00009** | **.00034** | **-.00010** | **.00404** | **50.156** |
| Stddev | .00095 | .177 | .00200 | .00029 | .00012 | .00011 | .0054 | .00463 | .00003 | .00017 | .00007 | .00009 | .061 |
| %RSD | 299.52 | .35315 | 100.13 | 11.964 | 23.709 | 149.23 | .53489 | 48.038 | 36.393 | 49.986 | 62.265 | 2.2353 | .12226 |
| #1 | .00098 | 50.066 | .00341 | .00266 | .00044 | -.00015 | 1.0162 | -.01290 | -.00007 | .00047 | -.00015 | .00398 | 50.199 |
| #2 | -.00035 | 50.317 | .00058 | .00224 | .00061 | .00000 | 1.0086 | -.00636 | -.00011 | .00022 | -.00006 | .00411 | 50.112 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10360** | **-.00177** | **-.01657** | **.00001** | **.00008** | **250.84** | **.00044** | **.00213** | **.00072** | **4.9615** | **.00184** | **-.00378** | **-.00752** |
| Stddev | .01880 | .00031 | .00348 | .00005 | .00017 | .33 | .00009 | .00004 | .00021 | .0085 | .00173 | .00122 | .00493 |
| %RSD | 18.145 | 17.313 | 21.014 | 530.55 | 213.32 | .13270 | 19.898 | 1.6541 | 29.206 | .17108 | 93.842 | 32.303 | 65.623 |
| #1 | .11690 | -.00199 | -.01903 | .00004 | -.00004 | 250.61 | .00038 | .00216 | .00057 | 4.9675 | .00062 | -.00292 | -.00403 |
| #2 | .09031 | -.00155 | -.01411 | -.00003 | .00020 | 251.08 | .00050 | .00211 | .00086 | 4.9555 | .00306 | -.00465 | -.01100 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01608** | **-.00008** | **.00036** | **4.8583** | **-.00160** | **.00043** | **10.162** | **.00194** | **.00042** | **.03199** |
| Stddev | .01055 | .00083 | .00006 | .0133 | .00033 | .00035 | .007 | .00001 | .00012 | .00598 |
| %RSD | 65.623 | 1012.2 | 17.400 | .27366 | 20.496 | 81.644 | .06587 | .32506 | 29.629 | 18.691 |
| #1 | -.00862 | .00051 | .00031 | 4.8677 | -.00137 | .00068 | 10.157 | .00193 | .00051 | .02776 |
| #2 | -.02354 | -.00067 | .00040 | 4.8489 | -.00183 | .00018 | 10.166 | .00194 | .00033 | .03622 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8709.5** | **109570.** | **9325.4** |
| Stddev | 25.9 | 188. | 19.5 |
| %RSD | .29745 | .17196 | .20893 |
| #1 | 8691.2 | 109430. | 9339.1 |
| #2 | 8727.8 | 109700. | 9311.6 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 14:41:28 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49981** | **.51357** | **.99151** | **.49962** | **.49425** | **.49713** | **-.00121** | **5.0310** | **.50114** | **.50563** | **.50132** | **.50298** | **2.5250** |
| Stddev | .00096 | .00017 | .00231 | .00027 | .00017 | .00065 | .00335 | .0048 | .00033 | .00003 | .00033 | .00025 | .0003 |
| %RSD | .19210 | .03276 | .23312 | .05401 | .03393 | .13131 | 277.77 | .09526 | .06529 | .00638 | .06489 | .05000 | .01025 |
| #1 | .50049 | .51345 | .99314 | .49943 | .49436 | .49666 | .00116 | 5.0344 | .50137 | .50565 | .50109 | .50316 | 2.5249 |
| #2 | .49914 | .51369 | .98987 | .49981 | .49413 | .49759 | -.00357 | 5.0276 | .50091 | .50561 | .50155 | .50280 | 2.5252 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.095** | **.99679** | **19.764** | **.50039** | **.49991** | **5.2144** | **.50472** | **.98599** | **1.0170** | **-.00384** | **.99979** | **.99049** | **4.9938** |
| Stddev | .081 | .00010 | .048 | .00175 | .00106 | .0253 | .00067 | .00134 | .0012 | .00107 | .00170 | .00354 | .0120 |
| %RSD | .16185 | .01052 | .24335 | .34988 | .21201 | .48444 | .13233 | .13555 | .12231 | 27.937 | .16981 | .35786 | .24094 |
| #1 | 50.037 | .99672 | 19.798 | .50163 | .49916 | 5.2322 | .50425 | .98505 | 1.0161 | -.00308 | 1.0010 | .98798 | 5.0023 |
| #2 | 50.152 | .99687 | 19.730 | .49916 | .50066 | 5.1965 | .50520 | .98694 | 1.0178 | -.00460 | .99859 | .99300 | 4.9853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.687** | **1.0038** | **.49832** | **-.00642** | **.49748** | **1.0285** | **.04807** | **.49744** | **.49628** | **.49777** |
| Stddev | .026 | .0035 | .00052 | .00161 | .00165 | .0016 | .02502 | .00038 | .00238 | .00149 |
| %RSD | .24094 | .34432 | .10463 | 25.062 | .33142 | .15125 | 52.052 | .07596 | .48041 | .29938 |
| #1 | 10.705 | 1.0014 | .49795 | -.00755 | .49865 | 1.0296 | .06576 | .49771 | .49796 | .49672 |
| #2 | 10.669 | 1.0063 | .49869 | -.00528 | .49631 | 1.0274 | .03038 | .49718 | .49459 | .49883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8933.0** | **113400.** | **9375.7** |
| Stddev | 18.4 | 83. | 51.1 |
| %RSD | .20588 | .07356 | .54495 |
| #1 | 8946.0 | 113350. | 9339.6 |
| #2 | 8920.0 | 113460. | 9411.9 |

Sample Name: ICB  Acquired: 8/14/2013 14:43:36  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **-.00025** | **.00257** | **.00149** | **.00005** | **.00004** | **.00091** | **.00400** | **-.00014** | **.00009** | **-.00020** | **-.00025** |
| Stddev | .00037 | .00011 | .00098 | .00008 | .00025 | .00004 | .00171 | .00061 | .00001 | .00020 | .00012 | .00035 |
| %RSD | 251.76 | 42.256 | 38.332 | 5.2006 | 546.62 | 115.26 | 187.39 | 15.144 | 7.5886 | 221.11 | 59.759 | 141.17 |
| #1 | -.00041 | -.00033 | .00326 | .00154 | -.00013 | .00006 | -.00030 | .00443 | -.00013 | -.00005 | -.00028 | -.00049 |
| #2 | .00011 | -.00018 | .00187 | .00143 | .00022 | .00001 | .00212 | .00358 | -.00015 | .00024 | -.00011 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.11982** | **-.00106** | **.00254** | **.00005** | **.00042** | **.05310** | **.00006** | **.00152** | **-.00054** | **.00063** | W **.00454** |
| Stddev | .00144 | .00419 | .00036 | .00280 | .00002 | .00016 | .00427 | .00013 | .00087 | .00016 | .00422 | .00034 |
| %RSD | 207.24 | 3.5008 | 34.023 | 110.20 | 37.999 | 38.169 | 8.0455 | 219.63 | 57.303 | 29.814 | 665.52 | 7.5544 |
| #1 | .00172 | .12279 | -.00081 | .00452 | .00006 | .00031 | .05008 | -.00003 | .00213 | -.00043 | -.00235 | .00430 |
| #2 | -.00032 | .11686 | -.00132 | .00056 | .00003 | .00054 | .05612 | .00015 | .00090 | -.00066 | .00361 | .00478 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00429** | **-.00187** | **-.00400** | **.00039** | **-.00005** | **.00019** | **.00009** | **-.00133** | **-.00017** | **.00049** | **.00116** | **-.00139** |
| Stddev | .00000 | .00473 | .01013 | .00062 | .00002 | .00119 | .00018 | .00040 | .03419 | .00012 | .00002 | .00066 |
| %RSD | .03908 | 253.28 | 253.28 | 157.51 | 30.546 | 632.39 | 211.67 | 29.880 | 20176. | 24.092 | 2.1167 | 47.322 |
| #1 | .00429 | .00148 | .00316 | .00083 | -.00007 | .00103 | -.00004 | -.00161 | .02400 | .00040 | .00117 | -.00092 |
| #2 | .00429 | -.00522 | -.01116 | -.00004 | -.00004 | -.00066 | .00022 | -.00105 | -.02434 | .00057 | .00114 | -.00185 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8985.8** | **116050.** | **9396.1** |
| Stddev | 9.1 | 345. | 100.2 |
| %RSD | .10137 | .29712 | 1.0662 |
| #1 | 8979.4 | 116300. | 9466.9 |
| #2 | 8992.3 | 115810. | 9325.2 |

Sample Name: CRI-2197714 Acquired: 8/14/2013 14:47:18 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00984** | **.10693** | W **.01225** | **.09642** | **.00495** | **.00095** | **.11123** | **.20720** | **.00500** | **.00533** | **.01026** | **.00996** |
| Stddev | .00060 | .00070 | .00074 | .00039 | .00030 | .00001 | .00067 | .00234 | .00004 | .00027 | .00002 | .00019 |
| %RSD | 6.0818 | .65239 | 6.0702 | .40597 | 6.0392 | 1.3782 | .60632 | 1.1297 | .70818 | 5.0365 | .20820 | 1.8816 |
| #1 | .01027 | .10643 | .01173 | .09670 | .00474 | .00096 | .11171 | .20885 | .00497 | .00514 | .01024 | .00983 |
| #2 | .00942 | .10742 | .01278 | .09614 | .00516 | .00094 | .11075 | .20554 | .00502 | .00552 | .01027 | .01009 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | .01000 | | | | | | | | | |
| Range | | | 20.490% | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03226** | **1.1354** | **.01042** | **.19985** | **.00308** | **.00986** | **1.0870** | **.01024** | **.94431** | W **.00396** | **.09347** | **.01039** |
| Stddev | .00006 | .0038 | .00506 | .00230 | .00004 | .00008 | .0049 | .00023 | .00455 | .00008 | .00051 | .00221 |
| %RSD | .18391 | .33271 | 48.531 | 1.1503 | 1.3733 | .76331 | .45130 | 2.2507 | .48206 | 2.0365 | .54924 | 21.232 |
| #1 | .03231 | 1.1381 | .00685 | .20148 | .00311 | .00991 | 1.0835 | .01040 | .94753 | .00402 | .09383 | .01195 |
| #2 | .03222 | 1.1327 | .01400 | .19823 | .00305 | .00980 | 1.0905 | .01008 | .94109 | .00390 | .09311 | .00883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| Value | | | | | | | | | | .00300 | | |
| Range | | | | | | | | | | 20.490% | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00823** | **.50026** | **1.0706** | **.02132** | **.00512** | W **.00667** | **.00992** | **.00854** | W **.07264** | **.01022** | **.01162** | **.00876** |
| Stddev | .00089 | .00238 | .0051 | .00035 | .00002 | .00147 | .00001 | .00045 | .01691 | .00038 | .00031 | .00130 |
| %RSD | 10.793 | .47502 | .47502 | 1.6497 | .36116 | 22.005 | .11998 | 5.2355 | 23.275 | 3.7257 | 2.6872 | 14.858 |
| #1 | .00761 | .50194 | 1.0742 | .02157 | .00511 | .00771 | .00993 | .00886 | .08460 | .01049 | .01184 | .00968 |
| #2 | .00886 | .49858 | 1.0670 | .02108 | .00513 | .00563 | .00991 | .00823 | .06069 | .00995 | .01139 | .00784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | .01000 | | | .06000 | | | |
| Range | | | | | | -20.490% | | | 20.490% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9002.6** | **116310.** | **9453.6** |
| Stddev | 20.9 | 46. | 112.4 |
| %RSD | .23219 | .03926 | 1.1895 |
| #1 | 8987.8 | 116270. | 9533.2 |
| #2 | 9017.4 | 116340. | 9374.1 |

Sample Name: CRI-2198947 Acquired: 8/14/2013 14:57:03 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **-.00029** | **.01479** | **.00145** | **-.00014** | **-.00006** | **-.00140** | **.00111** | **.00006** | **.00018** |
| Stddev | .00008 | .00011 | .00209 | .00046 | .00013 | .00000 | .00084 | .00071 | .00019 | .00001 |
| %RSD | 25.816 | 39.074 | 14.143 | 31.572 | 97.803 | 3.8328 | 59.932 | 63.963 | 335.86 | 6.8108 |
| #1 | -.00037 | -.00037 | .01331 | .00177 | -.00023 | -.00005 | -.00200 | .00161 | .00019 | .00017 |
| #2 | -.00026 | -.00021 | .01627 | .00113 | -.00004 | -.00006 | -.00081 | .00061 | -.00008 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **-.00037** | **.00161** | **.06572** | **-.00128** | **.00164** | **.00002** | **-.00018** | **.01740** | **.00003** |
| Stddev | .00009 | .00018 | .00106 | .03926 | .00076 | .00036 | .00000 | .00012 | .00848 | .00024 |
| %RSD | 45.764 | 47.615 | 65.821 | 59.743 | 59.434 | 21.962 | 7.2185 | 64.168 | 48.739 | 842.45 |
| #1 | -.00014 | -.00025 | .00086 | .03796 | -.00182 | .00139 | .00002 | -.00027 | .01140 | .00020 |
| #2 | -.00027 | -.00049 | .00235 | .09349 | -.00074 | .00190 | .00002 | -.00010 | .02339 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00201** | **.00918** | **.00101** | **.00028** | **.00318** | **.00531** | **.01136** | **.00057** | **.00000** | **-.00093** |
| Stddev | .00016 | .00036 | .00032 | .00130 | .00125 | .01806 | .03865 | .00034 | .00015 | .00029 |
| %RSD | 7.7957 | 3.9740 | 31.895 | 462.07 | 39.305 | 340.31 | 340.31 | 60.111 | 29424. | 31.338 |
| #1 | .00190 | .00944 | .00078 | .00120 | .00406 | -.00746 | -.01597 | .00033 | .00011 | -.00072 |
| #2 | .00212 | .00893 | .00123 | -.00064 | .00230 | .01808 | .03868 | .00082 | -.00011 | -.00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **-.00133** | **.02544** | **.00058** | **.00116** | **-.00183** |
| Stddev | .00012 | .00179 | .04016 | .00028 | .00044 | .00180 |
| %RSD | 447.13 | 134.25 | 157.87 | 48.042 | 38.138 | 98.297 |
| #1 | -.00011 | -.00007 | -.00296 | .00038 | .00085 | -.00310 |
| #2 | .00006 | -.00259 | .05384 | .00078 | .00148 | -.00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8880.2** | **115680.** | **9259.1** |
| Stddev | 35.1 | 383. | 45.4 |
| %RSD | .39576 | .33079 | .48999 |
| #1 | 8855.4 | 115410. | 9291.2 |
| #2 | 8905.1 | 115950. | 9227.0 |

Sample Name: ICSA-2168420 Acquired: 8/14/2013 15:07:26 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **499.78** | **.00337** | **-.00014** | **-.00013** | **-.00001** | **.00012** | **473.81** | W **.00112** | **-.00038** | **.00160** |
| Stddev | .00066 | .91 | .00163 | .00025 | .00003 | .00005 | .00248 | 1.50 | .00004 | .00015 | .00012 |
| %RSD | 161.03 | .18233 | 48.408 | 186.16 | 19.329 | 661.19 | 2141.0 | .31584 | 3.5625 | 39.675 | 7.6546 |
| #1 | .00006 | 500.42 | .00222 | .00004 | -.00015 | .00003 | .00187 | 472.75 | .00115 | -.00049 | .00151 |
| #2 | -.00088 | 499.13 | .00453 | -.00031 | -.00012 | -.00005 | -.00164 | 474.87 | .00109 | -.00028 | .00169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | .00080 | | |
| Low Limit | | | | | | | | | -.00080 | | |

| Elem | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00409** | **184.35** | **.05093** | **.00368** | **490.40** | W **.00092** | **-.00032** | **.12817** | **-.00224** | **-.00057** | **.00204** |
| Stddev | .00012 | 1.40 | .05986 | .00067 | 3.81 | .00002 | .00004 | .01109 | .00017 | .00085 | .00118 |
| %RSD | 3.0036 | .75950 | 117.53 | 18.228 | .77681 | 2.5642 | 13.968 | 8.6548 | 7.7927 | 150.52 | 57.938 |
| #1 | .00400 | 185.34 | .00860 | .00321 | 493.10 | .00091 | -.00028 | .13601 | -.00211 | -.00117 | .00121 |
| #2 | .00418 | 183.36 | .09326 | .00415 | 487.71 | .00094 | -.00035 | .12032 | -.00236 | .00004 | .00288 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00272 | | | | | .00050 | | | | | |
| Low Limit | -.00272 | | | | | -.00050 | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.07065** | W **.00723** | **-.00182** | **-.00610** | **-.01306** | **.00155** | W **.00180** | W **-.00906** | **.00067** | **-.00353** | **-.00311** |
| Stddev | .00156 | .00019 | .00243 | .00542 | .01159 | .00127 | .00005 | .00029 | .00008 | .00007 | .04087 |
| %RSD | 2.2100 | 2.6573 | 133.52 | 88.753 | 88.753 | 81.904 | 3.0455 | 3.2078 | 11.253 | 2.1026 | 1313.6 |
| #1 | -.06954 | .00709 | -.00010 | -.00994 | -.02126 | .00065 | .00176 | -.00927 | .00073 | -.00347 | -.03201 |
| #2 | -.07175 | .00737 | -.00354 | -.00227 | -.00487 | .00244 | .00184 | -.00886 | .00062 | -.00358 | .02579 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00628 | | | | | .00050 | .00800 | | | |
| Low Limit | | -.00628 | | | | | -.00050 | -.00800 | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00168** | **.00308** | **-.00056** |
| Stddev | .00026 | .00011 | .00065 |
| %RSD | 15.614 | 3.5714 | 116.56 |
| #1 | .00150 | .00316 | -.00010 |
| #2 | .00187 | .00300 | -.00101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8283.0** | **100750.** | **9461.7** |
| Stddev | .9 | 70. | 17.6 |
| %RSD | .01138 | .06909 | .18587 |
| #1 | 8282.3 | 100700. | 9449.3 |
| #2 | 8283.6 | 100800. | 9474.1 |

Sample Name: ICSAB-2180558 Acquired: 8/14/2013 15:09:51 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0912** | **495.05** | **1.9911** | **1.8190** | **.49648** | **.48409** | **1.0040** | **465.29** | **1.0202** | **.46507** | **.48560** | **.53893** | **182.10** | **51.279** |
| Stddev | .0018 | 1.08 | .0093 | .0017 | .00270 | .00058 | .0027 | 6.33 | .0008 | .00057 | .00012 | .00005 | .58 | .186 |
| %RSD | .16049 | .21729 | .46894 | .09302 | .54387 | .12025 | .26435 | 1.3601 | .07981 | .12248 | .02485 | .00961 | .31610 | .36366 |
| #1 | 1.0900 | 494.29 | 1.9845 | 1.8178 | .49457 | .48368 | 1.0021 | 469.77 | 1.0208 | .46467 | .48551 | .53889 | 181.69 | 51.147 |
| #2 | 1.0924 | 495.81 | 1.9977 | 1.8202 | .49839 | .48451 | 1.0059 | 460.82 | 1.0196 | .46548 | .48568 | .53897 | 182.50 | 51.411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0276** | **489.74** | **.50608** | **.93964** | **50.521** | **.91269** | **1.8985** | **.91864** | **.91896** | **.97419** | **4.7205** | **9.8775** | **21.138** | **8.9436** |
| Stddev | .0070 | 2.67 | .00012 | .00056 | .526 | .00019 | .0061 | .00049 | .00009 | .00454 | .0005 | .0442 | .095 | .0002 |
| %RSD | .67943 | .54522 | .02433 | .05961 | 1.0410 | .02043 | .32355 | .05306 | .00937 | .46579 | .01056 | .44740 | .44740 | .00227 |
| #1 | 1.0227 | 491.62 | .50599 | .93924 | 50.149 | .91256 | 1.9028 | .91830 | .91890 | .97740 | 4.7209 | 9.8463 | 21.071 | 8.9438 |
| #2 | 1.0325 | 487.85 | .50617 | .94003 | 50.893 | .91282 | 1.8941 | .91899 | .91902 | .97098 | 4.7202 | 9.9088 | 21.205 | 8.9435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99966** | **1.9556** | **1.0113** | **8.2947** | **.00152** | **.50983** | **.97251** | **1.0054** |
| Stddev | .00385 | .0015 | .0003 | .0112 | .02034 | .00006 | .00031 | .0023 |
| %RSD | .38475 | .07605 | .03268 | .13491 | 1341.2 | .01081 | .03215 | .22857 |
| #1 | .99694 | 1.9567 | 1.0116 | 8.3026 | .01590 | .50979 | .97229 | 1.0037 |
| #2 | 1.0024 | 1.9546 | 1.0111 | 8.2868 | -.01287 | .50987 | .97273 | 1.0070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8247.1** | **99771.** | **9523.7** |
| Stddev | 15.3 | 305. | 24.7 |
| %RSD | .18525 | .30605 | .25891 |
| #1 | 8236.3 | 99555. | 9506.2 |
| #2 | 8257.9 | 99987. | 9541.1 |

Sample Name: LRA-2131692 Acquired: 8/14/2013 15:12:08 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1383** | **.00216** | **10.070** | **9.8215** | **12.322** | **-.00634** | **-.02401** | **.01430** | **2.1206** | **5.1016** | **10.197** | **10.599** | **499.92** |
| Stddev | .0022 | .01304 | .017 | .0052 | .046 | .00009 | .00117 | .00050 | .0008 | .0063 | .009 | .003 | .44 |
| %RSD | .10374 | 603.83 | .16626 | .05284 | .37444 | 1.4934 | 4.8865 | 3.4774 | .03689 | .12277 | .08548 | .02945 | .08782 |
| #1 | 2.1399 | -.00706 | 10.082 | 9.8252 | 12.355 | -.00627 | -.02319 | .01465 | 2.1200 | 5.0972 | 10.204 | 10.601 | 499.61 |
| #2 | 2.1368 | .01138 | 10.058 | 9.8178 | 12.289 | -.00640 | -.02484 | .01395 | 2.1211 | 5.1061 | 10.191 | 10.597 | 500.23 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.16364** | **.00237** | **-.05046** | **9.9472** | **9.9595** | **.05631** | **10.212** | **.02406** | **10.493** | **-.08395** | **-.22645** | **5.0539** | **49.120** |
| Stddev | .01821 | .00143 | .00541 | .1181 | .0181 | .01514 | .005 | .00084 | .009 | .00149 | .00062 | .0151 | .273 |
| %RSD | 11.128 | 60.251 | 10.715 | 1.1868 | .18173 | 26.879 | .04751 | 3.4819 | .08096 | 1.7804 | .27544 | .29949 | .55634 |
| #1 | -.15076 | .00136 | -.04664 | 10.031 | 9.9723 | .06701 | 10.209 | .02465 | 10.487 | -.08500 | -.22689 | 5.0646 | 48.927 |
| #2 | -.17652 | .00338 | -.05428 | 9.8637 | 9.9467 | .04561 | 10.215 | .02346 | 10.499 | -.08289 | -.22601 | 5.0432 | 49.313 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **105.12** | **.00736** | **10.136** | **-.02498** | **10.047** | **10.168** | **.04792** | **10.039** | **9.7163** | **-.00556** |
| Stddev | .58 | .00021 | .186 | .00158 | .056 | .010 | .00728 | .006 | .0145 | .00096 |
| %RSD | .55634 | 2.7859 | 1.8321 | 6.3213 | .55290 | .09928 | 15.199 | .05583 | .14920 | 17.282 |
| #1 | 104.70 | .00751 | 10.004 | -.02386 | 10.086 | 10.161 | .04277 | 10.035 | 9.7266 | -.00624 |
| #2 | 105.53 | .00722 | 10.267 | -.02610 | 10.008 | 10.176 | .05307 | 10.043 | 9.7061 | -.00488 |
| Check ? | None | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8901.1** | **114640.** | **9692.5** |
| Stddev | 3.7 | 127. | 41.6 |
| %RSD | .04178 | .11035 | .42932 |
| #1 | 8898.4 | 114730. | 9722.0 |
| #2 | 8903.7 | 114550. | 9663.1 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 15:14:46 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **49.890** | **.00536** | **.02400** | **.00123** | **-.00006** | **1.0110** | **-.00919** | **.00000** | **.00043** | **.00004** | **.00402** | **49.806** |
| Stddev | .00060 | .062 | .00173 | .00194 | .00048 | .00002 | .0010 | .00290 | .00016 | .00002 | .00007 | .00007 | .095 |
| %RSD | 114.02 | .12372 | 32.351 | 8.0942 | 39.161 | 28.545 | .09534 | 31.568 | 4965.1 | 3.5477 | 158.73 | 1.8289 | .18977 |
| #1 | .00095 | 49.934 | .00413 | .02538 | .00158 | -.00005 | 1.0117 | -.01125 | -.00011 | .00044 | .00009 | .00396 | 49.739 |
| #2 | .00010 | 49.847 | .00658 | .02263 | .00089 | -.00007 | 1.0103 | -.00714 | .00012 | .00042 | -.00001 | .00407 | 49.873 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05468** | **.00053** | **-.01305** | **.00015** | **.00903** | **249.12** | **.00053** | **.00272** | **.00150** | **5.0202** | **.00016** | **.00012** | **.03609** |
| Stddev | .05486 | .00186 | .00142 | .00000 | .00160 | 1.32 | .00012 | .00065 | .00173 | .0100 | .00028 | .00005 | .02324 |
| %RSD | 100.33 | 349.48 | 10.905 | 2.9055 | 17.717 | .53022 | 23.338 | 23.746 | 115.27 | .19836 | 177.30 | 44.523 | 64.412 |
| #1 | .01589 | -.00078 | -.01204 | .00015 | .00790 | 250.05 | .00062 | .00226 | .00028 | 5.0131 | .00036 | .00015 | .05252 |
| #2 | .09347 | .00184 | -.01405 | .00016 | .01016 | 248.19 | .00044 | .00318 | .00272 | 5.0272 | -.00004 | .00008 | .01965 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07722** | **.00114** | **.00081** | **4.8843** | **-.00033** | **.00254** | **10.103** | **.00172** | **.00112** | **.02838** |
| Stddev | .04974 | .00077 | .00029 | .0067 | .00019 | .00005 | .007 | .00026 | .00051 | .00199 |
| %RSD | 64.412 | 67.732 | 35.350 | .13816 | 56.595 | 1.8931 | .07143 | 15.215 | 45.814 | 7.0081 |
| #1 | .11240 | .00059 | .00101 | 4.8795 | -.00046 | .00251 | 10.098 | .00190 | .00149 | .02979 |
| #2 | .04205 | .00168 | .00061 | 4.8890 | -.00020 | .00258 | 10.108 | .00153 | .00076 | .02698 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8908.8** | **111410.** | **9622.8** |
| Stddev | 12.4 | 21. | 26.4 |
| %RSD | .13906 | .01845 | .27467 |
| #1 | 8917.5 | 111420. | 9604.1 |
| #2 | 8900.0 | 111400. | 9641.5 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 15:17:08 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50065** | **.51741** | **.98527** | **.51176** | **.48664** | **.49434** | **-.00126** | **4.9818** | **.50267** | **.50746** | **.49685** | **.50574** | **2.5087** |
| Stddev | .00129 | .00087 | .00036 | .00081 | .00076 | .00090 | .00020 | .0082 | .00027 | .00089 | .00061 | .00063 | .0024 |
| %RSD | .25839 | .16830 | .03672 | .15841 | .15565 | .18246 | 15.768 | .16376 | .05366 | .17467 | .12189 | .12392 | .09714 |
| #1 | .49973 | .51679 | .98552 | .51118 | .48717 | .49497 | -.00112 | 4.9876 | .50286 | .50809 | .49728 | .50530 | 2.5104 |
| #2 | .50156 | .51802 | .98501 | .51233 | .48610 | .49370 | -.00141 | 4.9760 | .50248 | .50683 | .49642 | .50619 | 2.5070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.689** | **.99090** | **19.567** | **.50211** | **.49508** | **5.1218** | **.50188** | **.97856** | **1.0149** | **-.00448** | **1.0148** | **.99731** | **4.9532** |
| Stddev | .035 | .00261 | .001 | .00013 | .00033 | .0157 | .00080 | .00081 | .0025 | .00003 | .0021 | .00039 | .0034 |
| %RSD | .07050 | .26344 | .00641 | .02652 | .06685 | .30603 | .15873 | .08320 | .24853 | .67784 | .20683 | .03940 | .06778 |
| #1 | 49.714 | .99275 | 19.567 | .50202 | .49531 | 5.1328 | .50244 | .97798 | 1.0167 | -.00450 | 1.0133 | .99703 | 4.9509 |
| #2 | 49.665 | .98906 | 19.566 | .50221 | .49484 | 5.1107 | .50131 | .97913 | 1.0132 | -.00446 | 1.0163 | .99759 | 4.9556 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.600** | **.99693** | **.49787** | **-.00438** | **.50254** | **1.0344** | **.02231** | **.49843** | **.49339** | **.50019** |
| Stddev | .007 | .00274 | .00039 | .00083 | .00050 | .0062 | .00708 | .00111 | .00192 | .00309 |
| %RSD | .06778 | .27511 | .07810 | 18.996 | .09921 | .59527 | 31.727 | .22256 | .38911 | .61746 |
| #1 | 10.595 | .99499 | .49759 | -.00379 | .50219 | 1.0301 | .02732 | .49922 | .49475 | .50237 |
| #2 | 10.605 | .99887 | .49814 | -.00497 | .50289 | 1.0388 | .01731 | .49765 | .49203 | .49801 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9162.7** | **115610.** | **9777.1** |
| Stddev | 7.4 | 357. | 43.4 |
| %RSD | .08038 | .30875 | .44356 |
| #1 | 9167.9 | 115360. | 9807.8 |
| #2 | 9157.5 | 115860. | 9746.5 |

Sample Name: CCB  Acquired: 8/14/2013 15:19:14  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00010** | **.00294** | F **.01116** | **-.00009** | **-.00009** | **.00053** | **-.00488** | **-.00017** | **.00024** | **.00004** | **-.00015** |
| Stddev | .00024 | .00049 | .00133 | .00106 | .00020 | .00002 | .00134 | .00042 | .00001 | .00010 | .00002 | .00023 |
| %RSD | 919.10 | 517.33 | 45.104 | 9.4977 | 231.26 | 26.211 | 254.97 | 8.6817 | 7.1941 | 41.823 | 58.604 | 157.88 |
| #1 | .00019 | -.00025 | .00200 | .01191 | -.00022 | -.00011 | .00148 | -.00458 | -.00018 | .00017 | .00006 | .00002 |
| #2 | -.00014 | .00044 | .00388 | .01041 | .00005 | -.00007 | -.00042 | -.00518 | -.00016 | .00031 | .00002 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00425** | **.04569** | **.00196** | **.00259** | **.00014** | **.00072** | **.07298** | **.00017** | **.00016** | **-.00058** | **.00018** | W **.00448** |
| Stddev | .00046 | .05462 | .00015 | .00102 | .00001 | .00000 | .00072 | .00012 | .00080 | .00043 | .00131 | .00036 |
| %RSD | 10.751 | 119.52 | 7.4707 | 39.478 | 7.2314 | .51895 | .98879 | 69.986 | 487.46 | 73.805 | 737.56 | 8.0949 |
| #1 | .00392 | .00708 | .00207 | .00331 | .00013 | .00072 | .07349 | .00025 | .00073 | -.00028 | -.00075 | .00422 |
| #2 | .00457 | .08431 | .00186 | .00187 | .00015 | .00072 | .07247 | .00008 | -.00040 | -.00089 | .00110 | .00474 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00587** | **-.00093** | **-.00199** | **.00010** | **.00010** | **.00049** | **.00022** | **-.00049** | **-.00974** | **.00057** | **.00127** | **-.00094** |
| Stddev | .00147 | .01435 | .03070 | .00007 | .00008 | .00148 | .00007 | .00037 | .01796 | .00004 | .00020 | .00063 |
| %RSD | 25.133 | 1542.6 | 1542.6 | 76.384 | 86.540 | 300.73 | 31.247 | 75.961 | 184.35 | 7.0504 | 15.848 | 67.466 |
| #1 | .00482 | -.01107 | -.02370 | .00015 | .00015 | .00154 | .00026 | -.00023 | -.02244 | .00054 | .00142 | -.00138 |
| #2 | .00691 | .00921 | .01972 | .00005 | .00004 | -.00056 | .00017 | -.00075 | .00296 | .00060 | .00113 | -.00049 |
| Check ? | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00486 | | | | | | | | | | | |
| Low Limit | -.00486 | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9270.5** | **118870.** | **9761.0** |
| Stddev | 9.8 | 765. | 60.3 |
| %RSD | .10558 | .64387 | .61825 |
| #1 | 9277.4 | 119410. | 9803.7 |
| #2 | 9263.6 | 118330. | 9718.3 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 15:21:32 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01030** | **.11018** | **.01727** | **.10210** | **.00975** | **.00093** | **.10813** | **.21661** | **.00498** | **.01065** | **.01027** | **.01488** | **.11693** | **3.1074** |
| Stddev | .00031 | .00085 | .00250 | .00114 | .00000 | .00003 | .00060 | .00774 | .00015 | .00012 | .00024 | .00012 | .01050 | .0250 |
| %RSD | 2.9923 | .76974 | 14.493 | 1.1127 | .02349 | 2.7391 | .55463 | 3.5719 | 3.0057 | 1.0960 | 2.3159 | .78388 | 8.9797 | .80305 |
| #1 | .01008 | .11078 | .01550 | .10291 | .00975 | .00095 | .10771 | .21114 | .00508 | .01057 | .01044 | .01480 | .10951 | 3.1250 |
| #2 | .01051 | .10958 | .01904 | .10130 | .00974 | .00091 | .10856 | .22208 | .00487 | .01073 | .01010 | .01497 | .12436 | 3.0897 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01007** | **.21428** | **.01048** | **.02015** | **1.1102** | **.04164** | **2.8004** | **.01024** | **.00075** | **.01221** | **.01602** | **.48447** | **1.0368** | **.10022** |
| Stddev | .00023 | .00566 | .00006 | .00002 | .0039 | .00023 | .0023 | .00011 | .00006 | .00065 | .00051 | .00997 | .0213 | .00001 |
| %RSD | 2.2643 | 2.6435 | .61179 | .10918 | .35197 | .54837 | .08262 | 1.0963 | 7.4551 | 5.3111 | 3.1642 | 2.0581 | 2.0581 | .01029 |
| #1 | .00991 | .21829 | .01053 | .02017 | 1.1130 | .04148 | 2.8020 | .01016 | .00071 | .01176 | .01567 | .49152 | 1.0518 | .10022 |
| #2 | .01024 | .21028 | .01044 | .02014 | 1.1075 | .04181 | 2.7988 | .01032 | .00079 | .01267 | .01638 | .47741 | 1.0217 | .10023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01041** | **.01430** | **.01034** | **.01484** | **.07340** | **.01042** | **.02056** | **.01285** |
| Stddev | .00002 | .00059 | .00001 | .00034 | .02242 | .00026 | .00014 | .00206 |
| %RSD | .23838 | 4.1562 | .08407 | 2.3123 | 30.541 | 2.4897 | .65715 | 16.040 |
| #1 | .01039 | .01388 | .01035 | .01508 | .05755 | .01061 | .02046 | .01431 |
| #2 | .01042 | .01472 | .01034 | .01460 | .08925 | .01024 | .02065 | .01139 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9229.8** | **118190.** | **9759.2** |
| Stddev | 17.7 | 523. | 35.2 |
| %RSD | .19218 | .44263 | .36082 |
| #1 | 9217.3 | 118560. | 9734.3 |
| #2 | 9242.3 | 117820. | 9784.1 |

Sample Name: mb 280-186033/1-c Acquired: 8/14/2013 15:30:20 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00286** | **.00058** | **.00443** | **.00029** | **-.00001** | **.00143** | **.00447** | **-.00019** | **.00020** |
| Stddev | .00021 | .00039 | .00185 | .00008 | .00005 | .00001 | .00174 | .00082 | .00012 | .00003 |
| %RSD | 110.91 | 13.548 | 317.35 | 1.8070 | 16.231 | 142.19 | 121.90 | 18.239 | 64.401 | 16.238 |
| #1 | -.00004 | .00258 | .00189 | .00448 | .00026 | .00000 | .00266 | .00505 | -.00027 | .00018 |
| #2 | -.00033 | .00313 | -.00072 | .00437 | .00032 | -.00002 | .00020 | .00390 | -.00010 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **-.00074** | **.00972** | **.00661** | **-.00309** | **.00577** | **.00034** | **.00000** | **.02471** | **.00039** |
| Stddev | .00003 | .00039 | .00427 | .01676 | .00016 | .00184 | .00007 | .0002 | .01396 | .00012 |
| %RSD | 95.186 | 52.249 | 43.950 | 253.40 | 5.2784 | 31.900 | 21.085 | 10786. | 56.511 | 30.601 |
| #1 | -.00005 | -.00047 | .01274 | -.00524 | -.00297 | .00447 | .00039 | -.00015 | .03459 | .00031 |
| #2 | -.00001 | -.00101 | .00670 | .01847 | -.00320 | .00707 | .00029 | .00014 | .01484 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00119** | **-.00070** | **.00818** | **-.00093** | **.00269** | **-.00893** | **-.01910** | **.00041** | **.00006** | **.00062** |
| Stddev | .00236 | .00012 | .00271 | .00163 | .00462 | .02087 | .04466 | .00101 | .00004 | .00037 |
| %RSD | 198.09 | 16.551 | 33.150 | 174.77 | 171.85 | 233.77 | 233.77 | 246.04 | 67.527 | 59.952 |
| #1 | .00286 | -.00062 | .01010 | .00022 | -.00058 | -.02368 | -.05068 | -.00030 | .00003 | .00088 |
| #2 | -.00048 | -.00078 | .00626 | -.00208 | .00596 | .00583 | .01248 | .00112 | .00009 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **-.00054** | **.00346** | **.00080** | **.00147** | **-.00165** |
| Stddev | .00005 | .00062 | .03429 | .00014 | .00063 | .00321 |
| %RSD | 30.631 | 115.71 | 990.79 | 17.017 | 42.511 | 194.44 |
| #1 | .00021 | -.00098 | -.02078 | .00071 | .00191 | .00062 |
| #2 | .00014 | -.00010 | .02770 | .00090 | .00103 | -.00392 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9245.3** | **119300.** | **9746.1** |
| Stddev | 19.6 | 1. | 1.7 |
| %RSD | .21236 | .00064 | .01696 |
| #1 | 9259.2 | 119300. | 9747.3 |
| #2 | 9231.4 | 119300. | 9744.9 |

Sample Name: lcs 280-186033/2-c Acquired: 8/14/2013 15:32:36 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05104** | **2.0321** | **1.0463** | **1.0075** | **2.0412** | **.05159** | **2.1407** | **51.575** | **.10946** | **.51219** |
| Stddev | .00016 | .0049 | .0043 | .0006 | .0094 | .00067 | .0039 | .310 | .00045 | .00023 |
| %RSD | .31275 | .23987 | .41468 | .05410 | .46104 | 1.3032 | .18362 | .60038 | .41152 | .04474 |
| #1 | .05092 | 2.0355 | 1.0432 | 1.0079 | 2.0345 | .05111 | 2.1435 | 51.356 | .10978 | .51203 |
| #2 | .05115 | 2.0286 | 1.0494 | 1.0071 | 2.0479 | .05206 | 2.1379 | 51.794 | .10914 | .51236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20553** | **.26281** | **1.0485** | **52.289** | **1.0299** | **51.199** | **.51870** | **.99568** | **51.718** | **.50774** |
| Stddev | .00003 | .00050 | .0022 | .252 | .0010 | .065 | .00028 | .00218 | .228 | .00119 |
| %RSD | .01645 | .18953 | .20992 | .48287 | .09968 | .12736 | .05403 | .21895 | .44046 | .23434 |
| #1 | .20555 | .26246 | 1.0469 | 52.110 | 1.0292 | 51.153 | .51850 | .99722 | 51.557 | .50858 |
| #2 | .20551 | .26316 | 1.0500 | 52.468 | 1.0307 | 51.246 | .51890 | .99414 | 51.879 | .50690 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.403** | **.51713** | **-.00393** | **.49777** | **2.0478** | **10.134** | **21.687** | **1.9845** | **1.0455** | **.98643** |
| Stddev | .007 | .00075 | .00070 | .00356 | .0171 | .072 | .155 | .0113 | .0051 | .00194 |
| %RSD | .06311 | .14508 | 17.700 | .71440 | .83418 | .71341 | .71341 | .57112 | .48460 | .19639 |
| #1 | 10.407 | .51660 | -.00442 | .50029 | 2.0599 | 10.083 | 21.578 | 1.9925 | 1.0419 | .98506 |
| #2 | 10.398 | .51766 | -.00344 | .49526 | 2.0357 | 10.185 | 21.797 | 1.9765 | 1.0491 | .98780 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0239** | **2.0536** | **2.1547** | **.52207** | **.50828** | **.51643** |
| Stddev | .0006 | .0126 | .0394 | .00209 | .00095 | .00409 |
| %RSD | .05999 | .61558 | 1.8274 | .40080 | .18766 | .79140 |
| #1 | 1.0243 | 2.0626 | 2.1825 | .52355 | .50760 | .51354 |
| #2 | 1.0234 | 2.0447 | 2.1268 | .52059 | .50895 | .51932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8842.9** | **111310.** | **9568.5** |
| Stddev | 3.4 | 624. | 14.4 |
| %RSD | .03816 | .56081 | .15009 |
| #1 | 8840.5 | 110870. | 9578.6 |
| #2 | 8845.3 | 111750. | 9558.3 |

Sample Name: 280-45099-b-10-c  Acquired: 8/14/2013 15:34:44  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00702** | **.00058** | **.03944** | **.04588** | **-.00003** | **-.00254** | **81.405** | **.00024** | **-.00007** |
| Stddev | .00002 | .00011 | .00062 | .00050 | .00002 | .00005 | .00228 | .115 | .00009 | .00021 |
| %RSD | 17.059 | 1.5951 | 106.68 | 1.2595 | .05278 | 166.69 | 89.643 | .14186 | 37.086 | 319.74 |
| #1 | .00012 | .00710 | .00014 | .03909 | .04589 | .00001 | -.00415 | 81.486 | .00018 | -.00022 |
| #2 | .00015 | .00694 | .00101 | .03979 | .04586 | -.00007 | -.00093 | 81.323 | .00030 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00953** | **.00115** | **.00347** | **2.8148** | **.02402** | **40.183** | **.00029** | **.00257** | **89.741** | **.00085** |
| Stddev | .00001 | .00045 | .00084 | .0756 | .00241 | .082 | .00001 | .00021 | .130 | .00015 |
| %RSD | .15328 | 38.674 | 24.376 | 2.6862 | 10.025 | .20284 | 2.3325 | 8.3435 | .14507 | 17.238 |
| #1 | .00952 | .00147 | .00287 | 2.8683 | .02572 | 40.240 | .00030 | .00272 | 89.833 | .00095 |
| #2 | .00954 | .00084 | .00406 | 2.7613 | .02232 | 40.125 | .00029 | .00241 | 89.649 | .00074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03979** | **-.00112** | **53.564** | **-.00047** | **.00379** | **8.4852** | **18.158** | **-.00007** | **.16901** | **-.00014** |
| Stddev | .00180 | .00014 | .047 | .00260 | .00261 | .0228 | .049 | .00056 | .00065 | .00154 |
| %RSD | 4.5133 | 12.271 | .08716 | 548.61 | 68.737 | .26922 | .26922 | 801.78 | .38658 | 1088.9 |
| #1 | .04106 | -.00122 | 53.531 | .00137 | .00563 | 8.5014 | 18.193 | -.00046 | .16854 | -.00123 |
| #2 | .03852 | -.00103 | 53.597 | -.00231 | .00195 | 8.4691 | 18.124 | .00032 | .16947 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.00004** | **.02422** | **.00181** | **.00563** | **-.00271** |
| Stddev | .00001 | .00100 | .01199 | .00065 | .00020 | .00105 |
| %RSD | 1.3067 | 2628.8 | 49.490 | 35.808 | 3.5216 | 38.645 |
| #1 | .00059 | .00075 | .03270 | .00227 | .00549 | -.00345 |
| #2 | .00058 | -.00067 | .01575 | .00135 | .00578 | -.00197 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8742.6** | **109930.** | **9580.1** |
| Stddev | 3.5 | 221. | 11.9 |
| %RSD | .04026 | .20111 | .12408 |
| #1 | 8740.1 | 109780. | 9588.5 |
| #2 | 8745.1 | 110090. | 9571.7 |

Sample Name: 280-45099-b-10-cSD@5 Acquired: 8/14/2013 15:37:02 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **.00590** | **.00230** | **.01142** | **.00924** | **-.00002** | **-.00138** | **16.288** | **-.00007** | **.00016** |
| Stddev | .00030 | .00038 | .00110 | .00050 | .00008 | .00002 | .00241 | .030 | .00002 | .00002 |
| %RSD | 210.76 | 6.3753 | 47.803 | 4.3827 | .82153 | 98.718 | 174.39 | .18347 | 26.437 | 15.617 |
| #1 | .00007 | .00616 | .00308 | .01107 | .00918 | -.00001 | .00032 | 16.267 | -.00008 | .00014 |
| #2 | -.00035 | .00563 | .00152 | .01178 | .00929 | -.00004 | -.00308 | 16.309 | -.00006 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00181** | **-.00005** | **.00589** | **.60549** | **.00242** | **8.0044** | **.00015** | **.00026** | **18.136** | **.00025** |
| Stddev | .00005 | .00022 | .00195 | .01609 | .00340 | .0087 | .00002 | .00002 | .387 | .00013 |
| %RSD | 2.5300 | 444.77 | 33.085 | 2.6580 | 140.68 | .10868 | 10.296 | 7.8790 | 2.1331 | 53.080 |
| #1 | .00184 | .00011 | .00726 | .61687 | .00482 | 8.0106 | .00016 | .00024 | 17.863 | .00034 |
| #2 | .00178 | -.00021 | .00451 | .59411 | .00001 | 7.9983 | .00014 | .00027 | 18.410 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00793** | **.00011** | **10.389** | **-.00066** | **.00550** | **1.6644** | **3.5618** | **-.00002** | **.03429** | **.00014** |
| Stddev | .00082 | .00045 | .005 | .00092 | .00004 | .0145 | .0311 | .00023 | .00013 | .00047 |
| %RSD | 10.355 | 424.22 | .04742 | 139.42 | .65570 | .87365 | .87365 | 1290.3 | .38807 | 342.96 |
| #1 | .00851 | -.00021 | 10.393 | -.00001 | .00552 | 1.6747 | 3.5838 | .00015 | .03438 | -.00020 |
| #2 | .00734 | .00043 | 10.386 | -.00131 | .00547 | 1.6541 | 3.5398 | -.00018 | .03419 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **-.00012** | **-.00844** | **.00072** | **.00281** | **-.00203** |
| Stddev | .00013 | .00057 | .02094 | .00009 | .00006 | .00110 |
| %RSD | 69.911 | 482.68 | 248.19 | 12.340 | 2.0861 | 54.121 |
| #1 | .00009 | .00029 | -.02325 | .00066 | .00285 | -.00125 |
| #2 | .00027 | -.00052 | .00637 | .00079 | .00277 | -.00280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9048.9** | **115100.** | **9631.2** |
| Stddev | 1.6 | 236. | 4.6 |
| %RSD | .01751 | .20461 | .04822 |
| #1 | 9050.0 | 115270. | 9634.5 |
| #2 | 9047.8 | 114940. | 9627.9 |

Sample Name: 280-45099-b-10-d ms  Acquired: 8/14/2013 15:39:21  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05194** | **2.0076** | **1.0657** | **1.0352** | **2.0694** | **.05124** | F **2.1177** | **131.69** | **.11014** | **.50734** |
| Stddev | .00045 | .0003 | .0024 | .0013 | .0059 | .00016 | .0027 | .19 | .00005 | .00023 |
| %RSD | .86440 | .01476 | .22128 | .12206 | .28434 | .32193 | .12655 | .14240 | .04384 | .04455 |
| #1 | .05226 | 2.0074 | 1.0640 | 1.0344 | 2.0736 | .05135 | 2.1158 | 131.83 | .11017 | .50750 |
| #2 | .05162 | 2.0078 | 1.0674 | 1.0361 | 2.0653 | .05112 | 2.1196 | 131.56 | .11011 | .50718 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21456** | **.26490** | **1.0305** | **55.371** | **1.0546** | **90.860** | **.51922** | **.99933** | **141.02** | **.50070** |
| Stddev | .00014 | .00167 | .0038 | .059 | .0038 | .466 | .00206 | .00029 | .56 | .00036 |
| %RSD | .06447 | .63174 | .36708 | .10668 | .35822 | .51297 | .39708 | .02940 | .39455 | .07184 |
| #1 | .21466 | .26609 | 1.0332 | 55.412 | 1.0573 | 91.190 | .52068 | .99953 | 141.42 | .50045 |
| #2 | .21447 | .26372 | 1.0278 | 55.329 | 1.0520 | 90.531 | .51776 | .99912 | 140.63 | .50096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.629** | **.50407** | **53.786** | **.50351** | **2.0570** | **18.598** | **39.800** | **1.9621** | **1.2171** | **.99651** |
| Stddev | .005 | .00002 | .076 | .00022 | .0030 | .062 | .133 | .0019 | .0020 | .00281 |
| %RSD | .04641 | .00429 | .14166 | .04460 | .14405 | .33500 | .33500 | .09810 | .16213 | .28227 |
| #1 | 10.625 | .50406 | 53.732 | .50335 | 2.0591 | 18.642 | 39.894 | 1.9635 | 1.2185 | .99850 |
| #2 | 10.632 | .50409 | 53.839 | .50367 | 2.0549 | 18.554 | 39.706 | 1.9608 | 1.2157 | .99452 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0372** | **1.9739** | **2.1740** | **.53090** | **.51431** | **.51566** |
| Stddev | .0050 | .0054 | .0175 | .00178 | .00314 | .00085 |
| %RSD | .48392 | .27440 | .80704 | .33512 | .61010 | .16436 |
| #1 | 1.0408 | 1.9777 | 2.1615 | .53215 | .51653 | .51506 |
| #2 | 1.0337 | 1.9700 | 2.1864 | .52964 | .51209 | .51626 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8595.4** | **107700.** | **9491.4** |
| Stddev | 23.9 | 479. | 7.8 |
| %RSD | .27863 | .44512 | .08232 |
| #1 | 8578.4 | 107360. | 9497.0 |
| #2 | 8612.3 | 108040. | 9485.9 |

Sample Name: 280-45099-b-10-e msd  Acquired: 8/14/2013 15:41:27  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05195** | **2.0138** | **1.0738** | **1.0352** | **2.0796** | **.05153** | F **2.1117** | **132.57** | **.11040** | **.50756** |
| Stddev | .00006 | .0032 | .0021 | .0006 | .0080 | .00031 | .0055 | .27 | .00025 | .00039 |
| %RSD | .12135 | .16002 | .19134 | .06247 | .38425 | .60569 | .25835 | .20462 | .22606 | .07661 |
| #1 | .05199 | 2.0115 | 1.0723 | 1.0348 | 2.0740 | .05131 | 2.1078 | 132.37 | .11058 | .50728 |
| #2 | .05191 | 2.0161 | 1.0752 | 1.0357 | 2.0853 | .05175 | 2.1156 | 132.76 | .11022 | .50783 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21470** | **.26559** | **1.5648** | **55.665** | **1.0577** | **90.693** | **.52311** | **.99857** | **141.30** | **.50204** |
| Stddev | .00008 | .00070 | .0032 | .210 | .0003 | .873 | .00006 | .00146 | .11 | .00019 |
| %RSD | .03910 | .26183 | .20454 | .37695 | .03046 | .96309 | .01242 | .14620 | .08074 | .03826 |
| #1 | .21464 | .26608 | 1.5625 | 55.517 | 1.0579 | 90.075 | .52316 | .99754 | 141.22 | .50218 |
| #2 | .21476 | .26510 | 1.5671 | 55.814 | 1.0575 | 91.310 | .52307 | .99961 | 141.38 | .50190 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.628** | **.50400** | **54.108** | **.50176** | **2.0544** | **18.811** | **40.257** | **1.9626** | **1.2219** | **.99661** |
| Stddev | .013 | .00070 | .005 | .00229 | .0001 | .138 | .295 | .0003 | .0039 | .00369 |
| %RSD | .12423 | .13878 | .00878 | .45546 | .00532 | .73267 | .73267 | .01561 | .31555 | .37024 |
| #1 | 10.619 | .50351 | 54.104 | .50338 | 2.0544 | 18.714 | 40.048 | 1.9624 | 1.2192 | .99400 |
| #2 | 10.637 | .50450 | 54.111 | .50015 | 2.0543 | 18.909 | 40.465 | 1.9628 | 1.2247 | .99922 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0394** | **1.9767** | **2.1796** | **.53209** | **.51406** | **.52130** |
| Stddev | .0017 | .0010 | .0067 | .00019 | .00062 | .00093 |
| %RSD | .15828 | .04944 | .30783 | .03540 | .12047 | .17919 |
| #1 | 1.0406 | 1.9774 | 2.1748 | .53195 | .51363 | .52064 |
| #2 | 1.0383 | 1.9760 | 2.1843 | .53222 | .51450 | .52196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8589.2** | **107410.** | **9482.2** |
| Stddev | 4.2 | 138. | 3.2 |
| %RSD | .04873 | .12853 | .03409 |
| #1 | 8592.1 | 107510. | 9479.9 |
| #2 | 8586.2 | 107310. | 9484.5 |

Sample Name: 280-45099-b-10-cPDS  Acquired: 8/14/2013 15:43:36  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04258** | **1.0960** | **.21519** | **.13678** | **.14834** | **.05257** | **-.00296** | **100.84** | **.05518** | **.05288** |
| Stddev | .00026 | .0063 | .00232 | .00102 | .00008 | .00030 | .00260 | .18 | .00031 | .00022 |
| %RSD | .61746 | .57390 | 1.0766 | .74286 | .05411 | .57296 | 87.831 | .17797 | .55750 | .41372 |
| #1 | .04276 | 1.0915 | .21355 | .13750 | .14828 | .05236 | -.00479 | 100.72 | .05540 | .05272 |
| #2 | .04239 | 1.1004 | .21683 | .13606 | .14840 | .05278 | -.00112 | 100.97 | .05497 | .05303 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06213** | **.05507** | **1.0595** | **24.334** | **.12867** | **60.104** | **.05374** | **.05158** | **109.31** | **.05251** |
| Stddev | .00019 | .00117 | .0032 | .000 | .00231 | .110 | .00009 | .00028 | .18 | .00011 |
| %RSD | .30526 | 2.1273 | .29879 | .00183 | 1.7988 | .18259 | .16530 | .53564 | .16423 | .21657 |
| #1 | .06227 | .05589 | 1.0573 | 24.334 | .12703 | 60.181 | .05368 | .05138 | 109.18 | .05259 |
| #2 | .06200 | .05424 | 1.0617 | 24.334 | .13031 | 60.026 | .05380 | .05177 | 109.43 | .05243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.2229** | **.10310** | **52.973** | **.10389** | **.21449** | **13.328** | **28.522** | **.09816** | **.22093** | **.20560** |
| Stddev | .0049 | .00075 | .001 | .00063 | .00113 | .056 | .119 | .00036 | .00064 | .00188 |
| %RSD | .22066 | .72363 | .00154 | .60392 | .52476 | .41816 | .41816 | .37079 | .28902 | .91404 |
| #1 | 2.2263 | .10258 | 52.973 | .10433 | .21369 | 13.289 | 28.438 | .09842 | .22048 | .20427 |
| #2 | 2.2194 | .10363 | 52.972 | .10344 | .21528 | 13.368 | 28.607 | .09791 | .22138 | .20693 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05113** | **.20796** | **.54953** | **.05650** | **.21449** | **.04967** |
| Stddev | .00061 | .00067 | .00369 | .00064 | .00104 | .00083 |
| %RSD | 1.1898 | .32230 | .67070 | 1.1262 | .48330 | 1.6665 |
| #1 | .05070 | .20748 | .54692 | .05605 | .21375 | .04908 |
| #2 | .05156 | .20843 | .55213 | .05695 | .21522 | .05025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8669.6** | **108950.** | **9553.9** |
| Stddev | 10.9 | 429. | 22.4 |
| %RSD | .12525 | .39383 | .23401 |
| #1 | 8677.3 | 109250. | 9569.7 |
| #2 | 8661.9 | 108640. | 9538.1 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 15:45:48 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **49.922** | **.00453** | **.00592** | **.00065** | **-.00005** | **1.0070** | **-.00654** | **-.00024** | **.00036** | **-.00027** | **.00225** | **49.250** |
| Stddev | .00015 | .142 | .00092 | .00052 | .00033 | .00001 | .0025 | .00458 | .00009 | .00016 | .00011 | .00041 | .213 |
| %RSD | 66.674 | .28497 | 20.317 | 8.7725 | 51.544 | 12.063 | .25158 | 69.999 | 35.677 | 44.622 | 42.092 | 18.196 | .43214 |
| #1 | .00012 | 49.822 | .00518 | .00628 | .00041 | -.00006 | 1.0088 | -.00330 | -.00018 | .00024 | -.00019 | .00196 | 49.099 |
| #2 | .00033 | 50.023 | .00388 | .00555 | .00088 | -.00005 | 1.0053 | -.00977 | -.00031 | .00047 | -.00035 | .00254 | 49.400 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24501** | **.00154** | **-.01169** | **.00003** | **.00037** | **247.89** | **.00062** | **.00377** | **.00079** | **5.0780** | **.00260** | **.00187** | **-.00061** |
| Stddev | .03107 | .00176 | .00252 | .00000 | .00008 | .34 | .00006 | .00017 | .00066 | .0294 | .00054 | .00396 | .00650 |
| %RSD | 12.680 | 114.08 | 21.552 | 14.416 | 22.546 | .13818 | 9.2744 | 4.4109 | 82.509 | .57869 | 20.795 | 212.26 | 1061.3 |
| #1 | .26698 | .00279 | -.00991 | .00003 | .00043 | 247.65 | .00066 | .00365 | .00126 | 5.0988 | .00222 | -.00094 | .00398 |
| #2 | .22304 | .00030 | -.01348 | .00002 | .00031 | 248.13 | .00058 | .00388 | .00033 | 5.0572 | .00298 | .00467 | -.00521 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00131** | **.00075** | **.00038** | **4.9672** | **-.00057** | **-.00008** | **10.030** | **.00139** | **.00003** | **.02321** |
| Stddev | .01390 | .00049 | .00016 | .0052 | .00018 | .00116 | .037 | .00026 | .00080 | .00542 |
| %RSD | 1061.3 | 64.854 | 40.681 | .10537 | 32.217 | 1417.8 | .36976 | 18.760 | 2930.1 | 23.366 |
| #1 | .00852 | .00041 | .00049 | 4.9709 | -.00070 | .00074 | 10.004 | .00158 | -.00054 | .01937 |
| #2 | -.01114 | .00110 | .00027 | 4.9635 | -.00044 | -.00090 | 10.057 | .00121 | .00059 | .02704 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8791.2** | **109550.** | **9541.2** |
| Stddev | 30.5 | 325. | 22.5 |
| %RSD | .34740 | .29623 | .23589 |
| #1 | 8812.8 | 109780. | 9557.1 |
| #2 | 8769.6 | 109320. | 9525.3 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 15:48:09 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50261** | **.52202** | **.98518** | **.49810** | **.48306** | **.49483** | **.00049** | **4.9815** | **.50205** | **.51093** | **.49693** | **.50982** | **2.4915** |
| Stddev | .00071 | .00028 | .00206 | .00089 | .00104 | .00048 | .00074 | .0006 | .00004 | .00003 | .00027 | .00074 | .0019 |
| %RSD | .14125 | .05312 | .20877 | .17966 | .21627 | .09772 | 150.76 | .01159 | .00852 | .00675 | .05408 | .14425 | .07439 |
| #1 | .50211 | .52222 | .98663 | .49747 | .48232 | .49517 | -.00003 | 4.9819 | .50208 | .51096 | .49674 | .50930 | 2.4902 |
| #2 | .50311 | .52183 | .98373 | .49874 | .48379 | .49449 | .00101 | 4.9811 | .50201 | .51091 | .49712 | .51034 | 2.4928 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.835** | **.99350** | **19.780** | **.50872** | **.49149** | **5.1921** | **.50325** | **.97794** | **1.0176** | **.00291** | **1.0174** | **.99287** | **4.9344** |
| Stddev | .090 | .00270 | .012 | .00023 | .00183 | .0136 | .00049 | .00032 | .0019 | .00231 | .0028 | .00087 | .0062 |
| %RSD | .17971 | .27196 | .05951 | .04463 | .37192 | .26280 | .09642 | .03318 | .18171 | 79.248 | .27789 | .08809 | .12577 |
| #1 | 49.772 | .99541 | 19.772 | .50888 | .49279 | 5.2017 | .50359 | .97771 | 1.0189 | .00128 | 1.0194 | .99225 | 4.9388 |
| #2 | 49.898 | .99159 | 19.789 | .50855 | .49020 | 5.1824 | .50291 | .97817 | 1.0163 | .00454 | 1.0154 | .99349 | 4.9301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.560** | **.99714** | **.50073** | **-.00353** | **.50930** | **1.0422** | **-.00260** | **.50226** | **.49611** | **.50380** |
| Stddev | .013 | .00252 | .00039 | .00106 | .00093 | .0017 | .00827 | .00177 | .00238 | .00175 |
| %RSD | .12577 | .25253 | .07757 | 30.023 | .18272 | .16327 | 318.40 | .35168 | .48025 | .34656 |
| #1 | 10.569 | .99892 | .50046 | -.00428 | .50864 | 1.0434 | .00325 | .50351 | .49443 | .50256 |
| #2 | 10.550 | .99536 | .50101 | -.00278 | .50995 | 1.0410 | -.00845 | .50102 | .49780 | .50503 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8989.1** | **113030.** | **9573.8** |
| Stddev | 7.9 | 319. | 8.2 |
| %RSD | .08827 | .28222 | .08527 |
| #1 | 8983.5 | 113250. | 9579.6 |
| #2 | 8994.7 | 112800. | 9568.0 |

Sample Name: CCB Acquired: 8/14/2013 15:50:16 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00038** | **.00097** | **.00428** | **.00404** | **-.00008** | **-.00006** | **.00213** | **-.00075** | **-.00019** | **.00021** | **-.00006** | **-.00016** |
| Stddev | .00026 | .00117 | .00122 | .00008 | .00003 | .00008 | .00143 | .00186 | .00004 | .00006 | .00003 | .00050 |
| %RSD | 69.418 | 120.58 | 28.510 | 1.9194 | 33.926 | 127.94 | 67.146 | 248.65 | 22.387 | 28.557 | 49.510 | 316.44 |
| #1 | -.00056 | .00014 | .00515 | .00409 | -.00006 | -.00001 | .00314 | .00057 | -.00016 | .00017 | -.00008 | .00019 |
| #2 | -.00019 | .00179 | .00342 | .00398 | -.00010 | -.00012 | .00112 | -.00206 | -.00022 | .00025 | -.00004 | -.00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00045** | **.15164** | **-.00077** | **.00064** | **.00010** | **.00061** | **.06506** | **.00008** | **.00211** | **-.00095** | **.00404** | W **.00483** |
| Stddev | .00248 | .04625 | .00109 | .00151 | .00000 | .00015 | .00525 | .00012 | .00025 | .00120 | .00217 | .00062 |
| %RSD | 545.62 | 30.500 | 141.46 | 235.14 | 2.8290 | 25.182 | 8.0711 | 150.70 | 11.733 | 126.23 | 53.845 | 12.820 |
| #1 | .00130 | .18434 | .00000 | .00171 | .00010 | .00050 | .06877 | .00017 | .00193 | -.00010 | .00558 | .00439 |
| #2 | -.00221 | .11894 | -.00154 | -.00043 | .00010 | .00072 | .06135 | -.00001 | .00228 | -.00180 | .00250 | .00526 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00311** | **-.00729** | **-.01560** | **-.00036** | **.00000** | **-.00047** | **.00046** | **.00057** | **.00062** | **.00090** | **.00080** | **-.00161** |
| Stddev | .00134 | .00079 | .00169 | .00016 | .0001 | .00096 | .00013 | .00055 | .00775 | .00020 | .00011 | .00045 |
| %RSD | 43.039 | 10.852 | 10.852 | 45.213 | 1095.0 | 202.06 | 28.840 | 97.092 | 1246.6 | 21.854 | 14.427 | 27.748 |
| #1 | .00406 | -.00673 | -.01440 | -.00047 | -.00004 | .00020 | .00056 | .00096 | .00610 | .00104 | .00088 | -.00192 |
| #2 | .00216 | -.00785 | -.01680 | -.00024 | .00003 | -.00115 | .00037 | .00018 | -.00486 | .00076 | .00071 | -.00129 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9040.3** | **115340.** | **9421.3** |
| Stddev | 12.5 | 352. | 52.2 |
| %RSD | .13818 | .30553 | .55368 |
| #1 | 9031.5 | 115590. | 9458.2 |
| #2 | 9049.1 | 115090. | 9384.4 |

Sample Name: CCVL-2197715 Acquired: 8/14/2013 15:52:31 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01000** | **.10959** | **.01741** | **.09674** | **.01019** | **.00091** | **.10934** | **.20862** | **.00503** | **.01089** | **.01033** | **.01472** | **.10243** |
| Stddev | .00001 | .00008 | .00121 | .00001 | .00001 | .00007 | .00549 | .00113 | .00010 | .00013 | .00010 | .00037 | .00211 |
| %RSD | .09316 | .07586 | 6.9279 | .01179 | .09651 | 8.1094 | 5.0234 | .53993 | 1.9796 | 1.2133 | .94180 | 2.5200 | 2.0582 |
| #1 | .00999 | .10953 | .01826 | .09675 | .01018 | .00086 | .11322 | .20782 | .00510 | .01098 | .01040 | .01446 | .10392 |
| #2 | .01001 | .10965 | .01656 | .09673 | .01020 | .00097 | .10545 | .20941 | .00496 | .01080 | .01026 | .01499 | .10094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1365** | **.01171** | **.20067** | **.01044** | **.01972** | **1.1369** | **.04149** | **2.8044** | **.00912** | **.00355** | **.01273** | **.01691** | **.48655** |
| Stddev | .0004 | .00276 | .00322 | .00001 | .00002 | .0005 | .00009 | .0006 | .00107 | .00092 | .00292 | .00545 | .01912 |
| %RSD | .01153 | 23.536 | 1.6053 | .07723 | .09690 | .04273 | .21985 | .02297 | 11.726 | 26.071 | 22.911 | 32.260 | 3.9301 |
| #1 | 3.1363 | .00976 | .20295 | .01044 | .01974 | 1.1373 | .04142 | 2.8039 | .00836 | .00289 | .01067 | .02076 | .50007 |
| #2 | 3.1368 | .01366 | .19839 | .01045 | .01971 | 1.1366 | .04155 | 2.8048 | .00988 | .00420 | .01479 | .01305 | .47303 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0412** | **.10018** | **.01036** | **.01327** | **.01031** | **.01490** | F **.09778** | **.01057** | **.02148** | **.01254** |
| Stddev | .0409 | .00053 | .00012 | .00006 | .00015 | .00049 | .02606 | .00002 | .00013 | .00143 |
| %RSD | 3.9301 | .52896 | 1.1133 | .47142 | 1.4267 | 3.2813 | 26.656 | .21147 | .59145 | 11.430 |
| #1 | 1.0702 | .09980 | .01028 | .01332 | .01042 | .01455 | .11621 | .01059 | .02139 | .01355 |
| #2 | 1.0123 | .10055 | .01044 | .01323 | .01021 | .01524 | .07935 | .01055 | .02157 | .01153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9026.5** | **114840.** | **9444.8** |
| Stddev | 22.7 | 354. | 4.6 |
| %RSD | .25149 | .30819 | .04819 |
| #1 | 9010.5 | 114590. | 9441.5 |
| #2 | 9042.6 | 115090. | 9448.0 |

Sample Name: 280-45099-b-2-c  Acquired: 8/14/2013 15:54:49  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.01069** | **.00106** | **.01160** | **.02632** | **-.00002** | **-.00337** | **77.749** | **.00040** | **.00026** |
| Stddev | .00040 | .00010 | .00045 | .00002 | .00011 | .00007 | .00093 | .116 | .00005 | .00029 |
| %RSD | 151.64 | .94159 | 42.233 | .20778 | .43282 | 350.31 | 27.660 | .14957 | 12.245 | 112.25 |
| #1 | .00055 | .01076 | .00137 | .01161 | .02640 | -.00007 | -.00403 | 77.831 | .00037 | .00046 |
| #2 | -.00002 | .01062 | .00074 | .01158 | .02624 | .00003 | -.00271 | 77.667 | .00044 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **-.00008** | **.01163** | **.39093** | **.00778** | **27.541** | **.00306** | **.00078** | **39.273** | **.00168** |
| Stddev | .00008 | .00030 | .00285 | .05509 | .00404 | .029 | .00001 | .00005 | .129 | .00014 |
| %RSD | 8.3835 | 362.24 | 24.477 | 14.092 | 51.916 | .10633 | .39971 | 6.9346 | .32744 | 8.4732 |
| #1 | .00095 | -.00030 | .00961 | .35198 | .01064 | 27.520 | .00307 | .00081 | 39.182 | .00158 |
| #2 | .00107 | .00013 | .01364 | .42989 | .00492 | 27.562 | .00305 | .00074 | 39.364 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03078** | **-.00116** | **59.372** | **.00100** | **.00718** | **7.2441** | **15.502** | **.00037** | **.21379** | **-.00024** |
| Stddev | .00028 | .00061 | .072 | .00031 | .00015 | .0237 | .051 | .00023 | .00053 | .00054 |
| %RSD | .89759 | 52.571 | .12184 | 31.158 | 2.0741 | .32731 | .32731 | 62.514 | .24829 | 229.83 |
| #1 | .03058 | -.00073 | 59.320 | .00078 | .00729 | 7.2609 | 15.538 | .00021 | .21417 | .00015 |
| #2 | .03097 | -.00159 | 59.423 | .00122 | .00708 | 7.2273 | 15.467 | .00054 | .21342 | -.00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **-.00078** | **.01677** | **.00141** | **.00484** | **-.00283** |
| Stddev | .00060 | .00058 | .01713 | .00011 | .00018 | .00034 |
| %RSD | 62.822 | 73.921 | 102.11 | 7.6188 | 3.6160 | 12.059 |
| #1 | .00138 | -.00037 | .02888 | .00148 | .00472 | -.00259 |
| #2 | .00053 | -.00119 | .00466 | .00133 | .00497 | -.00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8800.0** | **111250.** | **9514.3** |
| Stddev | 17.9 | 348. | 33.0 |
| %RSD | .20319 | .31257 | .34714 |
| #1 | 8787.4 | 111010. | 9537.6 |
| #2 | 8812.7 | 111500. | 9490.9 |

Sample Name: 280-45099-b-3-c  Acquired: 8/14/2013 15:57:06  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.29131** | **.00280** | **.01419** | **.05021** | **-.00006** | **-.00157** | **50.567** | **.00037** | **.00009** |
| Stddev | .00053 | .00461 | .00362 | .00003 | .00017 | .00002 | .00128 | .218 | .00034 | .00031 |
| %RSD | 361.56 | 1.5839 | 129.14 | .22892 | .33938 | 34.114 | 81.783 | .43084 | 92.998 | 346.01 |
| #1 | -.00023 | .28804 | .00024 | .01416 | .05009 | -.00007 | -.00248 | 50.413 | .00061 | -.00013 |
| #2 | .00052 | .29457 | .00536 | .01421 | .05033 | -.00004 | -.00066 | 50.721 | .00013 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01480** | **.00054** | **.35213** | **.46805** | **.00958** | **20.141** | **.00357** | **.00216** | **27.983** | **.00468** |
| Stddev | .00019 | .00026 | .00140 | .06378 | .00203 | .134 | .00004 | .00000 | .566 | .00040 |
| %RSD | 1.2613 | 48.373 | .39836 | 13.628 | 21.241 | .66510 | 1.0523 | .17192 | 2.0231 | 8.5322 |
| #1 | .01493 | .00072 | .35114 | .42295 | .01102 | 20.235 | .00359 | .00217 | 27.583 | .00496 |
| #2 | .01467 | .00035 | .35312 | .51315 | .00814 | 20.046 | .00354 | .00216 | 28.383 | .00440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02718** | **-.00014** | **21.177** | **.00148** | **.00300** | **8.9492** | **19.151** | **.00045** | **.13262** | **-.00003** |
| Stddev | .00000 | .00125 | .013 | .00122 | .00241 | .0684 | .146 | .00059 | .00045 | .00051 |
| %RSD | .00503 | 888.75 | .06211 | 82.657 | 80.384 | .76427 | .76427 | 131.05 | .34249 | 1967.7 |
| #1 | .02717 | -.00103 | 21.168 | .00062 | .00470 | 8.9009 | 19.048 | .00086 | .13230 | -.00039 |
| #2 | .02718 | .00074 | 21.186 | .00235 | .00129 | 8.9976 | 19.255 | .00003 | .13294 | .00034 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00363** | **-.00134** | **.01648** | **.00128** | **.00379** | **-.00090** |
| Stddev | .00002 | .00055 | .02558 | .00028 | .00034 | .00004 |
| %RSD | .50609 | 41.262 | 155.19 | 22.268 | 8.8517 | 4.3747 |
| #1 | .00362 | -.00173 | .03457 | .00148 | .00402 | -.00092 |
| #2 | .00365 | -.00095 | -.00160 | .00108 | .00355 | -.00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9021.3** | **113880.** | **9712.9** |
| Stddev | 4.6 | 680. | 68.5 |
| %RSD | .05106 | .59754 | .70501 |
| #1 | 9018.1 | 113400. | 9761.3 |
| #2 | 9024.6 | 114360. | 9664.5 |

Sample Name: 280-45099-b-4-c  Acquired: 8/14/2013 15:59:21  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00932** | **.00179** | **.00727** | **.04917** | **-.00001** | **-.00066** | **28.965** | **.00020** | **.00000** |
| Stddev | .00006 | .00014 | .00062 | .00001 | .00031 | .00000 | .00100 | .026 | .00028 | .0000 |
| %RSD | 235.98 | 1.5207 | 34.644 | .07268 | .62303 | 17.689 | 150.83 | .08978 | 139.22 | 2257.9 |
| #1 | .00007 | .00942 | .00223 | .00727 | .04939 | -.00001 | -.00136 | 28.947 | .00000 | -.00003 |
| #2 | -.00002 | .00922 | .00135 | .00728 | .04896 | -.00001 | .00004 | 28.983 | .00040 | .00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.00017** | **.01329** | **.64879** | **.00092** | **14.812** | **.00075** | **.00024** | **58.930** | **.00066** |
| Stddev | .00001 | .00007 | .00006 | .01242 | .00034 | .038 | .00002 | .00020 | .267 | .00012 |
| %RSD | 2.2009 | 44.424 | .47145 | 1.9147 | 37.029 | .25365 | 2.8766 | 81.457 | .45271 | 17.384 |
| #1 | .00037 | .00022 | .01333 | .64001 | .00068 | 14.786 | .00074 | .00010 | 58.741 | .00074 |
| #2 | .00036 | .00011 | .01324 | .65758 | .00116 | 14.839 | .00077 | .00039 | 59.119 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03879** | **-.00143** | **17.429** | **.00045** | **.00367** | **8.2355** | **17.624** | **.00011** | **.08903** | **-.00015** |
| Stddev | .00062 | .00125 | .005 | .00074 | .00483 | .0256 | .055 | .00058 | .00045 | .00258 |
| %RSD | 1.5990 | 87.565 | .03141 | 165.00 | 131.89 | .31135 | .31135 | 518.15 | .50526 | 1744.6 |
| #1 | .03923 | -.00055 | 17.433 | .00097 | .00708 | 8.2537 | 17.663 | .00052 | .08871 | .00168 |
| #2 | .03835 | -.00232 | 17.425 | -.00007 | .00025 | 8.2174 | 17.585 | -.00030 | .08935 | -.00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **-.00119** | **.01799** | **.00142** | **.00321** | **-.00264** |
| Stddev | .00024 | .00035 | .05751 | .00003 | .00026 | .00073 |
| %RSD | 40.492 | 29.490 | 319.61 | 2.4458 | 8.2340 | 27.687 |
| #1 | .00043 | -.00094 | -.02267 | .00140 | .00302 | -.00315 |
| #2 | .00077 | -.00144 | .05866 | .00145 | .00339 | -.00212 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9033.4** | **115080.** | **9858.7** |
| Stddev | 8.0 | 301. | 39.5 |
| %RSD | .08827 | .26129 | .40063 |
| #1 | 9039.0 | 115290. | 9830.8 |
| #2 | 9027.7 | 114870. | 9886.6 |

Sample Name: 280-45099-b-11-h  Acquired: 8/14/2013 16:01:41  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186846 Q4 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **.00696** | **.00165** | **.01259** | **.03334** | **.00000** | **-.00342** | **17.330** | **.00013** | **.00002** |
| Stddev | .00020 | .00003 | .00117 | .00065 | .00013 | .0000 | .00067 | .023 | .00020 | .00003 |
| %RSD | 72.934 | .43818 | 70.723 | 5.1358 | .39422 | 69.679 | 19.539 | .13421 | 147.37 | 148.75 |
| #1 | -.00014 | .00698 | .00248 | .01304 | .03325 | .00000 | -.00389 | 17.314 | .00027 | .00000 |
| #2 | -.00042 | .00694 | .00083 | .01213 | .03343 | .00000 | -.00294 | 17.347 | -.00001 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00154** | **.00035** | **.01143** | **.65779** | **.00379** | **7.8524** | **.00109** | **.00000** | **21.750** | **.00208** |
| Stddev | .00003 | .00002 | .00169 | .02621 | .00278 | .0014 | .00001 | .0000 | .179 | .00021 |
| %RSD | 2.1328 | 4.8092 | 14.779 | 3.9848 | 73.417 | .01809 | .98674 | 1707.5 | .82299 | 9.9203 |
| #1 | .00157 | .00034 | .01262 | .63926 | .00182 | 7.8534 | .00109 | .00003 | 21.623 | .00223 |
| #2 | .00152 | .00037 | .01023 | .67632 | .00576 | 7.8514 | .00110 | -.00003 | 21.876 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02625** | **-.00135** | **10.217** | **-.00069** | **.00420** | **11.805** | **25.262** | **.00014** | **.07535** | **-.00066** |
| Stddev | .00032 | .00040 | .005 | .00116 | .00025 | .013 | .027 | .00023 | .00011 | .00319 |
| %RSD | 1.2231 | 29.561 | .05074 | 168.48 | 5.9909 | .10621 | .10621 | 165.58 | .14990 | 480.64 |
| #1 | .02603 | -.00107 | 10.220 | .00013 | .00438 | 11.796 | 25.243 | -.00002 | .07527 | .00159 |
| #2 | .02648 | -.00163 | 10.213 | -.00151 | .00403 | 11.814 | 25.281 | .00030 | .07543 | -.00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **-.00056** | **.02202** | **.00081** | **.00304** | **-.00206** |
| Stddev | .00012 | .00023 | .03988 | .00005 | .00025 | .00071 |
| %RSD | 32.745 | 40.786 | 181.07 | 5.9912 | 8.0959 | 34.537 |
| #1 | .00029 | -.00072 | -.00617 | .00077 | .00286 | -.00256 |
| #2 | .00046 | -.00040 | .05022 | .00084 | .00321 | -.00155 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9141.9** | **116750.** | **9769.3** |
| Stddev | 6.7 | 315. | 46.7 |
| %RSD | .07353 | .26940 | .47764 |
| #1 | 9146.7 | 116530. | 9736.3 |
| #2 | 9137.2 | 116970. | 9802.3 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 16:04:00 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00093** | **50.316** | **.00483** | **.00337** | **.00046** | **-.00012** | **1.0158** | **-.00766** | **.00000** | **.00007** | **-.00021** | **.00281** | **49.348** |
| Stddev | .00005 | .138 | .00447 | .00017 | .00015 | .00003 | .0022 | .00205 | .0004 | .00027 | .00012 | .00057 | .167 |
| %RSD | 5.0845 | .27399 | 92.715 | 5.0742 | 32.992 | 29.236 | .21649 | 26.706 | 8199.5 | 393.35 | 57.874 | 20.095 | .33823 |
| #1 | .00097 | 50.218 | .00166 | .00325 | .00035 | -.00009 | 1.0143 | -.00911 | .00025 | .00026 | -.00013 | .00321 | 49.230 |
| #2 | .00090 | 50.413 | .00799 | .00349 | .00057 | -.00014 | 1.0174 | -.00622 | -.00026 | -.00012 | -.00030 | .00241 | 49.466 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10907** | **.00332** | **-.01057** | **-.00005** | **-.00010** | **249.77** | **.00085** | **.00386** | **.00189** | **5.0892** | **.00136** | **-.00220** | **-.00659** |
| Stddev | .08575 | .00033 | .00445 | .00012 | .00011 | .42 | .00037 | .00051 | .00031 | .0114 | .00066 | .00087 | .00450 |
| %RSD | 78.619 | 9.8698 | 42.095 | 252.62 | 114.38 | .16691 | 43.895 | 13.135 | 16.204 | .22346 | 48.780 | 39.322 | 68.296 |
| #1 | .16971 | .00309 | -.00743 | -.00013 | -.00002 | 249.47 | .00111 | .00422 | .00211 | 5.0972 | .00089 | -.00281 | -.00341 |
| #2 | .04844 | .00355 | -.01372 | .00004 | -.00018 | 250.06 | .00058 | .00350 | .00168 | 5.0811 | .00183 | -.00159 | -.00977 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01410** | **.00031** | **.00044** | **4.9427** | **-.00078** | **.00025** | **10.187** | **.00120** | **.00043** | **.02258** |
| Stddev | .00963 | .00033 | .00005 | .0092 | .00035 | .00058 | .013 | .00038 | .00004 | .00137 |
| %RSD | 68.296 | 106.10 | 12.270 | .18702 | 44.398 | 230.30 | .13033 | 31.481 | 8.8110 | 6.0505 |
| #1 | -.00729 | .00008 | .00040 | 4.9362 | -.00103 | .00066 | 10.196 | .00094 | .00040 | .02355 |
| #2 | -.02090 | .00054 | .00047 | 4.9493 | -.00054 | -.00016 | 10.177 | .00147 | .00046 | .02161 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8816.9** | **110500.** | **9582.5** |
| Stddev | 20.6 | 138. | 8.0 |
| %RSD | .23418 | .12489 | .08325 |
| #1 | 8831.5 | 110600. | 9588.1 |
| #2 | 8802.3 | 110410. | 9576.8 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 16:06:22 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50403** | **.51986** | **.99198** | **.50402** | **.48990** | **.49792** | **-.00104** | **5.0159** | **.50708** | **.51173** | **.50217** | **.51105** | **2.5191** |
| Stddev | .00299 | .00255 | .00303 | .00125 | .00017 | .00032 | .00084 | .0169 | .00022 | .00151 | .00064 | .00164 | .0062 |
| %RSD | .59356 | .49138 | .30539 | .24736 | .03489 | .06357 | 80.944 | .33659 | .04416 | .29548 | .12724 | .32065 | .24396 |
| #1 | .50192 | .52166 | .98984 | .50490 | .49002 | .49770 | -.00164 | 5.0039 | .50723 | .51066 | .50171 | .50989 | 2.5234 |
| #2 | .50615 | .51805 | .99412 | .50313 | .48978 | .49814 | -.00045 | 5.0278 | .50692 | .51280 | .50262 | .51221 | 2.5148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.049** | **.99713** | **19.679** | **.50777** | **.49890** | **5.2196** | **.50501** | **.98749** | **1.0238** | **.00232** | **1.0292** | **1.0054** | **4.9756** |
| Stddev | .125 | .00167 | .048 | .00085 | .00008 | .0094 | .00069 | .00092 | .0011 | .00261 | .0034 | .0018 | .0001 |
| %RSD | .24924 | .16757 | .24436 | .16729 | .01609 | .18079 | .13705 | .09331 | .10650 | 112.86 | .32722 | .18054 | .00221 |
| #1 | 49.961 | .99595 | 19.645 | .50717 | .49885 | 5.2129 | .50453 | .98684 | 1.0230 | .00047 | 1.0316 | 1.0067 | 4.9756 |
| #2 | 50.138 | .99831 | 19.713 | .50837 | .49896 | 5.2263 | .50550 | .98814 | 1.0246 | .00416 | 1.0269 | 1.0042 | 4.9755 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.648** | **1.0080** | **.50312** | **-.00540** | **.50915** | **1.0439** | **.02863** | **.50371** | **.49568** | **.50570** |
| Stddev | .000 | .0039 | .00052 | .00058 | .00027 | .0021 | .01138 | .00083 | .00112 | .00404 |
| %RSD | .00221 | .38288 | .10297 | 10.674 | .05346 | .20370 | 39.759 | .16380 | .22531 | .79844 |
| #1 | 10.648 | 1.0053 | .50275 | -.00499 | .50934 | 1.0454 | .02058 | .50313 | .49489 | .50285 |
| #2 | 10.648 | 1.0107 | .50348 | -.00580 | .50896 | 1.0424 | .03668 | .50430 | .49647 | .50856 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8993.8** | **114130.** | **9679.0** |
| Stddev | 25.6 | 205. | 19.4 |
| %RSD | .28488 | .17927 | .20000 |
| #1 | 9011.9 | 114270. | 9692.7 |
| #2 | 8975.7 | 113980. | 9665.3 |

Sample Name: CCB Acquired: 8/14/2013 16:08:29 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **.00000** | **.00131** | **.00213** | **-.00024** | **.00000** | **-.00171** | **-.00125** | **-.00008** | **.00000** | **-.00010** | **-.00082** |
| Stddev | .00025 | .0002 | .00380 | .00022 | .00001 | .0000 | .00157 | .00005 | .00024 | .0002 | .00004 | .00020 |
| %RSD | 76.511 | 19856. | 290.19 | 10.544 | 5.0286 | 200.36 | 91.886 | 4.1133 | 294.88 | 5212.7 | 35.543 | 24.428 |
| #1 | -.00050 | .00011 | .00399 | .00197 | -.00023 | -.00001 | -.00282 | -.00122 | -.00025 | -.00017 | -.00008 | -.00068 |
| #2 | -.00015 | -.00011 | -.00138 | .00229 | -.00025 | .00000 | -.00060 | -.00129 | .00009 | .00016 | -.00013 | -.00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.05963** | **-.00204** | **.00211** | **.00006** | **.00058** | **.06971** | **-.00004** | **.00157** | **-.00075** | **.00163** | W **.00452** |
| Stddev | .00042 | .02742 | .00078 | .00282 | .00000 | .00015 | .00467 | .00008 | .00082 | .00017 | .00046 | .00179 |
| %RSD | 142.66 | 45.984 | 38.079 | 133.66 | 2.7964 | 25.971 | 6.6924 | 222.60 | 52.235 | 22.112 | 28.243 | 39.599 |
| #1 | .00000 | .07902 | -.00149 | .00410 | .00006 | .00047 | .06641 | -.00010 | .00099 | -.00087 | .00195 | .00579 |
| #2 | .00060 | .04024 | -.00259 | .00012 | .00006 | .00068 | .07301 | .00002 | .00216 | -.00063 | .00130 | .00326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00288** | **-.00281** | **-.00601** | **.00035** | **.00005** | **.00006** | **.00011** | **.00028** | **.00638** | **-.00009** | **.00095** | **-.00172** |
| Stddev | .00020 | .00726 | .01553 | .00051 | .00008 | .00074 | .00032 | .00005 | .00078 | .00005 | .00003 | .00152 |
| %RSD | 6.9523 | 258.52 | 258.52 | 145.04 | 162.55 | 1206.5 | 302.20 | 18.211 | 12.173 | 59.334 | 2.7132 | 88.600 |
| #1 | .00274 | -.00794 | -.01699 | -.00001 | .00010 | -.00046 | .00033 | .00024 | .00583 | -.00012 | .00097 | -.00279 |
| #2 | .00302 | .00232 | .00497 | .00071 | -.00001 | .00058 | -.00012 | .00031 | .00693 | -.00005 | .00093 | -.00064 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9087.0** | **117040.** | **9535.2** |
| Stddev | 8.9 | 500. | 20.7 |
| %RSD | .09801 | .42688 | .21724 |
| #1 | 9093.3 | 116690. | 9549.8 |
| #2 | 9080.7 | 117390. | 9520.5 |

Sample Name: CCVL-2197715 Acquired: 8/14/2013 16:10:46 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01033** | **.10721** | **.01843** | **.09633** | **.01004** | **.00098** | **.11188** | **.20292** | **.00507** | **.01053** | **.01026** | **.01532** | **.10184** |
| Stddev | .00013 | .00009 | .00032 | .00015 | .00016 | .00002 | .00095 | .00160 | .00003 | .00012 | .00000 | .00006 | .00113 |
| %RSD | 1.2202 | .08347 | 1.7590 | .15189 | 1.5600 | 2.3183 | .85122 | .79086 | .58939 | 1.0966 | .03867 | .41382 | 1.1108 |
| #1 | .01042 | .10727 | .01866 | .09643 | .01015 | .00096 | .11256 | .20406 | .00509 | .01061 | .01027 | .01536 | .10264 |
| #2 | .01024 | .10715 | .01820 | .09623 | .00993 | .00099 | .11121 | .20179 | .00505 | .01045 | .01026 | .01527 | .10104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1271** | **.00944** | **.20263** | **.01037** | **.01977** | **1.1242** | **.04151** | **2.8051** | **.01039** | **-.00135** | **.00958** | **.01551** | **.48289** |
| Stddev | .0774 | .00263 | .00076 | .00003 | .00021 | .0278 | .00014 | .0065 | .00017 | .00292 | .00020 | .00341 | .01648 |
| %RSD | 2.4740 | 27.902 | .37455 | .33293 | 1.0845 | 2.4687 | .32804 | .23072 | 1.6200 | 216.61 | 2.0535 | 22.018 | 3.4130 |
| #1 | 3.0723 | .01130 | .20209 | .01035 | .01962 | 1.1046 | .04160 | 2.8005 | .01027 | .00072 | .00944 | .01792 | .47123 |
| #2 | 3.1818 | .00758 | .20316 | .01040 | .01992 | 1.1438 | .04141 | 2.8096 | .01050 | -.00341 | .00972 | .01309 | .49454 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0334** | **.10104** | **.01022** | **.01383** | **.01017** | **.01437** | **.07787** | **.01052** | **.02056** | **.01433** |
| Stddev | .0353 | .00045 | .00001 | .00103 | .00033 | .00026 | .03950 | .00012 | .00050 | .00087 |
| %RSD | 3.4130 | .44889 | .12464 | 7.4128 | 3.2012 | 1.8005 | 50.722 | 1.1812 | 2.4490 | 6.0963 |
| #1 | 1.0084 | .10072 | .01023 | .01455 | .00994 | .01419 | .04994 | .01044 | .02021 | .01495 |
| #2 | 1.0583 | .10136 | .01021 | .01311 | .01040 | .01455 | .10580 | .01061 | .02092 | .01371 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9017.7** | **116360.** | **9594.8** |
| Stddev | 1.1 | 1216. | 76.1 |
| %RSD | .01212 | 1.0449 | .79318 |
| #1 | 9018.5 | 117220. | 9648.6 |
| #2 | 9017.0 | 115500. | 9541.0 |

Sample Name: mb 280-186837/1-a  Acquired: 8/14/2013 16:13:05  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00226** | **.00138** | **.00206** | **.00004** | **-.00006** | **.00045** | **.00893** | **-.00007** | **-.00005** |
| Stddev | .00024 | .00013 | .00069 | .00020 | .00005 | .00000 | .00355 | .00367 | .00008 | .00005 |
| %RSD | 113.15 | 5.7441 | 50.181 | 9.5596 | 116.07 | 6.8743 | 783.05 | 41.119 | 122.14 | 111.28 |
| #1 | .00004 | .00235 | .00089 | .00192 | .00001 | -.00006 | .00296 | .00633 | -.00001 | -.00001 |
| #2 | .00038 | .00217 | .00187 | .00220 | .00007 | -.00007 | -.00206 | .01152 | -.00012 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **-.00057** | **.02845** | **.02403** | **-.00059** | **.00956** | **.00017** | **-.00012** | **.09455** | **-.00014** |
| Stddev | .00004 | .00044 | .00221 | .02996 | .00444 | .00287 | .00003 | .00001 | .00202 | .00005 |
| %RSD | 59.205 | 77.514 | 7.7580 | 124.67 | 753.06 | 30.062 | 17.508 | 9.3057 | 2.1348 | 38.987 |
| #1 | .00009 | -.00089 | .02689 | .00285 | .00255 | .00752 | .00019 | -.00013 | .09313 | -.00018 |
| #2 | .00004 | -.00026 | .03001 | .04522 | -.00373 | .01159 | .00015 | -.00011 | .09598 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00233** | **-.00009** | **.00759** | **-.00058** | **.00298** | **-.00100** | **-.00214** | **.00034** | **.00001** | **-.00070** |
| Stddev | .00082 | .00085 | .00252 | .00186 | .00221 | .00136 | .00291 | .00005 | .00010 | .00115 |
| %RSD | 35.295 | 922.99 | 33.154 | 319.30 | 74.133 | 136.17 | 136.17 | 14.542 | 915.24 | 164.35 |
| #1 | .00175 | -.00070 | .00937 | -.00190 | .00453 | -.00196 | -.00420 | .00031 | -.00006 | .00011 |
| #2 | .00291 | .00051 | .00581 | .00073 | .00142 | -.00004 | -.00008 | .00038 | .00008 | -.00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **-.00035** | **.03219** | **.00093** | **.00175** | **-.00132** |
| Stddev | .00020 | .00027 | .04756 | .00051 | .00040 | .00044 |
| %RSD | 406.68 | 75.177 | 147.73 | 55.035 | 23.050 | 33.447 |
| #1 | -.00009 | -.00054 | -.00144 | .00057 | .00146 | -.00164 |
| #2 | .00019 | -.00017 | .06582 | .00130 | .00203 | -.00101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9112.6** | **117490.** | **9644.4** |
| Stddev | 4.0 | 430. | 2.5 |
| %RSD | .04345 | .36636 | .02575 |
| #1 | 9109.8 | 117790. | 9642.6 |
| #2 | 9115.3 | 117180. | 9646.1 |

Sample Name: lcs 280-186837/2-a Acquired: 8/14/2013 16:15:19 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04880** | **1.9541** | **1.0059** | **.99280** | **1.9758** | **.04949** | **2.0677** | **49.536** | **.10498** | **.49432** |
| Stddev | .00029 | .0001 | .0007 | .00142 | .0027 | .00016 | .0045 | .019 | .00054 | .00020 |
| %RSD | .59312 | .00254 | .06667 | .14349 | .13669 | .31480 | .21687 | .03881 | .51233 | .03971 |
| #1 | .04860 | 1.9542 | 1.0054 | .99381 | 1.9739 | .04938 | 2.0709 | 49.522 | .10536 | .49418 |
| #2 | .04901 | 1.9541 | 1.0063 | .99179 | 1.9777 | .04960 | 2.0645 | 49.550 | .10460 | .49446 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19947** | **.25308** | **1.0219** | **50.255** | **.99503** | **48.562** | **.49693** | **.99119** | **50.518** | **.49042** |
| Stddev | .00009 | .00015 | .0040 | .080 | .00045 | .060 | .00067 | .00018 | .104 | .00015 |
| %RSD | .04404 | .05942 | .39655 | .15953 | .04524 | .12308 | .13471 | .01776 | .20523 | .03056 |
| #1 | .19953 | .25318 | 1.0190 | 50.198 | .99535 | 48.520 | .49645 | .99106 | 50.445 | .49053 |
| #2 | .19941 | .25297 | 1.0247 | 50.312 | .99471 | 48.604 | .49740 | .99131 | 50.591 | .49032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9780** | **.49603** | **-.00685** | **.48831** | **1.9556** | **10.002** | **21.405** | **1.9686** | **1.0056** | **.95066** |
| Stddev | .0030 | .00160 | .00103 | .00313 | .0150 | .039 | .083 | .0098 | .0005 | .00023 |
| %RSD | .02981 | .32341 | 14.993 | .64123 | .76495 | .38806 | .38806 | .49725 | .04902 | .02446 |
| #1 | 9.9759 | .49717 | -.00758 | .49053 | 1.9662 | 10.030 | 21.463 | 1.9755 | 1.0060 | .95083 |
| #2 | 9.9801 | .49490 | -.00613 | .48610 | 1.9450 | 9.9747 | 21.346 | 1.9616 | 1.0053 | .95050 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0087** | **1.9720** | **2.1233** | **.50461** | **.48685** | **.50984** |
| Stddev | .0010 | .0102 | .0018 | .00058 | .00034 | .00208 |
| %RSD | .10411 | .51567 | .08367 | .11431 | .06896 | .40882 |
| #1 | 1.0080 | 1.9791 | 2.1221 | .50420 | .48661 | .51131 |
| #2 | 1.0095 | 1.9648 | 2.1246 | .50502 | .48709 | .50837 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8738.7** | **111010.** | **9546.3** |
| Stddev | 4.7 | 265. | 19.5 |
| %RSD | .05390 | .23858 | .20463 |
| #1 | 8742.0 | 111200. | 9560.1 |
| #2 | 8735.4 | 110830. | 9532.5 |

Sample Name: 280-45251-a-1-b@5 Acquired: 8/14/2013 16:17:26 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.01175** | **.00283** | **.03654** | **.04367** | **-.00001** | **-.00084** | **29.574** | **.00194** | **.00566** |
| Stddev | .00023 | .00014 | .00270 | .00009 | .00037 | .00005 | .00116 | .075 | .00003 | .00028 |
| %RSD | 172.86 | 1.1631 | 95.598 | .23540 | .85039 | 412.96 | 137.56 | .25350 | 1.5877 | 4.8663 |
| #1 | .00030 | .01184 | .00474 | .03660 | .04394 | .00002 | -.00002 | 29.521 | .00192 | .00585 |
| #2 | -.00003 | .01165 | .00092 | .03648 | .04341 | -.00005 | -.00166 | 29.627 | .00196 | .00546 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **.03739** | **2.2765** | **2.6015** | **.00660** | **3.9592** | **.08677** | **.00143** | **15.957** | **.01266** |
| Stddev | .00002 | .00018 | .0019 | .0226 | .00165 | .0038 | .00003 | .00028 | .155 | .00038 |
| %RSD | 2.6354 | .48206 | .08323 | .86791 | 25.000 | .09560 | .03585 | 19.594 | .96874 | 3.0150 |
| #1 | .00066 | .03726 | 2.2779 | 2.5855 | .00543 | 3.9619 | .08679 | .00123 | 16.066 | .01239 |
| #2 | .00068 | .03751 | 2.2752 | 2.6174 | .00776 | 3.9566 | .08674 | .00163 | 15.847 | .01293 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01943** | **.11436** | **2.6580** | **-.00059** | **.00444** | **2.6007** | **5.5654** | **.00018** | **.18011** | **-.00020** |
| Stddev | .00058 | .00116 | .0088 | .00080 | .00048 | .0088 | .0189 | .00040 | .00049 | .00061 |
| %RSD | 3.0063 | 1.0116 | .33206 | 135.39 | 10.816 | .33939 | .33939 | 221.67 | .27426 | 311.81 |
| #1 | .01902 | .11354 | 2.6643 | -.00116 | .00410 | 2.6069 | 5.5788 | .00046 | .17976 | -.00063 |
| #2 | .01984 | .11518 | 2.6518 | -.00003 | .00478 | 2.5944 | 5.5521 | -.00010 | .18046 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00083** | **.04046** | **.00329** | **.02005** | **.00162** |
| Stddev | .00022 | .00233 | .00358 | .00043 | .00007 | .00101 |
| %RSD | 155.13 | 280.07 | 8.8449 | 12.950 | .32805 | 62.775 |
| #1 | .00029 | -.00082 | .03793 | .00360 | .02001 | .00090 |
| #2 | -.00001 | .00248 | .04299 | .00299 | .02010 | .00233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9621.0** | **123340.** | **10272.** |
| Stddev | 5.0 | 207. | 80. |
| %RSD | .05197 | .16746 | .78107 |
| #1 | 9624.5 | 123200. | 10216. |
| #2 | 9617.5 | 123490. | 10329. |

Sample Name: 280-45251-a-1-bSD@25 Acquired: 8/14/2013 16:20:17 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00994** | **.00246** | **.00966** | **.00920** | **.00001** | **.00028** | **6.2417** | **.00020** | **.00152** |
| Stddev | .00017 | .00014 | .00012 | .00013 | .00004 | .00001 | .00067 | .0128 | .00013 | .00013 |
| %RSD | 35.811 | 1.3809 | 4.9781 | 1.3649 | .47350 | 72.966 | 236.61 | .20555 | 65.467 | 8.4677 |
| #1 | .00036 | .00984 | .00237 | .00975 | .00917 | .00001 | -.00019 | 6.2327 | .00011 | .00143 |
| #2 | .00060 | .01003 | .00255 | .00957 | .00923 | .00002 | .00076 | 6.2508 | .00030 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00763** | **.48700** | **.60350** | **.00101** | **.85479** | **.01859** | **.00011** | **3.4029** | **.00284** |
| Stddev | .00006 | .00021 | .00169 | .01487 | .00346 | .00408 | .00002 | .00011 | .0006 | .00001 |
| %RSD | 41.097 | 2.7925 | .34773 | 2.4634 | 342.98 | .47754 | .08927 | 107.53 | .01655 | .19507 |
| #1 | .00020 | .00747 | .48580 | .59299 | -.00144 | .85191 | .01858 | .00019 | 3.4025 | .00284 |
| #2 | .00011 | .00778 | .48820 | .61402 | .00346 | .85768 | .01860 | .00003 | 3.4033 | .00284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00577** | **.02412** | **.55041** | **.00047** | **.00128** | **.53249** | **1.1395** | **-.00012** | **.03826** | **-.00032** |
| Stddev | .00065 | .00013 | .00449 | .00097 | .00226 | .01656 | .0354 | .00028 | .00011 | .00064 |
| %RSD | 11.233 | .53650 | .81538 | 205.93 | 176.54 | 3.1100 | 3.1100 | 229.55 | .29958 | 198.84 |
| #1 | .00623 | .02403 | .55358 | .00115 | -.00032 | .54420 | 1.1646 | .00008 | .03818 | -.00077 |
| #2 | .00532 | .02421 | .54724 | -.00021 | .00288 | .52078 | 1.1145 | -.00033 | .03834 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **-.00055** | **.03038** | **.00139** | **.00612** | **-.00041** |
| Stddev | .00031 | .00083 | .01953 | .00028 | .00016 | .00155 |
| %RSD | 67.653 | 150.81 | 64.294 | 20.179 | 2.6275 | 376.03 |
| #1 | .00068 | -.00114 | .04419 | .00159 | .00601 | -.00150 |
| #2 | .00024 | .00004 | .01657 | .00119 | .00624 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9252.7** | **118990.** | **9788.0** |
| Stddev | 33.9 | 124. | 40.4 |
| %RSD | .36585 | .10458 | .41282 |
| #1 | 9276.6 | 119080. | 9816.5 |
| #2 | 9228.7 | 118900. | 9759.4 |

Sample Name: 280-45251-a-1-c ms@5 Acquired: 8/14/2013 16:22:35 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00913** | **.40020** | **.19016** | **.22150** | **.41069** | **.00938** | F **.39263** | **38.740** | **.02175** | **.10033** |
| Stddev | .00007 | .00102 | .00006 | .00003 | .00137 | .00014 | .00071 | .136 | .00016 | .00030 |
| %RSD | .72334 | .25491 | .03258 | .01321 | .33317 | 1.4551 | .18079 | .35099 | .74045 | .30178 |
| #1 | .00908 | .39947 | .19011 | .22148 | .40972 | .00928 | .39313 | 38.643 | .02186 | .10055 |
| #2 | .00918 | .40092 | .19020 | .22152 | .41165 | .00948 | .39213 | 38.836 | .02163 | .10012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03825** | **.08510** | **2.4540** | **12.028** | **.19784** | **12.946** | **.17911** | **.18646** | **25.474** | **.10647** |
| Stddev | .00004 | .00046 | .0081 | .088 | .00122 | .028 | .00033 | .00095 | .290 | .00003 |
| %RSD | .11276 | .54416 | .32836 | .73093 | .61585 | .21642 | .18605 | .50922 | 1.1404 | .03104 |
| #1 | .03828 | .08478 | 2.4483 | 11.966 | .19698 | 12.926 | .17887 | .18713 | 25.268 | .10650 |
| #2 | .03822 | .08543 | 2.4597 | 12.090 | .19870 | 12.965 | .17934 | .18579 | 25.679 | .10645 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8945** | **.20579** | **2.6493** | **.09018** | **.36870** | **4.4828** | **9.5932** | **.36989** | **.36722** | **.17650** |
| Stddev | .0032 | .00046 | .0066 | .00148 | .00069 | .0065 | .0140 | .00028 | .00172 | .00227 |
| %RSD | .16905 | .22263 | .25016 | 1.6396 | .18651 | .14576 | .14576 | .07457 | .46973 | 1.2855 |
| #1 | 1.8968 | .20611 | 2.6540 | .08914 | .36918 | 4.4782 | 9.5833 | .37008 | .36600 | .17490 |
| #2 | 1.8922 | .20546 | 2.6447 | .09123 | .36821 | 4.4874 | 9.6031 | .36969 | .36844 | .17811 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18852** | **.38369** | **.42967** | **.09794** | **.11201** | **.09516** |
| Stddev | .00016 | .00205 | .00915 | .00003 | .00074 | .00136 |
| %RSD | .08693 | .53512 | 2.1288 | .03189 | .65850 | 1.4267 |
| #1 | .18840 | .38514 | .42320 | .09792 | .11149 | .09612 |
| #2 | .18864 | .38224 | .43614 | .09796 | .11253 | .09420 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9501.8** | **120770.** | **10213.** |
| Stddev | 3.6 | 430. | 12. |
| %RSD | .03769 | .35564 | .11403 |
| #1 | 9504.3 | 121070. | 10221. |
| #2 | 9499.3 | 120470. | 10205. |

Sample Name: 45251-a-1-d msd@5 Acquired: 8/14/2013 16:24:45 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00912** | **.39653** | **.19257** | **.22279** | **.41016** | **.00930** | F **.39562** | **38.626** | **.02147** | **.10037** |
| Stddev | .00009 | .00153 | .00122 | .00066 | .00011 | .00001 | .00336 | .063 | .00009 | .00008 |
| %RSD | 1.0264 | .38516 | .63331 | .29753 | .02626 | .08628 | .85000 | .16302 | .39890 | .08160 |
| #1 | .00918 | .39761 | .19344 | .22326 | .41024 | .00930 | .39799 | 38.581 | .02153 | .10043 |
| #2 | .00905 | .39545 | .19171 | .22232 | .41009 | .00929 | .39324 | 38.670 | .02141 | .10031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03836** | **.08418** | **2.4599** | **12.050** | **.19368** | **12.888** | **.17837** | **.18806** | **25.521** | **.10630** |
| Stddev | .00001 | .00008 | .0047 | .019 | .00017 | .001 | .00017 | .00061 | .006 | .00028 |
| %RSD | .02826 | .09962 | .19315 | .15571 | .08862 | .00707 | .09554 | .32331 | .02401 | .26042 |
| #1 | .03836 | .08412 | 2.4633 | 12.036 | .19380 | 12.887 | .17824 | .18763 | 25.517 | .10610 |
| #2 | .03835 | .08424 | 2.4565 | 12.063 | .19356 | 12.888 | .17849 | .18849 | 25.525 | .10649 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8954** | **.20693** | **2.6392** | **.09169** | **.36644** | **4.4974** | **9.6244** | **.37222** | **.36658** | **.17835** |
| Stddev | .0039 | .00052 | .0040 | .00171 | .00215 | .0004 | .0008 | .00089 | .00141 | .00118 |
| %RSD | .20419 | .25331 | .15077 | 1.8622 | .58589 | .00844 | .00844 | .24018 | .38567 | .66294 |
| #1 | 1.8926 | .20656 | 2.6420 | .09289 | .36795 | 4.4971 | 9.6238 | .37286 | .36558 | .17919 |
| #2 | 1.8981 | .20730 | 2.6364 | .09048 | .36492 | 4.4976 | 9.6250 | .37159 | .36758 | .17751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18856** | **.38240** | **.42351** | **.09734** | **.10979** | **.09687** |
| Stddev | .00053 | .00267 | .01853 | .00040 | .00034 | .00033 |
| %RSD | .28328 | .69941 | 4.3764 | .41399 | .31068 | .34228 |
| #1 | .18818 | .38429 | .41040 | .09763 | .10955 | .09711 |
| #2 | .18894 | .38050 | .43661 | .09706 | .11003 | .09664 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9494.5** | **121230.** | **10211.** |
| Stddev | 2.7 | 126. | 44. |
| %RSD | .02846 | .10422 | .43052 |
| #1 | 9496.4 | 121320. | 10180. |
| #2 | 9492.6 | 121150. | 10242. |

Sample Name: 280-45251-a-1-bPDS@5 Acquired: 8/14/2013 16:27:47 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04049** | **1.0435** | **.20622** | **.12684** | **.14125** | **.05032** | **-.00060** | **48.840** | **.05406** | **.05692** |
| Stddev | .00004 | .0022 | .00041 | .00004 | .00096 | .00046 | .00315 | .452 | .00021 | .00007 |
| %RSD | .08885 | .21391 | .19906 | .02894 | .68241 | .91655 | 521.72 | .92599 | .39285 | .11670 |
| #1 | .04046 | 1.0419 | .20651 | .12682 | .14193 | .05064 | .00162 | 49.160 | .05391 | .05687 |
| #2 | .04051 | 1.0451 | .20593 | .12687 | .14056 | .04999 | -.00283 | 48.520 | .05421 | .05697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05199** | **.08801** | **3.2349** | **22.809** | **.10815** | **23.481** | **.13538** | **.04652** | **35.920** | **.06217** |
| Stddev | .00021 | .00027 | .0484 | .141 | .00570 | .009 | .00010 | .00001 | .237 | .00027 |
| %RSD | .39884 | .30153 | 1.4955 | .61960 | 5.2672 | .03793 | .07428 | .03211 | .65942 | .43590 |
| #1 | .05184 | .08819 | 3.2691 | 22.909 | .10412 | 23.487 | .13545 | .04651 | 35.752 | .06197 |
| #2 | .05213 | .08782 | 3.2007 | 22.709 | .11218 | 23.475 | .13531 | .04653 | 36.087 | .06236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.0656** | **.21210** | **2.6408** | **.09387** | **.19975** | **7.1733** | **15.351** | **.09216** | **.22665** | **.19651** |
| Stddev | .0032 | .00214 | .0010 | .00082 | .00284 | .0986 | .211 | .00027 | .00144 | .00031 |
| %RSD | .15612 | 1.0082 | .03608 | .87729 | 1.4203 | 1.3741 | 1.3741 | .28782 | .63365 | .15689 |
| #1 | 2.0678 | .21058 | 2.6401 | .09446 | .19774 | 7.2430 | 15.500 | .09197 | .22766 | .19673 |
| #2 | 2.0633 | .21361 | 2.6415 | .09329 | .20175 | 7.1036 | 15.202 | .09235 | .22563 | .19629 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04735** | **.20348** | **.54560** | **.05498** | **.21906** | **.04702** |
| Stddev | .00019 | .00060 | .02442 | .00024 | .00029 | .00060 |
| %RSD | .39230 | .29398 | 4.4762 | .43636 | .13360 | 1.2842 |
| #1 | .04722 | .20390 | .56286 | .05481 | .21886 | .04660 |
| #2 | .04748 | .20305 | .52833 | .05515 | .21927 | .04745 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9452.5** | **119960.** | **10212.** |
| Stddev | 17.7 | 313. | 59. |
| %RSD | .18707 | .26117 | .57411 |
| #1 | 9440.0 | 120180. | 10171. |
| #2 | 9465.0 | 119740. | 10254. |

Sample Name: 280-45251-a-2-b  Acquired: 8/14/2013 16:29:56  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **1.0478** | **.08039** | **.23252** | **.33275** | **.00004** | **-.00241** | **158.89** | **.00228** | **.00534** |
| Stddev | .00018 | .0019 | .00194 | .00064 | .00154 | .00007 | .00161 | .43 | .00017 | .00010 |
| %RSD | 87.889 | .17859 | 2.4100 | .27605 | .46287 | 187.81 | 66.744 | .27091 | 7.5924 | 1.9396 |
| #1 | .00033 | 1.0491 | .08176 | .23207 | .33166 | .00008 | -.00355 | 158.59 | .00216 | .00527 |
| #2 | .00008 | 1.0464 | .07902 | .23297 | .33384 | -.00001 | -.00127 | 159.19 | .00240 | .00541 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00141** | **.03473** | **2.0937** | **16.055** | **.04647** | **25.118** | **.01954** | **.00418** | **111.91** | **.01131** |
| Stddev | .00020 | .00032 | .0114 | .032 | .00264 | .064 | .00000 | .00008 | .19 | .00000 |
| %RSD | 14.406 | .92530 | .54345 | .19849 | 5.6903 | .25453 | .01928 | 1.8548 | .17230 | .00626 |
| #1 | .00126 | .03496 | 2.0857 | 16.032 | .04460 | 25.073 | .01954 | .00424 | 111.77 | .01131 |
| #2 | .00155 | .03450 | 2.1017 | 16.077 | .04834 | 25.163 | .01954 | .00413 | 112.04 | .01131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06110** | **.09909** | **13.433** | **.00160** | **.00472** | **17.274** | **36.967** | **.00043** | **1.1283** | **.00006** |
| Stddev | .00054 | .00056 | .007 | .00063 | .00061 | .136 | .292 | .00043 | .0057 | .00159 |
| %RSD | .88794 | .56431 | .05210 | 39.605 | 12.921 | .78986 | .78986 | 101.55 | .50971 | 2837.8 |
| #1 | .06071 | .09870 | 13.428 | .00115 | .00429 | 17.178 | 36.761 | .00012 | 1.1243 | -.00107 |
| #2 | .06148 | .09949 | 13.438 | .00205 | .00515 | 17.371 | 37.174 | .00073 | 1.1324 | .00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02933** | **.00022** | **.00922** | **.01970** | **.03434** | **.00088** |
| Stddev | .00069 | .00058 | .02361 | .00036 | .00018 | .00057 |
| %RSD | 2.3603 | 262.15 | 256.16 | 1.8065 | .51137 | 64.965 |
| #1 | .02884 | -.00019 | .02591 | .01945 | .03422 | .00047 |
| #2 | .02982 | .00063 | -.00748 | .01995 | .03446 | .00128 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8936.8** | **112280.** | **9823.7** |
| Stddev | 12.6 | 374. | 67.4 |
| %RSD | .14096 | .33306 | .68659 |
| #1 | 8927.9 | 112540. | 9871.4 |
| #2 | 8945.7 | 112020. | 9776.1 |

Sample Name: 280-45251-a-2-b@5 Acquired: 8/14/2013 16:32:11 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.23195** | **.01773** | **.05006** | **.06898** | **-.00001** | **-.00122** | **32.905** | **.00026** | **.00121** |
| Stddev | .00051 | .00017 | .00141 | .00008 | .00000 | .00002 | .00098 | .065 | .00002 | .00002 |
| %RSD | 812.59 | .07430 | 7.9409 | .16084 | .00704 | 168.15 | 80.460 | .19777 | 6.7570 | 1.7084 |
| #1 | -.00030 | .23208 | .01674 | .05001 | .06898 | .00000 | -.00191 | 32.951 | .00025 | .00123 |
| #2 | .00043 | .23183 | .01873 | .05012 | .06898 | -.00003 | -.00053 | 32.859 | .00027 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00684** | **.43157** | **3.2594** | **.01118** | **5.2542** | **.00410** | **.00066** | **23.296** | **.00227** |
| Stddev | .00010 | .00014 | .00044 | .0411 | .00167 | .0252 | .00007 | .00016 | .223 | .00007 |
| %RSD | 36.596 | 1.9968 | .10229 | 1.2623 | 14.945 | .48017 | 1.6302 | 24.590 | .95643 | 3.0645 |
| #1 | .00033 | .00674 | .43188 | 3.2885 | .01000 | 5.2364 | .00406 | .00054 | 23.138 | .00232 |
| #2 | .00020 | .00693 | .43126 | 3.2303 | .01236 | 5.2721 | .00415 | .00077 | 23.454 | .00222 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01241** | **.02141** | **2.7118** | **.00007** | **.00185** | **3.5045** | **7.4996** | **.00048** | **.23134** | **.00002** |
| Stddev | .00177 | .00113 | .0000 | .00283 | .00056 | .0321 | .0686 | .00032 | .00099 | .00159 |
| %RSD | 14.245 | 5.2801 | .00164 | 3859.2 | 30.473 | .91452 | .91452 | 66.453 | .42675 | 9309.3 |
| #1 | .01116 | .02220 | 2.7119 | -.00193 | .00224 | 3.5271 | 7.5481 | .00025 | .23204 | -.00111 |
| #2 | .01366 | .02061 | 2.7118 | .00208 | .00145 | 3.4818 | 7.4511 | .00070 | .23065 | .00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00609** | **-.00039** | **.00513** | **.00432** | **.00877** | **-.00055** |
| Stddev | .00014 | .00032 | .01492 | .00002 | .00025 | .00104 |
| %RSD | 2.3401 | 82.955 | 290.83 | .38700 | 2.9065 | 187.80 |
| #1 | .00619 | -.00016 | .01568 | .00433 | .00859 | -.00129 |
| #2 | .00599 | -.00062 | -.00542 | .00430 | .00895 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9015.7** | **114420.** | **9556.7** |
| Stddev | 4.9 | 214. | .2 |
| %RSD | .05479 | .18716 | .00260 |
| #1 | 9019.2 | 114570. | 9556.5 |
| #2 | 9012.2 | 114270. | 9556.9 |

Sample Name: 280-45251-a-3-b@5 Acquired: 8/14/2013 16:37:09 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186837 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **.14667** | **.00108** | **.01809** | **.06340** | **.00000** | **-.00007** | **22.704** | **.00224** | **.01271** |
| Stddev | .00023 | .00058 | .00093 | .00036 | .00035 | .0000 | .00043 | .122 | .00014 | .00014 |
| %RSD | 75.643 | .39305 | 85.943 | 2.0145 | .55262 | 320.75 | 597.12 | .53676 | 6.2991 | 1.1397 |
| #1 | -.00014 | .14626 | .00042 | .01784 | .06315 | .00000 | -.00038 | 22.618 | .00214 | .01281 |
| #2 | -.00046 | .14708 | .00173 | .01835 | .06365 | -.00001 | .00023 | 22.790 | .00234 | .01260 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.03376** | **1.4272** | **1.1478** | **.00063** | **2.4585** | **.03384** | **.00163** | **6.0996** | **.02042** |
| Stddev | .00004 | .00040 | .0111 | .0321 | .00146 | .0013 | .00010 | .00008 | .0398 | .00001 |
| %RSD | 36.191 | 1.1912 | .77540 | 2.7992 | 229.37 | .05222 | .30168 | 4.8754 | .65263 | .05982 |
| #1 | .00013 | .03405 | 1.4193 | 1.1705 | -.00039 | 2.4576 | .03391 | .00157 | 6.0714 | .02043 |
| #2 | .00007 | .03348 | 1.4350 | 1.1251 | .00166 | 2.4594 | .03377 | .00169 | 6.1277 | .02041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01786** | **.12812** | **4.1493** | **.00011** | **.00042** | **2.4382** | **5.2178** | **.00052** | **.11974** | **.00263** |
| Stddev | .00117 | .00052 | .0002 | .00030 | .00357 | .0323 | .0692 | .00060 | .00083 | .00338 |
| %RSD | 6.5279 | .40296 | .00431 | 265.62 | 850.65 | 1.3262 | 1.3262 | 115.01 | .69089 | 128.57 |
| #1 | .01868 | .12775 | 4.1492 | .00032 | -.00210 | 2.4154 | 5.1689 | .00095 | .11916 | .00502 |
| #2 | .01704 | .12848 | 4.1495 | -.00010 | .00294 | 2.4611 | 5.2667 | .00010 | .12033 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00306** | **-.00002** | **-.00028** | **.00389** | **.05763** | **.00018** |
| Stddev | .00033 | .00021 | .02341 | .00030 | .00017 | .00320 |
| %RSD | 10.736 | 967.83 | 8264.3 | 7.6181 | .28659 | 1757.7 |
| #1 | .00283 | .00013 | -.01683 | .00410 | .05774 | -.00208 |
| #2 | .00329 | -.00017 | .01627 | .00368 | .05751 | .00245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9488.1** | **121070.** | **10016.** |
| Stddev | 14.1 | 833. | 95. |
| %RSD | .14875 | .68789 | .94663 |
| #1 | 9498.1 | 121660. | 10083. |
| #2 | 9478.1 | 120480. | 9949.1 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 16:39:26 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **50.421** | **.00271** | **.00319** | **.00072** | **-.00010** | **1.0133** | **-.01117** | **.00003** | **.00040** | **-.00020** | **.00408** | **49.871** |
| Stddev | .00016 | .180 | .00101 | .00006 | .00015 | .00001 | .0060 | .00033 | .00012 | .00005 | .00007 | .00033 | .483 |
| %RSD | 32.123 | .35690 | 37.337 | 2.0303 | 20.230 | 14.091 | .59721 | 2.9315 | 364.27 | 12.945 | 36.268 | 8.0159 | .96808 |
| #1 | .00039 | 50.294 | .00200 | .00314 | .00062 | -.00009 | 1.0175 | -.01140 | -.00005 | .00037 | -.00025 | .00385 | 49.530 |
| #2 | .00061 | 50.549 | .00343 | .00323 | .00083 | -.00011 | 1.0090 | -.01094 | .00011 | .00044 | -.00015 | .00432 | 50.213 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08119** | **.00054** | **-.01390** | **.00000** | **-.00006** | **250.35** | **.00056** | **.00251** | **.00047** | **5.0502** | **.00221** | **.00010** | **.00284** |
| Stddev | .00819 | .00168 | .00235 | .00003 | .00001 | .42 | .00010 | .00037 | .00125 | .0149 | .00051 | .00094 | .00678 |
| %RSD | 10.089 | 308.86 | 16.918 | 1049.6 | 23.733 | .16724 | 17.070 | 14.739 | 266.26 | .29500 | 22.974 | 917.51 | 238.92 |
| #1 | .08698 | .00173 | -.01556 | .00002 | -.00007 | 250.05 | .00063 | .00225 | .00136 | 5.0608 | .00257 | -.00056 | .00763 |
| #2 | .07540 | -.00064 | -.01223 | -.00002 | -.00005 | 250.64 | .00050 | .00278 | -.00042 | 5.0397 | .00185 | .00076 | -.00196 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00607** | **-.00008** | **.00041** | **4.9060** | **-.00088** | **.00024** | **10.140** | **.00125** | **-.00014** | **.02976** |
| Stddev | .01451 | .00012 | .00001 | .0168 | .00027 | .00011 | .085 | .00055 | .00012 | .00240 |
| %RSD | 238.92 | 153.31 | 1.7373 | .34222 | 31.068 | 45.862 | .83405 | 43.456 | 90.134 | 8.0725 |
| #1 | .01633 | .00001 | .00040 | 4.8942 | -.00069 | .00016 | 10.080 | .00087 | -.00005 | .03146 |
| #2 | -.00419 | -.00016 | .00041 | 4.9179 | -.00108 | .00032 | 10.200 | .00164 | -.00022 | .02806 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8725.1** | **108570.** | **9382.2** |
| Stddev | 4.0 | 305. | 60.3 |
| %RSD | .04601 | .28103 | .64221 |
| #1 | 8728.0 | 108790. | 9424.8 |
| #2 | 8722.3 | 108350. | 9339.6 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 16:41:48 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50712** | **.52296** | **.98954** | **.50572** | **.48686** | **.49749** | **-.00041** | **5.0622** | **.50868** | **.50982** | **.49829** | **.51480** | **2.5301** |
| Stddev | .00069 | .00170 | .00270 | .00036 | .00129 | .00078 | .00099 | .0031 | .00097 | .00090 | .00035 | .00070 | .0139 |
| %RSD | .13565 | .32417 | .27264 | .07213 | .26417 | .15637 | 239.97 | .06132 | .19068 | .17632 | .07039 | .13591 | .54849 |
| #1 | .50663 | .52176 | .98764 | .50546 | .48595 | .49694 | .00029 | 5.0600 | .50937 | .51046 | .49805 | .51430 | 2.5203 |
| #2 | .50760 | .52416 | .99145 | .50597 | .48777 | .49804 | -.00112 | 5.0644 | .50800 | .50919 | .49854 | .51529 | 2.5399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.825** | **.99823** | **19.601** | **.50461** | **.49652** | **5.2192** | **.50287** | **.99211** | **1.0217** | **.00808** | **1.0282** | **1.0032** | **4.9547** |
| Stddev | .044 | .00414 | .015 | .00062 | .00149 | .0194 | .00003 | .00803 | .0025 | .00024 | .0038 | .0040 | .0262 |
| %RSD | .08832 | .41426 | .07858 | .12330 | .30083 | .37186 | .00625 | .80890 | .24077 | 2.9303 | .36687 | .39822 | .52847 |
| #1 | 49.794 | .99531 | 19.612 | .50505 | .49547 | 5.2055 | .50289 | .98643 | 1.0200 | .00791 | 1.0256 | 1.0004 | 4.9732 |
| #2 | 49.856 | 1.0012 | 19.590 | .50417 | .49758 | 5.2330 | .50285 | .99778 | 1.0235 | .00825 | 1.0309 | 1.0061 | 4.9362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.603** | **.99540** | **.50047** | **-.00483** | **.50741** | **1.0429** | **.02189** | **.50294** | **.49634** | **.50155** |
| Stddev | .056 | .00419 | .00107 | .00052 | .00064 | .0001 | .00120 | .00135 | .00006 | .00099 |
| %RSD | .52847 | .42118 | .21379 | 10.808 | .12587 | .01483 | 5.4777 | .26834 | .01214 | .19830 |
| #1 | 10.643 | .99243 | .49971 | -.00520 | .50786 | 1.0428 | .02104 | .50389 | .49639 | .50084 |
| #2 | 10.563 | .99836 | .50122 | -.00446 | .50696 | 1.0430 | .02273 | .50198 | .49630 | .50225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8992.1** | **113670.** | **9604.7** |
| Stddev | 19.4 | 65. | 7.2 |
| %RSD | .21593 | .05700 | .07548 |
| #1 | 9005.8 | 113620. | 9609.9 |
| #2 | 8978.4 | 113710. | 9599.6 |

Sample Name: CCB Acquired: 8/14/2013 16:43:56 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **-.00023** | **.00305** | **.00183** | **.00000** | **-.00003** | **.00001** | **.00091** | **-.00005** | **.00015** | **-.00009** | **-.00032** | **-.00052** |
| Stddev | .00019 | .00022 | .00063 | .00034 | .0000 | .00003 | .00067 | .00255 | .00022 | .00015 | .00011 | .00020 | .00189 |
| %RSD | 46.556 | 94.485 | 20.646 | 18.414 | 9772.9 | 104.01 | 6350.2 | 281.47 | 432.20 | 97.944 | 122.91 | 63.921 | 362.08 |
| #1 | .00028 | -.00039 | .00261 | .00159 | -.00003 | -.00001 | -.00047 | -.00090 | .00010 | .00026 | -.00001 | -.00046 | -.00186 |
| #2 | .00055 | -.00008 | .00350 | .00207 | .00003 | -.00005 | .00049 | .00271 | -.00020 | .00005 | -.00017 | -.00018 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08107** | **.00015** | **.00151** | **.00002** | **.00021** | **.05307** | **.00045** | **.00057** | **.00028** | **.00060** | **.00207** | **.00016** | **.00938** |
| Stddev | .00572 | .00178 | .00149 | .00005 | .00026 | .00447 | .00017 | .00057 | .00099 | .00042 | .00074 | .00029 | .00217 |
| %RSD | 7.0501 | 1199.8 | 98.574 | 317.08 | 126.23 | 8.4308 | 37.725 | 99.727 | 351.58 | 71.056 | 35.593 | 183.87 | 23.188 |
| #1 | .07702 | -.00111 | .00046 | -.00002 | .00002 | .05623 | .00033 | .00017 | -.00042 | .00030 | .00259 | .00037 | .00784 |
| #2 | .08511 | .00141 | .00256 | .00006 | .00039 | .04991 | .00057 | .00097 | .00098 | .00090 | .00155 | -.00005 | .01091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02006** | **.00036** | **.00003** | **.00009** | **.00016** | **-.00038** | **.00335** | **.00031** | **.00100** | **-.00102** |
| Stddev | .00465 | .00073 | .00010 | .00060 | .00029 | .00022 | .01404 | .00027 | .00010 | .00237 |
| %RSD | 23.188 | 203.25 | 307.40 | 645.96 | 176.99 | 56.856 | 419.61 | 86.890 | 10.171 | 233.48 |
| #1 | .01677 | -.00016 | -.00004 | -.00033 | -.00004 | -.00023 | .01327 | .00050 | .00093 | .00066 |
| #2 | .02335 | .00088 | .00010 | .00052 | .00036 | -.00054 | -.00658 | .00012 | .00107 | -.00269 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9058.3** | **116770.** | **9578.3** |
| Stddev | 19.6 | 282. | 72.1 |
| %RSD | .21606 | .24160 | .75318 |
| #1 | 9072.1 | 116970. | 9527.3 |
| #2 | 9044.5 | 116570. | 9629.3 |

Sample Name: CCVL-2197715 Acquired: 8/14/2013 16:46:11 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01005** | **.10704** | **.01489** | **.09577** | **.00973** | **.00095** | **.10978** | **.20772** | **.00513** | **.01073** | **.01026** | **.01529** | **.10391** |
| Stddev | .00007 | .00026 | .00007 | .00032 | .00011 | .00004 | .00225 | .00229 | .00000 | .00012 | .00013 | .00002 | .00209 |
| %RSD | .69903 | .24276 | .50320 | .33140 | 1.1692 | 3.9453 | 2.0494 | 1.1012 | .01274 | 1.1056 | 1.3054 | .15584 | 2.0134 |
| #1 | .01010 | .10686 | .01484 | .09599 | .00981 | .00092 | .11137 | .20934 | .00513 | .01081 | .01035 | .01527 | .10243 |
| #2 | .01000 | .10723 | .01495 | .09554 | .00965 | .00098 | .10819 | .20610 | .00513 | .01065 | .01016 | .01531 | .10539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1597** | **.01057** | **.20122** | **.01042** | **.01951** | **1.1346** | **.04158** | **2.8079** | **.00977** | **-.00312** | **.01081** | **.01598** | **.48473** |
| Stddev | .0087 | .00017 | .00150 | .00010 | .00008 | .0051 | .00012 | .0110 | .00008 | .00158 | .00103 | .00486 | .00790 |
| %RSD | .27503 | 1.6209 | .74743 | .95611 | .42973 | .44609 | .28714 | .39156 | .85968 | 50.688 | 9.5082 | 30.431 | 1.6298 |
| #1 | 3.1535 | .01069 | .20016 | .01049 | .01945 | 1.1311 | .04167 | 2.8156 | .00983 | -.00200 | .01154 | .01254 | .49032 |
| #2 | 3.1658 | .01045 | .20229 | .01035 | .01957 | 1.1382 | .04150 | 2.8001 | .00972 | -.00423 | .01008 | .01942 | .47915 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0373** | **.10037** | **.01032** | **.01286** | **.00996** | **.01478** | F **.10373** | **.01071** | **.02588** | **.01450** |
| Stddev | .0169 | .00102 | .00005 | .00077 | .00008 | .00153 | .04155 | .00063 | .00084 | .00074 |
| %RSD | 1.6298 | 1.0117 | .48090 | 5.9724 | .79547 | 10.350 | 40.059 | 5.8839 | 3.2515 | 5.1290 |
| #1 | 1.0493 | .10109 | .01028 | .01232 | .01002 | .01370 | .13311 | .01027 | .02648 | .01503 |
| #2 | 1.0254 | .09965 | .01035 | .01340 | .00990 | .01586 | .07435 | .01116 | .02529 | .01398 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9004.1** | **115600.** | **9484.0** |
| Stddev | 7.3 | 38. | 5.1 |
| %RSD | .08140 | .03267 | .05377 |
| #1 | 9009.3 | 115630. | 9480.4 |
| #2 | 8998.9 | 115570. | 9487.6 |

Sample Name: mb 280-186615/1-b  Acquired: 8/14/2013 16:48:30  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00145** | **.00318** | **.00204** | **.00005** | **-.00005** | **.00143** | **.00341** | **-.00010** | **.00022** |
| Stddev | .00052 | .00010 | .00010 | .00006 | .00027 | .00004 | .00106 | .00085 | .00012 | .00002 |
| %RSD | 562.54 | 6.7524 | 3.2829 | 2.8316 | 536.74 | 77.620 | 74.390 | 24.852 | 121.92 | 7.8950 |
| #1 | -.00027 | .00138 | .00325 | .00200 | .00024 | -.00008 | .00068 | .00401 | -.00001 | .00021 |
| #2 | .00046 | .00152 | .00310 | .00209 | -.00014 | -.00002 | .00218 | .00281 | -.00018 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **-.00011** | **-.00027** | **.00981** | **.06748** | **.00199** | **.00170** | **.00009** | **-.00037** | W **.05554** | **.00002** |
| Stddev | .00006 | .00050 | .00223 | .03390 | .00250 | .00061 | .00005 | .00024 | .01837 | .00005 |
| %RSD | 56.064 | 189.13 | 22.772 | 50.246 | 125.94 | 35.936 | 53.794 | 63.858 | 33.083 | 276.40 |
| #1 | -.00007 | -.00062 | .00823 | .09145 | .00022 | .00214 | .00012 | -.00054 | .06853 | .00006 |
| #2 | -.00015 | .00009 | .01139 | .04350 | .00376 | .00127 | .00005 | -.00020 | .04255 | -.00002 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .01000 | | | | | | | | .05054 | |
| Low Limit | -.00010 | | | | | | | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00315** | **-.00035** | **.00484** | **-.00177** | **.00347** | **.00726** | **.01553** | **.00068** | **.00004** | **-.00069** |
| Stddev | .00068 | .00021 | .00247 | .00092 | .00263 | .00739 | .01582 | .00015 | .00015 | .00003 |
| %RSD | 21.749 | 61.937 | 51.114 | 52.180 | 75.804 | 101.87 | 101.87 | 22.031 | 416.67 | 5.0377 |
| #1 | .00363 | -.00050 | .00309 | -.00112 | .00533 | .00203 | .00434 | .00058 | .00014 | -.00071 |
| #2 | .00266 | -.00020 | .00659 | -.00243 | .00161 | .01248 | .02671 | .00079 | -.00007 | -.00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **-.00017** | **.01638** | **.00040** | **.00190** | **-.00215** |
| Stddev | .00001 | .00058 | .01226 | .00046 | .00040 | .00027 |
| %RSD | 44.454 | 341.09 | 74.856 | 116.14 | 20.993 | 12.532 |
| #1 | .00002 | -.00058 | .02505 | .00072 | .00218 | -.00234 |
| #2 | .00004 | .00024 | .00771 | .00007 | .00161 | -.00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9129.5** | **118180.** | **9595.8** |
| Stddev | 1.6 | 387. | 103.6 |
| %RSD | .01734 | .32711 | 1.0791 |
| #1 | 9130.6 | 118450. | 9522.6 |
| #2 | 9128.4 | 117900. | 9669.1 |

Sample Name: lcs 280-186615/2-b Acquired: 8/14/2013 16:50:45 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04969** | **1.9825** | **1.0166** | **1.0016** | **1.9598** | **.04996** | **2.0820** | **49.628** | **.10639** | **.49947** |
| Stddev | .00001 | .0043 | .0054 | .0017 | .0085 | .00003 | .0059 | .081 | .00032 | .00072 |
| %RSD | .01721 | .21796 | .52694 | .16803 | .43228 | .05251 | .28312 | .16266 | .29753 | .14336 |
| #1 | .04968 | 1.9856 | 1.0129 | 1.0004 | 1.9658 | .04994 | 2.0778 | 49.685 | .10617 | .49998 |
| #2 | .04970 | 1.9795 | 1.0204 | 1.0027 | 1.9538 | .04998 | 2.0862 | 49.571 | .10662 | .49897 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19983** | **.25716** | **1.0035** | **50.524** | **.99686** | **49.372** | **.50436** | **.98748** | **49.845** | **.49465** |
| Stddev | .00022 | .00044 | .0013 | .067 | .00460 | .029 | .00075 | .00104 | .007 | .00027 |
| %RSD | .10817 | .17300 | .12929 | .13272 | .46145 | .05948 | .14900 | .10487 | .01500 | .05525 |
| #1 | .19968 | .25748 | 1.0044 | 50.571 | .99361 | 49.393 | .50383 | .98821 | 49.851 | .49484 |
| #2 | .19998 | .25685 | 1.0026 | 50.476 | 1.0001 | 49.351 | .50490 | .98674 | 49.840 | .49445 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.113** | **.50162** | **-.00600** | **.49378** | **1.9857** | **9.9478** | **21.288** | **1.9639** | **1.0105** | **.97445** |
| Stddev | .014 | .00042 | .00188 | .00616 | .0110 | .0244 | .052 | .0109 | .0002 | .00162 |
| %RSD | .14024 | .08418 | 31.343 | 1.2466 | .55237 | .24552 | .24552 | .55609 | .02360 | .16586 |
| #1 | 10.103 | .50132 | -.00467 | .48942 | 1.9779 | 9.9651 | 21.325 | 1.9562 | 1.0106 | .97559 |
| #2 | 10.123 | .50192 | -.00733 | .49813 | 1.9935 | 9.9305 | 21.251 | 1.9716 | 1.0103 | .97330 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0221** | **1.9962** | **2.1262** | **.51233** | **.49679** | **.50894** |
| Stddev | .0005 | .0103 | .0086 | .00034 | .00296 | .00213 |
| %RSD | .05133 | .51423 | .40682 | .06556 | .59506 | .41780 |
| #1 | 1.0217 | 1.9889 | 2.1201 | .51210 | .49470 | .50744 |
| #2 | 1.0225 | 2.0034 | 2.1323 | .51257 | .49888 | .51044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8814.3** | **110730.** | **9599.3** |
| Stddev | 36.0 | 198. | 80.4 |
| %RSD | .40878 | .17920 | .83797 |
| #1 | 8788.8 | 110870. | 9656.2 |
| #2 | 8839.8 | 110590. | 9542.4 |

Sample Name: 280-45292-h-1-b  Acquired: 8/14/2013 16:52:51  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00039** | **.00688** | **.00342** | **.01130** | **.02960** | **.00003** | **-.00125** | **9.8478** | **.00002** | **.00013** |
| Stddev | .00006 | .00009 | .00177 | .00038 | .00019 | .00001 | .00148 | .0354 | .00020 | .00009 |
| %RSD | 15.895 | 1.2699 | 51.837 | 3.3381 | .65822 | 37.419 | 117.88 | .35988 | 1063.1 | 68.973 |
| #1 | -.00035 | .00694 | .00217 | .01157 | .02974 | .00004 | -.00021 | 9.8729 | .00016 | .00019 |
| #2 | -.00043 | .00682 | .00468 | .01103 | .02946 | .00003 | -.00230 | 9.8227 | -.00012 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00014** | **.01657** | **.70616** | **.00415** | **1.1932** | **.08188** | **.01056** | **105.28** | **.00015** |
| Stddev | .00002 | .00022 | .00260 | .07589 | .00231 | .0030 | .00004 | .00012 | .46 | .00003 |
| %RSD | 241.09 | 153.77 | 15.668 | 10.746 | 55.614 | .24840 | .04787 | 1.1151 | .44135 | 21.640 |
| #1 | -.00001 | -.00001 | .01473 | .75982 | .00578 | 1.1911 | .08185 | .01064 | 105.61 | .00013 |
| #2 | .00002 | .00029 | .01840 | .65250 | .00252 | 1.1953 | .08191 | .01048 | 104.95 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00506** | **-.00017** | **19.317** | **-.00160** | **.00164** | **3.3247** | **7.1149** | **-.00013** | **.20490** | **.00022** |
| Stddev | .00082 | .00029 | .028 | .00145 | .00107 | .0101 | .0215 | .00032 | .00032 | .00256 |
| %RSD | 16.110 | 172.19 | .14584 | 90.773 | 65.198 | .30236 | .30236 | 244.14 | .15435 | 1170.4 |
| #1 | .00564 | -.00037 | 19.297 | -.00057 | .00240 | 3.3176 | 7.0996 | -.00036 | .20512 | -.00159 |
| #2 | .00449 | .00004 | 19.337 | -.00262 | .00088 | 3.3318 | 7.1301 | .00010 | .20467 | .00203 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00082** | **.02174** | **.00086** | **.00342** | **-.00128** |
| Stddev | .00010 | .00088 | .02438 | .00026 | .00036 | .00042 |
| %RSD | 25.412 | 106.86 | 112.15 | 30.702 | 10.540 | 32.782 |
| #1 | .00032 | .00145 | .03898 | .00068 | .00316 | -.00098 |
| #2 | .00046 | .00020 | .00450 | .00105 | .00367 | -.00157 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9046.1** | **114530.** | **9944.9** |
| Stddev | 8.8 | 461. | 52.9 |
| %RSD | .09723 | .40239 | .53197 |
| #1 | 9052.4 | 114860. | 9907.5 |
| #2 | 9039.9 | 114200. | 9982.3 |

Sample Name: 280-45292-h-1-bSD@5 Acquired: 8/14/2013 16:55:10 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.01614** | **.00107** | **.00430** | **.00585** | **-.00005** | **-.00090** | **2.0470** | **-.00002** | **.00012** |
| Stddev | .00048 | .00006 | .00076 | .00021 | .00015 | .00006 | .00054 | .0055 | .00005 | .00003 |
| %RSD | 127.46 | .36414 | 71.276 | 4.9072 | 2.4809 | 135.83 | 59.779 | .26753 | 198.14 | 24.649 |
| #1 | .00072 | .01618 | .00053 | .00445 | .00595 | -.00009 | -.00128 | 2.0508 | .00001 | .00010 |
| #2 | .00004 | .01610 | .00160 | .00415 | .00575 | .00000 | -.00052 | 2.0431 | -.00006 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **-.00010** | **.01054** | **.20431** | **.00086** | **.25275** | **.01723** | **.00210** | **22.162** | **.00044** |
| Stddev | .00011 | .00040 | .00267 | .00283 | .00193 | .00164 | .00004 | .00013 | .072 | .00004 |
| %RSD | 211.68 | 414.46 | 25.325 | 1.3867 | 223.34 | .64771 | .24894 | 6.1513 | .32713 | 8.2021 |
| #1 | -.00013 | -.00038 | .01243 | .20632 | -.00050 | .25391 | .01720 | .00219 | 22.214 | .00046 |
| #2 | .00003 | .00019 | .00865 | .20231 | .00223 | .25160 | .01727 | .00201 | 22.111 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00226** | **-.00096** | **3.8641** | **.00093** | **.00070** | **.66307** | **1.4190** | **-.00011** | **.04261** | **.00110** |
| Stddev | .00140 | .00144 | .0128 | .00040 | .00116 | .00199 | .0043 | .00022 | .00002 | .00200 |
| %RSD | 61.940 | 150.02 | .33179 | 43.133 | 166.44 | .29963 | .29963 | 197.11 | .05826 | 180.64 |
| #1 | .00127 | -.00198 | 3.8731 | .00122 | .00152 | .66167 | 1.4160 | .00004 | .04260 | .00252 |
| #2 | .00325 | .00006 | 3.8550 | .00065 | -.00012 | .66448 | 1.4220 | -.00027 | .04263 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **-.00090** | **.00299** | **.00062** | **.00286** | **-.00069** |
| Stddev | .00019 | .00043 | .06312 | .00015 | .00033 | .00207 |
| %RSD | 340.85 | 48.586 | 2112.9 | 24.418 | 11.607 | 297.66 |
| #1 | -.00008 | -.00120 | -.04165 | .00052 | .00263 | .00077 |
| #2 | .00019 | -.00059 | .04762 | .00073 | .00310 | -.00215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9214.1** | **118260.** | **9973.1** |
| Stddev | 14.9 | 20. | 50.4 |
| %RSD | .16197 | .01716 | .50539 |
| #1 | 9224.7 | 118280. | 9937.5 |
| #2 | 9203.6 | 118250. | 10009. |

Sample Name: 280-45292-h-1-c ms  Acquired: 8/14/2013 16:57:30  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04505** | **1.7202** | **.90383** | **.89429** | **1.7317** | **.04342** | F **1.8535** | **51.576** | **.09422** | **.43308** |
| Stddev | .00034 | .0013 | .00540 | .00120 | .0064 | .00013 | .0003 | .147 | .00005 | .00050 |
| %RSD | .74884 | .07694 | .59771 | .13381 | .36839 | .30664 | .01354 | .28476 | .05091 | .11539 |
| #1 | .04481 | 1.7193 | .90001 | .89514 | 1.7362 | .04352 | 1.8533 | 51.680 | .09419 | .43273 |
| #2 | .04529 | 1.7211 | .90765 | .89344 | 1.7272 | .04333 | 1.8537 | 51.472 | .09426 | .43344 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17271** | **.22393** | **.87986** | **44.707** | **.87161** | **42.972** | **.50466** | **.87139** | **132.78** | **.42718** |
| Stddev | .00043 | .00120 | .00096 | .150 | .00150 | .008 | .00074 | .00176 | .19 | .00083 |
| %RSD | .24855 | .53589 | .10917 | .33518 | .17237 | .01890 | .14631 | .20147 | .14199 | .19502 |
| #1 | .17302 | .22308 | .87918 | 44.813 | .87267 | 42.978 | .50414 | .87264 | 132.92 | .42777 |
| #2 | .17241 | .22478 | .88054 | 44.601 | .87055 | 42.966 | .50518 | .87015 | 132.65 | .42659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.9633** | **.43400** | **16.956** | **.43937** | **1.7642** | **11.682** | **24.999** | **1.7152** | **1.0552** | **.84546** |
| Stddev | .0097 | .00106 | .004 | .00011 | .0076 | .025 | .053 | .0009 | .0020 | .00214 |
| %RSD | .10774 | .24353 | .02321 | .02608 | .43006 | .21138 | .21138 | .05103 | .18538 | .25344 |
| #1 | 8.9702 | .43474 | 16.958 | .43945 | 1.7696 | 11.699 | 25.036 | 1.7158 | 1.0565 | .84394 |
| #2 | 8.9565 | .43325 | 16.953 | .43928 | 1.7588 | 11.664 | 24.962 | 1.7146 | 1.0538 | .84697 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89242** | **1.7377** | **1.7969** | **.44681** | **.42840** | **.44969** |
| Stddev | .00013 | .0026 | .0069 | .00056 | .00090 | .00139 |
| %RSD | .01503 | .15210 | .38629 | .12515 | .21082 | .30946 |
| #1 | .89232 | 1.7396 | 1.8018 | .44720 | .42776 | .45067 |
| #2 | .89251 | 1.7359 | 1.7920 | .44641 | .42903 | .44870 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8898.3** | **112640.** | **9810.4** |
| Stddev | 1.2 | 95. | 60.6 |
| %RSD | .01383 | .08433 | .61773 |
| #1 | 8897.4 | 112700. | 9767.5 |
| #2 | 8899.1 | 112570. | 9853.2 |

Sample Name: 280-45292-h-1-d msd  Acquired: 8/14/2013 16:59:36  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04362** | **1.6066** | **.85124** | **.85111** | **1.6020** | **.04040** | F **1.7674** | **47.929** | **.08871** | **.40347** |
| Stddev | .00016 | .0022 | .00131 | .00076 | .0066 | .00026 | .0044 | .264 | .00029 | .00102 |
| %RSD | .37270 | .13828 | .15419 | .08938 | .41045 | .63649 | .24845 | .55183 | .33088 | .25399 |
| #1 | .04373 | 1.6050 | .85216 | .85165 | 1.5973 | .04022 | 1.7705 | 47.742 | .08892 | .40419 |
| #2 | .04350 | 1.6081 | .85031 | .85057 | 1.6066 | .04059 | 1.7643 | 48.116 | .08851 | .40274 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15994** | **.20683** | **.81682** | **41.895** | **.81296** | **39.907** | **.47029** | **.81957** | **125.69** | **.39766** |
| Stddev | .00018 | .00045 | .00564 | .183 | .00163 | .007 | .00020 | .00132 | .28 | .00030 |
| %RSD | .11155 | .21801 | .68998 | .43600 | .20071 | .01773 | .04181 | .16123 | .21952 | .07448 |
| #1 | .16007 | .20652 | .81284 | 41.766 | .81181 | 39.912 | .47043 | .82050 | 125.49 | .39745 |
| #2 | .15982 | .20715 | .82081 | 42.024 | .81412 | 39.902 | .47015 | .81863 | 125.89 | .39787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.4118** | **.41114** | **16.444** | **.41326** | **1.6653** | **11.082** | **23.715** | **1.6189** | **.98193** | **.77985** |
| Stddev | .0072 | .00005 | .006 | .00237 | .0042 | .059 | .125 | .0018 | .00227 | .00228 |
| %RSD | .08512 | .01158 | .03513 | .57260 | .25024 | .52851 | .52851 | .10928 | .23164 | .29253 |
| #1 | 8.4168 | .41111 | 16.440 | .41493 | 1.6683 | 11.040 | 23.627 | 1.6177 | .98032 | .78147 |
| #2 | 8.4067 | .41118 | 16.448 | .41158 | 1.6624 | 11.123 | 23.804 | 1.6202 | .98354 | .77824 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.83074** | **1.6619** | **1.6904** | **.41355** | **.39975** | **.41710** |
| Stddev | .00036 | .0010 | .0059 | .00058 | .00087 | .00357 |
| %RSD | .04296 | .05713 | .34805 | .13926 | .21655 | .85637 |
| #1 | .83099 | 1.6626 | 1.6946 | .41314 | .40036 | .41458 |
| #2 | .83049 | 1.6612 | 1.6862 | .41396 | .39914 | .41963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8873.3** | **111590.** | **9773.6** |
| Stddev | 32.8 | 189. | 55.7 |
| %RSD | .36960 | .16977 | .57004 |
| #1 | 8850.2 | 111730. | 9813.0 |
| #2 | 8896.5 | 111460. | 9734.2 |

Sample Name: 280-45317-b-1-b  Acquired: 8/14/2013 17:01:41  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00068** | **.34387** | **.00242** | **.00839** | **.02957** | **-.00002** | **.00271** | **292.26** | **.00165** | **.00750** |
| Stddev | .00011 | .00082 | .00240 | .00079 | .00000 | .00010 | .00078 | 1.34 | .00006 | .00021 |
| %RSD | 15.740 | .23955 | 99.008 | 9.3860 | .00551 | 473.18 | 28.588 | .45891 | 3.7067 | 2.8334 |
| #1 | -.00061 | .34328 | .00412 | .00895 | .02957 | -.00009 | .00217 | 291.31 | .00160 | .00735 |
| #2 | -.00076 | .34445 | .00073 | .00783 | .02957 | .00005 | .00326 | 293.21 | .00169 | .00765 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.07714** | **.04982** | **5.7162** | **.01284** | **11.353** | **.84146** | **.00230** | **34.913** | **.00997** |
| Stddev | .00007 | .00035 | .00140 | .0267 | .00335 | .014 | .00011 | .00034 | .189 | .00010 |
| %RSD | 80.625 | .45167 | 2.8097 | .46625 | 26.069 | .12342 | .01271 | 14.867 | .54243 | .98443 |
| #1 | .00014 | .07689 | .04883 | 5.7350 | .01521 | 11.343 | .84138 | .00206 | 34.779 | .00990 |
| #2 | .00004 | .07738 | .05081 | 5.6973 | .01047 | 11.363 | .84154 | .00254 | 35.047 | .01004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00255** | **-.00121** | F **274.55** | **-.00161** | **.00314** | **2.6130** | **5.5918** | **.00005** | **.67839** | **-.00166** |
| Stddev | .00123 | .00081 | .28 | .00028 | .00159 | .0118 | .0252 | .00060 | .00144 | .00097 |
| %RSD | 48.437 | 67.140 | .10133 | 17.254 | 50.648 | .45110 | .45110 | 1268.6 | .21264 | 58.571 |
| #1 | .00167 | -.00178 | 274.74 | -.00141 | .00427 | 2.6047 | 5.5740 | .00047 | .67737 | -.00097 |
| #2 | .00342 | -.00063 | 274.35 | -.00180 | .00202 | 2.6213 | 5.6097 | -.00038 | .67941 | -.00235 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00153** | **-.00166** | **.00126** | **.22884** | **-.00149** |
| Stddev | .00022 | .00022 | .01586 | .00001 | .00009 | .00121 |
| %RSD | 38.677 | 14.087 | 952.78 | .50245 | .04115 | 81.019 |
| #1 | .00072 | .00138 | .00955 | .00127 | .22891 | -.00064 |
| #2 | .00041 | .00168 | -.01288 | .00126 | .22878 | -.00234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8843.5** | **111850.** | **9881.2** |
| Stddev | 33.2 | 1. | 42.4 |
| %RSD | .37514 | .00100 | .42951 |
| #1 | 8867.0 | 111850. | 9851.2 |
| #2 | 8820.1 | 111860. | 9911.2 |

Sample Name: 280-45317-b-2-b  Acquired: 8/14/2013 17:04:04  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **4.8362** | **.00037** | **.00887** | **.02931** | **-.00006** | **.00052** | **430.89** | **.00029** | **.00079** |
| Stddev | .00015 | .0423 | .00019 | .00009 | .00004 | .00008 | .00178 | 8.07 | .00016 | .00013 |
| %RSD | 56.667 | .87516 | 51.568 | 1.0266 | .13025 | 125.38 | 345.41 | 1.8734 | 53.846 | 16.185 |
| #1 | -.00036 | 4.8063 | .00024 | .00893 | .02933 | -.00001 | -.00074 | 425.18 | .00040 | .00070 |
| #2 | -.00015 | 4.8661 | .00051 | .00880 | .02928 | -.00012 | .00178 | 436.59 | .00018 | .00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00232** | **.00209** | **7.8186** | **.02003** | **13.191** | **.32131** | **.00242** | **52.354** | **.00019** |
| Stddev | .00017 | .00031 | .00108 | .0228 | .00225 | .022 | .00024 | .00031 | .307 | .00060 |
| %RSD | 43.657 | 13.462 | 51.550 | .29117 | 11.214 | .16502 | .07483 | 12.936 | .58546 | 314.84 |
| #1 | .00027 | .00254 | .00133 | 7.8347 | .01844 | 13.206 | .32114 | .00220 | 52.137 | -.00023 |
| #2 | .00052 | .00210 | .00286 | 7.8025 | .02162 | 13.175 | .32148 | .00264 | 52.571 | .00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00326** | **-.00190** | F **384.05** | **.00292** | **.00185** | **.12561** | **.26880** | **.00038** | **.90614** | **-.00002** |
| Stddev | .00060 | .00066 | .61 | .00441 | .00202 | .00852 | .01824 | .00033 | .00409 | .00178 |
| %RSD | 18.295 | 34.939 | .15846 | 151.15 | 109.30 | 6.7867 | 6.7867 | 85.862 | .45136 | 7209.4 |
| #1 | .00368 | -.00237 | 384.48 | -.00020 | .00042 | .13164 | .28170 | .00062 | .90324 | -.00129 |
| #2 | .00284 | -.00143 | 383.62 | .00603 | .00328 | .11958 | .25590 | .00015 | .90903 | .00124 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00100** | **-.02184** | **.00131** | **.00189** | **-.00080** |
| Stddev | .00037 | .00036 | .03773 | .00004 | .00039 | .00116 |
| %RSD | 298.95 | 36.026 | 172.78 | 2.7331 | 20.786 | 144.73 |
| #1 | .00038 | .00126 | .00484 | .00129 | .00161 | .00002 |
| #2 | -.00014 | .00075 | -.04852 | .00134 | .00217 | -.00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8582.8** | **107470.** | **9494.1** |
| Stddev | 21.4 | 205. | 53.4 |
| %RSD | .24917 | .19066 | .56298 |
| #1 | 8597.9 | 107610. | 9531.9 |
| #2 | 8567.6 | 107320. | 9456.3 |

Sample Name: 280-45317-b-3-b  Acquired: 8/14/2013 17:06:27  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186899 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00171** | **52.183** | **.00609** | **.00685** | **.01531** | **.01042** | **.00437** | **206.47** | **.06303** | **.22792** |
| Stddev | .00006 | .230 | .00118 | .00035 | .00032 | .00004 | .00176 | 4.19 | .00033 | .00035 |
| %RSD | 3.4674 | .44020 | 19.291 | 5.1429 | 2.0681 | .38577 | 40.207 | 2.0300 | .52181 | .15436 |
| #1 | -.00167 | 52.021 | .00526 | .00710 | .01553 | .01039 | .00313 | 203.51 | .06327 | .22817 |
| #2 | -.00175 | 52.346 | .00692 | .00660 | .01508 | .01044 | .00561 | 209.44 | .06280 | .22768 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00532** | W **13.779** | **23.603** | **7.2150** | **.02271** | **31.607** | W **12.347** | **-.00086** | **52.127** | **.25676** |
| Stddev | .00003 | .259 | .168 | .0106 | .00257 | .146 | .082 | .00030 | .143 | .00038 |
| %RSD | .60238 | 1.8827 | .71148 | .14750 | 11.331 | .46095 | .66413 | 34.809 | .27526 | .14802 |
| #1 | .00529 | 13.963 | 23.484 | 7.2075 | .02453 | 31.504 | 12.405 | -.00107 | 52.026 | .25702 |
| #2 | .00534 | 13.596 | 23.721 | 7.2225 | .02089 | 31.710 | 12.289 | -.00065 | 52.229 | .25649 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | 10.000 | | | |
| Low Limit | | -.01000 | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00917** | **.06882** | F **370.35** | **.00045** | **.00131** | **16.415** | **35.129** | **.00066** | **.72036** | **.00191** |
| Stddev | .00025 | .00113 | .27 | .00140 | .00228 | .048 | .103 | .00081 | .00216 | .00257 |
| %RSD | 2.7760 | 1.6472 | .07331 | 307.46 | 173.94 | .29355 | .29355 | 121.81 | .30018 | 134.36 |
| #1 | .00899 | .06962 | 370.54 | -.00053 | -.00030 | 16.381 | 35.056 | .00009 | .71883 | .00010 |
| #2 | .00935 | .06801 | 370.16 | .00144 | .00292 | 16.450 | 35.202 | .00123 | .72189 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00130** | F **-.14388** | **.01099** | **6.6496** | **-.00125** |
| Stddev | .00012 | .00030 | .02435 | .00027 | .0181 | .00024 |
| %RSD | 84.628 | 23.331 | 16.922 | 2.4783 | .27226 | 19.369 |
| #1 | .00006 | .00151 | -.12666 | .01118 | 6.6368 | -.00108 |
| #2 | .00022 | .00108 | -.16109 | .01080 | 6.6624 | -.00142 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9282.6** | **115740.** | **10285.** |
| Stddev | 15.5 | 820. | 102. |
| %RSD | .16656 | .70870 | .99654 |
| #1 | 9293.5 | 116320. | 10357. |
| #2 | 9271.6 | 115160. | 10212. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 17:08:57 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **50.233** | **.00514** | **.00279** | **.00061** | **-.00008** | **1.0113** | **-.00363** | **-.00001** | **.00036** | **-.00012** | **.00302** | **49.254** |
| Stddev | .00007 | .040 | .00126 | .00028 | .00028 | .00008 | .0022 | .00234 | .00031 | .00012 | .00007 | .00008 | .129 |
| %RSD | 33.427 | .07892 | 24.434 | 10.154 | 45.714 | 99.405 | .21390 | 64.472 | 5151.0 | 31.914 | 59.778 | 2.5455 | .26270 |
| #1 | .00016 | 50.205 | .00425 | .00259 | .00041 | -.00014 | 1.0128 | -.00198 | -.00022 | .00028 | -.00007 | .00296 | 49.345 |
| #2 | .00026 | 50.261 | .00603 | .00299 | .00080 | -.00002 | 1.0098 | -.00529 | .00021 | .00044 | -.00018 | .00307 | 49.162 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14337** | **.00189** | **-.01193** | **.00011** | **-.00015** | **248.44** | **.00062** | **.00300** | **.00190** | **5.1672** | **.00266** | **-.00165** | **-.01070** |
| Stddev | .01105 | .00042 | .00103 | .00001 | .00040 | .62 | .00031 | .00021 | .00204 | .0103 | .00183 | .00026 | .00204 |
| %RSD | 7.7066 | 22.496 | 8.6192 | 8.0248 | 259.06 | .24811 | 49.257 | 6.9383 | 107.44 | .19870 | 68.651 | 15.598 | 19.072 |
| #1 | .15118 | .00159 | -.01120 | .00010 | -.00044 | 248.01 | .00041 | .00285 | .00334 | 5.1599 | .00395 | -.00147 | -.00925 |
| #2 | .13556 | .00219 | -.01266 | .00012 | .00013 | 248.88 | .00084 | .00315 | .00046 | 5.1744 | .00137 | -.00183 | -.01214 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02289** | **.00017** | **.00046** | **4.9270** | **-.00086** | **.00036** | **10.130** | **.00185** | **.00037** | **.02459** |
| Stddev | .00437 | .00012 | .00003 | .0122 | .00023 | .00070 | .077 | .00005 | .00002 | .00182 |
| %RSD | 19.072 | 69.783 | 7.5242 | .24824 | 26.243 | 192.66 | .75953 | 2.9521 | 6.6243 | 7.3922 |
| #1 | -.01980 | .00026 | .00044 | 4.9356 | -.00102 | -.00013 | 10.076 | .00181 | .00039 | .02330 |
| #2 | -.02598 | .00009 | .00049 | 4.9183 | -.00070 | .00085 | 10.185 | .00189 | .00035 | .02587 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8926.6** | **110930.** | **9728.3** |
| Stddev | 27.5 | 55. | 10.4 |
| %RSD | .30828 | .04999 | .10707 |
| #1 | 8907.1 | 110890. | 9721.0 |
| #2 | 8946.1 | 110970. | 9735.7 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 17:11:18 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50023** | **.52092** | **.98070** | **.49901** | **.48407** | **.49934** | **-.00251** | **5.0122** | **.50289** | **.50922** | **.49545** | **.51011** | **2.5246** |
| Stddev | .00188 | .00105 | .00635 | .00091 | .00148 | .00202 | .00065 | .0277 | .00032 | .00012 | .00016 | .00016 | .0017 |
| %RSD | .37678 | .20077 | .64789 | .18330 | .30512 | .40462 | 26.053 | .55179 | .06367 | .02324 | .03172 | .03114 | .06818 |
| #1 | .50156 | .52166 | .97621 | .49836 | .48511 | .50077 | -.00205 | 5.0317 | .50311 | .50913 | .49556 | .51000 | 2.5258 |
| #2 | .49890 | .52018 | .98520 | .49965 | .48303 | .49791 | -.00298 | 4.9926 | .50266 | .50930 | .49534 | .51022 | 2.5234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.030** | **.99319** | **19.443** | **.50445** | **.49169** | **5.2411** | **.50129** | **.97620** | **1.0113** | **.05119** | **1.0209** | **.98827** | **4.9396** |
| Stddev | .279 | .00052 | .002 | .00070 | .00062 | .0210 | .00043 | .00028 | .0003 | .00656 | .0015 | .00140 | .0050 |
| %RSD | .55670 | .05211 | .01216 | .13903 | .12523 | .40124 | .08552 | .02863 | .03192 | 12.815 | .14307 | .14191 | .10067 |
| #1 | 50.227 | .99356 | 19.441 | .50396 | .49125 | 5.2559 | .50160 | .97640 | 1.0110 | .05583 | 1.0219 | .98926 | 4.9361 |
| #2 | 49.833 | .99282 | 19.444 | .50495 | .49212 | 5.2262 | .50099 | .97601 | 1.0115 | .04655 | 1.0198 | .98728 | 4.9431 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.571** | **.98518** | **.50287** | **-.00400** | **.50779** | **1.0345** | **.00376** | **.50084** | **.48884** | **.50657** |
| Stddev | .011 | .00165 | .00202 | .00210 | .00068 | .0004 | .00371 | .00032 | .00224 | .00087 |
| %RSD | .10067 | .16739 | .40165 | 52.416 | .13443 | .04156 | 98.628 | .06482 | .45872 | .17270 |
| #1 | 10.563 | .98401 | .50430 | -.00549 | .50730 | 1.0342 | .00114 | .50107 | .49043 | .50595 |
| #2 | 10.578 | .98635 | .50144 | -.00252 | .50827 | 1.0348 | .00639 | .50061 | .48726 | .50719 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9147.8** | **115400.** | **9749.6** |
| Stddev | 12.9 | 361. | 70.2 |
| %RSD | .14065 | .31280 | .71954 |
| #1 | 9138.7 | 115660. | 9700.0 |
| #2 | 9156.9 | 115150. | 9799.2 |

Sample Name: CCB Acquired: 8/14/2013 17:13:27 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00011** | **-.00001** | **.00226** | **.00007** | **.00005** | **.00180** | **.00533** | **-.00011** | **.00012** | **-.00012** | **-.00016** | **.00000** |
| Stddev | .00004 | .00012 | .00049 | .00039 | .00024 | .00002 | .00007 | .00219 | .00005 | .00014 | .00008 | .00009 | .0003 |
| %RSD | 11.210 | 105.54 | 8842.8 | 17.379 | 352.83 | 42.865 | 3.6465 | 41.124 | 43.866 | 109.21 | 64.454 | 53.076 | 104510. |
| #1 | .00037 | .00003 | .00034 | .00253 | -.00010 | .00003 | .00184 | .00378 | -.00014 | .00003 | -.00007 | -.00010 | .00019 |
| #2 | .00032 | .00020 | -.00035 | .00198 | .00023 | .00006 | .00175 | .00688 | -.00008 | .00022 | -.00018 | -.00023 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08732** | **-.00152** | **.00211** | **.00009** | **.00049** | **.06532** | **-.00001** | **.00126** | **.00041** | **.03147** | **.00073** | **.00373** | **.00327** |
| Stddev | .00911 | .00118 | .00123 | .00006 | .00018 | .00311 | .00018 | .00101 | .00129 | .00045 | .00166 | .00010 | .00274 |
| %RSD | 10.430 | 77.843 | 58.402 | 66.090 | 37.232 | 4.7573 | 3151.0 | 79.959 | 312.25 | 1.4196 | 227.05 | 2.5726 | 83.707 |
| #1 | .09375 | -.00235 | .00298 | .00005 | .00036 | .06752 | -.00014 | .00055 | -.00050 | .03116 | .00191 | .00367 | .00520 |
| #2 | .08088 | -.00068 | .00124 | .00013 | .00061 | .06312 | .00012 | .00197 | .00133 | .03179 | -.00044 | .00380 | .00133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00699** | **.00019** | **.00006** | **-.00071** | **.00022** | **-.00094** | **.02453** | **.00058** | **.00079** | **-.00148** |
| Stddev | .00585 | .00023 | .00000 | .00260 | .00039 | .00034 | .00615 | .00022 | .00033 | .00047 |
| %RSD | 83.707 | 124.24 | 1.8361 | 366.45 | 179.26 | 36.148 | 25.057 | 38.274 | 42.224 | 31.658 |
| #1 | .01113 | .00002 | .00006 | -.00255 | .00049 | -.00119 | .02888 | .00073 | .00056 | -.00115 |
| #2 | .00285 | .00035 | .00007 | .00113 | -.00006 | -.00070 | .02019 | .00042 | .00103 | -.00181 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9280.7** | **118360.** | **9740.0** |
| Stddev | .9 | 54. | 10.7 |
| %RSD | .00922 | .04554 | .10941 |
| #1 | 9281.3 | 118320. | 9747.6 |
| #2 | 9280.1 | 118390. | 9732.5 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 17:15:44 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01021** | **.10771** | **.01687** | **.09550** | **.00983** | **.00092** | **.10887** | **.20369** | **.00509** | **.01065** | **.01019** | **.01507** | **.10334** |
| Stddev | .00012 | .00007 | .00207 | .00020 | .00023 | .00008 | .00045 | .00076 | .00004 | .00001 | .00002 | .00023 | .00099 |
| %RSD | 1.2192 | .06893 | 12.293 | .21050 | 2.3197 | 8.4153 | .40968 | .37183 | .77297 | .05032 | .20758 | 1.5432 | .95797 |
| #1 | .01012 | .10777 | .01834 | .09536 | .00967 | .00087 | .10855 | .20316 | .00506 | .01065 | .01018 | .01523 | .10404 |
| #2 | .01030 | .10766 | .01540 | .09564 | .00999 | .00098 | .10919 | .20423 | .00512 | .01065 | .01021 | .01490 | .10264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1132** | **.00947** | **.20049** | **.01042** | **.01956** | **1.1276** | **.04155** | **2.8021** | **.00990** | **.02235** | **.00950** | **.01656** | **.48767** |
| Stddev | .0476 | .00179 | .00115 | .00004 | .00005 | .0104 | .00027 | .0088 | .00062 | .00127 | .00132 | .00046 | .00707 |
| %RSD | 1.5277 | 18.916 | .57516 | .41123 | .24270 | .92243 | .66070 | .31343 | 6.2801 | 5.6857 | 13.873 | 2.7597 | 1.4493 |
| #1 | 3.0795 | .01073 | .20130 | .01039 | .01953 | 1.1350 | .04175 | 2.8083 | .00946 | .02325 | .00856 | .01688 | .49267 |
| #2 | 3.1468 | .00820 | .19967 | .01045 | .01960 | 1.1203 | .04136 | 2.7958 | .01034 | .02145 | .01043 | .01623 | .48268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0436** | **.10066** | **.01021** | **.01524** | **.01007** | **.01528** | F **.03819** | **.01074** | **.02047** | **.01385** |
| Stddev | .0151 | .00085 | .00004 | .00035 | .00010 | .00139 | .01551 | .00022 | .00024 | .00033 |
| %RSD | 1.4493 | .83976 | .37170 | 2.2767 | 1.0381 | 9.1040 | 40.615 | 2.0390 | 1.1720 | 2.3624 |
| #1 | 1.0543 | .10125 | .01024 | .01549 | .01000 | .01430 | .04916 | .01059 | .02031 | .01408 |
| #2 | 1.0329 | .10006 | .01019 | .01500 | .01014 | .01627 | .02722 | .01090 | .02064 | .01361 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9129.0** | **117050.** | **9616.8** |
| Stddev | .7 | 364. | 42.0 |
| %RSD | .00739 | .31115 | .43681 |
| #1 | 9128.6 | 116800. | 9587.1 |
| #2 | 9129.5 | 117310. | 9646.5 |

Sample Name: mb 280-187020/1-a  Acquired: 8/14/2013 17:18:02  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00100** | **.00147** | **.00185** | **.00015** | **-.00004** | **-.00027** | **.00383** | **-.00015** | **.00020** |
| Stddev | .00008 | .00026 | .00028 | .00014 | .00005 | .00003 | .00282 | .00303 | .00030 | .00012 |
| %RSD | 105.19 | 26.052 | 18.845 | 7.3261 | 37.021 | 76.308 | 1058.5 | 79.075 | 197.06 | 61.204 |
| #1 | .00014 | .00082 | .00127 | .00195 | .00018 | -.00002 | -.00226 | .00597 | .00006 | .00029 |
| #2 | .00002 | .00119 | .00166 | .00176 | .00011 | -.00006 | .00172 | .00169 | -.00036 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00020** | **.00567** | **.09435** | **-.00006** | **.00049** | **.00014** | **.00004** | W **.05245** | **-.00003** |
| Stddev | .00002 | .00047 | .00145 | .06078 | .00118 | .00001 | .00007 | .00010 | .02134 | .00014 |
| %RSD | 175.36 | 240.27 | 25.598 | 64.425 | 2086.4 | 1.8815 | 47.141 | 273.73 | 40.691 | 543.88 |
| #1 | .00000 | .00053 | .00465 | .13733 | -.00089 | .00050 | .00019 | .00011 | .03736 | -.00013 |
| #2 | -.00003 | -.00014 | .00670 | .05137 | .00078 | .00048 | .00009 | -.00004 | .06754 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | .05054 | |
| Low Limit | | | | | | | | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00259** | **.00049** | F **.02209** | **.00058** | **.00256** | **-.00046** | **-.00098** | **.00001** | **.00002** | W **.00108** |
| Stddev | .00150 | .00008 | .00252 | .00041 | .00026 | .02639 | .05647 | .00022 | .00011 | .00017 |
| %RSD | 57.688 | 16.130 | 11.421 | 71.306 | 10.314 | 5757.0 | 5757.0 | 3673.1 | 515.97 | 15.593 |
| #1 | .00365 | .00055 | .02031 | .00087 | .00275 | .01820 | .03895 | -.00015 | -.00006 | .00096 |
| #2 | .00153 | .00044 | .02388 | .00029 | .00238 | -.01912 | -.04091 | .00016 | .00010 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .01000 | | | | | | | .00000 |
| Low Limit | | | -.01000 | | | | | | | -.00500 |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **-.00154** | **.02796** | **.00053** | **.00213** | **-.00232** |
| Stddev | .00020 | .00103 | .00998 | .00011 | .00008 | .00141 |
| %RSD | 33.292 | 67.011 | 35.689 | 20.785 | 3.8837 | 60.707 |
| #1 | .00073 | -.00227 | .03501 | .00061 | .00219 | -.00331 |
| #2 | .00045 | -.00081 | .02090 | .00045 | .00207 | -.00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9154.3** | **117240.** | **9705.6** |
| Stddev | 3.4 | 3. | 21.6 |
| %RSD | .03696 | .00231 | .22224 |
| #1 | 9156.7 | 117240. | 9720.8 |
| #2 | 9151.9 | 117230. | 9690.3 |

Sample Name: lcs 280-187020/2-a  Acquired: 8/14/2013 17:20:18  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05076** | **2.0442** | **1.0407** | **.99881** | **2.0252** | **.05158** | **2.1247** | **51.424** | **.10917** | **.51410** |
| Stddev | .00060 | .0031 | .0026 | .00180 | .0011 | .00012 | .0038 | .039 | .00032 | .00066 |
| %RSD | 1.1840 | .15363 | .24953 | .18033 | .05497 | .22880 | .17995 | .07499 | .29722 | .12757 |
| #1 | .05034 | 2.0464 | 1.0425 | .99754 | 2.0259 | .05166 | 2.1220 | 51.451 | .10940 | .51456 |
| #2 | .05119 | 2.0420 | 1.0389 | 1.0001 | 2.0244 | .05149 | 2.1274 | 51.397 | .10894 | .51363 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20607** | **.26428** | **1.0803** | **52.194** | **1.0276** | **50.400** | **.51964** | **.99559** | **52.066** | **.50628** |
| Stddev | .00001 | .00089 | .0027 | .120 | .0053 | .122 | .00126 | .00084 | .029 | .00014 |
| %RSD | .00674 | .33809 | .24684 | .23024 | .51143 | .24259 | .24203 | .08477 | .05568 | .02768 |
| #1 | .20606 | .26492 | 1.0821 | 52.279 | 1.0313 | 50.486 | .52053 | .99619 | 52.045 | .50618 |
| #2 | .20608 | .26365 | 1.0784 | 52.109 | 1.0238 | 50.313 | .51875 | .99500 | 52.086 | .50638 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.323** | **.51610** | **.00830** | **.49611** | **2.0266** | **10.059** | **21.526** | **1.9743** | **1.0444** | **.98413** |
| Stddev | .004 | .00148 | .00278 | .00170 | .0012 | .011 | .024 | .0005 | .0006 | .00037 |
| %RSD | .04066 | .28694 | 33.464 | .34250 | .06134 | .10956 | .10956 | .02398 | .06257 | .03731 |
| #1 | 10.326 | .51715 | .00634 | .49491 | 2.0257 | 10.067 | 21.543 | 1.9739 | 1.0449 | .98439 |
| #2 | 10.320 | .51505 | .01027 | .49731 | 2.0275 | 10.051 | 21.509 | 1.9746 | 1.0440 | .98387 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0315** | **2.0402** | **2.2119** | **.52822** | **.50575** | **.51828** |
| Stddev | .0012 | .0033 | .0481 | .00041 | .00198 | .00404 |
| %RSD | .11392 | .16088 | 2.1761 | .07761 | .39155 | .77982 |
| #1 | 1.0323 | 2.0425 | 2.2459 | .52851 | .50715 | .51542 |
| #2 | 1.0306 | 2.0378 | 2.1778 | .52793 | .50435 | .52114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8767.7** | **110560.** | **9546.1** |
| Stddev | 9.9 | 483. | 15.0 |
| %RSD | .11335 | .43723 | .15680 |
| #1 | 8760.6 | 110220. | 9535.5 |
| #2 | 8774.7 | 110900. | 9556.7 |

Sample Name: lcsd 280-187020/3-a Acquired: 8/14/2013 17:22:25 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05098** | **2.0396** | **1.0392** | **.99797** | **2.0132** | **.05131** | **2.1193** | **51.136** | **.10912** | **.51295** |
| Stddev | .00037 | .0033 | .0011 | .00016 | .0010 | .00013 | .0016 | .062 | .00017 | .00072 |
| %RSD | .73384 | .16001 | .10508 | .01652 | .05068 | .25050 | .07518 | .12123 | .15742 | .14128 |
| #1 | .05071 | 2.0419 | 1.0399 | .99808 | 2.0125 | .05121 | 2.1182 | 51.092 | .10899 | .51243 |
| #2 | .05124 | 2.0373 | 1.0384 | .99785 | 2.0140 | .05140 | 2.1204 | 51.180 | .10924 | .51346 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20502** | **.26353** | **1.0349** | **52.035** | **1.0229** | **50.318** | **.51868** | **.99310** | **51.809** | **.50649** |
| Stddev | .00011 | .00007 | .0029 | .004 | .0008 | .097 | .00020 | .00014 | .162 | .00093 |
| %RSD | .05389 | .02785 | .27856 | .00687 | .08168 | .19220 | .03818 | .01397 | .31324 | .18379 |
| #1 | .20510 | .26347 | 1.0328 | 52.033 | 1.0234 | 50.387 | .51854 | .99320 | 51.694 | .50583 |
| #2 | .20494 | .26358 | 1.0369 | 52.038 | 1.0223 | 50.250 | .51882 | .99300 | 51.924 | .50715 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.291** | **.51422** | **.00517** | **.49476** | **2.0318** | **10.068** | **21.545** | **1.9768** | **1.0415** | **.98841** |
| Stddev | .006 | .00204 | .00104 | .00114 | .0020 | .001 | .001 | .0078 | .0020 | .00666 |
| %RSD | .06254 | .39656 | 20.142 | .23101 | .09963 | .00618 | .00618 | .39374 | .19389 | .67381 |
| #1 | 10.295 | .51566 | .00443 | .49557 | 2.0332 | 10.067 | 21.544 | 1.9823 | 1.0401 | .98370 |
| #2 | 10.286 | .51278 | .00590 | .49395 | 2.0303 | 10.068 | 21.546 | 1.9713 | 1.0430 | .99311 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0310** | **2.0468** | **2.1908** | **.52628** | **.50505** | **.51725** |
| Stddev | .0005 | .0052 | .0115 | .00009 | .00033 | .00089 |
| %RSD | .05031 | .25164 | .52627 | .01713 | .06527 | .17111 |
| #1 | 1.0314 | 2.0504 | 2.1826 | .52622 | .50481 | .51662 |
| #2 | 1.0306 | 2.0431 | 2.1989 | .52634 | .50528 | .51787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8800.5** | **110990.** | **9596.1** |
| Stddev | 12.8 | 29. | 66.4 |
| %RSD | .14512 | .02581 | .69216 |
| #1 | 8809.5 | 111010. | 9643.1 |
| #2 | 8791.5 | 110970. | 9549.2 |

Sample Name: 280-45285-e-1-e  Acquired: 8/14/2013 17:24:32  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00081** | **16.118** | **.00446** | **.01228** | **.06870** | **.00159** | **-.00187** | **2.7480** | **.00026** | **.00504** |
| Stddev | .00019 | .039 | .00054 | .00009 | .00020 | .00006 | .00260 | .0109 | .00002 | .00010 |
| %RSD | 23.631 | .24170 | 12.057 | .69710 | .29581 | 3.7187 | 138.89 | .39686 | 6.0662 | 1.9083 |
| #1 | -.00095 | 16.146 | .00484 | .01234 | .06885 | .00154 | -.00371 | 2.7403 | .00025 | .00510 |
| #2 | -.00068 | 16.091 | .00408 | .01222 | .06856 | .00163 | -.00003 | 2.7557 | .00027 | .00497 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01240** | **.01155** | **12.194** | **3.9004** | **.01207** | **1.2109** | **.53070** | **.00206** | **1.9798** | **.00465** |
| Stddev | .00003 | .00002 | .003 | .0024 | .00250 | .0011 | .00090 | .00006 | .0100 | .00008 |
| %RSD | .21513 | .16278 | .02653 | .06153 | 20.719 | .09393 | .16918 | 2.9959 | .50516 | 1.6444 |
| #1 | .01242 | .01153 | 12.192 | 3.9021 | .01384 | 1.2100 | .53007 | .00211 | 1.9869 | .00471 |
| #2 | .01238 | .01156 | 12.197 | 3.8987 | .01030 | 1.2117 | .53134 | .00202 | 1.9727 | .00460 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25971** | **.01288** | **.81607** | **.00004** | **.00400** | **19.584** | **41.909** | **.00309** | **.01320** | **.01281** |
| Stddev | .00158 | .00010 | .00247 | .00004 | .00011 | .073 | .156 | .00002 | .00024 | .00202 |
| %RSD | .60876 | .75272 | .30269 | 102.29 | 2.8512 | .37161 | .37161 | .65846 | 1.8063 | 15.780 |
| #1 | .25859 | .01294 | .81433 | .00001 | .00408 | 19.635 | 42.019 | .00308 | .01337 | .01138 |
| #2 | .26083 | .01281 | .81782 | .00006 | .00392 | 19.532 | 41.799 | .00310 | .01303 | .01423 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52433** | **.00065** | **-.04744** | **.02946** | **.03889** | **.00426** |
| Stddev | .00234 | .00033 | .00692 | .00008 | .00012 | .00161 |
| %RSD | .44548 | 50.923 | 14.579 | .27227 | .29607 | 37.715 |
| #1 | .52268 | .00042 | -.04255 | .02940 | .03881 | .00540 |
| #2 | .52598 | .00089 | -.05233 | .02952 | .03897 | .00312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9540.8** | **120670.** | **10077.** |
| Stddev | 15.1 | 913. | 47. |
| %RSD | .15797 | .75648 | .46775 |
| #1 | 9551.5 | 121310. | 10110. |
| #2 | 9530.2 | 120020. | 10043. |

Sample Name: 280-45285-e-1-eSD@5 Acquired: 8/14/2013 17:26:48 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **4.1978** | **.00175** | **.00476** | **.01496** | **.00032** | **-.00040** | **.57128** | **-.00007** | **.00109** |
| Stddev | .00031 | .0961 | .00225 | .00008 | .00000 | .00004 | .00082 | .00128 | .00017 | .00014 |
| %RSD | 316.50 | 2.2893 | 128.61 | 1.7523 | .01947 | 13.189 | 202.62 | .22480 | 243.99 | 13.228 |
| #1 | -.00031 | 4.2657 | .00016 | .00470 | .01496 | .00035 | .00018 | .57219 | .00005 | .00119 |
| #2 | .00012 | 4.1298 | .00334 | .00481 | .01496 | .00029 | -.00098 | .57037 | -.00019 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00286** | **.00173** | **2.6189** | **.89824** | **.00256** | **.26429** | **.10904** | **.00022** | **.43410** | **.00126** |
| Stddev | .00004 | .00019 | .0096 | .01100 | .00213 | .00303 | .00055 | .00010 | .02808 | .00001 |
| %RSD | 1.4715 | 11.011 | .36673 | 1.2243 | 83.330 | 1.1469 | .50125 | 44.254 | 6.4679 | .99281 |
| #1 | .00289 | .00159 | 2.6121 | .89046 | .00407 | .26643 | .10866 | .00015 | .45396 | .00125 |
| #2 | .00283 | .00186 | 2.6257 | .90602 | .00105 | .26214 | .10943 | .00028 | .41425 | .00127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05557** | **.00248** | **.17551** | **-.00117** | **.00015** | **5.1510** | **11.023** | **.00041** | **.00293** | **.00117** |
| Stddev | .00206 | .00075 | .00111 | .00417 | .00117 | .0149 | .032 | .00028 | .00001 | .00089 |
| %RSD | 3.7114 | 30.288 | .63175 | 355.09 | 781.29 | .28851 | .28851 | 67.556 | .25752 | 76.286 |
| #1 | .05411 | .00301 | .17629 | -.00412 | .00097 | 5.1615 | 11.046 | .00061 | .00292 | .00054 |
| #2 | .05703 | .00195 | .17472 | .00177 | -.00068 | 5.1405 | 11.001 | .00022 | .00293 | .00180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14832** | **.00008** | **.05203** | **.00704** | **.01064** | **.00247** |
| Stddev | .00613 | .00108 | .00972 | .00008 | .00005 | .00597 |
| %RSD | 4.1345 | 1275.4 | 18.692 | 1.0834 | .49892 | 241.93 |
| #1 | .14398 | .00085 | .04515 | .00709 | .01068 | -.00175 |
| #2 | .15266 | -.00068 | .05890 | .00698 | .01060 | .00669 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9342.1** | **119160.** | **9764.5** |
| Stddev | 15.3 | 422. | 55.7 |
| %RSD | .16409 | .35450 | .57067 |
| #1 | 9352.9 | 119460. | 9725.1 |
| #2 | 9331.2 | 118860. | 9803.9 |

Sample Name: 280-45285-e-1-f ms  Acquired: 8/14/2013 17:29:06  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04885** | **34.714** | **.99347** | **.95821** | **2.0209** | **.05079** | F **2.0363** | **52.321** | **.10553** | **.49754** |
| Stddev | .00010 | .044 | .00011 | .00195 | .0037 | .00004 | .0033 | .005 | .00038 | .00049 |
| %RSD | .20275 | .12586 | .01085 | .20399 | .18067 | .07087 | .16235 | .00866 | .35655 | .09812 |
| #1 | .04878 | 34.745 | .99339 | .95683 | 2.0235 | .05082 | 2.0340 | 52.318 | .10579 | .49719 |
| #2 | .04892 | 34.683 | .99354 | .95960 | 2.0184 | .05077 | 2.0387 | 52.325 | .10526 | .49788 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21232** | **.27062** | **14.442** | **54.043** | **1.0065** | **49.943** | **1.0316** | **.94142** | **52.009** | **.49281** |
| Stddev | .00007 | .00046 | .059 | .156 | .0046 | .131 | .0002 | .00098 | .352 | .00006 |
| %RSD | .03140 | .16982 | .41180 | .28831 | .46184 | .26189 | .02264 | .10387 | .67586 | .01207 |
| #1 | .21227 | .27094 | 14.484 | 54.153 | 1.0032 | 50.035 | 1.0315 | .94073 | 51.760 | .49285 |
| #2 | .21236 | .27029 | 14.400 | 53.933 | 1.0098 | 49.850 | 1.0318 | .94211 | 52.257 | .49277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.8978** | **.50128** | **.83238** | **.46576** | **1.9358** | **46.420** | **99.339** | **1.8665** | **1.0229** | **.96610** |
| Stddev | .0159 | .00044 | .00007 | .00054 | .0044 | .102 | .218 | .0020 | .0014 | .00203 |
| %RSD | .16071 | .08818 | .00790 | .11617 | .22812 | .21955 | .21955 | .10489 | .13463 | .21049 |
| #1 | 9.8866 | .50097 | .83233 | .46614 | 1.9327 | 46.492 | 99.493 | 1.8679 | 1.0219 | .96466 |
| #2 | 9.9091 | .50160 | .83243 | .46538 | 1.9390 | 46.348 | 99.185 | 1.8651 | 1.0239 | .96754 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6484** | **1.9379** | **2.0305** | **.53790** | **.53242** | **.50202** |
| Stddev | .0159 | .0012 | .0471 | .00017 | .00068 | .00122 |
| %RSD | .96736 | .06001 | 2.3200 | .03123 | .12751 | .24397 |
| #1 | 1.6597 | 1.9387 | 2.0638 | .53778 | .53290 | .50288 |
| #2 | 1.6372 | 1.9371 | 1.9971 | .53802 | .53194 | .50115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9129.8** | **113310.** | **9912.0** |
| Stddev | 8.2 | 384. | 53.7 |
| %RSD | .09026 | .33901 | .54136 |
| #1 | 9124.0 | 113030. | 9874.1 |
| #2 | 9135.7 | 113580. | 9950.0 |

Sample Name: 280-45285-e-1-g msd  Acquired: 8/14/2013 17:31:12  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04893** | **35.118** | **.99472** | **.96155** | **2.0237** | **.05083** | F **2.0396** | **52.424** | **.10522** | **.49853** |
| Stddev | .00036 | .176 | .00273 | .00106 | .0020 | .00031 | .0037 | .285 | .00004 | .00074 |
| %RSD | .74546 | .49983 | .27465 | .11052 | .09957 | .61776 | .17925 | .54453 | .03445 | .14893 |
| #1 | .04867 | 34.993 | .99279 | .96230 | 2.0223 | .05061 | 2.0370 | 52.222 | .10524 | .49905 |
| #2 | .04919 | 35.242 | .99665 | .96080 | 2.0251 | .05105 | 2.0422 | 52.626 | .10519 | .49800 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21302** | **.26982** | **14.848** | **54.288** | **1.0072** | **49.938** | **1.0360** | **.94320** | **51.892** | **.49327** |
| Stddev | .00053 | .00084 | .109 | .240 | .0018 | .090 | .0006 | .00138 | .308 | .00015 |
| %RSD | .24982 | .30999 | .73333 | .44217 | .17970 | .18052 | .06091 | .14667 | .59346 | .02985 |
| #1 | .21264 | .26923 | 14.771 | 54.118 | 1.0059 | 49.875 | 1.0355 | .94417 | 51.674 | .49337 |
| #2 | .21339 | .27041 | 14.925 | 54.458 | 1.0085 | 50.002 | 1.0364 | .94222 | 52.110 | .49316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.9287** | **.50254** | **.84255** | **.46880** | **1.9417** | **46.596** | **99.716** | **1.8741** | **1.0256** | **.96692** |
| Stddev | .0063 | .00157 | .00525 | .00536 | .0046 | .171 | .366 | .0043 | .0022 | .00056 |
| %RSD | .06345 | .31279 | .62341 | 1.1437 | .23887 | .36731 | .36731 | .23205 | .21915 | .05773 |
| #1 | 9.9332 | .50365 | .84627 | .47259 | 1.9450 | 46.475 | 99.457 | 1.8772 | 1.0240 | .96652 |
| #2 | 9.9242 | .50142 | .83884 | .46501 | 1.9384 | 46.717 | 99.975 | 1.8710 | 1.0272 | .96731 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6162** | **1.9503** | **2.0432** | **.54034** | **.53198** | **.49976** |
| Stddev | .0012 | .0090 | .0222 | .00010 | .00007 | .00131 |
| %RSD | .07493 | .46181 | 1.0877 | .01811 | .01282 | .26307 |
| #1 | 1.6171 | 1.9567 | 2.0589 | .54027 | .53193 | .50069 |
| #2 | 1.6154 | 1.9439 | 2.0275 | .54040 | .53202 | .49883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9141.4** | **114150.** | **9901.8** |
| Stddev | 28.7 | 395. | 111.8 |
| %RSD | .31375 | .34644 | 1.1291 |
| #1 | 9161.7 | 113870. | 9980.8 |
| #2 | 9121.1 | 114430. | 9822.7 |

Sample Name: 280-45285-e-2-c  Acquired: 8/14/2013 17:33:18  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00025** | k **38.617** | k **.00475** | **.01595** | **.27419** | k **.00130** | k **-.03546** | **6.3586** | k **.00039** | k **.02242** |
| Stddev | .00012 | .023 | .00126 | .00044 | .00069 | .00001 | .00307 | .0117 | .00002 | .00006 |
| %RSD | 50.483 | .05995 | 26.435 | 2.7815 | .25185 | .53369 | 8.6468 | .18398 | 4.0979 | .26246 |
| #1 | k -.00016 | k 38.601 | k .00386 | .01563 | .27370 | k .00131 | k -.03329 | 6.3504 | k .00040 | k .02247 |
| #2 | k -.00033 | k 38.634 | k .00564 | .01626 | .27467 | k .00130 | k -.03762 | 6.3669 | k .00037 | k .02238 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.04170** | k **.02449** | k **40.120** | **9.3872** | k **.02141** | k **6.8670** | k **1.2462** | k **.00134** | **2.6584** | k **.01775** |
| Stddev | .00008 | .00013 | .254 | .0092 | .00221 | .0028 | .0005 | .00021 | .0107 | .00000 |
| %RSD | .19350 | .53592 | .63312 | .09850 | 10.332 | .04117 | .04046 | 15.931 | .40398 | .00452 |
| #1 | k .04164 | k .02440 | k 39.940 | 9.3937 | k .02298 | k 6.8650 | k 1.2466 | k .00119 | 2.6660 | k .01775 |
| #2 | k .04176 | k .02459 | k 40.299 | 9.3806 | k .01985 | k 6.8690 | k 1.2459 | k .00149 | 2.6508 | k .01776 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.67604** | k **.02664** | k **1.0906** | k **.00423** | k **.00905** | k **38.241** | k **81.836** | k **-.00154** | **.04909** | k **.04705** |
| Stddev | .00160 | .00084 | .0023 | .00049 | .00157 | .019 | .041 | .00048 | .00027 | .00098 |
| %RSD | .23645 | 3.1624 | .21217 | 11.498 | 17.373 | .04968 | .04968 | 30.952 | .54179 | 2.0780 |
| #1 | k .67717 | k .02604 | k 1.0889 | k .00457 | k .01017 | k 38.228 | k 81.807 | k -.00120 | .04890 | k .04636 |
| #2 | k .67491 | k .02723 | k 1.0922 | k .00388 | k .00794 | k 38.255 | k 81.865 | k -.00188 | .04928 | k .04774 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **2.6139** | k **-.00288** | kW **-.06157** | k **.08071** | k **.10294** | k **-.00088** |
| Stddev | .0036 | .00044 | .03368 | .00017 | .00010 | .00082 |
| %RSD | .13672 | 15.421 | 54.710 | .20472 | .09371 | 93.149 |
| #1 | k 2.6114 | k -.00319 | k -.08539 | k .08059 | k .10301 | k -.00145 |
| #2 | k 2.6165 | k -.00256 | k -.03775 | k .08083 | k .10287 | k -.00030 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9528.5** | **119550.** | **10188.** |
| Stddev | 9.8 | 267. | 16. |
| %RSD | .10318 | .22306 | .16077 |
| #1 | 9535.5 | 119740. | 10200. |
| #2 | 9521.6 | 119360. | 10176. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 17:35:31 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **50.446** | **.00449** | **.00462** | **.00072** | **-.00008** | **1.0039** | **-.00668** | **-.00007** | **.00050** | **-.00008** | **.00279** | **49.352** |
| Stddev | .00036 | .510 | .00327 | .00013 | .00017 | .00000 | .0027 | .00176 | .00013 | .00004 | .00007 | .00053 | .500 |
| %RSD | 388.47 | 1.0114 | 72.926 | 2.9009 | 23.653 | .59497 | .26809 | 26.276 | 190.88 | 7.9296 | 95.534 | 19.146 | 1.0135 |
| #1 | -.00016 | 50.085 | .00680 | .00453 | .00084 | -.00008 | 1.0020 | -.00544 | .00002 | .00053 | -.00013 | .00317 | 48.998 |
| #2 | .00034 | 50.806 | .00217 | .00471 | .00060 | -.00008 | 1.0058 | -.00793 | -.00016 | .00047 | -.00002 | .00241 | 49.705 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18506** | **-.00068** | **-.01266** | **-.00006** | **.00002** | **249.47** | **.00068** | **.00367** | **.00129** | **5.0620** | **.00258** | **.00096** | **.00657** |
| Stddev | .01000 | .00327 | .00006 | .00009 | .00005 | 2.26 | .00000 | .00084 | .00063 | .0196 | .00169 | .00487 | .01610 |
| %RSD | 5.4030 | 484.15 | .44545 | 139.61 | 206.03 | .90410 | .41105 | 22.991 | 48.588 | .38790 | 65.561 | 506.15 | 245.01 |
| #1 | .17799 | -.00299 | -.01270 | .00000 | .00006 | 247.88 | .00068 | .00308 | .00174 | 5.0481 | .00139 | .00441 | .01795 |
| #2 | .19213 | .00164 | -.01262 | -.00013 | -.00001 | 251.07 | .00068 | .00427 | .00085 | 5.0759 | .00378 | -.00248 | -.00481 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01406** | **.00025** | **.00035** | **4.9237** | **-.00037** | **-.00037** | **10.082** | **.00168** | **.00030** | **.02701** |
| Stddev | .03444 | .00020 | .00008 | .0211 | .00010 | .00083 | .035 | .00014 | .00009 | .00193 |
| %RSD | 245.01 | 79.794 | 24.126 | .42846 | 26.776 | 224.45 | .34720 | 8.5480 | 31.754 | 7.1638 |
| #1 | .03841 | .00011 | .00041 | 4.9386 | -.00044 | -.00095 | 10.107 | .00158 | .00023 | .02564 |
| #2 | -.01030 | .00039 | .00029 | 4.9088 | -.00030 | .00022 | 10.058 | .00178 | .00036 | .02838 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8855.9** | **110140.** | **9496.0** |
| Stddev | 8.0 | 294. | 91.1 |
| %RSD | .09065 | .26650 | .95910 |
| #1 | 8850.2 | 109940. | 9560.4 |
| #2 | 8861.5 | 110350. | 9431.6 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 17:37:51 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49986** | **.52319** | **.98357** | **.49995** | **.48316** | **.49703** | **.00112** | **4.9931** | **.50373** | **.50977** | **.49631** | **.50892** | **2.5135** |
| Stddev | .00060 | .00259 | .00140 | .00030 | .00281 | .00210 | .00088 | .0355 | .00024 | .00008 | .00052 | .00101 | .0152 |
| %RSD | .11921 | .49412 | .14268 | .05980 | .58082 | .42301 | 78.373 | .71117 | .04821 | .01486 | .10448 | .19919 | .60286 |
| #1 | .49943 | .52502 | .98457 | .49974 | .48117 | .49554 | .00175 | 4.9680 | .50356 | .50972 | .49594 | .50963 | 2.5028 |
| #2 | .50028 | .52136 | .98258 | .50016 | .48514 | .49851 | .00050 | 5.0182 | .50390 | .50983 | .49667 | .50820 | 2.5242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.928** | **.99380** | **19.572** | **.50604** | **.49312** | **5.2319** | **.50189** | **.98006** | **1.0163** | **.00450** | **1.0177** | **.99359** | **4.9359** |
| Stddev | .232 | .00356 | .025 | .00069 | .00002 | .0295 | .00076 | .00526 | .0014 | .00112 | .0023 | .00236 | .0398 |
| %RSD | .46488 | .35860 | .12797 | .13727 | .00438 | .56406 | .15170 | .53694 | .14068 | 24.954 | .23006 | .23704 | .80693 |
| #1 | 49.764 | .99128 | 19.590 | .50653 | .49314 | 5.2110 | .50135 | .97634 | 1.0153 | .00371 | 1.0161 | .99193 | 4.9078 |
| #2 | 50.092 | .99632 | 19.554 | .50555 | .49311 | 5.2527 | .50242 | .98378 | 1.0173 | .00530 | 1.0194 | .99526 | 4.9641 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.563** | **.98995** | **.50075** | **-.00526** | **.50892** | **1.0323** | **.02887** | **.50182** | **.49392** | **.50583** |
| Stddev | .085 | .00253 | .00242 | .00058 | .00075 | .0013 | .01234 | .00029 | .00084 | .00485 |
| %RSD | .80693 | .25607 | .48368 | 11.102 | .14642 | .12920 | 42.742 | .05806 | .17093 | .95876 |
| #1 | 10.503 | .98816 | .49903 | -.00485 | .50944 | 1.0313 | .03760 | .50161 | .49451 | .50240 |
| #2 | 10.623 | .99174 | .50246 | -.00567 | .50839 | 1.0332 | .02015 | .50202 | .49332 | .50926 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9059.5** | **114240.** | **9605.5** |
| Stddev | 8.9 | 189. | 40.5 |
| %RSD | .09831 | .16549 | .42131 |
| #1 | 9053.2 | 114100. | 9634.1 |
| #2 | 9065.8 | 114370. | 9576.9 |

Sample Name: CCB Acquired: 8/14/2013 17:39:58 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00088** | **.00238** | **.00327** | **.00007** | **.00000** | **.00070** | **-.00225** | **-.00007** | **.00021** | **-.00005** |
| Stddev | .00050 | .00028 | .00325 | .00008 | .00023 | .0000 | .00131 | .00095 | .00008 | .00010 | .00007 |
| %RSD | 131.20 | 32.193 | 136.60 | 2.5272 | 315.35 | 1734.0 | 187.71 | 41.960 | 116.55 | 46.638 | 125.05 |
| #1 | .00073 | .00108 | .00008 | .00321 | .00024 | -.00002 | -.00023 | -.00159 | -.00013 | .00028 | -.00010 |
| #2 | .00003 | .00068 | .00468 | .00333 | -.00009 | .00001 | .00162 | -.00292 | -.00001 | .00014 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **.00176** | **.13350** | **-.00010** | **.00223** | **.00010** | **.00069** | **.06682** | **.00007** | **.00060** | **.00001** |
| Stddev | .00004 | .00104 | .01984 | .00106 | .00259 | .00003 | .00002 | .00975 | .00008 | .00060 | .00013 |
| %RSD | 4.6421 | 58.922 | 14.861 | 1025.0 | 116.15 | 36.626 | 2.3450 | 14.598 | 120.00 | 98.980 | 1985.1 |
| #1 | -.00093 | .00103 | .11947 | -.00086 | .00040 | .00012 | .00070 | .07371 | .00012 | .00018 | .00010 |
| #2 | -.00087 | .00249 | .14753 | .00065 | .00405 | .00007 | .00068 | .05992 | .00001 | .00103 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00242** | **.00193** | **.00315** | **-.00360** | **-.00771** | **.00023** | **.00008** | **.00135** | **.00012** | **-.00008** | **-.00202** |
| Stddev | .00161 | .00086 | .00052 | .00149 | .00320 | .00006 | .00014 | .00113 | .00041 | .00101 | .01549 |
| %RSD | 66.669 | 44.597 | 16.516 | 41.463 | 41.463 | 25.717 | 171.83 | 83.603 | 339.31 | 1234.5 | 764.92 |
| #1 | .00128 | .00254 | .00278 | -.00466 | -.00997 | .00027 | -.00002 | .00215 | .00041 | -.00079 | -.01298 |
| #2 | .00356 | .00132 | .00351 | -.00255 | -.00545 | .00019 | .00018 | .00055 | -.00017 | .00063 | .00893 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00046** | **.00157** | W **-.00334** |
| Stddev | .00051 | .00036 | .00050 |
| %RSD | 110.18 | 22.775 | 15.022 |
| #1 | .00082 | .00183 | -.00370 |
| #2 | .00010 | .00132 | -.00299 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9186.3** | **117190.** | **9628.7** |
| Stddev | 1.4 | 48. | 72.0 |
| %RSD | .01500 | .04062 | .74748 |
| #1 | 9187.3 | 117160. | 9679.6 |
| #2 | 9185.3 | 117230. | 9577.8 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 17:42:12 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00998** | **.10931** | **.01616** | **.09606** | **.00992** | **.00097** | **.10997** | **.20606** | **.00489** | **.01087** | **.01039** | **.01525** | **.10691** | **3.2052** |
| Stddev | .00017 | .00070 | .00010 | .00124 | .00023 | .00000 | .00057 | .00589 | .00035 | .00007 | .00015 | .00005 | .00036 | .0009 |
| %RSD | 1.6730 | .64225 | .62238 | 1.2896 | 2.3019 | .21095 | .51408 | 2.8584 | 7.0614 | .60800 | 1.4805 | .34298 | .33434 | .02789 |
| #1 | .01010 | .10981 | .01623 | .09694 | .00976 | .00098 | .11037 | .20190 | .00464 | .01082 | .01050 | .01528 | .10716 | 3.2046 |
| #2 | .00986 | .10881 | .01608 | .09519 | .01008 | .00097 | .10957 | .21023 | .00513 | .01091 | .01029 | .01521 | .10666 | 3.2058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01057** | **.20123** | **.01041** | **.01976** | **1.1296** | **.04187** | **2.8164** | **.00880** | **.00622** | **.01069** | **.01619** | **.49638** | **1.0623** | **.10156** |
| Stddev | .00279 | .00077 | .00008 | .00033 | .0097 | .00039 | .0200 | .00075 | .00050 | .00072 | .00004 | .02443 | .0523 | .00096 |
| %RSD | 26.417 | .38421 | .72839 | 1.6451 | .85625 | .92870 | .71096 | 8.5703 | 8.0357 | 6.6987 | .26079 | 4.9212 | 4.9212 | .94740 |
| #1 | .00860 | .20068 | .01047 | .01999 | 1.1227 | .04215 | 2.8306 | .00827 | .00658 | .01018 | .01622 | .47911 | 1.0253 | .10224 |
| #2 | .01255 | .20177 | .01036 | .01953 | 1.1364 | .04160 | 2.8022 | .00934 | .00587 | .01119 | .01616 | .51365 | 1.0992 | .10088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01034** | **.01335** | **.01008** | **.01545** | **.07531** | **.01080** | **.02111** | **.01352** |
| Stddev | .00015 | .00228 | .00034 | .00007 | .03789 | .00009 | .00005 | .00072 |
| %RSD | 1.4592 | 17.059 | 3.3459 | .47654 | 50.309 | .81632 | .24294 | 5.3234 |
| #1 | .01023 | .01497 | .00984 | .01540 | .04852 | .01074 | .02115 | .01403 |
| #2 | .01045 | .01174 | .01032 | .01550 | .10210 | .01087 | .02107 | .01301 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9069.2** | **116690.** | **9618.0** |
| Stddev | 52.7 | 216. | 17.3 |
| %RSD | .58139 | .18536 | .17944 |
| #1 | 9031.9 | 116540. | 9630.2 |
| #2 | 9106.5 | 116840. | 9605.8 |

Sample Name: 280-45284-h-1-c  Acquired: 8/14/2013 17:44:29  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **3.3234** | **.00518** | **.01986** | **.04001** | **.00008** | **.00021** | **5.3948** | **.00008** | **.00245** |
| Stddev | .00061 | .0151 | .00232 | .00045 | .00030 | .00007 | .00057 | .0328 | .00015 | .00000 |
| %RSD | 711.62 | .45501 | 44.782 | 2.2671 | .76209 | 80.688 | 267.76 | .60808 | 193.47 | .17715 |
| #1 | .00052 | 3.3127 | .00354 | .02018 | .03980 | .00013 | .00062 | 5.3716 | -.00003 | .00244 |
| #2 | -.00035 | 3.3341 | .00682 | .01955 | .04023 | .00004 | -.00019 | 5.4180 | .00018 | .00245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00595** | **.00961** | **5.2140** | **2.8260** | **.00226** | **1.3115** | **.22653** | **.00059** | **2.0178** | **.00245** |
| Stddev | .00012 | .00028 | .0462 | .0826 | .00112 | .0057 | .00099 | .00002 | .0232 | .00003 |
| %RSD | 2.0681 | 2.9182 | .88534 | 2.9239 | 49.403 | .43264 | .43907 | 2.7207 | 1.1500 | 1.3587 |
| #1 | .00586 | .00941 | 5.1813 | 2.7675 | .00147 | 1.3075 | .22583 | .00060 | 2.0014 | .00247 |
| #2 | .00604 | .00981 | 5.2466 | 2.8844 | .00305 | 1.3155 | .22724 | .00057 | 2.0342 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17301** | **.00677** | **.92249** | **.00076** | **.00447** | **5.5285** | **11.831** | **.00044** | **.02559** | **.00054** |
| Stddev | .00055 | .00138 | .00465 | .00043 | .00009 | .0016 | .003 | .00001 | .00040 | .00003 |
| %RSD | .32060 | 20.445 | .50362 | 56.223 | 2.0606 | .02822 | .02822 | 1.6893 | 1.5770 | 5.8073 |
| #1 | .17262 | .00579 | .91920 | .00046 | .00441 | 5.5274 | 11.829 | .00043 | .02530 | .00056 |
| #2 | .17340 | .00775 | .92577 | .00106 | .00454 | 5.5296 | 11.833 | .00044 | .02587 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19857** | **-.00134** | **-.01596** | **.01331** | **.05293** | **-.00128** |
| Stddev | .00368 | .00037 | .01412 | .00045 | .00010 | .00039 |
| %RSD | 1.8510 | 27.312 | 88.461 | 3.3684 | .18069 | 30.636 |
| #1 | .19597 | -.00160 | -.02595 | .01363 | .05286 | -.00156 |
| #2 | .20117 | -.00108 | -.00598 | .01300 | .05300 | -.00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9297.9** | **118490.** | **9819.0** |
| Stddev | 55.0 | 137. | 84.5 |
| %RSD | .59156 | .11556 | .86069 |
| #1 | 9336.8 | 118400. | 9878.7 |
| #2 | 9259.0 | 118590. | 9759.2 |

Sample Name: 280-45317-c-1-e  Acquired: 8/14/2013 17:46:47  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **7.8077** | **-.00069** | **.00759** | **.03473** | **.00031** | **-.00151** | **340.79** | **.00213** | **.00901** |
| Stddev | .00058 | .0159 | .00207 | .00022 | .00011 | .00001 | .00119 | 1.39 | .00011 | .00007 |
| %RSD | 123.18 | .20355 | 298.02 | 2.9128 | .30649 | 1.6158 | 78.584 | .40744 | 5.1949 | .75048 |
| #1 | -.00006 | 7.7965 | -.00216 | .00775 | .03466 | .00032 | -.00067 | 339.81 | .00205 | .00897 |
| #2 | -.00088 | 7.8189 | .00077 | .00744 | .03481 | .00031 | -.00236 | 341.77 | .00221 | .00906 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.23757** | **1.1400** | **6.5233** | **.01333** | **13.127** | **.98534** | **.00139** | **40.533** | **.01225** |
| Stddev | .00014 | .00037 | .0019 | .0487 | .00346 | .029 | .00096 | .00012 | .222 | .00006 |
| %RSD | 38.234 | .15448 | .16537 | .74712 | 25.976 | .22204 | .09708 | 8.7149 | .54891 | .51999 |
| #1 | .00026 | .23783 | 1.1413 | 6.5577 | .01088 | 13.106 | .98602 | .00147 | 40.375 | .01229 |
| #2 | .00045 | .23731 | 1.1386 | 6.4888 | .01578 | 13.148 | .98467 | .00130 | 40.690 | .01220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01581** | **-.00061** | F **302.05** | **.00236** | **.00156** | **3.4239** | **7.3272** | **.00028** | **.79481** | **-.00095** |
| Stddev | .00057 | .00093 | .15 | .00122 | .00211 | .0279 | .0596 | .00046 | .00203 | .00068 |
| %RSD | 3.5970 | 152.99 | .05015 | 51.921 | 135.21 | .81387 | .81387 | 167.77 | .25564 | 71.340 |
| #1 | .01541 | .00005 | 302.15 | .00322 | .00305 | 3.4042 | 7.2850 | -.00005 | .79337 | -.00047 |
| #2 | .01621 | -.00126 | 301.94 | .00149 | .00007 | 3.4436 | 7.3694 | .00060 | .79624 | -.00143 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **-.00003** | **-.00965** | **.00191** | **.30073** | **-.00054** |
| Stddev | .00046 | .00024 | .04583 | .00042 | .00063 | .00165 |
| %RSD | 46.771 | 804.29 | 474.85 | 22.004 | .20821 | 302.95 |
| #1 | .00066 | -.00020 | -.04206 | .00162 | .30028 | .00062 |
| #2 | .00131 | .00014 | .02275 | .00221 | .30117 | -.00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8730.7** | **110110.** | **9624.9** |
| Stddev | 2.2 | 2. | 62.0 |
| %RSD | .02533 | .00197 | .64455 |
| #1 | 8729.2 | 110110. | 9668.8 |
| #2 | 8732.3 | 110110. | 9581.0 |

Sample Name: 280-45317-c-2-c  Acquired: 8/14/2013 17:49:09  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00089** | **6.3673** | **-.00297** | **.00886** | **.03281** | **-.00001** | **-.00204** | **477.14** | **.00082** | **.00166** |
| Stddev | .00037 | .0226 | .00246 | .00017 | .00006 | .00007 | .00140 | .23 | .00002 | .00002 |
| %RSD | 41.213 | .35433 | 82.866 | 1.8750 | .17783 | 650.51 | 68.482 | .04870 | 2.8956 | 1.2854 |
| #1 | -.00063 | 6.3514 | -.00471 | .00897 | .03276 | .00004 | -.00303 | 476.98 | .00080 | .00168 |
| #2 | -.00114 | 6.3833 | -.00123 | .00874 | .03285 | -.00006 | -.00105 | 477.30 | .00083 | .00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.06272** | **.20299** | **8.6949** | **.02138** | **14.837** | **.56681** | **.00249** | **57.911** | **.00197** |
| Stddev | .00005 | .00016 | .00629 | .1013 | .00519 | .035 | .00133 | .00006 | .266 | .00007 |
| %RSD | 9.0171 | .25545 | 3.0983 | 1.1653 | 24.302 | .23391 | .23541 | 2.5689 | .45902 | 3.5571 |
| #1 | .00054 | .06261 | .19855 | 8.6232 | .01770 | 14.812 | .56586 | .00253 | 57.723 | .00202 |
| #2 | .00047 | .06284 | .20744 | 8.7665 | .02505 | 14.861 | .56775 | .00244 | 58.099 | .00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00787** | **-.00053** | F **416.23** | **.00623** | **-.00053** | **.24223** | **.51836** | **-.00022** | **1.0139** | **-.00038** |
| Stddev | .00055 | .00052 | .36 | .00196 | .00249 | .01340 | .02868 | .00005 | .0028 | .00119 |
| %RSD | 7.0389 | 99.934 | .08727 | 31.492 | 473.75 | 5.5334 | 5.5334 | 22.756 | .27265 | 311.69 |
| #1 | .00748 | -.00090 | 416.48 | .00762 | -.00228 | .25170 | .53865 | -.00019 | 1.0120 | .00046 |
| #2 | .00827 | -.00015 | 415.97 | .00484 | .00123 | .23275 | .49808 | -.00026 | 1.0159 | -.00122 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00224** | **-.03018** | **.00141** | **.02983** | **-.00048** |
| Stddev | .00002 | .00034 | .02569 | .00004 | .00005 | .00079 |
| %RSD | 3.0191 | 15.317 | 85.104 | 2.8768 | .16725 | 164.15 |
| #1 | .00058 | .00248 | -.01202 | .00144 | .02979 | -.00105 |
| #2 | .00060 | .00200 | -.04834 | .00138 | .02986 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8594.4** | **107720.** | **9620.1** |
| Stddev | 4.6 | 524. | 15.2 |
| %RSD | .05357 | .48619 | .15822 |
| #1 | 8597.7 | 108090. | 9609.3 |
| #2 | 8591.2 | 107350. | 9630.9 |

Sample Name: 280-45317-c-3-c  Acquired: 8/14/2013 17:51:32  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00131** | **58.885** | **.02770** | **.00612** | **.01723** | **.01178** | **.00232** | **230.90** | **.06827** | **.25051** |
| Stddev | .00041 | .645 | .00377 | .00048 | .00013 | .00006 | .00315 | .69 | .00008 | .00041 |
| %RSD | 31.341 | 1.0958 | 13.613 | 7.8312 | .74482 | .51728 | 135.72 | .30016 | .11154 | .16414 |
| #1 | -.00160 | 58.428 | .03036 | .00646 | .01714 | .01173 | .00454 | 231.39 | .06832 | .25080 |
| #2 | -.00102 | 59.341 | .02503 | .00579 | .01732 | .01182 | .00009 | 230.41 | .06821 | .25022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00633** | W **15.150** | **51.433** | **8.0252** | **.02130** | **34.716** | W **13.611** | **-.00078** | **58.268** | **.28176** |
| Stddev | .00005 | .203 | .774 | .0515 | .00149 | .010 | .039 | .00008 | .265 | .00027 |
| %RSD | .74976 | 1.3400 | 1.5051 | .64133 | 6.9735 | .03020 | .28374 | 9.7731 | .45510 | .09607 |
| #1 | .00636 | 15.293 | 50.886 | 7.9888 | .02025 | 34.724 | 13.583 | -.00083 | 58.080 | .28195 |
| #2 | .00629 | 15.006 | 51.981 | 8.0616 | .02235 | 34.709 | 13.638 | -.00072 | 58.455 | .28157 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | 10.000 | | | |
| Low Limit | | -.01000 | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10844** | **.07491** | F **400.05** | **.00036** | **.00374** | **18.219** | **38.989** | **.00045** | **.81113** | **.00093** |
| Stddev | .00079 | .00139 | .67 | .00096 | .00250 | .212 | .454 | .00046 | .00921 | .00057 |
| %RSD | .72643 | 1.8540 | .16663 | 270.05 | 66.914 | 1.1648 | 1.1648 | 103.44 | 1.1358 | 61.547 |
| #1 | .10788 | .07589 | 400.52 | .00104 | .00550 | 18.069 | 38.668 | .00078 | .80462 | .00053 |
| #2 | .10899 | .07392 | 399.57 | -.00032 | .00197 | 18.369 | 39.310 | .00012 | .81765 | .00134 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00079** | **.00079** | F **-.16996** | **.01366** | **7.2537** | **.00123** |
| Stddev | .00011 | .00075 | .01454 | .00006 | .0021 | .00045 |
| %RSD | 14.100 | 95.756 | 8.5556 | .47245 | .02947 | 36.397 |
| #1 | .00087 | .00132 | -.18024 | .01370 | 7.2552 | .00155 |
| #2 | .00071 | .00025 | -.15968 | .01361 | 7.2522 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9439.4** | **117380.** | **10308.** |
| Stddev | 6.9 | 190. | 63. |
| %RSD | .07292 | .16224 | .61305 |
| #1 | 9434.6 | 117240. | 10353. |
| #2 | 9444.3 | 117510. | 10263. |

Sample Name: 280-45291-e-1-c  Acquired: 8/14/2013 17:54:04  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.05716** | **.00288** | **.14490** | **.07184** | **-.00003** | **-.00312** | **44.808** | **.00036** | **.00133** |
| Stddev | .00060 | .00035 | .00138 | .00037 | .00014 | .00004 | .00012 | .205 | .00000 | .00003 |
| %RSD | 2011.6 | .61683 | 47.872 | .25643 | .20103 | 160.25 | 3.7601 | .45758 | .47953 | 1.9023 |
| #1 | .00039 | .05740 | .00190 | .14516 | .07174 | .00000 | -.00320 | 44.663 | .00036 | .00135 |
| #2 | -.00045 | .05691 | .00385 | .14463 | .07194 | -.00006 | -.00304 | 44.953 | .00037 | .00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.00562** | **.47371** | **47.593** | **.02072** | **20.291** | **.17971** | **.00198** | **87.813** | **.00498** |
| Stddev | .00008 | .00020 | .00506 | .092 | .00324 | .209 | .00212 | .00000 | .895 | .00052 |
| %RSD | 10.811 | 3.6385 | 1.0678 | .19247 | 15.644 | 1.0281 | 1.1805 | .02869 | 1.0191 | 10.417 |
| #1 | .00064 | .00577 | .47013 | 47.528 | .02301 | 20.144 | .17821 | .00198 | 87.180 | .00535 |
| #2 | .00075 | .00548 | .47729 | 47.658 | .01843 | 20.439 | .18121 | .00198 | 88.445 | .00462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.0014** | **-.00061** | **22.211** | **-.00128** | **-.00095** | **4.1239** | **8.8252** | **.00016** | **.28459** | **-.00234** |
| Stddev | .0039 | .00088 | .015 | .00181 | .00096 | .0231 | .0495 | .00077 | .00142 | .00171 |
| %RSD | .19498 | 143.53 | .06695 | 141.55 | 100.60 | .56112 | .56112 | 476.45 | .49885 | 72.985 |
| #1 | 1.9986 | .00001 | 22.221 | .00000 | -.00163 | 4.1076 | 8.7902 | .00071 | .28359 | -.00355 |
| #2 | 2.0042 | -.00123 | 22.200 | -.00256 | -.00027 | 4.1403 | 8.8602 | -.00038 | .28559 | -.00113 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **-.00080** | **.00021** | **.00212** | **.02314** | **-.00021** |
| Stddev | .00028 | .00038 | .00007 | .00052 | .00002 | .00286 |
| %RSD | 48.926 | 47.674 | 32.148 | 24.751 | .09185 | 1381.9 |
| #1 | .00038 | -.00053 | .00016 | .00249 | .02312 | .00181 |
| #2 | .00078 | -.00107 | .00025 | .00174 | .02315 | -.00223 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8711.1** | **108100.** | **9360.3** |
| Stddev | .3 | 458. | 62.4 |
| %RSD | .00382 | .42398 | .66688 |
| #1 | 8710.8 | 108420. | 9316.2 |
| #2 | 8711.3 | 107770. | 9404.5 |

Sample Name: 280-45289-b-1-b  Acquired: 8/14/2013 17:56:22  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **19.388** | **.00315** | **.90612** | **.03023** | **-.00002** | **-.00224** | **89.297** | **.00020** | **.00059** |
| Stddev | .00024 | .094 | .00148 | .00223 | .00004 | .00002 | .00101 | .523 | .00009 | .00010 |
| %RSD | 123.21 | .48711 | 47.082 | .24627 | .12282 | 81.783 | 45.041 | .58525 | 42.616 | 17.148 |
| #1 | -.00003 | 19.321 | .00420 | .90454 | .03020 | -.00003 | -.00153 | 88.927 | .00014 | .00052 |
| #2 | -.00037 | 19.454 | .00210 | .90770 | .03025 | -.00001 | -.00296 | 89.666 | .00026 | .00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02767** | **.01823** | **.34388** | **2.5057** | **.01342** | **5.7799** | **.10888** | **.01603** | **25.411** | **.02054** |
| Stddev | .00011 | .00023 | .00738 | .0601 | .00136 | .0118 | .00035 | .00017 | .435 | .00022 |
| %RSD | .39983 | 1.2507 | 2.1451 | 2.4002 | 10.142 | .20429 | .31690 | 1.0678 | 1.7120 | 1.0593 |
| #1 | .02759 | .01807 | .33867 | 2.5483 | .01246 | 5.7882 | .10863 | .01615 | 25.103 | .02039 |
| #2 | .02775 | .01839 | .34910 | 2.4632 | .01438 | 5.7715 | .10912 | .01591 | 25.719 | .02070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07597** | **.00146** | **70.974** | **.00127** | **.00307** | **.79215** | **1.6952** | **-.00040** | **.24109** | **-.00086** |
| Stddev | .00100 | .00013 | .050 | .00075 | .00118 | .01215 | .0260 | .00044 | .00136 | .00129 |
| %RSD | 1.3124 | 8.9117 | .07037 | 59.196 | 38.460 | 1.5340 | 1.5340 | 109.42 | .56443 | 150.49 |
| #1 | .07526 | .00137 | 70.939 | .00180 | .00224 | .78356 | 1.6768 | -.00071 | .24013 | .00005 |
| #2 | .07667 | .00155 | 71.010 | .00074 | .00391 | .80074 | 1.7136 | -.00009 | .24205 | -.00177 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **-.00057** | **.01266** | **.00260** | **.01603** | **-.00156** |
| Stddev | .00005 | .00057 | .01908 | .00060 | .00019 | .00036 |
| %RSD | 3.6610 | 100.61 | 150.75 | 22.957 | 1.1874 | 22.897 |
| #1 | .00136 | -.00016 | -.00083 | .00218 | .01617 | -.00131 |
| #2 | .00143 | -.00097 | .02615 | .00303 | .01590 | -.00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8974.3** | **113750.** | **9668.4** |
| Stddev | 17.5 | 481. | 26.3 |
| %RSD | .19480 | .42311 | .27189 |
| #1 | 8961.9 | 113410. | 9687.0 |
| #2 | 8986.7 | 114090. | 9649.8 |

Sample Name: 280-45350-a-1-b  Acquired: 8/14/2013 17:58:37  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187020 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00210** | **.09996** | **.00360** | **.08974** | **1.1006** | **.00001** | **-.00197** | **28.214** | **.00037** | **.00150** |
| Stddev | .00014 | .00040 | .00091 | .00057 | .0022 | .00001 | .00189 | .058 | .00000 | .00017 |
| %RSD | 6.8000 | .39970 | 25.268 | .63955 | .19815 | 186.32 | 95.898 | .20533 | 1.2054 | 11.369 |
| #1 | .00200 | .09968 | .00425 | .09015 | 1.0991 | .00000 | -.00063 | 28.173 | .00036 | .00162 |
| #2 | .00220 | .10024 | .00296 | .08933 | 1.1022 | .00002 | -.00331 | 28.255 | .00037 | .00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00240** | **.25893** | **.71622** | **24.338** | **.01323** | **7.3755** | **.28708** | **.00225** | **212.71** | **.21638** |
| Stddev | .00000 | .00082 | .00685 | .047 | .00069 | .0047 | .00036 | .00016 | .09 | .00045 |
| %RSD | .18342 | .31662 | .95603 | .19137 | 5.2447 | .06355 | .12580 | 7.0682 | .04127 | .20838 |
| #1 | .00240 | .25951 | .71138 | 24.305 | .01274 | 7.3789 | .28682 | .00213 | 212.65 | .21606 |
| #2 | .00240 | .25835 | .72106 | 24.371 | .01372 | 7.3722 | .28733 | .00236 | 212.77 | .21670 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75854** | **.01033** | **133.38** | **.00074** | **.00248** | **2.2759** | **4.8705** | **.19216** | **.26871** | **-.00244** |
| Stddev | .00186 | .00068 | .04 | .00044 | .00062 | .0164 | .0351 | .00143 | .00085 | .00019 |
| %RSD | .24510 | 6.5451 | .02716 | 59.759 | 25.014 | .72131 | .72131 | .74581 | .31801 | 7.9046 |
| #1 | .75986 | .00985 | 133.35 | .00043 | .00205 | 2.2875 | 4.8953 | .19115 | .26811 | -.00257 |
| #2 | .75723 | .01081 | 133.40 | .00106 | .00292 | 2.2643 | 4.8456 | .19318 | .26931 | -.00230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **-.00113** | **.01079** | **.00104** | **.03965** | **-.00130** |
| Stddev | .00009 | .00027 | .01429 | .00009 | .00041 | .00062 |
| %RSD | 8.4981 | 24.024 | 132.42 | 8.6336 | 1.0220 | 48.035 |
| #1 | .00114 | -.00132 | .00069 | .00098 | .03937 | -.00174 |
| #2 | .00101 | -.00094 | .02090 | .00111 | .03994 | -.00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8840.1** | **110660.** | **9726.9** |
| Stddev | 7.8 | 21. | 55.0 |
| %RSD | .08800 | .01873 | .56511 |
| #1 | 8834.6 | 110650. | 9688.1 |
| #2 | 8845.6 | 110680. | 9765.8 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 18:01:00 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **50.532** | **.00498** | **.00366** | **.00058** | **-.00014** | **1.0073** | **-.00743** | **-.00003** | **.00033** | **-.00017** | **.00210** | **49.435** |
| Stddev | .00078 | .329 | .00283 | .00045 | .00009 | .00010 | .0001 | .00334 | .00003 | .00002 | .00011 | .00041 | .559 |
| %RSD | 110.42 | .65111 | 56.887 | 12.343 | 15.764 | 70.608 | .00737 | 45.008 | 92.983 | 5.6166 | 66.294 | 19.435 | 1.1313 |
| #1 | .00126 | 50.299 | .00698 | .00398 | .00051 | -.00007 | 1.0072 | -.00979 | -.00005 | .00034 | -.00009 | .00181 | 49.040 |
| #2 | .00016 | 50.765 | .00297 | .00334 | .00064 | -.00021 | 1.0073 | -.00506 | -.00001 | .00032 | -.00025 | .00239 | 49.831 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22194** | **.00016** | **-.01274** | **-.00005** | **-.00017** | **250.58** | **.00087** | **.00326** | **.00163** | **5.1648** | **.00219** | **-.00247** | **-.00439** |
| Stddev | .02787 | .00284 | .00407 | .00004 | .00000 | 2.55 | .00014 | .00062 | .00080 | .0241 | .00075 | .00129 | .01613 |
| %RSD | 12.556 | 1733.2 | 31.957 | 85.993 | 2.0884 | 1.0165 | 15.994 | 19.005 | 49.089 | .46687 | 34.362 | 52.227 | 366.98 |
| #1 | .24165 | -.00184 | -.01562 | -.00007 | -.00017 | 248.78 | .00077 | .00282 | .00219 | 5.1819 | .00272 | -.00338 | .00701 |
| #2 | .20224 | .00217 | -.00986 | -.00002 | -.00016 | 252.39 | .00097 | .00370 | .00106 | 5.1478 | .00165 | -.00156 | -.01580 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00940** | **.00037** | **.00050** | **4.9681** | **-.00052** | **.00021** | **10.109** | **.00158** | **.00062** | **.02473** |
| Stddev | .03451 | .00000 | .00002 | .0127 | .00044 | .00138 | .007 | .00042 | .00007 | .00401 |
| %RSD | 366.98 | 1.1630 | 4.7015 | .25603 | 83.616 | 665.87 | .06518 | 26.605 | 11.207 | 16.219 |
| #1 | .01500 | .00037 | .00048 | 4.9771 | -.00021 | -.00077 | 10.114 | .00188 | .00057 | .02189 |
| #2 | -.03381 | .00037 | .00052 | 4.9591 | -.00083 | .00119 | 10.104 | .00128 | .00067 | .02756 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8938.5** | **110260.** | **9663.1** |
| Stddev | 14.2 | 138. | 54.6 |
| %RSD | .15914 | .12496 | .56503 |
| #1 | 8928.5 | 110350. | 9701.7 |
| #2 | 8948.6 | 110160. | 9624.5 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 18:03:21 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49943** | **.52248** | **.98299** | **.49903** | **.48168** | **.49602** | **-.00050** | **4.9767** | **.50294** | **.51097** | **.49508** | **.50806** | **2.4978** |
| Stddev | .00089 | .00033 | .00189 | .00106 | .00139 | .00293 | .00202 | .0357 | .00079 | .00040 | .00025 | .00039 | .0167 |
| %RSD | .17895 | .06299 | .19212 | .21227 | .28885 | .59107 | 407.49 | .71804 | .15740 | .07924 | .05088 | .07763 | .67010 |
| #1 | .50006 | .52271 | .98165 | .49828 | .48070 | .49395 | .00093 | 4.9514 | .50238 | .51068 | .49526 | .50778 | 2.4860 |
| #2 | .49879 | .52224 | .98433 | .49978 | .48267 | .49810 | -.00193 | 5.0020 | .50349 | .51126 | .49490 | .50834 | 2.5097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.911** | **.99219** | **19.548** | **.50622** | **.49117** | **5.1847** | **.50168** | **.97964** | **1.0150** | **.04572** | **1.0229** | **.99326** | **4.9133** |
| Stddev | .146 | .00493 | .043 | .00029 | .00071 | .0097 | .00001 | .00238 | .0006 | .00159 | .0011 | .00171 | .0581 |
| %RSD | .29177 | .49722 | .21930 | .05642 | .14522 | .18765 | .00247 | .24278 | .06273 | 3.4873 | .10319 | .17205 | 1.1826 |
| #1 | 49.808 | .98871 | 19.578 | .50643 | .49066 | 5.1779 | .50167 | .97796 | 1.0145 | .04460 | 1.0222 | .99205 | 4.8723 |
| #2 | 50.014 | .99568 | 19.517 | .50602 | .49167 | 5.1916 | .50168 | .98132 | 1.0154 | .04685 | 1.0237 | .99446 | 4.9544 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.515** | **.98883** | **.50201** | **-.00283** | **.51021** | **1.0387** | **-.02802** | **.50174** | **.49163** | **.50497** |
| Stddev | .124 | .00009 | .00297 | .00013 | .00034 | .0000 | .00714 | .00040 | .00132 | .00688 |
| %RSD | 1.1826 | .00932 | .59180 | 4.4186 | .06618 | .00187 | 25.495 | .08004 | .26778 | 1.3618 |
| #1 | 10.427 | .98890 | .49991 | -.00292 | .50997 | 1.0387 | -.03308 | .50145 | .49257 | .50010 |
| #2 | 10.602 | .98877 | .50411 | -.00274 | .51045 | 1.0387 | -.02297 | .50202 | .49070 | .50983 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9135.6** | **114560.** | **9690.8** |
| Stddev | 10.7 | 66. | 3.0 |
| %RSD | .11671 | .05777 | .03120 |
| #1 | 9143.1 | 114600. | 9688.7 |
| #2 | 9128.1 | 114510. | 9693.0 |

Sample Name: CCB  Acquired: 8/14/2013 18:05:28  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.00004** | **.00158** | **.00225** | **-.00034** | **-.00001** | **-.00040** | **-.00211** | **-.00033** | **.00027** | **-.00002** | **-.00059** |
| Stddev | .00011 | .00011 | .00203 | .00010 | .00003 | .00003 | .00045 | .00108 | .00004 | .00004 | .00010 | .00034 |
| %RSD | 87.795 | 312.89 | 128.74 | 4.3129 | 8.7367 | 325.01 | 112.93 | 51.013 | 13.685 | 16.121 | 511.11 | 57.144 |
| #1 | -.00020 | .00012 | .00302 | .00232 | -.00032 | -.00003 | -.00071 | -.00287 | -.00036 | .00024 | -.00009 | -.00035 |
| #2 | -.00005 | -.00004 | .00014 | .00218 | -.00036 | .00001 | -.00008 | -.00135 | -.00030 | .00030 | .00005 | -.00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.13529** | **-.00222** | **-.00048** | **.00007** | **.00037** | **.07168** | **.00017** | **.00223** | **-.00005** | **.02918** | W **.00409** |
| Stddev | .00070 | .01031 | .00011 | .00054 | .00006 | .00006 | .00047 | .00011 | .00055 | .00020 | .00021 | .00188 |
| %RSD | 706.36 | 7.6219 | 4.8373 | 112.83 | 84.149 | 16.922 | .65023 | 62.857 | 24.744 | 385.71 | .72246 | 46.026 |
| #1 | -.00060 | .12799 | -.00230 | -.00010 | .00010 | .00033 | .07135 | .00025 | .00262 | -.00019 | .02904 | .00276 |
| #2 | .00040 | .14258 | -.00215 | -.00087 | .00003 | .00042 | .07201 | .00010 | .00184 | .00009 | .02933 | .00543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00472** | **-.00680** | **-.01455** | **.00060** | **-.00004** | **-.00105** | **.00037** | **.00010** | **.01840** | **.00022** | **.00118** | **-.00104** |
| Stddev | .00152 | .01107 | .02369 | .00044 | .00010 | .00079 | .00032 | .00068 | .00124 | .00032 | .00009 | .00064 |
| %RSD | 32.272 | 162.86 | 162.86 | 73.056 | 250.31 | 75.233 | 87.554 | 701.25 | 6.7629 | 147.13 | 7.7445 | 61.838 |
| #1 | .00580 | .00103 | .00221 | .00091 | .00003 | -.00162 | .00060 | .00058 | .01928 | .00044 | .00112 | -.00149 |
| #2 | .00365 | -.01463 | -.03130 | .00029 | -.00011 | -.00049 | .00014 | -.00039 | .01752 | -.00001 | .00125 | -.00058 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9281.1** | **117990.** | **9675.6** |
| Stddev | 16.7 | 219. | 14.5 |
| %RSD | .18029 | .18578 | .15029 |
| #1 | 9269.3 | 118150. | 9685.8 |
| #2 | 9292.9 | 117840. | 9665.3 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 18:07:44 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01038** | **.10824** | **.01808** | **.09508** | **.00954** | **.00092** | **.10876** | **.20244** | **.00514** | **.01073** | **.01014** | **.01477** | **.10308** |
| Stddev | .00002 | .00097 | .00261 | .00021 | .00018 | .00009 | .00096 | .00212 | .00003 | .00011 | .00001 | .00010 | .00015 |
| %RSD | .16228 | .89262 | 14.452 | .22611 | 1.8462 | 10.025 | .88173 | 1.0450 | .53255 | .98196 | .08410 | .70851 | .14584 |
| #1 | .01039 | .10892 | .01624 | .09524 | .00942 | .00099 | .10808 | .20094 | .00512 | .01080 | .01015 | .01485 | .10318 |
| #2 | .01037 | .10755 | .01993 | .09493 | .00967 | .00086 | .10943 | .20393 | .00515 | .01065 | .01014 | .01470 | .10297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1774** | **.01275** | **.20194** | **.01040** | **.01959** | **1.1398** | **.04170** | **2.7895** | **.00969** | **.02795** | **.01049** | **.01605** | **.47835** |
| Stddev | .0215 | .00134 | .00076 | .00006 | .00015 | .0176 | .00030 | .0136 | .00024 | .00093 | .00093 | .00012 | .01032 |
| %RSD | .67789 | 10.519 | .37707 | .60099 | .77150 | 1.5445 | .72025 | .48704 | 2.4569 | 3.3243 | 8.8598 | .71768 | 2.1581 |
| #1 | 3.1926 | .01181 | .20140 | .01045 | .01970 | 1.1522 | .04192 | 2.7991 | .00952 | .02861 | .01114 | .01597 | .47105 |
| #2 | 3.1622 | .01370 | .20247 | .01036 | .01948 | 1.1273 | .04149 | 2.7799 | .00986 | .02729 | .00983 | .01613 | .48565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0237** | **.09977** | **.01024** | **.01481** | **.01027** | **.01511** | F **.08822** | **.01045** | **.02104** | **.01374** |
| Stddev | .0221 | .00059 | .00019 | .00020 | .00025 | .00014 | .02701 | .00006 | .00005 | .00168 |
| %RSD | 2.1581 | .58699 | 1.8564 | 1.3544 | 2.4329 | .92649 | 30.612 | .61479 | .26052 | 12.195 |
| #1 | 1.0081 | .09936 | .01011 | .01496 | .01009 | .01521 | .06912 | .01049 | .02108 | .01492 |
| #2 | 1.0393 | .10018 | .01038 | .01467 | .01044 | .01501 | .10732 | .01040 | .02100 | .01255 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9142.8** | **117340.** | **9819.4** |
| Stddev | 34.4 | 59. | 53.3 |
| %RSD | .37615 | .05025 | .54267 |
| #1 | 9118.5 | 117290. | 9857.1 |
| #2 | 9167.1 | 117380. | 9781.8 |

Sample Name: mb 280-186645/1-a  Acquired: 8/14/2013 18:10:00  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00380** | **.00057** | **.00250** | **.00011** | **.00001** | **-.00067** | **.04580** | **-.00008** | **.00035** |
| Stddev | .00047 | .00063 | .00042 | .00016 | .00000 | .00006 | .00194 | .00010 | .00008 | .00002 |
| %RSD | 148.53 | 16.493 | 73.785 | 6.5818 | .40291 | 663.18 | 288.30 | .21117 | 98.528 | 7.1111 |
| #1 | .00064 | .00335 | .00086 | .00238 | .00011 | .00005 | .00070 | .04574 | -.00013 | .00037 |
| #2 | -.00002 | .00424 | .00027 | .00261 | .00011 | -.00004 | -.00204 | .04587 | -.00002 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **-.00040** | **.01610** | **.09660** | **-.00117** | **.00496** | **.00016** | **-.00007** | **.08936** | **.00026** |
| Stddev | .00002 | .00015 | .00196 | .07213 | .00060 | .00158 | .00002 | .00000 | .00778 | .00000 |
| %RSD | 42.832 | 38.672 | 12.196 | 74.671 | 50.811 | 31.826 | 12.621 | 3.4106 | 8.7031 | 1.6367 |
| #1 | .00004 | -.00051 | .01471 | .04560 | -.00160 | .00607 | .00018 | -.00007 | .09486 | .00026 |
| #2 | .00007 | -.00029 | .01748 | .14761 | -.00075 | .00384 | .00015 | -.00007 | .08386 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00538** | **.00013** | **.03267** | **-.00082** | **.00002** | **-.00947** | **-.02027** | **.00953** | **.00011** | **-.00003** |
| Stddev | .00001 | .00075 | .00088 | .00130 | .00084 | .00252 | .00539 | .00022 | .00004 | .00128 |
| %RSD | .10945 | 566.24 | 2.6941 | 158.25 | 4371.3 | 26.610 | 26.610 | 2.3562 | 39.473 | 3687.0 |
| #1 | .00539 | -.00040 | .03205 | -.00174 | .00061 | -.00769 | -.01645 | .00969 | .00014 | .00087 |
| #2 | .00538 | .00067 | .03329 | .00010 | -.00057 | -.01125 | -.02408 | .00937 | .00008 | -.00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **-.00151** | **.03083** | **.00025** | **.00268** | **-.00156** |
| Stddev | .00021 | .00024 | .00150 | .00070 | .00007 | .00012 |
| %RSD | 49.829 | 16.107 | 4.8720 | 279.94 | 2.7218 | 7.9656 |
| #1 | .00028 | -.00168 | .02977 | -.00024 | .00263 | -.00147 |
| #2 | .00058 | -.00133 | .03190 | .00074 | .00274 | -.00165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9354.7** | **119800.** | **9783.7** |
| Stddev | .1 | 573. | 105.4 |
| %RSD | .00132 | .47854 | 1.0770 |
| #1 | 9354.8 | 119390. | 9709.2 |
| #2 | 9354.6 | 120200. | 9858.2 |

Sample Name: lcs 280-186645/2-a Acquired: 8/14/2013 18:12:16 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04946** | **2.0369** | **1.0190** | **.96085** | **1.9801** | **.05062** | **2.0741** | **50.636** | **.10702** | **.51091** |
| Stddev | .00024 | .0014 | .0080 | .00360 | .0014 | .00021 | .0060 | .047 | .00012 | .00163 |
| %RSD | .47949 | .06743 | .78167 | .37416 | .06886 | .40932 | .28783 | .09339 | .11576 | .31870 |
| #1 | .04962 | 2.0378 | 1.0246 | .96339 | 1.9811 | .05077 | 2.0783 | 50.603 | .10693 | .51206 |
| #2 | .04929 | 2.0359 | 1.0133 | .95831 | 1.9792 | .05047 | 2.0699 | 50.670 | .10711 | .50976 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20230** | **.26131** | **1.0318** | **51.542** | **1.0153** | **49.424** | **.51453** | **.97013** | **50.751** | **.50045** |
| Stddev | .00066 | .00080 | .0025 | .011 | .0033 | .131 | .00118 | .00475 | .253 | .00054 |
| %RSD | .32425 | .30716 | .24203 | .02174 | .32897 | .26425 | .22885 | .48977 | .49862 | .10884 |
| #1 | .20277 | .26074 | 1.0336 | 51.550 | 1.0130 | 49.332 | .51369 | .97349 | 50.572 | .50083 |
| #2 | .20184 | .26188 | 1.0300 | 51.534 | 1.0177 | 49.516 | .51536 | .96677 | 50.930 | .50006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.114** | **.50840** | **.03561** | **.48447** | **1.9886** | **1.3697** | **2.9312** | **1.9338** | **1.0370** | **.97642** |
| Stddev | .042 | .00028 | .00093 | .00037 | .0008 | .0062 | .0133 | .0018 | .0013 | .00206 |
| %RSD | .41482 | .05506 | 2.6239 | .07629 | .04174 | .45253 | .45253 | .09047 | .12401 | .21107 |
| #1 | 10.144 | .50820 | .03495 | .48473 | 1.9880 | 1.3741 | 2.9406 | 1.9325 | 1.0360 | .97496 |
| #2 | 10.084 | .50859 | .03627 | .48420 | 1.9892 | 1.3653 | 2.9218 | 1.9350 | 1.0379 | .97788 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0217** | **2.0351** | **2.1448** | **.51918** | **.49841** | **.51441** |
| Stddev | .0016 | .0063 | .0397 | .00090 | .00084 | .00115 |
| %RSD | .15798 | .31019 | 1.8501 | .17248 | .16767 | .22330 |
| #1 | 1.0206 | 2.0307 | 2.1728 | .51855 | .49782 | .51522 |
| #2 | 1.0228 | 2.0396 | 2.1167 | .51981 | .49900 | .51360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8835.9** | **110900.** | **9600.9** |
| Stddev | 21.8 | 652. | 6.9 |
| %RSD | .24626 | .58815 | .07174 |
| #1 | 8820.5 | 111360. | 9605.8 |
| #2 | 8851.3 | 110440. | 9596.0 |

Sample Name: 280-45201-a-9-c  Acquired: 8/14/2013 18:14:23  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00156** | **105.21** | **.06853** | **.08874** | **1.4389** | **.00575** | **.00053** | W **511.10** | **.02422** | **.05127** |
| Stddev | .00052 | .08 | .00040 | .00012 | .0028 | .00001 | .00037 | 3.86 | .00016 | .00000 |
| %RSD | 33.278 | .07259 | .58709 | .13503 | .19313 | .21641 | 69.286 | .75510 | .64493 | .00815 |
| #1 | -.00192 | 105.16 | .06824 | .08866 | 1.4370 | .00575 | .00027 | 513.83 | .02433 | .05126 |
| #2 | -.00119 | 105.26 | .06881 | .08883 | 1.4409 | .00576 | .00080 | 508.37 | .02411 | .05127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11916** | **.19933** | **139.31** | **28.801** | **.14525** | **47.839** | **3.5067** | **.01921** | **9.6876** | **.16379** |
| Stddev | .00024 | .00124 | .31 | .049 | .00234 | .006 | .0315 | .00019 | .0029 | .00010 |
| %RSD | .20446 | .61979 | .22225 | .16880 | 1.6137 | .01225 | .89771 | 1.0086 | .02956 | .06266 |
| #1 | .11933 | .19845 | 139.09 | 28.836 | .14691 | 47.843 | 3.4844 | .01907 | 9.6896 | .16386 |
| #2 | .11899 | .20020 | 139.53 | 28.767 | .14359 | 47.835 | 3.5289 | .01935 | 9.6856 | .16371 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.0353** | **.12700** | **6.3158** | **.00496** | **.00490** | **3.7555** | **8.0369** | **.01581** | **1.9003** | **.06833** |
| Stddev | .0058 | .00059 | .0093 | .00044 | .00317 | .0262 | .0560 | .00026 | .0057 | .00277 |
| %RSD | .11534 | .46588 | .14729 | 8.7751 | 64.744 | .69709 | .69709 | 1.6652 | .30267 | 4.0564 |
| #1 | 5.0312 | .12658 | 6.3223 | .00465 | .00714 | 3.7370 | 7.9972 | .01600 | 1.8962 | .07029 |
| #2 | 5.0394 | .12742 | 6.3092 | .00527 | .00266 | 3.7741 | 8.0765 | .01562 | 1.9044 | .06637 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0861** | **-.00078** | F **-.37677** | **.29804** | **.98080** | **.05432** |
| Stddev | .0018 | .00019 | .03711 | .00020 | .00052 | .00023 |
| %RSD | .16711 | 24.264 | 9.8497 | .06864 | .05252 | .42710 |
| #1 | 1.0848 | -.00064 | -.35053 | .29818 | .98044 | .05416 |
| #2 | 1.0874 | -.00091 | -.40301 | .29789 | .98116 | .05449 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9455.3** | **114580.** | **10606.** |
| Stddev | 19.0 | 223. | 29. |
| %RSD | .20123 | .19490 | .27616 |
| #1 | 9468.8 | 114740. | 10586. |
| #2 | 9441.8 | 114420. | 10627. |

Sample Name: 280-45201-a-9-cSD@5 Acquired: 8/14/2013 18:16:44 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00048** | **22.599** | **.01464** | **.02237** | **.31240** | **.00122** | **.00060** | **115.69** | **.00521** | **.01166** |
| Stddev | .00057 | .113 | .00055 | .00053 | .00249 | .00005 | .00093 | .67 | .00039 | .00008 |
| %RSD | 118.94 | .50025 | 3.7295 | 2.3872 | .79680 | 4.4510 | 153.69 | .57617 | 7.4159 | .71011 |
| #1 | -.00089 | 22.519 | .01425 | .02274 | .31064 | .00126 | -.00005 | 115.22 | .00493 | .01160 |
| #2 | -.00008 | 22.679 | .01502 | .02199 | .31416 | .00118 | .00126 | 116.16 | .00548 | .01171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02601** | **.04234** | **31.928** | **6.2103** | **.03034** | **10.490** | **.76256** | **.00404** | **2.0931** | **.03660** |
| Stddev | .00012 | .00005 | .193 | .0792 | .00192 | .006 | .00191 | .00003 | .0065 | .00048 |
| %RSD | .47755 | .12379 | .60387 | 1.2755 | 6.3266 | .05615 | .25000 | .74885 | .31168 | 1.3177 |
| #1 | .02592 | .04231 | 31.792 | 6.1543 | .03169 | 10.494 | .76391 | .00406 | 2.0885 | .03626 |
| #2 | .02610 | .04238 | 32.065 | 6.2663 | .02898 | 10.486 | .76121 | .00402 | 2.0977 | .03694 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0730** | **.02891** | **1.3266** | **.00267** | **.00010** | **.83119** | **1.7787** | **.00343** | **.40795** | **.01299** |
| Stddev | .0006 | .00065 | .0093 | .00160 | .00359 | .01109 | .0237 | .00008 | .00204 | .00064 |
| %RSD | .05236 | 2.2420 | .70121 | 60.009 | 3456.2 | 1.3345 | 1.3345 | 2.2579 | .50043 | 4.9255 |
| #1 | 1.0726 | .02846 | 1.3200 | .00380 | .00264 | .82334 | 1.7620 | .00337 | .40651 | .01253 |
| #2 | 1.0734 | .02937 | 1.3331 | .00153 | -.00243 | .83903 | 1.7955 | .00348 | .40939 | .01344 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22851** | **-.00014** | W **-.08234** | **.06336** | **.21567** | **.01003** |
| Stddev | .00012 | .00007 | .00962 | .00003 | .00023 | .00065 |
| %RSD | .05212 | 51.254 | 11.689 | .04871 | .10607 | 6.4312 |
| #1 | .22859 | -.00009 | -.07554 | .06338 | .21583 | .01049 |
| #2 | .22842 | -.00019 | -.08915 | .06333 | .21550 | .00957 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9190.7** | **114420.** | **9822.9** |
| Stddev | 6.2 | 397. | 65.7 |
| %RSD | .06728 | .34694 | .66863 |
| #1 | 9186.3 | 114140. | 9869.3 |
| #2 | 9195.0 | 114700. | 9776.4 |

Sample Name: 280-45201-a-9-d ms  Acquired: 8/14/2013 18:18:57  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04670** | **131.84** | **.99834** | **.97502** | **2.9348** | **.05225** | F **1.9055** | **387.63** | **.11592** | **.49355** |
| Stddev | .00036 | .64 | .00368 | .00095 | .0101 | .00023 | .0059 | 4.97 | .00050 | .00035 |
| %RSD | .77543 | .48567 | .36812 | .09740 | .34406 | .44398 | .31063 | 1.2821 | .43287 | .07107 |
| #1 | .04644 | 131.39 | 1.0009 | .97435 | 2.9277 | .05208 | 1.9013 | 384.11 | .11556 | .49330 |
| #2 | .04695 | 132.30 | .99574 | .97570 | 2.9419 | .05241 | 1.9097 | 391.14 | .11627 | .49379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32272** | **.39870** | **123.24** | **78.796** | **1.0972** | **88.171** | **2.8859** | **.87321** | **54.396** | **.56575** |
| Stddev | .00010 | .00075 | .74 | .421 | .0044 | .279 | .0199 | .00107 | .507 | .00154 |
| %RSD | .03243 | .18923 | .60033 | .53389 | .39734 | .31644 | .68864 | .12235 | .93182 | .27184 |
| #1 | .32265 | .39817 | 122.71 | 78.499 | 1.0941 | 88.368 | 2.8719 | .87245 | 54.038 | .56466 |
| #2 | .32279 | .39924 | 123.76 | 79.094 | 1.1003 | 87.974 | 2.9000 | .87397 | 54.754 | .56684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **13.183** | **.53650** | **3.7186** | **.24394** | **1.8152** | **7.5850** | **16.232** | **1.6864** | **2.2301** | **.95831** |
| Stddev | .029 | .00149 | .0141 | .00224 | .0030 | .0552 | .118 | .0052 | .0119 | .00073 |
| %RSD | .22131 | .27863 | .37890 | .91936 | .16506 | .72818 | .72818 | .30574 | .53194 | .07578 |
| #1 | 13.162 | .53544 | 3.7086 | .24553 | 1.8130 | 7.5460 | 16.148 | 1.6828 | 2.2217 | .95780 |
| #2 | 13.203 | .53755 | 3.7285 | .24236 | 1.8173 | 7.6241 | 16.316 | 1.6901 | 2.2385 | .95882 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1329** | **1.7098** | **1.7021** | **.87107** | **1.0603** | **.52839** |
| Stddev | .0024 | .0013 | .0078 | .00011 | .0035 | .00072 |
| %RSD | .07713 | .07792 | .46015 | .01278 | .32592 | .13634 |
| #1 | 3.1312 | 1.7089 | 1.6965 | .87115 | 1.0627 | .52788 |
| #2 | 3.1346 | 1.7108 | 1.7076 | .87099 | 1.0578 | .52890 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9133.3** | **111050.** | **10190.** |
| Stddev | 2.7 | 218. | 112. |
| %RSD | .02968 | .19592 | 1.0961 |
| #1 | 9135.2 | 110900. | 10269. |
| #2 | 9131.4 | 111200. | 10111. |

Sample Name: 280-45201-a-9-e msd  Acquired: 8/14/2013 18:21:19  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04608** | **178.42** | **.99556** | **.98397** | **3.3808** | **.05292** | F **1.8599** | **472.97** | **.11778** | **.48833** |
| Stddev | .00063 | 2.03 | .00027 | .00247 | .0377 | .00067 | .0060 | 3.16 | .00026 | .00055 |
| %RSD | 1.3692 | 1.1356 | .02699 | .25099 | 1.1154 | 1.2646 | .32496 | .66807 | .22356 | .11227 |
| #1 | .04653 | 176.98 | .99537 | .98222 | 3.3542 | .05244 | 1.8557 | 470.74 | .11760 | .48872 |
| #2 | .04564 | 179.85 | .99575 | .98572 | 3.4075 | .05339 | 1.8642 | 475.20 | .11797 | .48794 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36504** | **.45919** | **156.43** | **86.562** | **1.1473** | **104.14** | **3.3331** | **.84550** | **54.655** | **.59222** |
| Stddev | .00037 | .00035 | 1.79 | 1.119 | .0110 | .77 | .0284 | .00025 | .757 | .00062 |
| %RSD | .10219 | .07718 | 1.1415 | 1.2923 | .95624 | .73993 | .85285 | .02975 | 1.3843 | .10521 |
| #1 | .36477 | .45944 | 155.17 | 85.771 | 1.1396 | 104.69 | 3.3130 | .84568 | 54.120 | .59266 |
| #2 | .36530 | .45894 | 157.69 | 87.353 | 1.1551 | 103.60 | 3.3532 | .84533 | 55.190 | .59178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **13.577** | **.53998** | **8.3859** | **.18977** | **1.7859** | **7.8452** | **16.789** | **1.6251** | **2.5689** | **.95422** |
| Stddev | .010 | .00186 | .0012 | .00285 | .0034 | .0882 | .189 | .0023 | .0310 | .00335 |
| %RSD | .07185 | .34390 | .01372 | 1.5029 | .19002 | 1.1246 | 1.1246 | .13965 | 1.2067 | .35096 |
| #1 | 13.571 | .53867 | 8.3851 | .19179 | 1.7835 | 7.7828 | 16.655 | 1.6235 | 2.5469 | .95659 |
| #2 | 13.584 | .54130 | 8.3867 | .18776 | 1.7883 | 7.9076 | 16.922 | 1.6267 | 2.5908 | .95186 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.6576** | **1.6440** | **1.5752** | **.98498** | **1.2908** | **.52866** |
| Stddev | .0044 | .0029 | .0038 | .00118 | .0018 | .00444 |
| %RSD | .12116 | .17787 | .24041 | .12016 | .13868 | .83911 |
| #1 | 3.6608 | 1.6460 | 1.5726 | .98582 | 1.2921 | .52552 |
| #2 | 3.6545 | 1.6419 | 1.5779 | .98414 | 1.2896 | .53179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9388.2** | **113900.** | **10621.** |
| Stddev | 1.5 | 24. | 124. |
| %RSD | .01584 | .02079 | 1.1685 |
| #1 | 9387.1 | 113920. | 10709. |
| #2 | 9389.2 | 113890. | 10533. |

Sample Name: 280-45223-a-2-e  Acquired: 8/14/2013 18:23:42  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00157** | **108.11** | **.03092** | **.01030** | **1.5606** | **.00980** | **-.00383** | **63.886** | **.00428** | **.04913** |
| Stddev | .00019 | .38 | .00129 | .00003 | .0051 | .00008 | .00119 | .154 | .00005 | .00023 |
| %RSD | 12.046 | .34871 | 4.1623 | .31082 | .32806 | .77798 | 31.183 | .24044 | 1.1963 | .47095 |
| #1 | -.00171 | 107.85 | .03183 | .01032 | 1.5570 | .00975 | -.00298 | 63.777 | .00424 | .04896 |
| #2 | -.00144 | 108.38 | .03001 | .01028 | 1.5643 | .00985 | -.00467 | 63.994 | .00431 | .04929 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13661** | **.61473** | **111.72** | **15.581** | **.11826** | **21.534** | **.94405** | **.00905** | **3.1860** | **.13976** |
| Stddev | .00033 | .00099 | .22 | .016 | .00048 | .059 | .00152 | .00011 | .0081 | .00027 |
| %RSD | .24126 | .16148 | .19937 | .09952 | .40309 | .27551 | .16082 | 1.2559 | .25415 | .19406 |
| #1 | .13637 | .61543 | 111.57 | 15.592 | .11792 | 21.576 | .94512 | .00897 | 3.1803 | .13957 |
| #2 | .13684 | .61403 | 111.88 | 15.570 | .11859 | 21.492 | .94297 | .00913 | 3.1917 | .13995 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.83717** | **.18550** | **.47986** | **.00194** | **.00398** | **3.7982** | **8.1282** | **.01335** | **.64013** | **.09977** |
| Stddev | .00194 | .00074 | .00057 | .00190 | .00208 | .0180 | .0384 | .00070 | .00158 | .00114 |
| %RSD | .23129 | .40118 | .11959 | 97.828 | 52.339 | .47301 | .47301 | 5.2713 | .24700 | 1.1430 |
| #1 | .83580 | .18498 | .47945 | .00060 | .00251 | 3.7855 | 8.1010 | .01384 | .63901 | .10057 |
| #2 | .83854 | .18603 | .48026 | .00328 | .00546 | 3.8109 | 8.1554 | .01285 | .64125 | .09896 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29868** | **-.00165** | F **-.38066** | **.20699** | **.95464** | **.02176** |
| Stddev | .00023 | .00182 | .03126 | .00034 | .00529 | .00165 |
| %RSD | .07672 | 110.32 | 8.2115 | .16556 | .55373 | 7.5658 |
| #1 | .29852 | -.00294 | -.40276 | .20723 | .95838 | .02292 |
| #2 | .29885 | -.00036 | -.35856 | .20675 | .95090 | .02060 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10151.** | **124190.** | **11046.** |
| Stddev | 3. | 38. | 15. |
| %RSD | .02919 | .03087 | .13905 |
| #1 | 10153. | 124160. | 11057. |
| #2 | 10149. | 124210. | 11035. |

Sample Name: 280-45268-a-6-b  Acquired: 8/14/2013 18:25:54  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00090** | **47.031** | **.01954** | **.04226** | W **12.214** | **.00851** | **-.02232** | **43.271** | **.00206** | **.03520** |
| Stddev | .00046 | .016 | .00338 | .00009 | .059 | .00003 | .00149 | .008 | .00003 | .00002 |
| %RSD | 51.029 | .03350 | 17.306 | .21752 | .48190 | .31489 | 6.6902 | .01800 | 1.5158 | .06270 |
| #1 | -.00122 | 47.042 | .01715 | .04219 | 12.173 | .00853 | -.02338 | 43.276 | .00204 | .03521 |
| #2 | -.00057 | 47.020 | .02193 | .04232 | 12.256 | .00849 | -.02126 | 43.265 | .00208 | .03518 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 10.000 | | | | | |
| Low Limit | | | | | -.01000 | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10299** | **.51147** | **83.867** | **13.862** | **.10479** | **11.622** | **.41868** | **.01843** | **23.112** | **.10622** |
| Stddev | .00014 | .00043 | .385 | .024 | .00113 | .031 | .00114 | .00007 | .332 | .00012 |
| %RSD | .13161 | .08411 | .45847 | .17491 | 1.0809 | .26852 | .27145 | .37629 | 1.4370 | .11387 |
| #1 | .10290 | .51177 | 84.139 | 13.845 | .10399 | 11.644 | .41949 | .01848 | 22.877 | .10631 |
| #2 | .10309 | .51117 | 83.595 | 13.879 | .10559 | 11.600 | .41788 | .01838 | 23.346 | .10614 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.1973** | **.12621** | **7.0904** | **.00019** | **.01009** | **18.711** | **40.042** | **.04031** | W **6.0919** | **.04518** |
| Stddev | .0003 | .00062 | .0133 | .00037 | .00467 | .178 | .382 | .00057 | .0749 | .00119 |
| %RSD | .01207 | .49074 | .18726 | 189.16 | 46.255 | .95340 | .95340 | 1.4159 | 1.2302 | 2.6413 |
| #1 | 2.1975 | .12664 | 7.0998 | -.00007 | .01339 | 18.837 | 40.312 | .04071 | 6.0389 | .04434 |
| #2 | 2.1971 | .12577 | 7.0810 | .00045 | .00679 | 18.585 | 39.772 | .03990 | 6.1449 | .04603 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | | | | | | | 5.0000 | |
| Low Limit | -1.0000 | | | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67299** | **-.00210** | F **-.16138** | **.16748** | **.43065** | **.09398** |
| Stddev | .00001 | .00099 | .02015 | .00085 | .00192 | .00028 |
| %RSD | .00215 | 47.291 | 12.488 | .50894 | .44525 | .29705 |
| #1 | .67298 | -.00281 | -.17563 | .16809 | .43201 | .09417 |
| #2 | .67300 | -.00140 | -.14713 | .16688 | .42930 | .09378 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9635.2** | **121880.** | **10604.** |
| Stddev | 112.8 | 540. | 1. |
| %RSD | 1.1705 | .44296 | .00919 |
| #1 | 9715.0 | 121500. | 10605. |
| #2 | 9555.5 | 122260. | 10603. |

Sample Name: 280-45268-a-12-b  Acquired: 8/14/2013 18:28:17  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186645 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00230** | **121.69** | **.02851** | **.02438** | **3.3121** | **.01082** | **-.00114** | **117.51** | **.00343** | **.11296** |
| Stddev | .00001 | 1.11 | .00034 | .00038 | .0408 | .00012 | .00295 | 1.32 | .00018 | .00060 |
| %RSD | .42041 | .91330 | 1.1898 | 1.5475 | 1.2309 | 1.1505 | 259.49 | 1.1258 | 5.3807 | .53499 |
| #1 | -.00231 | 120.91 | .02875 | .02465 | 3.2833 | .01073 | .00095 | 116.57 | .00356 | .11339 |
| #2 | -.00229 | 122.48 | .02827 | .02411 | 3.3410 | .01091 | -.00323 | 118.44 | .00330 | .11253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23280** | **.37153** | **245.07** | **20.309** | **.14509** | **42.600** | **5.2079** | **.00494** | **13.533** | **.18485** |
| Stddev | .00168 | .00108 | 3.61 | .211 | .00241 | .026 | .0651 | .00008 | .294 | .00091 |
| %RSD | .72310 | .28989 | 1.4744 | 1.0374 | 1.6625 | .06170 | 1.2500 | 1.5645 | 2.1731 | .49128 |
| #1 | .23399 | .37229 | 242.52 | 20.160 | .14679 | 42.582 | 5.1619 | .00488 | 13.325 | .18549 |
| #2 | .23161 | .37077 | 247.63 | 20.458 | .14338 | 42.619 | 5.2540 | .00499 | 13.741 | .18421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.3258** | **.13177** | **1.7506** | **-.00209** | **.00658** | **2.9833** | **6.3843** | **.01365** | **.92121** | **.05751** |
| Stddev | .0290 | .00081 | .0124 | .00310 | .00094 | .0260 | .0556 | .00058 | .01300 | .00442 |
| %RSD | .67065 | .61289 | .70842 | 147.91 | 14.347 | .87016 | .87016 | 4.2151 | 1.4113 | 7.6874 |
| #1 | 4.3463 | .13120 | 1.7594 | -.00428 | .00592 | 2.9650 | 6.3451 | .01324 | .91201 | .06064 |
| #2 | 4.3053 | .13234 | 1.7419 | .00010 | .00725 | 3.0017 | 6.4236 | .01405 | .93040 | .05438 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7608** | **-.00337** | F **-.34105** | **.29460** | **.83731** | **.06415** |
| Stddev | .0006 | .00054 | .00848 | .00128 | .00402 | .00072 |
| %RSD | .03664 | 16.088 | 2.4870 | .43609 | .47990 | 1.1297 |
| #1 | 1.7603 | -.00375 | -.34705 | .29369 | .83446 | .06363 |
| #2 | 1.7612 | -.00299 | -.33506 | .29551 | .84015 | .06466 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9683.9** | **119590.** | **10503.** |
| Stddev | 55.7 | 740. | 113. |
| %RSD | .57519 | .61908 | 1.0730 |
| #1 | 9723.3 | 120110. | 10583. |
| #2 | 9644.5 | 119060. | 10423. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 18:30:39 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **50.368** | **.00518** | **.00411** | **.00120** | **-.00011** | **.99164** | **-.00406** | **-.00020** | **.00026** | **-.00003** | **.00252** | **49.042** |
| Stddev | .00024 | .269 | .00024 | .00044 | .00016 | .00007 | .00062 | .00219 | .00034 | .00005 | .00007 | .00027 | .047 |
| %RSD | 276.06 | .53468 | 4.6247 | 10.790 | 13.587 | 64.439 | .06204 | 53.932 | 172.11 | 18.043 | 193.67 | 10.702 | .09578 |
| #1 | .00008 | 50.177 | .00501 | .00380 | .00109 | -.00006 | .99121 | -.00561 | -.00044 | .00022 | .00001 | .00233 | 49.075 |
| #2 | -.00026 | 50.558 | .00535 | .00442 | .00132 | -.00016 | .99208 | -.00251 | .00004 | .00029 | -.00008 | .00271 | 49.009 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18931** | **-.00064** | **-.01088** | **.00002** | **.00020** | **248.17** | **.00083** | **.00735** | **.00198** | **5.0216** | **.00209** | **-.00390** | **.00413** |
| Stddev | .00791 | .00027 | .00216 | .00003 | .00016 | 1.70 | .00017 | .00102 | .00016 | .0256 | .00052 | .00094 | .00583 |
| %RSD | 4.1776 | 41.648 | 19.873 | 181.66 | 79.824 | .68641 | 20.819 | 13.819 | 8.1060 | .51029 | 24.767 | 24.159 | 141.19 |
| #1 | .19490 | -.00045 | -.01241 | .00003 | .00009 | 246.96 | .00071 | .00807 | .00186 | 5.0035 | .00246 | -.00323 | .00001 |
| #2 | .18372 | -.00083 | -.00935 | .00000 | .00031 | 249.37 | .00096 | .00663 | .00209 | 5.0397 | .00173 | -.00456 | .00825 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00884** | **.00030** | **.00050** | **4.9274** | **-.00054** | **.00021** | **10.018** | **.00133** | **.00109** | **.02300** |
| Stddev | .01248 | .00043 | .00006 | .0036 | .00021 | .00015 | .059 | .00078 | .00003 | .00102 |
| %RSD | 141.19 | 143.38 | 11.712 | .07282 | 39.319 | 71.661 | .58613 | 58.852 | 3.0999 | 4.4253 |
| #1 | .00001 | .00000 | .00054 | 4.9248 | -.00069 | .00032 | 9.9764 | .00078 | .00112 | .02228 |
| #2 | .01766 | .00060 | .00046 | 4.9299 | -.00039 | .00011 | 10.059 | .00189 | .00107 | .02372 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8700.7** | **106880.** | **9155.2** |
| Stddev | 35.2 | 343. | 9.5 |
| %RSD | .40494 | .32099 | .10429 |
| #1 | 8725.6 | 106640. | 9162.0 |
| #2 | 8675.8 | 107130. | 9148.5 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 18:32:59 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49917** | **.53074** | **.97759** | **.49699** | **.48248** | **.49791** | **-.00092** | **4.9986** | **.50159** | **.51062** | **.49421** | **.50823** | **2.5176** |
| Stddev | .00248 | .00116 | .00183 | .00090 | .00301 | .00365 | .00021 | .0370 | .00036 | .00007 | .00001 | .00159 | .0060 |
| %RSD | .49699 | .21796 | .18671 | .18136 | .62299 | .73224 | 22.418 | .73936 | .07221 | .01447 | .00248 | .31383 | .23637 |
| #1 | .49742 | .52993 | .97888 | .49636 | .48035 | .49534 | -.00107 | 4.9725 | .50133 | .51068 | .49420 | .50710 | 2.5134 |
| #2 | .50092 | .53156 | .97630 | .49763 | .48460 | .50049 | -.00077 | 5.0248 | .50185 | .51057 | .49422 | .50935 | 2.5218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.031** | **.99317** | **19.626** | **.50836** | **.48956** | **5.2236** | **.50169** | **.97252** | **1.0140** | **.01281** | **1.0191** | **.98961** | **4.9493** |
| Stddev | .398 | .01180 | .014 | .00123 | .00057 | .0368 | .00028 | .00008 | .0032 | .00006 | .0030 | .00190 | .0274 |
| %RSD | .79516 | 1.1880 | .06878 | .24113 | .11570 | .70502 | .05607 | .00844 | .31775 | .49947 | .29330 | .19150 | .55336 |
| #1 | 49.750 | .98483 | 19.616 | .50749 | .48996 | 5.1975 | .50149 | .97246 | 1.0117 | .01276 | 1.0169 | .98827 | 4.9299 |
| #2 | 50.312 | 1.0015 | 19.635 | .50922 | .48916 | 5.2496 | .50189 | .97258 | 1.0163 | .01285 | 1.0212 | .99095 | 4.9687 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.592** | **.98721** | **.50364** | **-.00547** | **.51124** | **1.0395** | **-.00583** | **.50286** | **.49359** | **.50634** |
| Stddev | .059 | .00654 | .00396 | .00125 | .00029 | .0078 | .00401 | .00131 | .00081 | .00402 |
| %RSD | .55336 | .66223 | .78533 | 22.935 | .05709 | .74855 | 68.899 | .26028 | .16448 | .79465 |
| #1 | 10.550 | .98258 | .50085 | -.00636 | .51103 | 1.0340 | -.00867 | .50378 | .49416 | .50349 |
| #2 | 10.633 | .99183 | .50644 | -.00458 | .51144 | 1.0450 | -.00299 | .50193 | .49301 | .50918 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8916.1** | **111880.** | **9388.4** |
| Stddev | 4.7 | 473. | 43.9 |
| %RSD | .05224 | .42271 | .46790 |
| #1 | 8919.4 | 111550. | 9419.4 |
| #2 | 8912.8 | 112220. | 9357.3 |

Sample Name: CCB  Acquired: 8/14/2013 18:35:05  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00076** | **.00250** | **.00284** | **.00000** | **.00003** | **-.00090** | **.00023** | **-.00006** | **.00012** | **-.00008** | **-.00054** |
| Stddev | .00027 | .00014 | .00106 | .00025 | .00026 | .00005 | .00261 | .00104 | .00004 | .00005 | .00008 | .00006 |
| %RSD | 555.10 | 18.987 | 42.382 | 8.7690 | 9945.7 | 166.84 | 289.09 | 446.12 | 69.597 | 44.352 | 103.67 | 11.871 |
| #1 | -.00024 | .00066 | .00175 | .00302 | .00018 | .00007 | -.00274 | .00097 | -.00009 | .00016 | -.00002 | -.00049 |
| #2 | .00014 | .00086 | .00325 | .00267 | -.00018 | -.00001 | .00094 | -.00050 | -.00003 | .00008 | -.00013 | -.00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00424** | **.11601** | **.00096** | **.00165** | **.00003** | **.00047** | **.05411** | **.00006** | **.00073** | **-.00064** | **.00884** | W **.00380** |
| Stddev | .00094 | .04362 | .00178 | .00088 | .00009 | .00003 | .00248 | .00007 | .00100 | .00056 | .00085 | .00011 |
| %RSD | 22.238 | 37.604 | 185.54 | 53.314 | 304.49 | 5.6018 | 4.5756 | 120.66 | 138.18 | 86.242 | 9.6363 | 2.9357 |
| #1 | .00491 | .14685 | .00221 | .00103 | .00009 | .00049 | .05236 | .00001 | .00002 | -.00025 | .00824 | .00372 |
| #2 | .00358 | .08516 | -.00030 | .00227 | -.00003 | .00045 | .05586 | .00011 | .00144 | -.00104 | .00945 | .00388 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00336** | **.01137** | **.02433** | **.00067** | **.00003** | **.00064** | **.00001** | **-.00055** | **.02911** | **.00064** | **.00108** | **-.00175** |
| Stddev | .00083 | .01647 | .03524 | .00087 | .00008 | .00025 | .00045 | .00058 | .02280 | .00023 | .00003 | .00174 |
| %RSD | 24.763 | 144.87 | 144.87 | 130.97 | 302.97 | 39.122 | 4889.0 | 104.97 | 78.304 | 36.136 | 3.0646 | 99.375 |
| #1 | .00277 | -.00028 | -.00059 | .00005 | .00008 | .00046 | -.00031 | -.00096 | .04523 | .00048 | .00111 | -.00298 |
| #2 | .00395 | .02301 | .04925 | .00128 | -.00003 | .00082 | .00033 | -.00014 | .01299 | .00080 | .00106 | -.00052 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8989.0** | **114560.** | **9293.8** |
| Stddev | 39.9 | 536. | 58.3 |
| %RSD | .44356 | .46771 | .62752 |
| #1 | 9017.2 | 114180. | 9335.1 |
| #2 | 8960.8 | 114940. | 9252.6 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 18:37:20 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01007** | **.10864** | **.01554** | **.09469** | **.01026** | **.00098** | **.10837** | **.20591** | **.00488** | **.01068** | **.01005** | **.01503** | **.10528** |
| Stddev | .00060 | .00017 | .00023 | .00047 | .00042 | .00004 | .00021 | .00354 | .00009 | .00001 | .00010 | .00001 | .00034 |
| %RSD | 5.9337 | .15674 | 1.4756 | .49890 | 4.0954 | 3.9922 | .19580 | 1.7188 | 1.8507 | .06286 | .97157 | .08097 | .31984 |
| #1 | .01049 | .10877 | .01570 | .09435 | .00996 | .00095 | .10852 | .20341 | .00482 | .01069 | .00998 | .01504 | .10552 |
| #2 | .00964 | .10852 | .01537 | .09502 | .01056 | .00100 | .10822 | .20841 | .00494 | .01068 | .01012 | .01502 | .10504 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1835** | **.00973** | **.20032** | **.01038** | **.01933** | **1.1101** | **.04137** | **2.7583** | **.00879** | **.01025** | **.01083** | **.01808** | **.47325** |
| Stddev | .0252 | .00095 | .00058 | .00007 | .00031 | .0119 | .00015 | .0012 | .00021 | .00090 | .00057 | .00062 | .01368 |
| %RSD | .79146 | 9.7155 | .28883 | .63929 | 1.6241 | 1.0718 | .36627 | .04375 | 2.3471 | 8.7875 | 5.2607 | 3.4474 | 2.8897 |
| #1 | 3.1657 | .00907 | .20073 | .01043 | .01911 | 1.1017 | .04126 | 2.7575 | .00864 | .00961 | .01124 | .01852 | .46358 |
| #2 | 3.2013 | .01040 | .19991 | .01034 | .01955 | 1.1185 | .04147 | 2.7592 | .00893 | .01089 | .01043 | .01764 | .48292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0128** | **.09995** | **.01025** | **.01338** | **.01025** | **.01490** | F **.09296** | **.01037** | **.02139** | **.01259** |
| Stddev | .0293 | .00014 | .00017 | .00030 | .00016 | .00008 | .01371 | .00012 | .00053 | .00102 |
| %RSD | 2.8897 | .13944 | 1.6379 | 2.2279 | 1.5429 | .54822 | 14.751 | 1.1317 | 2.4977 | 8.0629 |
| #1 | .99207 | .10005 | .01013 | .01359 | .01014 | .01496 | .08327 | .01046 | .02101 | .01187 |
| #2 | 1.0335 | .09985 | .01036 | .01317 | .01037 | .01485 | .10266 | .01029 | .02176 | .01331 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8966.5** | **114260.** | **9328.0** |
| Stddev | 1.7 | 443. | 77.6 |
| %RSD | .01852 | .38800 | .83160 |
| #1 | 8965.3 | 113950. | 9382.8 |
| #2 | 8967.6 | 114580. | 9273.1 |

Sample Name: lb 280-186403/1-c  Acquired: 8/14/2013 18:39:36  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.00596** | **.00375** | **.00730** | **.00236** | **-.00003** | **-.00261** | W **.10739** | **-.00018** | **.00021** |
| Stddev | .00017 | .00057 | .00318 | .00043 | .00011 | .00002 | .00179 | .00132 | .00006 | .00031 |
| %RSD | 39.536 | 9.5261 | 84.852 | 5.8547 | 4.6975 | 87.937 | 68.403 | 1.2260 | 32.364 | 148.65 |
| #1 | -.00056 | .00636 | .00150 | .00761 | .00228 | -.00004 | -.00388 | .10646 | -.00022 | -.00001 |
| #2 | -.00032 | .00555 | .00600 | .00700 | .00244 | -.00001 | -.00135 | .10832 | -.00014 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00498** | **.01160** | **.29222** | **.00006** | **.01184** | **.00028** | **.00003** | **304.04** | **.00017** |
| Stddev | .00009 | .00013 | .00194 | .06207 | .00143 | .00208 | .00011 | .00008 | .48 | .00022 |
| %RSD | 68.534 | 2.6355 | 16.700 | 21.242 | 2529.2 | 17.562 | 39.463 | 241.21 | .15737 | 129.36 |
| #1 | .00019 | .00508 | .01297 | .24833 | .00107 | .01331 | .00035 | .00009 | 303.70 | .00032 |
| #2 | .00007 | .00489 | .01023 | .33612 | -.00096 | .01037 | .00020 | -.00002 | 304.38 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00340** | **-.00054** | **.01745** | **.00204** | **.00294** | **.02178** | **.04662** | **.00018** | **.00044** | **-.00218** |
| Stddev | .00115 | .00052 | .00135 | .00312 | .00281 | .00904 | .01935 | .00113 | .00005 | .00054 |
| %RSD | 33.832 | 96.239 | 7.7434 | 152.75 | 95.701 | 41.508 | 41.508 | 639.45 | 12.311 | 24.581 |
| #1 | .00421 | -.00017 | .01841 | -.00016 | .00095 | .01539 | .03294 | -.00062 | .00041 | -.00180 |
| #2 | .00259 | -.00091 | .01650 | .00425 | .00492 | .02818 | .06030 | .00097 | .00048 | -.00256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00054** | **.03968** | **.00074** | **.00366** | **-.00057** |
| Stddev | .00016 | .00013 | .09158 | .00042 | .00005 | .00358 |
| %RSD | 110.47 | 23.849 | 230.80 | 56.977 | 1.4689 | 625.18 |
| #1 | .00026 | -.00063 | -.02508 | .00104 | .00362 | .00196 |
| #2 | .00003 | -.00045 | .10444 | .00044 | .00370 | -.00311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8639.5** | **107430.** | **9445.3** |
| Stddev | 71.5 | 1608. | 138.7 |
| %RSD | .82779 | 1.4969 | 1.4684 |
| #1 | 8589.0 | 108570. | 9347.2 |
| #2 | 8690.1 | 106300. | 9543.4 |

Sample Name: lcs 280-186403/2-c Acquired: 8/14/2013 18:42:00 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186785 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22516** | F **.43264** | **.85702** | **.21048** | **2.4790** | **.01056** | **.42316** | **10.507** | **.23885** | **.10482** |
| Stddev | .00013 | .00080 | .00043 | .00026 | .0081 | .00003 | .00133 | .024 | .00010 | .00041 |
| %RSD | .05727 | .18511 | .05033 | .12543 | .32683 | .28305 | .31409 | .23014 | .04058 | .39150 |
| #1 | .22525 | .43207 | .85671 | .21030 | 2.4848 | .01059 | .42222 | 10.524 | .23878 | .10453 |
| #2 | .22506 | .43321 | .85732 | .21067 | 2.4733 | .01054 | .42410 | 10.489 | .23892 | .10511 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .43200 | | | | | | | | |
| Low Limit | | .34400 | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0875** | **.48664** | **.21958** | **10.984** | **.20549** | **9.8355** | **.10552** | **.20781** | F **297.33** | **.10427** |
| Stddev | .0003 | .00106 | .00331 | .013 | .00153 | .0213 | .00012 | .00007 | .59 | .00018 |
| %RSD | .02590 | .21725 | 1.5075 | .12025 | .74360 | .21626 | .11337 | .03359 | .19919 | .17001 |
| #1 | 1.0877 | .48739 | .21724 | 10.974 | .20657 | 9.8505 | .10561 | .20786 | 297.75 | .10415 |
| #2 | 1.0873 | .48590 | .22192 | 10.993 | .20441 | 9.8204 | .10544 | .20776 | 296.91 | .10440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | 11.200 | |
| Low Limit | | | | | | | | | 9.1000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1413** | **1.1527** | **.01257** | **.10585** | **.63294** | **2.1050** | F **4.5048** | **.40688** | **.21144** | **.20055** |
| Stddev | .0020 | .0032 | .00169 | .00015 | .00197 | .0126 | .0269 | .00111 | .00016 | .00048 |
| %RSD | .09185 | .28125 | 13.439 | .14371 | .31102 | .59784 | .59784 | .27394 | .07360 | .24047 |
| #1 | 2.1400 | 1.1504 | .01377 | .10574 | .63155 | 2.0961 | 4.4858 | .40609 | .21155 | .20021 |
| #2 | 2.1427 | 1.1550 | .01138 | .10596 | .63433 | 2.1139 | 4.5238 | .40767 | .21133 | .20089 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 4.9220 | | | |
| Low Limit | | | | | | | 4.0200 | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21592** | **.40145** | **.44922** | **.10903** | **.53770** | **.10596** |
| Stddev | .00077 | .00082 | .01274 | .00015 | .00251 | .00178 |
| %RSD | .35607 | .20485 | 2.8363 | .13482 | .46660 | 1.6767 |
| #1 | .21537 | .40204 | .45823 | .10893 | .53593 | .10722 |
| #2 | .21646 | .40087 | .44021 | .10914 | .53948 | .10470 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8829.5** | **109630.** | **9711.0** |
| Stddev | 12.8 | 1. | 72.6 |
| %RSD | .14452 | .00091 | .74770 |
| #1 | 8820.4 | 109630. | 9659.6 |
| #2 | 8838.5 | 109630. | 9762.3 |

Sample Name: 280-45178-b-2-c  Acquired: 8/14/2013 18:44:15  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.15540** | **.00492** | **.00994** | **.00950** | **-.00002** | **-.00096** | **16.095** | **.00059** | **.00002** |
| Stddev | .00023 | .00038 | .00014 | .00020 | .00003 | .00012 | .00250 | .103 | .00016 | .00012 |
| %RSD | 54.794 | .24533 | 2.7790 | 1.9975 | .29394 | 576.61 | 259.56 | .63844 | 27.675 | 544.80 |
| #1 | .00059 | .15513 | .00501 | .01008 | .00952 | -.00011 | .00081 | 16.167 | .00047 | .00011 |
| #2 | .00026 | .15566 | .00482 | .00980 | .00948 | .00007 | -.00273 | 16.022 | .00071 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6562** | **.01994** | **.12021** | **4.7459** | **.00021** | **.56992** | **.00599** | **.00040** | **270.54** | **.00049** |
| Stddev | .0010 | .00034 | .00077 | .0795 | .00387 | .00341 | .00002 | .00009 | 1.57 | .00010 |
| %RSD | .06062 | 1.6817 | .63943 | 1.6743 | 1883.0 | .59825 | .37849 | 21.788 | .58142 | 19.659 |
| #1 | 1.6555 | .01970 | .12075 | 4.8021 | .00294 | .57234 | .00601 | .00034 | 271.66 | .00056 |
| #2 | 1.6569 | .02017 | .11966 | 4.6897 | -.00253 | .56751 | .00597 | .00046 | 269.43 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04053** | **.01940** | **.92455** | **.00230** | **.00474** | **.09534** | **.20404** | **.00019** | **.03395** | **-.00138** |
| Stddev | .00055 | .00052 | .00225 | .00110 | .00079 | .00834 | .01784 | .00044 | .00015 | .00052 |
| %RSD | 1.3655 | 2.6960 | .24291 | 47.976 | 16.650 | 8.7434 | 8.7434 | 229.59 | .44674 | 37.872 |
| #1 | .04014 | .01903 | .92297 | .00308 | .00530 | .08945 | .19142 | .00050 | .03406 | -.00101 |
| #2 | .04092 | .01977 | .92614 | .00152 | .00419 | .10124 | .21665 | -.00012 | .03385 | -.00175 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **-.00003** | **.04515** | **.00084** | **3.8013** | **-.00048** |
| Stddev | .00034 | .00038 | .01700 | .00020 | .0107 | .00041 |
| %RSD | 75.426 | 1458.8 | 37.651 | 24.181 | .28121 | 85.385 |
| #1 | .00021 | .00024 | .03313 | .00069 | 3.8089 | -.00077 |
| #2 | .00068 | -.00029 | .05717 | .00098 | 3.7938 | -.00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8953.2** | **112180.** | **10043.** |
| Stddev | 28.8 | 969. | 42. |
| %RSD | .32219 | .86409 | .41999 |
| #1 | 8973.6 | 111490. | 10013. |
| #2 | 8932.8 | 112860. | 10073. |

Sample Name: 280-45178-b-3-c  Acquired: 8/14/2013 18:46:35  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.02682** | **.02542** | **.01126** | **.09444** | **-.00004** | **-.00159** | **14.466** | **.00390** | **.00039** |
| Stddev | .00019 | .00044 | .00447 | .00038 | .00054 | .00002 | .00193 | .062 | .00015 | .00014 |
| %RSD | 534.80 | 1.6363 | 17.562 | 3.3603 | .57300 | 45.686 | 121.27 | .42774 | 3.8289 | 35.153 |
| #1 | -.00010 | .02651 | .02858 | .01099 | .09482 | -.00002 | -.00296 | 14.510 | .00379 | .00049 |
| #2 | .00017 | .02713 | .02227 | .01152 | .09405 | -.00005 | -.00023 | 14.422 | .00401 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **26.703** | **.01494** | **.01448** | **12.703** | **.00078** | **1.5560** | **.02036** | **.00149** | **295.52** | **.00062** |
| Stddev | .009 | .00050 | .00168 | .044 | .00117 | .0012 | .00009 | .00020 | 1.40 | .00016 |
| %RSD | .03367 | 3.3281 | 11.600 | .34252 | 150.81 | .07643 | .46004 | 13.385 | .47259 | 26.100 |
| #1 | 26.709 | .01459 | .01567 | 12.734 | -.00005 | 1.5569 | .02030 | .00163 | 296.51 | .00074 |
| #2 | 26.696 | .01529 | .01329 | 12.672 | .00161 | 1.5552 | .02043 | .00135 | 294.53 | .00051 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11531** | **.00099** | **.96248** | **.01559** | **.00235** | **.13779** | **.29487** | **.00000** | **.22945** | **.00222** |
| Stddev | .00017 | .00115 | .00157 | .00257 | .00128 | .02680 | .05734 | .0001 | .00107 | .00025 |
| %RSD | .14738 | 115.60 | .16306 | 16.510 | 54.626 | 19.446 | 19.446 | 2661.3 | .46588 | 11.241 |
| #1 | .11519 | .00018 | .96137 | .01377 | .00144 | .15674 | .33542 | -.00010 | .23020 | .00240 |
| #2 | .11543 | .00180 | .96359 | .01741 | .00326 | .11884 | .25433 | .00009 | .22869 | .00205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00132** | **-.00343** | **-.01305** | **.00765** | W **35.116** | **-.00226** |
| Stddev | .00007 | .00048 | .03839 | .00041 | .028 | .00021 |
| %RSD | 5.4854 | 14.058 | 294.25 | 5.3911 | .08023 | 9.2684 |
| #1 | .00127 | -.00377 | .01410 | .00736 | 35.136 | -.00241 |
| #2 | .00138 | -.00309 | -.04019 | .00794 | 35.096 | -.00211 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 10.000 | |
| Low Limit | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8530.9** | **110100.** | **9911.5** |
| Stddev | 10.7 | 148. | 8.5 |
| %RSD | .12573 | .13450 | .08540 |
| #1 | 8538.5 | 110210. | 9917.5 |
| #2 | 8523.3 | 110000. | 9905.6 |

Sample Name: 280-45219-a-1-d  Acquired: 8/14/2013 18:48:57  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **2.0945** | **.01088** | **.87070** | **.30855** | **.00047** | **-.00849** | **61.538** | **.00151** | **.02269** |
| Stddev | .00033 | .0003 | .00181 | .00110 | .00098 | .00002 | .00007 | .109 | .00013 | .00002 |
| %RSD | 159.89 | .01537 | 16.649 | .12691 | .31744 | 5.0947 | .78660 | .17714 | 8.6880 | .09810 |
| #1 | .00044 | 2.0943 | .00960 | .87149 | .30924 | .00049 | -.00844 | 61.615 | .00160 | .02271 |
| #2 | -.00003 | 2.0947 | .01216 | .86992 | .30785 | .00045 | -.00854 | 61.461 | .00142 | .02268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02326** | **.15093** | **5.1799** | **19.362** | **.02795** | **1.7925** | **.69838** | **.08364** | W **693.39** | W **31.843** |
| Stddev | .00020 | .00021 | .0176 | .024 | .00433 | .0034 | .00012 | .00025 | 1.10 | .043 |
| %RSD | .88096 | .14175 | .33968 | .12135 | 15.475 | .18750 | .01773 | .30131 | .15862 | .13662 |
| #1 | .02311 | .15108 | 5.1675 | 19.379 | .03101 | 1.7901 | .69846 | .08382 | 694.17 | 31.874 |
| #2 | .02340 | .15078 | 5.1924 | 19.346 | .02489 | 1.7949 | .69829 | .08346 | 692.62 | 31.812 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn |
| High Limit | | | | | | | | | 500.00 | 10.000 |
| Low Limit | | | | | | | | | 11.000 | -.01000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **325.80** | **.19745** | **162.66** | **.00951** | **.00271** | **6.8965** | **14.758** | **.51703** | **.10640** | **-.00358** |
| Stddev | .71 | .00152 | .07 | .00125 | .00060 | .0646 | .138 | .00220 | .00026 | .00084 |
| %RSD | .21929 | .76977 | .04010 | 13.201 | 22.056 | .93653 | .93653 | .42518 | .24510 | 23.399 |
| #1 | 326.31 | .19853 | 162.61 | .01039 | .00313 | 6.8508 | 14.661 | .51859 | .10658 | -.00417 |
| #2 | 325.30 | .19638 | 162.71 | .00862 | .00229 | 6.9421 | 14.856 | .51548 | .10622 | -.00299 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -2.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04333** | **-.00112** | W **-.09790** | **.00951** | **9.2520** | **.00671** |
| Stddev | .00041 | .00037 | .02506 | .00001 | .0298 | .00032 |
| %RSD | .95558 | 32.564 | 25.596 | .12367 | .32209 | 4.7495 |
| #1 | .04362 | -.00138 | -.08018 | .00952 | 9.2730 | .00694 |
| #2 | .04304 | -.00086 | -.11562 | .00951 | 9.2309 | .00649 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8583.2** | **106160.** | **9735.5** |
| Stddev | 11.1 | 200. | 30.7 |
| %RSD | .12984 | .18845 | .31542 |
| #1 | 8575.3 | 106020. | 9757.2 |
| #2 | 8591.1 | 106300. | 9713.7 |

Sample Name: 280-45219-a-2-d  Acquired: 8/14/2013 18:51:11  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **2.1155** | **.01282** | **.86941** | **.27316** | **.00013** | **-.01061** | **76.209** | **.00040** | **.02529** |
| Stddev | .00013 | .0017 | .00033 | .00054 | .00119 | .00001 | .00210 | .317 | .00008 | .00006 |
| %RSD | 104.59 | .07957 | 2.6023 | .06162 | .43532 | 10.157 | 19.813 | .41621 | 18.990 | .24669 |
| #1 | -.00003 | 2.1143 | .01259 | .86903 | .27400 | .00012 | -.00912 | 76.433 | .00045 | .02533 |
| #2 | -.00022 | 2.1167 | .01306 | .86978 | .27232 | .00014 | -.01209 | 75.985 | .00034 | .02524 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09395** | **.02959** | **6.1768** | **8.5485** | **.00833** | **1.3399** | **.25290** | **.03692** | W **832.47** | W **40.705** |
| Stddev | .00051 | .00016 | .0052 | .0186 | .00001 | .0011 | .00031 | .00003 | 3.35 | .020 |
| %RSD | .54330 | .53788 | .08368 | .21758 | .06412 | .07982 | .12232 | .07996 | .40217 | .04905 |
| #1 | .09431 | .02948 | 6.1804 | 8.5354 | .00834 | 1.3407 | .25312 | .03695 | 834.84 | 40.719 |
| #2 | .09359 | .02971 | 6.1731 | 8.5617 | .00833 | 1.3392 | .25268 | .03690 | 830.10 | 40.691 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn |
| High Limit | | | | | | | | | 500.00 | 10.000 |
| Low Limit | | | | | | | | | 11.000 | -.01000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **392.52** | **.00607** | F **209.95** | **.15432** | **.00442** | **4.5106** | **9.6526** | **.23487** | **.33926** | **-.00417** |
| Stddev | .51 | .00056 | .33 | .00108 | .00055 | .0145 | .0311 | .00007 | .00202 | .00188 |
| %RSD | .12931 | 9.1698 | .15593 | .69971 | 12.429 | .32178 | .32178 | .02901 | .59520 | 45.023 |
| #1 | 392.88 | .00568 | 209.72 | .15356 | .00403 | 4.5003 | 9.6306 | .23491 | .34069 | -.00285 |
| #2 | 392.16 | .00647 | 210.18 | .15509 | .00481 | 4.5208 | 9.6746 | .23482 | .33783 | -.00550 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | 200.00 | | | | | | | |
| Low Limit | -2.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04711** | **-.00051** | W **-.08291** | **.01035** | **6.7136** | **.01074** |
| Stddev | .00026 | .00114 | .00763 | .00001 | .0332 | .00089 |
| %RSD | .55643 | 224.04 | 9.1994 | .12320 | .49456 | 8.3233 |
| #1 | .04729 | .00030 | -.08830 | .01034 | 6.7371 | .01137 |
| #2 | .04692 | -.00131 | -.07752 | .01036 | 6.6901 | .01011 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8742.5** | **106870.** | **9687.5** |
| Stddev | 7.7 | 281. | 5.2 |
| %RSD | .08769 | .26301 | .05406 |
| #1 | 8737.1 | 106670. | 9683.8 |
| #2 | 8747.9 | 107060. | 9691.2 |

Sample Name: 280-45219-a-3-d  Acquired: 8/14/2013 18:53:26  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **1.2098** | **.00862** | **3.4658** | **.17149** | **.00012** | **-.00494** | **68.238** | **.00231** | **.03009** |
| Stddev | .00001 | .0019 | .00001 | .0043 | .00144 | .00004 | .00027 | .509 | .00011 | .00027 |
| %RSD | 8.9198 | .15452 | .08677 | .12459 | .84073 | 35.091 | 5.3976 | .74571 | 4.6599 | .91251 |
| #1 | -.00017 | 1.2085 | .00863 | 3.4627 | .17251 | .00015 | -.00475 | 68.598 | .00223 | .02989 |
| #2 | -.00015 | 1.2111 | .00862 | 3.4688 | .17047 | .00009 | -.00513 | 67.878 | .00238 | .03028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12417** | **.10457** | **5.3920** | **13.738** | **.01339** | **2.2380** | **.37251** | **.20243** | W **587.96** | W **20.442** |
| Stddev | .00019 | .00037 | .0392 | .118 | .00135 | .0011 | .00008 | .00076 | 4.88 | .024 |
| %RSD | .15520 | .35626 | .72771 | .85991 | 10.093 | .05089 | .02166 | .37535 | .82952 | .11612 |
| #1 | .12430 | .10484 | 5.4198 | 13.822 | .01434 | 2.2388 | .37246 | .20297 | 591.41 | 20.426 |
| #2 | .12403 | .10431 | 5.3643 | 13.655 | .01243 | 2.2372 | .37257 | .20190 | 584.51 | 20.459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn |
| High Limit | | | | | | | | | 500.00 | 10.000 |
| Low Limit | | | | | | | | | 11.000 | -.01000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **229.42** | **.10226** | **114.01** | **.07010** | **.01051** | **5.0526** | **10.812** | **.14640** | **.17802** | **-.00499** |
| Stddev | .33 | .00011 | .18 | .00064 | .00168 | .0592 | .127 | .00027 | .00145 | .00092 |
| %RSD | .14317 | .10953 | .15727 | .91208 | 15.957 | 1.1718 | 1.1718 | .18147 | .81387 | 18.355 |
| #1 | 229.19 | .10234 | 113.88 | .06965 | .00932 | 5.0944 | 10.902 | .14621 | .17905 | -.00434 |
| #2 | 229.65 | .10218 | 114.13 | .07055 | .01169 | 5.0107 | 10.723 | .14659 | .17700 | -.00564 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -2.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03022** | **.00018** | **.01360** | **.02347** | **8.1250** | **.00116** |
| Stddev | .00129 | .00068 | .02914 | .00006 | .0212 | .00093 |
| %RSD | 4.2681 | 386.30 | 214.29 | .23606 | .26134 | 80.222 |
| #1 | .02930 | -.00031 | -.00701 | .02350 | 8.1400 | .00182 |
| #2 | .03113 | .00066 | .03421 | .02343 | 8.1099 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8835.5** | **110220.** | **10247.** |
| Stddev | 27.8 | 64. | 130. |
| %RSD | .31451 | .05850 | 1.2639 |
| #1 | 8855.1 | 110170. | 10156. |
| #2 | 8815.8 | 110260. | 10339. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 18:55:44 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **49.914** | **.00291** | **.00937** | **.00076** | **-.00004** | **1.0185** | **-.00570** | **.00023** | **.00035** | **-.00002** | **.00207** | **48.988** |
| Stddev | .00009 | .244 | .00242 | .00068 | .00023 | .00001 | .0011 | .00289 | .00030 | .00032 | .00011 | .00004 | .577 |
| %RSD | 11.224 | .48854 | 83.185 | 7.2669 | 30.213 | 20.643 | .10663 | 50.690 | 134.54 | 91.581 | 480.95 | 1.8452 | 1.1771 |
| #1 | .00075 | 49.741 | .00462 | .00986 | .00093 | -.00003 | 1.0192 | -.00366 | .00044 | .00058 | .00005 | .00210 | 48.580 |
| #2 | .00088 | 50.086 | .00120 | .00889 | .00060 | -.00004 | 1.0177 | -.00775 | .00001 | .00012 | -.00010 | .00204 | 49.395 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41159** | **.00360** | **-.00758** | **.00000** | **.00023** | **249.08** | **.00142** | **.01958** | **.00179** | **5.2111** | **.00115** | **.00122** | **.03796** |
| Stddev | .01616 | .00296 | .00192 | .00003 | .00046 | .91 | .00005 | .00010 | .00121 | .0025 | .00126 | .00235 | .00753 |
| %RSD | 3.9268 | 82.165 | 25.318 | 665.56 | 203.46 | .36489 | 3.5423 | .50309 | 67.393 | .04727 | 109.13 | 191.95 | 19.848 |
| #1 | .42301 | .00151 | -.00893 | -.00002 | -.00010 | 248.44 | .00138 | .01965 | .00094 | 5.2129 | .00204 | .00288 | .04329 |
| #2 | .40016 | .00569 | -.00622 | .00003 | .00055 | 249.72 | .00145 | .01951 | .00265 | 5.2094 | .00026 | -.00044 | .03263 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08124** | **.00042** | **.00034** | **4.9346** | **-.00066** | **.00034** | **10.062** | **.00134** | **.00077** | **.02433** |
| Stddev | .01612 | .00037 | .00002 | .0163 | .00005 | .00153 | .005 | .00022 | .00047 | .00186 |
| %RSD | 19.848 | 87.804 | 6.9754 | .33010 | 7.5663 | 450.16 | .04584 | 16.310 | 61.345 | 7.6458 |
| #1 | .09264 | .00016 | .00033 | 4.9230 | -.00062 | -.00074 | 10.065 | .00118 | .00044 | .02302 |
| #2 | .06983 | .00068 | .00036 | 4.9461 | -.00069 | .00143 | 10.059 | .00149 | .00110 | .02565 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9237.8** | **116190.** | **10283.** |
| Stddev | 33.1 | 209. | 15. |
| %RSD | .35861 | .17977 | .14532 |
| #1 | 9261.2 | 116340. | 10273. |
| #2 | 9214.4 | 116050. | 10294. |

Sample Name: CCV-2194461 Acquired: 8/14/2013 18:58:06 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49772** | **.52450** | **.98023** | **.50146** | **.47955** | **.49370** | **.00110** | **4.9397** | **.50169** | **.50791** | **.49404** | **.50724** | **2.4782** |
| Stddev | .00044 | .00173 | .00140 | .00076 | .00015 | .00048 | .00448 | .0020 | .00030 | .00030 | .00016 | .00024 | .0123 |
| %RSD | .08847 | .32920 | .14289 | .15150 | .03140 | .09635 | 405.93 | .04094 | .05940 | .06000 | .03323 | .04663 | .49632 |
| #1 | .49741 | .52328 | .97924 | .50092 | .47945 | .49336 | .00427 | 4.9383 | .50147 | .50769 | .49415 | .50707 | 2.4869 |
| #2 | .49804 | .52572 | .98122 | .50200 | .47966 | .49403 | -.00206 | 4.9411 | .50190 | .50812 | .49392 | .50741 | 2.4695 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.375** | **.97862** | **19.286** | **.50340** | **.48940** | **5.3075** | **.50105** | **.99951** | **1.0090** | **.03701** | **1.0298** | **.99406** | **4.9730** |
| Stddev | .063 | .00423 | .005 | .00049 | .00042 | .0157 | .00114 | .00823 | .0009 | .00071 | .0009 | .00310 | .0365 |
| %RSD | .12847 | .43197 | .02621 | .09648 | .08577 | .29554 | .22659 | .82329 | .09260 | 1.9091 | .08957 | .31211 | .73302 |
| #1 | 49.420 | .98161 | 19.290 | .50375 | .48969 | 5.3186 | .50025 | .99370 | 1.0096 | .03651 | 1.0304 | .99625 | 4.9472 |
| #2 | 49.330 | .97563 | 19.283 | .50306 | .48910 | 5.2964 | .50185 | 1.0053 | 1.0083 | .03751 | 1.0291 | .99186 | 4.9987 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.642** | **.98462** | **.49902** | **-.00563** | **.50729** | **1.0391** | **.04668** | **.49985** | **.48553** | **.50478** |
| Stddev | .078 | .00393 | .00018 | .00105 | .00156 | .0021 | .03346 | .00072 | .00140 | .00433 |
| %RSD | .73302 | .39944 | .03605 | 18.623 | .30694 | .20082 | 71.695 | .14488 | .28806 | .85756 |
| #1 | 10.587 | .98184 | .49914 | -.00637 | .50839 | 1.0377 | .07034 | .50036 | .48652 | .50172 |
| #2 | 10.697 | .98740 | .49889 | -.00489 | .50619 | 1.0406 | .02301 | .49934 | .48455 | .50784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9312.2** | **118230.** | **10152.** |
| Stddev | 6.6 | 147. | 43. |
| %RSD | .07079 | .12407 | .42139 |
| #1 | 9316.9 | 118130. | 10121. |
| #2 | 9307.5 | 118330. | 10182. |

Sample Name: CCB Acquired: 8/14/2013 19:00:12 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **-.00032** | **.00123** | **.00413** | **-.00026** | **.00001** | **-.00053** | **-.00177** | **-.00014** | **.00028** | **-.00015** | **-.00079** | **.00248** |
| Stddev | .00048 | .00009 | .00228 | .00066 | .00022 | .00004 | .00081 | .00123 | .00015 | .00024 | .00006 | .00004 | .00095 |
| %RSD | 985.81 | 26.983 | 184.96 | 15.913 | 84.011 | 364.88 | 153.24 | 69.425 | 103.16 | 87.630 | 37.126 | 5.5278 | 38.250 |
| #1 | -.00029 | -.00038 | .00284 | .00459 | -.00011 | .00004 | -.00110 | -.00264 | -.00025 | .00045 | -.00011 | -.00076 | .00181 |
| #2 | .00039 | -.00026 | -.00038 | .00366 | -.00042 | -.00002 | .00004 | -.00090 | -.00004 | .00011 | -.00019 | -.00082 | .00315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17184** | **-.00165** | **.00153** | **.00005** | **.00065** | F **.18540** | **.00012** | **.00493** | **-.00056** | **.01838** | **.00219** | **.00440** | **.01656** |
| Stddev | .09285 | .00049 | .00392 | .00004 | .00036 | .00599 | .00000 | .00039 | .00016 | .00203 | .00039 | .00053 | .00511 |
| %RSD | 54.035 | 29.872 | 255.55 | 86.222 | 56.177 | 3.2296 | 3.6175 | 7.9298 | 28.820 | 11.071 | 18.001 | 12.017 | 30.838 |
| #1 | .23750 | -.00200 | -.00124 | .00002 | .00039 | .18963 | .00012 | .00465 | -.00045 | .01694 | .00191 | .00402 | .02017 |
| #2 | .10618 | -.00130 | .00430 | .00008 | .00090 | .18116 | .00011 | .00521 | -.00068 | .01982 | .00246 | .00477 | .01295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .18320 | | | | | | | |
| Low Limit | | | | | | -.18320 | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03544** | **.00063** | **.00004** | **.00214** | **.00037** | **-.00115** | **-.00958** | **.00037** | **.00150** | **-.00134** |
| Stddev | .01093 | .00048 | .00007 | .00024 | .00021 | .00041 | .00959 | .00046 | .00019 | .00156 |
| %RSD | 30.838 | 76.521 | 182.56 | 11.233 | 57.295 | 35.491 | 100.08 | 126.01 | 12.901 | 116.02 |
| #1 | .04317 | .00029 | .00009 | .00231 | .00052 | -.00086 | -.00280 | .00070 | .00164 | -.00024 |
| #2 | .02771 | .00097 | -.00001 | .00197 | .00022 | -.00143 | -.01637 | .00004 | .00136 | -.00244 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9306.4** | **120410.** | **9950.8** |
| Stddev | 9.5 | 175. | 66.3 |
| %RSD | .10199 | .14511 | .66590 |
| #1 | 9313.1 | 120530. | 9997.7 |
| #2 | 9299.7 | 120280. | 9904.0 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 19:02:29 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00986** | **.10625** | **.01376** | **.09622** | **.00949** | **.00099** | **.10534** | **.20291** | **.00497** | **.01080** | **.01012** | **.01505** | **.09978** | **3.1786** |
| Stddev | .00005 | .00006 | .00132 | .00050 | .00013 | .00003 | .00016 | .00254 | .00011 | .00008 | .00021 | .00019 | .00049 | .0471 |
| %RSD | .46854 | .05487 | 9.5589 | .51493 | 1.3260 | 2.9302 | .14804 | 1.2512 | 2.1453 | .72805 | 2.0712 | 1.2882 | .49259 | 1.4833 |
| #1 | .00989 | .10621 | .01469 | .09657 | .00958 | .00101 | .10523 | .20111 | .00504 | .01086 | .01027 | .01518 | .09943 | 3.2119 |
| #2 | .00983 | .10629 | .01283 | .09587 | .00940 | .00097 | .10545 | .20470 | .00489 | .01075 | .00997 | .01491 | .10013 | 3.1453 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01130** | **.19937** | **.01038** | **.01925** | **1.1876** | **.04108** | **2.7665** | **.00914** | **.01601** | **.01082** | **.01701** | **.48000** | **1.0272** | **.09882** |
| Stddev | .00418 | .00226 | .00001 | .00023 | .0116 | .00014 | .0210 | .00035 | .00331 | .00011 | .00155 | .00148 | .0032 | .00106 |
| %RSD | 37.001 | 1.1351 | .06910 | 1.1791 | .97404 | .34299 | .75728 | 3.8126 | 20.653 | 1.0077 | 9.1012 | .30867 | .30867 | 1.0760 |
| #1 | .00834 | .19777 | .01037 | .01909 | 1.1794 | .04118 | 2.7813 | .00938 | .01367 | .01090 | .01810 | .48105 | 1.0294 | .09957 |
| #2 | .01425 | .20097 | .01038 | .01941 | 1.1958 | .04098 | 2.7517 | .00889 | .01835 | .01074 | .01591 | .47896 | 1.0250 | .09807 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01018** | **.01473** | **.01038** | **.01525** | **.07636** | **.01051** | **.02067** | **.01455** |
| Stddev | .00010 | .00010 | .00006 | .00058 | .03212 | .00015 | .00073 | .00049 |
| %RSD | .96160 | .67685 | .58186 | 3.8238 | 42.056 | 1.3864 | 3.5185 | 3.3606 |
| #1 | .01011 | .01480 | .01034 | .01484 | .05365 | .01061 | .02015 | .01420 |
| #2 | .01025 | .01466 | .01043 | .01566 | .09907 | .01041 | .02118 | .01489 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9313.7** | **119190.** | **9974.2** |
| Stddev | 11.3 | 63. | 44.7 |
| %RSD | .12079 | .05319 | .44798 |
| #1 | 9305.8 | 119240. | 9942.6 |
| #2 | 9321.7 | 119150. | 10006. |

Sample Name: 280-45219-a-4-d  Acquired: 8/14/2013 19:04:47  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.37008** | **.00481** | **1.1691** | **.10524** | **.00004** | **.00546** | **5.6244** | **.00392** | **.08497** |
| Stddev | .00040 | .00015 | .00115 | .0017 | .00011 | .00001 | .00072 | .0088 | .00001 | .00043 |
| %RSD | 62.517 | .04149 | 23.917 | .14736 | .10919 | 23.809 | 13.210 | .15710 | .28901 | .50043 |
| #1 | .00036 | .36997 | .00399 | 1.1678 | .10516 | .00003 | .00597 | 5.6307 | .00391 | .08527 |
| #2 | .00093 | .37019 | .00562 | 1.1703 | .10532 | .00004 | .00495 | 5.6182 | .00393 | .08467 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06967** | **.58136** | **2.5594** | **2.9422** | **.02655** | **1.2004** | **.09219** | **.03948** | **345.86** | **.64398** |
| Stddev | .00040 | .00162 | .0024 | .0030 | .00354 | .0001 | .00011 | .00032 | .02 | .00039 |
| %RSD | .56907 | .27831 | .09463 | .10327 | 13.316 | .00505 | .12100 | .81395 | .00480 | .06130 |
| #1 | .06995 | .58251 | 2.5577 | 2.9401 | .02905 | 1.2004 | .09211 | .03970 | 345.85 | .64426 |
| #2 | .06939 | .58022 | 2.5611 | 2.9444 | .02405 | 1.2005 | .09227 | .03925 | 345.87 | .64370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.976** | **.02663** | **8.9765** | **.01585** | **.00430** | **4.3425** | **9.2929** | **.00847** | **.04342** | **-.00155** |
| Stddev | .010 | .00064 | .0459 | .00074 | .00288 | .0406 | .0869 | .00038 | .00010 | .00124 |
| %RSD | .09258 | 2.3906 | .51110 | 4.6567 | 66.948 | .93545 | .93545 | 4.5096 | .22130 | 80.022 |
| #1 | 10.969 | .02618 | 9.0089 | .01637 | .00634 | 4.3138 | 9.2314 | .00820 | .04335 | -.00242 |
| #2 | 10.983 | .02708 | 8.9440 | .01533 | .00227 | 4.3712 | 9.3544 | .00874 | .04349 | -.00067 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01580** | **-.00103** | **-.00803** | **.00396** | **5.5431** | **.00210** |
| Stddev | .00099 | .00070 | .05086 | .00001 | .0044 | .00203 |
| %RSD | 6.2824 | 68.319 | 633.27 | .24668 | .07897 | 96.723 |
| #1 | .01651 | -.00053 | .02793 | .00395 | 5.5462 | .00353 |
| #2 | .01510 | -.00152 | -.04399 | .00396 | 5.5400 | .00066 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8860.5** | **111570.** | **9936.6** |
| Stddev | 2.1 | 18. | 23.4 |
| %RSD | .02357 | .01622 | .23555 |
| #1 | 8859.0 | 111560. | 9953.2 |
| #2 | 8862.0 | 111590. | 9920.1 |

Sample Name: 280-45219-a-5-e  Acquired: 8/14/2013 19:07:05  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **1.4280** | **.00795** | **4.7435** | **.05322** | **.00471** | **-.00544** | **22.508** | **.04079** | **.02439** |
| Stddev | .00038 | .0018 | .00113 | .0094 | .00020 | .00004 | .00308 | .075 | .00014 | .00010 |
| %RSD | 202.63 | .12853 | 14.188 | .19711 | .37967 | .89117 | 56.525 | .33434 | .34995 | .42248 |
| #1 | -.00008 | 1.4293 | .00875 | 4.7369 | .05307 | .00468 | -.00762 | 22.455 | .04069 | .02431 |
| #2 | .00045 | 1.4267 | .00715 | 4.7501 | .05336 | .00474 | -.00327 | 22.561 | .04089 | .02446 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33585** | **1.6498** | **9.2268** | **4.9414** | **.01100** | **1.7562** | **.43739** | **.97946** | W **583.72** | W **47.659** |
| Stddev | .00004 | .0006 | .0203 | .0666 | .00003 | .0059 | .00020 | .00055 | 1.73 | .045 |
| %RSD | .01229 | .03799 | .22023 | 1.3479 | .26567 | .33729 | .04575 | .05578 | .29706 | .09533 |
| #1 | .33582 | 1.6494 | 9.2125 | 4.8943 | .01098 | 1.7520 | .43725 | .97907 | 582.50 | 47.627 |
| #2 | .33588 | 1.6503 | 9.2412 | 4.9885 | .01102 | 1.7604 | .43753 | .97985 | 584.95 | 47.692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn |
| High Limit | | | | | | | | | 500.00 | 10.000 |
| Low Limit | | | | | | | | | 11.000 | -.01000 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **317.91** | **.24917** | **171.76** | **.00382** | **.01260** | **3.6136** | **7.7332** | **.13761** | **.10428** | **-.00549** |
| Stddev | .51 | .00002 | .20 | .00109 | .00236 | .0169 | .0362 | .00026 | .00030 | .00356 |
| %RSD | .16061 | .00734 | .11490 | 28.470 | 18.755 | .46799 | .46799 | .18979 | .28447 | 64.859 |
| #1 | 317.55 | .24919 | 171.63 | .00459 | .01093 | 3.6017 | 7.7076 | .13780 | .10408 | -.00801 |
| #2 | 318.27 | .24916 | 171.90 | .00305 | .01427 | 3.6256 | 7.7588 | .13743 | .10449 | -.00297 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -2.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01626** | **-.00074** | **.03675** | **.00784** | **4.0634** | **-.00110** |
| Stddev | .00033 | .00122 | .03073 | .00038 | .0021 | .00370 |
| %RSD | 2.0165 | 164.55 | 83.599 | 4.7833 | .05068 | 336.25 |
| #1 | .01650 | -.00160 | .01503 | .00757 | 4.0620 | -.00372 |
| #2 | .01603 | .00012 | .05848 | .00811 | 4.0649 | .00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8832.3** | **108600.** | **9942.7** |
| Stddev | 12.7 | 33. | 50.1 |
| %RSD | .14324 | .02996 | .50376 |
| #1 | 8841.3 | 108620. | 9978.1 |
| #2 | 8823.4 | 108580. | 9907.3 |

Sample Name: 280-45219-a-6-d  Acquired: 8/14/2013 19:09:21  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **.06955** | **.00794** | **.27610** | **.22663** | **.00000** | **.00218** | **78.362** | **.00253** | **.00375** |
| Stddev | .00011 | .00006 | .00063 | .00033 | .00090 | .00005 | .00221 | .295 | .00002 | .00016 |
| %RSD | 54.732 | .08148 | 7.9792 | .12046 | .39606 | 1982.8 | 101.31 | .37709 | .84134 | 4.3970 |
| #1 | -.00029 | .06959 | .00838 | .27634 | .22600 | -.00004 | .00374 | 78.153 | .00254 | .00363 |
| #2 | -.00013 | .06951 | .00749 | .27587 | .22727 | .00004 | .00062 | 78.571 | .00251 | .00386 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.01545** | **.36590** | **3.4038** | **.00550** | **.90396** | **.05379** | **.03458** | **300.16** | **.07654** |
| Stddev | .00001 | .00011 | .00114 | .0216 | .00012 | .00199 | .00010 | .00025 | 1.09 | .00002 |
| %RSD | 2.0883 | .68235 | .31074 | .63538 | 2.2148 | .22061 | .17814 | .73541 | .36227 | .02481 |
| #1 | .00056 | .01552 | .36510 | 3.3885 | .00559 | .90255 | .05372 | .03440 | 299.39 | .07653 |
| #2 | .00058 | .01537 | .36671 | 3.4191 | .00541 | .90537 | .05385 | .03476 | 300.92 | .07656 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.81756** | **.00216** | **5.2217** | **.00258** | **.00401** | **.34155** | **.73092** | **.00140** | **.04733** | **.00053** |
| Stddev | .00157 | .00007 | .0200 | .00055 | .00133 | .01307 | .02797 | .00101 | .00025 | .00172 |
| %RSD | .19173 | 3.3093 | .38298 | 21.125 | 33.236 | 3.8260 | 3.8260 | 72.323 | .53313 | 326.09 |
| #1 | .81645 | .00221 | 5.2358 | .00297 | .00495 | .33231 | .71115 | .00068 | .04715 | .00175 |
| #2 | .81867 | .00211 | 5.2075 | .00220 | .00307 | .35079 | .75069 | .00211 | .04751 | -.00069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **-.00155** | W **-.07512** | **.00176** | **3.5020** | **.00026** |
| Stddev | .00014 | .00019 | .03318 | .00028 | .0110 | .00165 |
| %RSD | 16.061 | 12.296 | 44.165 | 15.820 | .31426 | 644.08 |
| #1 | .00080 | -.00141 | -.09858 | .00156 | 3.4943 | .00142 |
| #2 | .00100 | -.00168 | -.05166 | .00195 | 3.5098 | -.00091 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8924.4** | **111980.** | **10210.** |
| Stddev | 18.1 | 242. | 7. |
| %RSD | .20245 | .21610 | .06915 |
| #1 | 8937.2 | 112150. | 10205. |
| #2 | 8911.7 | 111810. | 10215. |

Sample Name: 280-45219-a-6-dSD@5 Acquired: 8/14/2013 19:11:41 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.01920** | **.00409** | **.06099** | **.04560** | **-.00004** | **-.00095** | **15.604** | **.00055** | **.00094** |
| Stddev | .00009 | .00016 | .00095 | .00034 | .00003 | .00002 | .00280 | .053 | .00004 | .00023 |
| %RSD | 76.765 | .83592 | 23.319 | .56151 | .07021 | 51.119 | 295.74 | .33797 | 6.6645 | 24.081 |
| #1 | .00018 | .01931 | .00477 | .06123 | .04558 | -.00005 | .00103 | 15.567 | .00057 | .00078 |
| #2 | .00005 | .01909 | .00342 | .06075 | .04563 | -.00002 | -.00293 | 15.642 | .00052 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00316** | **.07748** | **.80717** | **.00293** | **.18748** | **.01068** | **.00679** | **60.627** | **.01539** |
| Stddev | .00005 | .00007 | .00136 | .04529 | .00152 | .00002 | .00009 | .00005 | .121 | .00024 |
| %RSD | 215.39 | 2.3686 | 1.7578 | 5.6110 | 51.902 | .01315 | .84595 | .71804 | .19960 | 1.5916 |
| #1 | -.00001 | .00321 | .07844 | .77515 | .00401 | .18746 | .01062 | .00676 | 60.541 | .01521 |
| #2 | .00006 | .00310 | .07651 | .83920 | .00186 | .18750 | .01075 | .00683 | 60.713 | .01556 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16394** | **-.00004** | **1.0404** | **.00220** | **.00270** | **.07305** | **.15634** | **.00050** | **.00942** | **-.00113** |
| Stddev | .00012 | .00003 | .0031 | .00024 | .00091 | .01038 | .02222 | .00021 | .00011 | .00045 |
| %RSD | .07173 | 74.581 | .29844 | 10.970 | 33.691 | 14.212 | 14.212 | 41.751 | 1.1862 | 39.842 |
| #1 | .16402 | -.00002 | 1.0382 | .00203 | .00334 | .08040 | .17205 | .00064 | .00950 | -.00145 |
| #2 | .16386 | -.00006 | 1.0426 | .00237 | .00205 | .06571 | .14063 | .00035 | .00934 | -.00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **-.00074** | **-.00082** | **.00075** | **.68733** | **-.00078** |
| Stddev | .00012 | .00019 | .01009 | .00030 | .00088 | .00029 |
| %RSD | 19.623 | 26.174 | 1234.5 | 40.122 | .12756 | 37.396 |
| #1 | .00051 | -.00061 | .00632 | .00054 | .68795 | -.00099 |
| #2 | .00067 | -.00088 | -.00795 | .00097 | .68671 | -.00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9419.8** | **120950.** | **10457.** |
| Stddev | 13.6 | 400. | 15. |
| %RSD | .14461 | .33096 | .14616 |
| #1 | 9410.2 | 120670. | 10468. |
| #2 | 9429.5 | 121230. | 10446. |

Sample Name: 280-45219-a-6-e ms  Acquired: 8/14/2013 19:14:00  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .16468 | .45073 | .80672 | .42489 | 2.4917 | .00962 | F .39548 | 77.818 | .22632 | .09920 |
| Stddev | .00054 | .00122 | .00514 | .00034 | .0038 | .00001 | .00145 | .070 | .00026 | .00002 |
| %RSD | .33080 | .27088 | .63759 | .08061 | .15076 | .14750 | .36712 | .08940 | .11703 | .02408 |
| #1 | .16507 | .44987 | .81036 | .42513 | 2.4944 | .00961 | .39651 | 77.868 | .22613 | .09922 |
| #2 | .16430 | .45159 | .80308 | .42465 | 2.4891 | .00963 | .39445 | 77.769 | .22651 | .09918 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0063 | .46924 | .51373 | 12.736 | .19603 | 9.7244 | .14331 | .22025 | 272.04 | .16089 |
| Stddev | .0004 | .00167 | .00035 | .004 | .00033 | .0131 | .00072 | .00015 | .72 | .00049 |
| %RSD | .04086 | .35641 | .06722 | .03382 | .16951 | .13493 | .50439 | .06884 | .26558 | .30630 |
| #1 | 1.0060 | .46806 | .51398 | 12.732 | .19626 | 9.7151 | .14280 | .22036 | 272.55 | .16054 |
| #2 | 1.0066 | .47042 | .51349 | 12.739 | .19579 | 9.7336 | .14382 | .22015 | 271.53 | .16124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 2.7151 | 1.0641 | 4.4494 | .09941 | .59294 | 2.1491 | 4.5990 | .37031 | .23456 | .18453 |
| Stddev | .0011 | .0003 | .0029 | .00005 | .00515 | .0046 | .0098 | .00075 | .00040 | .00117 |
| %RSD | .04162 | .02861 | .06486 | .04648 | .86895 | .21327 | .21327 | .20283 | .17086 | .63339 |
| #1 | 2.7143 | 1.0639 | 4.4515 | .09945 | .59658 | 2.1523 | 4.6059 | .37084 | .23485 | .18535 |
| #2 | 2.7159 | 1.0643 | 4.4474 | .09938 | .58929 | 2.1458 | 4.5920 | .36978 | .23428 | .18370 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .19997 | .36682 | .34059 | .10151 | 3.5163 | .09758 |
| Stddev | .00056 | .00123 | .02210 | .00013 | .0062 | .00101 |
| %RSD | .27982 | .33504 | 6.4897 | .12960 | .17749 | 1.0402 |
| #1 | .19958 | .36595 | .32496 | .10160 | 3.5207 | .09686 |
| #2 | .20037 | .36768 | .35622 | .10142 | 3.5119 | .09830 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8914.4 | 111520. | 10156. |
| Stddev | 14.8 | 16. | 38. |
| %RSD | .16622 | .01431 | .37615 |
| #1 | 8904.0 | 111530. | 10183. |
| #2 | 8924.9 | 111510. | 10129. |

Sample Name: 280-45219-a-6-f msd  Acquired: 8/14/2013 19:16:14  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .17327 | .47764 | .86520 | .45221 | 2.6427 | .01034 | F .42297 | 82.757 | .24132 | .10618 |
| Stddev | .00001 | .00206 | .00068 | .00002 | .0087 | .00002 | .00151 | .170 | .00056 | .00019 |
| %RSD | .00367 | .43034 | .07914 | .00463 | .32940 | .16618 | .35769 | .20553 | .23293 | .18160 |
| #1 | .17328 | .47619 | .86568 | .45219 | 2.6366 | .01035 | .42190 | 82.637 | .24172 | .10631 |
| #2 | .17327 | .47910 | .86471 | .45222 | 2.6489 | .01033 | .42404 | 82.877 | .24092 | .10604 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0715 | .49974 | .54842 | 13.674 | .20720 | 10.326 | .15242 | .23518 | 289.72 | .17171 |
| Stddev | .0001 | .00074 | .00316 | .050 | .00427 | .012 | .00028 | .00000 | 1.24 | .00008 |
| %RSD | .00655 | .14873 | .57610 | .36338 | 2.0605 | .11380 | .18056 | .00174 | .42968 | .04406 |
| #1 | 1.0714 | .49922 | .54619 | 13.638 | .20418 | 10.334 | .15261 | .23518 | 288.84 | .17165 |
| #2 | 1.0715 | .50027 | .55066 | 13.709 | .21022 | 10.317 | .15222 | .23518 | 290.60 | .17176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 2.8998 | 1.1334 | 4.7621 | .10514 | .63519 | 2.2695 | 4.8567 | .39490 | .25013 | .19933 |
| Stddev | .0008 | .0009 | .0029 | .00056 | .00380 | .0120 | .0257 | .00059 | .00055 | .00142 |
| %RSD | .02665 | .07898 | .06103 | .53599 | .59803 | .52917 | .52917 | .14889 | .22039 | .71172 |
| #1 | 2.9003 | 1.1327 | 4.7601 | .10475 | .63788 | 2.2610 | 4.8386 | .39448 | .24974 | .20033 |
| #2 | 2.8992 | 1.1340 | 4.7642 | .10554 | .63250 | 2.2780 | 4.8749 | .39531 | .25052 | .19832 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .21295 | .39106 | .32949 | .10787 | 3.7307 | .10511 |
| Stddev | .00044 | .00174 | .00972 | .00058 | .0040 | .00136 |
| %RSD | .20730 | .44514 | 2.9513 | .53528 | .10779 | 1.2942 |
| #1 | .21264 | .38983 | .32261 | .10746 | 3.7335 | .10607 |
| #2 | .21326 | .39229 | .33636 | .10828 | 3.7278 | .10415 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8944.0 | 112020. | 10221. |
| Stddev | 11.9 | 12. | 2. |
| %RSD | .13254 | .01034 | .02364 |
| #1 | 8952.4 | 112030. | 10219. |
| #2 | 8935.6 | 112020. | 10223. |

Sample Name: 280-45219-a-6-dPDS  Acquired: 8/14/2013 19:18:27  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04077** | **1.1041** | **.22250** | **.35531** | **.32295** | **.05206** | **-.00295** | **97.045** | **.05700** | **.05543** |
| Stddev | .00013 | .0016 | .00072 | .00067 | .00025 | .00004 | .00331 | .131 | .00002 | .00050 |
| %RSD | .33077 | .14602 | .32193 | .18842 | .07782 | .06926 | 112.47 | .13498 | .03652 | .90575 |
| #1 | .04067 | 1.1052 | .22199 | .35579 | .32277 | .05203 | -.00529 | 97.138 | .05701 | .05508 |
| #2 | .04086 | 1.1029 | .22301 | .35484 | .32313 | .05208 | -.00060 | 96.953 | .05698 | .05579 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05268** | **.06968** | **1.4017** | **24.474** | **.11159** | **20.143** | **.10443** | **.07980** | **314.46** | **.12452** |
| Stddev | .00018 | .00035 | .0034 | .005 | .00033 | .032 | .00037 | .00000 | .10 | .00015 |
| %RSD | .34646 | .50559 | .24102 | .01924 | .29357 | .16116 | .35870 | .00394 | .03169 | .12015 |
| #1 | .05255 | .06943 | 1.4041 | 24.470 | .11136 | 20.120 | .10417 | .07980 | 314.53 | .12441 |
| #2 | .05280 | .06993 | 1.3993 | 24.477 | .11182 | 20.166 | .10470 | .07981 | 314.39 | .12462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.9719** | **.10358** | **5.0588** | **.10173** | **.21788** | **5.1436** | **11.007** | **.09309** | **.09899** | **.20384** |
| Stddev | .0054 | .00092 | .0032 | .00048 | .00156 | .0418 | .089 | .00031 | .00006 | .00002 |
| %RSD | .18178 | .88882 | .06225 | .47520 | .71702 | .81182 | .81182 | .33500 | .05749 | .00856 |
| #1 | 2.9681 | .10423 | 5.0610 | .10208 | .21677 | 5.1141 | 10.944 | .09287 | .09903 | .20385 |
| #2 | 2.9757 | .10293 | 5.0566 | .10139 | .21898 | 5.1731 | 11.071 | .09331 | .09895 | .20383 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05076** | **.19567** | **.49344** | **.05531** | **3.5782** | **.05035** |
| Stddev | .00007 | .00042 | .01537 | .00023 | .0046 | .00193 |
| %RSD | .12862 | .21408 | 3.1150 | .41220 | .12771 | 3.8426 |
| #1 | .05071 | .19537 | .50431 | .05515 | 3.5750 | .05172 |
| #2 | .05081 | .19596 | .48257 | .05547 | 3.5815 | .04898 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8886.3** | **111880.** | **10235.** |
| Stddev | 10.1 | 91. | 89. |
| %RSD | .11419 | .08136 | .86479 |
| #1 | 8893.5 | 111820. | 10173. |
| #2 | 8879.1 | 111950. | 10298. |

Sample Name: 280-45219-a-7-i  Acquired: 8/14/2013 19:20:43  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186785 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.04348** | **.00106** | **3.2556** | **.16099** | **-.00002** | **-.00213** | **34.655** | **.00032** | **.00385** |
| Stddev | .00015 | .00024 | .00017 | .0017 | .00009 | .00002 | .00157 | .121 | .00018 | .00010 |
| %RSD | 63.670 | .55294 | 15.638 | .05166 | .05292 | 65.362 | 73.693 | .34777 | 57.103 | 2.4856 |
| #1 | .00013 | .04331 | .00095 | 3.2545 | .16093 | -.00004 | -.00324 | 34.570 | .00019 | .00392 |
| #2 | .00035 | .04365 | .00118 | 3.2568 | .16105 | -.00001 | -.00102 | 34.740 | .00045 | .00378 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00124** | **.00956** | **2.7224** | **3.7091** | **.02394** | **2.7053** | **.44732** | **.01105** | **139.88** | **.29508** |
| Stddev | .00008 | .00001 | .0142 | .0216 | .00113 | .0171 | .00166 | .00004 | .70 | .00041 |
| %RSD | 6.0900 | .10502 | .52115 | .58199 | 4.7017 | .63187 | .37148 | .33692 | .50190 | .13874 |
| #1 | .00118 | .00957 | 2.7124 | 3.6939 | .02474 | 2.7174 | .44849 | .01107 | 139.38 | .29479 |
| #2 | .00129 | .00956 | 2.7324 | 3.7244 | .02315 | 2.6932 | .44614 | .01102 | 140.37 | .29537 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19412** | **.00073** | **3.8078** | **.00141** | **.00348** | **1.7843** | **3.8184** | **.00035** | **.10425** | **.00035** |
| Stddev | .00119 | .00006 | .0135 | .00026 | .00246 | .0148 | .0316 | .00003 | .00019 | .00002 |
| %RSD | .61520 | 8.0287 | .35337 | 18.797 | 70.823 | .82698 | .82698 | 8.8778 | .18036 | 6.7952 |
| #1 | .19327 | .00077 | 3.7983 | .00122 | .00174 | 1.7739 | 3.7961 | .00032 | .10412 | .00033 |
| #2 | .19496 | .00069 | 3.8174 | .00159 | .00522 | 1.7947 | 3.8407 | .00037 | .10438 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00142** | **-.00069** | **.02495** | **.00121** | **.24978** | **-.00112** |
| Stddev | .00001 | .00091 | .01079 | .00031 | .00126 | .00129 |
| %RSD | .79353 | 131.44 | 43.248 | 25.859 | .50425 | 114.43 |
| #1 | .00141 | -.00005 | .03258 | .00143 | .25067 | -.00203 |
| #2 | .00142 | -.00134 | .01732 | .00098 | .24889 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9139.3** | **115340.** | **10310.** |
| Stddev | 7.4 | 430. | 23. |
| %RSD | .08132 | .37309 | .22208 |
| #1 | 9144.5 | 115040. | 10326. |
| #2 | 9134.0 | 115650. | 10294. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 19:22:58 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **50.119** | **.00392** | **.01088** | **.00078** | **-.00006** | **.99932** | **-.00589** | **-.00011** | **.00040** | **-.00009** | **.00215** | **49.011** |
| Stddev | .00054 | .035 | .00204 | .00078 | .00005 | .00008 | .00374 | .00134 | .00017 | .00018 | .00003 | .00053 | .259 |
| %RSD | 138.03 | .06919 | 52.024 | 7.1895 | 6.4334 | 133.59 | .37412 | 22.666 | 157.51 | 45.948 | 35.044 | 24.766 | .52799 |
| #1 | .00001 | 50.094 | .00536 | .01144 | .00081 | -.00012 | 1.0020 | -.00495 | -.00023 | .00053 | -.00011 | .00178 | 48.828 |
| #2 | .00077 | 50.143 | .00248 | .01033 | .00074 | .00000 | .99667 | -.00684 | .00001 | .00027 | -.00006 | .00253 | 49.194 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23685** | **.00295** | **-.01371** | **-.00002** | **-.00026** | **248.72** | **.00068** | **.00742** | **.00118** | **5.0976** | **.00174** | **-.00157** | **.00278** |
| Stddev | .01873 | .00127 | .00140 | .00009 | .00002 | .13 | .00003 | .00169 | .00011 | .0155 | .00047 | .00050 | .00484 |
| %RSD | 7.9061 | 42.839 | 10.240 | 417.05 | 6.8691 | .05413 | 4.5676 | 22.749 | 9.6785 | .30430 | 27.260 | 31.468 | 174.32 |
| #1 | .25009 | .00385 | -.01271 | .00004 | -.00027 | 248.81 | .00071 | .00862 | .00126 | 5.1086 | .00140 | -.00192 | .00620 |
| #2 | .22361 | .00206 | -.01470 | -.00008 | -.00024 | 248.62 | .00066 | .00623 | .00110 | 5.0867 | .00207 | -.00122 | -.00065 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00594** | **.00069** | **.00045** | **4.8940** | **-.00043** | **.00003** | **10.040** | **.00107** | **.00097** | **.02631** |
| Stddev | .01036 | .00021 | .00011 | .0043 | .00002 | .00023 | .027 | .00087 | .00000 | .00154 |
| %RSD | 174.32 | 29.874 | 24.556 | .08793 | 5.8053 | 791.16 | .26734 | 81.697 | .08696 | 5.8520 |
| #1 | .01326 | .00054 | .00053 | 4.8970 | -.00044 | .00019 | 10.059 | .00169 | .00097 | .02740 |
| #2 | -.00138 | .00084 | .00037 | 4.8910 | -.00041 | -.00013 | 10.021 | .00045 | .00097 | .02522 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9097.8** | **114660.** | **10016.** |
| Stddev | 8.0 | 485. | 1. |
| %RSD | .08741 | .42330 | .00615 |
| #1 | 9103.4 | 115010. | 10015. |
| #2 | 9092.2 | 114320. | 10016. |

Sample Name: CCV-2194461 Acquired: 8/14/2013 19:25:18 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49617** | **.51841** | **.97664** | **.50282** | **.47943** | **.49341** | **.00117** | **4.9465** | **.50130** | **.50838** | **.49379** | **.50723** | **2.4862** |
| Stddev | .00107 | .00067 | .00163 | .00038 | .00075 | .00183 | .00123 | .0260 | .00021 | .00014 | .00035 | .00057 | .0105 |
| %RSD | .21556 | .12895 | .16726 | .07458 | .15649 | .37147 | 104.96 | .52597 | .04185 | .02746 | .07150 | .11187 | .42221 |
| #1 | .49541 | .51794 | .97549 | .50309 | .47890 | .49211 | .00030 | 4.9281 | .50115 | .50848 | .49354 | .50763 | 2.4788 |
| #2 | .49692 | .51888 | .97780 | .50256 | .47996 | .49470 | .00204 | 4.9649 | .50145 | .50828 | .49404 | .50683 | 2.4936 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.474** | **.98185** | **19.240** | **.50264** | **.48924** | **5.2669** | **.49949** | **.97056** | **1.0097** | **.01709** | **1.0182** | **.98550** | **4.8752** |
| Stddev | .074 | .00059 | .001 | .00079 | .00028 | .0091 | .00029 | .00266 | .0022 | .00061 | .0051 | .00005 | .0166 |
| %RSD | .15048 | .06019 | .00477 | .15691 | .05783 | .17180 | .05852 | .27399 | .22273 | 3.5456 | .50307 | .00533 | .34142 |
| #1 | 49.422 | .98143 | 19.239 | .50320 | .48944 | 5.2733 | .49928 | .97244 | 1.0113 | .01752 | 1.0218 | .98554 | 4.8634 |
| #2 | 49.527 | .98227 | 19.241 | .50208 | .48904 | 5.2605 | .49969 | .96868 | 1.0081 | .01666 | 1.0146 | .98546 | 4.8869 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.433** | **.97856** | **.50009** | **-.00415** | **.50723** | **1.0266** | **.02148** | **.49826** | **.48378** | **.50106** |
| Stddev | .036 | .00245 | .00230 | .00061 | .00050 | .0032 | .01718 | .00039 | .00051 | .00137 |
| %RSD | .34142 | .25076 | .45921 | 14.766 | .09854 | .30819 | 79.981 | .07877 | .10600 | .27387 |
| #1 | 10.408 | .98029 | .49847 | -.00458 | .50759 | 1.0288 | .00933 | .49854 | .48414 | .50009 |
| #2 | 10.458 | .97682 | .50171 | -.00372 | .50688 | 1.0243 | .03363 | .49798 | .48342 | .50203 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9230.8** | **117230.** | **10028.** |
| Stddev | .8 | 10. | 14. |
| %RSD | .00853 | .00867 | .13793 |
| #1 | 9230.2 | 117240. | 10018. |
| #2 | 9231.4 | 117230. | 10038. |

Sample Name: CCB  Acquired: 8/14/2013 19:27:23  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00018** | **.00355** | W **.00562** | **-.00005** | **.00003** | **-.00018** | **-.00067** | **-.00007** | **.00007** | **-.00010** | **-.00067** |
| Stddev | .00002 | .00016 | .00250 | .00016 | .00001 | .00010 | .00064 | .00101 | .00002 | .00004 | .00007 | .00014 |
| %RSD | 14.783 | 90.818 | 70.619 | 2.7603 | 11.801 | 285.13 | 347.21 | 150.92 | 24.205 | 60.045 | 66.901 | 20.615 |
| #1 | .00013 | .00029 | .00532 | .00551 | -.00006 | .00010 | -.00064 | .00005 | -.00008 | .00004 | -.00005 | -.00057 |
| #2 | .00016 | .00006 | .00178 | .00573 | -.00005 | -.00003 | .00027 | -.00139 | -.00006 | .00010 | -.00015 | -.00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00437 | | | | | | | | |
| Low Limit | | | | -.00437 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **.18283** | **-.00030** | **.00002** | **.00005** | **.00054** | W **.16755** | **.00022** | **.00160** | **-.00058** | **.01525** | **.00303** |
| Stddev | .00150 | .05931 | .00353 | .00052 | .00004 | .00037 | .00812 | .00008 | .00173 | .00046 | .00018 | .00008 |
| %RSD | 166.39 | 32.441 | 1181.9 | 2180.0 | 86.835 | 68.108 | 4.8473 | 35.922 | 108.14 | 79.440 | 1.1804 | 2.5033 |
| #1 | .00196 | .22476 | -.00280 | .00039 | .00002 | .00028 | .17329 | .00027 | .00282 | -.00026 | .01512 | .00297 |
| #2 | -.00016 | .14089 | .00220 | -.00034 | .00008 | .00080 | .16181 | .00016 | .00038 | -.00091 | .01538 | .00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .09160 | | | | | |
| Low Limit | | | | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00302** | **.01284** | **.02747** | **.00046** | **.00001** | **-.00076** | **.00010** | **-.00017** | **.00797** | **.00006** | **.00134** | **-.00152** |
| Stddev | .00206 | .00254 | .00543 | .00058 | .00009 | .00153 | .00012 | .00110 | .00630 | .00010 | .00007 | .00083 |
| %RSD | 68.193 | 19.779 | 19.779 | 126.46 | 693.00 | 200.49 | 117.25 | 629.28 | 79.004 | 175.97 | 4.8774 | 54.736 |
| #1 | .00448 | .01463 | .03131 | .00005 | .00008 | .00032 | .00019 | -.00095 | .01243 | .00013 | .00138 | -.00093 |
| #2 | .00156 | .01104 | .02363 | .00087 | -.00005 | -.00184 | .00002 | .00060 | .00352 | -.00001 | .00129 | -.00210 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9356.8** | **119980.** | **9841.1** |
| Stddev | 28.9 | 650. | 73.9 |
| %RSD | .30939 | .54142 | .75066 |
| #1 | 9377.3 | 120440. | 9893.3 |
| #2 | 9336.3 | 119520. | 9788.8 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 19:29:38 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01029** | **.10704** | **.01580** | **.09799** | **.00961** | **.00100** | **.10802** | **.20026** | **.00491** | **.01069** | **.01011** | **.01467** | **.10191** | **3.1380** |
| Stddev | .00040 | .00006 | .00050 | .00001 | .00029 | .00004 | .00044 | .00348 | .00027 | .00011 | .00017 | .00009 | .00224 | .0254 |
| %RSD | 3.8595 | .05228 | 3.1740 | .01227 | 2.9805 | 3.9630 | .40365 | 1.7366 | 5.4977 | 1.0402 | 1.7031 | .58614 | 2.1974 | .80884 |
| #1 | .01001 | .10700 | .01615 | .09799 | .00981 | .00103 | .10771 | .20271 | .00510 | .01061 | .01024 | .01461 | .10349 | 3.1560 |
| #2 | .01057 | .10708 | .01544 | .09800 | .00941 | .00097 | .10833 | .19780 | .00472 | .01077 | .00999 | .01473 | .10032 | 3.1201 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01179** | **.19795** | **.01031** | **.01923** | **1.1969** | **.04101** | **2.7478** | **.00867** | **.01266** | **.00856** | **.01552** | **.47580** | **1.0182** | **.09923** |
| Stddev | .00640 | .00350 | .00000 | .00003 | .0117 | .00014 | .0164 | .00037 | .00341 | .00253 | .00254 | .01821 | .0390 | .00003 |
| %RSD | 54.268 | 1.7703 | .03593 | .15474 | .97900 | .33598 | .59764 | 4.3198 | 26.973 | 29.585 | 16.392 | 3.8278 | 3.8278 | .03001 |
| #1 | .01631 | .19547 | .01031 | .01925 | 1.2052 | .04111 | 2.7594 | .00841 | .01024 | .00677 | .01732 | .48867 | 1.0458 | .09921 |
| #2 | .00726 | .20043 | .01030 | .01921 | 1.1886 | .04092 | 2.7361 | .00894 | .01507 | .01036 | .01372 | .46292 | .99064 | .09925 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01011** | **.01518** | **.01017** | **.01405** | **.06396** | **.01056** | **.02033** | **.01470** |
| Stddev | .00008 | .00025 | .00042 | .00001 | .01030 | .00033 | .00077 | .00105 |
| %RSD | .81822 | 1.6617 | 4.1092 | .09972 | 16.096 | 3.1449 | 3.7980 | 7.1591 |
| #1 | .01017 | .01536 | .00988 | .01404 | .05668 | .01079 | .02087 | .01545 |
| #2 | .01005 | .01500 | .01047 | .01406 | .07124 | .01032 | .01978 | .01396 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9305.7** | **119250.** | **9951.8** |
| Stddev | 22.5 | 153. | 64.1 |
| %RSD | .24212 | .12842 | .64385 |
| #1 | 9289.7 | 119140. | 9906.5 |
| #2 | 9321.6 | 119360. | 9997.1 |

Sample Name: mb 280-187001/1-a  Acquired: 8/14/2013 19:31:55  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00150** | **.00386** | W **.00507** | **.00032** | **.00002** | **.00102** | **.00294** | **-.00022** | **.00015** |
| Stddev | .00050 | .00000 | .00092 | .00028 | .00027 | .00001 | .00079 | .00106 | .00007 | .00011 |
| %RSD | 4862.9 | .10954 | 23.843 | 5.5212 | 83.506 | 66.124 | 77.590 | 36.001 | 34.264 | 70.963 |
| #1 | .00035 | .00150 | .00451 | .00527 | .00013 | .00003 | .00046 | .00369 | -.00017 | .00023 |
| #2 | -.00037 | .00150 | .00321 | .00487 | .00051 | .00001 | .00157 | .00219 | -.00027 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00392 | | | | | | |
| Low Limit | | | | -.00500 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **-.00103** | **.00450** | **.13039** | **-.00191** | **.00267** | W **.00024** | **-.00022** | W **.11484** | **.00026** |
| Stddev | .00004 | .00014 | .00228 | .00521 | .00000 | .00016 | .00002 | .00026 | .00312 | .00007 |
| %RSD | 62.903 | 13.142 | 50.815 | 3.9986 | .13197 | 6.0551 | 9.0573 | 121.00 | 2.7172 | 27.940 |
| #1 | -.00004 | -.00094 | .00288 | .12671 | -.00191 | .00278 | .00026 | -.00040 | .11264 | .00031 |
| #2 | -.00010 | -.00113 | .00611 | .13408 | -.00192 | .00255 | .00023 | -.00003 | .11705 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .00023 | | .05054 | |
| Low Limit | | | | | | | -.00500 | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00365** | **-.00027** | F **.01280** | **.00029** | **.00194** | **.00159** | **.00340** | **.00010** | **.00009** | **-.00021** |
| Stddev | .00171 | .00023 | .00081 | .00124 | .00049 | .01444 | .03090 | .00017 | .00002 | .00131 |
| %RSD | 46.719 | 84.061 | 6.3333 | 426.99 | 25.053 | 907.48 | 907.48 | 174.62 | 22.494 | 623.34 |
| #1 | .00486 | -.00011 | .01337 | .00117 | .00160 | -.00862 | -.01844 | -.00002 | .00010 | .00071 |
| #2 | .00245 | -.00043 | .01223 | -.00059 | .00228 | .01180 | .02525 | .00022 | .00007 | -.00113 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .01000 | | | | | | | |
| Low Limit | | | -.01000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **-.00062** | **.00860** | **.00077** | **.00164** | **-.00125** |
| Stddev | .00024 | .00073 | .01983 | .00008 | .00016 | .00086 |
| %RSD | 83.806 | 118.22 | 230.72 | 10.225 | 9.9885 | 69.083 |
| #1 | .00012 | -.00010 | -.00543 | .00071 | .00152 | -.00186 |
| #2 | .00046 | -.00114 | .02262 | .00082 | .00175 | -.00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9380.2** | **120520.** | **9969.0** |
| Stddev | 38.0 | 10. | 48.5 |
| %RSD | .40525 | .00829 | .48610 |
| #1 | 9407.1 | 120510. | 10003. |
| #2 | 9353.3 | 120530. | 9934.7 |

Sample Name: lcs 280-187001/2-a Acquired: 8/14/2013 19:34:11 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05093** | **2.0307** | **1.0292** | **.99688** | **1.9819** | **.05092** | **2.0973** | **50.626** | **.10817** | **.51024** |
| Stddev | .00026 | .0001 | .0004 | .00237 | .0002 | .00003 | .0096 | .069 | .00024 | .00000 |
| %RSD | .50775 | .00487 | .04041 | .23758 | .00915 | .06110 | .45635 | .13589 | .21944 | .00081 |
| #1 | .05111 | 2.0306 | 1.0295 | .99520 | 1.9818 | .05094 | 2.0905 | 50.675 | .10800 | .51023 |
| #2 | .05075 | 2.0308 | 1.0289 | .99855 | 1.9820 | .05090 | 2.1040 | 50.577 | .10834 | .51024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20269** | **.26192** | **1.0226** | **51.447** | **1.0051** | **49.947** | **.51566** | **.98043** | **51.238** | **.50144** |
| Stddev | .00029 | .00032 | .0007 | .014 | .0023 | .041 | .00027 | .00000 | .155 | .00023 |
| %RSD | .14329 | .12343 | .06936 | .02791 | .22960 | .08265 | .05231 | .00014 | .30171 | .04528 |
| #1 | .20289 | .26169 | 1.0231 | 51.437 | 1.0035 | 49.918 | .51585 | .98043 | 51.347 | .50128 |
| #2 | .20248 | .26214 | 1.0221 | 51.457 | 1.0067 | 49.976 | .51547 | .98043 | 51.129 | .50160 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.199** | **.50930** | **.00206** | **.49350** | **2.0156** | **9.9508** | **21.295** | **1.9452** | **1.0354** | **.97872** |
| Stddev | .009 | .00216 | .00015 | .00133 | .0010 | .0023 | .005 | .0052 | .0006 | .00304 |
| %RSD | .08560 | .42343 | 7.5125 | .27022 | .05060 | .02285 | .02285 | .26658 | .05552 | .31078 |
| #1 | 10.193 | .50778 | .00217 | .49256 | 2.0164 | 9.9524 | 21.298 | 1.9489 | 1.0358 | .98087 |
| #2 | 10.205 | .51083 | .00195 | .49444 | 2.0149 | 9.9492 | 21.291 | 1.9415 | 1.0350 | .97656 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0270** | **2.0201** | **2.1656** | **.52137** | **.49911** | **.51710** |
| Stddev | .0006 | .0050 | .0117 | .00056 | .00106 | .00280 |
| %RSD | .05874 | .24827 | .54218 | .10664 | .21323 | .54188 |
| #1 | 1.0265 | 2.0236 | 2.1573 | .52098 | .49836 | .51511 |
| #2 | 1.0274 | 2.0165 | 2.1739 | .52177 | .49987 | .51908 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8979.0** | **112120.** | **9756.0** |
| Stddev | 30.5 | 598. | 20.3 |
| %RSD | .33932 | .53312 | .20844 |
| #1 | 9000.6 | 112540. | 9770.4 |
| #2 | 8957.5 | 111700. | 9741.7 |

Sample Name: 550-8485-a-1-a  Acquired: 8/14/2013 19:36:18  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00575** | **.00134** | **.25476** | **.01668** | **-.00006** | **-.00188** | **35.957** | **.00019** | **-.00018** |
| Stddev | .00024 | .00040 | .00337 | .00006 | .00003 | .00000 | .00052 | .005 | .00012 | .00005 |
| %RSD | 812.57 | 6.8831 | 251.72 | .02183 | .20494 | 7.1253 | 27.592 | .01266 | 63.912 | 28.626 |
| #1 | .00020 | .00547 | -.00105 | .25472 | .01671 | -.00006 | -.00225 | 35.960 | .00010 | -.00022 |
| #2 | -.00014 | .00603 | .00373 | .25480 | .01666 | -.00007 | -.00152 | 35.954 | .00027 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00034** | **.01383** | **4.2898** | **.09344** | **7.1962** | **.02357** | **.10120** | **120.34** | **.00301** |
| Stddev | .00011 | .00016 | .00111 | .0634 | .00162 | .0120 | .00005 | .00096 | .17 | .00042 |
| %RSD | 40.029 | 48.024 | 8.0436 | 1.4767 | 1.7381 | .16676 | .19795 | .95231 | .13870 | 14.085 |
| #1 | .00019 | .00022 | .01462 | 4.2450 | .09229 | 7.2047 | .02353 | .10052 | 120.22 | .00271 |
| #2 | .00035 | .00045 | .01305 | 4.3346 | .09459 | 7.1877 | .02360 | .10189 | 120.46 | .00331 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03366** | **-.00194** | **26.703** | **-.00312** | **.00259** | **27.546** | **58.949** | **.00088** | **.36821** | **.00099** |
| Stddev | .00059 | .00002 | .068 | .00136 | .00023 | .042 | .091 | .00032 | .00008 | .00039 |
| %RSD | 1.7438 | .82366 | .25388 | 43.656 | 8.7299 | .15354 | .15354 | 36.562 | .02211 | 39.922 |
| #1 | .03408 | -.00193 | 26.655 | -.00216 | .00274 | 27.517 | 58.885 | .00065 | .36815 | .00126 |
| #2 | .03325 | -.00195 | 26.751 | -.00408 | .00243 | 27.576 | 59.013 | .00110 | .36827 | .00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.00137** | **.01103** | **.00333** | **.00306** | **-.00201** |
| Stddev | .00023 | .00134 | .03853 | .00033 | .00008 | .00073 |
| %RSD | 6410.4 | 97.465 | 349.18 | 9.8602 | 2.4981 | 36.319 |
| #1 | .00017 | .00232 | -.01621 | .00310 | .00301 | -.00149 |
| #2 | -.00016 | .00043 | .03828 | .00356 | .00312 | -.00253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8955.4** | **112010.** | **9718.1** |
| Stddev | .3 | 155. | 4.4 |
| %RSD | .00341 | .13824 | .04553 |
| #1 | 8955.6 | 111900. | 9715.0 |
| #2 | 8955.2 | 112120. | 9721.3 |

Sample Name: 550-8485-a-1-aSD@5 Acquired: 8/14/2013 19:38:33 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.03465** | **.00123** | **.05548** | **.00316** | **.00004** | **-.00192** | **7.1995** | **-.00002** | **.00020** |
| Stddev | .00030 | .00024 | .00166 | .00033 | .00001 | .00006 | .00069 | .0356 | .00018 | .00002 |
| %RSD | 101.89 | .68254 | 134.96 | .60074 | .35928 | 131.82 | 35.734 | .49418 | 1051.5 | 11.004 |
| #1 | .00051 | .03448 | .00241 | .05572 | .00317 | .00000 | -.00143 | 7.1744 | .00011 | .00018 |
| #2 | .00008 | .03482 | .00006 | .05525 | .00315 | .00008 | -.00240 | 7.2247 | -.00015 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **-.00057** | **.01176** | **.95896** | **.01820** | **1.4809** | **.00493** | **.02012** | **24.564** | **.00063** |
| Stddev | .0001 | .00005 | .00060 | .05785 | .00013 | .0070 | .00005 | .00005 | .140 | .00001 |
| %RSD | 6827.6 | 8.3753 | 5.0631 | 6.0329 | .74157 | .47383 | 1.1019 | .27118 | .56899 | 2.2186 |
| #1 | .00005 | -.00053 | .01218 | .99987 | .01830 | 1.4759 | .00497 | .02008 | 24.663 | .00064 |
| #2 | -.00005 | -.00060 | .01134 | .91805 | .01811 | 1.4858 | .00489 | .02016 | 24.465 | .00062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00708** | **-.00062** | **5.2293** | **.00073** | **.00028** | **5.4407** | **11.643** | **.00007** | **.07368** | **.00080** |
| Stddev | .00011 | .00059 | .0147 | .00059 | .00088 | .0453 | .097 | .00059 | .00039 | .00107 |
| %RSD | 1.5337 | 95.774 | .28093 | 81.011 | 316.50 | .83283 | .83283 | 857.82 | .53038 | 133.92 |
| #1 | .00716 | -.00020 | 5.2190 | .00115 | .00090 | 5.4087 | 11.575 | -.00035 | .07340 | .00004 |
| #2 | .00701 | -.00104 | 5.2397 | .00031 | -.00034 | 5.4727 | 11.712 | .00049 | .07395 | .00156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **.00021** | **-.00015** | **.00103** | **.00350** | **-.00230** |
| Stddev | .00011 | .00147 | .00798 | .00009 | .00029 | .00318 |
| %RSD | 76.563 | 694.34 | 5312.1 | 8.9780 | 8.1890 | 138.03 |
| #1 | -.00007 | -.00083 | -.00579 | .00110 | .00371 | -.00006 |
| #2 | -.00022 | .00125 | .00549 | .00097 | .00330 | -.00455 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9126.8** | **116630.** | **9824.3** |
| Stddev | 50.8 | 228. | 4.4 |
| %RSD | .55686 | .19519 | .04506 |
| #1 | 9162.8 | 116460. | 9821.1 |
| #2 | 9090.9 | 116790. | 9827.4 |

Sample Name: 550-8485-a-1-b ms  Acquired: 8/14/2013 19:40:51  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05154** | **2.0209** | **1.0566** | **1.2421** | **2.0371** | **.05150** | F **2.0936** | **87.027** | **.10923** | **.51007** |
| Stddev | .00044 | .0020 | .0004 | .0001 | .0024 | .00013 | .0010 | .053 | .00023 | .00013 |
| %RSD | .86113 | .10020 | .04217 | .01029 | .12004 | .25463 | .04788 | .06065 | .21199 | .02524 |
| #1 | .05186 | 2.0194 | 1.0569 | 1.2422 | 2.0354 | .05159 | 2.0929 | 86.990 | .10907 | .50998 |
| #2 | .05123 | 2.0223 | 1.0563 | 1.2420 | 2.0388 | .05141 | 2.0943 | 87.065 | .10940 | .51016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20434** | **.26479** | **1.0477** | **56.525** | **1.1064** | **57.475** | **.54220** | **1.0838** | **170.41** | **.50437** |
| Stddev | .00006 | .00103 | .0001 | .113 | .0028 | .309 | .00358 | .0033 | .20 | .00007 |
| %RSD | .03098 | .38720 | .01117 | .19909 | .25581 | .53805 | .66078 | .30376 | .11896 | .01447 |
| #1 | .20438 | .26407 | 1.0476 | 56.445 | 1.1044 | 57.257 | .53966 | 1.0861 | 170.27 | .50442 |
| #2 | .20429 | .26552 | 1.0478 | 56.604 | 1.1084 | 57.694 | .54473 | 1.0815 | 170.56 | .50432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.393** | **.50216** | **26.743** | **.49566** | **2.0409** | **37.744** | **80.772** | **1.9535** | **1.4172** | **.99842** |
| Stddev | .011 | .00089 | .025 | .00022 | .0014 | .006 | .013 | .0027 | .0036 | .00896 |
| %RSD | .10646 | .17729 | .09409 | .04467 | .06837 | .01582 | .01582 | .13653 | .25292 | .89716 |
| #1 | 10.400 | .50279 | 26.725 | .49550 | 2.0419 | 37.740 | 80.763 | 1.9554 | 1.4147 | .99208 |
| #2 | 10.385 | .50153 | 26.761 | .49581 | 2.0399 | 37.748 | 80.781 | 1.9516 | 1.4198 | 1.0048 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0434** | **1.9560** | **2.1860** | **.53269** | **.51007** | **.51633** |
| Stddev | .0071 | .0000 | .0255 | .00376 | .00223 | .00211 |
| %RSD | .68349 | .00013 | 1.1676 | .70633 | .43703 | .40864 |
| #1 | 1.0384 | 1.9560 | 2.1679 | .53002 | .50850 | .51782 |
| #2 | 1.0485 | 1.9560 | 2.2040 | .53535 | .51165 | .51484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8764.5** | **109020.** | **9570.0** |
| Stddev | 2.1 | 262. | 33.9 |
| %RSD | .02442 | .24076 | .35430 |
| #1 | 8763.0 | 109210. | 9546.1 |
| #2 | 8766.0 | 108840. | 9594.0 |

Sample Name: 550-8485-a-1-c msd  Acquired: 8/14/2013 19:42:57  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05102** | **2.0354** | **1.0596** | **1.2464** | **2.0326** | **.05172** | F **2.0989** | **87.395** | **.10987** | **.51238** |
| Stddev | .00044 | .0030 | .0050 | .0016 | .0028 | .00010 | .0054 | .264 | .00016 | .00010 |
| %RSD | .85946 | .14843 | .47344 | .13004 | .13609 | .18618 | .25708 | .30226 | .14951 | .02047 |
| #1 | .05133 | 2.0375 | 1.0560 | 1.2453 | 2.0307 | .05165 | 2.0951 | 87.208 | .10998 | .51245 |
| #2 | .05071 | 2.0332 | 1.0631 | 1.2476 | 2.0346 | .05179 | 2.1027 | 87.582 | .10975 | .51231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20495** | **.26450** | **1.0362** | **56.756** | **1.1150** | **57.751** | **.54443** | **1.0890** | **171.29** | **.50619** |
| Stddev | .00021 | .00053 | .0016 | .194 | .0046 | .119 | .00096 | .0022 | .95 | .00019 |
| %RSD | .10062 | .20047 | .15028 | .34141 | .41035 | .20603 | .17573 | .19713 | .55462 | .03765 |
| #1 | .20481 | .26412 | 1.0373 | 56.619 | 1.1117 | 57.836 | .54510 | 1.0875 | 170.62 | .50632 |
| #2 | .20510 | .26487 | 1.0351 | 56.893 | 1.1182 | 57.667 | .54375 | 1.0905 | 171.96 | .50605 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.431** | **.50423** | **27.001** | **.49702** | **2.0466** | **38.014** | **81.351** | **1.9607** | **1.4235** | **1.0012** |
| Stddev | .013 | .00019 | .021 | .00072 | .0002 | .037 | .079 | .0006 | .0038 | .0034 |
| %RSD | .12455 | .03676 | .07872 | .14487 | .01148 | .09706 | .09706 | .03114 | .26882 | .34227 |
| #1 | 10.422 | .50410 | 27.016 | .49651 | 2.0464 | 37.988 | 81.295 | 1.9611 | 1.4208 | 1.0036 |
| #2 | 10.440 | .50436 | 26.986 | .49753 | 2.0467 | 38.041 | 81.407 | 1.9603 | 1.4262 | .99876 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0460** | **1.9640** | **2.1437** | **.53427** | **.51422** | **.51984** |
| Stddev | .0005 | .0011 | .0340 | .00031 | .00004 | .00434 |
| %RSD | .05136 | .05571 | 1.5866 | .05809 | .00740 | .83420 |
| #1 | 1.0463 | 1.9647 | 2.1197 | .53449 | .51419 | .51678 |
| #2 | 1.0456 | 1.9632 | 2.1678 | .53405 | .51425 | .52291 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8672.1** | **107880.** | **9536.1** |
| Stddev | 11.9 | 208. | 7.2 |
| %RSD | .13728 | .19321 | .07560 |
| #1 | 8680.5 | 107730. | 9541.2 |
| #2 | 8663.7 | 108030. | 9531.0 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 19:45:02 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **50.171** | **.00646** | **.00795** | **.00092** | **-.00009** | **.99320** | **-.00771** | **-.00017** | **.00034** | **-.00013** | **.00193** | **49.110** |
| Stddev | .00002 | .247 | .00315 | .00018 | .00015 | .00001 | .00169 | .00053 | .00011 | .00004 | .00011 | .00019 | .208 |
| %RSD | 3.6016 | .49209 | 48.708 | 2.3241 | 15.983 | 14.267 | .16983 | 6.8076 | 61.648 | 11.445 | 85.380 | 10.071 | .42422 |
| #1 | .00057 | 49.996 | .00868 | .00808 | .00081 | -.00010 | .99439 | -.00734 | -.00010 | .00031 | -.00021 | .00180 | 48.963 |
| #2 | .00054 | 50.345 | .00423 | .00782 | .00102 | -.00008 | .99201 | -.00809 | -.00025 | .00036 | -.00005 | .00207 | 49.258 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31286** | **.00065** | **-.01239** | **.00003** | **.00127** | **248.16** | **.00071** | **.00520** | **.00175** | **5.0354** | **.00124** | **.00230** | **.00591** |
| Stddev | .03217 | .00138 | .00528 | .00004 | .00034 | .47 | .00002 | .00051 | .00024 | .0076 | .00085 | .00185 | .00657 |
| %RSD | 10.284 | 212.46 | 42.587 | 132.07 | 26.573 | .18792 | 2.5724 | 9.8700 | 13.834 | .15164 | 68.544 | 80.663 | 111.08 |
| #1 | .29011 | .00162 | -.00866 | .00000 | .00103 | 247.83 | .00072 | .00484 | .00193 | 5.0408 | .00064 | .00361 | .00127 |
| #2 | .33561 | -.00033 | -.01612 | .00006 | .00151 | 248.49 | .00070 | .00557 | .00158 | 5.0300 | .00184 | .00099 | .01055 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01265** | **.00065** | **.00034** | **4.9265** | **-.00026** | **.00176** | **10.084** | **.00153** | **.00059** | **.02282** |
| Stddev | .01405 | .00027 | .00002 | .0092 | .00007 | .00030 | .040 | .00002 | .00007 | .00035 |
| %RSD | 111.08 | 41.836 | 6.6695 | .18655 | 26.217 | 17.296 | .39407 | 1.4148 | 11.546 | 1.5526 |
| #1 | .00271 | .00046 | .00032 | 4.9330 | -.00022 | .00155 | 10.112 | .00155 | .00054 | .02256 |
| #2 | .02258 | .00084 | .00036 | 4.9200 | -.00031 | .00198 | 10.056 | .00151 | .00064 | .02307 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8775.7** | **108570.** | **9308.4** |
| Stddev | 3.6 | 35. | 66.9 |
| %RSD | .04053 | .03263 | .71901 |
| #1 | 8773.2 | 108550. | 9261.1 |
| #2 | 8778.3 | 108600. | 9355.8 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 19:47:23 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49661** | **.52290** | **.97701** | **.49876** | **.47837** | **.49268** | **-.00215** | **4.9478** | **.50039** | **.50916** | **.49333** | **.50700** | **2.4819** |
| Stddev | .00185 | .00011 | .00180 | .00115 | .00169 | .00176 | .00266 | .0137 | .00046 | .00026 | .00097 | .00000 | .0104 |
| %RSD | .37350 | .02168 | .18453 | .22997 | .35253 | .35663 | 123.77 | .27714 | .09217 | .05092 | .19582 | .00011 | .41952 |
| #1 | .49793 | .52282 | .97574 | .49795 | .47717 | .49144 | -.00403 | 4.9381 | .50006 | .50935 | .49264 | .50700 | 2.4745 |
| #2 | .49530 | .52298 | .97829 | .49957 | .47956 | .49392 | -.00027 | 4.9574 | .50071 | .50898 | .49401 | .50700 | 2.4893 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.619** | **.98115** | **19.507** | **.50516** | **.48894** | **5.2630** | **.50026** | **.96900** | **1.0108** | **.00732** | **1.0128** | **.98463** | **4.8962** |
| Stddev | .164 | .00251 | .028 | .00082 | .00066 | .0231 | .00172 | .00017 | .0018 | .00246 | .0004 | .00526 | .0103 |
| %RSD | .33073 | .25594 | .14201 | .16281 | .13509 | .43793 | .34364 | .01712 | .18198 | 33.668 | .04487 | .53395 | .21083 |
| #1 | 49.503 | .97937 | 19.527 | .50458 | .48847 | 5.2793 | .49904 | .96912 | 1.0121 | .00558 | 1.0125 | .98091 | 4.8889 |
| #2 | 49.735 | .98292 | 19.488 | .50574 | .48941 | 5.2467 | .50147 | .96889 | 1.0095 | .00906 | 1.0132 | .98835 | 4.9035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.478** | **.98328** | **.49927** | **-.00521** | **.50837** | **1.0280** | **.03177** | **.50143** | **.49176** | **.50065** |
| Stddev | .022 | .00289 | .00299 | .00078 | .00113 | .0016 | .00182 | .00063 | .00096 | .00209 |
| %RSD | .21083 | .29417 | .59953 | 14.987 | .22279 | .15829 | 5.7262 | .12624 | .19558 | .41673 |
| #1 | 10.462 | .98124 | .49716 | -.00466 | .50757 | 1.0292 | .03048 | .50099 | .49108 | .49918 |
| #2 | 10.493 | .98533 | .50139 | -.00576 | .50917 | 1.0269 | .03306 | .50188 | .49244 | .50213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8939.6** | **112400.** | **9520.3** |
| Stddev | .9 | 640. | 19.3 |
| %RSD | .00953 | .56979 | .20238 |
| #1 | 8940.2 | 112850. | 9533.9 |
| #2 | 8939.0 | 111950. | 9506.7 |

Sample Name: CCB  Acquired: 8/14/2013 19:49:30  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **-.00011** | **.00299** | W **.00588** | **-.00029** | **.00002** | **-.00020** | **-.00324** | **-.00012** | **.00018** | **-.00004** | **-.00061** |
| Stddev | .00061 | .00009 | .00105 | .00096 | .00001 | .00005 | .00055 | .00572 | .00007 | .00017 | .00004 | .00026 |
| %RSD | 7502.2 | 76.860 | 35.128 | 16.352 | 4.6542 | 213.93 | 278.08 | 176.69 | 61.111 | 90.071 | 92.258 | 43.385 |
| #1 | -.00042 | -.00017 | .00373 | .00656 | -.00028 | .00006 | -.00059 | .00081 | -.00017 | .00007 | -.00001 | -.00042 |
| #2 | .00044 | -.00005 | .00225 | .00520 | -.00030 | -.00001 | .00019 | -.00728 | -.00007 | .00030 | -.00007 | -.00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00437 | | | | | | | | |
| Low Limit | | | | -.00437 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **.14700** | **-.00069** | **.00078** | **.00003** | **.00046** | W **.12697** | **-.00013** | **.00228** | **-.00019** | **.00516** | W **.00387** |
| Stddev | .00355 | .01525 | .00286 | .00066 | .00000 | .00015 | .00268 | .00009 | .00061 | .00039 | .00010 | .00118 |
| %RSD | 948.33 | 10.376 | 416.43 | 84.787 | 1.8356 | 33.055 | 2.1134 | 72.650 | 26.850 | 210.48 | 1.8599 | 30.456 |
| #1 | .00214 | .15779 | .00134 | .00031 | .00003 | .00035 | .12507 | -.00019 | .00271 | .00009 | .00523 | .00470 |
| #2 | -.00289 | .13622 | -.00271 | .00125 | .00003 | .00056 | .12886 | -.00006 | .00185 | -.00047 | .00510 | .00304 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00275** | **.00315** | **.00674** | **-.00042** | **.00003** | **.00171** | **.00021** | **-.00019** | **-.00686** | **.00026** | **.00114** | **-.00182** |
| Stddev | .00128 | .00098 | .00210 | .00064 | .00011 | .00037 | .00003 | .00042 | .03777 | .00062 | .00013 | .00065 |
| %RSD | 46.547 | 31.151 | 31.151 | 153.17 | 333.86 | 21.644 | 13.141 | 226.19 | 550.31 | 234.97 | 11.050 | 35.857 |
| #1 | .00365 | .00384 | .00822 | .00003 | -.00005 | .00198 | .00019 | .00011 | -.03357 | .00070 | .00105 | -.00136 |
| #2 | .00184 | .00246 | .00525 | -.00087 | .00011 | .00145 | .00023 | -.00049 | .01984 | -.00017 | .00123 | -.00228 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8992.8** | **114610.** | **9335.7** |
| Stddev | 26.8 | 365. | 5.5 |
| %RSD | .29810 | .31856 | .05861 |
| #1 | 9011.8 | 114350. | 9339.5 |
| #2 | 8973.9 | 114870. | 9331.8 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 19:51:44 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01001** | **.10748** | **.01496** | **.09688** | **.00959** | **.00091** | **.10679** | **.20723** | **.00502** | **.01084** | **.01003** | **.01437** | **.09991** | **3.1796** |
| Stddev | .00069 | .00072 | .00177 | .00082 | .00004 | .00004 | .00214 | .00133 | .00017 | .00007 | .00013 | .00023 | .00181 | .0022 |
| %RSD | 6.8519 | .66702 | 11.804 | .84187 | .44859 | 4.8863 | 2.0029 | .64104 | 3.4199 | .64438 | 1.3015 | 1.5667 | 1.8135 | .07045 |
| #1 | .00953 | .10799 | .01621 | .09630 | .00962 | .00088 | .10528 | .20817 | .00489 | .01089 | .01013 | .01421 | .09863 | 3.1812 |
| #2 | .01050 | .10698 | .01371 | .09745 | .00956 | .00094 | .10830 | .20629 | .00514 | .01079 | .00994 | .01453 | .10119 | 3.1780 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00972** | **.19832** | **.01039** | **.01937** | **1.1857** | **.04129** | **2.7451** | **.00940** | **.00572** | **.01037** | **.01612** | **.46799** | **1.0015** | **.09915** |
| Stddev | .00276 | .00544 | .00005 | .00008 | .0027 | .00032 | .0083 | .00005 | .00083 | .00224 | .00124 | .00428 | .0092 | .00050 |
| %RSD | 28.400 | 2.7445 | .45412 | .38757 | .23141 | .77821 | .30260 | .54440 | 14.444 | 21.600 | 7.7045 | .91429 | .91429 | .50638 |
| #1 | .01167 | .20217 | .01042 | .01932 | 1.1838 | .04152 | 2.7393 | .00937 | .00631 | .01195 | .01524 | .46496 | .99502 | .09879 |
| #2 | .00777 | .19447 | .01036 | .01942 | 1.1876 | .04106 | 2.7510 | .00944 | .00514 | .00878 | .01700 | .47102 | 1.0080 | .09950 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01027** | **.01501** | **.01013** | **.01458** | **.05953** | **.01070** | **.02077** | **.01400** |
| Stddev | .00012 | .00037 | .00003 | .00122 | .02539 | .00043 | .00026 | .00413 |
| %RSD | 1.1357 | 2.4436 | .32526 | 8.3652 | 42.646 | 4.0214 | 1.2556 | 29.496 |
| #1 | .01036 | .01526 | .01010 | .01544 | .04158 | .01040 | .02059 | .01108 |
| #2 | .01019 | .01475 | .01015 | .01372 | .07748 | .01101 | .02096 | .01692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9024.5** | **115090.** | **9303.0** |
| Stddev | 17.1 | 477. | 61.2 |
| %RSD | .18967 | .41411 | .65826 |
| #1 | 9012.4 | 115420. | 9259.7 |
| #2 | 9036.6 | 114750. | 9346.3 |

Sample Name: 550-8485-a-2-a  Acquired: 8/14/2013 19:54:01  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00459** | **.00208** | **.11241** | **.02370** | **-.00001** | **-.00239** | **94.669** | **.00022** | **.00005** |
| Stddev | .00030 | .00004 | .00065 | .00016 | .00025 | .00002 | .00166 | .160 | .00004 | .00015 |
| %RSD | 622.99 | .77024 | 31.225 | .14454 | 1.0688 | 186.29 | 69.352 | .16931 | 17.679 | 304.27 |
| #1 | -.00017 | .00456 | .00162 | .11229 | .02352 | -.00003 | -.00356 | 94.555 | .00020 | .00016 |
| #2 | .00026 | .00461 | .00254 | .11252 | .02388 | .00000 | -.00122 | 94.782 | .00025 | -.00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00042** | **.00618** | **5.1352** | **.10357** | **21.645** | **.00150** | **.00095** | **116.49** | **.00053** |
| Stddev | .00010 | .00003 | .00398 | .0518 | .00182 | .007 | .00001 | .00006 | .24 | .00018 |
| %RSD | 16.805 | 7.2089 | 64.407 | 1.0079 | 1.7619 | .03025 | .45559 | 5.9163 | .20858 | 33.367 |
| #1 | .00064 | .00044 | .00336 | 5.0986 | .10486 | 21.649 | .00150 | .00099 | 116.32 | .00066 |
| #2 | .00050 | .00039 | .00899 | 5.1718 | .10228 | 21.640 | .00149 | .00091 | 116.66 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00925** | **-.00134** | **53.193** | **-.00033** | **.00101** | **13.524** | **28.941** | **.00009** | **.81920** | **-.00127** |
| Stddev | .00099 | .00044 | .100 | .00117 | .00181 | .170 | .363 | .00031 | .00266 | .00006 |
| %RSD | 10.751 | 32.667 | .18792 | 350.86 | 178.96 | 1.2548 | 1.2548 | 349.70 | .32453 | 4.7640 |
| #1 | .00854 | -.00165 | 53.123 | .00050 | .00229 | 13.404 | 28.684 | .00031 | .81732 | -.00131 |
| #2 | .00995 | -.00103 | 53.264 | -.00117 | -.00027 | 13.644 | 29.198 | -.00013 | .82108 | -.00122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00024** | **.00577** | **.00724** | **.00237** | **-.00100** |
| Stddev | .00052 | .00077 | .00748 | .00050 | .00037 | .00112 |
| %RSD | 340.16 | 322.85 | 129.78 | 6.9564 | 15.591 | 112.12 |
| #1 | -.00022 | -.00078 | .00047 | .00688 | .00211 | -.00021 |
| #2 | .00053 | .00030 | .01106 | .00759 | .00263 | -.00179 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8708.3** | **109060.** | **9480.9** |
| Stddev | 3.4 | 69. | 16.0 |
| %RSD | .03865 | .06295 | .16884 |
| #1 | 8706.0 | 109110. | 9492.2 |
| #2 | 8710.7 | 109010. | 9469.6 |

Sample Name: 550-8485-a-3-a  Acquired: 8/14/2013 19:56:17  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **.00413** | **-.00032** | **.24726** | **.00278** | **-.00002** | **-.00223** | **29.669** | **.00003** | **-.00021** |
| Stddev | .00021 | .00034 | .00197 | .00024 | .00005 | .00007 | .00142 | .008 | .00001 | .00010 |
| %RSD | 46.143 | 8.1617 | 611.62 | .09547 | 1.9650 | 341.89 | 63.642 | .02698 | 22.541 | 47.252 |
| #1 | -.00031 | .00436 | .00107 | .24743 | .00274 | .00003 | -.00324 | 29.675 | .00004 | -.00028 |
| #2 | -.00061 | .00389 | -.00172 | .24709 | .00282 | -.00007 | -.00123 | 29.663 | .00003 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00260** | **.00647** | **.00666** | **3.5875** | **.07951** | **3.3577** | **.00232** | **.12010** | **120.02** | **.00019** |
| Stddev | .00002 | .00030 | .00175 | .0279 | .00267 | .0084 | .00002 | .00012 | .15 | .00046 |
| %RSD | .71825 | 4.6122 | 26.244 | .77916 | 3.3564 | .25103 | 1.0235 | .09885 | .12105 | 241.58 |
| #1 | .00258 | .00626 | .00789 | 3.6072 | .08140 | 3.3518 | .00234 | .12019 | 120.12 | .00052 |
| #2 | .00261 | .00668 | .00542 | 3.5677 | .07762 | 3.3637 | .00230 | .12002 | 119.91 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01102** | **-.00146** | **36.307** | **-.00279** | **.00293** | **18.266** | **39.090** | **.00031** | **.26884** | **-.00202** |
| Stddev | .00132 | .00050 | .027 | .00201 | .00026 | .009 | .019 | .00031 | .00038 | .00008 |
| %RSD | 12.007 | 34.411 | .07431 | 72.157 | 8.8412 | .04803 | .04803 | 101.89 | .14018 | 4.1492 |
| #1 | .01009 | -.00182 | 36.288 | -.00136 | .00312 | 18.260 | 39.077 | .00009 | .26910 | -.00208 |
| #2 | .01196 | -.00111 | 36.326 | -.00421 | .00275 | 18.273 | 39.103 | .00053 | .26857 | -.00196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **-.00079** | **.01272** | **.00333** | **.00474** | **-.00113** |
| Stddev | .00017 | .00011 | .02895 | .00018 | .00012 | .00105 |
| %RSD | 205.23 | 14.338 | 227.53 | 5.4693 | 2.4997 | 92.821 |
| #1 | .00004 | -.00071 | .03319 | .00320 | .00466 | -.00039 |
| #2 | -.00020 | -.00086 | -.00775 | .00346 | .00483 | -.00187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8894.3** | **111770.** | **9651.3** |
| Stddev | 7.0 | 193. | 16.6 |
| %RSD | .07901 | .17301 | .17157 |
| #1 | 8899.3 | 111910. | 9663.0 |
| #2 | 8889.3 | 111640. | 9639.6 |

Sample Name: 550-8485-a-4-a  Acquired: 8/14/2013 19:58:32  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00296** | **.00177** | **.24476** | **.00290** | **-.00001** | **-.00255** | **29.453** | **.00005** | **.00000** |
| Stddev | .00002 | .00005 | .00085 | .00047 | .00002 | .00001 | .00068 | .006 | .00017 | .00001 |
| %RSD | 10.101 | 1.8131 | 48.014 | .19243 | .52512 | 52.004 | 26.703 | .01952 | 324.11 | 396.24 |
| #1 | .00022 | .00292 | .00237 | .24442 | .00291 | -.00002 | -.00207 | 29.449 | .00017 | .00001 |
| #2 | .00026 | .00299 | .00117 | .24509 | .00289 | -.00001 | -.00303 | 29.458 | -.00007 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00259** | **.00719** | **.00771** | **3.6157** | **.08059** | **3.3259** | **.00218** | **.12000** | **119.27** | **.00011** |
| Stddev | .00006 | .00012 | .00125 | .0437 | .00017 | .0236 | .00002 | .00026 | .34 | .00001 |
| %RSD | 2.1822 | 1.7198 | 16.267 | 1.2099 | .21538 | .70826 | .96951 | .21474 | .28456 | 12.412 |
| #1 | .00263 | .00728 | .00860 | 3.6467 | .08047 | 3.3426 | .00220 | .12018 | 119.51 | .00012 |
| #2 | .00255 | .00710 | .00683 | 3.5848 | .08071 | 3.3092 | .00217 | .11982 | 119.03 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01190** | **-.00027** | **36.093** | **-.00205** | **.00656** | **18.005** | **38.531** | **-.00015** | **.26728** | **-.00067** |
| Stddev | .00044 | .00091 | .028 | .00114 | .00204 | .133 | .285 | .00105 | .00073 | .00039 |
| %RSD | 3.7050 | 334.03 | .07881 | 55.717 | 31.179 | .73882 | .73882 | 696.41 | .27203 | 58.950 |
| #1 | .01221 | -.00092 | 36.073 | -.00124 | .00511 | 18.099 | 38.732 | -.00090 | .26779 | -.00095 |
| #2 | .01158 | .00037 | 36.113 | -.00286 | .00800 | 17.911 | 38.329 | .00059 | .26677 | -.00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **-.00078** | **-.00556** | **.00351** | **.00536** | **-.00080** |
| Stddev | .00026 | .00098 | .00888 | .00030 | .00011 | .00071 |
| %RSD | 241.14 | 125.22 | 159.86 | 8.6029 | 2.0444 | 89.020 |
| #1 | .00029 | -.00147 | .00072 | .00372 | .00544 | -.00030 |
| #2 | -.00008 | -.00009 | -.01184 | .00329 | .00529 | -.00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8953.0** | **112210.** | **9756.0** |
| Stddev | 8.0 | 1133. | 119.3 |
| %RSD | .08957 | 1.0096 | 1.2225 |
| #1 | 8947.3 | 111410. | 9840.3 |
| #2 | 8958.7 | 113010. | 9671.7 |

Sample Name: 550-8558-a-1-a  Acquired: 8/14/2013 20:00:47  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.00212** | **.00304** | **.10046** | **.01617** | **.00001** | **-.00430** | **53.483** | **.00030** | **.00053** |
| Stddev | .00020 | .00014 | .00068 | .00046 | .00025 | .00003 | .00190 | .451 | .00011 | .00026 |
| %RSD | 97.522 | 6.4242 | 22.499 | .45982 | 1.5233 | 233.69 | 44.096 | .84258 | 38.318 | 48.978 |
| #1 | -.00034 | .00202 | .00352 | .10078 | .01600 | .00004 | -.00564 | 53.164 | .00022 | .00072 |
| #2 | -.00006 | .00222 | .00255 | .10013 | .01634 | -.00001 | -.00296 | 53.802 | .00038 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00564** | **.00016** | **.02220** | **5.1601** | **.07523** | **10.949** | **.00257** | **.01967** | **91.596** | **.01250** |
| Stddev | .00013 | .00007 | .00234 | .0386 | .00146 | .004 | .00001 | .00001 | .755 | .00002 |
| %RSD | 2.2494 | 39.771 | 10.556 | .74866 | 1.9349 | .03344 | .25801 | .06138 | .82388 | .15888 |
| #1 | .00572 | .00012 | .02386 | 5.1328 | .07420 | 10.952 | .00257 | .01968 | 91.062 | .01248 |
| #2 | .00555 | .00021 | .02054 | 5.1874 | .07626 | 10.946 | .00258 | .01966 | 92.129 | .01251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01180** | **-.00239** | **19.650** | **.00073** | **.00156** | **25.024** | **53.552** | **.00028** | **.49516** | **.00090** |
| Stddev | .00060 | .00062 | .013 | .00043 | .00054 | .188 | .402 | .00000 | .00274 | .00100 |
| %RSD | 5.1245 | 25.811 | .06864 | 59.548 | 34.992 | .74998 | .74998 | 1.4657 | .55251 | 111.93 |
| #1 | .01223 | -.00282 | 19.640 | .00042 | .00194 | 24.892 | 53.268 | .00028 | .49322 | .00161 |
| #2 | .01138 | -.00195 | 19.659 | .00104 | .00117 | 25.157 | 53.836 | .00029 | .49709 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **-.00061** | **-.00838** | **.00469** | **.00235** | **-.00087** |
| Stddev | .00027 | .00111 | .03073 | .00011 | .00019 | .00120 |
| %RSD | 173.52 | 180.35 | 366.57 | 2.3356 | 8.0530 | 137.67 |
| #1 | .00035 | -.00140 | -.03011 | .00461 | .00221 | -.00002 |
| #2 | -.00004 | .00017 | .01335 | .00477 | .00248 | -.00172 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8952.6** | **112720.** | **9764.1** |
| Stddev | 19.0 | 139. | 127.5 |
| %RSD | .21207 | .12341 | 1.3059 |
| #1 | 8966.1 | 112620. | 9854.3 |
| #2 | 8939.2 | 112810. | 9674.0 |

Sample Name: 550-8558-a-2-a  Acquired: 8/14/2013 20:03:05  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **.00186** | **.00331** | **.14928** | **.04729** | **-.00002** | **-.00316** | **101.87** | **.00017** | **-.00014** |
| Stddev | .00010 | .00013 | .00213 | .00024 | .00062 | .00003 | .00076 | .59 | .00025 | .00002 |
| %RSD | 34.087 | 6.8469 | 64.203 | .16373 | 1.3152 | 138.25 | 24.217 | .58193 | 145.31 | 14.516 |
| #1 | -.00021 | .00195 | .00482 | .14911 | .04685 | -.00005 | -.00370 | 101.45 | .00000 | -.00013 |
| #2 | -.00035 | .00177 | .00181 | .14946 | .04773 | .00000 | -.00262 | 102.29 | .00035 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.00008** | **.00597** | **4.9998** | **.14153** | **21.326** | **.00160** | **.00238** | **146.17** | **.00015** |
| Stddev | .00011 | .00055 | .00065 | .0051 | .00242 | .003 | .00010 | .00008 | .99 | .00014 |
| %RSD | 19.811 | 669.04 | 10.949 | .10243 | 1.7085 | .01394 | 6.2626 | 3.4419 | .67552 | 90.407 |
| #1 | .00061 | .00047 | .00551 | 5.0034 | .13982 | 21.324 | .00167 | .00232 | 145.47 | .00005 |
| #2 | .00046 | -.00031 | .00643 | 4.9962 | .14324 | 21.328 | .00152 | .00244 | 146.87 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00768** | **-.00129** | **60.696** | **-.00011** | **.00261** | **16.079** | **34.410** | **.00075** | **.79197** | **-.00173** |
| Stddev | .00034 | .00034 | .091 | .00111 | .00382 | .063 | .136 | .00038 | .00513 | .00290 |
| %RSD | 4.4853 | 26.164 | .14949 | 1005.0 | 146.33 | .39444 | .39444 | 50.586 | .64822 | 167.58 |
| #1 | .00744 | -.00106 | 60.760 | -.00089 | .00531 | 16.035 | 34.314 | .00102 | .78834 | -.00379 |
| #2 | .00792 | -.00153 | 60.632 | .00067 | -.00009 | 16.124 | 34.506 | .00048 | .79560 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **-.00010** | **.00634** | **.00752** | **.00164** | **.00212** |
| Stddev | .00005 | .00031 | .02414 | .00004 | .00031 | .00360 |
| %RSD | 61.959 | 311.77 | 381.08 | .56342 | 19.022 | 169.66 |
| #1 | .00004 | -.00032 | .02341 | .00755 | .00186 | .00466 |
| #2 | .00011 | .00012 | -.01074 | .00749 | .00142 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8790.3** | **110500.** | **9756.0** |
| Stddev | 14.9 | 116. | 66.4 |
| %RSD | .16954 | .10522 | .68091 |
| #1 | 8779.8 | 110420. | 9802.9 |
| #2 | 8800.9 | 110580. | 9709.0 |

Sample Name: 550-8558-a-3-a  Acquired: 8/14/2013 20:05:22  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00124** | **-.00006** | **.08676** | **.03193** | **-.00008** | **-.00062** | **53.149** | **.00019** | **.00025** |
| Stddev | .00019 | .00004 | .00287 | .00089 | .00001 | .00004 | .00274 | .115 | .00016 | .00027 |
| %RSD | 60.245 | 3.4178 | 4945.5 | 1.0232 | .04210 | 49.729 | 438.87 | .21599 | 82.937 | 109.09 |
| #1 | .00044 | .00127 | .00197 | .08614 | .03194 | -.00010 | -.00256 | 53.067 | .00030 | .00044 |
| #2 | .00018 | .00121 | -.00209 | .08739 | .03192 | -.00005 | .00131 | 53.230 | .00008 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00003** | **.09815** | **4.0574** | **.06806** | **11.136** | **.04171** | **.00153** | **86.773** | **-.00006** |
| Stddev | .00006 | .00019 | .00070 | .0536 | .00282 | .006 | .00012 | .00006 | .359 | .00016 |
| %RSD | 114.19 | 597.94 | .71617 | 1.3212 | 4.1453 | .05638 | .29201 | 4.2124 | .41383 | 280.75 |
| #1 | .00009 | -.00010 | .09865 | 4.0195 | .07005 | 11.140 | .04163 | .00148 | 86.519 | .00006 |
| #2 | .00001 | .00017 | .09765 | 4.0953 | .06606 | 11.131 | .04180 | .00158 | 87.027 | -.00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00275** | **-.00109** | **16.283** | **-.00039** | **.00104** | **10.518** | **22.509** | **.00004** | **.44064** | **-.00094** |
| Stddev | .00003 | .00044 | .022 | .00015 | .00043 | .015 | .033 | .00050 | .00079 | .00255 |
| %RSD | .91011 | 40.345 | .13520 | 38.504 | 41.348 | .14573 | .14573 | 1343.5 | .17950 | 272.56 |
| #1 | .00277 | -.00141 | 16.267 | -.00028 | .00135 | 10.529 | 22.533 | -.00032 | .44008 | -.00274 |
| #2 | .00273 | -.00078 | 16.298 | -.00049 | .00074 | 10.508 | 22.486 | .00039 | .44119 | .00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00028** | **.02162** | **.00230** | **.00164** | **-.00198** |
| Stddev | .00057 | .00004 | .03016 | .00004 | .00040 | .00076 |
| %RSD | 624.72 | 12.778 | 139.51 | 1.8445 | 24.737 | 38.463 |
| #1 | -.00031 | .00025 | .04294 | .00227 | .00192 | -.00252 |
| #2 | .00050 | .00030 | .00029 | .00233 | .00135 | -.00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9086.5** | **112740.** | **9744.9** |
| Stddev | 25.0 | 57. | 1.2 |
| %RSD | .27471 | .05056 | .01228 |
| #1 | 9068.9 | 112700. | 9744.0 |
| #2 | 9104.2 | 112780. | 9745.7 |

Sample Name: 550-8558-a-4-a  Acquired: 8/14/2013 20:07:41  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187001 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **.00512** | **.00196** | **.16500** | **.04927** | **-.00009** | **-.00299** | **102.28** | **.00044** | **.00007** |
| Stddev | .00010 | .00019 | .00077 | .00012 | .00039 | .00001 | .00187 | .24 | .00011 | .00010 |
| %RSD | 16.599 | 3.7793 | 39.288 | .07275 | .78324 | 10.632 | 62.340 | .23939 | 25.296 | 158.65 |
| #1 | -.00053 | .00526 | .00142 | .16509 | .04900 | -.00009 | -.00167 | 102.10 | .00036 | -.00001 |
| #2 | -.00067 | .00498 | .00251 | .16492 | .04954 | -.00008 | -.00431 | 102.45 | .00052 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00050** | **.00656** | **4.8838** | **.14877** | **22.596** | **.00105** | **.00211** | **149.71** | **-.00002** |
| Stddev | .00004 | .00033 | .00015 | .0050 | .00248 | .064 | .00003 | .00000 | .57 | .00006 |
| %RSD | 7.2998 | 64.621 | 2.2376 | .10177 | 1.6651 | .28439 | 2.9152 | .14032 | .38013 | 235.69 |
| #1 | .00049 | .00027 | .00645 | 4.8803 | .14702 | 22.550 | .00107 | .00211 | 149.31 | -.00006 |
| #2 | .00054 | .00073 | .00666 | 4.8873 | .15052 | 22.641 | .00103 | .00210 | 150.11 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00891** | **-.00162** | **57.643** | **.00126** | **-.00065** | **16.770** | **35.889** | **-.00048** | **.79426** | **-.00154** |
| Stddev | .00118 | .00066 | .068 | .00103 | .00245 | .061 | .130 | .00028 | .00220 | .00022 |
| %RSD | 13.298 | 40.351 | .11875 | 81.496 | 376.05 | .36200 | .36200 | 58.572 | .27639 | 14.451 |
| #1 | .00807 | -.00116 | 57.691 | .00054 | -.00238 | 16.727 | 35.797 | -.00028 | .79271 | -.00139 |
| #2 | .00975 | -.00209 | 57.595 | .00199 | .00108 | 16.813 | 35.981 | -.00067 | .79581 | -.00170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00012** | **.00171** | **.00829** | **.00221** | **-.00003** |
| Stddev | .00006 | .00155 | .00285 | .00024 | .00057 | .00207 |
| %RSD | 50.976 | 1255.1 | 166.82 | 2.8810 | 25.977 | 7112.7 |
| #1 | .00015 | -.00097 | .00373 | .00846 | .00262 | -.00149 |
| #2 | .00007 | .00122 | -.00031 | .00812 | .00181 | .00143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8881.3** | **111400.** | **9989.8** |
| Stddev | 28.3 | 411. | 18.2 |
| %RSD | .31915 | .36870 | .18240 |
| #1 | 8901.4 | 111690. | 10003. |
| #2 | 8861.3 | 111110. | 9976.9 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 20:09:59 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **50.076** | **.00492** | **.00426** | **.00063** | **-.00012** | **1.0047** | **-.00389** | **-.00018** | **.00046** | **-.00013** | **.00189** | **49.040** |
| Stddev | .00021 | .089 | .00039 | .00012 | .00028 | .00005 | .0054 | .00154 | .00015 | .00001 | .00008 | .00006 | .073 |
| %RSD | 50.902 | .17787 | 7.9071 | 2.7532 | 44.614 | 43.467 | .53615 | 39.575 | 83.102 | 1.4586 | 66.061 | 3.0573 | .14822 |
| #1 | .00027 | 50.139 | .00519 | .00435 | .00043 | -.00008 | 1.0085 | -.00280 | -.00007 | .00045 | -.00007 | .00193 | 48.989 |
| #2 | .00057 | 50.013 | .00464 | .00418 | .00082 | -.00015 | 1.0009 | -.00498 | -.00028 | .00046 | -.00018 | .00185 | 49.092 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20381** | **.00220** | **-.01075** | **-.00005** | **-.00011** | **249.13** | **.00136** | **.00323** | **.00141** | **5.1083** | **-.00095** | **.00148** | **-.00853** |
| Stddev | .01094 | .00149 | .00029 | .00008 | .00001 | .62 | .00003 | .00076 | .00026 | .0336 | .00142 | .00248 | .01366 |
| %RSD | 5.3684 | 67.607 | 2.6691 | 153.42 | 11.007 | .24847 | 2.3955 | 23.556 | 18.142 | .65854 | 150.42 | 167.48 | 160.17 |
| #1 | .21155 | .00325 | -.01096 | -.00011 | -.00012 | 249.57 | .00139 | .00270 | .00159 | 5.1320 | .00006 | -.00027 | .00113 |
| #2 | .19607 | .00115 | -.01055 | .00000 | -.00011 | 248.69 | .00134 | .00377 | .00123 | 5.0845 | -.00195 | .00324 | -.01819 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01825** | **.00009** | **.00039** | **4.9392** | **-.00065** | **.00008** | **10.077** | **.00108** | **.00035** | **.02521** |
| Stddev | .02923 | .00032 | .00006 | .0009 | .00016 | .00221 | .036 | .00040 | .00037 | .00128 |
| %RSD | 160.17 | 376.87 | 15.066 | .01792 | 24.252 | 2645.7 | .35716 | 37.238 | 104.18 | 5.0894 |
| #1 | .00242 | -.00014 | .00035 | 4.9398 | -.00077 | .00164 | 10.051 | .00136 | .00061 | .02431 |
| #2 | -.03892 | .00031 | .00043 | 4.9386 | -.00054 | -.00148 | 10.102 | .00079 | .00009 | .02612 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9035.0** | **112810.** | **9908.5** |
| Stddev | 13.7 | 424. | 69.4 |
| %RSD | .15109 | .37600 | .70074 |
| #1 | 9025.3 | 113110. | 9859.4 |
| #2 | 9044.6 | 112510. | 9957.6 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 20:12:20 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49595** | **.52001** | **.97743** | **.49895** | **.47779** | **.49426** | **.00153** | **4.9517** | **.50121** | **.50926** | **.49377** | **.50526** | **2.4923** |
| Stddev | .00018 | .00115 | .00085 | .00088 | .00092 | .00246 | .00204 | .0176 | .00024 | .00074 | .00066 | .00073 | .0106 |
| %RSD | .03702 | .22065 | .08655 | .17577 | .19285 | .49778 | 133.58 | .35543 | .04695 | .14483 | .13420 | .14477 | .42643 |
| #1 | .49582 | .51920 | .97683 | .49957 | .47714 | .49252 | .00297 | 4.9393 | .50105 | .50874 | .49330 | .50475 | 2.4848 |
| #2 | .49608 | .52082 | .97803 | .49833 | .47844 | .49600 | .00008 | 4.9642 | .50138 | .50978 | .49424 | .50578 | 2.4998 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.463** | **.97891** | **19.323** | **.50458** | **.48886** | **5.2274** | **.49884** | **.96803** | **1.0072** | **.00944** | **1.0202** | **.98667** | **4.8991** |
| Stddev | .246 | .00108 | .039 | .00056 | .00032 | .0397 | .00051 | .00018 | .0026 | .00331 | .0090 | .00351 | .0132 |
| %RSD | .49818 | .11019 | .20192 | .11152 | .06454 | .75910 | .10191 | .01894 | .25579 | 35.024 | .88218 | .35609 | .26901 |
| #1 | 49.289 | .97815 | 19.350 | .50498 | .48908 | 5.1993 | .49848 | .96790 | 1.0091 | .00710 | 1.0265 | .98916 | 4.9084 |
| #2 | 49.638 | .97967 | 19.295 | .50419 | .48863 | 5.2554 | .49920 | .96816 | 1.0054 | .01178 | 1.0138 | .98419 | 4.8898 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.484** | **.98323** | **.49972** | **-.00272** | **.50906** | **1.0297** | **-.00424** | **.50082** | **.48756** | **.50471** |
| Stddev | .028 | .00277 | .00228 | .00052 | .00071 | .0059 | .02187 | .00002 | .00011 | .00085 |
| %RSD | .26901 | .28164 | .45636 | 18.987 | .13895 | .56830 | 515.87 | .00358 | .02215 | .16817 |
| #1 | 10.504 | .98518 | .49811 | -.00235 | .50856 | 1.0339 | .01123 | .50083 | .48749 | .50411 |
| #2 | 10.464 | .98127 | .50134 | -.00308 | .50956 | 1.0256 | -.01970 | .50081 | .48764 | .50531 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9224.0** | **116370.** | **9947.9** |
| Stddev | 19.5 | 234. | 31.8 |
| %RSD | .21171 | .20096 | .31928 |
| #1 | 9237.8 | 116210. | 9925.5 |
| #2 | 9210.2 | 116540. | 9970.4 |

Sample Name: CCB Acquired: 8/14/2013 20:14:27 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **-.00020** | **.00236** | **.00326** | **-.00011** | **-.00003** | **-.00031** | **-.00079** | **.00005** | **.00030** | **-.00003** | **-.00116** |
| Stddev | .00008 | .00013 | .00009 | .00014 | .00016 | .00004 | .00215 | .00029 | .00018 | .00015 | .00017 | .00007 |
| %RSD | 13.882 | 63.197 | 3.8434 | 4.2162 | 137.58 | 105.85 | 687.16 | 37.373 | 338.02 | 49.339 | 572.38 | 5.7949 |
| #1 | .00062 | -.00030 | .00243 | .00336 | .00000 | -.00001 | .00121 | -.00100 | .00018 | .00019 | .00009 | -.00111 |
| #2 | .00051 | -.00011 | .00230 | .00316 | -.00022 | -.00006 | -.00183 | -.00058 | -.00007 | .00040 | -.00015 | -.00121 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **.13480** | **-.00125** | **.00286** | **.00005** | **.00064** | W **.11823** | **-.00012** | **.00181** | **.00029** | **.01012** | **.00169** |
| Stddev | .00084 | .05833 | .00532 | .00085 | .00002 | .00028 | .00213 | .00006 | .00005 | .00005 | .00024 | .00082 |
| %RSD | 179.97 | 43.273 | 426.47 | 29.854 | 43.850 | 43.126 | 1.8054 | 55.527 | 2.9398 | 17.664 | 2.3775 | 48.671 |
| #1 | .00013 | .17605 | -.00501 | .00346 | .00004 | .00045 | .11672 | -.00016 | .00177 | .00026 | .00995 | .00111 |
| #2 | -.00106 | .09356 | .00251 | .00225 | .00007 | .00084 | .11974 | -.00007 | .00185 | .00033 | .01029 | .00227 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .09160 | | | | | |
| Low Limit | | | | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00263** | **-.00160** | **-.00343** | **.00041** | **-.00001** | **.00189** | **.00019** | **-.00039** | **-.00943** | **.00071** | **.00141** | **-.00048** |
| Stddev | .00179 | .00659 | .01409 | .00016 | .00016 | .00204 | .00018 | .00092 | .00753 | .00019 | .00016 | .00008 |
| %RSD | 68.010 | 411.50 | 411.50 | 38.678 | 1645.8 | 107.93 | 96.345 | 238.08 | 79.804 | 26.828 | 11.037 | 16.812 |
| #1 | .00390 | .00306 | .00654 | .00052 | -.00012 | .00333 | .00032 | -.00104 | -.01475 | .00058 | .00152 | -.00042 |
| #2 | .00137 | -.00626 | -.01339 | .00030 | .00010 | .00045 | .00006 | .00026 | -.00411 | .00085 | .00130 | -.00054 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9273.0** | **119130.** | **9867.3** |
| Stddev | 6.5 | 738. | 88.3 |
| %RSD | .07000 | .61980 | .89523 |
| #1 | 9277.6 | 118600. | 9804.8 |
| #2 | 9268.4 | 119650. | 9929.7 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 20:16:42 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01066** | **.10646** | **.01590** | **.09553** | **.00960** | **.00097** | **.10951** | **.19957** | **.00500** | **.01070** | **.01027** | **.01481** | **.10273** | **3.1031** |
| Stddev | .00005 | .00025 | .00053 | .00046 | .00007 | .00001 | .00028 | .00124 | .00012 | .00002 | .00001 | .00009 | .00223 | .0678 |
| %RSD | .46812 | .23062 | 3.3129 | .47993 | .75291 | .96650 | .25192 | .61990 | 2.3869 | .15759 | .07114 | .62170 | 2.1706 | 2.1849 |
| #1 | .01070 | .10663 | .01627 | .09521 | .00955 | .00096 | .10931 | .19870 | .00491 | .01071 | .01026 | .01475 | .10115 | 3.1511 |
| #2 | .01063 | .10628 | .01553 | .09585 | .00965 | .00098 | .10970 | .20045 | .00508 | .01068 | .01027 | .01488 | .10431 | 3.0552 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01002** | **.19996** | **.01039** | **.01916** | **1.1798** | **.04094** | **2.7488** | **.00932** | **.00777** | **.00957** | **.01660** | **.47322** | **1.0127** | **.09808** |
| Stddev | .00081 | .00075 | .00004 | .00012 | .0033 | .00033 | .0111 | .00054 | .00144 | .00265 | .00118 | .00664 | .0142 | .00019 |
| %RSD | 8.0523 | .37310 | .37397 | .64717 | .27757 | .80666 | .40305 | 5.7707 | 18.546 | 27.705 | 7.1079 | 1.4021 | 1.4021 | .19856 |
| #1 | .01059 | .19943 | .01042 | .01907 | 1.1822 | .04071 | 2.7410 | .00894 | .00879 | .01144 | .01577 | .46853 | 1.0026 | .09794 |
| #2 | .00945 | .20049 | .01036 | .01925 | 1.1775 | .04117 | 2.7567 | .00970 | .00675 | .00769 | .01744 | .47791 | 1.0227 | .09821 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01008** | **.01575** | **.01039** | **.01468** | **.06961** | **.01013** | **.02039** | **.01455** |
| Stddev | .00005 | .00128 | .00000 | .00049 | .01946 | .00007 | .00050 | .00098 |
| %RSD | .46723 | 8.1130 | .02758 | 3.3490 | 27.956 | .71775 | 2.4467 | 6.7647 |
| #1 | .01005 | .01485 | .01039 | .01503 | .08337 | .01018 | .02075 | .01524 |
| #2 | .01011 | .01665 | .01040 | .01433 | .05585 | .01008 | .02004 | .01385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9352.6** | **119770.** | **9976.8** |
| Stddev | 6.0 | 303. | 36.9 |
| %RSD | .06454 | .25321 | .37032 |
| #1 | 9356.9 | 119560. | 10003. |
| #2 | 9348.3 | 119990. | 9950.6 |

Sample Name: mb 280-186933/1-a  Acquired: 8/14/2013 20:18:59  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **.00155** | **.00199** | **.00292** | **-.00017** | **-.00008** | **.00159** | **.00483** | **.00002** | **.00029** |
| Stddev | .00044 | .00019 | .00106 | .00017 | .00024 | .00003 | .00100 | .00013 | .00003 | .00007 |
| %RSD | 122.99 | 12.562 | 53.571 | 5.9885 | 140.81 | 42.078 | 62.858 | 2.6439 | 151.51 | 24.815 |
| #1 | -.00005 | .00141 | .00274 | .00304 | .00000 | -.00011 | .00088 | .00492 | .00004 | .00034 |
| #2 | -.00067 | .00168 | .00123 | .00280 | -.00034 | -.00006 | .00229 | .00474 | .00000 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **-.00061** | **.00381** | **.11086** | **-.00003** | **.00046** | **.00012** | **-.00004** | **.11018** | **.00019** |
| Stddev | .00008 | .00030 | .00276 | .00610 | .00090 | .00060 | .00000 | .00016 | .00253 | .00003 |
| %RSD | 388.61 | 49.093 | 72.526 | 5.5002 | 2586.1 | 130.06 | 2.5301 | 441.74 | 2.2963 | 14.589 |
| #1 | -.00008 | -.00082 | .00185 | .11517 | .00060 | .00004 | .00012 | .00008 | .11197 | .00017 |
| #2 | .00004 | -.00040 | .00576 | .10655 | -.00067 | .00088 | .00012 | -.00015 | .10839 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00217** | **-.00002** | **.00973** | **-.00116** | **.00149** | **.00136** | **.00291** | **.00021** | **.00001** | **.00185** |
| Stddev | .00025 | .00010 | .00292 | .00226 | .00249 | .00631 | .01350 | .00005 | .00006 | .00103 |
| %RSD | 11.439 | 413.18 | 29.991 | 194.41 | 167.36 | 463.77 | 463.77 | 24.738 | 683.44 | 55.578 |
| #1 | .00200 | -.00009 | .01179 | -.00277 | -.00027 | .00582 | .01245 | .00025 | -.00003 | .00257 |
| #2 | .00235 | .00004 | .00767 | .00044 | .00325 | -.00310 | -.00663 | .00018 | .00005 | .00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **-.00093** | **.01688** | **.00075** | **.00163** | **-.00083** |
| Stddev | .00016 | .00126 | .02846 | .00028 | .00028 | .00036 |
| %RSD | 51.526 | 135.22 | 168.58 | 37.154 | 17.012 | 43.570 |
| #1 | .00020 | -.00182 | -.00324 | .00094 | .00143 | -.00109 |
| #2 | .00044 | -.00004 | .03701 | .00055 | .00182 | -.00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9374.3** | **121050.** | **10045.** |
| Stddev | 24.7 | 48. | 57. |
| %RSD | .26378 | .03968 | .56985 |
| #1 | 9356.9 | 121010. | 10004. |
| #2 | 9391.8 | 121080. | 10085. |

Sample Name: lcs 280-186933/2-a  Acquired: 8/14/2013 20:21:15  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05098** | **2.0474** | **1.0346** | **1.0021** | **2.0138** | **.05124** | **2.1198** | **51.270** | **.10912** | **.51602** |
| Stddev | .00035 | .0055 | .0031 | .0027 | .0010 | .00008 | .0017 | .020 | .00033 | .00078 |
| %RSD | .67789 | .26812 | .29560 | .27371 | .04800 | .16459 | .07850 | .03914 | .30170 | .15161 |
| #1 | .05123 | 2.0513 | 1.0368 | 1.0001 | 2.0132 | .05118 | 2.1186 | 51.284 | .10935 | .51657 |
| #2 | .05074 | 2.0435 | 1.0324 | 1.0040 | 2.0145 | .05130 | 2.1210 | 51.256 | .10888 | .51547 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20597** | **.26534** | **1.0451** | **52.198** | **1.0192** | **50.297** | **.52291** | **.99384** | **51.800** | **.50673** |
| Stddev | .00014 | .00104 | .0014 | .087 | .0014 | .003 | .00038 | .00203 | .250 | .00147 |
| %RSD | .06780 | .39158 | .12905 | .16710 | .13371 | .00650 | .07294 | .20432 | .48260 | .28949 |
| #1 | .20587 | .26461 | 1.0461 | 52.136 | 1.0202 | 50.295 | .52318 | .99240 | 51.624 | .50569 |
| #2 | .20607 | .26608 | 1.0442 | 52.259 | 1.0182 | 50.300 | .52264 | .99527 | 51.977 | .50777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.276** | **.51425** | **.01056** | **.50167** | **2.0312** | **10.004** | **21.408** | **1.9686** | **1.0510** | **.99463** |
| Stddev | .033 | .00078 | .00133 | .00168 | .0048 | .015 | .032 | .0018 | .0011 | .00099 |
| %RSD | .31929 | .15178 | 12.591 | .33502 | .23698 | .14848 | .14848 | .08988 | .10317 | .09906 |
| #1 | 10.252 | .51481 | .00962 | .50048 | 2.0346 | 9.9931 | 21.385 | 1.9699 | 1.0502 | .99533 |
| #2 | 10.299 | .51370 | .01150 | .50286 | 2.0278 | 10.014 | 21.430 | 1.9674 | 1.0517 | .99394 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0443** | **2.0481** | **2.1910** | **.52914** | **.50350** | **.51726** |
| Stddev | .0022 | .0020 | .0170 | .00117 | .00117 | .00121 |
| %RSD | .20684 | .09896 | .77426 | .22186 | .23228 | .23332 |
| #1 | 1.0458 | 2.0495 | 2.1790 | .52997 | .50433 | .51811 |
| #2 | 1.0428 | 2.0467 | 2.2030 | .52831 | .50267 | .51640 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8985.1** | **112860.** | **9832.5** |
| Stddev | 9.6 | 334. | 24.2 |
| %RSD | .10738 | .29601 | .24604 |
| #1 | 8978.3 | 112620. | 9849.6 |
| #2 | 8991.9 | 113090. | 9815.4 |

Sample Name: lcsd 280-186933/3-a Acquired: 8/14/2013 20:23:22 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05097** | **2.0489** | **1.0419** | **1.0026** | **2.0133** | **.05138** | **2.1258** | **51.153** | **.10909** | **.51589** |
| Stddev | .00033 | .0000 | .0004 | .0021 | .0007 | .00017 | .0001 | .065 | .00009 | .00058 |
| %RSD | .64334 | .00210 | .04360 | .20683 | .03668 | .33255 | .00313 | .12665 | .08337 | .11235 |
| #1 | .05074 | 2.0489 | 1.0416 | 1.0011 | 2.0128 | .05150 | 2.1258 | 51.107 | .10915 | .51548 |
| #2 | .05121 | 2.0488 | 1.0422 | 1.0040 | 2.0138 | .05126 | 2.1259 | 51.199 | .10902 | .51630 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20572** | **.26407** | **1.0308** | **52.181** | **1.0232** | **50.376** | **.52102** | **.99679** | **51.940** | **.50722** |
| Stddev | .00032 | .00019 | .0072 | .074 | .0014 | .092 | .00063 | .00195 | .297 | .00030 |
| %RSD | .15439 | .07103 | .69726 | .14218 | .13833 | .18302 | .12108 | .19589 | .57193 | .05938 |
| #1 | .20550 | .26393 | 1.0359 | 52.234 | 1.0222 | 50.441 | .52147 | .99541 | 51.730 | .50701 |
| #2 | .20595 | .26420 | 1.0258 | 52.129 | 1.0242 | 50.310 | .52058 | .99817 | 52.150 | .50744 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.311** | **.51535** | **-.00235** | **.49745** | **2.0288** | **10.041** | **21.487** | **1.9690** | **1.0500** | **.98719** |
| Stddev | .007 | .00108 | .00256 | .00119 | .0098 | .041 | .088 | .0098 | .0022 | .00002 |
| %RSD | .06784 | .20874 | 108.80 | .23929 | .48080 | .40784 | .40784 | .49879 | .21121 | .00196 |
| #1 | 10.306 | .51459 | -.00054 | .49829 | 2.0219 | 10.012 | 21.425 | 1.9620 | 1.0484 | .98718 |
| #2 | 10.316 | .51611 | -.00417 | .49660 | 2.0357 | 10.070 | 21.549 | 1.9759 | 1.0515 | .98720 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0362** | **2.0388** | **2.1891** | **.52681** | **.50361** | **.51968** |
| Stddev | .0005 | .0024 | .0149 | .00106 | .00055 | .00231 |
| %RSD | .05055 | .12006 | .67929 | .20102 | .10826 | .44462 |
| #1 | 1.0358 | 2.0405 | 2.1786 | .52606 | .50322 | .51804 |
| #2 | 1.0365 | 2.0370 | 2.1996 | .52756 | .50399 | .52131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8918.2** | **112510.** | **9847.3** |
| Stddev | 35.1 | 438. | 19.4 |
| %RSD | .39371 | .38932 | .19720 |
| #1 | 8943.0 | 112200. | 9833.6 |
| #2 | 8893.4 | 112820. | 9861.0 |

Sample Name: 280-45382-a-1-a  Acquired: 8/14/2013 20:25:28  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03389** | **44.042** | **.03190** | **.87676** | **.28919** | **.00158** | **.00819** | **66.674** | W **2.8711** | **.04062** |
| Stddev | .00040 | .179 | .00042 | .00229 | .00136 | .00006 | .00404 | .254 | .0038 | .00040 |
| %RSD | 1.1900 | .40609 | 1.3062 | .26078 | .47064 | 3.6420 | 49.295 | .38120 | .13164 | .98432 |
| #1 | .03361 | 43.915 | .03161 | .87515 | .28822 | .00162 | .01105 | 66.494 | 2.8738 | .04034 |
| #2 | .03418 | 44.168 | .03220 | .87838 | .29015 | .00153 | .00534 | 66.854 | 2.8684 | .04091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 2.0000 | |
| Low Limit | | | | | | | | | -.00500 | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11647** | W **16.326** | **50.835** | W **433.51** | **.07141** | **23.982** | **1.8291** | **2.7673** | W **1694.4** | **.05578** |
| Stddev | .00036 | .139 | .462 | 1.09 | .00085 | .018 | .0020 | .0027 | 7.2 | .00059 |
| %RSD | .30795 | .85084 | .90958 | .25117 | 1.1882 | .07442 | .10788 | .09577 | .42620 | 1.0639 |
| #1 | .11621 | 16.228 | 50.508 | 432.74 | .07201 | 23.970 | 1.8277 | 2.7692 | 1689.3 | .05536 |
| #2 | .11672 | 16.425 | 51.162 | 434.28 | .07081 | 23.995 | 1.8304 | 2.7655 | 1699.5 | .05620 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | 10.000 | | 100.00 | | | | | 500.00 | |
| Low Limit | | -.01000 | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **155.46** | **.03584** | F **1506.1** | W **-.01333** | **.02287** | W **56.773** | **121.49** | **1.6071** | **.60569** | **.01984** |
| Stddev | .15 | .00116 | 4.5 | .00016 | .00006 | .047 | .10 | .0115 | .00299 | .00071 |
| %RSD | .09766 | 3.2272 | .29764 | 1.1865 | .25158 | .08263 | .08263 | .71826 | .49360 | 3.5565 |
| #1 | 155.57 | .03665 | 1509.3 | -.01344 | .02291 | 56.740 | 121.42 | 1.5989 | .60358 | .02033 |
| #2 | 155.35 | .03502 | 1502.9 | -.01322 | .02283 | 56.806 | 121.57 | 1.6153 | .60780 | .01934 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | 200.00 | 2.0000 | | 50.000 | | | | |
| Low Limit | -2.0000 | | -.20000 | -.01000 | | -.10000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6301** | **-.00005** | **-.04350** | **.08602** | **.63916** | **.01551** |
| Stddev | .0026 | .00108 | .04075 | .00000 | .00090 | .00078 |
| %RSD | .15978 | 1963.7 | 93.676 | .00074 | .14144 | 5.0114 |
| #1 | 1.6283 | -.00082 | -.07231 | .08602 | .63852 | .01606 |
| #2 | 1.6319 | .00071 | -.01469 | .08602 | .63980 | .01496 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8496.9** | **103220.** | **9849.9** |
| Stddev | 15.6 | 190. | 54.3 |
| %RSD | .18373 | .18374 | .55085 |
| #1 | 8508.0 | 103090. | 9811.5 |
| #2 | 8485.9 | 103360. | 9888.2 |

Sample Name: 280-45382-a-2-a  Acquired: 8/14/2013 20:28:31  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.04534** | k **33.319** | k **.09909** | **1.2323** | k **.86258** | k **.01402** | kF **.24739** | **324.98** | k **.05444** | kW **3.6125** |
| Stddev | .00041 | .135 | .00207 | .0020 | .00516 | .00004 | .00183 | 1.69 | .00009 | .0096 |
| %RSD | .91322 | .40553 | 2.0887 | .16074 | .59789 | .25836 | .73864 | .51871 | .17399 | .26483 |
| #1 | k .04564 | k 33.223 | k .09762 | 1.2309 | k .85893 | k .01400 | k .24869 | 326.17 | k .05450 | k 3.6057 |
| #2 | k .04505 | k 33.414 | k .10055 | 1.2337 | k .86622 | k .01405 | k .24610 | 323.79 | k .05437 | k 3.6193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .10000 | | | 1.0000 |
| Low Limit | | | | | | | -.10000 | | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **7.1070** | F **78.358** | k **147.30** | W **268.99** | k **.25169** | k **53.456** | ^ ***** | k **.17612** | W **1530.6** | k **1.8171** |
| Stddev | .0248 | .212 | .35 | 1.31 | .00360 | .046 | ----- | .00048 | 6.2 | .0055 |
| %RSD | .34861 | .27071 | .23536 | .48613 | 1.4294 | .08629 | ----- | .27095 | .40743 | .30312 |
| #1 | k 7.0895 | 78.508 | k 147.06 | 268.07 | k .24914 | k 53.489 | ^ ----- | k .17578 | 1526.2 | k 1.8132 |
| #2 | k 7.1245 | 78.208 | k 147.55 | 269.92 | k .25423 | k 53.424 | ^ ----- | k .17645 | 1535.0 | k 1.8210 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | 50.000 | | 100.00 | | | | | 500.00 | |
| Low Limit | | -.02000 | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **13.946** | k **1.1261** | kF **1259.6** | k **.21780** | k **.33094** | k **12.946** | k **27.705** | F **221.75** | **1.8589** | k **.24517** |
| Stddev | .042 | .0037 | 4.3 | .00025 | .00139 | .089 | .190 | .37 | .0053 | .00007 |
| %RSD | .29869 | .32845 | .34300 | .11358 | .42117 | .68553 | .68553 | .16712 | .28332 | .02901 |
| #1 | 13.917 | k 1.1235 | k 1262.6 | k .21798 | k .32995 | k 12.884 | k 27.571 | 221.49 | 1.8552 | k .24512 |
| #2 | 13.975 | k 1.1288 | k 1256.5 | k .21763 | k .33192 | k 13.009 | k 27.839 | 222.02 | 1.8627 | k .24522 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | 20.000 | | |
| Low Limit | -1.0000 | | -.20000 | | | | | -.10000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **2.1905** | k **.29652** | kF **-.75005** | k **.10007** | kW **47.481** | k **.09661** |
| Stddev | .0076 | .00183 | .00695 | .00070 | .086 | .00019 |
| %RSD | .34790 | .61675 | .92594 | .69505 | .18009 | .19734 |
| #1 | k 2.1959 | k .29782 | k -.75496 | k .09958 | k 47.541 | k .09647 |
| #2 | k 2.1851 | k .29523 | k -.74514 | k .10056 | k 47.420 | k .09674 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 50.000 | | 10.000 | |
| Low Limit | | | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7971.9** | **98506.** | **9649.4** |
| Stddev | 2.7 | 165. | 40.6 |
| %RSD | .03362 | .16787 | .42119 |
| #1 | 7970.0 | 98389. | 9620.6 |
| #2 | 7973.8 | 98623. | 9678.1 |

Sample Name: 280-45382-a-3-a  Acquired: 8/14/2013 20:31:37  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.02347** | k **8.3462** | k **.01297** | **.78973** | k **.51725** | k **.00009** | kW **.05088** | **189.28** | k **.01816** | k **.00724** |
| Stddev | .00044 | .0187 | .00514 | .00174 | .00040 | .00006 | .00230 | .80 | .00008 | .00014 |
| %RSD | 1.8876 | .22471 | 39.641 | .22092 | .07813 | 65.629 | 4.5145 | .42293 | .41450 | 1.9215 |
| #1 | k .02378 | k 8.3595 | k .01661 | .78849 | k .51754 | k .00014 | k .05250 | 188.72 | k .01822 | k .00734 |
| #2 | k .02315 | k 8.3330 | k .00934 | .79096 | k .51697 | k .00005 | k .04925 | 189.85 | k .01811 | k .00715 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.11818** | k **.05878** | k **234.34** | **84.374** | k **.08248** | k **315.75** | ^ ***** | k **-.00264** | F **10007.** | k **.11988** |
| Stddev | .00085 | .00073 | .03 | 1.510 | .00133 | 3.44 | ----- | .00063 | 216. | .00025 |
| %RSD | .71733 | 1.2441 | .01387 | 1.7896 | 1.6073 | 1.0902 | ----- | 23.856 | 2.1604 | .20781 |
| #1 | k .11878 | k .05930 | k 234.32 | 85.441 | k .08342 | k 318.18 | ^ ----- | k -.00220 | 9854.4 | k .12006 |
| #2 | k .11758 | k .05826 | k 234.37 | 83.306 | k .08155 | k 313.31 | ^ ----- | k -.00309 | 10160. | k .11971 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | 10000. | |
| Low Limit | | | | | | | | | 9.0000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **208.89** | k **.16080** | kF **249.40** | k **.04936** | k **.20326** | **12.194** | **26.096** | F **331.00** | **3.4406** | k **.18618** |
| Stddev | .37 | .00036 | .64 | .00404 | .00197 | .080 | .170 | 4.88 | .0067 | .00096 |
| %RSD | .17741 | .22167 | .25626 | 8.1803 | .96718 | .65290 | .65290 | 1.4754 | .19617 | .51451 |
| #1 | 209.15 | k .16105 | k 248.95 | k .05222 | k .20465 | 12.138 | 25.975 | 334.46 | 3.4358 | k .18550 |
| #2 | 208.63 | k .16055 | k 249.85 | k .04651 | k .20187 | 12.251 | 26.216 | 327.55 | 3.4454 | k .18686 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | 50.000 | | 200.00 | | | | | 20.000 | | |
| Low Limit | -2.0000 | | -.20000 | | | | | -.10000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.18549** | k **.21708** | kF **-1.6110** | kF **-.09918** | k **1.3432** | k **.19916** |
| Stddev | .00018 | .00319 | .0726 | .00109 | .0047 | .00133 |
| %RSD | .09570 | 1.4687 | 4.5049 | 1.0976 | .34851 | .67020 |
| #1 | k .18536 | k .21934 | k -1.5596 | k -.09841 | k 1.3465 | k .20011 |
| #2 | k .18561 | k .21483 | k -1.6623 | k -.09995 | k 1.3399 | k .19822 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | 50.000 | | |
| Low Limit | | | -.10000 | -.02000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **6933.1** | **80899.** | **9256.9** |
| Stddev | 53.6 | 434. | 46.7 |
| %RSD | .77250 | .53692 | .50415 |
| #1 | 6895.3 | 80592. | 9289.9 |
| #2 | 6971.0 | 81206. | 9223.9 |

Sample Name: 280-45382-a-4-a  Acquired: 8/14/2013 20:34:55  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .00077 | 1.5585 | .00839 | .27358 | .06031 | .00000 | -.00025 | 56.673 | .00125 | .00156 |
| Stddev | .00052 | .0047 | .00097 | .00000 | .00025 | .00004 | .00142 | .019 | .00005 | .00007 |
| %RSD | 68.147 | .29956 | 11.532 | .00156 | .41692 | 3585.7 | 562.55 | .03334 | 3.8945 | 4.6906 |
| #1 | .00114 | 1.5618 | .00770 | .27359 | .06049 | .00003 | .00075 | 56.686 | .00122 | .00161 |
| #2 | .00040 | 1.5552 | .00907 | .27358 | .06014 | -.00003 | -.00126 | 56.659 | .00129 | .00151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .01087 | .12691 | 7.6315 | 7.7692 | .03970 | 19.568 | .36093 | .03523 | RW 2202.5 | .01092 |
| Stddev | .00009 | .00067 | .0069 | .1065 | .00005 | .104 | .00096 | .00025 | 3.2 | .00026 |
| %RSD | .84026 | .53018 | .09092 | 1.3707 | .13137 | .53199 | .26466 | .71173 | .14467 | 2.3747 |
| #1 | .01093 | .12643 | 7.6266 | 7.6939 | .03966 | 19.642 | .36160 | .03505 | 2204.8 | .01074 |
| #2 | .01081 | .12738 | 7.6364 | 7.8445 | .03973 | 19.494 | .36025 | .03541 | 2200.3 | .01111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .41509 | .00944 | F 289.31 | .00008 | .00473 | 9.9414 | 21.275 | .16976 | .33531 | -.00060 |
| Stddev | .00163 | .00026 | .93 | .00213 | .00010 | .0482 | .103 | .02657 | .00125 | .00278 |
| %RSD | .39259 | 2.7483 | .31995 | 2675.0 | 2.1778 | .48504 | .48504 | 15.650 | .37249 | 465.55 |
| #1 | .41624 | .00926 | 289.96 | -.00143 | .00466 | 9.9073 | 21.202 | .15097 | .33619 | .00137 |
| #2 | .41393 | .00962 | 288.65 | .00159 | .00480 | 9.9755 | 21.348 | .18854 | .33443 | -.00256 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .06343 | -.00016 | -.00663 | .00643 | .28455 | .00204 |
| Stddev | .00014 | .00113 | .02130 | .00050 | .00308 | .00017 |
| %RSD | .22656 | 722.83 | 321.23 | 7.7035 | 1.0816 | 8.5314 |
| #1 | .06353 | .00064 | -.02169 | .00608 | .28672 | .00216 |
| #2 | .06333 | -.00095 | .00843 | .00678 | .28237 | .00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8014.4 | 96992. | 9516.4 |
| Stddev | 24.8 | 359. | 57.6 |
| %RSD | .30923 | .37003 | .60535 |
| #1 | 8031.9 | 96738. | 9557.1 |
| #2 | 7996.9 | 97246. | 9475.7 |

Sample Name: 280-45382-a-4-aSD@5 Acquired: 8/14/2013 20:37:52 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00033** | **.33636** | **.00472** | **.05956** | **.01226** | **.00001** | **.00125** | **11.389** | **.00003** | **.00046** |
| Stddev | .00084 | .00023 | .00295 | .00004 | .00001 | .00008 | .00003 | .024 | .00015 | .00006 |
| %RSD | 253.43 | .06795 | 62.368 | .05906 | .10025 | 1121.1 | 2.6617 | .20652 | 482.38 | 13.083 |
| #1 | -.00026 | .33652 | .00264 | .05953 | .01227 | -.00005 | .00123 | 11.372 | .00014 | .00050 |
| #2 | -.00093 | .33620 | .00681 | .05958 | .01225 | .00006 | .00128 | 11.406 | -.00007 | .00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00211** | **.02512** | **1.5534** | **2.1525** | **.01098** | **3.9286** | **.07226** | **.00701** | **435.45** | **.00232** |
| Stddev | .00004 | .00010 | .0089 | .0940 | .00099 | .0014 | .00011 | .00004 | .16 | .00026 |
| %RSD | 1.9405 | .41185 | .57438 | 4.3673 | 9.0390 | .03534 | .15821 | .50246 | .03612 | 11.205 |
| #1 | .00213 | .02505 | 1.5470 | 2.2189 | .01028 | 3.9296 | .07218 | .00698 | 435.34 | .00214 |
| #2 | .00208 | .02520 | 1.5597 | 2.0860 | .01169 | 3.9276 | .07234 | .00703 | 435.56 | .00251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08190** | **.00186** | **55.719** | **.00004** | **.00304** | **1.9612** | **4.1970** | **.04099** | **.06680** | **-.00170** |
| Stddev | .00049 | .00156 | .049 | .00140 | .00136 | .0231 | .0494 | .00704 | .00002 | .00050 |
| %RSD | .59863 | 83.786 | .08749 | 3135.6 | 44.824 | 1.1776 | 1.1776 | 17.182 | .03678 | 29.410 |
| #1 | .08225 | .00297 | 55.684 | -.00094 | .00208 | 1.9449 | 4.1620 | .03601 | .06681 | -.00134 |
| #2 | .08155 | .00076 | 55.753 | .00103 | .00400 | 1.9775 | 4.2319 | .04597 | .06678 | -.00205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01334** | **-.00123** | **.03991** | **.00226** | **.05757** | **-.00092** |
| Stddev | .00211 | .00098 | .04124 | .00035 | .00029 | .00037 |
| %RSD | 15.809 | 79.794 | 103.32 | 15.297 | .50579 | 40.012 |
| #1 | .01484 | -.00054 | .01075 | .00250 | .05736 | -.00066 |
| #2 | .01185 | -.00193 | .06907 | .00201 | .05777 | -.00118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8573.2** | **106330.** | **9500.7** |
| Stddev | 24.1 | 90. | 47.8 |
| %RSD | .28149 | .08436 | .50322 |
| #1 | 8556.1 | 106270. | 9466.9 |
| #2 | 8590.2 | 106390. | 9534.5 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 20:40:16 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **50.568** | **.00156** | **.00428** | **.00040** | **-.00008** | **1.0118** | **-.00857** | **-.00022** | **.00031** | **-.00018** | **.00251** | **49.734** |
| Stddev | .00058 | .023 | .00110 | .00010 | .00002 | .00009 | .0012 | .00324 | .00009 | .00003 | .00011 | .00052 | .073 |
| %RSD | 46.632 | .04561 | 70.812 | 2.2847 | 4.9054 | 118.31 | .12282 | 37.733 | 41.862 | 10.014 | 63.149 | 20.833 | .14684 |
| #1 | .00083 | 50.551 | .00078 | .00435 | .00039 | -.00001 | 1.0127 | -.00629 | -.00028 | .00029 | -.00010 | .00214 | 49.786 |
| #2 | .00166 | 50.584 | .00234 | .00421 | .00042 | -.00014 | 1.0109 | -.01086 | -.00015 | .00034 | -.00025 | .00288 | 49.683 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.87696** | **.00199** | **-.01071** | **.00211** | **.00007** | **251.01** | **.00079** | **.00427** | **.00223** | **5.1600** | **.00125** | **-.00149** | **-.00606** |
| Stddev | .00057 | .00171 | .00304 | .00056 | .00015 | 1.08 | .00005 | .00085 | .00006 | .0158 | .00018 | .00035 | .00105 |
| %RSD | .06553 | 85.911 | 28.405 | 26.757 | 204.36 | .42953 | 5.8917 | 19.946 | 2.5528 | .30535 | 14.448 | 23.756 | 17.384 |
| #1 | .87655 | .00320 | -.01286 | .00171 | -.00003 | 250.25 | .00076 | .00487 | .00227 | 5.1711 | .00138 | -.00124 | -.00532 |
| #2 | .87737 | .00078 | -.00856 | .00251 | .00018 | 251.77 | .00082 | .00367 | .00219 | 5.1489 | .00113 | -.00174 | -.00681 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01297** | **.01730** | **.00035** | **4.9386** | **-.00051** | **-.00006** | **10.110** | **.00142** | **.00038** | **.02790** |
| Stddev | .00226 | .00208 | .00002 | .0019 | .00006 | .00023 | .012 | .00022 | .00031 | .00301 |
| %RSD | 17.384 | 12.022 | 5.2251 | .03816 | 12.127 | 406.13 | .11723 | 15.422 | 82.072 | 10.793 |
| #1 | -.01138 | .01583 | .00034 | 4.9399 | -.00055 | -.00022 | 10.119 | .00126 | .00061 | .02577 |
| #2 | -.01457 | .01877 | .00036 | 4.9373 | -.00046 | .00011 | 10.102 | .00157 | .00016 | .03002 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8905.0** | **111170.** | **9622.4** |
| Stddev | 19.9 | 263. | 53.5 |
| %RSD | .22317 | .23611 | .55633 |
| #1 | 8919.0 | 110990. | 9660.2 |
| #2 | 8890.9 | 111360. | 9584.5 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 20:42:38 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50007** | **.51939** | **.98801** | **.50272** | **.48474** | **.49827** | **.00130** | **4.9957** | **.50483** | **.51012** | **.49793** | **.50961** | **2.5080** |
| Stddev | .00111 | .00026 | .00323 | .00111 | .00058 | .00018 | .00029 | .0020 | .00012 | .00036 | .00072 | .00171 | .0040 |
| %RSD | .22276 | .04981 | .32730 | .22178 | .11977 | .03679 | 22.369 | .03934 | .02305 | .07144 | .14468 | .33643 | .15926 |
| #1 | .50086 | .51957 | .98572 | .50351 | .48515 | .49840 | .00151 | 4.9943 | .50491 | .51037 | .49844 | .51082 | 2.5108 |
| #2 | .49928 | .51921 | .99029 | .50193 | .48433 | .49815 | .00110 | 4.9970 | .50474 | .50986 | .49742 | .50840 | 2.5051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.186** | **.98705** | **19.431** | **.50600** | **.49405** | F **6.2419** | **.50309** | **.97815** | **1.0166** | **.05618** | **1.0246** | **.99511** | **4.9365** |
| Stddev | .017 | .00002 | .013 | .00019 | .00090 | .0015 | .00052 | .00237 | .0017 | .00332 | .0043 | .00373 | .0134 |
| %RSD | .03386 | .00188 | .06450 | .03737 | .18241 | .02485 | .10401 | .24255 | .16670 | 5.9152 | .41537 | .37474 | .27057 |
| #1 | 50.174 | .98704 | 19.440 | .50614 | .49469 | 6.2408 | .50346 | .97982 | 1.0178 | .05853 | 1.0276 | .99774 | 4.9270 |
| #2 | 50.198 | .98707 | 19.422 | .50587 | .49341 | 6.2430 | .50272 | .97647 | 1.0154 | .05383 | 1.0216 | .99247 | 4.9459 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 5.0000 | | | | | | | |
| Range | | | | | | 10.490% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.564** | **1.0017** | **.50403** | **-.00504** | **.50864** | **1.0347** | **.05389** | **.50197** | **.48856** | **.50685** |
| Stddev | .029 | .0041 | .00036 | .00170 | .00092 | .0052 | .02060 | .00169 | .00107 | .00011 |
| %RSD | .27057 | .41032 | .07122 | 33.771 | .18170 | .50615 | 38.233 | .33609 | .21871 | .02074 |
| #1 | 10.544 | 1.0046 | .50428 | -.00624 | .50930 | 1.0384 | .06846 | .50317 | .48932 | .50677 |
| #2 | 10.584 | .99883 | .50378 | -.00384 | .50799 | 1.0310 | .03932 | .50078 | .48781 | .50692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9043.3** | **114940.** | **9708.8** |
| Stddev | 9.8 | 117. | 61.1 |
| %RSD | .10844 | .10145 | .62951 |
| #1 | 9036.4 | 114860. | 9752.0 |
| #2 | 9050.3 | 115030. | 9665.6 |

Sample Name: CCB  Acquired: 8/14/2013 20:44:45  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **-.00014** | **.00272** | **.00310** | **-.00016** | **.00000** | **-.00030** | **-.00359** | **-.00014** | **.00025** | **-.00020** | **-.00056** |
| Stddev | .00028 | .00017 | .00103 | .00065 | .00002 | .0000 | .00156 | .00274 | .00005 | .00018 | .00000 | .00013 |
| %RSD | 93.175 | 121.65 | 37.777 | 21.045 | 15.208 | 218.19 | 525.35 | 76.226 | 32.763 | 70.238 | .63665 | 23.503 |
| #1 | -.00010 | -.00026 | .00345 | .00264 | -.00014 | -.00001 | .00081 | -.00166 | -.00011 | .00013 | -.00020 | -.00066 |
| #2 | -.00050 | -.00002 | .00200 | .00356 | -.00017 | .00000 | -.00140 | -.00553 | -.00018 | .00037 | -.00020 | -.00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | F **.45613** | **-.00113** | **-.00070** | **.00019** | **.00070** | F **.98988** | **-.00003** | **.00198** | **-.00051** | **.04128** | W **.00384** |
| Stddev | .00099 | .07651 | .00157 | .00190 | .00000 | .00017 | .01407 | .00041 | .00192 | .00094 | .00087 | .00027 |
| %RSD | 611.72 | 16.774 | 138.49 | 271.99 | 1.6842 | 24.019 | 1.4216 | 1210.5 | 96.710 | 183.46 | 2.0955 | 6.9786 |
| #1 | -.00054 | .51023 | -.00224 | -.00205 | .00019 | .00058 | .99983 | -.00032 | .00063 | -.00117 | .04190 | .00403 |
| #2 | .00086 | .40203 | -.00002 | .00065 | .00019 | .00082 | .97993 | .00025 | .00334 | .00015 | .04067 | .00365 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | .25000 | | | | | .18320 | | | | | .00314 |
| Low Limit | | -.25000 | | | | | -.18320 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00480** | **-.00170** | **-.00365** | W **.01041** | **.00003** | **-.00035** | **-.00019** | **-.00134** | **-.00040** | **.00048** | **.00219** | **-.00229** |
| Stddev | .00203 | .01083 | .02318 | .00243 | .00008 | .00089 | .00016 | .00112 | .01289 | .00012 | .00003 | .00019 |
| %RSD | 42.188 | 635.27 | 635.27 | 23.298 | 283.64 | 253.33 | 85.671 | 83.583 | 3226.4 | 25.100 | 1.4726 | 8.4064 |
| #1 | .00337 | .00595 | .01274 | .00870 | .00008 | -.00098 | -.00007 | -.00214 | .00872 | .00056 | .00217 | -.00216 |
| #2 | .00623 | -.00936 | -.02004 | .01213 | -.00003 | .00028 | -.00030 | -.00055 | -.00951 | .00039 | .00221 | -.00243 |
| Check ? | Chk Pass | Chk Pass | None | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00583 | | | | | | | | |
| Low Limit | | | | -.00583 | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9093.2** | **117490.** | **9596.6** |
| Stddev | 14.7 | 112. | 37.5 |
| %RSD | .16119 | .09532 | .39032 |
| #1 | 9103.5 | 117410. | 9623.1 |
| #2 | 9082.8 | 117570. | 9570.1 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 20:47:00 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01024** | **.10717** | **.01593** | **.09651** | **.00989** | **.00101** | **.10831** | **.20212** | **.00512** | **.01077** | **.01017** | **.01522** | **.10494** |
| Stddev | .00002 | .00033 | .00061 | .00001 | .00030 | .00005 | .00143 | .00320 | .00007 | .00021 | .00005 | .00013 | .00119 |
| %RSD | .23055 | .30384 | 3.8302 | .00788 | 3.0123 | 5.2402 | 1.3209 | 1.5812 | 1.3387 | 1.9108 | .50383 | .87383 | 1.1324 |
| #1 | .01022 | .10694 | .01550 | .09651 | .01010 | .00105 | .10730 | .19986 | .00507 | .01091 | .01020 | .01513 | .10410 |
| #2 | .01026 | .10740 | .01636 | .09650 | .00968 | .00097 | .10932 | .20438 | .00517 | .01062 | .01013 | .01532 | .10578 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.4443** | **.00954** | **.20052** | **.01044** | **.01949** | F **1.8821** | **.04156** | **2.7882** | **.00975** | **.03549** | **.01221** | **.01730** | **.47171** |
| Stddev | .0775 | .00198 | .00060 | .00006 | .00016 | .0199 | .00032 | .0060 | .00003 | .00086 | .00109 | .00067 | .00696 |
| %RSD | 2.2507 | 20.776 | .29776 | .55764 | .82739 | 1.0575 | .76245 | .21565 | .28849 | 2.4150 | 8.9410 | 3.8863 | 1.4762 |
| #1 | 3.3895 | .01094 | .20094 | .01048 | .01961 | 1.8961 | .04134 | 2.7840 | .00973 | .03488 | .01144 | .01682 | .46678 |
| #2 | 3.4991 | .00814 | .20010 | .01040 | .01938 | 1.8680 | .04179 | 2.7925 | .00977 | .03609 | .01299 | .01777 | .47663 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0095** | **.11283** | **.01024** | **.01533** | **.01018** | **.01532** | F **.09500** | **.01011** | **.02055** | **.01549** |
| Stddev | .0149 | .00332 | .00000 | .00177 | .00015 | .00133 | .00584 | .00014 | .00049 | .00057 |
| %RSD | 1.4762 | 2.9419 | .01981 | 11.564 | 1.4361 | 8.6679 | 6.1460 | 1.3870 | 2.3857 | 3.6671 |
| #1 | .99892 | .11048 | .01024 | .01408 | .01028 | .01438 | .09913 | .01001 | .02020 | .01589 |
| #2 | 1.0200 | .11518 | .01024 | .01658 | .01008 | .01626 | .09088 | .01021 | .02090 | .01509 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9146.8** | **117020.** | **9610.4** |
| Stddev | 19.1 | 178. | 24.5 |
| %RSD | .20906 | .15178 | .25538 |
| #1 | 9133.3 | 117150. | 9627.8 |
| #2 | 9160.3 | 116900. | 9593.1 |

Sample Name: 280-45382-a-5-a  Acquired: 8/14/2013 20:49:18  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00417** | **37.651** | **.40964** | **.74069** | **.80005** | **.00109** | **.01242** | W **628.97** | **1.0950** | **.11125** |
| Stddev | .00006 | .220 | .00072 | .00233 | .00512 | .00005 | .00188 | 6.53 | .0014 | .00048 |
| %RSD | 1.5514 | .58375 | .17530 | .31501 | .64051 | 4.4786 | 15.157 | 1.0383 | .12624 | .43098 |
| #1 | .00413 | 37.495 | .41015 | .73904 | .79643 | .00105 | .01375 | 624.35 | 1.0940 | .11092 |
| #2 | .00422 | 37.806 | .40913 | .74234 | .80368 | .00112 | .01109 | 633.58 | 1.0960 | .11159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 500.00 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46910** | **.73169** | **79.205** | **26.853** | **.07006** | **101.93** | **3.3557** | **.09977** | W **895.98** | **9.1123** |
| Stddev | .00126 | .00077 | 1.219 | .338 | .00419 | .28 | .0129 | .00008 | 2.73 | .0202 |
| %RSD | .26904 | .10545 | 1.5390 | 1.2599 | 5.9856 | .27543 | .38332 | .07747 | .30499 | .22199 |
| #1 | .46821 | .73115 | 78.343 | 26.613 | .06709 | 101.73 | 3.3466 | .09972 | 894.05 | 9.0980 |
| #2 | .47000 | .73224 | 80.067 | 27.092 | .07302 | 102.13 | 3.3648 | .09983 | 897.91 | 9.1266 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **66.119** | **5.5725** | F **252.80** | **.03560** | **.02884** | **49.838** | **106.65** | **.72218** | **1.1286** | **.00105** |
| Stddev | .087 | .0196 | .28 | .00027 | .00279 | .173 | .37 | .00381 | .0054 | .00071 |
| %RSD | .13222 | .35108 | .11273 | .75611 | 9.6715 | .34647 | .34647 | .52716 | .47659 | 67.438 |
| #1 | 66.057 | 5.5587 | 252.60 | .03579 | .02687 | 49.716 | 106.39 | .71949 | 1.1248 | .00055 |
| #2 | 66.180 | 5.5864 | 253.00 | .03541 | .03081 | 49.961 | 106.92 | .72488 | 1.1324 | .00155 |
| Check ? | Chk Fail | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | 200.00 | | | | | | | |
| Low Limit | -2.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4838** | **-.00355** | F **-.15155** | **.66174** | **6.8293** | **.02383** |
| Stddev | .0044 | .00080 | .01225 | .00224 | .0050 | .00123 |
| %RSD | .29820 | 22.401 | 8.0844 | .33846 | .07365 | 5.1474 |
| #1 | 1.4807 | -.00299 | -.14288 | .66015 | 6.8257 | .02470 |
| #2 | 1.4869 | -.00412 | -.16021 | .66332 | 6.8328 | .02297 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8546.8** | **105700.** | **10095.** |
| Stddev | 32.8 | 303. | 32. |
| %RSD | .38384 | .28690 | .31782 |
| #1 | 8570.0 | 105910. | 10118. |
| #2 | 8523.6 | 105480. | 10072. |

Sample Name: 280-45382-a-6-a  Acquired: 8/14/2013 20:51:50  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00106** | **9.1270** | **.02683** | **.56283** | **.38518** | **.00041** | **-.00420** | **97.961** | **.04045** | **.01479** |
| Stddev | .00038 | .0138 | .00016 | .00139 | .00071 | .00007 | .00125 | .147 | .00039 | .00019 |
| %RSD | 35.946 | .15135 | .60720 | .24613 | .18340 | 17.652 | 29.726 | .15057 | .96149 | 1.2620 |
| #1 | .00133 | 9.1368 | .02671 | .56381 | .38568 | .00046 | -.00508 | 98.065 | .04072 | .01492 |
| #2 | .00079 | 9.1172 | .02694 | .56185 | .38468 | .00036 | -.00331 | 97.857 | .04017 | .01466 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11650** | **1.7988** | **51.237** | **29.457** | **.03734** | **42.020** | **1.8294** | **.19081** | **320.18** | **.13039** |
| Stddev | .00034 | .0020 | .026 | .107 | .00034 | .001 | .0054 | .00046 | .02 | .00051 |
| %RSD | .29132 | .11049 | .05124 | .36244 | .89803 | .00165 | .29423 | .23913 | .00746 | .38844 |
| #1 | .11674 | 1.7974 | 51.219 | 29.533 | .03710 | 42.021 | 1.8256 | .19114 | 320.20 | .13075 |
| #2 | .11626 | 1.8002 | 51.256 | 29.382 | .03757 | 42.020 | 1.8332 | .19049 | 320.16 | .13003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.536** | **.05726** | F **276.00** | **.00368** | **.00783** | **33.661** | **72.035** | **.10038** | **.79570** | **-.00236** |
| Stddev | .006 | .00037 | .29 | .00016 | .00197 | .042 | .090 | .00074 | .00150 | .00272 |
| %RSD | .05071 | .63844 | .10370 | 4.2245 | 25.192 | .12533 | .12533 | .73582 | .18872 | 114.89 |
| #1 | 11.532 | .05700 | 275.80 | .00357 | .00643 | 33.691 | 72.099 | .09986 | .79676 | -.00044 |
| #2 | 11.540 | .05752 | 276.20 | .00379 | .00922 | 33.631 | 71.971 | .10090 | .79464 | -.00428 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26326** | **-.00140** | **-.02736** | **.03434** | W **15.273** | **.00215** |
| Stddev | .00044 | .00003 | .02774 | .00005 | .009 | .00109 |
| %RSD | .16615 | 2.3554 | 101.38 | .14669 | .05687 | 50.753 |
| #1 | .26295 | -.00142 | -.04698 | .03438 | 15.279 | .00138 |
| #2 | .26357 | -.00138 | -.00775 | .03431 | 15.267 | .00292 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 10.000 | |
| Low Limit | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8862.6** | **110560.** | **10057.** |
| Stddev | 7.7 | 60. | 36. |
| %RSD | .08725 | .05469 | .36030 |
| #1 | 8857.1 | 110600. | 10083. |
| #2 | 8868.0 | 110510. | 10031. |

Sample Name: 280-45382-a-7-a  Acquired: 8/14/2013 20:54:07  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **3.6697** | **.02447** | **.92017** | **.16080** | **.00016** | **-.00197** | **143.28** | **.00835** | **.01758** |
| Stddev | .00032 | .0142 | .00002 | .00203 | .00005 | .00002 | .00074 | .36 | .00007 | .00026 |
| %RSD | 153.64 | .38781 | .09614 | .22070 | .02889 | 14.053 | 37.761 | .25430 | .78329 | 1.5055 |
| #1 | -.00002 | 3.6797 | .02448 | .91873 | .16077 | .00018 | -.00250 | 143.02 | .00831 | .01739 |
| #2 | .00044 | 3.6596 | .02445 | .92160 | .16083 | .00015 | -.00144 | 143.54 | .00840 | .01777 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13694** | **.78665** | **32.242** | **25.880** | **.20075** | **379.04** | **1.4568** | **.23747** | W **973.83** | **.73101** |
| Stddev | .00087 | .00128 | .024 | .221 | .00074 | .07 | .0029 | .00093 | 2.77 | .00011 |
| %RSD | .63232 | .16251 | .07470 | .85403 | .36716 | .01742 | .20091 | .39316 | .28489 | .01495 |
| #1 | .13632 | .78755 | 32.225 | 25.723 | .20023 | 379.00 | 1.4589 | .23681 | 971.86 | .73093 |
| #2 | .13755 | .78574 | 32.259 | 26.036 | .20127 | 379.09 | 1.4547 | .23813 | 975.79 | .73108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3882** | **.01796** | F **1163.9** | **-.00348** | **.04762** | **10.318** | **22.081** | **.04500** | **2.2044** | **-.00173** |
| Stddev | .0048 | .00070 | 7.0 | .00010 | .00185 | .025 | .054 | .00055 | .0041 | .00122 |
| %RSD | .34674 | 3.9193 | .59832 | 3.0124 | 3.8797 | .24624 | .24624 | 1.2119 | .18480 | 70.216 |
| #1 | 1.3848 | .01846 | 1168.8 | -.00355 | .04631 | 10.336 | 22.120 | .04462 | 2.2015 | -.00260 |
| #2 | 1.3916 | .01746 | 1159.0 | -.00341 | .04893 | 10.300 | 22.043 | .04539 | 2.2073 | -.00087 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05359** | **-.00116** | **-.00404** | **.01913** | **1.4535** | **.00169** |
| Stddev | .00019 | .00017 | .01706 | .00013 | .0047 | .00153 |
| %RSD | .34761 | 14.425 | 422.21 | .70304 | .32367 | 90.740 |
| #1 | .05345 | -.00128 | .00802 | .01922 | 1.4568 | .00277 |
| #2 | .05372 | -.00105 | -.01610 | .01903 | 1.4501 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8225.6** | **100890.** | **9600.8** |
| Stddev | 9.1 | 228. | 85.8 |
| %RSD | .11077 | .22608 | .89404 |
| #1 | 8219.2 | 100730. | 9661.5 |
| #2 | 8232.1 | 101050. | 9540.1 |

Sample Name: 280-45382-a-8-a  Acquired: 8/14/2013 20:56:35  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00259** | k **13.604** | k **2.3453** | **3.0704** | **.32353** | k **.00022** | k **-.00458** | **278.18** | k **.03250** | k **.01877** |
| Stddev | .00009 | .001 | .0045 | .0026 | .00061 | .00001 | .00005 | .77 | .00031 | .00005 |
| %RSD | 3.3215 | .00392 | .19131 | .08303 | .18870 | 6.0763 | 1.1454 | .27656 | .94153 | .27479 |
| #1 | k .00253 | k 13.603 | k 2.3485 | 3.0722 | .32396 | k .00021 | k -.00462 | 278.72 | k .03229 | k .01873 |
| #2 | k .00265 | k 13.604 | k 2.3422 | 3.0686 | .32310 | k .00023 | k -.00454 | 277.64 | k .03272 | k .01881 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.12018** | k **1.2443** | k **44.208** | W **125.84** | k **.48912** | kW **768.25** | k **1.2222** | **.13328** | W **2907.1** | k **.30389** |
| Stddev | .00016 | .0047 | .080 | .04 | .00134 | 5.55 | .0026 | .00101 | 5.0 | .00145 |
| %RSD | .13571 | .38141 | .18049 | .03135 | .27341 | .72300 | .20928 | .76033 | .17141 | .47599 |
| #1 | k .12006 | k 1.2410 | k 44.152 | 125.87 | k .48817 | k 772.18 | k 1.2204 | .13256 | 2910.6 | k .30287 |
| #2 | k .12030 | k 1.2477 | k 44.264 | 125.81 | k .49007 | k 764.32 | k 1.2240 | .13399 | 2903.6 | k .30492 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | 500.00 | | | 500.00 | |
| Low Limit | | | | -.50000 | | -.10000 | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **1.7700** | k **.04302** | kF **1740.3** | k **.02188** | k **.07570** | k **29.020** | k **62.102** | k **.18581** | W **5.3130** | k **.03003** |
| Stddev | .0009 | .00209 | 9.6 | .00255 | .00134 | .042 | .091 | .00124 | .0207 | .00218 |
| %RSD | .05165 | 4.8533 | .55205 | 11.633 | 1.7765 | .14591 | .14591 | .66560 | .39040 | 7.2572 |
| #1 | k 1.7707 | k .04449 | k 1733.5 | k .02008 | k .07665 | k 29.050 | k 62.166 | k .18493 | 5.2983 | k .03158 |
| #2 | k 1.7694 | k .04154 | k 1747.1 | k .02368 | k .07475 | k 28.990 | k 62.038 | k .18668 | 5.3276 | k .02849 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 200.00 | | | | | | 5.0000 | |
| Low Limit | | | -.20000 | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.71071** | k **-.00196** | k **-.01933** | k **.04768** | k **1.4085** | k **.02647** |
| Stddev | .00215 | .00004 | .00741 | .00008 | .0018 | .00163 |
| %RSD | .30282 | 2.1457 | 38.310 | .16376 | .12802 | 6.1714 |
| #1 | k .70918 | k -.00199 | k -.01410 | k .04762 | k 1.4072 | k .02763 |
| #2 | k .71223 | k -.00193 | k -.02457 | k .04773 | k 1.4098 | k .02532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7608.6** | **94051.** | **9455.8** |
| Stddev | 6.2 | 165. | 10.2 |
| %RSD | .08115 | .17514 | .10744 |
| #1 | 7612.9 | 93935. | 9448.6 |
| #2 | 7604.2 | 94168. | 9463.0 |

Sample Name: 280-45382-a-9-a  Acquired: 8/14/2013 20:59:50  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00262** | k **22.470** | k **.05180** | **1.0570** | **.28144** | k **.00109** | k **-.00325** | **94.794** | k **.00376** | k **.01657** |
| Stddev | .00045 | .273 | .00255 | .0002 | .00362 | .00009 | .00103 | 1.091 | .00002 | .00016 |
| %RSD | 17.247 | 1.2166 | 4.9272 | .01936 | 1.2879 | 8.5439 | 31.728 | 1.1512 | .56695 | .93839 |
| #1 | k .00230 | k 22.276 | k .05360 | 1.0568 | .27888 | k .00102 | k -.00252 | 94.023 | k .00374 | k .01646 |
| #2 | k .00294 | k 22.663 | k .04999 | 1.0571 | .28400 | k .00116 | k -.00398 | 95.566 | k .00377 | k .01668 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.06588** | **.94053** | k **43.465** | **14.947** | k **.04356** | k **47.492** | k **1.5958** | k **.03640** | W **758.92** | k **.08616** |
| Stddev | .00030 | .00419 | .268 | .172 | .00032 | .045 | .0011 | .00001 | 8.13 | .00064 |
| %RSD | .44939 | .44553 | .61625 | 1.1497 | .72624 | .09550 | .06848 | .02818 | 1.0706 | .74229 |
| #1 | k .06609 | .93757 | k 43.275 | 14.826 | k .04334 | k 47.524 | k 1.5966 | .03639 | 753.17 | k .08661 |
| #2 | k .06567 | .94350 | k 43.654 | 15.069 | k .04379 | k 47.460 | k 1.5951 | k .03641 | 764.66 | k .08571 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **2.0327** | k **.04735** | kF **464.03** | k **.00390** | k **.00955** | k **46.069** | k **98.588** | k **.17195** | **.94254** | k **.04166** |
| Stddev | .0024 | .00178 | .95 | .00187 | .00223 | .450 | .963 | .00048 | .01164 | .00029 |
| %RSD | .11882 | 3.7532 | .20474 | 48.064 | 23.323 | .97639 | .97639 | .28170 | 1.2346 | .69135 |
| #1 | k 2.0345 | k .04861 | k 463.36 | k .00522 | k .01112 | k 45.751 | k 97.907 | k .17161 | .93431 | k .04146 |
| #2 | k 2.0310 | k .04609 | k 464.70 | k .00257 | k .00797 | k 46.387 | k 99.268 | k .17229 | .95077 | k .04187 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.38100** | k **-.00221** | k **.00356** | k **.07169** | k **.97286** | k **.02050** |
| Stddev | .00011 | .00150 | .01940 | .00055 | .00232 | .00004 |
| %RSD | .02923 | 67.776 | 544.84 | .76945 | .23825 | .18902 |
| #1 | k .38107 | k -.00115 | k -.01016 | k .07208 | k .97450 | k .02047 |
| #2 | k .38092 | k -.00327 | k .01728 | k .07130 | k .97122 | k .02053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8657.6** | **106450.** | **9784.0** |
| Stddev | 7.7 | 253. | 92.7 |
| %RSD | .08855 | .23772 | .94746 |
| #1 | 8652.2 | 106270. | 9849.6 |
| #2 | 8663.1 | 106630. | 9718.5 |

Sample Name: 280-45382-a-10-a  Acquired: 8/14/2013 21:02:07  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00303** | k **14.084** | kF **-.03180** | **1.8038** | **.62391** | k **.00083** | kW **.08104** | **293.92** | k **.03177** | k **.02674** |
| Stddev | .00058 | .025 | .00280 | .0031 | .00175 | .00006 | .00079 | .39 | .00015 | .00056 |
| %RSD | 19.232 | .17527 | 8.8196 | .17237 | .27979 | 7.3140 | .97385 | .13134 | .46570 | 2.0761 |
| #1 | k .00262 | k 14.066 | k -.02981 | 1.8016 | .62268 | k .00079 | k .08159 | 294.19 | k .03167 | k .02635 |
| #2 | k .00344 | k 14.101 | k -.03378 | 1.8060 | .62515 | k .00088 | k .08048 | 293.65 | k .03188 | k .02714 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | | .05000 | | | |
| Low Limit | | | -.02000 | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **18.203** | **2.1959** | k **42.082** | **56.138** | k **.10793** | k **129.14** | k **9.8288** | **.28804** | W **1804.8** | k **.37719** |
| Stddev | .013 | .0082 | .288 | .335 | .00088 | .65 | .1066 | .00101 | 4.9 | .00004 |
| %RSD | .07228 | .37525 | .68537 | .59647 | .81723 | .50044 | 1.0850 | .35125 | .27140 | .01039 |
| #1 | k 18.212 | 2.2017 | k 41.878 | 55.902 | k .10731 | k 129.60 | k 9.7534 | .28732 | 1801.4 | k .37717 |
| #2 | k 18.194 | 2.1901 | k 42.286 | 56.375 | k .10856 | k 128.69 | k 9.9042 | .28875 | 1808.3 | k .37722 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 10.000 | | | | | | | | 500.00 | |
| Low Limit | -.01000 | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **6.0604** | k **.30928** | kF **510.54** | k **.30843** | k **.02177** | k **32.055** | k **68.598** | F **23.405** | **2.5085** | k **.03633** |
| Stddev | .0038 | .00019 | .45 | .00277 | .00134 | .022 | .048 | .002 | .0060 | .00167 |
| %RSD | .06282 | .06179 | .08782 | .89694 | 6.1399 | .06970 | .06970 | .00651 | .23890 | 4.5997 |
| #1 | k 6.0577 | k .30915 | k 510.22 | k .30648 | k .02083 | k 32.039 | k 68.564 | 23.406 | 2.5043 | k .03751 |
| #2 | k 6.0631 | k .30942 | k 510.86 | k .31039 | k .02272 | k 32.071 | k 68.631 | 23.404 | 2.5128 | k .03515 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | 20.000 | | |
| Low Limit | -1.0000 | | -.20000 | | | | | -.10000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.22606** | k **.00979** | kW **-.08399** | kF **-.04378** | k **2.8831** | k **.02486** |
| Stddev | .00044 | .00008 | .05985 | .00064 | .0086 | .00142 |
| %RSD | .19373 | .77123 | 71.266 | 1.4686 | .30014 | 5.7208 |
| #1 | k .22637 | k .00985 | k -.12631 | k -.04423 | k 2.8770 | k .02587 |
| #2 | k .22575 | k .00974 | k -.04166 | k -.04332 | k 2.8892 | k .02385 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | 50.000 | | |
| Low Limit | | | -.05000 | -.02000 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7951.1** | **99949.** | **9485.5** |
| Stddev | 8.5 | 51. | 3.4 |
| %RSD | .10692 | .05136 | .03533 |
| #1 | 7945.1 | 99986. | 9483.1 |
| #2 | 7957.1 | 99913. | 9487.8 |

Sample Name: 280-45382-a-11-a  Acquired: 8/14/2013 21:05:14  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **14.318** | **.03674** | **1.2655** | **.60568** | **.00079** | **-.00028** | **168.39** | **.05873** | **.02093** |
| Stddev | .00032 | .051 | .00155 | .0016 | .00257 | .00001 | .00263 | .36 | .00028 | .00022 |
| %RSD | 114.46 | .35343 | 4.2185 | .12598 | .42378 | 1.1210 | 925.67 | .21154 | .47858 | 1.0564 |
| #1 | .00005 | 14.354 | .03565 | 1.2644 | .60750 | .00079 | -.00215 | 168.64 | .05853 | .02108 |
| #2 | .00051 | 14.282 | .03784 | 1.2667 | .60387 | .00080 | .00158 | 168.14 | .05893 | .02077 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1501** | **1.8952** | **48.311** | W **146.60** | **.23032** | **40.211** | **2.3135** | **.08199** | W **755.66** | **.10896** |
| Stddev | .0006 | .0072 | .241 | .37 | .00183 | .146 | .0107 | .00019 | 1.68 | .00021 |
| %RSD | .02866 | .37790 | .49956 | .25202 | .79552 | .36428 | .46295 | .22961 | .22228 | .19250 |
| #1 | 2.1505 | 1.9003 | 48.140 | 146.86 | .22903 | 40.315 | 2.3210 | .08213 | 756.85 | .10881 |
| #2 | 2.1496 | 1.8901 | 48.482 | 146.34 | .23162 | 40.107 | 2.3059 | .08186 | 754.47 | .10911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3699** | **.14175** | F **347.79** | **.00108** | **.00487** | **33.045** | **70.716** | **.77757** | **1.1925** | **.00479** |
| Stddev | .0031 | .00000 | .31 | .00229 | .00143 | .074 | .159 | .00010 | .0015 | .00040 |
| %RSD | .22305 | .00176 | .08935 | 211.67 | 29.389 | .22530 | .22530 | .01280 | .12336 | 8.3058 |
| #1 | 1.3720 | .14174 | 347.57 | .00270 | .00386 | 33.097 | 70.828 | .77764 | 1.1935 | .00507 |
| #2 | 1.3677 | .14175 | 348.01 | -.00054 | .00588 | 32.992 | 70.603 | .77750 | 1.1914 | .00451 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23424** | **.00074** | **-.03814** | **.05678** | **3.6250** | **.01109** |
| Stddev | .00281 | .00035 | .00741 | .00011 | .0211 | .00050 |
| %RSD | 1.2005 | 46.899 | 19.439 | .19101 | .58337 | 4.5137 |
| #1 | .23225 | .00049 | -.03290 | .05670 | 3.6399 | .01144 |
| #2 | .23622 | .00098 | -.04338 | .05685 | 3.6100 | .01074 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8584.7** | **106760.** | **9700.6** |
| Stddev | 4.2 | 476. | 45.4 |
| %RSD | .04933 | .44560 | .46808 |
| #1 | 8581.7 | 106420. | 9668.5 |
| #2 | 8587.7 | 107090. | 9732.7 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 21:07:30 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **50.638** | **.00400** | **.00845** | **.00060** | **-.00011** | **1.0090** | **.00319** | **-.00020** | **.00036** | **.00001** | **.00270** | **49.173** |
| Stddev | .00073 | .327 | .00074 | .00005 | .00021 | .00005 | .0008 | .00005 | .00005 | .00008 | .00015 | .00010 | .544 |
| %RSD | 88.303 | .64556 | 18.579 | .63863 | 35.773 | 42.992 | .07704 | 1.4563 | 23.943 | 22.002 | 1365.1 | 3.6955 | 1.1057 |
| #1 | .00031 | 50.407 | .00453 | .00849 | .00045 | -.00008 | 1.0096 | .00322 | -.00024 | .00031 | -.00009 | .00263 | 48.788 |
| #2 | .00133 | 50.870 | .00348 | .00841 | .00075 | -.00015 | 1.0085 | .00316 | -.00017 | .00042 | .00011 | .00277 | 49.557 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46385** | **.00181** | **-.00902** | **.00015** | **.00015** | **251.30** | **.00071** | **.00554** | **.00153** | **5.2218** | **.00191** | **.00033** | **-.00367** |
| Stddev | .09709 | .00370 | .00077 | .00002 | .00013 | 1.13 | .00002 | .00033 | .00031 | .0112 | .00154 | .00471 | .00509 |
| %RSD | 20.931 | 204.05 | 8.5655 | 10.007 | 88.417 | .44958 | 3.0689 | 5.9962 | 19.906 | .21529 | 80.624 | 1442.4 | 138.68 |
| #1 | .53250 | .00442 | -.00847 | .00014 | .00024 | 250.50 | .00070 | .00578 | .00132 | 5.2298 | .00082 | .00366 | -.00726 |
| #2 | .39520 | -.00080 | -.00957 | .00016 | .00005 | 252.10 | .00073 | .00531 | .00175 | 5.2139 | .00300 | -.00301 | -.00007 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00785** | **.00270** | **.00045** | **4.8862** | **-.00108** | **.00081** | **10.153** | **.00189** | **.00016** | **.02971** |
| Stddev | .01088 | .00041 | .00000 | .0085 | .00020 | .00059 | .042 | .00044 | .00000 | .00242 |
| %RSD | 138.68 | 15.328 | .73449 | .17385 | 18.226 | 72.864 | .41698 | 23.157 | 2.0242 | 8.1368 |
| #1 | -.01554 | .00241 | .00045 | 4.8802 | -.00122 | .00039 | 10.123 | .00158 | .00016 | .02800 |
| #2 | -.00015 | .00299 | .00045 | 4.8922 | -.00094 | .00122 | 10.183 | .00220 | .00016 | .03142 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8847.5** | **110760.** | **9556.6** |
| Stddev | 6.4 | 411. | 40.7 |
| %RSD | .07210 | .37117 | .42596 |
| #1 | 8843.0 | 111050. | 9585.3 |
| #2 | 8852.0 | 110470. | 9527.8 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 21:09:50 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49771** | **.52206** | **.98404** | **.50580** | **.48990** | **.50215** | **.00097** | **5.0562** | **.50491** | **.50939** | **.49894** | **.50726** | **2.5350** |
| Stddev | .00040 | .00116 | .00049 | .00034 | .00078 | .00188 | .00207 | .0122 | .00071 | .00043 | .00010 | .00059 | .0072 |
| %RSD | .08127 | .22196 | .05014 | .06750 | .15846 | .37369 | 212.94 | .24099 | .13991 | .08344 | .01918 | .11708 | .28477 |
| #1 | .49742 | .52288 | .98439 | .50556 | .48936 | .50082 | .00243 | 5.0476 | .50441 | .50909 | .49888 | .50768 | 2.5299 |
| #2 | .49800 | .52124 | .98369 | .50604 | .49045 | .50348 | -.00049 | 5.0648 | .50541 | .50969 | .49901 | .50684 | 2.5401 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.451** | **.99102** | **19.394** | **.50345** | **.49537** | F **5.9461** | **.50363** | **.98008** | **1.0158** | **.16208** | **1.0181** | **.98564** | **5.0003** |
| Stddev | .154 | .00322 | .002 | .00104 | .00017 | .0213 | .00083 | .00166 | .0003 | .00387 | .0020 | .00185 | .0233 |
| %RSD | .30536 | .32489 | .00988 | .20746 | .03403 | .35896 | .16496 | .16896 | .02727 | 2.3848 | .19342 | .18796 | .46541 |
| #1 | 50.342 | .98875 | 19.393 | .50271 | .49525 | 5.9612 | .50304 | .98125 | 1.0160 | .16481 | 1.0195 | .98695 | 4.9838 |
| #2 | 50.560 | .99330 | 19.395 | .50419 | .49549 | 5.9310 | .50422 | .97891 | 1.0156 | .15935 | 1.0167 | .98433 | 5.0167 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 5.0000 | | | | | | | |
| Range | | | | | | 10.490% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.701** | **.99456** | **.50558** | **-.00499** | **.50644** | **1.0317** | **.05328** | **.50312** | **.49092** | **.51059** |
| Stddev | .050 | .00065 | .00214 | .00115 | .00113 | .0001 | .01851 | .00071 | .00053 | .00223 |
| %RSD | .46541 | .06523 | .42357 | 23.050 | .22318 | .00992 | 34.749 | .14172 | .10760 | .43678 |
| #1 | 10.665 | .99410 | .50406 | -.00580 | .50564 | 1.0318 | .06637 | .50262 | .49054 | .50901 |
| #2 | 10.736 | .99502 | .50709 | -.00418 | .50724 | 1.0316 | .04019 | .50362 | .49129 | .51217 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8975.0** | **114050.** | **9566.7** |
| Stddev | 14.4 | 265. | 52.8 |
| %RSD | .16060 | .23251 | .55141 |
| #1 | 8985.2 | 114240. | 9604.0 |
| #2 | 8964.8 | 113870. | 9529.4 |

Sample Name: CCB Acquired: 8/14/2013 21:11:56 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00028** | **.00022** | **.00131** | W **.00520** | **.00023** | **.00004** | **-.00010** | **.00572** | **-.00014** | **.00011** | **-.00019** |
| Stddev | .00054 | .00025 | .00064 | .00005 | .00019 | .00005 | .00174 | .00117 | .00003 | .00018 | .00008 |
| %RSD | 191.30 | 112.31 | 48.804 | .93346 | 80.716 | 127.29 | 1779.1 | 20.488 | 20.653 | 171.75 | 41.554 |
| #1 | -.00066 | .00040 | .00086 | .00524 | .00036 | .00000 | .00113 | .00655 | -.00012 | -.00002 | -.00024 |
| #2 | .00010 | .00005 | .00176 | .00517 | .00010 | .00007 | -.00132 | .00490 | -.00016 | .00023 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00437 | | | | | | | |
| Low Limit | | | | -.00437 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00044** | **.00398** | F **.26442** | **-.00244** | **.00432** | **.00022** | **.00076** | F **.54624** | **-.00002** | **.00159** | **-.00004** |
| Stddev | .00003 | .00129 | .03624 | .00164 | .00161 | .00001 | .00029 | .00358 | .00017 | .00021 | .00063 |
| %RSD | 6.4660 | 32.309 | 13.704 | 67.246 | 37.198 | 3.9495 | 38.333 | .65557 | 932.23 | 13.170 | 1516.3 |
| #1 | -.00042 | .00307 | .23880 | -.00128 | .00545 | .00023 | .00055 | .54878 | -.00014 | .00174 | -.00048 |
| #2 | -.00046 | .00489 | .29005 | -.00360 | .00318 | .00021 | .00096 | .54371 | .00010 | .00145 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .25000 | | | | | .18320 | | | |
| Low Limit | | | -.25000 | | | | | -.18320 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10023** | **.00222** | **.00226** | **.00832** | **.01781** | **.00222** | **.00006** | **-.00073** | **.00018** | **-.00034** | **.01331** |
| Stddev | .00484 | .00035 | .00077 | .00161 | .00344 | .00024 | .00004 | .00268 | .00002 | .00063 | .01383 |
| %RSD | 4.8255 | 15.966 | 34.120 | 19.324 | 19.324 | 10.904 | 65.092 | 369.44 | 10.652 | 186.04 | 103.90 |
| #1 | .10365 | .00197 | .00280 | .00946 | .02025 | .00205 | .00003 | .00117 | .00016 | -.00079 | .00353 |
| #2 | .09681 | .00247 | .00171 | .00719 | .01538 | .00239 | .00009 | -.00262 | .00019 | .00011 | .02308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00077** | **.00149** | W **-.00338** |
| Stddev | .00027 | .00008 | .00133 |
| %RSD | 34.496 | 5.1327 | 39.327 |
| #1 | .00058 | .00143 | -.00432 |
| #2 | .00096 | .00154 | -.00244 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8986.1** | **116190.** | **9370.2** |
| Stddev | 20.2 | 222. | 42.7 |
| %RSD | .22446 | .19134 | .45599 |
| #1 | 9000.4 | 116040. | 9340.0 |
| #2 | 8971.9 | 116350. | 9400.4 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 21:14:10 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01018** | **.10754** | **.01727** | **.09871** | **.00992** | **.00098** | **.10906** | **.20365** | **.00500** | **.01065** | **.01047** | **.01540** | **.10248** |
| Stddev | .00036 | .00005 | .00130 | .00030 | .00014 | .00010 | .00012 | .00483 | .00008 | .00012 | .00006 | .00048 | .00125 |
| %RSD | 3.5803 | .05005 | 7.5247 | .30372 | 1.3849 | 9.9104 | .11049 | 2.3694 | 1.6147 | 1.0954 | .61755 | 3.0921 | 1.2168 |
| #1 | .00993 | .10750 | .01819 | .09893 | .01002 | .00105 | .10914 | .20706 | .00495 | .01056 | .01042 | .01506 | .10160 |
| #2 | .01044 | .10758 | .01635 | .09850 | .00982 | .00091 | .10897 | .20024 | .00506 | .01073 | .01052 | .01574 | .10336 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2963** | **.00908** | **.19991** | **.01033** | **.01982** | F **1.5425** | **.04178** | **2.7971** | **.00879** | **.07604** | **.01078** | **.01409** | **.48405** |
| Stddev | .0206 | .00038 | .00068 | .00000 | .00013 | .0233 | .00013 | .0013 | .00023 | .00547 | .00033 | .00100 | .00065 |
| %RSD | .62395 | 4.2071 | .33851 | .04247 | .67166 | 1.5134 | .30393 | .04530 | 2.6102 | 7.1866 | 3.0967 | 7.0674 | .13331 |
| #1 | 3.2817 | .00881 | .19943 | .01033 | .01992 | 1.5590 | .04169 | 2.7980 | .00863 | .07991 | .01101 | .01480 | .48451 |
| #2 | 3.3108 | .00935 | .20039 | .01034 | .01973 | 1.5260 | .04187 | 2.7962 | .00896 | .07218 | .01054 | .01339 | .48360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0359** | **.10420** | **.01030** | **.01346** | **.01004** | **.01441** | F **.09286** | **.01083** | **.02109** | **.01391** |
| Stddev | .0014 | .00026 | .00005 | .00266 | .00008 | .00173 | .00058 | .00053 | .00005 | .00132 |
| %RSD | .13331 | .24795 | .51874 | 19.734 | .76391 | 11.993 | .62832 | 4.8836 | .24360 | 9.4637 |
| #1 | 1.0368 | .10401 | .01033 | .01533 | .00998 | .01319 | .09327 | .01121 | .02106 | .01298 |
| #2 | 1.0349 | .10438 | .01026 | .01158 | .01009 | .01563 | .09245 | .01046 | .02113 | .01484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8982.2** | **115640.** | **9409.2** |
| Stddev | .8 | 423. | 54.7 |
| %RSD | .00898 | .36587 | .58157 |
| #1 | 8981.7 | 115930. | 9370.5 |
| #2 | 8982.8 | 115340. | 9447.9 |

Sample Name: lb 280-186749/1-b  Acquired: 8/14/2013 21:16:29  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00128** | **.00275** | **.00633** | **.00159** | **.00001** | **.00128** | **.05566** | **-.00010** | **.00002** |
| Stddev | .00022 | .00012 | .00320 | .00011 | .00013 | .00002 | .00147 | .00076 | .00011 | .00023 |
| %RSD | 89.158 | 9.6584 | 116.35 | 1.6869 | 8.3663 | 268.20 | 115.28 | 1.3636 | 112.51 | 964.08 |
| #1 | .00009 | .00119 | .00502 | .00640 | .00168 | -.00001 | .00232 | .05620 | -.00002 | -.00014 |
| #2 | .00041 | .00137 | .00049 | .00625 | .00149 | .00003 | .00024 | .05512 | -.00018 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00187** | **.00433** | **.29183** | **-.00080** | **.00775** | **.00015** | **-.00018** | **183.37** | **-.00011** |
| Stddev | .00004 | .00054 | .00220 | .03569 | .00155 | .00141 | .00003 | .00018 | .82 | .00009 |
| %RSD | 91.451 | 29.033 | 50.745 | 12.230 | 193.87 | 18.204 | 20.872 | 99.213 | .44964 | 83.597 |
| #1 | .00007 | .00226 | .00278 | .26660 | -.00190 | .00875 | .00013 | -.00005 | 182.79 | -.00005 |
| #2 | .00001 | .00149 | .00588 | .31707 | .00030 | .00676 | .00018 | -.00031 | 183.95 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00241** | **-.00027** | W **.07336** | **-.00061** | **-.00078** | **.00330** | **.00705** | **.00169** | **.00025** | **-.00298** |
| Stddev | .00051 | .00050 | .00314 | .00006 | .00203 | .01131 | .02420 | .00037 | .00006 | .00003 |
| %RSD | 21.110 | 185.77 | 4.2775 | 10.513 | 261.55 | 343.04 | 343.04 | 21.921 | 24.244 | 1.0036 |
| #1 | .00205 | -.00062 | .07558 | -.00066 | -.00221 | -.00470 | -.01006 | .00143 | .00029 | -.00296 |
| #2 | .00276 | .00008 | .07114 | -.00057 | .00066 | .01129 | .02417 | .00195 | .00020 | -.00300 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | | | | | |
| Low Limit | | | -.05000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **-.00043** | **.02500** | **.00063** | **.00200** | **-.00289** |
| Stddev | .00024 | .00038 | .01798 | .00013 | .00021 | .00047 |
| %RSD | 106.74 | 89.413 | 71.911 | 21.408 | 10.265 | 16.367 |
| #1 | -.00039 | -.00016 | .01229 | .00053 | .00215 | -.00323 |
| #2 | -.00005 | -.00070 | .03771 | .00072 | .00186 | -.00256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8693.1** | **109580.** | **9369.6** |
| Stddev | 24.4 | 251. | 25.9 |
| %RSD | .28063 | .22933 | .27662 |
| #1 | 8710.3 | 109410. | 9351.2 |
| #2 | 8675.8 | 109760. | 9387.9 |

Sample Name: lcs 280-186749/2-b Acquired: 8/14/2013 21:18:51 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22440** | F **.43346** | **.85772** | **.21060** | **2.5207** | **.01056** | **.43193** | **10.587** | **.24172** | **.10608** |
| Stddev | .00034 | .00019 | .00111 | .00046 | .0074 | .00013 | .00171 | .061 | .00056 | .00006 |
| %RSD | .14996 | .04423 | .12996 | .22023 | .29287 | 1.2719 | .39692 | .57270 | .23060 | .05342 |
| #1 | .22416 | .43332 | .85693 | .21027 | 2.5155 | .01046 | .43314 | 10.544 | .24212 | .10612 |
| #2 | .22463 | .43360 | .85850 | .21092 | 2.5259 | .01065 | .43072 | 10.630 | .24133 | .10604 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .43200 | | | | | | | | |
| Low Limit | | .34400 | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1101** | **.48613** | F **.27054** | **10.897** | **.20624** | **9.9480** | **.10563** | **.21086** | F **180.18** | F **.11500** |
| Stddev | .0034 | .00109 | .00009 | .062 | .00083 | .0046 | .00008 | .00088 | .21 | .00051 |
| %RSD | .30605 | .22501 | .03246 | .57223 | .40150 | .04646 | .08024 | .41847 | .11552 | .44727 |
| #1 | 1.1125 | .48536 | .27060 | 10.853 | .20683 | 9.9513 | .10557 | .21148 | 180.04 | .11537 |
| #2 | 1.1077 | .48691 | .27048 | 10.941 | .20565 | 9.9447 | .10569 | .21023 | 180.33 | .11464 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail |
| High Limit | | | .22800 | | | | | | 11.200 | .11100 |
| Low Limit | | | .17600 | | | | | | 9.1000 | .08900 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1413** | F **1.1802** | **.06460** | **.10479** | **.63161** | **2.1027** | F **4.4998** | **.41806** | **.21194** | **.20191** |
| Stddev | .0103 | .0006 | .00065 | .00095 | .00121 | .0026 | .0056 | .00171 | .00056 | .00131 |
| %RSD | .48308 | .05186 | .99911 | .90939 | .19150 | .12427 | .12427 | .41005 | .26420 | .64820 |
| #1 | 2.1486 | 1.1798 | .06505 | .10411 | .63247 | 2.1009 | 4.4958 | .41927 | .21154 | .20098 |
| #2 | 2.1340 | 1.1807 | .06414 | .10546 | .63076 | 2.1045 | 4.5037 | .41684 | .21233 | .20283 |
| Check ? | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 1.1550 | | | | | 4.9220 | | | |
| Low Limit | | .99000 | | | | | 4.0200 | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21408** | **.41017** | **.43062** | **.10965** | **.54046** | **.10665** |
| Stddev | .00046 | .00230 | .00541 | .00062 | .00192 | .00346 |
| %RSD | .21380 | .56191 | 1.2556 | .56263 | .35529 | 3.2487 |
| #1 | .21375 | .41180 | .43444 | .10921 | .53910 | .10420 |
| #2 | .21440 | .40854 | .42679 | .11008 | .54182 | .10910 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8631.8** | **109080.** | **9386.1** |
| Stddev | 17.7 | 443. | 46.9 |
| %RSD | .20528 | .40633 | .49940 |
| #1 | 8619.2 | 109400. | 9419.3 |
| #2 | 8644.3 | 108770. | 9353.0 |

Sample Name: 280-45258-a-2-b  Acquired: 8/14/2013 21:21:01  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.02156** | **-.00015** | **.00596** | **.01185** | **.00000** | **.00007** | **.44516** | **-.00008** | **.00011** |
| Stddev | .00022 | .00024 | .00171 | .00026 | .00043 | .0000 | .00024 | .00107 | .00009 | .00002 |
| %RSD | 633.55 | 1.1162 | 1158.4 | 4.2919 | 3.6107 | 677.68 | 320.68 | .24050 | 113.73 | 18.762 |
| #1 | .00019 | .02139 | -.00136 | .00578 | .01155 | -.00002 | -.00009 | .44441 | -.00015 | .00012 |
| #2 | -.00012 | .02173 | .00106 | .00614 | .01216 | .00001 | .00024 | .44592 | -.00002 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.00676** | **.03925** | **.45776** | **-.00086** | **.06029** | **.00184** | **.00008** | **231.33** | **.00276** |
| Stddev | .00000 | .00043 | .00033 | .01139 | .00153 | .00308 | .00006 | .00001 | .63 | .00006 |
| %RSD | .10557 | 6.4260 | .82975 | 2.4876 | 178.61 | 5.1069 | 3.2489 | 11.358 | .27449 | 1.9981 |
| #1 | .00097 | .00706 | .03948 | .44971 | -.00194 | .05812 | .00180 | .00008 | 230.88 | .00280 |
| #2 | .00097 | .00645 | .03902 | .46581 | .00023 | .06247 | .00188 | .00007 | 231.78 | .00272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00580** | **.00527** | **.10057** | **.00279** | **.00210** | **.00952** | **.02037** | **.00239** | **.00145** | **-.00199** |
| Stddev | .00056 | .00055 | .00267 | .00192 | .00052 | .01198 | .02563 | .00003 | .00001 | .00226 |
| %RSD | 9.6904 | 10.458 | 2.6566 | 68.713 | 24.729 | 125.83 | 125.83 | 1.3703 | .72030 | 113.68 |
| #1 | .00620 | .00566 | .10246 | .00143 | .00173 | .00105 | .00224 | .00237 | .00146 | -.00039 |
| #2 | .00540 | .00488 | .09868 | .00414 | .00246 | .01798 | .03849 | .00241 | .00144 | -.00358 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00039** | **.02203** | **.00062** | **.05242** | **-.00165** |
| Stddev | .00005 | .00023 | .07491 | .00006 | .00004 | .00053 |
| %RSD | 150.14 | 58.310 | 339.97 | 9.8428 | .07069 | 31.907 |
| #1 | .00000 | .00023 | -.03094 | .00058 | .05244 | -.00127 |
| #2 | -.00007 | .00055 | .07500 | .00067 | .05239 | -.00202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8571.2** | **107480.** | **9319.9** |
| Stddev | 6.1 | 813. | 5.8 |
| %RSD | .07116 | .75622 | .06228 |
| #1 | 8575.5 | 106910. | 9315.8 |
| #2 | 8566.9 | 108060. | 9324.0 |

Sample Name: 280-45320-b-1-b  Acquired: 8/14/2013 21:23:27  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **.05251** | **.00219** | **.01114** | **.01962** | **-.00002** | **.00104** | **32.146** | **-.00006** | **.00015** |
| Stddev | .00024 | .00005 | .00176 | .00006 | .00042 | .00005 | .00074 | .014 | .00013 | .00004 |
| %RSD | 66.921 | .09311 | 80.157 | .54570 | 2.1267 | 203.08 | 71.655 | .04467 | 225.41 | 25.261 |
| #1 | -.00053 | .05255 | .00344 | .01110 | .01932 | -.00006 | .00051 | 32.156 | -.00015 | .00012 |
| #2 | -.00019 | .05248 | .00095 | .01118 | .01991 | .00001 | .00156 | 32.136 | .00003 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00626** | **.05407** | **1.5553** | **-.00086** | **2.5635** | **.03454** | **-.00009** | **211.27** | **.00141** |
| Stddev | .00009 | .00022 | .00016 | .0285 | .00153 | .0048 | .00010 | .00014 | .04 | .00008 |
| %RSD | 124.33 | 3.5605 | .29356 | 1.8330 | 178.45 | .18615 | .28574 | 152.92 | .02075 | 5.7625 |
| #1 | .00001 | .00610 | .05396 | 1.5754 | .00022 | 2.5669 | .03461 | -.00018 | 211.23 | .00147 |
| #2 | .00013 | .00641 | .05418 | 1.5351 | -.00194 | 2.5601 | .03447 | .00001 | 211.30 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04202** | **.00011** | **.16727** | **.00122** | **.00029** | **1.8777** | **4.0184** | **.00100** | **.29480** | **-.00177** |
| Stddev | .00004 | .00023 | .00066 | .00108 | .00268 | .0097 | .0208 | .00008 | .00040 | .00148 |
| %RSD | .10578 | 213.05 | .39587 | 88.340 | 915.72 | .51688 | .51688 | 8.4199 | .13453 | 83.685 |
| #1 | .04205 | -.00005 | .16774 | .00046 | -.00160 | 1.8709 | 4.0037 | .00094 | .29452 | -.00072 |
| #2 | .04199 | .00027 | .16681 | .00198 | .00219 | 1.8846 | 4.0330 | .00106 | .29508 | -.00282 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00154** | **-.00048** | **.01973** | **.00916** | **.00507** | **-.00085** |
| Stddev | .00035 | .00058 | .02969 | .00022 | .00013 | .00183 |
| %RSD | 22.721 | 120.62 | 150.48 | 2.3823 | 2.5553 | 215.80 |
| #1 | .00179 | -.00088 | -.00126 | .00900 | .00497 | -.00214 |
| #2 | .00129 | -.00007 | .04073 | .00931 | .00516 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8667.4** | **108190.** | **9413.2** |
| Stddev | 4.8 | 804. | 6.1 |
| %RSD | .05493 | .74316 | .06514 |
| #1 | 8670.7 | 107620. | 9417.6 |
| #2 | 8664.0 | 108760. | 9408.9 |

Sample Name: 280-45320-b-1-bSD@5 Acquired: 8/14/2013 21:25:53 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.02552** | **.00214** | **.00473** | **.00383** | **.00002** | **.00031** | **6.5904** | **.00001** | **.00003** |
| Stddev | .00032 | .00013 | .00205 | .00049 | .00003 | .00008 | .00087 | .0093 | .00013 | .00015 |
| %RSD | 100.40 | .51168 | 96.080 | 10.420 | .73367 | 313.83 | 275.96 | .14139 | 1305.0 | 469.81 |
| #1 | .00009 | .02562 | .00359 | .00438 | .00381 | -.00003 | .00093 | 6.5970 | -.00008 | .00014 |
| #2 | .00054 | .02543 | .00069 | .00508 | .00385 | .00008 | -.00030 | 6.5839 | .00010 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.00076** | **.02673** | **.48428** | **-.00002** | **.54083** | **.00733** | **.00007** | **43.488** | **.00021** |
| Stddev | .00008 | .00003 | .00097 | .04735 | .00117 | .00264 | .00000 | .00011 | .400 | .00006 |
| %RSD | 129.35 | 3.4024 | 3.6154 | 9.7766 | 7084.5 | .48737 | .02207 | 154.98 | .92068 | 26.009 |
| #1 | -.00001 | .00074 | .02605 | .45080 | -.00085 | .53897 | .00733 | -.00001 | 43.204 | .00025 |
| #2 | -.00011 | .00078 | .02741 | .51776 | .00081 | .54270 | .00733 | .00015 | 43.771 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00946** | **.00005** | **.06534** | **-.00118** | **.00121** | **.38022** | **.81367** | **.00122** | **.06050** | **-.00145** |
| Stddev | .00183 | .00071 | .00175 | .00014 | .00026 | .00898 | .01921 | .00026 | .00022 | .00053 |
| %RSD | 19.349 | 1467.2 | 2.6798 | 12.085 | 21.565 | 2.3607 | 2.3607 | 21.540 | .36531 | 36.777 |
| #1 | .01076 | .00055 | .06658 | -.00108 | .00103 | .38656 | .82725 | .00140 | .06066 | -.00183 |
| #2 | .00817 | -.00045 | .06411 | -.00128 | .00140 | .37387 | .80008 | .00103 | .06035 | -.00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00023** | **.01443** | **.00252** | **.00281** | **-.00372** |
| Stddev | .00014 | .00061 | .02656 | .00017 | .00029 | .00189 |
| %RSD | 30.782 | 263.34 | 184.09 | 6.6848 | 10.461 | 50.849 |
| #1 | .00035 | .00066 | -.00435 | .00240 | .00302 | -.00238 |
| #2 | .00054 | -.00020 | .03321 | .00264 | .00260 | -.00506 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8912.3** | **112880.** | **9430.5** |
| Stddev | 22.8 | 476. | 37.9 |
| %RSD | .25636 | .42137 | .40193 |
| #1 | 8928.5 | 112540. | 9403.6 |
| #2 | 8896.1 | 113210. | 9457.3 |

Sample Name: 280-45320-b-1-c ms  Acquired: 8/14/2013 21:28:13  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.22879** | **.43564** | **.87111** | **.21472** | **2.5942** | **.01057** | F **.43620** | **120.05** | **.24559** | **.10590** |
| Stddev | .00175 | .00008 | .00312 | .00012 | .0049 | .00002 | .00176 | .14 | .00004 | .00007 |
| %RSD | .76369 | .01798 | .35812 | .05567 | .18908 | .17705 | .40408 | .11368 | .01724 | .06316 |
| #1 | .22755 | .43559 | .87332 | .21464 | 2.5977 | .01058 | .43744 | 120.15 | .24556 | .10595 |
| #2 | .23002 | .43570 | .86891 | .21480 | 2.5908 | .01055 | .43495 | 119.95 | .24562 | .10585 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1115** | **.49841** | **.21794** | **13.931** | **.20920** | **21.607** | **.15875** | **.21348** | **185.15** | **.10643** |
| Stddev | .0007 | .00264 | .00363 | .058 | .00421 | .036 | .00045 | .00002 | .35 | .00020 |
| %RSD | .06277 | .52892 | 1.6675 | .41374 | 2.0112 | .16609 | .28265 | .01123 | .18881 | .18561 |
| #1 | 1.1120 | .49655 | .22051 | 13.972 | .21217 | 21.633 | .15906 | .21346 | 185.40 | .10629 |
| #2 | 1.1110 | .50027 | .21537 | 13.890 | .20622 | 21.582 | .15843 | .21350 | 184.90 | .10657 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.2158** | **1.1771** | **.55329** | **.10398** | **.63702** | **3.2733** | **7.0048** | **.41707** | **.92628** | **.20346** |
| Stddev | .0025 | .0030 | .00193 | .00075 | .00226 | .0254 | .0543 | .00220 | .00004 | .00099 |
| %RSD | .11460 | .25690 | .34896 | .72214 | .35555 | .77447 | .77447 | .52782 | .00382 | .48662 |
| #1 | 2.2140 | 1.1750 | .55193 | .10452 | .63542 | 3.2912 | 7.0432 | .41551 | .92630 | .20276 |
| #2 | 2.2176 | 1.1792 | .55466 | .10345 | .63862 | 3.2554 | 6.9665 | .41862 | .92625 | .20416 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21804** | **.40675** | **.44284** | **.11456** | **.54059** | **.10748** |
| Stddev | .00050 | .00071 | .01981 | .00074 | .00185 | .00294 |
| %RSD | .23027 | .17501 | 4.4726 | .64457 | .34184 | 2.7323 |
| #1 | .21840 | .40625 | .45685 | .11404 | .54190 | .10955 |
| #2 | .21769 | .40726 | .42884 | .11508 | .53929 | .10540 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8535.7** | **107790.** | **9353.3** |
| Stddev | 2.6 | 901. | 42.1 |
| %RSD | .03000 | .83589 | .44966 |
| #1 | 8537.6 | 107150. | 9323.6 |
| #2 | 8533.9 | 108420. | 9383.0 |

Sample Name: 280-45320-b-1-d msd  Acquired: 8/14/2013 21:30:21  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .22321 | .42572 | .85351 | .20932 | 2.5414 | .01050 | F .42862 | 117.25 | .23990 | .10373 |
| Stddev | .00089 | .00130 | .00595 | .00020 | .0086 | .00001 | .00322 | .41 | .00025 | .00017 |
| %RSD | .40056 | .30452 | .69744 | .09764 | .33835 | .09468 | .75136 | .34790 | .10279 | .15945 |
| #1 | .22257 | .42480 | .85772 | .20946 | 2.5353 | .01049 | .43089 | 116.97 | .24007 | .10362 |
| #2 | .22384 | .42664 | .84930 | .20917 | 2.5474 | .01050 | .42634 | 117.54 | .23972 | .10385 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0868 | .48273 | .21524 | 13.764 | .20570 | 21.137 | .15511 | .20854 | 181.57 | .10360 |
| Stddev | .0002 | .00188 | .00141 | .110 | .00047 | .062 | .00029 | .00063 | 1.17 | .00053 |
| %RSD | .01964 | .39044 | .65456 | .79755 | .22722 | .29281 | .18541 | .30213 | .64222 | .51214 |
| #1 | 1.0867 | .48406 | .21623 | 13.687 | .20603 | 21.181 | .15532 | .20809 | 180.74 | .10322 |
| #2 | 1.0870 | .48139 | .21424 | 13.842 | .20537 | 21.094 | .15491 | .20899 | 182.39 | .10397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 2.1668 | 1.1495 | .53574 | .10283 | .62630 | 3.2136 | 6.8772 | .40717 | .90815 | .19807 |
| Stddev | .0083 | .0034 | .00047 | .00444 | .00515 | .0181 | .0387 | .00180 | .00296 | .00009 |
| %RSD | .38423 | .29542 | .08859 | 4.3203 | .82283 | .56218 | .56218 | .44158 | .32582 | .04684 |
| #1 | 2.1609 | 1.1471 | .53541 | .09969 | .62266 | 3.2009 | 6.8499 | .40590 | .90606 | .19814 |
| #2 | 2.1727 | 1.1519 | .53608 | .10597 | .62995 | 3.2264 | 6.9045 | .40844 | .91024 | .19801 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .21259 | .39747 | .44232 | .11253 | .52784 | .10649 |
| Stddev | .00034 | .00204 | .00637 | .00014 | .00131 | .00196 |
| %RSD | .16030 | .51364 | 1.4397 | .12579 | .24846 | 1.8376 |
| #1 | .21284 | .39603 | .44683 | .11263 | .52876 | .10511 |
| #2 | .21235 | .39892 | .43782 | .11243 | .52691 | .10787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8545.5 | 108020. | 9398.9 |
| Stddev | 15.4 | 51. | 35.9 |
| %RSD | .18000 | .04750 | .38232 |
| #1 | 8556.3 | 107980. | 9424.3 |
| #2 | 8534.6 | 108050. | 9373.5 |

Sample Name: 280-45320-c-3-c  Acquired: 8/14/2013 21:32:31  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **.06378** | **.00305** | **.01170** | **.14032** | **-.00002** | **-.00121** | **20.205** | **.00005** | **.00913** |
| Stddev | .00055 | .00034 | .00003 | .00019 | .00071 | .00008 | .00109 | .146 | .00010 | .00017 |
| %RSD | 135.18 | .52749 | 1.0798 | 1.6393 | .50519 | 390.95 | 90.322 | .72309 | 192.87 | 1.8177 |
| #1 | -.00002 | .06355 | .00308 | .01183 | .13982 | .00004 | -.00198 | 20.102 | -.00002 | .00924 |
| #2 | -.00080 | .06402 | .00303 | .01156 | .14083 | -.00007 | -.00044 | 20.308 | .00012 | .00901 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00178** | **1.9277** | **2.7052** | **.00061** | **4.2457** | **3.4223** | **-.00009** | **201.38** | **.00060** |
| Stddev | .00007 | .00000 | .0028 | .0659 | .00390 | .0201 | .0436 | .00005 | 1.56 | .00012 |
| %RSD | 573.36 | .25281 | .14511 | 2.4363 | 637.33 | .47275 | 1.2742 | 54.007 | .77677 | 19.134 |
| #1 | -.00004 | .00178 | 1.9296 | 2.6586 | .00337 | 4.2315 | 3.4532 | -.00006 | 200.28 | .00069 |
| #2 | .00006 | .00178 | 1.9257 | 2.7518 | -.00215 | 4.2599 | 3.3915 | -.00013 | 202.49 | .00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01187** | **.00045** | **.31440** | **-.00005** | **.00109** | **2.4344** | **5.2096** | **.00133** | **.16395** | **-.00111** |
| Stddev | .00068 | .00025 | .00327 | .00088 | .00431 | .0063 | .0134 | .00023 | .00154 | .00080 |
| %RSD | 5.6894 | 55.806 | 1.0415 | 1965.3 | 394.02 | .25794 | .25794 | 17.309 | .94056 | 72.559 |
| #1 | .01235 | .00062 | .31671 | -.00067 | -.00195 | 2.4300 | 5.2001 | .00149 | .16286 | -.00054 |
| #2 | .01139 | .00027 | .31208 | .00058 | .00414 | 2.4389 | 5.2191 | .00117 | .16504 | -.00168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00444** | **-.00041** | **.02824** | **.00465** | **.00719** | **-.00210** |
| Stddev | .00001 | .00098 | .00299 | .00010 | .00004 | .00087 |
| %RSD | .16328 | 240.49 | 10.589 | 2.0702 | .55837 | 41.339 |
| #1 | .00445 | -.00110 | .03035 | .00458 | .00716 | -.00271 |
| #2 | .00444 | .00029 | .02612 | .00472 | .00722 | -.00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8737.1** | **108970.** | **9396.9** |
| Stddev | 8.4 | 93. | 1.8 |
| %RSD | .09602 | .08540 | .01918 |
| #1 | 8743.1 | 109040. | 9395.7 |
| #2 | 8731.2 | 108910. | 9398.2 |

Sample Name: 280-45320-c-5-c  Acquired: 8/14/2013 21:34:57  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **.02493** | **-.00029** | **.00995** | **.12908** | **.00006** | **.00032** | **20.188** | **.00008** | **.00857** |
| Stddev | .00004 | .00036 | .00093 | .00054 | .00180 | .00008 | .00148 | .178 | .00014 | .00005 |
| %RSD | 7.4413 | 1.4316 | 319.82 | 5.4588 | 1.3907 | 125.62 | 461.25 | .88082 | 184.99 | .58218 |
| #1 | -.00053 | .02468 | -.00095 | .00957 | .12781 | .00001 | -.00073 | 20.063 | .00018 | .00860 |
| #2 | -.00048 | .02518 | .00037 | .01033 | .13035 | .00012 | .00137 | 20.314 | -.00002 | .00853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00348** | **2.0901** | **2.5983** | **.00186** | **4.3144** | **4.1423** | **-.00011** | **179.53** | **.00075** |
| Stddev | .00001 | .00025 | .0094 | .0633 | .00028 | .0110 | .0113 | .00014 | .93 | .00024 |
| %RSD | 39.999 | 7.2997 | .44761 | 2.4352 | 14.949 | .25444 | .27221 | 121.68 | .52069 | 32.252 |
| #1 | -.00002 | .00330 | 2.0835 | 2.5536 | .00166 | 4.3221 | 4.1343 | -.00002 | 178.87 | .00058 |
| #2 | -.00001 | .00366 | 2.0967 | 2.6430 | .00206 | 4.3066 | 4.1503 | -.00021 | 180.19 | .00092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01210** | **.00094** | **.25321** | **-.00260** | **.00028** | **2.2261** | **4.7638** | **.00103** | **.15969** | **-.00134** |
| Stddev | .00288 | .00075 | .00129 | .00003 | .00075 | .0012 | .0026 | .00038 | .00153 | .00100 |
| %RSD | 23.826 | 79.641 | .51020 | 1.1903 | 268.31 | .05488 | .05488 | 37.294 | .95985 | 74.577 |
| #1 | .01413 | .00146 | .25412 | -.00262 | .00081 | 2.2252 | 4.7619 | .00076 | .15861 | -.00063 |
| #2 | .01006 | .00041 | .25229 | -.00258 | -.00025 | 2.2269 | 4.7656 | .00130 | .16077 | -.00204 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00169** | **.00013** | **-.02570** | **.00504** | **.00683** | **-.00087** |
| Stddev | .00009 | .00019 | .03693 | .00003 | .00007 | .00258 |
| %RSD | 5.3590 | 150.06 | 143.65 | .67891 | .95866 | 296.95 |
| #1 | .00163 | -.00001 | -.05181 | .00502 | .00687 | -.00269 |
| #2 | .00176 | .00026 | .00041 | .00507 | .00678 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8773.3** | **109740.** | **9493.1** |
| Stddev | 32.1 | 293. | 115.1 |
| %RSD | .36583 | .26715 | 1.2120 |
| #1 | 8750.6 | 109530. | 9574.5 |
| #2 | 8796.0 | 109950. | 9411.7 |

Sample Name: 280-45320-b-21-e  Acquired: 8/14/2013 21:37:23  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186948 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00062** | **.00365** | **.00169** | **.00656** | **.05393** | **-.00001** | **.00167** | **112.64** | **.00031** | **.00012** |
| Stddev | .00016 | .00033 | .00262 | .00005 | .00072 | .00001 | .00048 | .66 | .00016 | .00019 |
| %RSD | 25.967 | 9.1351 | 154.73 | .75754 | 1.3343 | 47.649 | 28.936 | .58775 | 52.428 | 165.75 |
| #1 | -.00050 | .00341 | -.00016 | .00659 | .05342 | -.00001 | .00201 | 112.17 | .00042 | -.00002 |
| #2 | -.00073 | .00388 | .00354 | .00652 | .05444 | -.00002 | .00133 | 113.11 | .00019 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00540** | **.00313** | **3.2053** | **.00153** | **11.964** | **.05509** | **.00010** | **180.40** | **.00083** |
| Stddev | .00007 | .00066 | .00034 | .0454 | .00328 | .004 | .00016 | .00003 | 1.19 | .00024 |
| %RSD | 45.990 | 12.217 | 10.748 | 1.4176 | 214.48 | .02930 | .29005 | 31.949 | .66066 | 29.444 |
| #1 | .00021 | .00587 | .00337 | 3.1732 | .00385 | 11.966 | .05520 | .00008 | 179.56 | .00100 |
| #2 | .00010 | .00494 | .00289 | 3.2374 | -.00079 | 11.961 | .05498 | .00012 | 181.24 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01613** | **-.00031** | **.56421** | **-.00051** | **-.00145** | **1.1758** | **2.5163** | **.00142** | **.73244** | **.00023** |
| Stddev | .00161 | .00039 | .00101 | .00308 | .00044 | .0159 | .0340 | .00002 | .00211 | .00140 |
| %RSD | 9.9892 | 126.05 | .17868 | 605.77 | 30.499 | 1.3498 | 1.3498 | 1.4670 | .28838 | 598.52 |
| #1 | .01726 | -.00059 | .56350 | -.00268 | -.00177 | 1.1646 | 2.4923 | .00141 | .73095 | -.00076 |
| #2 | .01499 | -.00003 | .56493 | .00167 | -.00114 | 1.1870 | 2.5403 | .00144 | .73394 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00099** | **-.02535** | **.00500** | **.00742** | **-.00125** |
| Stddev | .00028 | .00040 | .01901 | .00030 | .00014 | .00009 |
| %RSD | 96.516 | 40.912 | 74.975 | 5.9239 | 1.8473 | 7.5008 |
| #1 | .00049 | .00127 | -.01191 | .00479 | .00732 | -.00118 |
| #2 | .00009 | .00070 | -.03879 | .00521 | .00751 | -.00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8662.3** | **108710.** | **9526.1** |
| Stddev | 26.8 | 329. | 65.8 |
| %RSD | .30890 | .30258 | .69062 |
| #1 | 8681.2 | 108470. | 9572.6 |
| #2 | 8643.4 | 108940. | 9479.6 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 21:39:42 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **50.628** | **.00429** | **.00295** | **.00068** | **-.00010** | **1.0139** | **-.00817** | **-.00012** | **.00027** | **-.00020** | **.00267** | **48.966** |
| Stddev | .00024 | .265 | .00250 | .00027 | .00038 | .00001 | .0015 | .00190 | .00016 | .00006 | .00008 | .00023 | .101 |
| %RSD | 141.20 | .52336 | 58.353 | 9.3067 | 55.688 | 6.6574 | .14612 | 23.277 | 134.43 | 20.378 | 40.559 | 8.7312 | .20641 |
| #1 | .00034 | 50.441 | .00252 | .00314 | .00041 | -.00011 | 1.0149 | -.00683 | -.00001 | .00031 | -.00026 | .00283 | 48.895 |
| #2 | .00000 | 50.815 | .00606 | .00276 | .00095 | -.00010 | 1.0128 | -.00952 | -.00023 | .00023 | -.00015 | .00250 | 49.038 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19927** | **.00207** | **-.01350** | **-.00004** | **.00003** | **250.12** | **.00061** | **.00245** | **.00114** | **5.0679** | **.00151** | **-.00202** | **-.00780** |
| Stddev | .02206 | .00354 | .00066 | .00002 | .00015 | .85 | .00010 | .00021 | .00068 | .0006 | .00025 | .00157 | .00162 |
| %RSD | 11.069 | 170.55 | 4.8748 | 56.018 | 522.60 | .33847 | 15.809 | 8.5682 | 59.839 | .01172 | 16.211 | 77.875 | 20.775 |
| #1 | .21486 | .00457 | -.01397 | -.00005 | -.00008 | 249.52 | .00054 | .00230 | .00066 | 5.0683 | .00134 | -.00091 | -.00894 |
| #2 | .18367 | -.00043 | -.01304 | -.00002 | .00014 | 250.72 | .00068 | .00260 | .00162 | 5.0675 | .00169 | -.00313 | -.00665 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01669** | **.00073** | **.00035** | **4.8953** | **-.00052** | **.00087** | **10.106** | **.00183** | **.00054** | **.03007** |
| Stddev | .00347 | .00008 | .00010 | .0095 | .00033 | .00069 | .027 | .00036 | .00009 | .00131 |
| %RSD | 20.775 | 11.559 | 28.749 | .19392 | 62.404 | 79.308 | .27073 | 19.662 | 17.289 | 4.3414 |
| #1 | -.01914 | .00079 | .00028 | 4.9020 | -.00075 | .00135 | 10.087 | .00209 | .00047 | .02915 |
| #2 | -.01423 | .00067 | .00043 | 4.8886 | -.00029 | .00038 | 10.126 | .00158 | .00061 | .03099 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8808.3** | **109910.** | **9500.0** |
| Stddev | 12.2 | 401. | 106.2 |
| %RSD | .13821 | .36445 | 1.1179 |
| #1 | 8816.9 | 109630. | 9575.1 |
| #2 | 8799.7 | 110190. | 9424.9 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 21:42:03 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49904** | **.52106** | **.98427** | **.50452** | **.48743** | **.49868** | **.00093** | **5.0137** | **.50755** | **.51128** | **.50020** | **.50758** |
| Stddev | .00021 | .00158 | .00482 | .00191 | .00146 | .00104 | .00037 | .0164 | .00193 | .00192 | .00123 | .00007 |
| %RSD | .04187 | .30386 | .48924 | .37854 | .29889 | .20832 | 39.728 | .32642 | .38099 | .37523 | .24632 | .01365 |
| #1 | .49918 | .52218 | .98767 | .50587 | .48640 | .49795 | .00067 | 5.0021 | .50891 | .51264 | .50108 | .50763 |
| #2 | .49889 | .51994 | .98086 | .50317 | .48846 | .49942 | .00118 | 5.0252 | .50618 | .50993 | .49933 | .50753 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.5219** | **49.971** | **.98821** | **19.433** | **.50381** | **.49769** | W **5.5190** | **.50487** | **.98647** | **1.0216** | **.02384** | **1.0264** |
| Stddev | .0142 | .156 | .00128 | .015 | .00046 | .00087 | .0235 | .00140 | .00291 | .0026 | .00153 | .0063 |
| %RSD | .56434 | .31165 | .12953 | .07833 | .09087 | .17483 | .42618 | .27788 | .29531 | .25238 | 6.4374 | .61025 |
| #1 | 2.5119 | 49.861 | .98731 | 19.444 | .50413 | .49831 | 5.5356 | .50586 | .98853 | 1.0234 | .02493 | 1.0308 |
| #2 | 2.5320 | 50.081 | .98912 | 19.422 | .50349 | .49708 | 5.5023 | .50387 | .98441 | 1.0198 | .02276 | 1.0219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99621** | **4.9550** | **10.604** | **1.0016** | **.50273** | **-.00473** | **.50685** | **1.0371** | **.01363** | **.50330** | **.49375** | **.50578** |
| Stddev | .00067 | .0025 | .005 | .0044 | .00129 | .00000 | .00028 | .0046 | .02347 | .00065 | .00042 | .00175 |
| %RSD | .06736 | .05054 | .05054 | .43600 | .25682 | .05917 | .05537 | .44862 | 172.23 | .12985 | .08570 | .34656 |
| #1 | .99573 | 4.9532 | 10.600 | 1.0046 | .50182 | -.00474 | .50665 | 1.0404 | .03023 | .50284 | .49405 | .50454 |
| #2 | .99668 | 4.9567 | 10.607 | .99846 | .50364 | -.00473 | .50705 | 1.0338 | -.00297 | .50376 | .49345 | .50702 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8993.0** | **114130.** | **9608.2** |
| Stddev | 1.3 | 205. | 44.2 |
| %RSD | .01499 | .17937 | .46022 |
| #1 | 8992.0 | 114280. | 9577.0 |
| #2 | 8993.9 | 113990. | 9639.5 |

Sample Name: CCB  Acquired: 8/14/2013 21:44:09  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00017** | **.00111** | **.00255** | **-.00015** | **.00003** | **-.00051** | **.00101** | **.00004** | **.00001** | **-.00006** | **-.00014** | **.00115** |
| Stddev | .00014 | .00005 | .00051 | .00037 | .00005 | .00002 | .00094 | .00160 | .00013 | .00001 | .00008 | .00011 | .00303 |
| %RSD | 712.04 | 29.201 | 45.966 | 14.515 | 31.791 | 62.208 | 183.56 | 157.91 | 324.21 | 87.255 | 142.67 | 77.008 | 263.01 |
| #1 | .00012 | .00021 | .00147 | .00281 | -.00019 | .00005 | .00015 | -.00012 | -.00005 | .00002 | .00000 | -.00006 | -.00099 |
| #2 | -.00008 | .00014 | .00075 | .00229 | -.00012 | .00002 | -.00118 | .00214 | .00014 | .00001 | -.00011 | -.00021 | .00329 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15693** | **-.00032** | **.00058** | **.00013** | **.00057** | F **.33461** | **.00015** | **.00211** | **-.00124** | **.02202** | **.00307** | **.00357** | **-.01637** |
| Stddev | .03446 | .00034 | .00067 | .00001 | .00031 | .02511 | .00059 | .00051 | .00060 | .00255 | .00038 | .00061 | .01727 |
| %RSD | 21.959 | 105.13 | 114.35 | 8.0736 | 54.978 | 7.5045 | 394.11 | 24.099 | 48.716 | 11.598 | 12.455 | 17.028 | 105.53 |
| #1 | .13256 | -.00056 | .00105 | .00012 | .00035 | .35237 | -.00027 | .00175 | -.00167 | .02383 | .00280 | .00314 | -.02858 |
| #2 | .18130 | -.00008 | .00011 | .00014 | .00079 | .31685 | .00057 | .00246 | -.00081 | .02021 | .00334 | .00400 | -.00415 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | .18320 | | | | | | | |
| Low Limit | | | | | | -.18320 | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03502** | **.00102** | **-.00009** | **-.00020** | **-.00006** | **-.00100** | **.00862** | **.00102** | **.00142** | **-.00101** |
| Stddev | .03696 | .00057 | .00007 | .00067 | .00038 | .00004 | .04325 | .00000 | .00005 | .00067 |
| %RSD | 105.53 | 55.979 | 71.736 | 331.54 | 678.73 | 3.9562 | 501.69 | .17804 | 3.4178 | 65.903 |
| #1 | -.06116 | .00062 | -.00014 | -.00067 | -.00032 | -.00103 | .03920 | .00102 | .00145 | -.00148 |
| #2 | -.00889 | .00143 | -.00005 | .00027 | .00021 | -.00098 | -.02196 | .00102 | .00138 | -.00054 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8998.8** | **116620.** | **9375.9** |
| Stddev | 24.5 | 56. | 12.8 |
| %RSD | .27232 | .04762 | .13705 |
| #1 | 8981.4 | 116580. | 9384.9 |
| #2 | 9016.1 | 116660. | 9366.8 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 21:46:24 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00997** | **.10775** | **.01554** | **.09581** | **.00996** | **.00102** | **.10918** | **.20821** | **.00525** | **.01075** | **.01023** | **.01494** | **.10519** |
| Stddev | .00026 | .00002 | .00125 | .00011 | .00007 | .00002 | .00036 | .00212 | .00008 | .00002 | .00014 | .00047 | .00060 |
| %RSD | 2.6272 | .01686 | 8.0460 | .11001 | .72197 | 2.4477 | .32710 | 1.0200 | 1.5694 | .14948 | 1.3270 | 3.1449 | .56584 |
| #1 | .01016 | .10776 | .01465 | .09589 | .00991 | .00100 | .10943 | .20670 | .00519 | .01073 | .01033 | .01460 | .10561 |
| #2 | .00979 | .10774 | .01642 | .09574 | .01001 | .00103 | .10892 | .20971 | .00531 | .01076 | .01013 | .01527 | .10477 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2024** | **.00986** | **.20140** | **.01033** | **.01963** | F **1.4065** | **.04117** | **2.7938** | **.01019** | **.02046** | **.01015** | **.01682** | **.48439** |
| Stddev | .0315 | .00148 | .00130 | .00004 | .00012 | .0066 | .00010 | .0087 | .00016 | .00206 | .00004 | .00228 | .00686 |
| %RSD | .98414 | 15.055 | .64508 | .36666 | .59681 | .46886 | .23942 | .31011 | 1.5641 | 10.087 | .36169 | 13.574 | 1.4159 |
| #1 | 3.2246 | .01091 | .20232 | .01036 | .01955 | 1.4018 | .04110 | 2.7999 | .01007 | .02192 | .01017 | .01521 | .47954 |
| #2 | 3.1801 | .00881 | .20048 | .01031 | .01971 | 1.4112 | .04124 | 2.7877 | .01030 | .01900 | .01012 | .01844 | .48924 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0366** | **.10109** | **.01026** | **.01538** | **.01021** | **.01492** | **.06142** | **.01087** | **.02109** | **.01405** |
| Stddev | .0147 | .00008 | .00002 | .00097 | .00014 | .00046 | .01261 | .00055 | .00005 | .00022 |
| %RSD | 1.4159 | .08214 | .24320 | 6.3283 | 1.3753 | 3.0818 | 20.532 | 5.0995 | .24205 | 1.5388 |
| #1 | 1.0262 | .10103 | .01024 | .01606 | .01031 | .01460 | .05250 | .01126 | .02112 | .01420 |
| #2 | 1.0470 | .10115 | .01028 | .01469 | .01011 | .01525 | .07034 | .01048 | .02105 | .01390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9036.8** | **116800.** | **9433.6** |
| Stddev | 5.9 | 164. | 17.1 |
| %RSD | .06483 | .14064 | .18174 |
| #1 | 9032.7 | 116920. | 9445.8 |
| #2 | 9041.0 | 116690. | 9421.5 |

Sample Name: lb 280-186718/1-b Acquired: 8/14/2013 21:48:41 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00181** | **.00210** | **.00502** | **.00118** | **.00003** | **.00067** | **.04137** | **-.00017** | **.00001** |
| Stddev | .00020 | .00015 | .00077 | .00060 | .00015 | .00009 | .00076 | .00229 | .00002 | .00028 |
| %RSD | 668.60 | 8.1627 | 36.467 | 11.883 | 12.683 | 323.86 | 113.01 | 5.5240 | 13.409 | 3114.5 |
| #1 | -.00017 | .00192 | .00156 | .00544 | .00129 | -.00004 | .00121 | .04298 | -.00016 | -.00019 |
| #2 | .00011 | .00171 | .00264 | .00460 | .00108 | .00009 | .00014 | .03975 | -.00019 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00665** | **.00593** | **.29204** | **.00122** | **.00655** | **.00022** | **.00000** | **377.28** | **.00044** |
| Stddev | .00022 | .00028 | .00018 | .07525 | .00196 | .00119 | .00001 | .00024 | 1.72 | .00018 |
| %RSD | 562.16 | 4.1829 | 3.0084 | 25.767 | 160.89 | 18.115 | 4.5407 | 238900. | .45475 | 39.925 |
| #1 | -.00012 | .00645 | .00580 | .34525 | .00261 | .00571 | .00021 | -.00017 | 378.50 | .00032 |
| #2 | .00019 | .00685 | .00605 | .23883 | -.00017 | .00738 | .00023 | .00017 | 376.07 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **.00016** | **.03000** | **.00042** | **.00409** | **.02028** | **.04340** | **.00068** | **.00025** | **.00028** |
| Stddev | .00102 | .00039 | .00142 | .00277 | .00076 | .00521 | .01115 | .00019 | .00005 | .00138 |
| %RSD | 90.263 | 246.95 | 4.7320 | 667.27 | 18.624 | 25.690 | 25.690 | 28.457 | 19.844 | 499.61 |
| #1 | .00185 | .00043 | .02899 | .00238 | .00463 | .02397 | .05129 | .00055 | .00029 | .00125 |
| #2 | .00041 | -.00012 | .03100 | -.00155 | .00355 | .01660 | .03552 | .00082 | .00022 | -.00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **-.00064** | **.00761** | **.00073** | **.00298** | **-.00157** |
| Stddev | .00018 | .00036 | .01199 | .00026 | .00034 | .00037 |
| %RSD | 318.03 | 55.158 | 157.54 | 36.322 | 11.349 | 23.591 |
| #1 | -.00018 | -.00039 | -.00087 | .00054 | .00274 | -.00183 |
| #2 | .00007 | -.00089 | .01608 | .00091 | .00322 | -.00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8638.3** | **106820.** | **9412.9** |
| Stddev | 5.1 | 326. | 24.9 |
| %RSD | .05932 | .30487 | .26411 |
| #1 | 8641.9 | 107050. | 9395.3 |
| #2 | 8634.7 | 106590. | 9430.5 |

Sample Name: lcs 280-186718/2-b Acquired: 8/14/2013 21:51:08 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22989** | W **.43156** | **.88308** | **.21235** | **2.5612** | **.01064** | **.43487** | **10.684** | **.24588** | **.10666** |
| Stddev | .00112 | .00024 | .00245 | .00113 | .0271 | .00009 | .00085 | .103 | .00016 | .00032 |
| %RSD | .48778 | .05639 | .27742 | .53351 | 1.0566 | .83771 | .19542 | .96432 | .06701 | .29786 |
| #1 | .22910 | .43139 | .88134 | .21315 | 2.5421 | .01058 | .43427 | 10.611 | .24576 | .10643 |
| #2 | .23069 | .43174 | .88481 | .21155 | 2.5804 | .01070 | .43547 | 10.757 | .24599 | .10688 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .43200 | | | | | | | | |
| Low Limit | | 1.7200 | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1186** | **.49775** | **.22248** | F **11.279** | **.20878** | **9.9241** | **.10717** | **.21395** | F **363.56** | **.10591** |
| Stddev | .0002 | .00204 | .00407 | .094 | .00259 | .0080 | .00008 | .00087 | 3.68 | .00032 |
| %RSD | .01409 | .41055 | 1.8313 | .83586 | 1.2429 | .08094 | .07348 | .40512 | 1.0127 | .30015 |
| #1 | 1.1185 | .49919 | .21960 | 11.212 | .20694 | 9.9298 | .10723 | .21457 | 360.96 | .10613 |
| #2 | 1.1188 | .49630 | .22536 | 11.346 | .21061 | 9.9184 | .10711 | .21334 | 366.16 | .10568 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | 11.000 | | | | | 11.200 | |
| Low Limit | | | | 8.9000 | | | | | 9.1000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1997** | F **1.1820** | **.03163** | **.10551** | **.65541** | **2.1365** | F **4.5721** | **.42035** | **.21447** | **.20495** |
| Stddev | .0043 | .0032 | .00236 | .00064 | .00367 | .0166 | .0355 | .00207 | .00240 | .00188 |
| %RSD | .19432 | .27252 | 7.4590 | .60468 | .56044 | .77634 | .77634 | .49227 | 1.1171 | .91765 |
| #1 | 2.2028 | 1.1842 | .02996 | .10596 | .65281 | 2.1248 | 4.5470 | .42181 | .21278 | .20362 |
| #2 | 2.1967 | 1.1797 | .03330 | .10506 | .65800 | 2.1482 | 4.5972 | .41889 | .21617 | .20628 |
| Check ? | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 1.1550 | | | | | 4.9220 | | | |
| Low Limit | | .99000 | | | | | 4.0200 | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21929** | **.40279** | **.41743** | **.11188** | **.55435** | **.10974** |
| Stddev | .00005 | .00055 | .02527 | .00028 | .00114 | .00129 |
| %RSD | .02232 | .13649 | 6.0535 | .24799 | .20475 | 1.1769 |
| #1 | .21926 | .40240 | .43530 | .11168 | .55354 | .11065 |
| #2 | .21933 | .40318 | .39956 | .11207 | .55515 | .10883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8641.0** | **108050.** | **9556.0** |
| Stddev | 2.5 | 144. | 33.5 |
| %RSD | .02941 | .13310 | .35068 |
| #1 | 8642.8 | 107950. | 9579.7 |
| #2 | 8639.2 | 108150. | 9532.3 |

Sample Name: 280-45339-a-2-c  Acquired: 8/14/2013 21:53:24  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **.10161** | **.00094** | **.00776** | **.13641** | **.00021** | **.01772** | **6.9021** | **.09852** | **.01859** |
| Stddev | .00032 | .00012 | .00180 | .00021 | .00017 | .00004 | .00069 | .0157 | .00028 | .00015 |
| %RSD | 214.25 | .11811 | 191.16 | 2.7000 | .12578 | 18.352 | 3.8725 | .22730 | .28495 | .81209 |
| #1 | -.00038 | .10170 | .00221 | .00791 | .13654 | .00024 | .01821 | 6.9132 | .09872 | .01869 |
| #2 | .00008 | .10153 | -.00033 | .00761 | .13629 | .00019 | .01724 | 6.8910 | .09832 | .01848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | W **38.266** | **.04063** | **.75561** | **.00148** | **.32901** | **1.3248** | **.00002** | **315.49** | **.00438** |
| Stddev | .00006 | .485 | .00052 | .00331 | .00315 | .00363 | .0025 | .00008 | .73 | .00017 |
| %RSD | 54.045 | 1.2679 | 1.2850 | .43839 | 212.45 | 1.1038 | .19026 | 408.33 | .23109 | 3.8724 |
| #1 | .00007 | 38.609 | .04100 | .75327 | -.00075 | .32644 | 1.3266 | -.00004 | 316.01 | .00426 |
| #2 | .00015 | 37.923 | .04026 | .75796 | .00371 | .33158 | 1.3230 | .00008 | 314.98 | .00450 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | | | | |
| Low Limit | | -.01000 | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01275** | **.01693** | **3.4963** | **-.00069** | **.00322** | **.58023** | **1.2417** | **.00129** | **.01635** | **-.00102** |
| Stddev | .00017 | .00009 | .0107 | .00144 | .00343 | .01264 | .0270 | .00011 | .00002 | .00059 |
| %RSD | 1.3138 | .50844 | .30628 | 207.26 | 106.75 | 2.1779 | 2.1779 | 8.4765 | .12777 | 57.884 |
| #1 | .01263 | .01687 | 3.5038 | .00032 | .00079 | .58916 | 1.2608 | .00122 | .01633 | -.00143 |
| #2 | .01286 | .01699 | 3.4887 | -.00171 | .00564 | .57129 | 1.2226 | .00137 | .01636 | -.00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00192** | **-.00023** | **.00015** | **.00043** | **2.1772** | **-.00009** |
| Stddev | .00028 | .00112 | .03531 | .00029 | .0075 | .00202 |
| %RSD | 14.459 | 476.74 | 23249. | 66.920 | .34471 | 2172.0 |
| #1 | .00172 | -.00102 | -.02482 | .00023 | 2.1825 | .00134 |
| #2 | .00212 | .00055 | .02512 | .00063 | 2.1719 | -.00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8849.4** | **110240.** | **9752.9** |
| Stddev | 9.0 | 227. | 40.7 |
| %RSD | .10201 | .20570 | .41745 |
| #1 | 8843.0 | 110080. | 9724.2 |
| #2 | 8855.8 | 110400. | 9781.7 |

Sample Name: 280-45339-a-5-c  Acquired: 8/14/2013 21:55:54  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.16757** | **.00278** | **.01621** | **.16061** | **.00008** | **.00040** | **6.0893** | **.01005** | **.00027** |
| Stddev | .00021 | .00097 | .00058 | .00015 | .00004 | .00009 | .00067 | .0050 | .00000 | .00019 |
| %RSD | 103.20 | .57652 | 20.753 | .90081 | .02625 | 121.47 | 167.26 | .08252 | .04244 | 71.432 |
| #1 | -.00035 | .16825 | .00237 | .01611 | .16064 | .00014 | .00088 | 6.0928 | .01005 | .00041 |
| #2 | -.00005 | .16688 | .00318 | .01632 | .16058 | .00001 | -.00007 | 6.0857 | .01005 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **1.3493** | **.11752** | **.67145** | **-.00020** | **.20513** | **.04618** | **-.00011** | **338.36** | **.00343** |
| Stddev | .00014 | .0044 | .00144 | .01854 | .00096 | .00246 | .00016 | .00039 | .16 | .00048 |
| %RSD | 27.257 | .32912 | 1.2259 | 2.7607 | 472.97 | 1.2012 | .35594 | 357.53 | .04832 | 14.067 |
| #1 | .00040 | 1.3461 | .11854 | .65834 | -.00088 | .20688 | .04606 | .00017 | 338.24 | .00309 |
| #2 | .00060 | 1.3524 | .11650 | .68455 | .00047 | .20339 | .04630 | -.00038 | 338.48 | .00378 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01263** | **.00369** | **.13321** | **.00048** | **.00187** | **.65182** | **1.3949** | **.00119** | **.01682** | **-.00276** |
| Stddev | .00100 | .00004 | .00285 | .00047 | .00207 | .01902 | .0407 | .00024 | .00014 | .00161 |
| %RSD | 7.9416 | 1.1167 | 2.1406 | 97.810 | 110.71 | 2.9180 | 2.9180 | 20.412 | .85566 | 58.324 |
| #1 | .01192 | .00366 | .13119 | .00081 | .00041 | .66527 | 1.4237 | .00136 | .01672 | -.00390 |
| #2 | .01334 | .00372 | .13523 | .00015 | .00333 | .63837 | 1.3661 | .00101 | .01693 | -.00162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00521** | **-.00098** | **.03779** | **.00126** | **1.1068** | **-.00086** |
| Stddev | .00043 | .00080 | .01794 | .00017 | .0054 | .00025 |
| %RSD | 8.3069 | 80.874 | 47.473 | 13.842 | .48768 | 28.930 |
| #1 | .00552 | -.00042 | .05047 | .00114 | 1.1107 | -.00103 |
| #2 | .00490 | -.00155 | .02510 | .00139 | 1.1030 | -.00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8739.6** | **108860.** | **9794.4** |
| Stddev | 4.2 | 17. | 123.2 |
| %RSD | .04833 | .01589 | 1.2578 |
| #1 | 8736.6 | 108880. | 9881.5 |
| #2 | 8742.6 | 108850. | 9707.3 |

Sample Name: 280-45339-a-8-c  Acquired: 8/14/2013 21:58:19  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00027** | **.03061** | **.00246** | **.01247** | **.21415** | **.00005** | **.00315** | **8.2215** | **.00632** | **-.00006** |
| Stddev | .00024 | .00018 | .00119 | .00006 | .00013 | .00006 | .00181 | .0011 | .00025 | .00008 |
| %RSD | 90.374 | .60118 | 48.216 | .52008 | .06195 | 116.16 | 57.391 | .01327 | 3.9178 | 141.55 |
| #1 | -.00010 | .03048 | .00330 | .01243 | .21405 | .00010 | .00187 | 8.2207 | .00650 | .00000 |
| #2 | -.00044 | .03074 | .00162 | .01252 | .21424 | .00001 | .00443 | 8.2223 | .00615 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.47054** | **.03107** | **.77617** | **.00140** | **.33090** | **.03503** | **.00002** | **302.83** | **.00538** |
| Stddev | .00003 | .00015 | .00189 | .06102 | .00040 | .00304 | .00001 | .00038 | .62 | .00007 |
| %RSD | 15.340 | .03086 | 6.0704 | 7.8617 | 28.693 | .91924 | .02396 | 2270.4 | .20545 | 1.3872 |
| #1 | .00020 | .47064 | .03240 | .73302 | .00168 | .33305 | .03504 | .00029 | 302.39 | .00543 |
| #2 | .00025 | .47044 | .02974 | .81932 | .00111 | .32875 | .03503 | -.00025 | 303.27 | .00532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09533** | **.02105** | **.22993** | **.00046** | **.00145** | **.48216** | **1.0318** | **.00092** | **.04472** | **-.00198** |
| Stddev | .00009 | .00066 | .00171 | .00201 | .00076 | .00452 | .0097 | .00055 | .00028 | .00062 |
| %RSD | .09257 | 3.1176 | .74315 | 435.74 | 52.043 | .93792 | .93792 | 59.688 | .63646 | 31.332 |
| #1 | .09527 | .02058 | .23113 | -.00096 | .00092 | .47897 | 1.0250 | .00053 | .04451 | -.00241 |
| #2 | .09539 | .02151 | .22872 | .00189 | .00199 | .48536 | 1.0387 | .00130 | .04492 | -.00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **-.00053** | **.05450** | **.00081** | **1.0569** | **-.00136** |
| Stddev | .00006 | .00109 | .03198 | .00024 | .0011 | .00090 |
| %RSD | 8.8452 | 206.56 | 58.681 | 29.299 | .10487 | 66.341 |
| #1 | .00068 | .00024 | .07712 | .00098 | 1.0577 | -.00200 |
| #2 | .00060 | -.00130 | .03189 | .00064 | 1.0561 | -.00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8736.0** | **109500.** | **9635.2** |
| Stddev | 26.5 | 178. | 26.4 |
| %RSD | .30363 | .16226 | .27450 |
| #1 | 8754.8 | 109380. | 9616.5 |
| #2 | 8717.3 | 109630. | 9653.9 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 22:00:44 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **50.861** | **.00561** | **.00282** | **.00056** | **-.00008** | **1.0149** | **-.01118** | **-.00008** | **.00026** | **-.00030** | **.00353** | **49.499** |
| Stddev | .00001 | .043 | .00232 | .00023 | .00027 | .00002 | .0062 | .00017 | .00019 | .00016 | .00006 | .00013 | .135 |
| %RSD | 2.5017 | .08460 | 41.253 | 8.1541 | 48.442 | 18.120 | .61002 | 1.5048 | 239.11 | 61.285 | 20.547 | 3.5589 | .27251 |
| #1 | .00044 | 50.830 | .00725 | .00266 | .00076 | -.00009 | 1.0193 | -.01130 | .00005 | .00037 | -.00025 | .00362 | 49.403 |
| #2 | .00046 | 50.891 | .00398 | .00298 | .00037 | -.00007 | 1.0106 | -.01106 | -.00021 | .00015 | -.00034 | .00344 | 49.594 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28217** | **.00080** | **-.01619** | **-.00005** | **.00015** | **252.00** | **.00049** | **.00279** | **.00176** | **5.0530** | **.00350** | **-.00267** | **-.00285** |
| Stddev | .00485 | .00215 | .00315 | .00002 | .00004 | .09 | .00021 | .00046 | .00049 | .0042 | .00003 | .00002 | .00701 |
| %RSD | 1.7199 | 267.85 | 19.433 | 51.916 | 24.412 | .03467 | 42.754 | 16.337 | 27.610 | .08256 | .74751 | .67892 | 245.96 |
| #1 | .27874 | -.00072 | -.01841 | -.00003 | .00017 | 251.94 | .00034 | .00247 | .00210 | 5.0500 | .00348 | -.00266 | -.00781 |
| #2 | .28560 | .00233 | -.01396 | -.00007 | .00012 | 252.06 | .00064 | .00311 | .00141 | 5.0559 | .00351 | -.00268 | .00211 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00610** | **.00052** | **.00036** | **4.9085** | **-.00046** | **.00020** | **10.164** | **.00138** | **.00090** | **.03195** |
| Stddev | .01500 | .00021 | .00018 | .0194 | .00058 | .00030 | .071 | .00013 | .00006 | .00000 |
| %RSD | 245.96 | 40.207 | 48.996 | .39585 | 126.24 | 148.51 | .69852 | 9.5541 | 7.0118 | .00205 |
| #1 | -.01671 | .00067 | .00024 | 4.8948 | -.00005 | .00041 | 10.215 | .00147 | .00095 | .03195 |
| #2 | .00451 | .00037 | .00049 | 4.9222 | -.00087 | -.00001 | 10.114 | .00128 | .00086 | .03195 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8916.3** | **111230.** | **9638.1** |
| Stddev | 1.3 | 611. | 49.1 |
| %RSD | .01514 | .54952 | .50924 |
| #1 | 8915.3 | 110790. | 9672.8 |
| #2 | 8917.3 | 111660. | 9603.3 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 22:03:05 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50416** | **.52099** | **.98901** | **.50330** | **.48768** | **.49946** | **-.00059** | **5.0091** | **.50747** | **.51073** | **.49814** | **.51319** | **2.5299** |
| Stddev | .00268 | .00126 | .00024 | .00088 | .00202 | .00023 | .00026 | .0016 | .00072 | .00022 | .00025 | .00389 | .0019 |
| %RSD | .53138 | .24107 | .02457 | .17561 | .41447 | .04565 | 44.807 | .03150 | .14201 | .04250 | .05108 | .75809 | .07344 |
| #1 | .50606 | .52011 | .98918 | .50392 | .48911 | .49963 | -.00040 | 5.0080 | .50798 | .51058 | .49832 | .51594 | 2.5312 |
| #2 | .50227 | .52188 | .98884 | .50267 | .48625 | .49930 | -.00078 | 5.0102 | .50696 | .51088 | .49796 | .51044 | 2.5286 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.153** | **.98481** | **19.514** | **.50726** | **.49377** | F **5.5591** | **.50312** | **.97936** | **1.0177** | **.01345** | **1.0293** | **1.0027** | **4.9387** |
| Stddev | .029 | .00459 | .153 | .00449 | .00099 | .0068 | .00047 | .00074 | .0030 | .00293 | .0060 | .0126 | .0277 |
| %RSD | .05828 | .46604 | .78146 | .88599 | .20087 | .12195 | .09286 | .07535 | .29444 | 21.794 | .58029 | 1.2558 | .56046 |
| #1 | 50.173 | .98806 | 19.622 | .51043 | .49447 | 5.5639 | .50345 | .97988 | 1.0198 | .01138 | 1.0335 | 1.0116 | 4.9582 |
| #2 | 50.132 | .98157 | 19.406 | .50408 | .49307 | 5.5543 | .50279 | .97884 | 1.0156 | .01553 | 1.0251 | .99379 | 4.9191 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 5.0000 | | | | | | | |
| Range | | | | | | 10.490% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.569** | **.99486** | **.50350** | **-.00441** | **.51126** | **1.0364** | **.03600** | **.50788** | **.49425** | **.50682** |
| Stddev | .059 | .00546 | .00094 | .00004 | .00506 | .0090 | .00139 | .00404 | .00620 | .00125 |
| %RSD | .56046 | .54835 | .18709 | .91617 | .99048 | .86522 | 3.8575 | .79481 | 1.2547 | .24577 |
| #1 | 10.611 | .99872 | .50417 | -.00438 | .51484 | 1.0427 | .03502 | .51073 | .49864 | .50770 |
| #2 | 10.527 | .99100 | .50284 | -.00444 | .50768 | 1.0300 | .03698 | .50502 | .48987 | .50594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9059.7** | **114140.** | **9664.5** |
| Stddev | 17.5 | 685. | 83.4 |
| %RSD | .19340 | .60035 | .86306 |
| #1 | 9072.1 | 113660. | 9723.5 |
| #2 | 9047.3 | 114620. | 9605.5 |

Sample Name: CCB Acquired: 8/14/2013 22:05:13 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **-.00037** | **.00133** | **.00242** | **-.00048** | **.00003** | **.00091** | **.00116** | **.00005** | **.00014** | **-.00008** |
| Stddev | .00022 | .00010 | .00332 | .00004 | .00027 | .00006 | .00109 | .00245 | .00012 | .00013 | .00001 |
| %RSD | 204.56 | 26.946 | 249.68 | 1.5040 | 57.104 | 168.99 | 120.46 | 210.42 | 246.31 | 92.328 | 9.3939 |
| #1 | -.00005 | -.00030 | -.00102 | .00240 | -.00067 | .00008 | .00168 | .00289 | .00013 | .00023 | -.00008 |
| #2 | .00026 | -.00044 | .00368 | .00245 | -.00029 | -.00001 | .00013 | -.00057 | -.00004 | .00005 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **.00056** | **.18850** | **.00162** | **.00207** | **.00007** | **.00039** | F **.36604** | **.00011** | **.00111** | **-.00033** |
| Stddev | .00055 | .00187 | .02750 | .00498 | .00027 | .00004 | .00025 | .01289 | .00001 | .00084 | .00110 |
| %RSD | 107.17 | 334.16 | 14.588 | 307.88 | 12.942 | 62.749 | 64.420 | 3.5223 | 12.635 | 75.070 | 330.97 |
| #1 | -.00090 | -.00076 | .20795 | -.00191 | .00188 | .00010 | .00021 | .35692 | .00012 | .00052 | -.00111 |
| #2 | -.00012 | .00188 | .16906 | .00514 | .00226 | .00004 | .00057 | .37516 | .00010 | .00171 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .18320 | | | |
| Low Limit | | | | | | | | -.18320 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01105** | W **.00449** | **.00214** | **-.00022** | **-.00047** | **.00086** | **-.00002** | **-.00003** | **.00004** | **-.00158** | **.03665** |
| Stddev | .00031 | .00166 | .00326 | .00047 | .00100 | .00029 | .00003 | .00107 | .00002 | .00192 | .07668 |
| %RSD | 2.7940 | 36.937 | 152.56 | 211.14 | 211.14 | 33.544 | 192.59 | 3495.9 | 42.014 | 121.57 | 209.23 |
| #1 | .01127 | .00332 | .00444 | .00011 | .00023 | .00107 | -.00004 | -.00079 | .00005 | -.00294 | .09087 |
| #2 | .01083 | .00567 | -.00017 | -.00055 | -.00118 | .00066 | .00001 | .00072 | .00003 | -.00022 | -.01757 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00086** | **.00166** | W **-.00385** |
| Stddev | .00008 | .00022 | .00065 |
| %RSD | 9.0145 | 13.128 | 16.751 |
| #1 | .00091 | .00150 | -.00431 |
| #2 | .00080 | .00181 | -.00340 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9054.0** | **116360.** | **9543.6** |
| Stddev | 27.2 | 544. | 137.6 |
| %RSD | .30004 | .46792 | 1.4422 |
| #1 | 9073.2 | 115980. | 9640.9 |
| #2 | 9034.8 | 116750. | 9446.3 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 22:07:28 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01026** | **.10760** | **.01555** | **.09583** | **.00992** | **.00101** | **.11099** | **.20534** | **.00521** | **.01086** | **.01005** | **.01550** | **.10391** |
| Stddev | .00014 | .00008 | .00141 | .00035 | .00007 | .00007 | .00388 | .00005 | .00002 | .00034 | .00005 | .00016 | .00145 |
| %RSD | 1.3546 | .07513 | 9.0568 | .36938 | .71458 | 7.4517 | 3.5003 | .02669 | .33658 | 3.1676 | .48181 | 1.0100 | 1.3990 |
| #1 | .01036 | .10755 | .01654 | .09558 | .00997 | .00095 | .10824 | .20538 | .00522 | .01110 | .01009 | .01561 | .10288 |
| #2 | .01016 | .10766 | .01455 | .09608 | .00987 | .00106 | .11374 | .20530 | .00519 | .01062 | .01002 | .01539 | .10493 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2231** | **.01021** | **.20009** | **.01038** | **.01956** | F **1.4183** | **.04128** | **2.7878** | **.00965** | **.00975** | **.01047** | **.01731** | **.47686** |
| Stddev | .0646 | .00175 | .00013 | .00003 | .00007 | .0049 | .00039 | .0040 | .00017 | .00063 | .00162 | .00217 | .00553 |
| %RSD | 2.0044 | 17.161 | .06588 | .32321 | .37446 | .34470 | .94239 | .14326 | 1.7283 | 6.4232 | 15.429 | 12.510 | 1.1605 |
| #1 | 3.1774 | .00897 | .19999 | .01036 | .01961 | 1.4149 | .04101 | 2.7850 | .00977 | .00931 | .00933 | .01885 | .48078 |
| #2 | 3.2688 | .01145 | .20018 | .01040 | .01951 | 1.4218 | .04156 | 2.7907 | .00954 | .01020 | .01162 | .01578 | .47295 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0205** | **.10140** | **.01016** | **.01307** | **.01015** | **.01494** | F **.08704** | **.01068** | **.02081** | **.01356** |
| Stddev | .0118 | .00109 | .00015 | .00114 | .00017 | .00083 | .00786 | .00064 | .00029 | .00152 |
| %RSD | 1.1605 | 1.0776 | 1.4711 | 8.7296 | 1.6914 | 5.5706 | 9.0352 | 5.9478 | 1.3990 | 11.211 |
| #1 | 1.0289 | .10063 | .01006 | .01388 | .01027 | .01435 | .08148 | .01113 | .02101 | .01463 |
| #2 | 1.0121 | .10218 | .01027 | .01226 | .01003 | .01553 | .09260 | .01023 | .02060 | .01248 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9068.8** | **116400.** | **9534.7** |
| Stddev | 12.4 | 564. | 24.4 |
| %RSD | .13688 | .48484 | .25614 |
| #1 | 9077.6 | 116800. | 9551.9 |
| #2 | 9060.0 | 116010. | 9517.4 |

Sample Name: 280-45339-a-11-c  Acquired: 8/14/2013 22:09:46  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **.03642** | **.00254** | **.01483** | **.20116** | **.00013** | **.00022** | **8.4464** | **.00611** | **-.00002** |
| Stddev | .00003 | .00007 | .00135 | .00006 | .00146 | .00000 | .00042 | .0396 | .00005 | .00006 |
| %RSD | 11.152 | .19752 | 53.117 | .40388 | .72556 | 3.2587 | 188.28 | .46881 | .79904 | 271.71 |
| #1 | -.00024 | .03637 | .00159 | .01479 | .20012 | .00012 | .00052 | 8.4184 | .00608 | .00002 |
| #2 | -.00028 | .03647 | .00349 | .01487 | .20219 | .00013 | -.00007 | 8.4744 | .00615 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.42628** | **.03177** | **.68713** | **.00000** | **.33244** | **.03731** | **-.00028** | **265.16** | **.00556** |
| Stddev | .00002 | .00089 | .00401 | .06491 | .00205 | .00132 | .00010 | .00011 | .23 | .00002 |
| %RSD | 10.399 | .20822 | 12.609 | 9.4464 | 109420. | .39716 | .27147 | 38.828 | .08762 | .39155 |
| #1 | .00017 | .42565 | .02894 | .64124 | .00145 | .33338 | .03724 | -.00020 | 265.00 | .00554 |
| #2 | .00014 | .42691 | .03461 | .73303 | -.00145 | .33151 | .03738 | -.00035 | 265.32 | .00558 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10283** | **.01075** | **.20557** | **.00061** | **.00447** | **.52236** | **1.1178** | **.00069** | **.04553** | **-.00191** |
| Stddev | .00068 | .00132 | .00498 | .00047 | .00315 | .00968 | .0207 | .00000 | .00046 | .00075 |
| %RSD | .66271 | 12.244 | 2.4219 | 76.640 | 70.548 | 1.8528 | 1.8528 | .11047 | 1.0058 | 39.301 |
| #1 | .10234 | .00982 | .20909 | .00095 | .00224 | .51552 | 1.1032 | .00069 | .04520 | -.00138 |
| #2 | .10331 | .01168 | .20205 | .00028 | .00670 | .52920 | 1.1325 | .00069 | .04585 | -.00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **-.00069** | **.03948** | **.00114** | **1.1242** | **-.00079** |
| Stddev | .00016 | .00029 | .03764 | .00051 | .0008 | .00138 |
| %RSD | 19.966 | 42.706 | 95.338 | 44.965 | .06922 | 174.17 |
| #1 | .00093 | -.00090 | .01287 | .00150 | 1.1248 | .00018 |
| #2 | .00070 | -.00048 | .06610 | .00078 | 1.1237 | -.00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8690.2** | **108150.** | **9415.9** |
| Stddev | 17.9 | 454. | 20.2 |
| %RSD | .20573 | .41959 | .21443 |
| #1 | 8702.8 | 108470. | 9430.2 |
| #2 | 8677.6 | 107830. | 9401.6 |

Sample Name: 280-45339-a-12-g  Acquired: 8/14/2013 22:12:10  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **.18165** | **.00318** | **.01285** | **.35328** | **.00031** | **-.00056** | **25.299** | **.00424** | **.03807** |
| Stddev | .00001 | .00272 | .00182 | .00026 | .00150 | .00001 | .00126 | .070 | .00017 | .00023 |
| %RSD | 3.0656 | 1.4950 | 57.360 | 2.0323 | .42495 | 2.0318 | 225.25 | .27734 | 4.0186 | .60594 |
| #1 | -.00036 | .18357 | .00189 | .01304 | .35221 | .00031 | .00033 | 25.249 | .00436 | .03824 |
| #2 | -.00035 | .17973 | .00447 | .01267 | .35434 | .00030 | -.00145 | 25.348 | .00412 | .03791 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.10061** | **.17337** | **.73876** | **-.00046** | **.26056** | **3.1190** | **-.00040** | **279.61** | **.02415** |
| Stddev | .00008 | .00040 | .00124 | .04663 | .00248 | .00055 | .0369 | .00005 | .65 | .00030 |
| %RSD | 14.305 | .39677 | .71569 | 6.3113 | 539.37 | .21031 | 1.1842 | 12.182 | .23200 | 1.2444 |
| #1 | .00051 | .10089 | .17425 | .70579 | -.00221 | .26095 | 3.1451 | -.00043 | 279.15 | .02393 |
| #2 | .00063 | .10033 | .17250 | .77172 | .00129 | .26017 | 3.0929 | -.00036 | 280.07 | .02436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00731** | **.02559** | **.29952** | **.00183** | **.00146** | **.84177** | **1.8014** | **.00125** | **.06196** | **-.00163** |
| Stddev | .00032 | .00104 | .00173 | .00046 | .00023 | .00743 | .0159 | .00105 | .00004 | .00175 |
| %RSD | 4.4396 | 4.0694 | .57689 | 25.172 | 15.833 | .88306 | .88306 | 84.293 | .07128 | 107.58 |
| #1 | .00754 | .02633 | .30074 | .00150 | .00162 | .83651 | 1.7901 | .00199 | .06193 | -.00286 |
| #2 | .00708 | .02486 | .29830 | .00215 | .00129 | .84702 | 1.8126 | .00050 | .06199 | -.00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00450** | **-.00120** | **.03245** | **.00411** | **.51692** | **-.00261** |
| Stddev | .00008 | .00044 | .01935 | .00065 | .00116 | .00045 |
| %RSD | 1.6779 | 36.618 | 59.634 | 15.911 | .22428 | 17.290 |
| #1 | .00445 | -.00089 | .04613 | .00458 | .51774 | -.00229 |
| #2 | .00456 | -.00151 | .01876 | .00365 | .51610 | -.00293 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8673.5** | **107700.** | **9453.8** |
| Stddev | 35.5 | 59. | 1.4 |
| %RSD | .40972 | .05481 | .01518 |
| #1 | 8648.4 | 107660. | 9454.8 |
| #2 | 8698.7 | 107740. | 9452.7 |

Sample Name: 280-45339-a-12-gSD@5 Acquired: 8/14/2013 22:14:38 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **.04443** | **.00253** | **.00422** | **.07184** | **.00005** | **-.00084** | **5.1421** | **.00077** | **.00788** |
| Stddev | .00033 | .00042 | .00011 | .00010 | .00010 | .00010 | .00180 | .0068 | .00035 | .00015 |
| %RSD | 127.47 | .94412 | 4.5326 | 2.4749 | .13459 | 219.14 | 216.00 | .13307 | 45.779 | 1.8986 |
| #1 | -.00049 | .04473 | .00245 | .00430 | .07177 | -.00003 | .00044 | 5.1372 | .00052 | .00799 |
| #2 | -.00003 | .04414 | .00261 | .00415 | .07191 | .00012 | -.00211 | 5.1469 | .00102 | .00778 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.02046** | **.04722** | **.32324** | **-.00364** | **.05593** | **.63895** | **-.00017** | **57.132** | **.00500** |
| Stddev | .00015 | .00053 | .00013 | .00490 | .00036 | .00059 | .00668 | .00007 | .723 | .00013 |
| %RSD | 143.74 | 2.5772 | .28175 | 1.5154 | 9.9963 | 1.0565 | 1.0462 | 41.457 | 1.2662 | 2.5902 |
| #1 | .00000 | .02083 | .04713 | .32670 | -.00338 | .05635 | .64368 | -.00022 | 56.621 | .00491 |
| #2 | .00021 | .02009 | .04732 | .31978 | -.00390 | .05551 | .63423 | -.00012 | 57.644 | .00509 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00247** | **.00578** | **.07138** | **.00085** | **.00232** | **.15272** | **.32683** | **.00066** | **.01273** | **.00024** |
| Stddev | .00016 | .00109 | .00114 | .00029 | .00085 | .01346 | .02881 | .00019 | .00003 | .00013 |
| %RSD | 6.5339 | 18.790 | 1.5918 | 33.676 | 36.638 | 8.8163 | 8.8163 | 28.833 | .25444 | 52.903 |
| #1 | .00259 | .00655 | .07058 | .00065 | .00172 | .14320 | .30645 | .00079 | .01276 | .00015 |
| #2 | .00236 | .00501 | .07218 | .00105 | .00293 | .16224 | .34720 | .00053 | .01271 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00100** | **-.00080** | **-.01640** | **.00144** | **.10583** | **-.00170** |
| Stddev | .00023 | .00019 | .03032 | .00006 | .00088 | .00000 |
| %RSD | 23.046 | 24.193 | 184.83 | 4.4953 | .83382 | .13913 |
| #1 | .00084 | -.00066 | .00503 | .00139 | .10646 | -.00170 |
| #2 | .00116 | -.00093 | -.03784 | .00148 | .10521 | -.00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8992.1** | **113510.** | **9574.4** |
| Stddev | 5.1 | 621. | 93.4 |
| %RSD | .05640 | .54735 | .97594 |
| #1 | 8995.7 | 113080. | 9508.4 |
| #2 | 8988.5 | 113950. | 9640.5 |

Sample Name: 280-45339-a-12-h ms  Acquired: 8/14/2013 22:16:58  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .23113 | .65803 | .88137 | .22162 | 2.8871 | .01104 | F .43512 | 34.825 | .25091 | .14302 |
| Stddev | .00055 | .00024 | .00324 | .00018 | .0017 | .00001 | .00011 | .015 | .00001 | .00001 |
| %RSD | .23969 | .03676 | .36803 | .08326 | .05826 | .07118 | .02507 | .04323 | .00519 | .00859 |
| #1 | .23152 | .65820 | .87908 | .22149 | 2.8859 | .01103 | .43504 | 34.836 | .25091 | .14301 |
| #2 | .23074 | .65786 | .88367 | .22175 | 2.8883 | .01104 | .43519 | 34.815 | .25092 | .14303 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.1219 | .59131 | .37708 | 11.605 | .20916 | 10.220 | 3.0939 | .21328 | 279.63 | .12901 |
| Stddev | .0010 | .00245 | .00008 | .001 | .00001 | .012 | .0265 | .00007 | .26 | .00007 |
| %RSD | .09009 | .41450 | .02147 | .01169 | .00593 | .11755 | .85650 | .03147 | .09387 | .05486 |
| #1 | 1.1212 | .59304 | .37703 | 11.606 | .20917 | 10.228 | 3.1126 | .21332 | 279.81 | .12906 |
| #2 | 1.1226 | .58957 | .37714 | 11.604 | .20915 | 10.211 | 3.0752 | .21323 | 279.44 | .12896 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 2.2066 | 1.2114 | .28298 | .10585 | .65074 | 3.0888 | 6.6100 | .41954 | .27441 | .20828 |
| Stddev | .0051 | .0018 | .00167 | .00095 | .00290 | .0106 | .0227 | .00053 | .00004 | .00096 |
| %RSD | .23084 | .14785 | .58991 | .89849 | .44518 | .34276 | .34276 | .12729 | .01326 | .46017 |
| #1 | 2.2030 | 1.2126 | .28416 | .10652 | .65279 | 3.0963 | 6.6261 | .41916 | .27439 | .20760 |
| #2 | 2.2102 | 1.2101 | .28180 | .10518 | .64870 | 3.0813 | 6.5940 | .41992 | .27444 | .20896 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .22702 | .40857 | .41561 | .11546 | 1.0418 | .10932 |
| Stddev | .00149 | .00031 | .03570 | .00003 | .0006 | .00073 |
| %RSD | .65739 | .07706 | 8.5892 | .02599 | .05613 | .66741 |
| #1 | .22596 | .40880 | .44085 | .11548 | 1.0422 | .10984 |
| #2 | .22807 | .40835 | .39036 | .11544 | 1.0414 | .10881 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8711.1 | 108910. | 9568.7 |
| Stddev | 14.0 | 38. | 67.0 |
| %RSD | .16034 | .03460 | .70065 |
| #1 | 8701.3 | 108940. | 9521.3 |
| #2 | 8721.0 | 108880. | 9616.1 |

Sample Name: 280-45339-a-12-i msd  Acquired: 8/14/2013 22:19:18  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .22739 | .70490 | .87241 | .21842 | 2.8432 | .01091 | F .43298 | 34.400 | .24838 | .14205 |
| Stddev | .00097 | .00093 | .00042 | .00009 | .0189 | .00007 | .00512 | .248 | .00005 | .00022 |
| %RSD | .42585 | .13165 | .04774 | .03898 | .66537 | .62540 | 1.1819 | .72200 | .02145 | .15302 |
| #1 | .22808 | .70555 | .87211 | .21836 | 2.8299 | .01086 | .43659 | 34.224 | .24842 | .14221 |
| #2 | .22671 | .70424 | .87270 | .21848 | 2.8566 | .01096 | .42936 | 34.575 | .24834 | .14190 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.1067 | .58481 | .37289 | 11.500 | .20830 | 10.069 | 3.0559 | .21074 | 275.87 | .12817 |
| Stddev | .0001 | .00021 | .00302 | .096 | .00356 | .008 | .0055 | .00020 | 2.20 | .00059 |
| %RSD | .01370 | .03577 | .81090 | .83634 | 1.7107 | .07803 | .17861 | .09492 | .79715 | .45943 |
| #1 | 1.1068 | .58496 | .37075 | 11.432 | .20578 | 10.075 | 3.0598 | .21089 | 274.31 | .12858 |
| #2 | 1.1066 | .58466 | .37503 | 11.568 | .21082 | 10.064 | 3.0521 | .21060 | 277.42 | .12775 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 2.1825 | 1.1982 | .28419 | .10547 | .64595 | 3.1435 | 6.7272 | .41324 | .27159 | .20540 |
| Stddev | .0017 | .0003 | .00221 | .00058 | .00281 | .0149 | .0318 | .00265 | .00220 | .00188 |
| %RSD | .07564 | .02529 | .77671 | .55234 | .43534 | .47231 | .47231 | .64158 | .80871 | .91743 |
| #1 | 2.1814 | 1.1984 | .28576 | .10588 | .64794 | 3.1540 | 6.7496 | .41512 | .27004 | .20407 |
| #2 | 2.1837 | 1.1980 | .28263 | .10506 | .64396 | 3.1330 | 6.7047 | .41137 | .27315 | .20673 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .22557 | .40452 | .46544 | .11402 | 1.0261 | .10622 |
| Stddev | .00039 | .00215 | .04385 | .00058 | .0055 | .00265 |
| %RSD | .17328 | .53265 | 9.4218 | .50611 | .53889 | 2.4940 |
| #1 | .22529 | .40604 | .43444 | .11443 | 1.0300 | .10810 |
| #2 | .22584 | .40300 | .49645 | .11361 | 1.0222 | .10435 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8756.3 | 109300. | 9692.9 |
| Stddev | 19.5 | 598. | 24.0 |
| %RSD | .22301 | .54702 | .24746 |
| #1 | 8742.5 | 108880. | 9676.0 |
| #2 | 8770.1 | 109730. | 9709.9 |

Sample Name: 280-45339-a-16-c  Acquired: 8/14/2013 22:21:37  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186944 TCLP 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.02399** | **.00591** | **.01069** | **.19970** | **.00008** | **.00113** | **9.5448** | **.00395** | **.00015** |
| Stddev | .00025 | .00007 | .00241 | .00017 | .00014 | .00009 | .00130 | .0179 | .00021 | .00005 |
| %RSD | 193.62 | .29494 | 40.752 | 1.5729 | .06906 | 107.07 | 114.69 | .18767 | 5.2382 | 30.597 |
| #1 | -.00031 | .02404 | .00762 | .01081 | .19960 | .00002 | .00205 | 9.5575 | .00380 | .00012 |
| #2 | .00005 | .02394 | .00421 | .01057 | .19979 | .00015 | .00021 | 9.5322 | .00409 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00588** | **.01677** | **.60370** | **.00193** | **.18941** | **.06344** | **.00023** | **234.20** | **.00540** |
| Stddev | .00002 | .00005 | .00145 | .08013 | .00275 | .00058 | .00013 | .00009 | .25 | .00011 |
| %RSD | 6.0985 | .80215 | 8.6312 | 13.274 | 142.34 | .30521 | .20253 | 38.970 | .10679 | 2.0414 |
| #1 | .00028 | .00585 | .01575 | .66037 | -.00001 | .18982 | .06335 | .00016 | 234.38 | .00548 |
| #2 | .00026 | .00592 | .01779 | .54704 | .00387 | .18900 | .06353 | .00029 | 234.03 | .00532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02692** | **-.00008** | **.17798** | **.00071** | **.00267** | **.56492** | **1.2089** | **.00098** | **.02392** | **.00003** |
| Stddev | .00064 | .00012 | .00173 | .00102 | .00345 | .02453 | .0525 | .00017 | .00002 | .00056 |
| %RSD | 2.3614 | 157.08 | .97451 | 144.10 | 129.21 | 4.3430 | 4.3430 | 17.000 | .07377 | 1892.5 |
| #1 | .02737 | .00001 | .17921 | -.00001 | .00023 | .54757 | 1.1718 | .00109 | .02390 | .00042 |
| #2 | .02647 | -.00017 | .17676 | .00143 | .00511 | .58227 | 1.2461 | .00086 | .02393 | -.00036 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **-.00023** | **.02405** | **.00136** | **.76224** | **-.00212** |
| Stddev | .00001 | .00158 | .05086 | .00040 | .00238 | .00034 |
| %RSD | 2.1485 | 675.21 | 211.43 | 29.542 | .31273 | 16.115 |
| #1 | .00043 | -.00135 | .06001 | .00165 | .76055 | -.00237 |
| #2 | .00044 | .00089 | -.01191 | .00108 | .76392 | -.00188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8815.6** | **110430.** | **9682.3** |
| Stddev | 24.6 | 289. | 49.1 |
| %RSD | .27960 | .26144 | .50747 |
| #1 | 8798.1 | 110630. | 9647.5 |
| #2 | 8833.0 | 110220. | 9717.0 |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 22:24:01 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **50.569** | **.00445** | **.00268** | **.00081** | **-.00005** | **1.0128** | **-.01142** | **-.00019** | **.00017** | **-.00017** | **.00278** | **48.665** |
| Stddev | .00001 | .005 | .00026 | .00028 | .00005 | .00006 | .0012 | .00039 | .00020 | .00012 | .00014 | .00019 | .005 |
| %RSD | 1.8682 | .01035 | 5.8139 | 10.469 | 5.8533 | 106.93 | .11527 | 3.4429 | 107.41 | 74.138 | 77.649 | 6.9349 | .00980 |
| #1 | .00070 | 50.572 | .00464 | .00288 | .00077 | -.00009 | 1.0136 | -.01170 | -.00033 | .00008 | -.00008 | .00291 | 48.662 |
| #2 | .00072 | 50.565 | .00427 | .00248 | .00084 | -.00001 | 1.0120 | -.01115 | -.00004 | .00026 | -.00027 | .00264 | 48.668 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19826** | **.00021** | **-.01104** | **-.00009** | **-.00011** | **249.71** | **.00061** | **.00255** | **.00203** | **5.0958** | **.00250** | **-.00035** | **.00043** |
| Stddev | .05995 | .00224 | .00022 | .00011 | .00014 | .40 | .00023 | .00029 | .00069 | .0090 | .00156 | .00204 | .00915 |
| %RSD | 30.240 | 1078.5 | 2.0043 | 121.32 | 126.00 | .16156 | 37.690 | 11.212 | 34.171 | .17742 | 62.374 | 577.47 | 2145.0 |
| #1 | .24065 | -.00137 | -.01088 | -.00017 | -.00001 | 249.43 | .00078 | .00234 | .00252 | 5.1022 | .00140 | .00109 | .00689 |
| #2 | .15587 | .00179 | -.01120 | -.00001 | -.00020 | 250.00 | .00045 | .00275 | .00154 | 5.0894 | .00361 | -.00179 | -.00604 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00091** | **.00027** | **.00026** | **4.9241** | **-.00072** | **.00011** | **10.104** | **.00129** | **.00091** | **.02471** |
| Stddev | .01957 | .00005 | .00007 | .0223 | .00035 | .00178 | .036 | .00019 | .00013 | .00152 |
| %RSD | 2145.0 | 20.008 | 25.666 | .45311 | 48.444 | 1674.4 | .35891 | 14.487 | 13.758 | 6.1526 |
| #1 | .01475 | .00023 | .00030 | 4.9398 | -.00047 | .00136 | 10.130 | .00116 | .00100 | .02579 |
| #2 | -.01293 | .00031 | .00021 | 4.9083 | -.00096 | -.00115 | 10.079 | .00142 | .00082 | .02363 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8908.1** | **111320.** | **9693.6** |
| Stddev | 4.4 | 280. | 38.4 |
| %RSD | .04918 | .25175 | .39619 |
| #1 | 8911.2 | 111520. | 9720.8 |
| #2 | 8905.0 | 111120. | 9666.5 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 22:26:24 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50072** | **.52446** | **.98088** | **.49993** | **.47834** | **.49551** | **.00033** | **4.9665** | **.50600** | **.51113** | **.49545** | **.51107** |
| Stddev | .00032 | .00083 | .00119 | .00049 | .00273 | .00271 | .00033 | .0228 | .00004 | .00068 | .00011 | .00122 |
| %RSD | .06353 | .15845 | .12113 | .09877 | .57142 | .54762 | 98.273 | .45843 | .00732 | .13358 | .02145 | .23806 |
| #1 | .50050 | .52387 | .98004 | .49958 | .48028 | .49743 | .00056 | 4.9826 | .50603 | .51065 | .49552 | .51021 |
| #2 | .50095 | .52505 | .98172 | .50028 | .47641 | .49359 | .00010 | 4.9504 | .50597 | .51161 | .49537 | .51193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.4931** | **49.733** | **.97728** | **19.362** | **.50686** | **.49019** | W **5.5018** | **.50113** | **.97296** | **1.0156** | **.00528** | **1.0320** |
| Stddev | .0123 | .169 | .00543 | .004 | .00049 | .00007 | .0543 | .00100 | .00066 | .0026 | .00191 | .0032 |
| %RSD | .49128 | .34009 | .55518 | .02206 | .09763 | .01457 | .98668 | .19866 | .06815 | .25749 | 36.176 | .30556 |
| #1 | 2.5018 | 49.852 | .98111 | 19.365 | .50651 | .49014 | 5.5402 | .50184 | .97343 | 1.0174 | .00663 | 1.0297 |
| #2 | 2.4844 | 49.613 | .97344 | 19.359 | .50721 | .49025 | 5.4635 | .50043 | .97249 | 1.0137 | .00393 | 1.0342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | 5.0000 | | | | | |
| Range | | | | | | | 10.000% | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99599** | **4.8689** | **10.420** | **.99179** | **.50101** | **-.00517** | **.51162** | **1.0410** | **.00855** | **.50530** | **.49056** | **.50672** |
| Stddev | .00023 | .0112 | .024 | .00148 | .00211 | .00281 | .00021 | .0013 | .02566 | .00082 | .00095 | .00427 |
| %RSD | .02303 | .22899 | .22899 | .14888 | .42037 | 54.219 | .04135 | .12162 | 300.29 | .16275 | .19297 | .84285 |
| #1 | .99615 | 4.8610 | 10.403 | .99075 | .50250 | -.00716 | .51147 | 1.0401 | .02669 | .50472 | .48989 | .50370 |
| #2 | .99583 | 4.8768 | 10.436 | .99284 | .49952 | -.00319 | .51177 | 1.0419 | -.00960 | .50589 | .49123 | .50974 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9055.7** | **114430.** | **9618.9** |
| Stddev | 1.9 | 58. | 75.2 |
| %RSD | .02137 | .05101 | .78217 |
| #1 | 9057.1 | 114470. | 9565.7 |
| #2 | 9054.4 | 114380. | 9672.1 |

Sample Name: CCB Acquired: 8/14/2013 22:28:31 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **.00702** | **.00215** | **.00191** | **.00015** | **-.00002** | **-.00040** | **-.00351** | **-.00010** | **.00010** | **-.00013** |
| Stddev | .00032 | .00009 | .00165 | .00003 | .00013 | .00006 | .00253 | .00152 | .00006 | .00004 | .00010 |
| %RSD | 1771.1 | 1.2110 | 76.385 | 1.6605 | 87.226 | 242.78 | 635.53 | 43.267 | 59.277 | 40.574 | 80.917 |
| #1 | -.00025 | .00708 | .00099 | .00193 | .00006 | -.00007 | -.00219 | -.00459 | -.00006 | .00013 | -.00005 |
| #2 | .00021 | .00696 | .00332 | .00188 | .00025 | .00002 | .00139 | -.00244 | -.00014 | .00007 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00092** | **.00128** | **.12071** | **.00122** | **.00028** | **.00007** | **.00046** | F **.31657** | **-.00015** | **.00169** | **.00013** |
| Stddev | .00019 | .00034 | .02442 | .00023 | .00084 | .00003 | .00003 | .00595 | .00002 | .00030 | .00036 |
| %RSD | 20.610 | 26.536 | 20.229 | 18.566 | 302.55 | 40.793 | 7.2587 | 1.8802 | 12.320 | 17.522 | 285.17 |
| #1 | -.00105 | .00104 | .13797 | .00106 | .00088 | .00005 | .00043 | .31236 | -.00013 | .00190 | .00038 |
| #2 | -.00078 | .00152 | .10344 | .00138 | -.00032 | .00009 | .00048 | .32078 | -.00016 | .00148 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .18320 | | | |
| Low Limit | | | | | | | | -.18320 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00845** | **.00102** | **.00153** | **-.00822** | **-.01759** | **.00096** | **.00006** | **.00019** | **.00011** | **-.00037** | **.03162** |
| Stddev | .00098 | .00011 | .00109 | .00497 | .01065 | .00093 | .00006 | .00124 | .00033 | .00024 | .02847 |
| %RSD | 11.612 | 10.410 | 71.371 | 60.512 | 60.512 | 96.136 | 110.19 | 665.08 | 300.91 | 64.130 | 90.032 |
| #1 | .00915 | .00109 | .00076 | -.01174 | -.02512 | .00031 | .00001 | -.00069 | .00035 | -.00020 | .05175 |
| #2 | .00776 | .00094 | .00231 | -.00470 | -.01007 | .00162 | .00010 | .00106 | -.00012 | -.00053 | .01149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00067** | **.00113** | W **-.00258** |
| Stddev | .00017 | .00003 | .00149 |
| %RSD | 24.909 | 3.0063 | 57.707 |
| #1 | .00079 | .00115 | -.00364 |
| #2 | .00056 | .00110 | -.00153 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9108.3** | **116710.** | **9598.8** |
| Stddev | 12.9 | 223. | 106.8 |
| %RSD | .14140 | .19105 | 1.1130 |
| #1 | 9117.4 | 116550. | 9674.3 |
| #2 | 9099.2 | 116870. | 9523.2 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 22:30:48 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01039** | **.10867** | **.01705** | **.09577** | **.00999** | **.00103** | **.11005** | **.20567** | **.00512** | **.01072** | **.01012** | **.01513** | **.10586** |
| Stddev | .00000 | .00016 | .00017 | .00049 | .00020 | .00003 | .00090 | .00116 | .00022 | .00001 | .00008 | .00003 | .00221 |
| %RSD | .01577 | .15068 | .98989 | .50644 | 1.9701 | 2.4901 | .82067 | .56455 | 4.3730 | .11030 | .79052 | .17816 | 2.0915 |
| #1 | .01039 | .10855 | .01693 | .09612 | .00985 | .00105 | .11069 | .20484 | .00528 | .01071 | .01018 | .01511 | .10430 |
| #2 | .01038 | .10878 | .01717 | .09543 | .01013 | .00101 | .10941 | .20649 | .00496 | .01072 | .01007 | .01515 | .10743 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2434** | **.00975** | **.19933** | **.01035** | **.01955** | F **1.3788** | **.04136** | **2.7865** | **.00908** | **.00941** | **.00990** | **.01894** | **.48412** |
| Stddev | .0433 | .00055 | .00109 | .00000 | .00015 | .0139 | .00023 | .0083 | .00099 | .00081 | .00006 | .00067 | .00661 |
| %RSD | 1.3346 | 5.6752 | .54779 | .03791 | .77048 | 1.0090 | .56416 | .29898 | 10.884 | 8.5726 | .61336 | 3.5305 | 1.3652 |
| #1 | 3.2128 | .01014 | .20010 | .01035 | .01945 | 1.3690 | .04153 | 2.7924 | .00838 | .00884 | .00994 | .01941 | .47944 |
| #2 | 3.2740 | .00936 | .19855 | .01034 | .01966 | 1.3887 | .04120 | 2.7806 | .00977 | .00998 | .00985 | .01846 | .48879 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0360** | **.10091** | **.01042** | **.01340** | **.01046** | **.01416** | **.07614** | **.01052** | **.02088** | **.01313** |
| Stddev | .0141 | .00041 | .00004 | .00187 | .00023 | .00006 | .00000 | .00019 | .00041 | .00138 |
| %RSD | 1.3652 | .40342 | .39216 | 13.966 | 2.2240 | .45856 | .00548 | 1.7756 | 1.9493 | 10.523 |
| #1 | 1.0260 | .10062 | .01045 | .01472 | .01062 | .01411 | .07614 | .01065 | .02117 | .01215 |
| #2 | 1.0460 | .10120 | .01039 | .01208 | .01029 | .01420 | .07615 | .01039 | .02059 | .01410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9134.1** | **117580.** | **9645.3** |
| Stddev | 44.1 | 99. | 88.1 |
| %RSD | .48236 | .08460 | .91305 |
| #1 | 9102.9 | 117510. | 9707.6 |
| #2 | 9165.2 | 117650. | 9583.0 |

Sample Name: mb 280-186693/1-a  Acquired: 8/14/2013 22:33:06  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **.00693** | **.00144** | **.00202** | **.00100** | **-.00004** | **.00079** | **.07037** | **.00009** | **.00014** |
| Stddev | .00024 | .00006 | .00364 | .00006 | .00002 | .00000 | .00090 | .00462 | .00007 | .00007 |
| %RSD | 49.349 | .85075 | 253.88 | 3.1026 | 1.8177 | 3.5724 | 113.51 | 6.5707 | 85.061 | 46.612 |
| #1 | .00032 | .00698 | .00401 | .00198 | .00099 | -.00004 | .00016 | .06710 | .00003 | .00010 |
| #2 | .00065 | .00689 | -.00114 | .00207 | .00101 | -.00004 | .00143 | .07364 | .00014 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00154** | **.02780** | **.15369** | **-.00124** | **.00605** | **.00038** | **.00005** | **.38367** | **.00008** |
| Stddev | .00008 | .00021 | .00004 | .00897 | .00456 | .00212 | .00003 | .00007 | .00821 | .00009 |
| %RSD | 61.005 | 13.426 | .14143 | 5.8339 | 368.75 | 35.014 | 6.8681 | 150.52 | 2.1393 | 111.10 |
| #1 | .00007 | .00139 | .02783 | .16003 | .00199 | .00754 | .00040 | .00000 | .37787 | .00014 |
| #2 | .00018 | .00169 | .02777 | .14735 | -.00446 | .00455 | .00036 | .00010 | .38948 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00738** | **-.00039** | W **.05139** | **-.00041** | **.00297** | **.00200** | **.00428** | **.00794** | **.00017** | **.00038** |
| Stddev | .00091 | .00009 | .00079 | .00069 | .00016 | .00342 | .00732 | .00028 | .00001 | .00022 |
| %RSD | 12.398 | 23.569 | 1.5444 | 167.89 | 5.3262 | 171.26 | 171.26 | 3.5232 | 6.9896 | 57.091 |
| #1 | .00802 | -.00046 | .05195 | -.00090 | .00308 | -.00042 | -.00090 | .00774 | .00016 | .00054 |
| #2 | .00673 | -.00033 | .05083 | .00008 | .00285 | .00442 | .00946 | .00814 | .00018 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | | | | | |
| Low Limit | | | -.05000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **-.00020** | **.02084** | **.00071** | **.00357** | **-.00273** |
| Stddev | .00042 | .00105 | .02988 | .00048 | .00001 | .00308 |
| %RSD | 70.844 | 534.57 | 143.34 | 68.459 | .32724 | 112.70 |
| #1 | .00029 | -.00094 | -.00028 | .00036 | .00356 | -.00056 |
| #2 | .00088 | .00054 | .04197 | .00105 | .00358 | -.00491 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9343.4** | **119770.** | **9813.1** |
| Stddev | 13.8 | 4. | 68.1 |
| %RSD | .14810 | .00352 | .69423 |
| #1 | 9333.6 | 119770. | 9861.3 |
| #2 | 9353.2 | 119760. | 9765.0 |

Sample Name: lcs 280-186693/2-a Acquired: 8/14/2013 22:35:22 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05044** | **2.0207** | **1.0255** | **.96964** | **1.9749** | **.05050** | **2.1091** | **50.348** | **.10858** | **.51062** |
| Stddev | .00020 | .0013 | .0008 | .00010 | .0001 | .00017 | .0006 | .046 | .00027 | .00075 |
| %RSD | .38820 | .06489 | .07339 | .00983 | .00415 | .32784 | .02807 | .09087 | .24742 | .14615 |
| #1 | .05031 | 2.0217 | 1.0250 | .96958 | 1.9749 | .05038 | 2.1095 | 50.316 | .10877 | .51009 |
| #2 | .05058 | 2.0198 | 1.0261 | .96971 | 1.9750 | .05062 | 2.1087 | 50.381 | .10839 | .51115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20294** | **.26110** | **1.0294** | **51.217** | **.99758** | **48.997** | **.51225** | **.97592** | **50.999** | **.50113** |
| Stddev | .00002 | .00141 | .0044 | .023 | .00300 | .047 | .00126 | .00079 | .008 | .00017 |
| %RSD | .00940 | .53938 | .42561 | .04463 | .30111 | .09618 | .24511 | .08105 | .01475 | .03400 |
| #1 | .20293 | .26010 | 1.0263 | 51.233 | .99546 | 49.030 | .51136 | .97536 | 50.993 | .50125 |
| #2 | .20295 | .26210 | 1.0325 | 51.201 | .99971 | 48.963 | .51314 | .97648 | 51.004 | .50101 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.190** | **.51120** | **.01545** | **.48983** | **2.0040** | F **.99343** | **2.1259** | **1.9521** | **1.0294** | **.96937** |
| Stddev | .015 | .00040 | .00185 | .00101 | .0008 | .02147 | .0459 | .0022 | .0015 | .00055 |
| %RSD | .14428 | .07739 | 11.989 | .20710 | .03959 | 2.1613 | 2.1613 | .11466 | .15088 | .05706 |
| #1 | 10.201 | .51092 | .01676 | .49055 | 2.0045 | .97825 | 2.0935 | 1.9537 | 1.0305 | .96897 |
| #2 | 10.180 | .51148 | .01414 | .48911 | 2.0034 | 1.0086 | 2.1584 | 1.9506 | 1.0283 | .96976 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 7.0000 | | | | |
| Low Limit | | | | | | 1.0000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0176** | **2.0266** | **2.1327** | **.51969** | **.49740** | **.50517** |
| Stddev | .0039 | .0032 | .0307 | .00111 | .00168 | .00352 |
| %RSD | .38489 | .15602 | 1.4407 | .21408 | .33813 | .69752 |
| #1 | 1.0148 | 2.0289 | 2.1544 | .51890 | .49859 | .50267 |
| #2 | 1.0203 | 2.0244 | 2.1110 | .52047 | .49621 | .50766 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8822.0** | **111440.** | **9651.8** |
| Stddev | 24.9 | 50. | 31.8 |
| %RSD | .28224 | .04460 | .32961 |
| #1 | 8804.4 | 111480. | 9674.3 |
| #2 | 8839.6 | 111410. | 9629.3 |

Sample Name: 280-45339-a-12-a  Acquired: 8/14/2013 22:37:29  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00094** | **50.942** | **.05875** | **.02979** | **1.2849** | **.00809** | **.00444** | **20.660** | **.01395** | **.21290** |
| Stddev | .00042 | .373 | .00370 | .00044 | .0049 | .00001 | .00062 | .124 | .00002 | .00031 |
| %RSD | 44.640 | .73188 | 6.3034 | 1.4796 | .38204 | .12600 | 13.985 | .59811 | .15818 | .14495 |
| #1 | -.00064 | 50.678 | .05613 | .03010 | 1.2814 | .00808 | .00400 | 20.572 | .01393 | .21311 |
| #2 | -.00123 | 51.206 | .06136 | .02947 | 1.2883 | .00809 | .00488 | 20.747 | .01396 | .21268 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14137** | **7.7037** | **171.88** | **5.6680** | **.06615** | **3.5440** | **5.0124** | **.01375** | **.76592** | **.40570** |
| Stddev | .00006 | .0005 | .70 | .0430 | .00142 | .0001 | .0456 | .00006 | .00964 | .00037 |
| %RSD | .04591 | .00690 | .40443 | .75806 | 2.1489 | .00411 | .91038 | .40189 | 1.2580 | .09064 |
| #1 | .14142 | 7.7040 | 171.39 | 5.6377 | .06715 | 3.5439 | 5.0447 | .01371 | .77273 | .40544 |
| #2 | .14133 | 7.7033 | 172.37 | 5.6984 | .06514 | 3.5441 | 4.9801 | .01379 | .75911 | .40596 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3239** | **1.0433** | **13.559** | **.00337** | **.00533** | **3.4480** | **7.3786** | **.04332** | **.49901** | **.03176** |
| Stddev | .0034 | .0013 | .002 | .00188 | .00191 | .0074 | .0158 | .00008 | .00190 | .00058 |
| %RSD | .14424 | .12676 | .01463 | 55.714 | 35.869 | .21381 | .21381 | .17773 | .38072 | 1.8394 |
| #1 | 2.3262 | 1.0442 | 13.561 | .00204 | .00668 | 3.4427 | 7.3675 | .04337 | .49767 | .03135 |
| #2 | 2.3215 | 1.0424 | 13.558 | .00470 | .00398 | 3.4532 | 7.3898 | .04326 | .50035 | .03217 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5332** | **-.00309** | F **-.29972** | **.20193** | **2.3034** | **.05808** |
| Stddev | .0007 | .00035 | .00207 | .00054 | .0001 | .00091 |
| %RSD | .04443 | 11.184 | .69187 | .26528 | .00218 | 1.5584 |
| #1 | 1.5336 | -.00285 | -.29825 | .20155 | 2.3034 | .05872 |
| #2 | 1.5327 | -.00333 | -.30118 | .20231 | 2.3034 | .05744 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9958.6** | **124020.** | **10721.** |
| Stddev | 7.5 | 74. | 7. |
| %RSD | .07554 | .05987 | .06154 |
| #1 | 9963.9 | 124070. | 10725. |
| #2 | 9953.2 | 123970. | 10716. |

Sample Name: 280-45339-a-12-aSD@5 Acquired: 8/14/2013 22:39:47 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **11.099** | **.01634** | **.00840** | **.27625** | **.00171** | **-.00133** | **4.4988** | **.00299** | **.04653** |
| Stddev | .00010 | .042 | .00162 | .00012 | .00020 | .00003 | .00122 | .0055 | .00019 | .00029 |
| %RSD | 345.96 | .38084 | 9.9268 | 1.4452 | .07210 | 1.5502 | 91.410 | .12110 | 6.2672 | .62219 |
| #1 | -.00004 | 11.128 | .01749 | .00849 | .27639 | .00169 | -.00219 | 4.5026 | .00312 | .04632 |
| #2 | .00010 | 11.069 | .01519 | .00832 | .27611 | .00173 | -.00047 | 4.4949 | .00285 | .04673 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03042** | **1.6261** | **38.845** | **1.3136** | **.01352** | **.78406** | **1.0995** | **.00285** | **.28556** | **.08896** |
| Stddev | .00009 | .0002 | .071 | .0089 | .00544 | .00079 | .0004 | .00005 | .00685 | .00038 |
| %RSD | .28701 | .01234 | .18257 | .67852 | 40.236 | .10016 | .03539 | 1.6018 | 2.3998 | .42732 |
| #1 | .03035 | 1.6259 | 38.795 | 1.3199 | .00967 | .78350 | 1.0992 | .00281 | .28071 | .08870 |
| #2 | .03048 | 1.6262 | 38.895 | 1.3073 | .01736 | .78461 | 1.0998 | .00288 | .29040 | .08923 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49450** | **.23097** | **2.8819** | **.00083** | **.00475** | **.89259** | **1.9102** | **.00965** | **.10763** | **.00576** |
| Stddev | .00246 | .00152 | .0133 | .00030 | .00120 | .04254 | .0910 | .00015 | .00017 | .00084 |
| %RSD | .49831 | .65862 | .46096 | 35.837 | 25.200 | 4.7660 | 4.7660 | 1.5118 | .15625 | 14.504 |
| #1 | .49276 | .22989 | 2.8725 | .00104 | .00390 | .92267 | 1.9745 | .00975 | .10775 | .00635 |
| #2 | .49624 | .23205 | 2.8912 | .00062 | .00559 | .86251 | 1.8458 | .00954 | .10751 | .00517 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32846** | **-.00240** | **-.04969** | **.04325** | **.49625** | **.00964** |
| Stddev | .00113 | .00073 | .00240 | .00032 | .00048 | .00107 |
| %RSD | .34417 | 30.523 | 4.8369 | .73011 | .09723 | 11.063 |
| #1 | .32925 | -.00292 | -.05139 | .04347 | .49659 | .01039 |
| #2 | .32766 | -.00188 | -.04799 | .04302 | .49591 | .00888 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9408.0** | **119140.** | **9935.8** |
| Stddev | 17.8 | 377. | 8.5 |
| %RSD | .18968 | .31654 | .08583 |
| #1 | 9420.6 | 118870. | 9941.8 |
| #2 | 9395.4 | 119410. | 9929.7 |

Sample Name: 280-45339-a-12-b ms  Acquired: 8/14/2013 22:42:01  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04307** | **88.675** | **.96005** | **.86842** | **3.1125** | **.05432** | F **1.8287** | **66.851** | **.11236** | **.65717** |
| Stddev | .00028 | .557 | .00191 | .00033 | .0110 | .00040 | .0051 | .343 | .00040 | .00148 |
| %RSD | .63856 | .62852 | .19891 | .03809 | .35169 | .73097 | .27961 | .51336 | .35627 | .22488 |
| #1 | .04327 | 88.281 | .95870 | .86866 | 3.1048 | .05404 | 1.8323 | 66.608 | .11264 | .65822 |
| #2 | .04288 | 89.069 | .96140 | .86819 | 3.1203 | .05460 | 1.8251 | 67.094 | .11208 | .65613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37942** | **3.8570** | **216.29** | **56.317** | **.97428** | **48.575** | **5.3303** | **.84219** | **46.741** | **.89133** |
| Stddev | .00039 | .0105 | .54 | .152 | .00333 | .073 | .0270 | .00068 | .335 | .00090 |
| %RSD | .10297 | .27188 | .25005 | .26972 | .34215 | .14953 | .50684 | .08077 | .71614 | .10053 |
| #1 | .37970 | 3.8644 | 215.90 | 56.209 | .97192 | 48.627 | 5.3112 | .84171 | 46.504 | .89196 |
| #2 | .37914 | 3.8496 | 216.67 | 56.424 | .97663 | 48.524 | 5.3494 | .84267 | 46.978 | .89070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.338** | **1.3048** | **13.273** | **.28351** | **1.7000** | **4.8650** | **10.411** | **1.7283** | **1.5553** | **.85465** |
| Stddev | .006 | .0018 | .014 | .00333 | .0036 | .0219 | .047 | .0019 | .0058 | .00531 |
| %RSD | .05641 | .14077 | .10775 | 1.1758 | .20942 | .45049 | .45049 | .10938 | .37156 | .62149 |
| #1 | 11.333 | 1.3061 | 13.283 | .28586 | 1.7025 | 4.8495 | 10.378 | 1.7296 | 1.5513 | .85840 |
| #2 | 11.342 | 1.3035 | 13.263 | .28115 | 1.6975 | 4.8805 | 10.444 | 1.7269 | 1.5594 | .85089 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2337** | **1.6675** | **1.5818** | **.73724** | **3.1963** | **.50902** |
| Stddev | .0083 | .0073 | .0187 | .00074 | .0003 | .00120 |
| %RSD | .25755 | .43595 | 1.1846 | .10105 | .00968 | .23556 |
| #1 | 3.2396 | 1.6727 | 1.5686 | .73777 | 3.1961 | .50818 |
| #2 | 3.2278 | 1.6624 | 1.5951 | .73671 | 3.1965 | .50987 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9618.1** | **119060.** | **10553.** |
| Stddev | 4.4 | 314. | 78. |
| %RSD | .04530 | .26337 | .73597 |
| #1 | 9615.1 | 118840. | 10498. |
| #2 | 9621.2 | 119280. | 10608. |

Sample Name: 280-45339-a-12-c msd  Acquired: 8/14/2013 22:44:18  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04469** | **84.327** | **.97256** | **.89179** | **3.3184** | **.05374** | F **1.8850** | **64.007** | **.10639** | **.67183** |
| Stddev | .00139 | .206 | .00019 | .00095 | .0045 | .00014 | .0021 | .143 | .00005 | .00104 |
| %RSD | 3.1053 | .24420 | .01995 | .10617 | .13640 | .26403 | .11171 | .22275 | .05040 | .15551 |
| #1 | .04371 | 84.181 | .97269 | .89246 | 3.3152 | .05364 | 1.8835 | 63.906 | .10643 | .67257 |
| #2 | .04567 | 84.472 | .97242 | .89112 | 3.3216 | .05384 | 1.8865 | 64.107 | .10636 | .67109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36817** | **3.6005** | **198.03** | **57.086** | **.99272** | **49.528** | **4.7843** | **.86759** | **47.047** | **.88328** |
| Stddev | .00103 | .0155 | .54 | .252 | .00084 | .199 | .0500 | .00164 | .114 | .00073 |
| %RSD | .28031 | .43165 | .27059 | .44210 | .08412 | .40157 | 1.0457 | .18876 | .24205 | .08299 |
| #1 | .36890 | 3.5895 | 197.65 | 56.907 | .99213 | 49.387 | 4.7489 | .86874 | 46.966 | .88380 |
| #2 | .36744 | 3.6115 | 198.41 | 57.264 | .99332 | 49.668 | 4.8197 | .86643 | 47.127 | .88277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.127** | **1.3452** | **11.875** | **.30104** | **1.7492** | **5.3798** | **11.513** | **1.9171** | **1.4348** | **.88123** |
| Stddev | .005 | .0010 | .017 | .00168 | .0013 | .0713 | .153 | .0048 | .0034 | .00216 |
| %RSD | .04219 | .07383 | .14569 | .55787 | .07653 | 1.3250 | 1.3250 | .25268 | .23510 | .24552 |
| #1 | 11.130 | 1.3445 | 11.862 | .29985 | 1.7502 | 5.4302 | 11.621 | 1.9206 | 1.4324 | .87970 |
| #2 | 11.124 | 1.3459 | 11.887 | .30222 | 1.7483 | 5.3294 | 11.405 | 1.9137 | 1.4371 | .88276 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1251** | **1.7235** | **1.6413** | **.72637** | **2.0079** | **.50527** |
| Stddev | .0067 | .0013 | .0313 | .00343 | .0058 | .00155 |
| %RSD | .21523 | .07662 | 1.9079 | .47178 | .28904 | .30622 |
| #1 | 3.1299 | 1.7226 | 1.6192 | .72394 | 2.0038 | .50418 |
| #2 | 3.1203 | 1.7244 | 1.6635 | .72879 | 2.0120 | .50636 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9511.1** | **117920.** | **10304.** |
| Stddev | 26.2 | 757. | 83. |
| %RSD | .27504 | .64204 | .81000 |
| #1 | 9492.6 | 118450. | 10363. |
| #2 | 9529.6 | 117380. | 10245. |

Sample Name: 280-45339-a-1-a  Acquired: 8/14/2013 22:46:29  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00267** | **214.75** | **.11765** | **.01276** | **.59124** | **.01213** | **.00048** | **25.852** | **.00323** | **.06137** |
| Stddev | .00018 | .31 | .00021 | .00005 | .00020 | .00006 | .00038 | .016 | .00006 | .00001 |
| %RSD | 6.7516 | .14657 | .17726 | .38163 | .03391 | .46311 | 79.813 | .06220 | 1.7097 | .02207 |
| #1 | -.00254 | 214.52 | .11750 | .01279 | .59110 | .01209 | .00075 | 25.841 | .00319 | .06136 |
| #2 | -.00280 | 214.97 | .11779 | .01272 | .59139 | .01217 | .00021 | 25.864 | .00327 | .06138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26625** | **.07047** | **211.94** | **9.1506** | **.10699** | **7.0262** | **3.2852** | **.00576** | **.42236** | **.18583** |
| Stddev | .00009 | .00053 | .09 | .0549 | .00122 | .0230 | .0104 | .00018 | .00748 | .00013 |
| %RSD | .03417 | .74669 | .04191 | .60005 | 1.1381 | .32735 | .31603 | 3.0998 | 1.7712 | .07046 |
| #1 | .26619 | .07010 | 211.87 | 9.1118 | .10613 | 7.0424 | 3.2925 | .00564 | .42765 | .18574 |
| #2 | .26631 | .07085 | 212.00 | 9.1894 | .10785 | 7.0099 | 3.2779 | .00589 | .41707 | .18592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.90948** | **.16959** | **.36638** | **-.00151** | **.00328** | **1.5867** | **3.3956** | **.01529** | **.05244** | **.07931** |
| Stddev | .00171 | .00086 | .00087 | .00260 | .00286 | .0056 | .0121 | .00013 | .00007 | .00080 |
| %RSD | .18772 | .50719 | .23825 | 172.47 | 87.310 | .35616 | .35616 | .87279 | .12504 | 1.0115 |
| #1 | .90828 | .16899 | .36576 | .00033 | .00531 | 1.5907 | 3.4041 | .01519 | .05239 | .07988 |
| #2 | .91069 | .17020 | .36700 | -.00334 | .00126 | 1.5827 | 3.3870 | .01538 | .05249 | .07874 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50923** | **-.00266** | F **-.43661** | **.37700** | **.40859** | **.12795** |
| Stddev | .00152 | .00133 | .00949 | .00025 | .00105 | .00058 |
| %RSD | .29840 | 49.977 | 2.1733 | .06719 | .25774 | .45193 |
| #1 | .51031 | -.00172 | -.44332 | .37682 | .40785 | .12836 |
| #2 | .50816 | -.00360 | -.42990 | .37718 | .40934 | .12754 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11829.** | **141950.** | **12692.** |
| Stddev | 13. | 255. | 26. |
| %RSD | .11239 | .17946 | .20120 |
| #1 | 11838. | 141770. | 12710. |
| #2 | 11819. | 142130. | 12674. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 22:48:51 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **50.515** | **.00578** | **.00466** | **.00066** | **-.00006** | **1.0124** | **-.00255** | **-.00011** | **.00027** | **-.00022** | **.00256** | **48.693** |
| Stddev | .00089 | .333 | .00229 | .00032 | .00005 | .00001 | .0005 | .00013 | .00002 | .00004 | .00000 | .00022 | .293 |
| %RSD | 142.22 | .65968 | 39.560 | 6.9151 | 7.3812 | 22.654 | .04709 | 5.1815 | 15.685 | 16.475 | 1.0812 | 8.5221 | .60149 |
| #1 | .00000 | 50.279 | .00416 | .00443 | .00070 | -.00007 | 1.0121 | -.00264 | -.00012 | .00024 | -.00021 | .00271 | 48.486 |
| #2 | .00126 | 50.750 | .00740 | .00489 | .00063 | -.00005 | 1.0127 | -.00245 | -.00010 | .00030 | -.00022 | .00241 | 48.900 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18980** | **-.00194** | **-.01246** | **.00017** | **.00007** | **248.98** | **.00057** | **.00264** | **.00150** | **5.0818** | **.00067** | **.00173** | **-.00227** |
| Stddev | .01188 | .00278 | .00184 | .00012 | .00014 | 2.69 | .00005 | .00062 | .00067 | .0012 | .00236 | .00332 | .00437 |
| %RSD | 6.2606 | 143.58 | 14.798 | 71.568 | 189.89 | 1.0804 | 9.0086 | 23.421 | 44.613 | .02341 | 353.14 | 191.69 | 192.82 |
| #1 | .19821 | .00003 | -.01376 | .00025 | -.00002 | 247.08 | .00053 | .00221 | .00103 | 5.0809 | -.00100 | .00408 | .00082 |
| #2 | .18140 | -.00390 | -.01116 | .00008 | .00017 | 250.89 | .00060 | .00308 | .00198 | 5.0826 | .00233 | -.00062 | -.00535 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00485** | **.00081** | **.00044** | **4.9304** | **-.00034** | **-.00060** | **10.091** | **.00169** | **.00098** | **.02468** |
| Stddev | .00935 | .00074 | .00007 | .0368 | .00006 | .00134 | .046 | .00038 | .00001 | .00122 |
| %RSD | 192.82 | 90.666 | 14.738 | .74691 | 17.414 | 221.92 | .45783 | 22.237 | .77471 | 4.9456 |
| #1 | .00176 | .00134 | .00049 | 4.9043 | -.00039 | .00034 | 10.124 | .00196 | .00099 | .02382 |
| #2 | -.01146 | .00029 | .00040 | 4.9564 | -.00030 | -.00155 | 10.058 | .00143 | .00098 | .02554 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8839.4** | **109490.** | **9410.2** |
| Stddev | 34.4 | 176. | 72.3 |
| %RSD | .38885 | .16086 | .76828 |
| #1 | 8815.1 | 109620. | 9461.3 |
| #2 | 8863.7 | 109370. | 9359.1 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 22:51:12 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50127** | F **.59927** | **.98702** | **.50447** | **.48554** | **.50061** | **.00025** | **5.0229** | **.50869** | **.51336** | **.50000** | **.51062** | **2.5366** |
| Stddev | .00090 | .00008 | .00133 | .00011 | .00154 | .00060 | .00226 | .0128 | .00092 | .00071 | .00040 | .00074 | .0066 |
| %RSD | .17934 | .01316 | .13447 | .02186 | .31655 | .11937 | 897.40 | .25468 | .18183 | .13809 | .08095 | .14484 | .26150 |
| #1 | .50191 | .59922 | .98796 | .50455 | .48446 | .50019 | .00185 | 5.0138 | .50804 | .51286 | .49971 | .51010 | 2.5319 |
| #2 | .50063 | .59933 | .98608 | .50440 | .48663 | .50103 | -.00134 | 5.0319 | .50935 | .51386 | .50028 | .51114 | 2.5412 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | | |
| Range | | 10.490% | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.347** | **.99095** | **19.598** | **.50834** | **.49510** | **5.3475** | **.50426** | **.98193** | **1.0244** | **.01002** | **1.0317** | **1.0039** | **4.9680** |
| Stddev | .210 | .00510 | .032 | .00086 | .00006 | .0052 | .00044 | .00128 | .0001 | .00214 | .0029 | .0050 | .0161 |
| %RSD | .41617 | .51477 | .16422 | .16958 | .01235 | .09794 | .08752 | .13059 | .01185 | 21.324 | .27782 | .49574 | .32455 |
| #1 | 50.198 | .98734 | 19.621 | .50895 | .49506 | 5.3512 | .50395 | .98284 | 1.0245 | .01153 | 1.0337 | 1.0074 | 4.9566 |
| #2 | 50.495 | .99456 | 19.576 | .50773 | .49515 | 5.3438 | .50457 | .98102 | 1.0243 | .00851 | 1.0297 | 1.0003 | 4.9794 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.631** | **1.0009** | **.50548** | **-.00567** | **.51081** | **1.0417** | **.03531** | **.50582** | **.49675** | **.51300** |
| Stddev | .035 | .0041 | .00158 | .00151 | .00019 | .0066 | .01452 | .00146 | .00335 | .00124 |
| %RSD | .32455 | .40837 | .31301 | 26.683 | .03697 | .62861 | 41.104 | .28937 | .67500 | .24075 |
| #1 | 10.607 | 1.0038 | .50437 | -.00673 | .51095 | 1.0463 | .02505 | .50685 | .49912 | .51212 |
| #2 | 10.656 | .99803 | .50660 | -.00460 | .51068 | 1.0371 | .04558 | .50478 | .49438 | .51387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9059.3** | **113700.** | **9528.9** |
| Stddev | 26.2 | 215. | 57.3 |
| %RSD | .28924 | .18940 | .60101 |
| #1 | 9040.7 | 113550. | 9569.4 |
| #2 | 9077.8 | 113850. | 9488.4 |

Sample Name: CCB Acquired: 8/14/2013 22:53:19 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.00022** | **.00353** | **.00241** | **-.00012** | **.00008** | **.00214** | **.00035** | **-.00010** | **.00024** | **-.00012** |
| Stddev | .00002 | .00036 | .00098 | .00013 | .00008 | .00006 | .00041 | .00074 | .00000 | .00008 | .00002 |
| %RSD | 2.9335 | 162.69 | 27.739 | 5.4230 | 71.498 | 74.205 | 19.081 | 210.95 | 4.3543 | 35.455 | 14.085 |
| #1 | .00054 | -.00003 | .00284 | .00232 | -.00006 | .00013 | .00243 | .00088 | -.00010 | .00030 | -.00013 |
| #2 | .00052 | .00047 | .00422 | .00250 | -.00017 | .00004 | .00186 | -.00017 | -.00011 | .00018 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00047** | **.00209** | **.16433** | **-.00043** | **.00362** | **.00010** | **.00070** | W **.14661** | **.00009** | **.00098** | **-.00016** |
| Stddev | .00013 | .00202 | .00314 | .00409 | .00200 | .00000 | .00030 | .00568 | .00011 | .00068 | .00048 |
| %RSD | 26.967 | 97.010 | 1.9120 | 946.35 | 55.252 | 3.2751 | 42.956 | 3.8710 | 113.52 | 69.790 | 307.61 |
| #1 | -.00038 | .00352 | .16656 | .00246 | .00221 | .00010 | .00049 | .15062 | .00002 | .00146 | .00018 |
| #2 | -.00056 | .00066 | .16211 | -.00333 | .00504 | .00011 | .00091 | .14260 | .00017 | .00049 | -.00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .09160 | | | |
| Low Limit | | | | | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01178** | W **.00463** | **.00130** | **-.00706** | **-.01510** | **.00049** | **-.00004** | **-.00089** | **.00014** | **-.00033** | **.03451** |
| Stddev | .00037 | .00060 | .00113 | .00728 | .01558 | .00073 | .00004 | .00003 | .00030 | .00023 | .00379 |
| %RSD | 3.1686 | 13.058 | 86.797 | 103.17 | 103.17 | 148.69 | 99.966 | 2.8571 | 211.41 | 71.270 | 10.982 |
| #1 | .01204 | .00420 | .00210 | -.00191 | -.00409 | -.00003 | -.00007 | -.00087 | .00035 | -.00049 | .03719 |
| #2 | .01152 | .00505 | .00050 | -.01221 | -.02612 | .00101 | -.00001 | -.00091 | -.00007 | -.00016 | .03183 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00054** | **.00141** | W **-.00251** |
| Stddev | .00065 | .00007 | .00087 |
| %RSD | 119.66 | 5.1066 | 34.585 |
| #1 | .00008 | .00136 | -.00190 |
| #2 | .00100 | .00146 | -.00313 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9243.4** | **118600.** | **9628.2** |
| Stddev | 29.3 | 262. | 78.2 |
| %RSD | .31753 | .22061 | .81267 |
| #1 | 9222.7 | 118780. | 9572.9 |
| #2 | 9264.2 | 118410. | 9683.6 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 22:55:35 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00989** | **.10800** | **.01728** | **.09620** | **.00974** | **.00101** | **.11106** | **.21426** | **.00523** | **.01068** | **.01010** | **.01499** | **.10241** |
| Stddev | .00019 | .00042 | .00145 | .00023 | .00038 | .00003 | .00146 | .00316 | .00009 | .00020 | .00009 | .00016 | .00007 |
| %RSD | 1.8998 | .38804 | 8.3676 | .23404 | 3.8696 | 3.2758 | 1.3165 | 1.4733 | 1.7283 | 1.8521 | .92565 | 1.0618 | .06820 |
| #1 | .00976 | .10830 | .01831 | .09636 | .00947 | .00103 | .11210 | .21203 | .00530 | .01081 | .01016 | .01510 | .10236 |
| #2 | .01003 | .10770 | .01626 | .09604 | .01000 | .00099 | .11003 | .21649 | .00517 | .01054 | .01003 | .01488 | .10246 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1875** | **.01117** | **.19730** | **.01048** | **.01950** | **1.2126** | **.04132** | **2.7872** | **.00973** | **.00863** | **.00980** | **.01449** | **.47495** |
| Stddev | .0215 | .00217 | .00017 | .00009 | .00011 | .0048 | .00004 | .0213 | .00068 | .00040 | .00153 | .00187 | .00000 |
| %RSD | .67371 | 19.432 | .08799 | .82388 | .56831 | .39450 | .09724 | .76461 | 6.9752 | 4.6760 | 15.602 | 12.938 | .00096 |
| #1 | 3.1723 | .01270 | .19743 | .01054 | .01958 | 1.2159 | .04135 | 2.8023 | .00925 | .00834 | .00872 | .01582 | .47494 |
| #2 | 3.2027 | .00963 | .19718 | .01042 | .01942 | 1.2092 | .04129 | 2.7721 | .01021 | .00892 | .01088 | .01316 | .47495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0164** | **.10045** | **.01024** | **.01479** | **.01027** | **.01363** | F **.08995** | **.01047** | **.02085** | **.01405** |
| Stddev | .0000 | .00090 | .00010 | .00021 | .00025 | .00055 | .00091 | .00018 | .00046 | .00061 |
| %RSD | .00096 | .89920 | .93986 | 1.4391 | 2.4679 | 4.0326 | 1.0169 | 1.6820 | 2.2216 | 4.3135 |
| #1 | 1.0164 | .10109 | .01017 | .01494 | .01009 | .01325 | .08930 | .01035 | .02118 | .01447 |
| #2 | 1.0164 | .09981 | .01031 | .01464 | .01045 | .01402 | .09059 | .01059 | .02052 | .01362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9228.4** | **118180.** | **9719.3** |
| Stddev | .8 | 385. | 28.2 |
| %RSD | .00818 | .32555 | .29012 |
| #1 | 9227.9 | 117910. | 9739.3 |
| #2 | 9229.0 | 118450. | 9699.4 |

Sample Name: 280-45339-a-2-a  Acquired: 8/14/2013 22:57:50  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00170** | **83.683** | **.07095** | **.01726** | **1.5741** | **.00622** | **.04163** | **13.712** | **.14984** | **.10747** |
| Stddev | .00039 | .224 | .00087 | .00029 | .0033 | .00001 | .00170 | .037 | .00042 | .00010 |
| %RSD | 22.787 | .26788 | 1.2261 | 1.7043 | .20989 | .16666 | 4.0871 | .26885 | .28323 | .09241 |
| #1 | -.00198 | 83.842 | .07034 | .01747 | 1.5764 | .00621 | .04283 | 13.738 | .15014 | .10740 |
| #2 | -.00143 | 83.525 | .07157 | .01706 | 1.5717 | .00622 | .04042 | 13.686 | .14954 | .10754 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36910** | F **88.535** | **150.34** | **7.3990** | **.05772** | **6.5480** | **7.8936** | **.00820** | **.49770** | **.14030** |
| Stddev | .00108 | .664 | .08 | .0226 | .00137 | .0062 | .0075 | .00003 | .00735 | .00004 |
| %RSD | .29361 | .75011 | .05380 | .30594 | 2.3673 | .09477 | .09441 | .34725 | 1.4772 | .03180 |
| #1 | .36987 | 89.004 | 150.40 | 7.4150 | .05869 | 6.5523 | 7.8989 | .00822 | .49250 | .14033 |
| #2 | .36834 | 88.065 | 150.28 | 7.3830 | .05676 | 6.5436 | 7.8884 | .00818 | .50290 | .14027 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 50.000 | | | | | | | | |
| Low Limit | | -.02000 | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.0468** | **.71991** | **5.3697** | **.00089** | **.00418** | **3.0986** | **6.6310** | **.03621** | **.05760** | **.05043** |
| Stddev | .0021 | .00166 | .0086 | .00016 | .00096 | .0054 | .0115 | .00037 | .00022 | .00053 |
| %RSD | .10211 | .23068 | .16055 | 17.888 | 23.037 | .17351 | .17351 | 1.0090 | .37841 | 1.0423 |
| #1 | 2.0454 | .72109 | 5.3758 | .00078 | .00350 | 3.0948 | 6.6229 | .03647 | .05776 | .05005 |
| #2 | 2.0483 | .71874 | 5.3636 | .00100 | .00486 | 3.1024 | 6.6392 | .03595 | .05745 | .05080 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3722** | **-.00429** | F **-.28124** | **.39875** | **4.8956** | **.09781** |
| Stddev | .0049 | .00014 | .00142 | .00172 | .0008 | .00149 |
| %RSD | .35595 | 3.2748 | .50365 | .43086 | .01533 | 1.5235 |
| #1 | 1.3757 | -.00419 | -.28024 | .39996 | 4.8961 | .09676 |
| #2 | 1.3688 | -.00439 | -.28224 | .39753 | 4.8951 | .09886 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9723.6** | **121850.** | **10492.** |
| Stddev | 17.4 | 281. | 47. |
| %RSD | .17925 | .23095 | .45252 |
| #1 | 9735.9 | 122050. | 10459. |
| #2 | 9711.2 | 121650. | 10526. |

Sample Name: 280-45339-a-3-a  Acquired: 8/14/2013 23:00:14  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00212** | **111.15** | **.04145** | **.01368** | **.64833** | **.00335** | **-.00115** | **8.1804** | **.00056** | **.07159** |
| Stddev | .00033 | .42 | .00076 | .00014 | .00401 | .00003 | .00233 | .0362 | .00017 | .00040 |
| %RSD | 15.698 | .37958 | 1.8262 | 1.0323 | .61881 | .75175 | 203.65 | .44202 | 29.306 | .55910 |
| #1 | -.00188 | 110.86 | .04091 | .01378 | .64549 | .00333 | .00050 | 8.1548 | .00045 | .07131 |
| #2 | -.00235 | 111.45 | .04198 | .01358 | .65117 | .00337 | -.00280 | 8.2059 | .00068 | .07188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17012** | **.06431** | **94.960** | **7.0286** | **.05677** | **5.5383** | **2.3238** | **.00498** | **.36278** | **.09464** |
| Stddev | .00000 | .00007 | .358 | .0397 | .00011 | .0066 | .0179 | .00005 | .00961 | .00019 |
| %RSD | .00090 | .11301 | .37674 | .56421 | .20025 | .11888 | .76947 | .91496 | 2.6477 | .19600 |
| #1 | .17012 | .06426 | 94.707 | 7.0006 | .05668 | 5.5336 | 2.3112 | .00495 | .36957 | .09451 |
| #2 | .17013 | .06436 | 95.213 | 7.0567 | .05685 | 5.5430 | 2.3365 | .00501 | .35599 | .09477 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3619** | **.11277** | **.28520** | **-.00082** | **.00197** | **1.4223** | **3.0438** | **.00763** | **.04112** | **.03914** |
| Stddev | .0013 | .00110 | .00156 | .00261 | .00485 | .0252 | .0539 | .00038 | .00018 | .00069 |
| %RSD | .09692 | .97422 | .54853 | 319.33 | 245.70 | 1.7719 | 1.7719 | 5.0292 | .43705 | 1.7504 |
| #1 | 1.3609 | .11200 | .28409 | -.00267 | .00540 | 1.4045 | 3.0057 | .00736 | .04099 | .03962 |
| #2 | 1.3628 | .11355 | .28630 | .00103 | -.00146 | 1.4402 | 3.0819 | .00790 | .04125 | .03865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86921** | **-.00290** | F **-.18666** | **.21986** | **.15577** | **.10855** |
| Stddev | .00261 | .00022 | .02014 | .00068 | .00026 | .00055 |
| %RSD | .30082 | 7.4399 | 10.788 | .30975 | .16673 | .50442 |
| #1 | .86736 | -.00305 | -.20090 | .21937 | .15559 | .10894 |
| #2 | .87106 | -.00274 | -.17242 | .22034 | .15596 | .10816 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9608.3** | **117620.** | **10223.** |
| Stddev | 7.9 | 297. | 31. |
| %RSD | .08178 | .25210 | .29935 |
| #1 | 9602.7 | 117830. | 10244. |
| #2 | 9613.8 | 117410. | 10201. |

Sample Name: 280-45339-a-4-a  Acquired: 8/14/2013 23:02:34  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00284** | **132.31** | **.08801** | **.01530** | **.85647** | **.00655** | **.00063** | **17.549** | **.05017** | **.10621** |
| Stddev | .00029 | .64 | .00257 | .00055 | .00484 | .00005 | .00084 | .093 | .00035 | .00001 |
| %RSD | 10.099 | .48548 | 2.9191 | 3.5642 | .56512 | .69168 | 133.66 | .52986 | .70014 | .01081 |
| #1 | -.00264 | 131.85 | .08982 | .01569 | .85305 | .00652 | .00123 | 17.483 | .05042 | .10620 |
| #2 | -.00304 | 132.76 | .08619 | .01492 | .85990 | .00658 | .00003 | 17.615 | .04993 | .10622 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20657** | **.23294** | **156.88** | **7.7141** | **.07032** | **5.1176** | **7.3592** | **.00630** | **.34311** | **.14701** |
| Stddev | .00075 | .00030 | 1.60 | .0526 | .00166 | .0190 | .1212 | .00011 | .00523 | .00085 |
| %RSD | .36302 | .12912 | 1.0225 | .68144 | 2.3630 | .37088 | 1.6474 | 1.6723 | 1.5232 | .57708 |
| #1 | .20710 | .23273 | 155.75 | 7.6769 | .06914 | 5.1042 | 7.2735 | .00622 | .34680 | .14761 |
| #2 | .20604 | .23315 | 158.02 | 7.7512 | .07149 | 5.1311 | 7.4450 | .00637 | .33941 | .14641 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2759** | **.63523** | **1.1091** | **.00285** | **.00316** | **1.9933** | **4.2656** | **.01372** | **.05443** | **.05603** |
| Stddev | .0009 | .00260 | .0009 | .00292 | .00080 | .0042 | .0090 | .00068 | .00035 | .00030 |
| %RSD | .07106 | .40861 | .08514 | 102.51 | 25.459 | .21142 | .21142 | 4.9593 | .64156 | .53820 |
| #1 | 1.2765 | .63706 | 1.1084 | .00492 | .00259 | 1.9903 | 4.2593 | .01324 | .05419 | .05624 |
| #2 | 1.2753 | .63339 | 1.1097 | .00078 | .00372 | 1.9963 | 4.2720 | .01420 | .05468 | .05581 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72210** | **-.00291** | F **-.30151** | **.32714** | **2.4925** | **.11929** |
| Stddev | .00132 | .00030 | .01514 | .00086 | .0048 | .00071 |
| %RSD | .18286 | 10.204 | 5.0209 | .26255 | .19099 | .59543 |
| #1 | .72116 | -.00313 | -.29081 | .32654 | 2.4891 | .11980 |
| #2 | .72303 | -.00270 | -.31222 | .32775 | 2.4958 | .11879 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10275.** | **125710.** | **10978.** |
| Stddev | 33. | 484. | 70. |
| %RSD | .31921 | .38506 | .63397 |
| #1 | 10252. | 126050. | 11028. |
| #2 | 10299. | 125370. | 10929. |

Sample Name: 280-45339-a-5-a  Acquired: 8/14/2013 23:04:52  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00168** | **66.651** | **.05568** | **.01519** | **.99224** | **.00559** | **.00504** | **9.3121** | **.03778** | **.12243** |
| Stddev | .00029 | .079 | .00018 | .00004 | .00095 | .00006 | .00264 | .0024 | .00008 | .00021 |
| %RSD | 16.994 | .11809 | .33201 | .25492 | .09571 | 1.1235 | 52.377 | .02552 | .20578 | .17263 |
| #1 | -.00188 | 66.595 | .05581 | .01516 | .99291 | .00564 | .00317 | 9.3104 | .03784 | .12258 |
| #2 | -.00148 | 66.707 | .05555 | .01521 | .99156 | .00555 | .00691 | 9.3138 | .03773 | .12229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53613** | **8.4511** | **140.47** | **6.0509** | **.04423** | **4.1409** | W **11.912** | **.00600** | **.27684** | **.11049** |
| Stddev | .00044 | .0046 | .14 | .0055 | .00039 | .0063 | .105 | .00022 | .00570 | .00006 |
| %RSD | .08227 | .05484 | .10135 | .09080 | .87500 | .15134 | .88037 | 3.7364 | 2.0601 | .05581 |
| #1 | .53644 | 8.4478 | 140.37 | 6.0548 | .04451 | 4.1453 | 11.987 | .00616 | .27280 | .11053 |
| #2 | .53582 | 8.4544 | 140.57 | 6.0470 | .04396 | 4.1365 | 11.838 | .00584 | .28087 | .11044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3889** | **1.6566** | **.92934** | **.00343** | **.00300** | **2.2515** | **4.8182** | **.29406** | **.04748** | **.04107** |
| Stddev | .0074 | .0022 | .00340 | .00226 | .00143 | .0063 | .0134 | .00052 | .00030 | .00054 |
| %RSD | .31032 | .13135 | .36556 | 65.937 | 47.645 | .27739 | .27739 | .17637 | .63445 | 1.3034 |
| #1 | 2.3942 | 1.6551 | .93174 | .00503 | .00199 | 2.2471 | 4.8088 | .29443 | .04727 | .04145 |
| #2 | 2.3837 | 1.6582 | .92694 | .00183 | .00402 | 2.2559 | 4.8277 | .29370 | .04769 | .04069 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2125** | **-.00239** | F **-.33679** | **.33252** | **3.8761** | **.02660** |
| Stddev | .0014 | .00060 | .00402 | .00108 | .0188 | .00088 |
| %RSD | .11878 | 25.027 | 1.1930 | .32572 | .48386 | 3.3055 |
| #1 | 1.2135 | -.00197 | -.33395 | .33329 | 3.8893 | .02722 |
| #2 | 1.2114 | -.00281 | -.33963 | .33175 | 3.8628 | .02598 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9965.2** | **124540.** | **10646.** |
| Stddev | 4.4 | 664. | 30. |
| %RSD | .04453 | .53313 | .28153 |
| #1 | 9968.3 | 124070. | 10625. |
| #2 | 9962.0 | 125010. | 10667. |

Sample Name: 280-45339-a-6-a  Acquired: 8/14/2013 23:07:10  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00553** | **107.20** | **.09111** | **.01617** | **1.1323** | **.00698** | **-.00147** | **7.6075** | **.00344** | **.21463** |
| Stddev | .00026 | .01 | .00022 | .00058 | .0020 | .00003 | .00115 | .0213 | .00015 | .00047 |
| %RSD | 4.6587 | .00853 | .23816 | 3.6175 | .17871 | .41161 | 78.141 | .27936 | 4.4640 | .21857 |
| #1 | -.00571 | 107.20 | .09127 | .01576 | 1.1309 | .00696 | -.00066 | 7.6226 | .00354 | .21496 |
| #2 | -.00535 | 107.21 | .09096 | .01658 | 1.1337 | .00700 | -.00228 | 7.5925 | .00333 | .21429 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.46219** | **.07558** | **183.72** | **7.3211** | **.10661** | **5.2035** | W **12.246** | **.01616** | **.25444** | **.24268** |
| Stddev | .00036 | .00006 | .22 | .0459 | .00070 | .0085 | .052 | .00028 | .00429 | .00019 |
| %RSD | .07760 | .08481 | .11788 | .62656 | .65498 | .16411 | .42342 | 1.7349 | 1.6874 | .07793 |
| #1 | .46245 | .07563 | 183.57 | 7.2887 | .10611 | 5.1975 | 12.283 | .01597 | .25748 | .24281 |
| #2 | .46194 | .07554 | 183.87 | 7.3536 | .10710 | 5.2096 | 12.210 | .01636 | .25140 | .24254 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4659** | **.43349** | **.70682** | **.00197** | **.00406** | **1.7626** | **3.7719** | **.00733** | **.04952** | **.04934** |
| Stddev | .0032 | .00045 | .00246 | .00255 | .00214 | .0167 | .0358 | .00045 | .00041 | .00084 |
| %RSD | .21821 | .10274 | .34841 | 129.30 | 52.571 | .94982 | .94982 | 6.2070 | .81909 | 1.6956 |
| #1 | 1.4681 | .43381 | .70856 | .00017 | .00557 | 1.7507 | 3.7465 | .00701 | .04924 | .04993 |
| #2 | 1.4636 | .43318 | .70508 | .00377 | .00255 | 1.7744 | 3.7972 | .00765 | .04981 | .04875 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94721** | **-.00481** | F **-.32259** | **.49517** | **1.0256** | **.10228** |
| Stddev | .00105 | .00032 | .03945 | .00201 | .0004 | .00025 |
| %RSD | .11076 | 6.6444 | 12.231 | .40586 | .03425 | .24046 |
| #1 | .94647 | -.00458 | -.35048 | .49375 | 1.0259 | .10211 |
| #2 | .94795 | -.00504 | -.29469 | .49659 | 1.0254 | .10246 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10074.** | **124120.** | **10816.** |
| Stddev | 8. | 86. | 61. |
| %RSD | .08413 | .06891 | .56384 |
| #1 | 10068. | 124180. | 10772. |
| #2 | 10080. | 124060. | 10859. |

Sample Name: 280-45339-a-7-a  Acquired: 8/14/2013 23:09:30  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00279** | **155.11** | **.09578** | **.01130** | **.63826** | **.00690** | **.00022** | **16.158** | **.01249** | **.08928** |
| Stddev | .00028 | .64 | .00067 | .00014 | .00158 | .00006 | .00045 | .079 | .00005 | .00011 |
| %RSD | 9.9383 | .41015 | .69751 | 1.2029 | .24783 | .91270 | 208.38 | .49153 | .39973 | .12181 |
| #1 | -.00298 | 154.66 | .09625 | .01120 | .63714 | .00685 | .00054 | 16.102 | .01245 | .08935 |
| #2 | -.00259 | 155.56 | .09531 | .01139 | .63938 | .00694 | -.00010 | 16.214 | .01252 | .08920 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22722** | **.13019** | **168.02** | **7.6637** | **.07615** | **5.9279** | **5.3596** | **.00564** | **.36200** | **.16956** |
| Stddev | .00083 | .00041 | .66 | .0769 | .00117 | .0218 | .0523 | .00022 | .00042 | .00056 |
| %RSD | .36521 | .31360 | .38990 | 1.0034 | 1.5388 | .36822 | .97598 | 3.9602 | .11529 | .32767 |
| #1 | .22664 | .13048 | 167.56 | 7.6093 | .07532 | 5.9433 | 5.3226 | .00580 | .36171 | .16917 |
| #2 | .22781 | .12991 | 168.48 | 7.7180 | .07697 | 5.9124 | 5.3966 | .00549 | .36230 | .16995 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1486** | **.42684** | **1.2310** | **.00142** | **.00437** | **2.0440** | **4.3742** | **.01237** | **.06676** | **.06356** |
| Stddev | .0060 | .00138 | .0043 | .00046 | .00246 | .0021 | .0045 | .00031 | .00032 | .00007 |
| %RSD | .51958 | .32282 | .34621 | 32.711 | 56.346 | .10196 | .10196 | 2.5114 | .48570 | .10648 |
| #1 | 1.1443 | .42587 | 1.2280 | .00174 | .00611 | 2.0455 | 4.3774 | .01259 | .06653 | .06361 |
| #2 | 1.1528 | .42782 | 1.2340 | .00109 | .00263 | 2.0426 | 4.3711 | .01215 | .06699 | .06352 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75275** | **-.00274** | F **-.31231** | **.34461** | **1.3563** | **.12018** |
| Stddev | .00051 | .00118 | .02360 | .00016 | .0004 | .00199 |
| %RSD | .06803 | 43.082 | 7.5564 | .04596 | .03103 | 1.6533 |
| #1 | .75239 | -.00190 | -.29562 | .34473 | 1.3566 | .11878 |
| #2 | .75311 | -.00357 | -.32900 | .34450 | 1.3560 | .12159 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10604.** | **129560.** | **11522.** |
| Stddev | 15. | 168. | 49. |
| %RSD | .14265 | .12946 | .42451 |
| #1 | 10594. | 129680. | 11557. |
| #2 | 10615. | 129440. | 11488. |

Sample Name: 280-45339-a-8-a  Acquired: 8/14/2013 23:11:48  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **41.810** | **.04233** | **.01645** | **1.4407** | **.00476** | **.00297** | **12.624** | **.03104** | **.09712** |
| Stddev | .00017 | .139 | .00079 | .00001 | .0026 | .00004 | .00380 | .024 | .00010 | .00000 |
| %RSD | 94.996 | .33226 | 1.8586 | .05688 | .18154 | .80366 | 127.68 | .18764 | .31394 | .00487 |
| #1 | -.00006 | 41.712 | .04288 | .01644 | 1.4389 | .00474 | .00566 | 12.608 | .03111 | .09712 |
| #2 | -.00030 | 41.908 | .04177 | .01645 | 1.4426 | .00479 | .00029 | 12.641 | .03097 | .09713 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23835** | **9.0963** | **92.513** | **5.0890** | **.03319** | **3.2668** | W **10.231** | **.00551** | **.34221** | **.12447** |
| Stddev | .00039 | .0187 | .183 | .0196 | .00106 | .0004 | .046 | .00013 | .00991 | .00022 |
| %RSD | .16238 | .20537 | .19802 | .38485 | 3.1858 | .01380 | .44888 | 2.3778 | 2.8968 | .17534 |
| #1 | .23863 | 9.1095 | 92.383 | 5.0751 | .03394 | 3.2672 | 10.198 | .00560 | .34922 | .12432 |
| #2 | .23808 | 9.0831 | 92.642 | 5.1028 | .03244 | 3.2665 | 10.263 | .00542 | .33520 | .12462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.6967** | **3.7761** | **2.0341** | **.00373** | **.00328** | **2.3974** | **5.1304** | **.13208** | **.11738** | **.01722** |
| Stddev | .0053 | .0034 | .0040 | .00027 | .00061 | .0326 | .0698 | .00078 | .00061 | .00080 |
| %RSD | .19779 | .09002 | .19621 | 7.2660 | 18.610 | 1.3611 | 1.3611 | .59067 | .52244 | 4.6611 |
| #1 | 2.7004 | 3.7785 | 2.0313 | .00392 | .00371 | 2.3743 | 5.0810 | .13263 | .11695 | .01665 |
| #2 | 2.6929 | 3.7737 | 2.0370 | .00354 | .00285 | 2.4205 | 5.1798 | .13153 | .11781 | .01778 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.97384** | **-.00138** | F **-.24723** | **.20166** | **3.2359** | **.01145** |
| Stddev | .00015 | .00028 | .02386 | .00011 | .0033 | .00010 |
| %RSD | .01532 | 20.388 | 9.6500 | .05349 | .10335 | .90332 |
| #1 | .97395 | -.00157 | -.23036 | .20158 | 3.2335 | .01138 |
| #2 | .97374 | -.00118 | -.26410 | .20173 | 3.2383 | .01152 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9918.0** | **123820.** | **10612.** |
| Stddev | 7.0 | 652. | 77. |
| %RSD | .07056 | .52638 | .72574 |
| #1 | 9913.0 | 124290. | 10667. |
| #2 | 9922.9 | 123360. | 10558. |

Sample Name: 280-45339-a-9-a  Acquired: 8/14/2013 23:14:06  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00154** | **98.863** | **.04334** | **.01158** | **.69376** | **.00342** | **-.00165** | **7.6235** | **.00066** | **.07222** |
| Stddev | .00010 | .338 | .00004 | .00028 | .00119 | .00002 | .00275 | .0182 | .00014 | .00017 |
| %RSD | 6.7950 | .34168 | .08347 | 2.4266 | .17162 | .64299 | 166.75 | .23871 | 21.740 | .24219 |
| #1 | -.00146 | 98.624 | .04332 | .01138 | .69292 | .00343 | .00030 | 7.6107 | .00076 | .07210 |
| #2 | -.00161 | 99.102 | .04337 | .01178 | .69460 | .00340 | -.00360 | 7.6364 | .00056 | .07234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23376** | **.05246** | **105.66** | **6.9685** | **.04835** | **5.3175** | **2.0238** | **.00420** | **.33719** | **.09085** |
| Stddev | .00056 | .00012 | .26 | .0291 | .00178 | .0013 | .0004 | .00006 | .00171 | .00025 |
| %RSD | .24144 | .22637 | .24750 | .41829 | 3.6729 | .02436 | .01713 | 1.5360 | .50690 | .27529 |
| #1 | .23416 | .05254 | 105.48 | 6.9891 | .04961 | 5.3184 | 2.0240 | .00425 | .33598 | .09103 |
| #2 | .23336 | .05237 | 105.85 | 6.9479 | .04710 | 5.3166 | 2.0235 | .00416 | .33839 | .09068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5668** | **.09853** | **.25805** | **.00083** | **.00165** | **1.6886** | **3.6135** | **.00746** | **.05699** | **.04012** |
| Stddev | .0026 | .00075 | .00010 | .00030 | .00075 | .0263 | .0563 | .00006 | .00013 | .00018 |
| %RSD | .16317 | .75951 | .04021 | 36.220 | 45.243 | 1.5569 | 1.5569 | .85876 | .23499 | .45372 |
| #1 | 1.5686 | .09906 | .25812 | .00104 | .00112 | 1.6700 | 3.5737 | .00741 | .05709 | .04000 |
| #2 | 1.5650 | .09800 | .25798 | .00062 | .00218 | 1.7071 | 3.6533 | .00751 | .05690 | .04025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0048** | **-.00255** | F **-.11867** | **.22469** | **.20974** | **.11822** |
| Stddev | .0014 | .00173 | .00299 | .00031 | .00088 | .00166 |
| %RSD | .13871 | 67.761 | 2.5163 | .13580 | .42056 | 1.4054 |
| #1 | 1.0038 | -.00377 | -.11656 | .22491 | .21036 | .11705 |
| #2 | 1.0058 | -.00133 | -.12078 | .22448 | .20911 | .11940 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9816.1** | **120740.** | **10509.** |
| Stddev | 6.6 | 16. | 47. |
| %RSD | .06763 | .01360 | .45011 |
| #1 | 9811.4 | 120750. | 10543. |
| #2 | 9820.8 | 120730. | 10476. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 23:16:20 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00090** | **50.537** | **.00362** | **.00282** | **.00059** | **-.00008** | **1.0149** | **-.00853** | **-.00020** | **.00024** | **-.00006** | **.00322** | **49.040** |
| Stddev | .00012 | .263 | .00064 | .00020 | .00018 | .00002 | .0056 | .00071 | .00024 | .00003 | .00018 | .00025 | .142 |
| %RSD | 13.881 | .51941 | 17.663 | 7.1671 | 30.980 | 27.964 | .54778 | 8.3035 | 119.40 | 14.079 | 320.67 | 7.6089 | .29015 |
| #1 | .00098 | 50.723 | .00317 | .00268 | .00046 | -.00009 | 1.0189 | -.00803 | -.00038 | .00026 | -.00018 | .00340 | 48.939 |
| #2 | .00081 | 50.352 | .00407 | .00297 | .00072 | -.00006 | 1.0110 | -.00903 | -.00003 | .00021 | .00007 | .00305 | 49.141 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13296** | **-.00159** | **-.01066** | **.00069** | **-.00007** | **250.31** | **.00084** | **.00595** | **.00306** | **5.1068** | **.00153** | **-.00018** | **-.00756** |
| Stddev | .04363 | .00244 | .00086 | .00001 | .00005 | .87 | .00037 | .00128 | .00106 | .0203 | .00027 | .00093 | .00640 |
| %RSD | 32.812 | 152.80 | 8.0579 | .73435 | 72.077 | .34904 | 43.833 | 21.451 | 34.657 | .39816 | 17.839 | 509.71 | 84.605 |
| #1 | .10212 | .00013 | -.01127 | .00069 | -.00003 | 250.93 | .00058 | .00505 | .00381 | 5.1212 | .00134 | .00047 | -.01209 |
| #2 | .16381 | -.00332 | -.01005 | .00070 | -.00010 | 249.69 | .00111 | .00685 | .00231 | 5.0925 | .00172 | -.00084 | -.00304 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01619** | **.00056** | **.00045** | **4.9215** | **-.00024** | **.00080** | **10.130** | **.00131** | **.00147** | **.02901** |
| Stddev | .01370 | .00023 | .00004 | .0021 | .00016 | .00131 | .072 | .00040 | .00021 | .00106 |
| %RSD | 84.605 | 41.288 | 7.9170 | .04294 | 69.498 | 163.48 | .70681 | 30.801 | 14.284 | 3.6377 |
| #1 | -.02587 | .00072 | .00042 | 4.9230 | -.00012 | .00173 | 10.181 | .00159 | .00162 | .02976 |
| #2 | -.00650 | .00039 | .00047 | 4.9200 | -.00035 | -.00012 | 10.079 | .00102 | .00132 | .02826 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9097.6** | **113120.** | **9809.3** |
| Stddev | 4.3 | 315. | 125.4 |
| %RSD | .04703 | .27886 | 1.2783 |
| #1 | 9100.6 | 112900. | 9720.7 |
| #2 | 9094.6 | 113350. | 9898.0 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 23:18:42 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50136** | **.52726** | **.98614** | **.50261** | **.48288** | **.49720** | **.00154** | **4.9918** | **.50818** | **.51260** | **.49756** | **.51221** | **2.5130** |
| Stddev | .00027 | .00134 | .00620 | .00052 | .00216 | .00380 | .00122 | .0309 | .00076 | .00042 | .00024 | .00016 | .0126 |
| %RSD | .05314 | .25417 | .62893 | .10338 | .44790 | .76355 | 79.374 | .61815 | .14973 | .08114 | .04791 | .03183 | .50301 |
| #1 | .50117 | .52821 | .98176 | .50224 | .48135 | .49451 | .00240 | 4.9700 | .50765 | .51290 | .49739 | .51233 | 2.5040 |
| #2 | .50155 | .52631 | .99053 | .50298 | .48441 | .49988 | .00067 | 5.0136 | .50872 | .51231 | .49773 | .51210 | 2.5219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.815** | **.97967** | **19.489** | **.50661** | **.49277** | **5.2731** | **.50272** | **.98358** | **1.0219** | **.00503** | **1.0356** | **.99936** | **4.8895** |
| Stddev | .260 | .00288 | .007 | .00001 | .00097 | .0062 | .00057 | .00277 | .0005 | .00050 | .0000 | .00525 | .0216 |
| %RSD | .52217 | .29369 | .03628 | .00266 | .19737 | .11702 | .11302 | .28162 | .04957 | 10.015 | .00020 | .52525 | .44282 |
| #1 | 49.631 | .97764 | 19.494 | .50662 | .49346 | 5.2775 | .50231 | .98553 | 1.0222 | .00538 | 1.0356 | 1.0031 | 4.8742 |
| #2 | 49.999 | .98170 | 19.484 | .50660 | .49208 | 5.2687 | .50312 | .98162 | 1.0215 | .00467 | 1.0356 | .99564 | 4.9048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.464** | **.99555** | **.50273** | **-.00559** | **.51072** | **1.0409** | **.03870** | **.50447** | **.49320** | **.50424** |
| Stddev | .046 | .00354 | .00158 | .00040 | .00004 | .0015 | .01166 | .00199 | .00028 | .00108 |
| %RSD | .44282 | .35552 | .31467 | 7.0884 | .00768 | .13994 | 30.123 | .39544 | .05671 | .21409 |
| #1 | 10.431 | .99805 | .50161 | -.00587 | .51069 | 1.0419 | .03046 | .50588 | .49301 | .50347 |
| #2 | 10.496 | .99304 | .50385 | -.00531 | .51075 | 1.0399 | .04694 | .50305 | .49340 | .50500 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9177.9** | **116260.** | **9803.8** |
| Stddev | 16.8 | 643. | 61.6 |
| %RSD | .18331 | .55322 | .62882 |
| #1 | 9166.0 | 115800. | 9847.4 |
| #2 | 9189.8 | 116710. | 9760.2 |

Sample Name: CCB Acquired: 8/14/2013 23:20:49 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00162** | **.00098** | **.00164** | **-.00005** | **.00003** | **.00126** | **-.00257** | **-.00013** | **.00021** | **-.00012** | **-.00050** |
| Stddev | .00026 | .00021 | .00032 | .00021 | .00012 | .00011 | .00170 | .00216 | .00007 | .00020 | .00004 | .00000 |
| %RSD | 1027.5 | 13.098 | 33.233 | 12.992 | 257.50 | 340.14 | 134.89 | 84.281 | 49.581 | 93.833 | 35.722 | .20952 |
| #1 | -.00016 | .00177 | .00075 | .00179 | .00004 | -.00005 | .00246 | -.00409 | -.00018 | .00035 | -.00014 | -.00050 |
| #2 | .00021 | .00147 | .00121 | .00149 | -.00013 | .00011 | .00006 | -.00104 | -.00009 | .00007 | -.00009 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00246** | **.17232** | **-.00175** | **.00017** | **.00017** | **.00061** | W **.11133** | **-.00006** | **.00163** | **-.00101** | **.00525** | **.00090** |
| Stddev | .00003 | .08224 | .00126 | .00088 | .00003 | .00032 | .00497 | .00020 | .00049 | .00088 | .00032 | .00186 |
| %RSD | 1.2423 | 47.724 | 72.256 | 518.89 | 16.968 | 51.886 | 4.4665 | 346.18 | 30.006 | 87.461 | 6.1740 | 206.99 |
| #1 | .00244 | .23047 | -.00085 | .00079 | .00015 | .00039 | .10781 | .00009 | .00129 | -.00163 | .00548 | .00222 |
| #2 | .00248 | .11417 | -.00264 | -.00045 | .00019 | .00083 | .11484 | -.00020 | .00198 | -.00038 | .00503 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .09160 | | | | | |
| Low Limit | | | | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00596** | **.01257** | **.02690** | **.00033** | **.00006** | **-.00044** | **.00056** | **-.00098** | **.02903** | **.00084** | **.00167** | **-.00123** |
| Stddev | .00344 | .00117 | .00250 | .00004 | .00018 | .00078 | .00009 | .00041 | .00371 | .00006 | .00006 | .00068 |
| %RSD | 57.698 | 9.2861 | 9.2861 | 11.679 | 287.64 | 177.34 | 15.094 | 42.441 | 12.771 | 6.5435 | 3.8728 | 55.544 |
| #1 | .00353 | .01174 | .02513 | .00036 | .00019 | -.00100 | .00050 | -.00068 | .02640 | .00080 | .00162 | -.00172 |
| #2 | .00839 | .01339 | .02866 | .00030 | -.00007 | .00011 | .00062 | -.00127 | .03165 | .00088 | .00171 | -.00075 |
| Check ? | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00486 | | | | | | | | | | | |
| Low Limit | -.00486 | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9230.3** | **118120.** | **9745.6** |
| Stddev | 7.5 | 333. | 5.0 |
| %RSD | .08163 | .28221 | .05140 |
| #1 | 9224.9 | 117880. | 9749.2 |
| #2 | 9235.6 | 118360. | 9742.1 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 23:23:05 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01014** | **.10938** | **.01397** | **.09600** | **.00975** | **.00099** | **.11327** | **.20389** | **.00527** | **.01077** | **.01029** | **.01507** | **.10489** |
| Stddev | .00045 | .00066 | .00235 | .00015 | .00007 | .00003 | .00058 | .00168 | .00011 | .00004 | .00019 | .00037 | .00236 |
| %RSD | 4.4475 | .60751 | 16.838 | .15508 | .69455 | 3.3338 | .50968 | .82314 | 2.1078 | .34505 | 1.8353 | 2.4667 | 2.2501 |
| #1 | .00982 | .10891 | .01563 | .09610 | .00970 | .00097 | .11287 | .20271 | .00520 | .01075 | .01042 | .01533 | .10656 |
| #2 | .01046 | .10985 | .01231 | .09589 | .00980 | .00102 | .11368 | .20508 | .00535 | .01080 | .01015 | .01480 | .10323 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1037** | **.00951** | **.20111** | **.01047** | **.01971** | **1.1436** | **.04142** | **2.8023** | **.00881** | **.00674** | **.00937** | **.01619** | **.48127** |
| Stddev | .0243 | .00049 | .00206 | .00006 | .00003 | .0155 | .00027 | .0026 | .00008 | .00100 | .00066 | .00281 | .00827 |
| %RSD | .78298 | 5.1967 | 1.0262 | .55477 | .14618 | 1.3549 | .64488 | .09425 | .95429 | 14.865 | 7.0544 | 17.376 | 1.7179 |
| #1 | 3.1209 | .00986 | .20257 | .01043 | .01969 | 1.1546 | .04161 | 2.8041 | .00875 | .00745 | .00890 | .01420 | .48711 |
| #2 | 3.0865 | .00916 | .19965 | .01051 | .01974 | 1.1326 | .04123 | 2.8004 | .00887 | .00603 | .00984 | .01818 | .47542 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0299** | **.10061** | **.01020** | **.01411** | **.01028** | **.01475** | F **.10826** | **.01101** | **.02136** | **.01531** |
| Stddev | .0177 | .00122 | .00015 | .00028 | .00006 | .00047 | .00715 | .00022 | .00004 | .00147 |
| %RSD | 1.7179 | 1.2162 | 1.4556 | 2.0120 | .54895 | 3.1686 | 6.6065 | 1.9553 | .20498 | 9.5855 |
| #1 | 1.0424 | .10148 | .01031 | .01431 | .01032 | .01508 | .10321 | .01085 | .02133 | .01635 |
| #2 | 1.0174 | .09975 | .01010 | .01390 | .01024 | .01442 | .11332 | .01116 | .02139 | .01427 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9264.3** | **118570.** | **9758.1** |
| Stddev | 18.0 | 63. | 6.9 |
| %RSD | .19445 | .05341 | .07099 |
| #1 | 9251.6 | 118520. | 9753.2 |
| #2 | 9277.1 | 118610. | 9763.0 |

Sample Name: 280-45339-a-10-a  Acquired: 8/14/2013 23:25:21  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00400** | **165.27** | **.09983** | **.01674** | **.90710** | **.00757** | **-.00137** | **19.931** | **.05218** | **.12535** |
| Stddev | .00046 | .28 | .00077 | .00107 | .00091 | .00002 | .00124 | .030 | .00018 | .00093 |
| %RSD | 11.544 | .17205 | .77046 | 6.4185 | .10081 | .21487 | 90.627 | .15202 | .34556 | .73881 |
| #1 | -.00432 | 165.07 | .09929 | .01750 | .90645 | .00756 | -.00049 | 19.909 | .05230 | .12600 |
| #2 | -.00367 | 165.48 | .10038 | .01598 | .90775 | .00758 | -.00225 | 19.952 | .05205 | .12469 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28820** | **.46621** | **197.68** | **9.3065** | **.08506** | **6.3236** | **8.9402** | **.00699** | **.36215** | **.17406** |
| Stddev | .00068 | .00074 | .37 | .0439 | .00166 | .0159 | .0082 | .00004 | .00277 | .00169 |
| %RSD | .23529 | .15778 | .18764 | .47205 | 1.9471 | .25114 | .09177 | .59809 | .76544 | .97376 |
| #1 | .28868 | .46569 | 197.42 | 9.2754 | .08389 | 6.3348 | 8.9460 | .00696 | .36019 | .17526 |
| #2 | .28772 | .46673 | 197.95 | 9.3375 | .08623 | 6.3124 | 8.9344 | .00702 | .36411 | .17286 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4025** | **.42887** | **.81043** | **.00025** | **.00176** | **2.0171** | **4.3167** | **.01334** | **.04042** | **.06713** |
| Stddev | .0047 | .00434 | .00076 | .00069 | .00738 | .0021 | .0045 | .00060 | .00028 | .00179 |
| %RSD | .33230 | 1.0110 | .09320 | 278.83 | 420.36 | .10387 | .10387 | 4.5162 | .69551 | 2.6653 |
| #1 | 1.4058 | .43193 | .81096 | .00073 | -.00346 | 2.0156 | 4.3135 | .01292 | .04022 | .06840 |
| #2 | 1.3992 | .42580 | .80989 | -.00024 | .00698 | 2.0186 | 4.3198 | .01377 | .04062 | .06587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.82981** | **-.00292** | F **-.34410** | **.42581** | **2.3213** | **.14289** |
| Stddev | .00134 | .00018 | .00362 | .00029 | .0095 | .00199 |
| %RSD | .16166 | 6.0987 | 1.0514 | .06694 | .40855 | 1.3941 |
| #1 | .82886 | -.00305 | -.34154 | .42601 | 2.3280 | .14149 |
| #2 | .83076 | -.00279 | -.34666 | .42560 | 2.3146 | .14430 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10435.** | **127120.** | **11210.** |
| Stddev | 11. | 175. | 34. |
| %RSD | .10415 | .13792 | .30496 |
| #1 | 10428. | 127000. | 11234. |
| #2 | 10443. | 127250. | 11186. |

Sample Name: 280-45339-a-11-a  Acquired: 8/14/2013 23:27:43  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00267** | **54.671** | **.04699** | **.01924** | **1.6763** | **.00535** | **.00090** | **14.639** | **.07474** | **.10651** |
| Stddev | .00027 | .395 | .00416 | .00031 | .0106 | .00004 | .00044 | .097 | .00011 | .00006 |
| %RSD | 10.004 | .72181 | 8.8427 | 1.6233 | .63224 | .72600 | 48.961 | .66422 | .14307 | .05672 |
| #1 | -.00248 | 54.392 | .04993 | .01901 | 1.6688 | .00532 | .00059 | 14.570 | .07466 | .10656 |
| #2 | -.00286 | 54.950 | .04405 | .01946 | 1.6838 | .00537 | .00121 | 14.707 | .07482 | .10647 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16510** | **2.9753** | **91.421** | **6.7287** | **.04518** | **4.4599** | W **17.335** | **.00546** | **.34208** | **.13565** |
| Stddev | .00008 | .0020 | .160 | .0391 | .00070 | .0092 | .199 | .00023 | .00036 | .00025 |
| %RSD | .04889 | .06615 | .17486 | .58112 | 1.5397 | .20743 | 1.1499 | 4.2084 | .10593 | .18301 |
| #1 | .16504 | 2.9767 | 91.308 | 6.7011 | .04469 | 4.4665 | 17.475 | .00530 | .34234 | .13583 |
| #2 | .16516 | 2.9739 | 91.534 | 6.7564 | .04567 | 4.4534 | 17.194 | .00563 | .34182 | .13548 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.2557** | **.93794** | **1.1703** | **.00275** | **.00841** | **3.1899** | **6.8264** | **.03022** | **.11823** | **.03220** |
| Stddev | .0010 | .00238 | .0065 | .00062 | .00026 | .0299 | .0639 | .00006 | .00038 | .00013 |
| %RSD | .03093 | .25421 | .55651 | 22.417 | 3.1479 | .93660 | .93660 | .19555 | .32286 | .40821 |
| #1 | 3.2550 | .93626 | 1.1749 | .00232 | .00823 | 3.1688 | 6.7812 | .03018 | .11796 | .03210 |
| #2 | 3.2564 | .93963 | 1.1657 | .00319 | .00860 | 3.2110 | 6.8716 | .03026 | .11850 | .03229 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2472** | **-.00017** | F **-.37514** | **.21787** | **7.0372** | **.01321** |
| Stddev | .0015 | .00065 | .00022 | .00051 | .0051 | .00070 |
| %RSD | .11771 | 386.94 | .05882 | .23407 | .07280 | 5.2616 |
| #1 | 1.2483 | .00029 | -.37499 | .21823 | 7.0408 | .01272 |
| #2 | 1.2462 | -.00062 | -.37530 | .21751 | 7.0336 | .01370 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9966.5** | **123940.** | **10683.** |
| Stddev | 17.3 | 352. | 101. |
| %RSD | .17360 | .28376 | .94943 |
| #1 | 9978.7 | 123690. | 10754. |
| #2 | 9954.2 | 124190. | 10611. |

Sample Name: 280-45339-a-13-a  Acquired: 8/14/2013 23:30:00  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00229** | **203.19** | **.21296** | **.01342** | **.56993** | **.01009** | **-.00203** | **25.545** | **.01455** | **.05167** |
| Stddev | .00008 | .21 | .00043 | .00028 | .00123 | .00006 | .00081 | .040 | .00002 | .00031 |
| %RSD | 3.6177 | .10134 | .20114 | 2.0944 | .21624 | .61283 | 39.814 | .15762 | .14221 | .60831 |
| #1 | -.00224 | 203.34 | .21266 | .01322 | .56906 | .01004 | -.00146 | 25.517 | .01456 | .05145 |
| #2 | -.00235 | 203.05 | .21326 | .01362 | .57081 | .01013 | -.00260 | 25.574 | .01453 | .05189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32040** | **.22916** | **260.48** | **9.0132** | **.08579** | **6.0231** | **2.2795** | **.00962** | **.37019** | **.24675** |
| Stddev | .00007 | .00039 | 1.08 | .0170 | .00111 | .0140 | .0074 | .00007 | .00248 | .00094 |
| %RSD | .02241 | .16899 | .41505 | .18810 | 1.2909 | .23228 | .32391 | .68442 | .67036 | .38005 |
| #1 | .32045 | .22944 | 259.72 | 9.0252 | .08500 | 6.0330 | 2.2848 | .00958 | .37195 | .24608 |
| #2 | .32035 | .22889 | 261.25 | 9.0012 | .08657 | 6.0132 | 2.2743 | .00967 | .36844 | .24741 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4354** | **.50566** | **.69318** | **.00341** | **.00370** | **1.9423** | **4.1565** | **.01400** | **.04539** | **.07631** |
| Stddev | .0064 | .00032 | .00259 | .00374 | .00234 | .0125 | .0268 | .00012 | .00026 | .00137 |
| %RSD | .44276 | .06237 | .37349 | 109.84 | 63.215 | .64441 | .64441 | .87761 | .57490 | 1.7935 |
| #1 | 1.4309 | .50544 | .69135 | .00606 | .00536 | 1.9335 | 4.1376 | .01408 | .04521 | .07728 |
| #2 | 1.4399 | .50589 | .69501 | .00076 | .00205 | 1.9512 | 4.1755 | .01391 | .04558 | .07534 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.56484** | **-.00352** | F **-.35728** | **.42734** | **1.7895** | **.12815** |
| Stddev | .00071 | .00094 | .01221 | .00127 | .0022 | .00002 |
| %RSD | .12593 | 26.567 | 3.4177 | .29815 | .12334 | .01354 |
| #1 | .56535 | -.00286 | -.34865 | .42644 | 1.7910 | .12814 |
| #2 | .56434 | -.00418 | -.36591 | .42825 | 1.7879 | .12817 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11360.** | **137660.** | **12288.** |
| Stddev | 32. | 489. | 4. |
| %RSD | .27959 | .35515 | .03101 |
| #1 | 11382. | 137310. | 12291. |
| #2 | 11337. | 138000. | 12286. |

Sample Name: 280-45339-a-14-a  Acquired: 8/14/2013 23:32:22  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00192** | **96.253** | **.03941** | **.01520** | **.63561** | **.00272** | **-.00103** | **8.4563** | **.00063** | **.09980** |
| Stddev | .00111 | .442 | .00263 | .00035 | .00392 | .00004 | .00234 | .0352 | .00000 | .00052 |
| %RSD | 57.552 | .45972 | 6.6676 | 2.3220 | .61693 | 1.4413 | 227.15 | .41624 | .65207 | .52247 |
| #1 | -.00114 | 95.940 | .03755 | .01495 | .63284 | .00270 | -.00268 | 8.4314 | .00064 | .09943 |
| #2 | -.00271 | 96.566 | .04127 | .01544 | .63838 | .00275 | .00062 | 8.4812 | .00063 | .10017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15400** | **.05388** | **83.722** | **7.2266** | **.05307** | **5.4593** | **2.9629** | **.00415** | **.43899** | **.09380** |
| Stddev | .00096 | .00000 | .562 | .1024 | .00165 | .0253 | .0003 | .00005 | .01360 | .00056 |
| %RSD | .62128 | .00478 | .67105 | 1.4175 | 3.1121 | .46305 | .01096 | 1.1372 | 3.0990 | .59395 |
| #1 | .15332 | .05388 | 83.325 | 7.1542 | .05190 | 5.4414 | 2.9631 | .00418 | .42937 | .09341 |
| #2 | .15467 | .05388 | 84.119 | 7.2990 | .05424 | 5.4771 | 2.9626 | .00412 | .44861 | .09419 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1972** | **.13484** | **.11624** | **.00222** | **.00325** | **1.6536** | **3.5387** | **.00679** | **.06440** | **.03968** |
| Stddev | .0087 | .00015 | .00296 | .00108 | .00100 | .0023 | .0050 | .00005 | .00025 | .00076 |
| %RSD | .72797 | .11220 | 2.5432 | 48.516 | 30.748 | .14102 | .14102 | .74627 | .38175 | 1.9060 |
| #1 | 1.1910 | .13473 | .11833 | .00298 | .00254 | 1.6519 | 3.5351 | .00683 | .06422 | .03915 |
| #2 | 1.2034 | .13495 | .11415 | .00146 | .00396 | 1.6552 | 3.5422 | .00676 | .06457 | .04022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.94357** | **-.00265** | F **-.16147** | **.19627** | **.16021** | **.11779** |
| Stddev | .00177 | .00047 | .02270 | .00047 | .00011 | .00165 |
| %RSD | .18771 | 17.757 | 14.058 | .24197 | .06907 | 1.4007 |
| #1 | .94232 | -.00298 | -.17752 | .19593 | .16013 | .11896 |
| #2 | .94482 | -.00231 | -.14542 | .19660 | .16029 | .11663 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9619.6** | **118280.** | **10231.** |
| Stddev | 18.4 | 965. | 20. |
| %RSD | .19134 | .81616 | .19426 |
| #1 | 9632.6 | 118960. | 10245. |
| #2 | 9606.6 | 117590. | 10217. |

Sample Name: 280-45339-a-15-a  Acquired: 8/14/2013 23:34:42  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00166** | **231.61** | **.11496** | **.00615** | **.46870** | **.00781** | **.00177** | **25.035** | **.00638** | **.03762** |
| Stddev | .00030 | 2.36 | .00080 | .00065 | .00318 | .00009 | .00101 | .206 | .00018 | .00018 |
| %RSD | 18.176 | 1.0170 | .69874 | 10.510 | .67746 | 1.1197 | 56.903 | .82296 | 2.8796 | .48296 |
| #1 | -.00145 | 229.94 | .11439 | .00569 | .46645 | .00775 | .00249 | 24.889 | .00651 | .03775 |
| #2 | -.00187 | 233.28 | .11553 | .00661 | .47094 | .00787 | .00106 | 25.181 | .00625 | .03749 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27684** | **.06826** | **221.44** | **8.6654** | **.06988** | **6.1808** | **1.2837** | **.00504** | **.31480** | **.14063** |
| Stddev | .00055 | .00033 | 1.24 | .1350 | .00382 | .0188 | .0016 | .00009 | .00785 | .00031 |
| %RSD | .19949 | .48988 | .56019 | 1.5576 | 5.4610 | .30378 | .12388 | 1.8832 | 2.4939 | .22118 |
| #1 | .27723 | .06850 | 220.57 | 8.5700 | .06718 | 6.1941 | 1.2849 | .00511 | .32035 | .14041 |
| #2 | .27645 | .06803 | 222.32 | 8.7609 | .07258 | 6.1676 | 1.2826 | .00497 | .30924 | .14085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75638** | **.16875** | **.71116** | **.00053** | **.00241** | **1.5584** | **3.3350** | **.01576** | **.04730** | **.06889** |
| Stddev | .00252 | .00045 | .00320 | .00049 | .00228 | .0304 | .0651 | .00029 | .00058 | .00390 |
| %RSD | .33304 | .26525 | .44995 | 92.352 | 94.583 | 1.9518 | 1.9518 | 1.8544 | 1.2254 | 5.6670 |
| #1 | .75460 | .16843 | .71343 | .00087 | .00080 | 1.5369 | 3.2890 | .01597 | .04689 | .07165 |
| #2 | .75816 | .16906 | .70890 | .00018 | .00402 | 1.5799 | 3.3810 | .01555 | .04771 | .06613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50727** | **-.00459** | F **-.21670** | **.44251** | **.91215** | **.12211** |
| Stddev | .00073 | .00120 | .02889 | .00013 | .00034 | .00264 |
| %RSD | .14462 | 26.022 | 13.333 | .02925 | .03703 | 2.1582 |
| #1 | .50675 | -.00544 | -.19627 | .44260 | .91239 | .12024 |
| #2 | .50778 | -.00375 | -.23712 | .44242 | .91191 | .12397 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10387.** | **125630.** | **11191.** |
| Stddev | 3. | 365. | 130. |
| %RSD | .03223 | .29031 | 1.1618 |
| #1 | 10384. | 125890. | 11283. |
| #2 | 10389. | 125380. | 11099. |

Sample Name: 280-45339-a-16-a  Acquired: 8/14/2013 23:37:00  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00210** | **60.910** | **.03013** | **.01602** | **1.3682** | **.00597** | **-.00219** | **14.002** | **.01556** | **.08519** |
| Stddev | .00079 | .119 | .00008 | .00008 | .0003 | .00000 | .00150 | .005 | .00009 | .00032 |
| %RSD | 37.447 | .19500 | .25944 | .49828 | .01877 | .00149 | 68.375 | .03692 | .54967 | .37451 |
| #1 | -.00265 | 60.827 | .03019 | .01596 | 1.3680 | .00597 | -.00113 | 14.006 | .01550 | .08496 |
| #2 | -.00154 | 60.994 | .03008 | .01607 | 1.3684 | .00597 | -.00325 | 13.999 | .01562 | .08542 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16138** | **.15627** | **71.958** | **7.3158** | **.06793** | **4.6484** | **1.8067** | **.00312** | **.30700** | **.14685** |
| Stddev | .00060 | .00000 | .063 | .0620 | .00154 | .0096 | .0022 | .00013 | .00401 | .00038 |
| %RSD | .37278 | .00290 | .08773 | .84806 | 2.2737 | .20688 | .12019 | 4.0497 | 1.3060 | .26187 |
| #1 | .16180 | .15626 | 72.003 | 7.3597 | .06684 | 4.6552 | 1.8082 | .00320 | .30416 | .14658 |
| #2 | .16095 | .15627 | 71.913 | 7.2719 | .06902 | 4.6416 | 1.8052 | .00303 | .30983 | .14712 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8308** | **.48866** | **1.7493** | **-.00057** | **.00433** | **2.8494** | **6.0977** | **.00870** | **.09622** | **.05156** |
| Stddev | .0010 | .00021 | .0036 | .00138 | .00301 | .0049 | .0105 | .00030 | .00025 | .00154 |
| %RSD | .05558 | .04399 | .20591 | 242.54 | 69.540 | .17279 | .17279 | 3.4652 | .26190 | 2.9943 |
| #1 | 1.8301 | .48881 | 1.7468 | .00041 | .00220 | 2.8459 | 6.0903 | .00849 | .09640 | .05046 |
| #2 | 1.8315 | .48850 | 1.7519 | -.00155 | .00645 | 2.8529 | 6.1052 | .00892 | .09604 | .05265 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5938** | **-.00166** | F **-.33534** | **.18910** | **2.6231** | **.04904** |
| Stddev | .0004 | .00117 | .04155 | .00026 | .0032 | .00021 |
| %RSD | .02474 | 70.205 | 12.391 | .13665 | .12070 | .43276 |
| #1 | 1.5935 | -.00084 | -.30596 | .18891 | 2.6253 | .04889 |
| #2 | 1.5940 | -.00249 | -.36472 | .18928 | 2.6209 | .04919 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10047.** | **124410.** | **10710.** |
| Stddev | 8. | 63. | 19. |
| %RSD | .07753 | .05059 | .17361 |
| #1 | 10042. | 124460. | 10697. |
| #2 | 10053. | 124370. | 10723. |

Sample Name: 280-45339-a-17-a  Acquired: 8/14/2013 23:39:13  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00189** | **120.63** | **.06968** | **.01358** | **.71893** | **.00556** | **-.00077** | **11.385** | **.00084** | **.14708** |
| Stddev | .00029 | .01 | .00119 | .00013 | .00100 | .00009 | .00162 | .014 | .00018 | .00002 |
| %RSD | 15.239 | .01098 | 1.7093 | .93366 | .13865 | 1.5664 | 209.89 | .11908 | 20.881 | .01363 |
| #1 | -.00168 | 120.64 | .06883 | .01367 | .71822 | .00550 | -.00191 | 11.376 | .00072 | .14707 |
| #2 | -.00209 | 120.62 | .07052 | .01349 | .71963 | .00563 | .00037 | 11.395 | .00097 | .14710 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.89104** | **.07075** | **168.18** | **8.3959** | **.07525** | **6.0439** | **3.9861** | **.01017** | **.37411** | **.14520** |
| Stddev | .00072 | .00030 | .30 | .0441 | .00301 | .0060 | .0468 | .00024 | .02052 | .00005 |
| %RSD | .08040 | .42661 | .17770 | .52576 | 3.9994 | .09871 | 1.1745 | 2.3541 | 5.4854 | .03123 |
| #1 | .89053 | .07096 | 167.97 | 8.3647 | .07312 | 6.0481 | 4.0192 | .01000 | .38862 | .14524 |
| #2 | .89154 | .07054 | 168.39 | 8.4271 | .07738 | 6.0397 | 3.9530 | .01034 | .35960 | .14517 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8482** | **.23419** | **.22666** | **.00081** | **.00341** | **2.1811** | **4.6676** | **.00892** | **.05618** | **.04720** |
| Stddev | .0021 | .00065 | .00236 | .00074 | .00158 | .0425 | .0911 | .00006 | .00043 | .00035 |
| %RSD | .11578 | .27547 | 1.0424 | 90.642 | 46.357 | 1.9510 | 1.9510 | .65670 | .77061 | .73501 |
| #1 | 1.8498 | .23464 | .22833 | .00133 | .00453 | 2.1510 | 4.6032 | .00896 | .05587 | .04745 |
| #2 | 1.8467 | .23373 | .22499 | .00029 | .00230 | 2.2112 | 4.7320 | .00888 | .05648 | .04696 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1589** | **-.00397** | F **-.16965** | **.44091** | **.19738** | **.14951** |
| Stddev | .0001 | .00031 | .02303 | .00141 | .00016 | .00218 |
| %RSD | .00691 | 7.8759 | 13.573 | .31915 | .08286 | 1.4556 |
| #1 | 1.1589 | -.00420 | -.18593 | .44190 | .19750 | .14797 |
| #2 | 1.1588 | -.00375 | -.15337 | .43991 | .19727 | .15105 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9535.8** | **117780.** | **10168.** |
| Stddev | 19.8 | 240. | 4. |
| %RSD | .20739 | .20372 | .04356 |
| #1 | 9549.7 | 117610. | 10171. |
| #2 | 9521.8 | 117950. | 10165. |

Sample Name: CCVH-2174668 Acquired: 8/14/2013 23:41:32 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **50.821** | **.00465** | **.00239** | **.00086** | **-.00016** | **1.0087** | **-.00963** | **-.00002** | **.00019** | **-.00021** | **.00240** | **49.007** |
| Stddev | .00012 | .239 | .00093 | .00017 | .00022 | .00006 | .0078 | .00305 | .00002 | .00017 | .00011 | .00000 | .483 |
| %RSD | 25.381 | .47049 | 19.981 | 7.2330 | 25.754 | 38.207 | .77452 | 31.635 | 89.504 | 91.120 | 54.347 | .05751 | .98481 |
| #1 | .00038 | 50.652 | .00531 | .00252 | .00101 | -.00012 | 1.0032 | -.00748 | -.00003 | .00007 | -.00029 | .00240 | 48.666 |
| #2 | .00055 | 50.990 | .00399 | .00227 | .00070 | -.00020 | 1.0142 | -.01179 | -.00001 | .00030 | -.00013 | .00240 | 49.349 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13654** | **.00201** | **-.01175** | **.00045** | **.00014** | **251.04** | **.00061** | **.00481** | **.00165** | **5.0661** | **.00203** | **-.00550** | **-.00997** |
| Stddev | .01194 | .00135 | .00148 | .00001 | .00018 | 1.34 | .00006 | .00068 | .00010 | .0118 | .00151 | .00102 | .00435 |
| %RSD | 8.7475 | 67.091 | 12.627 | 1.3330 | 126.24 | .53393 | 9.4849 | 14.061 | 6.3488 | .23282 | 74.695 | 18.558 | 43.616 |
| #1 | .12809 | .00106 | -.01280 | .00045 | .00027 | 250.09 | .00065 | .00529 | .00158 | 5.0578 | .00310 | -.00478 | -.01304 |
| #2 | .14498 | .00297 | -.01070 | .00044 | .00002 | 251.99 | .00057 | .00433 | .00172 | 5.0745 | .00096 | -.00622 | -.00689 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.02133** | **.00064** | **.00028** | **4.9104** | **-.00020** | **-.00086** | **10.118** | **.00121** | **.00104** | **.02819** |
| Stddev | .00930 | .00076 | .00005 | .0067 | .00020 | .00072 | .026 | .00034 | .00024 | .00263 |
| %RSD | 43.616 | 118.18 | 17.089 | .13593 | 99.980 | 83.739 | .26118 | 27.755 | 23.572 | 9.3142 |
| #1 | -.02791 | .00011 | .00025 | 4.9151 | -.00006 | -.00136 | 10.136 | .00097 | .00121 | .02633 |
| #2 | -.01475 | .00118 | .00031 | 4.9057 | -.00034 | -.00035 | 10.099 | .00145 | .00086 | .03004 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8897.9** | **110900.** | **9528.1** |
| Stddev | 11.6 | 299. | 5.8 |
| %RSD | .13006 | .26935 | .06061 |
| #1 | 8889.7 | 111110. | 9532.2 |
| #2 | 8906.1 | 110690. | 9524.0 |

Sample Name: CCV-2194461 Acquired: 8/14/2013 23:43:55 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50020** | **.53806** | **.98183** | **.50125** | **.48361** | **.49768** | **.00009** | **5.0031** | **.50697** | **.51154** | **.49606** | **.51063** | **2.5309** |
| Stddev | .00092 | .00013 | .00114 | .00001 | .00127 | .00031 | .00040 | .0032 | .00073 | .00078 | .00023 | .00051 | .0102 |
| %RSD | .18442 | .02416 | .11636 | .00170 | .26269 | .06270 | 440.19 | .06492 | .14378 | .15305 | .04728 | .09941 | .40264 |
| #1 | .49955 | .53797 | .98264 | .50125 | .48272 | .49746 | -.00019 | 5.0008 | .50749 | .51210 | .49623 | .51027 | 2.5381 |
| #2 | .50086 | .53816 | .98103 | .50126 | .48451 | .49790 | .00037 | 5.0054 | .50645 | .51099 | .49589 | .51099 | 2.5237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.914** | **.97740** | **19.474** | **.50639** | **.49103** | **5.2807** | **.50211** | **.97903** | **1.0199** | **-.00072** | **1.0290** | **.99747** | **4.9217** |
| Stddev | .128 | .00725 | .009 | .00013 | .00100 | .0317 | .00084 | .00103 | .0016 | .00074 | .0070 | .00241 | .0186 |
| %RSD | .25628 | .74182 | .04594 | .02612 | .20322 | .59992 | .16652 | .10492 | .15935 | 103.16 | .67788 | .24159 | .37730 |
| #1 | 49.824 | .97228 | 19.468 | .50649 | .49173 | 5.2583 | .50270 | .97976 | 1.0188 | -.00019 | 1.0339 | .99918 | 4.9348 |
| #2 | 50.005 | .98253 | 19.481 | .50630 | .49032 | 5.3031 | .50152 | .97831 | 1.0211 | -.00124 | 1.0240 | .99577 | 4.9085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.532** | **.99439** | **.50384** | **-.00537** | **.51012** | **1.0366** | **.04952** | **.50332** | **.49409** | **.50845** |
| Stddev | .040 | .00365 | .00230 | .00019 | .00013 | .0056 | .02645 | .00136 | .00161 | .00284 |
| %RSD | .37730 | .36689 | .45732 | 3.5383 | .02640 | .53515 | 53.419 | .27021 | .32566 | .55951 |
| #1 | 10.560 | .99697 | .50221 | -.00523 | .51022 | 1.0405 | .03081 | .50428 | .49523 | .51046 |
| #2 | 10.504 | .99181 | .50547 | -.00550 | .51003 | 1.0327 | .06822 | .50236 | .49295 | .50643 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9123.7** | **114810.** | **9652.7** |
| Stddev | .9 | 250. | 27.3 |
| %RSD | .01031 | .21780 | .28274 |
| #1 | 9123.0 | 114990. | 9672.0 |
| #2 | 9124.4 | 114630. | 9633.4 |

Sample Name: CCB Acquired: 8/14/2013 23:46:02 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | W **.01862** | **.00028** | **.00164** | **.00016** | **.00003** | **-.00016** | **-.00024** | **-.00010** | **.00031** | **-.00008** | **-.00098** |
| Stddev | .00003 | .00213 | .00039 | .00008 | .00026 | .00010 | .00024 | .00236 | .00019 | .00014 | .00000 | .00010 |
| %RSD | 4.6834 | 11.438 | 140.10 | 4.7332 | 160.97 | 315.52 | 145.71 | 977.21 | 198.79 | 44.354 | 5.5832 | 9.7525 |
| #1 | .00061 | .01711 | .00055 | .00170 | .00035 | .00010 | .00000 | .00142 | .00004 | .00021 | -.00009 | -.00105 |
| #2 | .00057 | .02013 | .00000 | .00159 | -.00002 | -.00004 | -.00033 | -.00191 | -.00023 | .00041 | -.00008 | -.00091 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .01800 | | | | | | | | | | |
| Low Limit | | -.01800 | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02106** | **.11384** | **-.00052** | **-.00118** | F **.00062** | **.00074** | W **.10588** | **-.00002** | **.00216** | **-.00042** | **.00539** | **.00147** |
| Stddev | .00170 | .02694 | .00027 | .00131 | .00000 | .00024 | .01380 | .00004 | .00109 | .00001 | .00106 | .00117 |
| %RSD | 8.0856 | 23.663 | 52.815 | 111.40 | .18255 | 31.551 | 13.031 | 181.08 | 50.581 | 1.6760 | 19.652 | 79.464 |
| #1 | .02226 | .13289 | -.00032 | -.00211 | .00062 | .00058 | .09612 | -.00006 | .00293 | -.00043 | .00464 | .00229 |
| #2 | .01985 | .09479 | -.00071 | -.00025 | .00062 | .00091 | .11564 | .00001 | .00139 | -.00042 | .00614 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00050 | | .09160 | | | | | |
| Low Limit | | | | | -.00050 | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00520** | **-.00032** | **-.00069** | **.00009** | **.00008** | **-.00002** | **.00053** | **-.00034** | **.01919** | **.00055** | **.00148** | **-.00171** |
| Stddev | .00458 | .00679 | .01454 | .00000 | .00009 | .00002 | .00029 | .00001 | .01039 | .00035 | .00033 | .00021 |
| %RSD | 88.112 | 2111.2 | 2111.2 | 1.7712 | 107.58 | 115.27 | 54.655 | 2.8330 | 54.164 | 64.711 | 22.164 | 12.141 |
| #1 | .00196 | .00448 | .00959 | .00009 | .00002 | .00000 | .00033 | -.00034 | .02654 | .00080 | .00125 | -.00156 |
| #2 | .00844 | -.00513 | -.01097 | .00009 | .00014 | -.00004 | .00074 | -.00033 | .01184 | .00030 | .00171 | -.00186 |
| Check ? | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00486 | | | | | | | | | | | |
| Low Limit | -.00486 | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9170.4** | **117440.** | **9530.3** |
| Stddev | 22.7 | 335. | 26.0 |
| %RSD | .24786 | .28555 | .27297 |
| #1 | 9154.3 | 117670. | 9548.7 |
| #2 | 9186.5 | 117200. | 9511.9 |

Sample Name: CCVL2197715 Acquired: 8/14/2013 23:48:17 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01022** | F **.13677** | **.01752** | **.09441** | **.00993** | **.00107** | **.10955** | **.21020** | **.00508** | **.01073** | **.01033** | **.01555** | F **.14166** |
| Stddev | .00038 | .00175 | .00170 | .00012 | .00031 | .00001 | .00225 | .00477 | .00005 | .00020 | .00016 | .00038 | .00255 |
| %RSD | 3.7108 | 1.2788 | 9.6866 | .12185 | 3.1656 | 1.0915 | 2.0561 | 2.2695 | .90536 | 1.8188 | 1.5879 | 2.4566 | 1.8014 |
| #1 | .00995 | .13801 | .01872 | .09433 | .00971 | .00107 | .10796 | .20682 | .00511 | .01087 | .01044 | .01582 | .13985 |
| #2 | .01049 | .13553 | .01632 | .09449 | .01015 | .00108 | .11114 | .21357 | .00505 | .01059 | .01021 | .01528 | .14346 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | .10000 | | | | | | | | | | | .10000 |
| Range | | 30.000% | | | | | | | | | | | 30.000% |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1559** | **.01017** | **.20212** | **.01173** | **.01953** | **1.1673** | **.04174** | **2.7983** | **.01008** | **.00277** | **.00941** | **.01891** | **.49241** |
| Stddev | .0504 | .00253 | .00130 | .00007 | .00033 | .0096 | .00016 | .0091 | .00037 | .00030 | .00161 | .00047 | .00458 |
| %RSD | 1.5970 | 24.868 | .64286 | .59604 | 1.6693 | .82057 | .37379 | .32474 | 3.7024 | 10.934 | 17.153 | 2.4711 | .93045 |
| #1 | 3.1203 | .00838 | .20120 | .01178 | .01976 | 1.1606 | .04185 | 2.8047 | .01034 | .00255 | .00827 | .01858 | .48917 |
| #2 | 3.1916 | .01196 | .20304 | .01168 | .01930 | 1.1741 | .04163 | 2.7919 | .00982 | .00298 | .01055 | .01924 | .49565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0538** | **.10113** | **.01029** | **.01465** | **.01033** | **.01528** | F **.08847** | **.01061** | **.02159** | **.01426** |
| Stddev | .0098 | .00070 | .00002 | .00161 | .00005 | .00043 | .04300 | .00030 | .00004 | .00060 |
| %RSD | .93045 | .69460 | .17236 | 10.965 | .46366 | 2.8121 | 48.599 | 2.7976 | .20480 | 4.1955 |
| #1 | 1.0468 | .10162 | .01031 | .01579 | .01037 | .01497 | .05807 | .01082 | .02163 | .01468 |
| #2 | 1.0607 | .10063 | .01028 | .01352 | .01030 | .01558 | .11887 | .01040 | .02156 | .01383 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9183.2** | **117410.** | **9600.0** |
| Stddev | 5.3 | 436. | 24.3 |
| %RSD | .05817 | .37149 | .25364 |
| #1 | 9187.0 | 117720. | 9582.8 |
| #2 | 9179.4 | 117100. | 9617.2 |

Sample Name: mb 280-186382/1-a  Acquired: 8/14/2013 23:50:34  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.03631** | **.00174** | **.00238** | **.00039** | **-.00001** | **.00012** | **.02838** | **.00002** | **.00011** |
| Stddev | .00038 | .00125 | .00001 | .00005 | .00035 | .00007 | .00205 | .00106 | .00006 | .00008 |
| %RSD | 289.12 | 3.4315 | .37152 | 1.9914 | 88.265 | 1189.6 | 1697.9 | 3.7168 | 258.60 | 75.459 |
| #1 | .00014 | .03543 | .00174 | .00234 | .00064 | -.00006 | .00157 | .02913 | .00007 | .00005 |
| #2 | -.00040 | .03719 | .00175 | .00241 | .00015 | .00005 | -.00133 | .02764 | -.00002 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **-.00004** | W **.05209** | **.12589** | **-.00167** | **.01118** | **.00150** | **.00011** | **.14305** | **.00021** |
| Stddev | .00012 | .00009 | .00346 | .00127 | .00255 | .00017 | .00002 | .00012 | .01313 | .00011 |
| %RSD | 141.56 | 236.56 | 6.6366 | 1.0086 | 153.37 | 1.5158 | 1.4177 | 107.32 | 9.1788 | 50.785 |
| #1 | .00017 | -.00010 | .04965 | .12499 | -.00347 | .01106 | .00149 | .00020 | .15233 | .00014 |
| #2 | .00000 | .00003 | .05454 | .12678 | .00014 | .01130 | .00152 | .00003 | .13377 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | | | | | |
| Low Limit | | | -.05000 | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00478** | **.00086** | **.01522** | **-.00106** | **.00232** | **.02366** | **.05064** | **.00856** | **.00009** | **.00003** |
| Stddev | .00247 | .00099 | .00128 | .00171 | .00158 | .00450 | .00963 | .00011 | .00009 | .00007 |
| %RSD | 51.650 | 115.18 | 8.4197 | 161.45 | 68.181 | 19.025 | 19.025 | 1.2325 | 102.03 | 282.37 |
| #1 | .00304 | .00155 | .01431 | -.00227 | .00120 | .02685 | .05745 | .00864 | .00002 | -.00003 |
| #2 | .00653 | .00016 | .01612 | .00015 | .00344 | .02048 | .04383 | .00849 | .00015 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **-.00188** | **.04327** | **.00103** | **.00318** | **-.00184** |
| Stddev | .00025 | .00093 | .00850 | .00029 | .00009 | .00105 |
| %RSD | 36.603 | 49.240 | 19.639 | 28.588 | 2.9894 | 57.440 |
| #1 | .00085 | -.00123 | .04928 | .00123 | .00311 | -.00109 |
| #2 | .00050 | -.00254 | .03726 | .00082 | .00324 | -.00258 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9156.4** | **117270.** | **9596.3** |
| Stddev | 50.8 | 448. | 72.8 |
| %RSD | .55513 | .38205 | .75850 |
| #1 | 9120.4 | 117590. | 9544.9 |
| #2 | 9192.3 | 116960. | 9647.8 |

Sample Name: lcs 280-186382/2-a Acquired: 8/14/2013 23:52:49 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04814** | **1.9920** | **.99883** | **.93951** | **1.9442** | **.04995** | **2.0342** | **49.584** | **.10512** | **.49988** |
| Stddev | .00076 | .0012 | .00212 | .00019 | .0094 | .00035 | .0022 | .294 | .00007 | .00006 |
| %RSD | 1.5876 | .05833 | .21215 | .02062 | .48159 | .70752 | .10825 | .59198 | .07104 | .01239 |
| #1 | .04760 | 1.9912 | .99734 | .93964 | 1.9375 | .04970 | 2.0358 | 49.377 | .10507 | .49984 |
| #2 | .04869 | 1.9928 | 1.0003 | .93937 | 1.9508 | .05020 | 2.0327 | 49.792 | .10517 | .49992 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19983** | **.25555** | **1.0313** | **50.118** | **.98039** | **47.380** | **.50329** | **.96425** | **49.796** | **.48992** |
| Stddev | .00033 | .00045 | .0046 | .315 | .00482 | .157 | .00083 | .00065 | .743 | .00038 |
| %RSD | .16630 | .17582 | .44476 | .62947 | .49208 | .33058 | .16549 | .06749 | 1.4925 | .07746 |
| #1 | .20007 | .25523 | 1.0280 | 49.895 | .97698 | 47.269 | .50270 | .96471 | 49.271 | .49018 |
| #2 | .19960 | .25586 | 1.0345 | 50.341 | .98380 | 47.490 | .50388 | .96379 | 50.322 | .48965 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.8292** | **.49707** | **.00122** | **.47016** | **1.9193** | **2.7660** | **5.9193** | **1.8927** | **1.0172** | **.96850** |
| Stddev | .0101 | .00073 | .00213 | .00169 | .0075 | .0014 | .0031 | .0058 | .0062 | .00220 |
| %RSD | .10238 | .14659 | 173.86 | .36005 | .38830 | .05148 | .05148 | .30877 | .60665 | .22696 |
| #1 | 9.8364 | .49758 | .00273 | .46896 | 1.9246 | 2.7650 | 5.9172 | 1.8969 | 1.0129 | .97005 |
| #2 | 9.8221 | .49655 | -.00028 | .47135 | 1.9140 | 2.7671 | 5.9215 | 1.8886 | 1.0216 | .96694 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0009** | **1.9624** | **2.1098** | **.51253** | **.48277** | **.50312** |
| Stddev | .0019 | .0108 | .0053 | .00150 | .00236 | .00257 |
| %RSD | .19208 | .55062 | .25047 | .29178 | .48941 | .51153 |
| #1 | .99958 | 1.9700 | 2.1060 | .51147 | .48110 | .50130 |
| #2 | 1.0023 | 1.9547 | 2.1135 | .51358 | .48444 | .50494 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8777.7** | **111020.** | **9580.8** |
| Stddev | 7.1 | 530. | 43.1 |
| %RSD | .08100 | .47730 | .44992 |
| #1 | 8772.7 | 111400. | 9611.3 |
| #2 | 8782.7 | 110650. | 9550.3 |

Sample Name: 400-78272-a-1-d  Acquired: 8/14/2013 23:54:56  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00399** | **265.69** | **.13374** | **.05842** | **1.4773** | **.01347** | **-.00391** | **40.389** | **.00353** | **.17152** |
| Stddev | .00006 | .98 | .00114 | .00058 | .0044 | .00001 | .00069 | .117 | .00012 | .00026 |
| %RSD | 1.4144 | .36925 | .85050 | .99332 | .29852 | .09158 | 17.567 | .29086 | 3.3513 | .15422 |
| #1 | -.00403 | 265.00 | .13454 | .05883 | 1.4741 | .01348 | -.00342 | 40.306 | .00344 | .17170 |
| #2 | -.00395 | 266.38 | .13293 | .05800 | 1.4804 | .01346 | -.00439 | 40.473 | .00361 | .17133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35107** | **.23629** | **336.22** | **21.788** | **.21926** | **27.091** | W **14.984** | **.00951** | **1.2801** | **.16670** |
| Stddev | .00014 | .00013 | .95 | .077 | .00226 | .053 | .140 | .00066 | .0055 | .00038 |
| %RSD | .04059 | .05624 | .28227 | .35421 | 1.0302 | .19448 | .93567 | 6.9819 | .43134 | .22925 |
| #1 | .35117 | .23620 | 335.55 | 21.734 | .22086 | 27.054 | 14.885 | .00904 | 1.2762 | .16643 |
| #2 | .35097 | .23638 | 336.89 | 21.843 | .21766 | 27.128 | 15.083 | .00998 | 1.2840 | .16697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.400** | **.35942** | **9.2557** | **.00202** | **.00640** | **3.0127** | **6.4472** | **.01766** | **.28804** | **.08068** |
| Stddev | .013 | .00050 | .0022 | .00048 | .00041 | .0295 | .0630 | .00056 | .00118 | .00222 |
| %RSD | .10464 | .13981 | .02375 | 23.623 | 6.3625 | .97779 | .97779 | 3.1821 | .41042 | 2.7477 |
| #1 | 12.409 | .35906 | 9.2573 | .00236 | .00669 | 2.9919 | 6.4027 | .01806 | .28720 | .08225 |
| #2 | 12.391 | .35977 | 9.2542 | .00169 | .00611 | 3.0336 | 6.4918 | .01726 | .28887 | .07911 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7369** | **-.00691** | F **-.68125** | **.65431** | **.70387** | **.04729** |
| Stddev | .0060 | .00118 | .00618 | .00015 | .00096 | .00067 |
| %RSD | .34578 | 17.011 | .90761 | .02284 | .13668 | 1.4237 |
| #1 | 1.7326 | -.00774 | -.67688 | .65421 | .70319 | .04776 |
| #2 | 1.7411 | -.00608 | -.68563 | .65442 | .70455 | .04681 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10226.** | **124560.** | **11202.** |
| Stddev | 14. | 300. | 28. |
| %RSD | .13821 | .24060 | .24791 |
| #1 | 10216. | 124770. | 11222. |
| #2 | 10236. | 124350. | 11183. |

Sample Name: 400-78272-a-2-d  Acquired: 8/14/2013 23:57:17  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00263** | **218.45** | **.07870** | **.04399** | **1.0760** | **.00883** | **-.00437** | **39.179** | **.00261** | **.12323** |
| Stddev | .00012 | .59 | .00162 | .00004 | .0012 | .00007 | .00229 | .091 | .00004 | .00025 |
| %RSD | 4.5766 | .27081 | 2.0527 | .09480 | .11552 | .81430 | 52.296 | .23211 | 1.5286 | .19973 |
| #1 | -.00255 | 218.03 | .07756 | .04396 | 1.0751 | .00878 | -.00275 | 39.115 | .00264 | .12306 |
| #2 | -.00272 | 218.87 | .07985 | .04402 | 1.0769 | .00889 | -.00599 | 39.244 | .00258 | .12341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28572** | **.16307** | **240.16** | **14.918** | **.19170** | **24.996** | **8.0338** | **.00661** | **1.9033** | **.11923** |
| Stddev | .00011 | .00025 | .52 | .021 | .00063 | .131 | .0203 | .00030 | .0043 | .00016 |
| %RSD | .03933 | .15294 | .21852 | .14372 | .32780 | .52377 | .25295 | 4.6084 | .22689 | .13179 |
| #1 | .28580 | .16289 | 239.79 | 14.903 | .19214 | 24.904 | 8.0482 | .00639 | 1.9002 | .11912 |
| #2 | .28564 | .16324 | 240.53 | 14.933 | .19125 | 25.089 | 8.0194 | .00683 | 1.9064 | .11934 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.7346** | **.26051** | **7.6854** | **.00086** | **.00256** | **3.6487** | **7.8082** | **.01397** | **.28211** | **.06683** |
| Stddev | .0037 | .00219 | .0078 | .00136 | .00183 | .0394 | .0844 | .00113 | .00144 | .00123 |
| %RSD | .04296 | .84043 | .10130 | 157.52 | 71.706 | 1.0805 | 1.0805 | 8.1146 | .51203 | 1.8424 |
| #1 | 8.7319 | .26206 | 7.6909 | .00182 | .00126 | 3.6765 | 7.8678 | .01317 | .28109 | .06596 |
| #2 | 8.7372 | .25896 | 7.6799 | -.00010 | .00385 | 3.6208 | 7.7485 | .01477 | .28313 | .06770 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6552** | **-.00518** | F **-.53855** | **.53584** | **.52223** | **.03841** |
| Stddev | .0163 | .00085 | .02095 | .00019 | .00184 | .00277 |
| %RSD | .98712 | 16.416 | 3.8896 | .03513 | .35215 | 7.2076 |
| #1 | 1.6436 | -.00458 | -.52374 | .53571 | .52093 | .04037 |
| #2 | 1.6667 | -.00578 | -.55336 | .53598 | .52353 | .03646 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9860.0** | **121070.** | **10762.** |
| Stddev | 22.4 | 280. | 113. |
| %RSD | .22689 | .23120 | 1.0514 |
| #1 | 9875.8 | 121270. | 10682. |
| #2 | 9844.2 | 120880. | 10842. |

Sample Name: 400-78272-a-3-d  Acquired: 8/14/2013 23:59:38  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00224** | **213.35** | **.14229** | **.04178** | **1.1616** | **.01014** | **-.00389** | **46.781** | **.00404** | **.13022** |
| Stddev | .00014 | .87 | .00232 | .00002 | .0027 | .00001 | .00368 | .136 | .00007 | .00033 |
| %RSD | 6.2436 | .40807 | 1.6331 | .03894 | .23147 | .13049 | 94.507 | .29109 | 1.7989 | .25363 |
| #1 | -.00234 | 212.73 | .14394 | .04177 | 1.1597 | .01015 | -.00129 | 46.685 | .00399 | .13046 |
| #2 | -.00214 | 213.97 | .14065 | .04179 | 1.1635 | .01013 | -.00650 | 46.877 | .00409 | .12999 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31397** | **.14884** | **244.58** | **14.419** | **.19335** | **23.263** | W **10.462** | **.00762** | **1.3708** | **.11289** |
| Stddev | .00040 | .00032 | .03 | .003 | .00301 | .015 | .032 | .00021 | .0016 | .00051 |
| %RSD | .12623 | .21657 | .01065 | .01950 | 1.5553 | .06262 | .30133 | 2.8176 | .11905 | .45596 |
| #1 | .31369 | .14861 | 244.56 | 14.417 | .19122 | 23.273 | 10.485 | .00778 | 1.3720 | .11325 |
| #2 | .31425 | .14907 | 244.60 | 14.421 | .19547 | 23.252 | 10.440 | .00747 | 1.3697 | .11252 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.429** | **.68369** | **9.5463** | **.00283** | **.00549** | **2.0421** | **4.3700** | **.01447** | **.33675** | **.06093** |
| Stddev | .004 | .00228 | .0029 | .00102 | .00096 | .1038 | .2222 | .00041 | .00088 | .00034 |
| %RSD | .03691 | .33280 | .02990 | 35.937 | 17.527 | 5.0841 | 5.0841 | 2.8304 | .26005 | .55381 |
| #1 | 11.426 | .68530 | 9.5443 | .00211 | .00481 | 2.1155 | 4.5271 | .01418 | .33613 | .06116 |
| #2 | 11.432 | .68208 | 9.5483 | .00354 | .00617 | 1.9686 | 4.2129 | .01476 | .33737 | .06069 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3004** | **-.00516** | F **-.51294** | **.54780** | **.59937** | **.03248** |
| Stddev | .0000 | .00058 | .00729 | .00110 | .00121 | .00064 |
| %RSD | .00033 | 11.302 | 1.4212 | .20040 | .20234 | 1.9803 |
| #1 | 1.3004 | -.00557 | -.50778 | .54858 | .59851 | .03293 |
| #2 | 1.3004 | -.00475 | -.51809 | .54703 | .60023 | .03202 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9928.9** | **121030.** | **10767.** |
| Stddev | 13.6 | 129. | 78. |
| %RSD | .13731 | .10651 | .72420 |
| #1 | 9919.3 | 121120. | 10822. |
| #2 | 9938.6 | 120930. | 10712. |

Sample Name: 400-78272-a-4-d  Acquired: 8/15/2013 0:02:00  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00237** | **309.97** | **.11815** | **.05896** | **1.4068** | **.01284** | **-.00138** | **48.601** | **.00360** | **.25377** |
| Stddev | .00057 | 1.31 | .00172 | .00037 | .0066 | .00015 | .00091 | .265 | .00016 | .00160 |
| %RSD | 23.956 | .42220 | 1.4578 | .63237 | .47280 | 1.1957 | 66.336 | .54533 | 4.4302 | .63053 |
| #1 | -.00277 | 309.04 | .11694 | .05922 | 1.4021 | .01273 | -.00073 | 48.414 | .00349 | .25490 |
| #2 | -.00197 | 310.89 | .11937 | .05869 | 1.4115 | .01295 | -.00202 | 48.789 | .00371 | .25264 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42263** | **.22898** | **423.94** | **24.320** | **.23989** | **36.225** | W **13.268** | **.00779** | **1.5689** | **.20438** |
| Stddev | .00002 | .00033 | 2.91 | .092 | .00082 | .014 | .140 | .00024 | .0075 | .00104 |
| %RSD | .00518 | .14394 | .68593 | .37733 | .34047 | .03825 | 1.0524 | 3.0567 | .47724 | .50838 |
| #1 | .42261 | .22921 | 421.88 | 24.255 | .23931 | 36.235 | 13.367 | .00796 | 1.5636 | .20511 |
| #2 | .42264 | .22875 | 425.99 | 24.385 | .24047 | 36.215 | 13.169 | .00762 | 1.5742 | .20364 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **13.622** | **.30998** | **9.8800** | **.00379** | **.00354** | **2.0922** | **4.4773** | **.01668** | **.35815** | **.08349** |
| Stddev | .003 | .00219 | .0018 | .00146 | .00076 | .0094 | .0200 | .00096 | .00114 | .00254 |
| %RSD | .02284 | .70563 | .01846 | 38.446 | 21.343 | .44781 | .44781 | 5.7561 | .31936 | 3.0404 |
| #1 | 13.624 | .31153 | 9.8813 | .00276 | .00301 | 2.0988 | 4.4915 | .01736 | .35734 | .08528 |
| #2 | 13.620 | .30843 | 9.8787 | .00482 | .00408 | 2.0856 | 4.4632 | .01600 | .35895 | .08169 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.9518** | **-.00963** | F **-.62362** | **.78142** | **.73434** | **.07505** |
| Stddev | .0015 | .00032 | .03261 | .00066 | .00075 | .00140 |
| %RSD | .05008 | 3.3695 | 5.2285 | .08484 | .10158 | 1.8614 |
| #1 | 2.9507 | -.00940 | -.60057 | .78095 | .73381 | .07406 |
| #2 | 2.9528 | -.00986 | -.64668 | .78189 | .73487 | .07604 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10074.** | **122880.** | **11082.** |
| Stddev | 10. | 236. | 10. |
| %RSD | .09844 | .19166 | .08702 |
| #1 | 10067. | 123050. | 11076. |
| #2 | 10081. | 122720. | 11089. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 0:04:20 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .00447 | ^F ***** | k .00145 | k .00282 | k .00031 | k -.00005 | k .97128 | k .00475 | k -.00065 | k .00084 | k -.00084 | k .01093 | F 18.451 |
| Stddev | .00320 | ----- | .00034 | .00065 | .00028 | .00006 | .03476 | .03885 | .00091 | .00089 | .00023 | .01346 | 11.678 |
| %RSD | 71.613 | ----- | 23.124 | 22.922 | 91.900 | 121.55 | 3.5785 | 818.55 | 141.16 | 106.80 | 27.168 | 123.20 | 63.294 |
| #1 | .00221 | 10.831 | .00121 | .00327 | .00050 | -.00001 | .99586 | .03221 | .00000 | .00020 | -.00068 | .00141 | 10.193 |
| #2 | k .00673 | ^ ----- | k .00169 | k .00236 | k .00011 | k -.00009 | k .94670 | k -.02272 | k -.00129 | k .00147 | k -.00100 | k .02045 | 26.709 |
| Check ? | None | Chk Fail | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Fail |
| Value | | 50.000 | | | | | | | | | | | 50.000 |
| Range | | -10.490% | | | | | | | | | | | -10.490% |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .13803 | k -.00088 | k -.15107 | k .00010 | k -.00082 | ^F ***** | k .00243 | k .00611 | k .00236 | k 5.0491 | k .00292 | k -.00108 | k .05226 |
| Stddev | .02278 | .00183 | .19399 | .00114 | .00112 | ----- | .00060 | .00080 | .00457 | .0090 | .00143 | .00125 | .03101 |
| %RSD | 16.504 | 207.32 | 128.41 | 1130.5 | 136.80 | ----- | 24.577 | 13.166 | 193.47 | .17861 | 48.749 | 115.60 | 59.346 |
| #1 | .12192 | -.00217 | -.01390 | .00091 | -.00003 | 52.616 | .00201 | .00668 | -.00087 | 5.0427 | .00393 | -.00197 | .07419 |
| #2 | .15413 | k .00041 | k -.28824 | k -.00071 | k -.00161 | ^ ----- | k .00285 | k .00554 | k .00560 | k 5.0554 | k .00192 | k -.00020 | k .03033 |
| Check ? | None | None | None | None | None | Chk Fail | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | 250.00 | | | | | | | |
| Range | | | | | | -10.490% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .11184 | k .00048 | .00020 | k 5.0683 | k .00530 | k -.00110 | k 9.9905 | k .00160 | k .00231 | k -.02046 |
| Stddev | .06637 | .00055 | .00012 | .1592 | .00663 | .00156 | .0227 | .00157 | .00057 | .23611 |
| %RSD | 59.346 | 115.14 | 57.305 | 3.1401 | 125.09 | 141.15 | .22745 | 98.129 | 24.838 | 1154.3 |
| #1 | .15877 | .00009 | .00012 | 4.9558 | .00061 | .00000 | 9.9744 | .00049 | .00191 | -.18741 |
| #2 | k .06491 | k .00087 | .00029 | k 5.1809 | k .00999 | k -.00221 | k 10.007 | k .00271 | k .00272 | k .14650 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 9124.0 | 113230. | 11797. |
| Stddev | 37.8 | 757. | 1015. |
| %RSD | .41375 | .66877 | 8.6007 |
| #1 | 9150.7 | 113770. | 12514. |
| #2 | 9097.3 | 112700. | 11079. |

Sample Name: CCV-2194461 Acquired: 8/15/2013 0:07:09 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49951** | **.53420** | **.97927** | **.49850** | **.47410** | **.49611** | **.00186** | **4.9674** | **.50648** | **.51333** | **.49332** | **.51178** | **2.5024** |
| Stddev | .00084 | .00146 | .00406 | .00037 | .00044 | .00013 | .00172 | .0058 | .00004 | .00038 | .00032 | .00145 | .0105 |
| %RSD | .16907 | .27271 | .41488 | .07449 | .09293 | .02683 | 92.547 | .11605 | .00851 | .07500 | .06442 | .28261 | .41898 |
| #1 | .50010 | .53523 | .98215 | .49824 | .47378 | .49601 | .00064 | 4.9633 | .50651 | .51306 | .49310 | .51280 | 2.4950 |
| #2 | .49891 | .53317 | .97640 | .49876 | .47441 | .49620 | .00308 | 4.9715 | .50645 | .51360 | .49354 | .51076 | 2.5098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.634** | **.97091** | **19.370** | **.50914** | **.48692** | **5.2025** | **.49945** | **.96645** | **1.0138** | **.00135** | **1.0296** | **.98840** | **4.9168** |
| Stddev | .131 | .00310 | .032 | .00050 | .00073 | .0239 | .00085 | .00255 | .0024 | .00104 | .0006 | .00549 | .0343 |
| %RSD | .26305 | .31881 | .16659 | .09834 | .14994 | .45888 | .17047 | .26397 | .23443 | 76.642 | .05732 | .55555 | .69741 |
| #1 | 49.542 | .96872 | 19.393 | .50949 | .48640 | 5.1856 | .49885 | .96826 | 1.0122 | .00208 | 1.0300 | .98451 | 4.8925 |
| #2 | 49.727 | .97310 | 19.348 | .50878 | .48743 | 5.2194 | .50005 | .96465 | 1.0155 | .00062 | 1.0292 | .99228 | 4.9410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.522** | **.97638** | **.50273** | **-.00473** | **.51477** | **1.0369** | **.00333** | **.50489** | **.48909** | **.51081** |
| Stddev | .073 | .00306 | .00071 | .00129 | .00119 | .0047 | .00228 | .00187 | .00097 | .00027 |
| %RSD | .69741 | .31336 | .14025 | 27.274 | .23165 | .45695 | 68.501 | .37006 | .19779 | .05266 |
| #1 | 10.470 | .97855 | .50223 | -.00564 | .51393 | 1.0336 | .00494 | .50621 | .48841 | .51062 |
| #2 | 10.574 | .97422 | .50323 | -.00382 | .51561 | 1.0403 | .00172 | .50357 | .48978 | .51100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9266.3** | **116280.** | **9868.7** |
| Stddev | 11.4 | 317. | 81.6 |
| %RSD | .12336 | .27235 | .82645 |
| #1 | 9274.4 | 116060. | 9926.3 |
| #2 | 9258.2 | 116500. | 9811.0 |

Sample Name: CCB Acquired: 8/15/2013 0:09:17 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00928** | **.00041** | **.00211** | **-.00032** | **-.00002** | **.00120** | **-.00419** | **-.00002** | **.00000** | **-.00013** | **-.00096** | **.00339** |
| Stddev | .00023 | .00045 | .00128 | .00030 | .00019 | .00002 | .00135 | .00225 | .00012 | .00014 | .00001 | .00024 | .00216 |
| %RSD | 202.18 | 4.8157 | 311.67 | 14.191 | 57.961 | 85.100 | 112.24 | 53.565 | 678.19 | 3621.7 | 11.126 | 24.419 | 63.707 |
| #1 | .00005 | .00896 | .00131 | .00232 | -.00046 | -.00001 | .00025 | -.00578 | .00007 | .00010 | -.00012 | -.00113 | .00492 |
| #2 | -.00028 | .00959 | -.00049 | .00190 | -.00019 | -.00003 | .00215 | -.00260 | -.00010 | -.00009 | -.00014 | -.00080 | .00186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10280** | **-.00029** | **.00157** | **.00014** | **.00054** | **.06372** | **-.00031** | **.00186** | **-.00048** | **.00154** | **.00255** | **.00180** | **-.00382** |
| Stddev | .02062 | .00305 | .00157 | .00004 | .00027 | .00991 | .00014 | .00053 | .00010 | .00144 | .00244 | .00016 | .00618 |
| %RSD | 20.056 | 1050.0 | 99.804 | 25.601 | 49.969 | 15.561 | 45.049 | 28.294 | 20.622 | 93.828 | 96.012 | 9.1517 | 161.79 |
| #1 | .08822 | -.00245 | .00269 | .00017 | .00035 | .07073 | -.00021 | .00223 | -.00041 | .00256 | .00082 | .00168 | -.00819 |
| #2 | .11737 | .00187 | .00046 | .00012 | .00074 | .05670 | -.00040 | .00149 | -.00055 | .00052 | .00427 | .00191 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00817** | **.00050** | **.00008** | **.00183** | **.00020** | **-.00106** | **.03204** | **.00061** | **.00130** | **-.00229** |
| Stddev | .01322 | .00001 | .00008 | .00137 | .00019 | .00074 | .01364 | .00036 | .00002 | .00137 |
| %RSD | 161.79 | 2.3042 | 95.068 | 75.126 | 97.235 | 69.430 | 42.571 | 59.040 | 1.5590 | 59.670 |
| #1 | -.01752 | .00049 | .00014 | .00280 | .00006 | -.00159 | .04169 | .00086 | .00131 | -.00132 |
| #2 | .00118 | .00051 | .00003 | .00086 | .00034 | -.00054 | .02240 | .00035 | .00128 | -.00326 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9279.0** | **118060.** | **9690.9** |
| Stddev | 24.7 | 309. | 63.1 |
| %RSD | .26598 | .26137 | .65123 |
| #1 | 9296.5 | 117840. | 9646.2 |
| #2 | 9261.5 | 118280. | 9735.5 |

Sample Name: CCVL2197715 Acquired: 8/15/2013 0:11:35 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01054** | **.12156** | **.01648** | **.09910** | **.01001** | **.00101** | **.11595** | **.20667** | **.00543** | **.01114** | **.01035** | **.01535** | **.11831** |
| Stddev | .00039 | .00000 | .00324 | .00053 | .00012 | .00006 | .00306 | .00300 | .00018 | .00029 | .00014 | .00005 | .00094 |
| %RSD | 3.7429 | .00097 | 19.646 | .53084 | 1.1548 | 5.5861 | 2.6417 | 1.4517 | 3.4021 | 2.5820 | 1.3509 | .32416 | .79816 |
| #1 | .01026 | .12156 | .01876 | .09873 | .01009 | .00097 | .11812 | .20879 | .00530 | .01134 | .01045 | .01532 | .11764 |
| #2 | .01082 | .12156 | .01419 | .09947 | .00993 | .00105 | .11378 | .20455 | .00556 | .01094 | .01025 | .01539 | .11898 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2064** | **.01099** | **.20843** | **.01117** | **.01989** | **1.1632** | **.04267** | **2.8817** | **.01017** | **.00274** | **.01066** | **.01573** | **.49116** |
| Stddev | .0892 | .00063 | .00051 | .00004 | .00037 | .0010 | .00022 | .0139 | .00049 | .00098 | .00190 | .00094 | .00942 |
| %RSD | 2.7817 | 5.7124 | .24447 | .39540 | 1.8667 | .08983 | .50772 | .48237 | 4.7771 | 35.779 | 17.847 | 5.9694 | 1.9172 |
| #1 | 3.1434 | .01144 | .20879 | .01121 | .02016 | 1.1639 | .04282 | 2.8915 | .00983 | .00204 | .01200 | .01507 | .48450 |
| #2 | 3.2695 | .01055 | .20807 | .01114 | .01963 | 1.1625 | .04251 | 2.8718 | .01051 | .00343 | .00931 | .01639 | .49782 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0511** | **.10320** | **.01052** | **.01545** | **.01015** | **.01572** | F **.08037** | **.01104** | **.02162** | **.01403** |
| Stddev | .0202 | .00053 | .00012 | .00291 | .00006 | .00020 | .02135 | .00032 | .00032 | .00060 |
| %RSD | 1.9172 | .51642 | 1.1113 | 18.831 | .59310 | 1.2783 | 26.565 | 2.8670 | 1.4790 | 4.2474 |
| #1 | 1.0368 | .10283 | .01043 | .01339 | .01011 | .01586 | .09547 | .01081 | .02139 | .01361 |
| #2 | 1.0653 | .10358 | .01060 | .01750 | .01019 | .01558 | .06527 | .01126 | .02184 | .01445 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9340.2** | **119080.** | **9810.1** |
| Stddev | 25.1 | 387. | 66.3 |
| %RSD | .26894 | .32519 | .67633 |
| #1 | 9322.4 | 118800. | 9857.0 |
| #2 | 9358.0 | 119350. | 9763.2 |

Sample Name: 400-78272-a-5-f  Acquired: 8/15/2013 0:13:53  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00154** | **238.71** | **.08320** | **.04127** | **1.0686** | **.00930** | **-.00290** | **43.917** | **.00246** | **.12851** |
| Stddev | .00049 | 2.69 | .00395 | .00044 | .0080 | .00005 | .00307 | .443 | .00009 | .00005 |
| %RSD | 31.997 | 1.1289 | 4.7434 | 1.0740 | .74503 | .56423 | 105.95 | 1.0081 | 3.4949 | .03996 |
| #1 | -.00119 | 236.81 | .08041 | .04158 | 1.0629 | .00926 | -.00073 | 43.604 | .00252 | .12854 |
| #2 | -.00189 | 240.62 | .08599 | .04095 | 1.0742 | .00933 | -.00508 | 44.230 | .00240 | .12847 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28769** | **.24613** | **234.63** | **15.302** | **.18333** | **22.468** | **8.8257** | **.00728** | **4.2310** | **.13367** |
| Stddev | .00041 | .00086 | 1.48 | .122 | .00104 | .139 | .0804 | .00000 | .0399 | .00056 |
| %RSD | .14291 | .34849 | .63027 | .79631 | .56540 | .61722 | .91071 | .00573 | .94432 | .41955 |
| #1 | .28798 | .24552 | 233.59 | 15.215 | .18260 | 22.370 | 8.7689 | .00728 | 4.2028 | .13327 |
| #2 | .28740 | .24673 | 235.68 | 15.388 | .18406 | 22.566 | 8.8826 | .00728 | 4.2593 | .13406 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.314** | **.27368** | **7.7478** | **.00147** | **.00419** | **2.3623** | **5.0552** | **.01602** | **.28440** | **.05834** |
| Stddev | .015 | .00098 | .0056 | .00021 | .00152 | .0290 | .0620 | .00034 | .00193 | .00050 |
| %RSD | .14269 | .35933 | .07219 | 14.289 | 36.417 | 1.2256 | 1.2256 | 2.1254 | .67837 | .85202 |
| #1 | 10.325 | .27437 | 7.7439 | .00132 | .00311 | 2.3827 | 5.0990 | .01626 | .28304 | .05799 |
| #2 | 10.304 | .27298 | 7.7518 | .00162 | .00527 | 2.3418 | 5.0114 | .01578 | .28576 | .05869 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6580** | **-.00549** | F **-.45790** | **.56326** | **.53478** | **.03229** |
| Stddev | .0120 | .00002 | .01639 | .00299 | .00204 | .00158 |
| %RSD | .72273 | .36028 | 3.5799 | .53147 | .38207 | 4.9018 |
| #1 | 1.6495 | -.00550 | -.44631 | .56115 | .53333 | .03341 |
| #2 | 1.6665 | -.00548 | -.46949 | .56538 | .53622 | .03117 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9831.1** | **120290.** | **10690.** |
| Stddev | 26.5 | 503. | 104. |
| %RSD | .26933 | .41785 | .97160 |
| #1 | 9812.3 | 120640. | 10763. |
| #2 | 9849.8 | 119930. | 10616. |

Sample Name: 400-78272-a-5-f SD@5 Acquired: 8/15/2013 0:16:15 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **52.121** | **.02051** | **.01097** | **.23166** | **.00205** | **-.00071** | **9.6962** | **.00055** | **.02951** |
| Stddev | .00042 | .156 | .00221 | .00010 | .00093 | .00000 | .00084 | .0253 | .00007 | .00017 |
| %RSD | 77.950 | .30014 | 10.760 | .93168 | .40281 | .24366 | 118.30 | .26095 | 12.378 | .58570 |
| #1 | -.00084 | 52.010 | .02207 | .01104 | .23232 | .00205 | -.00130 | 9.6783 | .00050 | .02939 |
| #2 | -.00024 | 52.231 | .01895 | .01090 | .23100 | .00205 | -.00012 | 9.7141 | .00060 | .02963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06508** | **.05356** | **52.688** | **3.4349** | **.03893** | **5.1158** | **2.0237** | **.00137** | **1.0010** | **.03032** |
| Stddev | .00002 | .00009 | .216 | .0067 | .00056 | .0004 | .0028 | .00013 | .0182 | .00021 |
| %RSD | .03735 | .17054 | .41079 | .19635 | 1.4423 | .00742 | .13868 | 9.5042 | 1.8236 | .70345 |
| #1 | .06506 | .05350 | 52.535 | 3.4396 | .03854 | 5.1160 | 2.0217 | .00128 | .98807 | .03017 |
| #2 | .06509 | .05363 | 52.841 | 3.4301 | .03933 | 5.1155 | 2.0257 | .00146 | 1.0139 | .03047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3211** | **.06455** | **1.7037** | **.00128** | **.00119** | **.55134** | **1.1799** | **.00355** | **.06232** | **.01353** |
| Stddev | .0000 | .00007 | .0025 | .00117 | .00655 | .03636 | .0778 | .00032 | .00025 | .00197 |
| %RSD | .00146 | .10510 | .14468 | 91.039 | 547.83 | 6.5955 | 6.5955 | 8.9769 | .40424 | 14.529 |
| #1 | 2.3211 | .06459 | 1.7020 | .00046 | .00582 | .57705 | 1.2349 | .00333 | .06214 | .01492 |
| #2 | 2.3212 | .06450 | 1.7055 | .00211 | -.00343 | .52562 | 1.1248 | .00378 | .06250 | .01214 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36311** | **-.00200** | W **-.07881** | **.12358** | **.12299** | **.00700** |
| Stddev | .00101 | .00014 | .03464 | .00013 | .00101 | .00168 |
| %RSD | .27863 | 7.0332 | 43.960 | .10603 | .81778 | 24.046 |
| #1 | .36383 | -.00190 | -.10331 | .12349 | .12228 | .00581 |
| #2 | .36240 | -.00210 | -.05431 | .12367 | .12370 | .00819 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9604.4** | **118820.** | **10151.** |
| Stddev | 9.6 | 321. | 16. |
| %RSD | .09950 | .27024 | .15413 |
| #1 | 9611.2 | 119040. | 10163. |
| #2 | 9597.7 | 118590. | 10140. |

Sample Name: 400-78272-a-5-n ms  Acquired: 8/15/2013 0:18:30  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04294** | **340.87** | **.93801** | **.86967** | **3.1557** | **.05556** | F **1.8016** | **92.754** | **.09605** | **.57036** |
| Stddev | .00002 | 3.66 | .00170 | .00003 | .0349 | .00058 | .0008 | 1.035 | .00042 | .00006 |
| %RSD | .04145 | 1.0731 | .18116 | .00398 | 1.1067 | 1.0373 | .04462 | 1.1156 | .44018 | .01107 |
| #1 | .04295 | 338.28 | .93921 | .86970 | 3.1310 | .05516 | 1.8010 | 92.022 | .09575 | .57040 |
| #2 | .04293 | 343.45 | .93680 | .86965 | 3.1804 | .05597 | 1.8021 | 93.485 | .09635 | .57031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53449** | **.50336** | **254.16** | **76.097** | **1.1115** | **70.776** | **9.7284** | **.76790** | **51.496** | **.57796** |
| Stddev | .00094 | .00038 | 2.49 | .830 | .0129 | .207 | .1407 | .00060 | .498 | .00065 |
| %RSD | .17526 | .07647 | .97924 | 1.0905 | 1.1622 | .29215 | 1.4461 | .07795 | .96650 | .11300 |
| #1 | .53383 | .50309 | 252.40 | 75.510 | 1.1024 | 70.630 | 9.8279 | .76747 | 51.144 | .57750 |
| #2 | .53515 | .50363 | 255.92 | 76.684 | 1.1206 | 70.922 | 9.6289 | .76832 | 51.848 | .57843 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **18.518** | **.70497** | **8.1596** | **.11530** | **1.6618** | **4.2396** | **9.0727** | **1.2325** | **1.2817** | **.75015** |
| Stddev | .001 | .00065 | .0060 | .00126 | .0049 | .0656 | .1404 | .0018 | .0138 | .00280 |
| %RSD | .00733 | .09268 | .07303 | 1.0914 | .29393 | 1.5477 | 1.5477 | .14401 | 1.0724 | .37279 |
| #1 | 18.517 | .70451 | 8.1554 | .11441 | 1.6584 | 4.2860 | 9.1720 | 1.2338 | 1.2720 | .75213 |
| #2 | 18.519 | .70543 | 8.1638 | .11619 | 1.6653 | 4.1932 | 8.9734 | 1.2313 | 1.2915 | .74818 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.2784** | **1.6132** | **1.2969** | **1.1365** | **1.0190** | **.23986** |
| Stddev | .0132 | .0018 | .0122 | .0030 | .0037 | .00683 |
| %RSD | .30738 | .11184 | .94141 | .26595 | .36215 | 2.8460 |
| #1 | 4.2877 | 1.6119 | 1.2883 | 1.1344 | 1.0164 | .23504 |
| #2 | 4.2691 | 1.6145 | 1.3055 | 1.1387 | 1.0217 | .24469 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9558.3** | **116210.** | **10702.** |
| Stddev | 15.9 | 111. | 137. |
| %RSD | .16605 | .09511 | 1.2769 |
| #1 | 9547.1 | 116290. | 10798. |
| #2 | 9569.6 | 116130. | 10605. |

Sample Name: 400-78272-a-5-o msd  Acquired: 8/15/2013 0:20:47  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04320** | **329.82** | **.94508** | **.86594** | **3.1181** | **.05551** | F **1.8178** | **93.645** | **.09730** | **.57436** |
| Stddev | .00065 | 2.16 | .00571 | .00076 | .0229 | .00038 | .0017 | .632 | .00000 | .00015 |
| %RSD | 1.5119 | .65479 | .60467 | .08767 | .73379 | .67976 | .09508 | .67517 | .00339 | .02625 |
| #1 | .04366 | 328.29 | .94104 | .86648 | 3.1019 | .05524 | 1.8165 | 93.198 | .09730 | .57447 |
| #2 | .04273 | 331.34 | .94912 | .86540 | 3.1343 | .05577 | 1.8190 | 94.092 | .09731 | .57425 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51458** | **.50230** | **243.44** | **74.414** | **1.1155** | **71.031** | **9.6927** | **.77253** | **51.547** | **.58066** |
| Stddev | .00027 | .00071 | 1.61 | .431 | .0095 | .076 | .0099 | .00012 | .010 | .00074 |
| %RSD | .05161 | .14225 | .66234 | .57927 | .84785 | .10673 | .10260 | .01505 | .01847 | .12753 |
| #1 | .51439 | .50281 | 242.30 | 74.109 | 1.1088 | 70.978 | 9.6856 | .77261 | 51.540 | .58013 |
| #2 | .51476 | .50180 | 244.58 | 74.718 | 1.1222 | 71.085 | 9.6997 | .77245 | 51.553 | .58118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **18.339** | **.70576** | **8.0692** | **.10448** | **1.6782** | **3.4227** | **7.3247** | **1.1067** | **1.2808** | **.80884** |
| Stddev | .008 | .00037 | .0014 | .00684 | .0004 | .0622 | .1330 | .0008 | .0100 | .00131 |
| %RSD | .04298 | .05270 | .01739 | 6.5424 | .02232 | 1.8163 | 1.8163 | .06971 | .77681 | .16190 |
| #1 | 18.344 | .70602 | 8.0702 | .10931 | 1.6785 | 3.3788 | 7.2306 | 1.1061 | 1.2738 | .80977 |
| #2 | 18.333 | .70549 | 8.0682 | .09964 | 1.6779 | 3.4667 | 7.4187 | 1.1072 | 1.2879 | .80792 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.7920** | **1.6323** | **1.3727** | **1.1137** | **1.0197** | **.28196** |
| Stddev | .0013 | .0027 | .0536 | .0015 | .0029 | .00164 |
| %RSD | .03465 | .16647 | 3.9063 | .13503 | .28480 | .58305 |
| #1 | 3.7929 | 1.6303 | 1.3348 | 1.1126 | 1.0176 | .28079 |
| #2 | 3.7910 | 1.6342 | 1.4106 | 1.1148 | 1.0217 | .28312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9535.7** | **116580.** | **10656.** |
| Stddev | 8.6 | 144. | 12. |
| %RSD | .08996 | .12389 | .11200 |
| #1 | 9529.7 | 116480. | 10647. |
| #2 | 9541.8 | 116690. | 10664. |

Sample Name: 400-78272-a-6-h  Acquired: 8/15/2013 0:23:05  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00290** | **342.26** | **.08340** | **.05685** | **1.7208** | **.01093** | **.00914** | **50.603** | **.00325** | **.21987** |
| Stddev | .00018 | 3.75 | .00123 | .00054 | .0198 | .00019 | .00085 | .515 | .00018 | .00079 |
| %RSD | 6.2281 | 1.0966 | 1.4771 | .94992 | 1.1521 | 1.7830 | 9.3360 | 1.0187 | 5.5811 | .35824 |
| #1 | -.00277 | 339.61 | .08253 | .05724 | 1.7068 | .01080 | .00854 | 50.238 | .00312 | .21931 |
| #2 | -.00302 | 344.92 | .08427 | .05647 | 1.7348 | .01107 | .00975 | 50.967 | .00338 | .22042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38990** | **.48476** | **401.37** | **27.334** | **.21707** | **58.779** | **9.3565** | **.00672** | **2.6076** | **.27132** |
| Stddev | .00051 | .00046 | 3.89 | .353 | .00198 | .028 | .0248 | .00004 | .0243 | .00018 |
| %RSD | .13004 | .09392 | .97027 | 1.2901 | .91299 | .04692 | .26456 | .62997 | .93047 | .06579 |
| #1 | .38954 | .48444 | 398.61 | 27.085 | .21847 | 58.760 | 9.3740 | .00669 | 2.5905 | .27144 |
| #2 | .39026 | .48508 | 404.12 | 27.584 | .21567 | 58.799 | 9.3390 | .00675 | 2.6248 | .27119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.380** | **.33844** | **6.8700** | **.00311** | **.00627** | **2.9675** | **6.3504** | **.02215** | **.29913** | **.08325** |
| Stddev | .009 | .00109 | .0295 | .00170 | .00087 | .0664 | .1420 | .00037 | .00252 | .00107 |
| %RSD | .07155 | .32115 | .42902 | 54.553 | 13.897 | 2.2358 | 2.2358 | 1.6628 | .84263 | 1.2880 |
| #1 | 12.386 | .33767 | 6.8491 | .00431 | .00689 | 3.0144 | 6.4508 | .02189 | .29735 | .08401 |
| #2 | 12.374 | .33921 | 6.8908 | .00191 | .00566 | 2.9206 | 6.2500 | .02241 | .30092 | .08249 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.0496** | **-.00744** | F **-.65380** | **.73481** | **1.0347** | **.09070** |
| Stddev | .0105 | .00117 | .03213 | .00083 | .0012 | .00243 |
| %RSD | .17423 | 15.764 | 4.9148 | .11306 | .11199 | 2.6777 |
| #1 | 6.0421 | -.00661 | -.63108 | .73422 | 1.0339 | .08898 |
| #2 | 6.0570 | -.00827 | -.67652 | .73540 | 1.0355 | .09242 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10280.** | **124910.** | **11389.** |
| Stddev | 9. | 454. | 69. |
| %RSD | .09203 | .36309 | .60374 |
| #1 | 10273. | 125230. | 11438. |
| #2 | 10287. | 124590. | 11341. |

Sample Name: 400-78272-a-7-h  Acquired: 8/15/2013 0:25:26  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186382 SOIL 6010B MI

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00155** | **224.15** | **.07647** | **.02708** | **1.3758** | **.01179** | **-.00511** | **38.395** | **.00264** | **.16524** |
| Stddev | .00006 | .57 | .00213 | .00050 | .0052 | .00020 | .00036 | .108 | .00009 | .00102 |
| %RSD | 3.7646 | .25372 | 2.7849 | 1.8558 | .37651 | 1.7235 | 7.0214 | .28243 | 3.4826 | .61743 |
| #1 | -.00151 | 223.75 | .07497 | .02672 | 1.3721 | .01165 | -.00486 | 38.318 | .00271 | .16452 |
| #2 | -.00160 | 224.55 | .07798 | .02743 | 1.3795 | .01194 | -.00537 | 38.471 | .00258 | .16596 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29484** | **.22018** | **257.65** | **14.788** | **.17733** | **24.355** | W **12.574** | **.00645** | **2.1295** | **.15728** |
| Stddev | .00008 | .00053 | .79 | .060 | .00373 | .014 | .191 | .00016 | .0114 | .00053 |
| %RSD | .02770 | .24076 | .30687 | .40530 | 2.1017 | .05915 | 1.5228 | 2.5313 | .53671 | .33582 |
| #1 | .29478 | .21981 | 257.09 | 14.746 | .17469 | 24.365 | 12.709 | .00634 | 2.1214 | .15691 |
| #2 | .29490 | .22055 | 258.21 | 14.831 | .17996 | 24.344 | 12.438 | .00657 | 2.1376 | .15765 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.053** | **.26287** | **8.5829** | **.00367** | **.00441** | **2.0932** | **4.4794** | **.01514** | **.18847** | **.05896** |
| Stddev | .012 | .00178 | .0085 | .00059 | .00195 | .0326 | .0698 | .00006 | .00041 | .00182 |
| %RSD | .11092 | .67643 | .09932 | 16.009 | 44.197 | 1.5576 | 1.5576 | .40162 | .21997 | 3.0949 |
| #1 | 11.044 | .26162 | 8.5769 | .00326 | .00579 | 2.1162 | 4.5288 | .01518 | .18818 | .06025 |
| #2 | 11.061 | .26413 | 8.5889 | .00409 | .00303 | 2.0701 | 4.4301 | .01510 | .18876 | .05767 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1909** | **-.00645** | F **-.57460** | **.56287** | **.62647** | **.03467** |
| Stddev | .0129 | .00077 | .03302 | .00051 | .00036 | .00081 |
| %RSD | 1.0799 | 11.904 | 5.7462 | .09141 | .05693 | 2.3373 |
| #1 | 1.2000 | -.00590 | -.55125 | .56251 | .62622 | .03524 |
| #2 | 1.1818 | -.00699 | -.59795 | .56323 | .62672 | .03409 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10087.** | **121540.** | **10887.** |
| Stddev | 10. | 345. | 52. |
| %RSD | .10075 | .28350 | .47825 |
| #1 | 10094. | 121300. | 10924. |
| #2 | 10080. | 121780. | 10850. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 0:27:48 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **50.501** | **.00293** | **.00377** | **.00069** | **.00000** | **1.0009** | **-.00430** | **-.00007** | **.00037** | **-.00029** | **.00107** | **48.773** |
| Stddev | .00009 | .078 | .00240 | .00055 | .00022 | .0001 | .0015 | .00282 | .00022 | .00006 | .00014 | .00098 | .525 |
| %RSD | 25.126 | .15451 | 81.830 | 14.694 | 31.177 | 3158.9 | .15166 | 65.404 | 319.80 | 16.782 | 49.605 | 91.288 | 1.0761 |
| #1 | .00041 | 50.446 | .00124 | .00338 | .00054 | .00003 | .99985 | -.00231 | .00009 | .00033 | -.00019 | .00038 | 48.401 |
| #2 | .00029 | 50.556 | .00463 | .00416 | .00085 | -.00004 | 1.0020 | -.00630 | -.00023 | .00042 | -.00039 | .00176 | 49.144 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22052** | **-.00118** | **-.01267** | **.00038** | **-.00003** | **248.36** | **.00065** | **.00560** | **.00096** | **5.0858** | **.00266** | **-.00362** | **-.00680** |
| Stddev | .01527 | .00354 | .00286 | .00000 | .00033 | .83 | .00010 | .00035 | .00100 | .0069 | .00069 | .00039 | .01155 |
| %RSD | 6.9232 | 299.92 | 22.567 | 1.2253 | 1058.1 | .33528 | 16.099 | 6.2999 | 104.47 | .13463 | 26.106 | 10.899 | 169.86 |
| #1 | .23132 | .00132 | -.01470 | .00038 | -.00027 | 247.77 | .00072 | .00535 | .00167 | 5.0810 | .00315 | -.00334 | -.01497 |
| #2 | .20973 | -.00368 | -.01065 | .00038 | .00020 | 248.95 | .00057 | .00585 | .00025 | 5.0906 | .00217 | -.00390 | .00137 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01455** | **.00055** | **.00029** | **4.9964** | **.00013** | **.00064** | **10.077** | **.00111** | **.00178** | **.01894** |
| Stddev | .02471 | .00027 | .00006 | .0146 | .00018 | .00053 | .022 | .00124 | .00016 | .00054 |
| %RSD | 169.86 | 49.544 | 20.085 | .29238 | 134.11 | 83.625 | .21659 | 111.58 | 9.0618 | 2.8332 |
| #1 | -.03203 | .00036 | .00024 | 5.0068 | .00026 | .00026 | 10.092 | .00023 | .00167 | .01932 |
| #2 | .00293 | .00075 | .00033 | 4.9861 | .00001 | .00101 | 10.061 | .00198 | .00189 | .01856 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9088.9** | **112320.** | **9690.2** |
| Stddev | 39.5 | 201. | 48.9 |
| %RSD | .43462 | .17854 | .50490 |
| #1 | 9116.8 | 112180. | 9724.8 |
| #2 | 9061.0 | 112460. | 9655.6 |

Sample Name: CCV-2194461 Acquired: 8/15/2013 0:30:10 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50111** | **.54329** | **.97609** | **.49795** | **.47475** | **.49290** | **-.00077** | **4.9605** | **.50487** | **.51211** | **.49354** | **.51264** | **2.4943** |
| Stddev | .00063 | .00285 | .00576 | .00036 | .00125 | .00055 | .00249 | .0022 | .00015 | .00010 | .00036 | .00226 | .0045 |
| %RSD | .12514 | .52429 | .58996 | .07284 | .26302 | .11113 | 325.13 | .04523 | .03052 | .01983 | .07347 | .44165 | .17843 |
| #1 | .50155 | .54128 | .98016 | .49770 | .47563 | .49251 | -.00252 | 4.9589 | .50476 | .51204 | .49380 | .51424 | 2.4974 |
| #2 | .50066 | .54531 | .97202 | .49821 | .47387 | .49329 | .00099 | 4.9621 | .50498 | .51218 | .49329 | .51104 | 2.4911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.384** | **.97018** | **19.461** | **.50980** | **.48738** | **5.2341** | **.49945** | **.97288** | **1.0143** | **.00527** | **1.0305** | **.99659** | **4.9017** |
| Stddev | .029 | .00413 | .049 | .00060 | .00260 | .0130 | .00091 | .00226 | .0009 | .00221 | .0025 | .00350 | .0013 |
| %RSD | .05823 | .42573 | .24998 | .11784 | .53409 | .24821 | .18201 | .23220 | .08609 | 42.032 | .24214 | .35082 | .02709 |
| #1 | 49.363 | .97310 | 19.495 | .51022 | .48922 | 5.2433 | .50009 | .97448 | 1.0149 | .00683 | 1.0288 | .99412 | 4.9008 |
| #2 | 49.404 | .96726 | 19.427 | .50937 | .48554 | 5.2249 | .49880 | .97128 | 1.0137 | .00370 | 1.0323 | .99906 | 4.9026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.490** | **.98424** | **.50137** | **-.00308** | **.51475** | **1.0394** | **.03816** | **.50531** | **.49467** | **.50703** |
| Stddev | .003 | .00077 | .00005 | .00046 | .00093 | .0026 | .00196 | .00124 | .00198 | .00149 |
| %RSD | .02709 | .07823 | .00963 | 14.911 | .18104 | .25063 | 5.1330 | .24444 | .40001 | .29322 |
| #1 | 10.488 | .98479 | .50140 | -.00275 | .51541 | 1.0376 | .03955 | .50444 | .49327 | .50598 |
| #2 | 10.492 | .98370 | .50134 | -.00340 | .51409 | 1.0412 | .03678 | .50618 | .49607 | .50808 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9284.0** | **116170.** | **9880.4** |
| Stddev | 7.3 | 338. | 56.3 |
| %RSD | .07900 | .29053 | .56996 |
| #1 | 9289.2 | 116410. | 9920.3 |
| #2 | 9278.8 | 115930. | 9840.6 |

Sample Name: CCB  Acquired: 8/15/2013 0:32:17  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.01649** | **.00369** | **.00231** | **.00005** | **.00000** | **-.00077** | **.00446** | **.00006** | **.00018** | **-.00007** | **-.00129** |
| Stddev | .00115 | .00056 | .00098 | .00018 | .00017 | .0000 | .00119 | .00231 | .00000 | .00017 | .00006 | .00053 |
| %RSD | 714.30 | 3.4236 | 26.515 | 7.9632 | 360.26 | .28998 | 155.49 | 51.839 | 1.4209 | 94.231 | 79.309 | 40.982 |
| #1 | -.00065 | .01689 | .00438 | .00244 | -.00007 | .00000 | .00008 | .00283 | .00006 | .00029 | -.00003 | -.00166 |
| #2 | .00097 | .01609 | .00300 | .00218 | .00017 | .00000 | -.00161 | .00610 | .00006 | .00006 | -.00011 | -.00091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01751** | **.13079** | **.00174** | **.00414** | F **.00067** | **.00037** | **.07870** | **.00020** | **.00182** | **-.00021** | **.00402** | W **.00339** |
| Stddev | .00161 | .02096 | .00264 | .00054 | .00005 | .00001 | .01253 | .00036 | .00139 | .00051 | .00212 | .00100 |
| %RSD | 9.1730 | 16.025 | 151.37 | 12.965 | 6.8521 | 3.8388 | 15.919 | 176.03 | 76.175 | 244.95 | 52.721 | 29.450 |
| #1 | .01638 | .11597 | .00361 | .00376 | .00063 | .00036 | .08755 | .00046 | .00084 | -.00057 | .00552 | .00268 |
| #2 | .01865 | .14561 | -.00012 | .00451 | .00070 | .00038 | .06984 | -.00005 | .00280 | .00015 | .00252 | .00409 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | .00050 | | | | | | | .00314 |
| Low Limit | | | | | -.00050 | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.00572** | **-.00661** | **-.01415** | **.00042** | **.00013** | **.00172** | **.00047** | **-.00017** | **.01590** | **.00028** | **.00090** | **-.00133** |
| Stddev | .00213 | .00836 | .01789 | .00087 | .00002 | .00085 | .00043 | .00027 | .03361 | .00006 | .00015 | .00011 |
| %RSD | 37.307 | 126.43 | 126.43 | 207.53 | 16.605 | 49.654 | 91.382 | 153.77 | 211.35 | 20.246 | 16.934 | 8.1557 |
| #1 | .00421 | -.00070 | -.00150 | -.00020 | .00014 | .00232 | .00017 | .00002 | -.00786 | .00024 | .00079 | -.00125 |
| #2 | .00723 | -.01252 | -.02680 | .00104 | .00011 | .00112 | .00077 | -.00037 | .03967 | .00033 | .00100 | -.00141 |
| Check ? | Chk Warn | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .00486 | | | | | | | | | | | |
| Low Limit | -.00486 | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9343.8** | **118350.** | **9753.2** |
| Stddev | 7.4 | 109. | 68.9 |
| %RSD | .07951 | .09210 | .70666 |
| #1 | 9349.1 | 118430. | 9801.9 |
| #2 | 9338.6 | 118270. | 9704.5 |

Sample Name: CCVL2197715 Acquired: 8/15/2013 0:34:32 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01073** | **.12425** | **.01765** | **.09844** | **.00962** | **.00100** | **.11277** | **.20707** | **.00517** | **.01104** | **.01035** | **.01542** | **.11411** | **3.2129** |
| Stddev | .00001 | .00126 | .00085 | .00019 | .00030 | .00004 | .00192 | .00156 | .00015 | .00005 | .00010 | .00004 | .00165 | .0057 |
| %RSD | .08177 | 1.0155 | 4.8275 | .19616 | 3.0759 | 3.8674 | 1.7022 | .75204 | 2.8312 | .46134 | .92655 | .22895 | 1.4474 | .17853 |
| #1 | .01072 | .12515 | .01705 | .09857 | .00941 | .00097 | .11141 | .20817 | .00527 | .01101 | .01041 | .01539 | .11294 | 3.2170 |
| #2 | .01073 | .12336 | .01825 | .09830 | .00982 | .00103 | .11413 | .20597 | .00507 | .01108 | .01028 | .01544 | .11528 | 3.2088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00876** | **.21062** | **.01104** | **.01958** | **1.1649** | **.04190** | **2.8544** | **.01068** | **.00475** | **.01174** | **.01747** | **.47960** | **1.0263** | **.10107** |
| Stddev | .00028 | .00150 | .00001 | .00011 | .0086 | .00009 | .0012 | .00117 | .00055 | .00207 | .00184 | .00165 | .0035 | .00024 |
| %RSD | 3.1738 | .71296 | .11742 | .54117 | .74058 | .21597 | .04097 | 11.003 | 11.593 | 17.638 | 10.508 | .34378 | .34378 | .23275 |
| #1 | .00896 | .20955 | .01105 | .01966 | 1.1588 | .04196 | 2.8536 | .01151 | .00514 | .01028 | .01617 | .48077 | 1.0288 | .10123 |
| #2 | .00857 | .21168 | .01103 | .01951 | 1.1710 | .04184 | 2.8553 | .00985 | .00436 | .01321 | .01877 | .47844 | 1.0239 | .10090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01044** | **.01618** | **.01045** | **.01564** | **.06691** | **.01073** | **.02149** | **.01489** |
| Stddev | .00009 | .00127 | .00018 | .00025 | .00215 | .00027 | .00041 | .00046 |
| %RSD | .81457 | 7.8473 | 1.6996 | 1.5841 | 3.2191 | 2.4888 | 1.9175 | 3.0911 |
| #1 | .01050 | .01708 | .01057 | .01581 | .06844 | .01054 | .02120 | .01522 |
| #2 | .01038 | .01529 | .01032 | .01546 | .06539 | .01092 | .02178 | .01457 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9430.1** | **119790.** | **9858.6** |
| Stddev | 1.8 | 328. | 29.6 |
| %RSD | .01901 | .27402 | .30062 |
| #1 | 9431.4 | 120020. | 9879.5 |
| #2 | 9428.8 | 119560. | 9837.6 |

Sample Name: mb 280-186959/1-a  Acquired: 8/15/2013 0:36:48  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.01694** | **.00152** | **.00750** | **.00005** | **-.00004** | **.00031** | **.04074** | **-.00014** | **.00009** |
| Stddev | .00024 | .00008 | .00187 | .00011 | .00016 | .00002 | .00133 | .00441 | .00008 | .00006 |
| %RSD | 82.306 | .49000 | 122.90 | 1.5221 | 311.57 | 58.787 | 430.45 | 10.818 | 60.763 | 70.414 |
| #1 | .00045 | .01688 | .00284 | .00758 | .00017 | -.00002 | -.00063 | .04386 | -.00008 | .00013 |
| #2 | .00012 | .01700 | .00020 | .00742 | -.00006 | -.00006 | .00125 | .03762 | -.00020 | .00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00027** | **.02756** | **.10194** | **-.00153** | **.00443** | **.00069** | **-.00027** | **.10953** | **.00038** |
| Stddev | .00004 | .00006 | .00071 | .04104 | .00194 | .00009 | .00005 | .00011 | .01457 | .00009 |
| %RSD | 39.966 | 21.484 | 2.5701 | 40.255 | 126.31 | 2.0350 | 7.8374 | 41.380 | 13.304 | 22.466 |
| #1 | .00012 | .00031 | .02706 | .07292 | -.00290 | .00449 | .00065 | -.00019 | .11983 | .00032 |
| #2 | .00007 | .00023 | .02806 | .13096 | -.00016 | .00436 | .00073 | -.00035 | .09922 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00539** | **-.00023** | **.04118** | **-.00117** | **.00066** | **.04615** | **.09877** | **.00065** | **.00012** | **.00031** |
| Stddev | .00007 | .00048 | .00122 | .00207 | .00181 | .00147 | .00315 | .00032 | .00000 | .00008 |
| %RSD | 1.2696 | 208.52 | 2.9595 | 176.98 | 275.28 | 3.1898 | 3.1898 | 49.128 | 3.4343 | 27.361 |
| #1 | .00534 | -.00057 | .04204 | .00029 | .00194 | .04719 | .10100 | .00088 | .00012 | .00025 |
| #2 | .00544 | .00011 | .04031 | -.00263 | -.00062 | .04511 | .09654 | .00043 | .00012 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00075** | **-.00096** | **.03381** | **.00054** | **.00281** | **-.00081** |
| Stddev | .00052 | .00047 | .00262 | .00017 | .00022 | .00004 |
| %RSD | 69.339 | 49.621 | 7.7596 | 30.779 | 7.9843 | 5.4680 |
| #1 | .00038 | -.00062 | .03195 | .00043 | .00297 | -.00084 |
| #2 | .00111 | -.00129 | .03566 | .00066 | .00265 | -.00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9592.6** | **122110.** | **10056.** |
| Stddev | 11.7 | 120. | 23. |
| %RSD | .12153 | .09815 | .22844 |
| #1 | 9584.3 | 122020. | 10072. |
| #2 | 9600.8 | 122190. | 10040. |

Sample Name: lcs 280-186959/2-a Acquired: 8/15/2013 0:39:04 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04920** | **2.0443** | **1.0024** | **1.0440** | **1.9097** | **.04936** | **2.0596** | **49.204** | **.10608** | **.50166** |
| Stddev | .00052 | .0016 | .0008 | .0001 | .0022 | .00010 | .0031 | .088 | .00003 | .00066 |
| %RSD | 1.0584 | .07981 | .07619 | .00679 | .11730 | .20925 | .15151 | .17819 | .03011 | .13066 |
| #1 | .04957 | 2.0454 | 1.0018 | 1.0439 | 1.9081 | .04929 | 2.0574 | 49.142 | .10605 | .50213 |
| #2 | .04884 | 2.0431 | 1.0029 | 1.0440 | 1.9113 | .04944 | 2.0618 | 49.266 | .10610 | .50120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19776** | **.25659** | **1.0108** | **49.902** | **.96733** | **48.055** | **.50531** | **.94324** | **49.794** | **.49039** |
| Stddev | .00017 | .00032 | .0006 | .040 | .00065 | .077 | .00026 | .00067 | .234 | .00042 |
| %RSD | .08545 | .12404 | .06191 | .08014 | .06730 | .16031 | .05133 | .07114 | .46947 | .08571 |
| #1 | .19788 | .25682 | 1.0112 | 49.873 | .96779 | 48.001 | .50513 | .94371 | 49.629 | .49009 |
| #2 | .19764 | .25637 | 1.0103 | 49.930 | .96687 | 48.110 | .50549 | .94276 | 49.959 | .49068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9331** | **.50065** | **.01917** | **.48517** | **1.9667** | **1.0444** | **2.2350** | **1.8913** | **1.0143** | **.96114** |
| Stddev | .0096 | .00018 | .00032 | .00090 | .0049 | .0047 | .0100 | .0014 | .0010 | .00329 |
| %RSD | .09692 | .03519 | 1.6672 | .18495 | .24718 | .44678 | .44678 | .07296 | .09701 | .34219 |
| #1 | 9.9399 | .50053 | .01940 | .48581 | 1.9632 | 1.0411 | 2.2280 | 1.8904 | 1.0136 | .96347 |
| #2 | 9.9263 | .50078 | .01894 | .48454 | 1.9701 | 1.0477 | 2.2421 | 1.8923 | 1.0150 | .95882 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0030** | **2.0046** | **2.1027** | **.50881** | **.48585** | **.49679** |
| Stddev | .0015 | .0016 | .0257 | .00070 | .00102 | .00217 |
| %RSD | .14559 | .07960 | 1.2216 | .13825 | .20903 | .43673 |
| #1 | 1.0020 | 2.0034 | 2.0846 | .50831 | .48513 | .49525 |
| #2 | 1.0040 | 2.0057 | 2.1209 | .50931 | .48657 | .49832 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9061.1** | **113420.** | **9937.6** |
| Stddev | 14.6 | 517. | 18.9 |
| %RSD | .16138 | .45618 | .18990 |
| #1 | 9050.8 | 113780. | 9950.9 |
| #2 | 9071.5 | 113050. | 9924.2 |

Sample Name: 280-45020-a-21-f  Acquired: 8/15/2013 0:41:10  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00218** | **84.027** | **.05038** | **.01985** | **.29299** | **.00380** | **.00087** | **16.196** | **.00157** | **.06952** |
| Stddev | .00040 | .317 | .00375 | .00003 | .00173 | .00007 | .00039 | .074 | .00005 | .00030 |
| %RSD | 18.192 | .37681 | 7.4454 | .14799 | .58946 | 1.8356 | 45.139 | .45857 | 3.3837 | .43600 |
| #1 | -.00190 | 84.251 | .04772 | .01983 | .29421 | .00385 | .00059 | 16.249 | .00153 | .06974 |
| #2 | -.00246 | 83.803 | .05303 | .01987 | .29177 | .00375 | .00115 | 16.144 | .00161 | .06931 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11383** | **.34154** | **194.19** | **9.1395** | **.17751** | **37.385** | **8.3305** | **.01076** | **.38096** | **.15098** |
| Stddev | .00007 | .00017 | 1.35 | .0370 | .00096 | .028 | .1462 | .00031 | .00807 | .00003 |
| %RSD | .06519 | .05031 | .69626 | .40451 | .53844 | .07410 | 1.7546 | 2.9045 | 2.1192 | .01676 |
| #1 | .11378 | .34142 | 195.15 | 9.1656 | .17683 | 37.405 | 8.4338 | .01054 | .37525 | .15100 |
| #2 | .11388 | .34166 | 193.24 | 9.1134 | .17818 | 37.366 | 8.2271 | .01099 | .38667 | .15096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.7282** | **.05962** | **.17672** | **.00366** | **.00276** | **1.9901** | **4.2588** | **.00396** | **.06056** | **.03411** |
| Stddev | .0120 | .00044 | .00200 | .00001 | .00008 | .0196 | .0420 | .00015 | .00040 | .00206 |
| %RSD | .20862 | .74223 | 1.1294 | .20869 | 2.8642 | .98647 | .98647 | 3.7349 | .66448 | 6.0402 |
| #1 | 5.7198 | .05993 | .17531 | .00365 | .00281 | 1.9762 | 4.2291 | .00407 | .06084 | .03265 |
| #2 | 5.7367 | .05930 | .17814 | .00366 | .00270 | 2.0040 | 4.2885 | .00386 | .06027 | .03557 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.68741** | **-.00137** | F **-.20871** | **.15772** | **.53263** | **.05063** |
| Stddev | .00142 | .00039 | .00453 | .00070 | .00114 | .00007 |
| %RSD | .20660 | 28.506 | 2.1699 | .44241 | .21365 | .14792 |
| #1 | .68640 | -.00164 | -.21191 | .15722 | .53182 | .05069 |
| #2 | .68841 | -.00109 | -.20551 | .15821 | .53343 | .05058 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11115.** | **137350.** | **11892.** |
| Stddev | 31. | 53. | 17. |
| %RSD | .27589 | .03888 | .14387 |
| #1 | 11093. | 137390. | 11880. |
| #2 | 11137. | 137320. | 11904. |

Sample Name: 280-45020-a-22-d  Acquired: 8/15/2013 0:43:36  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00181** | **84.514** | **.04333** | **.01712** | **.27438** | **.00399** | **.00005** | **7.3600** | **.00200** | **.05455** |
| Stddev | .00013 | .402 | .00221 | .00057 | .00166 | .00003 | .00043 | .0405 | .00010 | .00033 |
| %RSD | 7.3962 | .47588 | 5.1039 | 3.3066 | .60372 | .64814 | 884.26 | .55054 | 4.7934 | .61061 |
| #1 | -.00171 | 84.229 | .04489 | .01752 | .27321 | .00397 | .00036 | 7.3313 | .00207 | .05479 |
| #2 | -.00190 | 84.798 | .04176 | .01672 | .27555 | .00401 | -.00026 | 7.3886 | .00193 | .05432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10190** | **.27318** | **159.42** | **7.5937** | **.13482** | **27.539** | **6.7492** | **.00464** | **.50335** | **.12194** |
| Stddev | .00072 | .00032 | 1.01 | .0698 | .00059 | .028 | .0321 | .00010 | .00303 | .00084 |
| %RSD | .70566 | .11766 | .63520 | .91873 | .44057 | .10043 | .47634 | 2.2620 | .60220 | .69116 |
| #1 | .10241 | .27341 | 158.71 | 7.5444 | .13524 | 27.558 | 6.7719 | .00456 | .50121 | .12254 |
| #2 | .10139 | .27296 | 160.14 | 7.6431 | .13440 | 27.519 | 6.7265 | .00471 | .50549 | .12135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.1875** | **.07127** | **.37974** | **.00013** | **.00187** | **1.8720** | **4.0061** | **.00413** | **.02454** | **.03353** |
| Stddev | .0189 | .00002 | .00298 | .00013 | .00341 | .0072 | .0154 | .00017 | .00002 | .00188 |
| %RSD | .59221 | .03140 | .78419 | 101.50 | 182.76 | .38478 | .38478 | 4.0422 | .09870 | 5.5987 |
| #1 | 3.2008 | .07126 | .38184 | .00022 | -.00055 | 1.8771 | 4.0170 | .00401 | .02453 | .03486 |
| #2 | 3.1741 | .07129 | .37763 | .00004 | .00428 | 1.8669 | 3.9952 | .00424 | .02456 | .03220 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45604** | **-.00321** | F **-.21805** | **.14417** | **.41939** | **.02000** |
| Stddev | .00144 | .00036 | .00682 | .00001 | .00039 | .00068 |
| %RSD | .31560 | 11.131 | 3.1296 | .00958 | .09195 | 3.3777 |
| #1 | .45706 | -.00346 | -.22288 | .14418 | .41912 | .02048 |
| #2 | .45503 | -.00296 | -.21323 | .14416 | .41966 | .01952 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10755.** | **132370.** | **11657.** |
| Stddev | 3. | 249. | 26. |
| %RSD | .02587 | .18780 | .22269 |
| #1 | 10753. | 132190. | 11675. |
| #2 | 10756. | 132540. | 11639. |

Sample Name: 280-45020-a-23-d  Acquired: 8/15/2013 0:45:57  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00194** | **80.046** | **.04599** | **.01703** | **.29847** | **.00418** | **.00076** | **9.5507** | **.00174** | **.06350** |
| Stddev | .00009 | .955 | .00189 | .00030 | .00509 | .00007 | .00063 | .1256 | .00009 | .00057 |
| %RSD | 4.6270 | 1.1926 | 4.1140 | 1.7392 | 1.7064 | 1.7646 | 83.573 | 1.3153 | 5.2490 | .89231 |
| #1 | -.00188 | 79.371 | .04466 | .01724 | .29487 | .00413 | .00120 | 9.4618 | .00180 | .06390 |
| #2 | -.00201 | 80.721 | .04733 | .01682 | .30208 | .00423 | .00031 | 9.6395 | .00167 | .06310 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09832** | **.40808** | **190.87** | **7.9196** | **.15143** | **32.291** | **9.7775** | **.00315** | **.43235** | **.13811** |
| Stddev | .00049 | .00100 | 3.37 | .1350 | .00071 | .018 | .0495 | .00009 | .00967 | .00126 |
| %RSD | .50300 | .24424 | 1.7673 | 1.7051 | .47104 | .05506 | .50656 | 2.9656 | 2.2375 | .91122 |
| #1 | .09866 | .40879 | 188.49 | 7.8241 | .15093 | 32.303 | 9.7425 | .00308 | .42551 | .13900 |
| #2 | .09797 | .40738 | 193.26 | 8.0151 | .15194 | 32.278 | 9.8125 | .00321 | .43920 | .13722 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.2308** | **.06369** | **.12456** | **-.00076** | **.00131** | **1.6105** | **3.4465** | **.00329** | **.03919** | **.02598** |
| Stddev | .0038 | .00051 | .00075 | .00047 | .00212 | .0249 | .0534 | .00013 | .00054 | .00444 |
| %RSD | .08960 | .79535 | .60395 | 61.458 | 161.92 | 1.5488 | 1.5488 | 3.9315 | 1.3857 | 17.077 |
| #1 | 4.2335 | .06405 | .12403 | -.00043 | -.00019 | 1.5929 | 3.4087 | .00320 | .03880 | .02912 |
| #2 | 4.2281 | .06333 | .12509 | -.00109 | .00281 | 1.6281 | 3.4842 | .00338 | .03957 | .02285 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26734** | **-.00270** | F **-.18746** | **.14432** | **.49835** | **.04716** |
| Stddev | .00060 | .00014 | .00178 | .00039 | .00009 | .00095 |
| %RSD | .22545 | 5.0952 | .94857 | .27310 | .01800 | 2.0048 |
| #1 | .26692 | -.00279 | -.18621 | .14404 | .49828 | .04649 |
| #2 | .26777 | -.00260 | -.18872 | .14460 | .49841 | .04783 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11224.** | **139000.** | **12094.** |
| Stddev | 6. | 93. | 152. |
| %RSD | .05260 | .06707 | 1.2556 |
| #1 | 11228. | 139070. | 12201. |
| #2 | 11220. | 138940. | 11987. |

Sample Name: 280-45020-a-26-h  Acquired: 8/15/2013 0:48:23  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00160** | **95.849** | **.04679** | **.01745** | **.29942** | **.00456** | **-.00018** | **10.239** | **.00184** | **.06740** |
| Stddev | .00093 | .887 | .00199 | .00019 | .00291 | .00002 | .00028 | .083 | .00011 | .00058 |
| %RSD | 57.972 | .92513 | 4.2523 | 1.0705 | .97076 | .50919 | 162.08 | .81424 | 5.8483 | .85544 |
| #1 | -.00225 | 95.222 | .04538 | .01732 | .29736 | .00457 | .00003 | 10.180 | .00176 | .06699 |
| #2 | -.00094 | 96.476 | .04820 | .01758 | .30147 | .00454 | -.00038 | 10.298 | .00192 | .06781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12759** | **.34479** | **206.00** | **8.5204** | **.18052** | **38.457** | **9.0687** | **.00485** | **.55384** | **.15725** |
| Stddev | .00107 | .00177 | 1.82 | .0374 | .00347 | .148 | .0890 | .00037 | .00096 | .00027 |
| %RSD | .84143 | .51438 | .88285 | .43957 | 1.9246 | .38470 | .98179 | 7.5473 | .17270 | .17163 |
| #1 | .12683 | .34353 | 204.71 | 8.4939 | .17806 | 38.352 | 9.0058 | .00459 | .55316 | .15706 |
| #2 | .12835 | .34604 | 207.28 | 8.5469 | .18297 | 38.561 | 9.1317 | .00511 | .55452 | .15745 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.1705** | **.06704** | **.18769** | **-.00038** | **-.00096** | **1.9327** | **4.1359** | **.00372** | **.04135** | **.03239** |
| Stddev | .0027 | .00057 | .00036 | .00136 | .00017 | .0734 | .1570 | .00040 | .00001 | .00155 |
| %RSD | .06606 | .85631 | .18932 | 353.43 | 18.153 | 3.7966 | 3.7966 | 10.837 | .01905 | 4.7802 |
| #1 | 4.1725 | .06744 | .18744 | .00058 | -.00108 | 1.8808 | 4.0249 | .00401 | .04134 | .03349 |
| #2 | 4.1686 | .06663 | .18794 | -.00134 | -.00083 | 1.9846 | 4.2470 | .00344 | .04135 | .03130 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30783** | **-.00344** | F **-.21591** | **.16302** | **.50987** | **.04696** |
| Stddev | .00475 | .00029 | .00181 | .00097 | .00028 | .00018 |
| %RSD | 1.5428 | 8.3782 | .83790 | .59203 | .05403 | .38117 |
| #1 | .30447 | -.00323 | -.21719 | .16234 | .50968 | .04708 |
| #2 | .31119 | -.00364 | -.21463 | .16370 | .51007 | .04683 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11297.** | **139510.** | **12285.** |
| Stddev | 22. | 140. | 20. |
| %RSD | .19424 | .10033 | .16083 |
| #1 | 11313. | 139610. | 12299. |
| #2 | 11281. | 139410. | 12271. |

Sample Name: 280-45020-a-26-hSD@5 Acquired: 8/15/2013 0:50:49 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **22.990** | **.00999** | **.00630** | **.07141** | **.00106** | **-.00086** | **2.4970** | **.00027** | **.01663** |
| Stddev | .00020 | .134 | .00035 | .00024 | .00093 | .00005 | .00113 | .0337 | .00007 | .00019 |
| %RSD | 222.76 | .58071 | 3.5353 | 3.7577 | 1.3049 | 5.0625 | 130.53 | 1.3483 | 25.130 | 1.1702 |
| #1 | .00005 | 22.896 | .01024 | .00647 | .07075 | .00110 | -.00166 | 2.4731 | .00032 | .01677 |
| #2 | -.00023 | 23.085 | .00974 | .00613 | .07207 | .00102 | -.00007 | 2.5208 | .00022 | .01649 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03108** | **.08210** | **50.251** | **2.1109** | **.04368** | **9.2395** | **2.2755** | **.00124** | **.16153** | **.03906** |
| Stddev | .00011 | .00025 | .656 | .0318 | .00080 | .0016 | .0241 | .00007 | .01174 | .00039 |
| %RSD | .35237 | .30687 | 1.3052 | 1.5045 | 1.8411 | .01773 | 1.0584 | 5.5324 | 7.2666 | .98989 |
| #1 | .03100 | .08192 | 49.788 | 2.0884 | .04425 | 9.2407 | 2.2925 | .00128 | .15323 | .03879 |
| #2 | .03116 | .08227 | 50.715 | 2.1333 | .04311 | 9.2383 | 2.2585 | .00119 | .16983 | .03934 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0070** | **.01619** | **.04634** | **.00014** | **.00214** | **.47970** | **1.0266** | **.00056** | **.00995** | **.00805** |
| Stddev | .0035 | .00056 | .00034 | .00036 | .00285 | .00967 | .0207 | .00015 | .00019 | .00085 |
| %RSD | .34827 | 3.4633 | .74361 | 266.66 | 133.12 | 2.0167 | 2.0167 | 26.658 | 1.9368 | 10.510 |
| #1 | 1.0045 | .01659 | .04610 | .00039 | .00416 | .47286 | 1.0119 | .00045 | .00981 | .00865 |
| #2 | 1.0094 | .01579 | .04659 | -.00012 | .00013 | .48655 | 1.0412 | .00066 | .01009 | .00745 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07313** | **-.00077** | **-.03413** | **.03926** | **.12510** | **.00928** |
| Stddev | .00042 | .00099 | .00149 | .00002 | .00158 | .00146 |
| %RSD | .57397 | 128.05 | 4.3581 | .05993 | 1.2593 | 15.789 |
| #1 | .07283 | -.00007 | -.03308 | .03928 | .12621 | .00824 |
| #2 | .07342 | -.00147 | -.03518 | .03925 | .12399 | .01031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9864.7** | **123090.** | **10497.** |
| Stddev | 11.2 | 341. | 101. |
| %RSD | .11333 | .27714 | .96044 |
| #1 | 9856.8 | 122850. | 10568. |
| #2 | 9872.6 | 123330. | 10426. |

Sample Name: 280-45020-a-26-i ms  Acquired: 8/15/2013 0:53:11  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03863** | **122.22** | **.85301** | **.76739** | **1.9236** | **.04509** | F **1.6453** | **49.700** | **.08740** | **.45838** |
| Stddev | .00033 | .44 | .00039 | .00127 | .0092 | .00034 | .0022 | .282 | .00018 | .00060 |
| %RSD | .84616 | .35722 | .04536 | .16583 | .47998 | .75355 | .13101 | .56795 | .20798 | .13143 |
| #1 | .03887 | 121.91 | .85328 | .76829 | 1.9171 | .04485 | 1.6437 | 49.500 | .08753 | .45881 |
| #2 | .03840 | 122.53 | .85273 | .76649 | 1.9301 | .04533 | 1.6468 | 49.899 | .08727 | .45796 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29656** | **.59422** | **192.14** | **59.960** | **.96709** | **75.078** | **7.4006** | **.73556** | **42.420** | **.52434** |
| Stddev | .00055 | .00068 | 1.02 | .349 | .00625 | .117 | .0003 | .00028 | .043 | .00048 |
| %RSD | .18650 | .11480 | .52880 | .58177 | .64613 | .15636 | .00428 | .03833 | .10179 | .09086 |
| #1 | .29695 | .59470 | 191.42 | 59.714 | .96267 | 74.995 | 7.4003 | .73576 | 42.451 | .52468 |
| #2 | .29617 | .59373 | 192.86 | 60.207 | .97150 | 75.161 | 7.4008 | .73536 | 42.390 | .52401 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.870** | **.46817** | **.25682** | **.19294** | **1.5714** | **6.3431** | **13.574** | **1.4297** | **.87653** | **.80885** |
| Stddev | .009 | .00042 | .00178 | .00156 | .0070 | .0562 | .120 | .0049 | .00526 | .00013 |
| %RSD | .07582 | .08931 | .69242 | .80698 | .44664 | .88622 | .88622 | .34040 | .60006 | .01579 |
| #1 | 11.877 | .46846 | .25557 | .19183 | 1.5664 | 6.3829 | 13.659 | 1.4263 | .87281 | .80894 |
| #2 | 11.864 | .46787 | .25808 | .19404 | 1.5764 | 6.3034 | 13.489 | 1.4332 | .88025 | .80876 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2816** | **1.5237** | **1.4163** | **.62392** | **.85690** | **.41690** |
| Stddev | .0004 | .0080 | .0055 | .00115 | .00305 | .00049 |
| %RSD | .03194 | .52486 | .38476 | .18468 | .35599 | .11780 |
| #1 | 1.2813 | 1.5180 | 1.4124 | .62311 | .85906 | .41724 |
| #2 | 1.2819 | 1.5293 | 1.4201 | .62474 | .85475 | .41655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11123.** | **136710.** | **12309.** |
| Stddev | 2. | 76. | 92. |
| %RSD | .01521 | .05568 | .75099 |
| #1 | 11121. | 136770. | 12375. |
| #2 | 11124. | 136660. | 12244. |

Sample Name: 280-45020-a-26-j msd  Acquired: 8/15/2013 0:55:36  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04019** | **122.07** | **.89345** | **.80262** | **2.0323** | **.04664** | F **1.7021** | **50.771** | **.09038** | **.47832** |
| Stddev | .00014 | .26 | .00366 | .00072 | .0062 | .00015 | .0052 | .145 | .00019 | .00014 |
| %RSD | .35900 | .21089 | .40975 | .08959 | .30506 | .33068 | .30496 | .28571 | .21039 | .02881 |
| #1 | .04029 | 121.88 | .89604 | .80313 | 2.0279 | .04653 | 1.6985 | 50.668 | .09051 | .47842 |
| #2 | .04009 | 122.25 | .89086 | .80212 | 2.0367 | .04675 | 1.7058 | 50.873 | .09024 | .47822 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30715** | **.55973** | **208.45** | **63.224** | **.99530** | **75.044** | **9.0600** | **.76448** | **44.044** | **.54302** |
| Stddev | .00004 | .00164 | .76 | .136 | .00364 | .080 | .0285 | .00175 | .297 | .00043 |
| %RSD | .01415 | .29325 | .36594 | .21433 | .36572 | .10655 | .31410 | .22849 | .67479 | .07839 |
| #1 | .30718 | .56089 | 207.91 | 63.128 | .99272 | 74.987 | 9.0801 | .76572 | 43.834 | .54332 |
| #2 | .30712 | .55857 | 208.99 | 63.319 | .99787 | 75.100 | 9.0399 | .76325 | 44.254 | .54272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.204** | **.48429** | **.26683** | **.19816** | **1.6205** | **6.5970** | **14.118** | **1.4814** | **.90836** | **.84635** |
| Stddev | .004 | .00102 | .00138 | .00120 | .0039 | .0691 | .148 | .0018 | .00473 | .00607 |
| %RSD | .02883 | .21151 | .51652 | .60639 | .23770 | 1.0481 | 1.0481 | .12120 | .52048 | .71692 |
| #1 | 12.206 | .48356 | .26586 | .19901 | 1.6178 | 6.6459 | 14.222 | 1.4826 | .90502 | .85064 |
| #2 | 12.201 | .48501 | .26781 | .19731 | 1.6232 | 6.5481 | 14.013 | 1.4801 | .91171 | .84206 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4450** | **1.5717** | **1.4764** | **.65157** | **.91348** | **.45881** |
| Stddev | .0028 | .0010 | .0315 | .00109 | .00154 | .00316 |
| %RSD | .19634 | .06411 | 2.1356 | .16665 | .16805 | .68938 |
| #1 | 1.4470 | 1.5724 | 1.4541 | .65234 | .91457 | .45657 |
| #2 | 1.4430 | 1.5710 | 1.4987 | .65080 | .91240 | .46105 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11082.** | **136880.** | **12335.** |
| Stddev | 38. | 159. | 109. |
| %RSD | .33933 | .11627 | .87961 |
| #1 | 11056. | 136770. | 12258. |
| #2 | 11109. | 137000. | 12412. |

Sample Name: 280-45020-a-26-hPDS  Acquired: 8/15/2013 0:58:00  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03290** | **94.941** | **.21850** | **.09627** | **.37858** | **.04774** | **.00135** | **27.454** | **.04764** | **.11040** |
| Stddev | .00047 | .739 | .00154 | .00049 | .00416 | .00042 | .00197 | .285 | .00027 | .00062 |
| %RSD | 1.4268 | .77804 | .70370 | .50984 | 1.0992 | .87281 | 145.82 | 1.0397 | .56796 | .55923 |
| #1 | .03323 | 94.419 | .21959 | .09662 | .37564 | .04745 | .00275 | 27.252 | .04783 | .11083 |
| #2 | .03257 | 95.463 | .21741 | .09593 | .38153 | .04804 | -.00004 | 27.656 | .04745 | .10996 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16884** | **.38391** | **203.29** | **26.246** | **.26533** | **54.941** | **8.9630** | **.04452** | **19.197** | **.19715** |
| Stddev | .00086 | .00024 | 2.60 | .257 | .00198 | .032 | .0770 | .00002 | .198 | .00211 |
| %RSD | .50766 | .06183 | 1.2774 | .98086 | .74706 | .05904 | .85900 | .03814 | 1.0300 | 1.0696 |
| #1 | .16945 | .38408 | 201.45 | 26.064 | .26393 | 54.918 | 8.9086 | .04454 | 19.058 | .19864 |
| #2 | .16824 | .38375 | 205.13 | 26.428 | .26673 | 54.964 | 9.0175 | .04451 | 19.337 | .19566 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.8177** | **.15207** | **.18230** | **.08274** | **.17692** | **5.9153** | **12.659** | **.08187** | **.08634** | **.20544** |
| Stddev | .0038 | .00040 | .00264 | .00324 | .00210 | .0665 | .142 | .00128 | .00086 | .00024 |
| %RSD | .06526 | .26614 | 1.4465 | 3.9195 | 1.1888 | 1.1242 | 1.1242 | 1.5687 | .99054 | .11858 |
| #1 | 5.8204 | .15179 | .18416 | .08503 | .17544 | 5.8683 | 12.558 | .08278 | .08574 | .20561 |
| #2 | 5.8150 | .15236 | .18044 | .08044 | .17841 | 5.9624 | 12.759 | .08096 | .08695 | .20527 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34079** | **.16950** | **.23609** | **.20447** | **.67136** | **.08910** |
| Stddev | .00026 | .00269 | .00673 | .00016 | .00255 | .00126 |
| %RSD | .07756 | 1.5877 | 2.8508 | .07697 | .38023 | 1.4123 |
| #1 | .34060 | .17140 | .24085 | .20458 | .67316 | .08821 |
| #2 | .34097 | .16759 | .23133 | .20435 | .66955 | .08999 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11042.** | **136500.** | **12120.** |
| Stddev | 19. | 601. | 119. |
| %RSD | .16880 | .44065 | .98145 |
| #1 | 11055. | 136080. | 12204. |
| #2 | 11029. | 136930. | 12036. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 1:00:22 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00099** | **50.004** | **.00613** | **.00473** | **.00050** | **.00001** | **1.0035** | **-.00755** | **-.00015** | **.00021** | **-.00016** | **.00121** | **48.722** |
| Stddev | .00008 | .198 | .00438 | .00059 | .00039 | .00005 | .0011 | .00282 | .00030 | .00004 | .00003 | .00019 | .430 |
| %RSD | 7.9008 | .39545 | 71.464 | 12.492 | 78.517 | 414.15 | .10626 | 37.304 | 200.13 | 19.389 | 19.730 | 15.757 | .88233 |
| #1 | .00105 | 49.864 | .00303 | .00431 | .00077 | .00005 | 1.0043 | -.00556 | .00006 | .00018 | -.00014 | .00107 | 48.418 |
| #2 | .00094 | 50.144 | .00922 | .00515 | .00022 | -.00003 | 1.0027 | -.00955 | -.00036 | .00024 | -.00018 | .00134 | 49.026 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31985** | **.00029** | **-.00514** | **.00062** | **.00007** | **248.06** | **.00075** | **.00661** | **.00089** | **5.1260** | **.00436** | **.00030** | **-.01518** |
| Stddev | .03868 | .00099 | .00061 | .00011 | .00023 | 1.21 | .00041 | .00002 | .00070 | .0006 | .00112 | .00184 | .01293 |
| %RSD | 12.095 | 339.60 | 11.852 | 18.235 | 351.64 | .48705 | 54.128 | .31749 | 77.829 | .01123 | 25.640 | 620.95 | 85.193 |
| #1 | .29249 | -.00041 | -.00471 | .00070 | -.00010 | 247.21 | .00104 | .00662 | .00040 | 5.1256 | .00357 | -.00100 | -.02432 |
| #2 | .34720 | .00099 | -.00557 | .00054 | .00023 | 248.92 | .00046 | .00659 | .00139 | 5.1264 | .00515 | .00160 | -.00603 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.03248** | **.00039** | **.00037** | **4.9846** | **-.00001** | **-.00016** | **9.9871** | **.00111** | **.00074** | **.01780** |
| Stddev | .02767 | .00060 | .00007 | .0000 | .00014 | .00049 | .0543 | .00026 | .00009 | .00295 |
| %RSD | 85.193 | 155.60 | 20.171 | .00055 | 1374.8 | 304.47 | .54373 | 23.052 | 11.606 | 16.597 |
| #1 | -.05204 | .00082 | .00042 | 4.9846 | .00009 | -.00050 | 10.025 | .00093 | .00068 | .01571 |
| #2 | -.01291 | -.00004 | .00032 | 4.9845 | -.00011 | .00018 | 9.9487 | .00129 | .00080 | .01988 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9061.9** | **112080.** | **9807.3** |
| Stddev | 19.6 | 695. | 26.2 |
| %RSD | .21616 | .61991 | .26707 |
| #1 | 9048.1 | 112580. | 9788.8 |
| #2 | 9075.8 | 111590. | 9825.8 |

Sample Name: CCV-2194461 Acquired: 8/15/2013 1:02:44 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50214** | **.53461** | **.98548** | **.50074** | **.47895** | **.49515** | **.00080** | **4.9748** | **.50591** | **.51413** | **.49552** | **.51198** | **2.5009** |
| Stddev | .00054 | .00050 | .00133 | .00036 | .00242 | .00169 | .00054 | .0152 | .00064 | .00073 | .00045 | .00132 | .0033 |
| %RSD | .10670 | .09431 | .13473 | .07261 | .50453 | .34119 | 68.177 | .30492 | .12576 | .14269 | .09139 | .25816 | .13048 |
| #1 | .50176 | .53497 | .98641 | .50100 | .47724 | .49396 | .00118 | 4.9641 | .50636 | .51465 | .49520 | .51104 | 2.4986 |
| #2 | .50252 | .53426 | .98454 | .50049 | .48065 | .49635 | .00041 | 4.9855 | .50546 | .51361 | .49584 | .51291 | 2.5032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.601** | **.97007** | **19.546** | **.51088** | **.48959** | **5.2330** | **.50193** | **.97626** | **1.0173** | **-.00019** | **1.0311** | **.99927** | **4.8974** |
| Stddev | .084 | .00735 | .068 | .00115 | .00024 | .0015 | .00005 | .00229 | .0012 | .00049 | .0015 | .00191 | .0165 |
| %RSD | .17027 | .75812 | .34848 | .22607 | .04892 | .02903 | .01014 | .23450 | .11456 | 256.13 | .14269 | .19109 | .33632 |
| #1 | 49.542 | .96487 | 19.497 | .51006 | .48976 | 5.2320 | .50197 | .97464 | 1.0181 | .00016 | 1.0321 | .99792 | 4.8858 |
| #2 | 49.661 | .97527 | 19.594 | .51169 | .48942 | 5.2341 | .50190 | .97788 | 1.0164 | -.00054 | 1.0300 | 1.0006 | 4.9091 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.481** | **.98237** | **.50574** | **-.00270** | **.51482** | **1.0430** | **.02333** | **.50353** | **.49246** | **.50906** |
| Stddev | .035 | .00056 | .00197 | .00272 | .00060 | .0001 | .04394 | .00017 | .00025 | .00278 |
| %RSD | .33632 | .05709 | .38928 | 100.87 | .11733 | .01398 | 188.35 | .03470 | .05171 | .54586 |
| #1 | 10.456 | .98277 | .50435 | -.00462 | .51439 | 1.0429 | .05440 | .50365 | .49228 | .50710 |
| #2 | 10.505 | .98198 | .50713 | -.00077 | .51525 | 1.0431 | -.00774 | .50341 | .49264 | .51103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9257.2** | **115990.** | **9924.3** |
| Stddev | 1.8 | 256. | 11.3 |
| %RSD | .01931 | .22071 | .11360 |
| #1 | 9255.9 | 116170. | 9932.3 |
| #2 | 9258.5 | 115810. | 9916.4 |

Sample Name: CCB  Acquired: 8/15/2013 1:04:52  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00302** | **.00226** | **.00281** | **-.00003** | **.00001** | **.00087** | **-.00055** | **.00001** | **.00010** | **-.00006** | **-.00084** |
| Stddev | .00039 | .00029 | .00090 | .00063 | .00006 | .00003 | .00082 | .00287 | .00000 | .00016 | .00018 | .00018 |
| %RSD | 90.743 | 9.5467 | 39.767 | 22.552 | 193.94 | 186.51 | 95.098 | 523.33 | 12.684 | 167.78 | 307.81 | 21.598 |
| #1 | .00016 | .00322 | .00163 | .00326 | .00001 | .00003 | .00028 | -.00258 | .00001 | -.00002 | .00007 | -.00097 |
| #2 | .00071 | .00281 | .00290 | .00236 | -.00007 | .00000 | .00145 | .00148 | .00001 | .00021 | -.00019 | -.00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01771** | **.15882** | **.00207** | **.00575** | F **.00072** | **.00048** | W **.09841** | **.00035** | **.00109** | **.00009** | **.00294** | **.00185** |
| Stddev | .00026 | .03061 | .00198 | .00372 | .00008 | .00010 | .01181 | .00003 | .00178 | .00023 | .00068 | .00072 |
| %RSD | 1.4866 | 19.272 | 95.607 | 64.717 | 10.824 | 20.162 | 12.001 | 7.5390 | 164.05 | 253.82 | 23.081 | 39.124 |
| #1 | .01790 | .18047 | .00347 | .00312 | .00067 | .00041 | .10676 | .00037 | -.00017 | -.00007 | .00246 | .00236 |
| #2 | .01753 | .13718 | .00067 | .00838 | .00078 | .00055 | .09006 | .00033 | .00235 | .00026 | .00343 | .00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00050 | | .09160 | | | | | |
| Low Limit | | | | | -.00050 | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00384** | **.00395** | **.00846** | **.00055** | **.00006** | **.00172** | **.00020** | **-.00002** | **.01654** | **.00065** | **.00141** | **-.00225** |
| Stddev | .00086 | .01399 | .02994 | .00014 | .00000 | .00134 | .00011 | .00122 | .02907 | .00006 | .00044 | .00110 |
| %RSD | 22.328 | 353.97 | 353.97 | 24.739 | 4.6276 | 77.873 | 54.269 | 4982.4 | 175.72 | 9.4127 | 31.172 | 48.840 |
| #1 | .00444 | .01385 | .02963 | .00045 | .00006 | .00267 | .00028 | .00084 | -.00401 | .00061 | .00172 | -.00148 |
| #2 | .00323 | -.00594 | -.01271 | .00064 | .00006 | .00077 | .00012 | -.00088 | .03710 | .00070 | .00110 | -.00303 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9313.8** | **118330.** | **9795.4** |
| Stddev | 1.4 | 311. | 71.0 |
| %RSD | .01514 | .26295 | .72481 |
| #1 | 9314.8 | 118550. | 9845.6 |
| #2 | 9312.8 | 118110. | 9745.2 |

Sample Name: CCVL-2197715 Acquired: 8/15/2013 1:07:08 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01009** | **.11053** | **.01596** | **.09563** | **.00980** | **.00097** | **.10856** | **.20508** | **.00505** | **.01089** | **.01019** | **.01499** | **.10493** |
| Stddev | .00051 | .00043 | .00183 | .00083 | .00045 | .00002 | .00261 | .00437 | .00022 | .00020 | .00010 | .00076 | .00086 |
| %RSD | 5.0562 | .39219 | 11.459 | .87009 | 4.5782 | 2.2198 | 2.4064 | 2.1306 | 4.3864 | 1.8142 | .98666 | 5.0612 | .81838 |
| #1 | .00973 | .11022 | .01467 | .09504 | .01012 | .00098 | .10671 | .20199 | .00489 | .01103 | .01012 | .01445 | .10433 |
| #2 | .01045 | .11084 | .01725 | .09622 | .00948 | .00095 | .11041 | .20817 | .00521 | .01075 | .01026 | .01552 | .10554 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2244** | **.01042** | **.20401** | **.01061** | **.01982** | **1.1405** | **.04129** | **2.7882** | **.00822** | **-.00017** | **.01074** | **.01659** | **.47178** |
| Stddev | .0066 | .00227 | .00234 | .00002 | .00006 | .0189 | .00012 | .0023 | .00012 | .00206 | .00088 | .00068 | .00775 |
| %RSD | .20484 | 21.793 | 1.1490 | .21088 | .32678 | 1.6587 | .29547 | .08265 | 1.4621 | 1193.2 | 8.1762 | 4.0946 | 1.6436 |
| #1 | 3.2198 | .00881 | .20567 | .01063 | .01977 | 1.1271 | .04121 | 2.7865 | .00814 | -.00163 | .01136 | .01707 | .46630 |
| #2 | 3.2291 | .01202 | .20236 | .01060 | .01986 | 1.1538 | .04138 | 2.7898 | .00831 | .00128 | .01012 | .01611 | .47726 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0096** | **.10056** | **.01038** | **.01326** | **.01014** | **.01501** | F **.09829** | **.01068** | **.02117** | **.01410** |
| Stddev | .0166 | .00017 | .00015 | .00036 | .00021 | .00088 | .00128 | .00061 | .00036 | .00206 |
| %RSD | 1.6436 | .17398 | 1.4226 | 2.7141 | 2.0950 | 5.8607 | 1.2979 | 5.7145 | 1.7004 | 14.642 |
| #1 | .99788 | .10044 | .01027 | .01301 | .01029 | .01563 | .09919 | .01111 | .02092 | .01264 |
| #2 | 1.0213 | .10069 | .01048 | .01352 | .00999 | .01439 | .09739 | .01025 | .02143 | .01556 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9313.7** | **119030.** | **9833.5** |
| Stddev | 14.5 | 295. | 48.6 |
| %RSD | .15586 | .24751 | .49398 |
| #1 | 9303.4 | 118830. | 9867.8 |
| #2 | 9323.9 | 119240. | 9799.1 |

Sample Name: 280-45020-a-24-f  Acquired: 8/15/2013 1:09:26  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00126** | **90.350** | **.04727** | **.01960** | **.25859** | **.00405** | **.00231** | **11.244** | **.00160** | **.07352** |
| Stddev | .00038 | .129 | .00124 | .00014 | .00063 | .00003 | .00226 | .008 | .00007 | .00001 |
| %RSD | 29.986 | .14242 | 2.6216 | .70545 | .24221 | .62635 | 97.482 | .07421 | 4.1877 | .02032 |
| #1 | -.00099 | 90.441 | .04815 | .01950 | .25903 | .00407 | .00391 | 11.249 | .00165 | .07351 |
| #2 | -.00153 | 90.259 | .04639 | .01970 | .25815 | .00403 | .00072 | 11.238 | .00155 | .07353 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12085** | **.37361** | **206.75** | **9.3231** | **.19855** | **40.517** | **6.7780** | **.00429** | **.45492** | **.16249** |
| Stddev | .00007 | .00103 | .02 | .0463 | .00023 | .028 | .0106 | .00019 | .01791 | .00027 |
| %RSD | .05587 | .27701 | .01146 | .49684 | .11641 | .06904 | .15645 | 4.3195 | 3.9364 | .16322 |
| #1 | .12080 | .37288 | 206.77 | 9.3559 | .19871 | 40.498 | 6.7855 | .00416 | .44226 | .16268 |
| #2 | .12089 | .37435 | 206.73 | 9.2904 | .19839 | 40.537 | 6.7705 | .00442 | .46758 | .16230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.0345** | **.07197** | **.13926** | **.00011** | **.00429** | **1.6222** | **3.4714** | **.00366** | **.04520** | **.02734** |
| Stddev | .0237 | .00028 | .00121 | .00005 | .00077 | .0141 | .0303 | .00018 | .00019 | .00059 |
| %RSD | .58802 | .38829 | .87197 | 49.279 | 17.937 | .87252 | .87252 | 4.8518 | .40977 | 2.1695 |
| #1 | 4.0178 | .07217 | .14012 | .00015 | .00375 | 1.6122 | 3.4500 | .00354 | .04507 | .02776 |
| #2 | 4.0513 | .07177 | .13840 | .00007 | .00484 | 1.6322 | 3.4929 | .00379 | .04533 | .02692 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33933** | **-.00294** | F **-.14539** | **.15543** | **.50902** | **.04783** |
| Stddev | .00252 | .00049 | .00044 | .00039 | .00178 | .00130 |
| %RSD | .74180 | 16.617 | .30534 | .25126 | .34879 | 2.7084 |
| #1 | .33755 | -.00329 | -.14571 | .15515 | .50776 | .04875 |
| #2 | .34111 | -.00260 | -.14508 | .15571 | .51027 | .04692 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10644.** | **132280.** | **11552.** |
| Stddev | 22. | 282. | 120. |
| %RSD | .20443 | .21331 | 1.0354 |
| #1 | 10629. | 132480. | 11467. |
| #2 | 10659. | 132080. | 11636. |

Sample Name: 280-45026-a-1-b  Acquired: 8/15/2013 1:11:51  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00086** | **32.698** | **.02191** | **.01329** | **.10107** | **.00147** | **-.00124** | **16.389** | **.00063** | **.02928** |
| Stddev | .00019 | .037 | .00056 | .00046 | .00014 | .00003 | .00218 | .031 | .00000 | .00019 |
| %RSD | 22.152 | .11306 | 2.5727 | 3.4481 | .14031 | 1.7135 | 175.20 | .19036 | .33066 | .66183 |
| #1 | -.00099 | 32.672 | .02151 | .01297 | .10097 | .00146 | -.00278 | 16.366 | .00062 | .02942 |
| #2 | -.00072 | 32.725 | .02231 | .01362 | .10117 | .00149 | .00030 | 16.411 | .00063 | .02915 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03676** | **.07680** | **69.274** | **4.7944** | **.05553** | **15.453** | **2.4764** | **.00044** | **.21538** | **.05584** |
| Stddev | .00006 | .00043 | .241 | .0152 | .00093 | .007 | .0036 | .00007 | .00742 | .00027 |
| %RSD | .16741 | .56127 | .34812 | .31755 | 1.6660 | .04308 | .14446 | 14.706 | 3.4444 | .48820 |
| #1 | .03680 | .07649 | 69.104 | 4.7836 | .05618 | 15.457 | 2.4738 | .00049 | .22063 | .05565 |
| #2 | .03672 | .07710 | 69.445 | 4.8052 | .05487 | 15.448 | 2.4789 | .00040 | .21013 | .05604 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.4497** | **.02042** | **.14491** | **.00138** | **.00038** | **1.6059** | **3.4367** | **.00461** | **.05072** | **.01353** |
| Stddev | .0065 | .00021 | .00061 | .00003 | .00030 | .0022 | .0046 | .00016 | .00006 | .00279 |
| %RSD | .26399 | 1.0145 | .42370 | 2.0713 | 80.121 | .13439 | .13439 | 3.4580 | .11401 | 20.637 |
| #1 | 2.4542 | .02028 | .14535 | .00136 | .00059 | 1.6044 | 3.4334 | .00472 | .05076 | .01551 |
| #2 | 2.4451 | .02057 | .14448 | .00140 | .00016 | 1.6075 | 3.4400 | .00449 | .05068 | .01156 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21805** | **-.00076** | W **-.07980** | **.06067** | **.13603** | **.02568** |
| Stddev | .00017 | .00014 | .01722 | .00056 | .00008 | .00085 |
| %RSD | .07750 | 18.227 | 21.574 | .92326 | .05548 | 3.3273 |
| #1 | .21794 | -.00086 | -.09198 | .06027 | .13597 | .02508 |
| #2 | .21817 | -.00066 | -.06763 | .06106 | .13608 | .02629 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9861.7** | **123870.** | **10624.** |
| Stddev | 17.4 | 296. | . |
| %RSD | .17666 | .23930 | .00017 |
| #1 | 9849.4 | 124080. | 10624. |
| #2 | 9874.0 | 123660. | 10624. |

Sample Name: 280-45026-a-2-b  Acquired: 8/15/2013 1:14:11  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00121** | **30.440** | **.02052** | **.01351** | **.09476** | **.00139** | **-.00174** | **19.320** | **.00060** | **.02555** |
| Stddev | .00022 | .044 | .00388 | .00005 | .00059 | .00005 | .00025 | .003 | .00016 | .00003 |
| %RSD | 18.085 | .14531 | 18.896 | .34308 | .61944 | 3.4748 | 14.313 | .01406 | 26.955 | .12809 |
| #1 | -.00106 | 30.472 | .02326 | .01354 | .09518 | .00142 | -.00156 | 19.318 | .00048 | .02552 |
| #2 | -.00137 | 30.409 | .01778 | .01348 | .09435 | .00135 | -.00191 | 19.322 | .00071 | .02557 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03557** | **.07910** | **65.246** | **4.7724** | **.05359** | **14.404** | **2.3491** | **.00062** | **.21280** | **.05378** |
| Stddev | .00014 | .00042 | .097 | .0281 | .00297 | .050 | .0176 | .00002 | .00855 | .00047 |
| %RSD | .38454 | .53101 | .14809 | .58848 | 5.5398 | .34944 | .74908 | 3.0541 | 4.0201 | .87508 |
| #1 | .03567 | .07880 | 65.177 | 4.7923 | .05569 | 14.369 | 2.3616 | .00063 | .20675 | .05411 |
| #2 | .03548 | .07940 | 65.314 | 4.7525 | .05149 | 14.440 | 2.3367 | .00061 | .21885 | .05344 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.4260** | **.01793** | **.12083** | **-.00260** | **.00123** | **1.6475** | **3.5257** | **.00304** | **.04578** | **.01549** |
| Stddev | .0097 | .00069 | .00145 | .00208 | .00259 | .0010 | .0021 | .00041 | .00005 | .00040 |
| %RSD | .40124 | 3.8614 | 1.2005 | 80.082 | 210.37 | .06068 | .06068 | 13.562 | .10367 | 2.5874 |
| #1 | 2.4329 | .01842 | .11980 | -.00113 | .00306 | 1.6468 | 3.5242 | .00275 | .04582 | .01521 |
| #2 | 2.4191 | .01744 | .12186 | -.00407 | -.00060 | 1.6482 | 3.5272 | .00333 | .04575 | .01578 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17696** | **-.00156** | W **-.08779** | **.05695** | **.13320** | **.02384** |
| Stddev | .00028 | .00045 | .00103 | .00027 | .00044 | .00147 |
| %RSD | .15785 | 28.657 | 1.1758 | .47647 | .32790 | 6.1699 |
| #1 | .17716 | -.00124 | -.08852 | .05676 | .13289 | .02280 |
| #2 | .17676 | -.00188 | -.08706 | .05714 | .13351 | .02488 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9820.2** | **123720.** | **10646.** |
| Stddev | 43.7 | 146. | 10. |
| %RSD | .44533 | .11811 | .09779 |
| #1 | 9851.1 | 123820. | 10638. |
| #2 | 9789.3 | 123620. | 10653. |

Sample Name: 280-45026-a-3-b  Acquired: 8/15/2013 1:16:31  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00240** | **66.654** | **.04764** | **.01421** | **.27513** | **.00378** | **-.00011** | **19.466** | **.00136** | **.04499** |
| Stddev | .00028 | .318 | .00015 | .00015 | .00019 | .00003 | .00159 | .023 | .00004 | .00016 |
| %RSD | 11.815 | .47666 | .31423 | 1.0752 | .06933 | .91183 | 1422.0 | .11855 | 2.9740 | .35257 |
| #1 | -.00220 | 66.879 | .04775 | .01431 | .27526 | .00376 | .00101 | 19.482 | .00133 | .04510 |
| #2 | -.00260 | 66.429 | .04753 | .01410 | .27499 | .00381 | -.00124 | 19.450 | .00139 | .04488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08895** | **.31294** | **155.39** | **5.6941** | **.10754** | **23.109** | W **11.128** | **.00882** | **.35008** | **.10774** |
| Stddev | .00050 | .00065 | .11 | .0688 | .00005 | .085 | .104 | .00014 | .00655 | .00033 |
| %RSD | .55709 | .20822 | .07162 | 1.2089 | .04512 | .36957 | .93253 | 1.6376 | 1.8715 | .30381 |
| #1 | .08930 | .31248 | 155.31 | 5.6454 | .10757 | 23.049 | 11.054 | .00893 | .34545 | .10797 |
| #2 | .08860 | .31340 | 155.47 | 5.7428 | .10750 | 23.170 | 11.201 | .00872 | .35471 | .10751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.6056** | **.04912** | **.20016** | **.00068** | **.00406** | **1.9119** | **4.0915** | **.00333** | **.08183** | **.02902** |
| Stddev | .0192 | .00067 | .00161 | .00043 | .00100 | .0139 | .0298 | .00085 | .00026 | .00139 |
| %RSD | .22271 | 1.3610 | .80296 | 63.443 | 24.743 | .72749 | .72749 | 25.539 | .31868 | 4.7774 |
| #1 | 8.6192 | .04959 | .20130 | .00038 | .00335 | 1.9021 | 4.0705 | .00273 | .08165 | .02804 |
| #2 | 8.5921 | .04865 | .19903 | .00099 | .00477 | 1.9217 | 4.1125 | .00394 | .08202 | .03000 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22959** | **-.00241** | F **-.18273** | **.12289** | **.29662** | **.03573** |
| Stddev | .00131 | .00047 | .02991 | .00058 | .00070 | .00104 |
| %RSD | .57195 | 19.331 | 16.370 | .47519 | .23724 | 2.9019 |
| #1 | .22866 | -.00274 | -.20389 | .12248 | .29612 | .03499 |
| #2 | .23052 | -.00208 | -.16158 | .12331 | .29712 | .03646 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10786.** | **134690.** | **11765.** |
| Stddev | 17. | 561. | 109. |
| %RSD | .15987 | .41634 | .92735 |
| #1 | 10774. | 135080. | 11688. |
| #2 | 10799. | 134290. | 11842. |

Sample Name: 280-45026-a-4-b  Acquired: 8/15/2013 1:18:50  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00192** | **59.648** | **.04064** | **.01804** | **.23206** | **.00363** | **-.00049** | **28.447** | **.00114** | **.04532** |
| Stddev | .00015 | .047 | .00287 | .00040 | .00020 | .00002 | .00187 | .018 | .00018 | .00007 |
| %RSD | 7.8928 | .07803 | 7.0644 | 2.2207 | .08411 | .68433 | 377.99 | .06259 | 15.556 | .14362 |
| #1 | -.00181 | 59.681 | .04267 | .01776 | .23193 | .00361 | -.00181 | 28.460 | .00101 | .04527 |
| #2 | -.00203 | 59.615 | .03861 | .01833 | .23220 | .00364 | .00083 | 28.435 | .00127 | .04536 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07749** | **.22367** | **149.71** | **7.0005** | **.11268** | **24.527** | **6.5422** | **.00259** | **.47384** | **.09318** |
| Stddev | .00006 | .00026 | .01 | .0415 | .00149 | .033 | .0211 | .00026 | .00644 | .00023 |
| %RSD | .08003 | .11726 | .00982 | .59347 | 1.3210 | .13611 | .32231 | 10.015 | 1.3581 | .24928 |
| #1 | .07744 | .22386 | 149.70 | 7.0299 | .11163 | 24.551 | 6.5571 | .00277 | .46929 | .09301 |
| #2 | .07753 | .22349 | 149.72 | 6.9711 | .11373 | 24.503 | 6.5273 | .00240 | .47839 | .09334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.216** | **.04571** | **.23166** | **-.00230** | **.00132** | **1.6285** | **3.4849** | **.00631** | **.10304** | **.02609** |
| Stddev | .009 | .00064 | .00428 | .00017 | .00238 | .0146 | .0311 | .00008 | .00027 | .00103 |
| %RSD | .08166 | 1.3939 | 1.8494 | 7.3045 | 179.56 | .89370 | .89370 | 1.3306 | .26169 | 3.9312 |
| #1 | 11.222 | .04526 | .22863 | -.00218 | .00300 | 1.6182 | 3.4629 | .00625 | .10323 | .02682 |
| #2 | 11.209 | .04616 | .23469 | -.00241 | -.00036 | 1.6387 | 3.5069 | .00637 | .10285 | .02537 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36509** | **-.00239** | F **-.21146** | **.15188** | **.37687** | **.04097** |
| Stddev | .00107 | .00018 | .01333 | .00061 | .00060 | .00038 |
| %RSD | .29334 | 7.5579 | 6.3037 | .40427 | .15800 | .92356 |
| #1 | .36585 | -.00227 | -.22088 | .15232 | .37729 | .04070 |
| #2 | .36433 | -.00252 | -.20203 | .15145 | .37645 | .04124 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11297.** | **141570.** | **12262.** |
| Stddev | 12. | 329. | 37. |
| %RSD | .10902 | .23208 | .29939 |
| #1 | 11306. | 141340. | 12236. |
| #2 | 11288. | 141800. | 12288. |

Sample Name: 280-45026-a-5-b  Acquired: 8/15/2013 1:21:10  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00076** | **48.928** | **.02584** | **.01650** | **.18923** | **.00226** | **.00099** | **22.962** | **.00139** | **.03629** |
| Stddev | .00038 | .126 | .00130 | .00028 | .00009 | .00001 | .00144 | .048 | .00007 | .00007 |
| %RSD | 49.118 | .25850 | 5.0181 | 1.7242 | .04665 | .50164 | 146.10 | .21064 | 4.8422 | .18707 |
| #1 | -.00103 | 49.017 | .02492 | .01630 | .18917 | .00227 | .00200 | 22.996 | .00144 | .03624 |
| #2 | -.00050 | 48.838 | .02676 | .01671 | .18929 | .00225 | -.00003 | 22.927 | .00134 | .03634 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05953** | **.11585** | **95.103** | **6.1519** | **.08100** | **18.962** | **3.3805** | **.00137** | **.25798** | **.07794** |
| Stddev | .00001 | .00002 | .208 | .0290 | .00360 | .011 | .0020 | .00015 | .00282 | .00044 |
| %RSD | .01948 | .01487 | .21826 | .47182 | 4.4404 | .05987 | .06018 | 10.848 | 1.0939 | .56912 |
| #1 | .05952 | .11587 | 94.956 | 6.1725 | .07845 | 18.954 | 3.3820 | .00127 | .25998 | .07762 |
| #2 | .05954 | .11584 | 95.250 | 6.1314 | .08354 | 18.970 | 3.3791 | .00148 | .25599 | .07825 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.0080** | **.11945** | **.61177** | **-.00130** | **.00231** | **1.7741** | **3.7967** | **.02462** | **.05551** | **.01416** |
| Stddev | .0011 | .00096 | .00057 | .00307 | .00065 | .0058 | .0124 | .00039 | .00011 | .00008 |
| %RSD | .03710 | .80201 | .09244 | 236.37 | 28.003 | .32653 | .32653 | 1.5785 | .20050 | .53074 |
| #1 | 3.0072 | .11877 | .61217 | .00087 | .00276 | 1.7700 | 3.7879 | .02490 | .05544 | .01421 |
| #2 | 3.0088 | .12012 | .61137 | -.00347 | .00185 | 1.7782 | 3.8054 | .02435 | .05559 | .01411 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30155** | **-.00216** | W **-.08182** | **.10467** | **.28244** | **.01251** |
| Stddev | .00006 | .00023 | .00222 | .00090 | .00022 | .00083 |
| %RSD | .01941 | 10.841 | 2.7174 | .85524 | .07798 | 6.6228 |
| #1 | .30150 | -.00233 | -.08340 | .10530 | .28260 | .01309 |
| #2 | .30159 | -.00199 | -.08025 | .10404 | .28229 | .01192 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9916.9** | **124760.** | **10849.** |
| Stddev | 5.2 | 412. | 33. |
| %RSD | .05237 | .33006 | .30498 |
| #1 | 9920.5 | 124470. | 10826. |
| #2 | 9913.2 | 125050. | 10873. |

Sample Name: 280-45026-a-6-b  Acquired: 8/15/2013 1:23:30  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00054** | **27.466** | **.01758** | **.01115** | **.08362** | **.00121** | **-.00046** | **6.6100** | **.00044** | **.02252** |
| Stddev | .00007 | .035 | .00183 | .00001 | .00029 | .00001 | .00005 | .0196 | .00019 | .00027 |
| %RSD | 13.505 | .12648 | 10.435 | .06127 | .34137 | .97685 | 10.233 | .29641 | 43.215 | 1.2160 |
| #1 | -.00049 | 27.442 | .01629 | .01114 | .08342 | .00120 | -.00042 | 6.5962 | .00030 | .02233 |
| #2 | -.00059 | 27.491 | .01888 | .01115 | .08382 | .00122 | -.00049 | 6.6239 | .00057 | .02272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03154** | **.06795** | **58.066** | **4.1165** | **.04699** | **11.552** | **2.0365** | **.00026** | **.16039** | **.04777** |
| Stddev | .00015 | .00028 | .154 | .0597 | .00324 | .027 | .0021 | .00006 | .00336 | .00005 |
| %RSD | .46237 | .40590 | .26447 | 1.4515 | 6.8928 | .23020 | .10254 | 21.760 | 2.0940 | .09516 |
| #1 | .03144 | .06814 | 57.957 | 4.0742 | .04470 | 11.533 | 2.0351 | .00022 | .16277 | .04780 |
| #2 | .03164 | .06775 | 58.174 | 4.1587 | .04928 | 11.571 | 2.0380 | .00030 | .15802 | .04774 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.1148** | **.01386** | **.05909** | **.00098** | **.00163** | **1.3784** | **2.9498** | **.00181** | **.02406** | **.01268** |
| Stddev | .0156 | .00007 | .00281 | .00037 | .00191 | .0037 | .0080 | .00042 | .00018 | .00120 |
| %RSD | .73870 | .53670 | 4.7560 | 38.165 | 117.11 | .26998 | .26998 | 22.988 | .75665 | 9.4768 |
| #1 | 2.1038 | .01381 | .06107 | .00124 | .00297 | 1.3758 | 2.9441 | .00211 | .02393 | .01353 |
| #2 | 2.1259 | .01391 | .05710 | .00071 | .00028 | 1.3810 | 2.9554 | .00152 | .02419 | .01183 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16774** | **-.00102** | W **-.08115** | **.05018** | **.11564** | **.02232** |
| Stddev | .00013 | .00032 | .00298 | .00032 | .00057 | .00088 |
| %RSD | .07829 | 30.881 | 3.6725 | .64188 | .49305 | 3.9436 |
| #1 | .16784 | -.00080 | -.07904 | .05040 | .11523 | .02170 |
| #2 | .16765 | -.00125 | -.08326 | .04995 | .11604 | .02294 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9862.6** | **125130.** | **10683.** |
| Stddev | .5 | 392. | 13. |
| %RSD | .00503 | .31316 | .12416 |
| #1 | 9862.2 | 125410. | 10673. |
| #2 | 9862.9 | 124850. | 10692. |

Sample Name: 280-45026-a-7-b  Acquired: 8/15/2013 1:25:45  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00102** | **57.295** | **.05160** | **.02007** | **.27053** | **.00290** | **.00159** | **19.572** | **.01005** | **.05364** |
| Stddev | .00047 | .019 | .00143 | .00047 | .00059 | .00005 | .00107 | .030 | .00002 | .00018 |
| %RSD | 45.984 | .03321 | 2.7785 | 2.3534 | .21892 | 1.7034 | 67.024 | .15275 | .19474 | .33130 |
| #1 | -.00135 | 57.281 | .05261 | .01973 | .27011 | .00294 | .00084 | 19.551 | .01003 | .05376 |
| #2 | -.00069 | 57.308 | .05058 | .02040 | .27095 | .00287 | .00234 | 19.593 | .01006 | .05351 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25932** | **.40704** | **133.03** | **6.8594** | **.11405** | **24.236** | **3.7440** | **.00487** | **.35993** | **.10769** |
| Stddev | .00010 | .00013 | .22 | .0029 | .00229 | .017 | .0066 | .00022 | .00780 | .00049 |
| %RSD | .03665 | .03102 | .16587 | .04227 | 2.0097 | .06920 | .17544 | 4.6044 | 2.1663 | .45860 |
| #1 | .25939 | .40695 | 132.88 | 6.8573 | .11243 | 24.248 | 3.7487 | .00503 | .36544 | .10804 |
| #2 | .25925 | .40713 | 133.19 | 6.8614 | .11567 | 24.224 | 3.7394 | .00471 | .35442 | .10734 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.6373** | **1.3947** | **.22782** | **.00267** | **.00278** | **1.7252** | **3.6919** | **1.9044** | **.04107** | **.01713** |
| Stddev | .0052 | .0025 | .00036 | .00114 | .00085 | .0108 | .0232 | .0009 | .00019 | .00138 |
| %RSD | .09218 | .17866 | .15734 | 42.621 | 30.470 | .62861 | .62861 | .04660 | .45374 | 8.0687 |
| #1 | 5.6337 | 1.3930 | .22757 | .00348 | .00218 | 1.7175 | 3.6755 | 1.9050 | .04093 | .01811 |
| #2 | 5.6410 | 1.3965 | .22808 | .00187 | .00338 | 1.7328 | 3.7083 | 1.9038 | .04120 | .01615 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33911** | **-.00196** | F **-.10718** | **.10884** | **1.5063** | **.03677** |
| Stddev | .00106 | .00005 | .01513 | .00088 | .0090 | .00022 |
| %RSD | .31329 | 2.4635 | 14.119 | .80826 | .59603 | .60301 |
| #1 | .33836 | -.00193 | -.11788 | .10946 | 1.5127 | .03662 |
| #2 | .33986 | -.00200 | -.09648 | .10822 | 1.5000 | .03693 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10404.** | **130970.** | **11435.** |
| Stddev | 9. | 673. | 73. |
| %RSD | .08302 | .51361 | .63999 |
| #1 | 10398. | 130500. | 11487. |
| #2 | 10410. | 131450. | 11384. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 1:28:04 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **50.293** | **.00391** | **.00267** | **.00055** | **-.00010** | **1.0195** | **-.00867** | **-.00013** | **.00026** | **-.00018** | **.00240** | **49.131** |
| Stddev | .00008 | .535 | .00020 | .00023 | .00001 | .00003 | .0014 | .00284 | .00007 | .00001 | .00006 | .00046 | .485 |
| %RSD | 23.917 | 1.0634 | 5.0861 | 8.6879 | 2.1676 | 29.096 | .13412 | 32.754 | 55.285 | 5.0540 | 35.317 | 19.147 | .98726 |
| #1 | .00041 | 49.915 | .00405 | .00284 | .00056 | -.00008 | 1.0205 | -.00666 | -.00008 | .00027 | -.00022 | .00207 | 48.788 |
| #2 | .00029 | 50.671 | .00377 | .00251 | .00054 | -.00012 | 1.0185 | -.01068 | -.00019 | .00025 | -.00013 | .00272 | 49.474 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13148** | **.00244** | **-.00834** | **.00020** | **-.00012** | **249.48** | **.00054** | **.00363** | **.00062** | **5.1276** | **-.00014** | **-.00459** | **.00118** |
| Stddev | .02191 | .00000 | .00282 | .00001 | .00015 | 1.71 | .00014 | .00044 | .00074 | .0023 | .00162 | .00117 | .00585 |
| %RSD | 16.664 | .06399 | 33.766 | 2.5373 | 132.53 | .68425 | 26.140 | 12.143 | 120.11 | .04511 | 1155.1 | 25.448 | 496.76 |
| #1 | .14698 | .00243 | -.00635 | .00020 | -.00001 | 248.27 | .00044 | .00394 | .00114 | 5.1293 | .00101 | -.00377 | -.00296 |
| #2 | .11599 | .00244 | -.01033 | .00019 | -.00022 | 250.68 | .00064 | .00332 | .00009 | 5.1260 | -.00129 | -.00542 | .00532 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00252** | **.00080** | **.00029** | **4.9153** | **-.00082** | **-.00014** | **10.137** | **.00149** | **.00081** | **.02798** |
| Stddev | .01253 | .00011 | .00004 | .0125 | .00001 | .00053 | .064 | .00112 | .00021 | .00437 |
| %RSD | 496.76 | 13.520 | 13.493 | .25480 | .70024 | 374.60 | .63438 | 75.181 | 25.745 | 15.614 |
| #1 | -.00634 | .00072 | .00027 | 4.9242 | -.00081 | .00023 | 10.182 | .00070 | .00096 | .02489 |
| #2 | .01138 | .00088 | .00032 | 4.9065 | -.00082 | -.00052 | 10.091 | .00228 | .00066 | .03107 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9078.0** | **112960.** | **9852.9** |
| Stddev | 38.0 | 63. | 105.8 |
| %RSD | .41845 | .05581 | 1.0734 |
| #1 | 9051.1 | 112920. | 9927.7 |
| #2 | 9104.9 | 113010. | 9778.1 |

Sample Name: CCV-2194461 Acquired: 8/15/2013 1:30:26 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49934** | F **.55987** | **.98755** | **.50566** | **.48462** | **.49996** | **-.00023** | **4.9917** | **.50959** | **.51236** | **.49791** | **.51172** | **2.5253** |
| Stddev | .00173 | .00179 | .00088 | .00012 | .00134 | .00066 | .00018 | .0121 | .00046 | .00016 | .00039 | .00217 | .0182 |
| %RSD | .34558 | .31914 | .08920 | .02316 | .27684 | .13293 | 79.549 | .24346 | .08994 | .03030 | .07930 | .42322 | .72019 |
| #1 | .49812 | .55860 | .98693 | .50558 | .48557 | .50043 | -.00010 | 5.0003 | .50991 | .51247 | .49763 | .51019 | 2.5382 |
| #2 | .50056 | .56113 | .98817 | .50575 | .48367 | .49949 | -.00035 | 4.9831 | .50926 | .51225 | .49819 | .51325 | 2.5124 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | | |
| Range | | 10.490% | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.677** | **.96884** | **19.261** | **.50422** | **.49398** | **5.2674** | **.50321** | **.98364** | **1.0184** | **.00486** | **1.0398** | **1.0030** | **4.9439** |
| Stddev | .161 | .00172 | .018 | .00019 | .00203 | .0210 | .00091 | .00219 | .0022 | .00161 | .0041 | .0064 | .0248 |
| %RSD | .32345 | .17717 | .09459 | .03739 | .41081 | .39805 | .18175 | .22220 | .21537 | 33.207 | .39006 | .63716 | .50216 |
| #1 | 49.791 | .96762 | 19.248 | .50435 | .49542 | 5.2822 | .50257 | .98519 | 1.0199 | .00600 | 1.0427 | 1.0075 | 4.9614 |
| #2 | 49.564 | .97005 | 19.274 | .50408 | .49255 | 5.2526 | .50386 | .98210 | 1.0168 | .00372 | 1.0370 | .99849 | 4.9263 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.580** | **.99203** | **.50627** | **-.00511** | **.50897** | **1.0362** | **.05907** | **.50303** | **.48593** | **.51370** |
| Stddev | .053 | .00230 | .00068 | .00081 | .00041 | .0027 | .01397 | .00019 | .00017 | .00275 |
| %RSD | .50216 | .23212 | .13475 | 15.773 | .07965 | .26165 | 23.652 | .03682 | .03430 | .53462 |
| #1 | 10.617 | .99366 | .50676 | -.00454 | .50868 | 1.0381 | .04919 | .50290 | .48605 | .51565 |
| #2 | 10.542 | .99040 | .50579 | -.00568 | .50926 | 1.0343 | .06895 | .50316 | .48581 | .51176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9303.2** | **117600.** | **10052.** |
| Stddev | 3.6 | 576. | 73. |
| %RSD | .03885 | .49016 | .72596 |
| #1 | 9300.6 | 117190. | 10001. |
| #2 | 9305.7 | 118010. | 10104. |

Sample Name: CCB  Acquired: 8/15/2013 1:32:34  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00736** | **.00357** | **.00201** | **-.00028** | **-.00005** | **.00170** | **-.00419** | **-.00015** | **.00007** | **-.00011** | **-.00065** |
| Stddev | .00012 | .00003 | .00280 | .00032 | .00005 | .00000 | .00016 | .00276 | .00002 | .00016 | .00005 | .00035 |
| %RSD | 33.276 | .43630 | 78.528 | 16.110 | 18.543 | 2.3314 | 9.4152 | 65.964 | 13.050 | 234.63 | 45.461 | 54.649 |
| #1 | .00043 | .00734 | .00159 | .00224 | -.00024 | -.00005 | .00181 | -.00615 | -.00014 | -.00005 | -.00015 | -.00040 |
| #2 | .00027 | .00739 | .00555 | .00178 | -.00031 | -.00005 | .00158 | -.00224 | -.00016 | .00018 | -.00008 | -.00090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00439** | **.12302** | W **.00330** | **.00313** | **.00019** | **.00070** | **.09022** | **.00010** | **.00155** | **-.00044** | **.00238** | **.00166** |
| Stddev | .00093 | .02792 | .00189 | .00204 | .00004 | .00009 | .00346 | .00010 | .00028 | .00029 | .00015 | .00379 |
| %RSD | 21.152 | 22.697 | 57.072 | 65.341 | 20.628 | 13.102 | 3.8323 | 97.973 | 18.145 | 65.713 | 6.1408 | 227.51 |
| #1 | .00373 | .10328 | .00464 | .00168 | .00021 | .00064 | .09266 | .00017 | .00175 | -.00064 | .00228 | .00434 |
| #2 | .00505 | .14276 | .00197 | .00457 | .00016 | .00077 | .08777 | .00003 | .00135 | -.00023 | .00248 | -.00101 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .00261 | | | | | | | | | |
| Low Limit | | | -.00261 | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00151** | **-.00541** | **-.01158** | **.00074** | **.00009** | **-.00034** | **.00056** | **-.00073** | **.03012** | **.00054** | **.00140** | **-.00057** |
| Stddev | .00200 | .00007 | .00016 | .00066 | .00000 | .00101 | .00036 | .00029 | .02345 | .00029 | .00001 | .00046 |
| %RSD | 131.80 | 1.3858 | 1.3858 | 90.078 | 2.3752 | 294.66 | 63.968 | 40.136 | 77.849 | 53.928 | .89048 | 80.637 |
| #1 | .00010 | -.00536 | -.01146 | .00027 | .00010 | .00037 | .00031 | -.00094 | .04670 | .00033 | .00139 | -.00090 |
| #2 | .00293 | -.00546 | -.01169 | .00121 | .00009 | -.00106 | .00082 | -.00053 | .01354 | .00075 | .00141 | -.00025 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9256.4** | **120940.** | **10008.** |
| Stddev | .9 | 115. | 35. |
| %RSD | .01007 | .09516 | .34670 |
| #1 | 9255.7 | 120860. | 10033. |
| #2 | 9257.0 | 121020. | 9983.5 |

Sample Name: CCVL-2197715 Acquired: 8/15/2013 1:34:49 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01015** | **.11003** | **.01470** | **.09583** | **.00983** | **.00096** | **.11015** | **.20421** | **.00508** | **.01084** | **.01036** | **.01512** | **.10680** |
| Stddev | .00022 | .00057 | .00159 | .00026 | .00002 | .00001 | .00048 | .00117 | .00036 | .00000 | .00004 | .00001 | .00073 |
| %RSD | 2.1591 | .51726 | 10.844 | .27506 | .22341 | 1.0653 | .43281 | .57447 | 7.1552 | .03910 | .41685 | .07475 | .67951 |
| #1 | .00999 | .10963 | .01583 | .09565 | .00984 | .00095 | .10981 | .20338 | .00482 | .01084 | .01033 | .01513 | .10628 |
| #2 | .01030 | .11043 | .01357 | .09602 | .00981 | .00097 | .11049 | .20504 | .00534 | .01084 | .01039 | .01511 | .10731 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1121** | **.01060** | **.19714** | **.01042** | **.01950** | **1.1217** | **.04188** | **2.7931** | **.00931** | **.00204** | **.00995** | **.01706** | **.47919** |
| Stddev | .0141 | .00115 | .00081 | .00001 | .00006 | .0014 | .00006 | .0048 | .00042 | .00062 | .00272 | .00121 | .00091 |
| %RSD | .45394 | 10.862 | .41195 | .13456 | .29472 | .12647 | .13879 | .17034 | 4.4982 | 30.184 | 27.295 | 7.1136 | .18891 |
| #1 | 3.1021 | .01141 | .19656 | .01043 | .01954 | 1.1227 | .04192 | 2.7964 | .00901 | .00161 | .00803 | .01620 | .47983 |
| #2 | 3.1221 | .00979 | .19771 | .01041 | .01946 | 1.1207 | .04184 | 2.7897 | .00960 | .00248 | .01187 | .01791 | .47854 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0255** | **.10094** | **.01030** | **.01372** | **.01013** | **.01472** | F **.09461** | **.01032** | **.02115** | **.01448** |
| Stddev | .0019 | .00013 | .00010 | .00047 | .00001 | .00098 | .02348 | .00021 | .00001 | .00098 |
| %RSD | .18891 | .13340 | .97989 | 3.4404 | .12558 | 6.6391 | 24.816 | 2.0017 | .06413 | 6.7842 |
| #1 | 1.0268 | .10104 | .01023 | .01405 | .01013 | .01403 | .07801 | .01018 | .02116 | .01379 |
| #2 | 1.0241 | .10085 | .01037 | .01338 | .01012 | .01541 | .11121 | .01047 | .02114 | .01518 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9279.0** | **119610.** | **9853.3** |
| Stddev | 4.6 | 378. | 128.0 |
| %RSD | .04941 | .31571 | 1.2990 |
| #1 | 9275.7 | 119880. | 9943.8 |
| #2 | 9282.2 | 119340. | 9762.8 |

Sample Name: 280-45026-a-8-b  Acquired: 8/15/2013 1:37:06  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00113** | **64.149** | **.04755** | **.01904** | **.27901** | **.00282** | **.00165** | **142.23** | **.00654** | **.05022** |
| Stddev | .00016 | .031 | .00158 | .00003 | .00011 | .00002 | .00067 | .05 | .00007 | .00013 |
| %RSD | 14.199 | .04834 | 3.3276 | .14355 | .04108 | .85788 | 40.492 | .03287 | 1.1015 | .26231 |
| #1 | -.00125 | 64.127 | .04867 | .01903 | .27909 | .00281 | .00212 | 142.26 | .00649 | .05013 |
| #2 | -.00102 | 64.171 | .04643 | .01906 | .27893 | .00284 | .00118 | 142.19 | .00659 | .05032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08737** | **.27607** | **141.06** | **6.5943** | **.12068** | **28.824** | **7.2735** | **.00240** | **.45436** | **.10629** |
| Stddev | .00010 | .00059 | .01 | .0049 | .00345 | .084 | .0286 | .00016 | .01029 | .00037 |
| %RSD | .11931 | .21194 | .00894 | .07441 | 2.8613 | .29054 | .39394 | 6.7589 | 2.2637 | .34635 |
| #1 | .08744 | .27648 | 141.07 | 6.5978 | .11824 | 28.765 | 7.2532 | .00228 | .44709 | .10603 |
| #2 | .08729 | .27566 | 141.05 | 6.5909 | .12312 | 28.883 | 7.2937 | .00251 | .46163 | .10655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.4673** | **.32534** | **1.3490** | **.00372** | **.00275** | **1.6137** | **3.4532** | **.00590** | **.33759** | **.01446** |
| Stddev | .0047 | .00017 | .0024 | .00101 | .00197 | .0034 | .0072 | .00027 | .00055 | .00236 |
| %RSD | .10587 | .05287 | .17573 | 27.182 | 71.522 | .20947 | .20947 | 4.5647 | .16209 | 16.317 |
| #1 | 4.4640 | .32522 | 1.3473 | .00443 | .00136 | 1.6113 | 3.4481 | .00571 | .33720 | .01613 |
| #2 | 4.4707 | .32547 | 1.3507 | .00300 | .00414 | 1.6161 | 3.4584 | .00609 | .33797 | .01279 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28206** | **-.00245** | F **-.14612** | **.15612** | **.46947** | **.01397** |
| Stddev | .00094 | .00083 | .04806 | .00009 | .00052 | .00001 |
| %RSD | .33255 | 33.894 | 32.894 | .05612 | .11106 | .10664 |
| #1 | .28139 | -.00186 | -.18010 | .15618 | .46984 | .01396 |
| #2 | .28272 | -.00304 | -.11213 | .15606 | .46910 | .01398 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10025.** | **124870.** | **11230.** |
| Stddev | 11. | 711. | 43. |
| %RSD | .10553 | .56922 | .38440 |
| #1 | 10032. | 125370. | 11200. |
| #2 | 10018. | 124360. | 11261. |

Sample Name: 280-45026-a-9-c  Acquired: 8/15/2013 1:39:25  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00142** | **94.503** | **.03954** | **.01702** | **.51297** | **.00375** | **.00001** | **27.267** | **.00393** | **.05317** |
| Stddev | .00047 | .241 | .00099 | .00031 | .00114 | .00002 | .00147 | .049 | .00002 | .00010 |
| %RSD | 32.891 | .25531 | 2.5111 | 1.7992 | .22321 | .48867 | 14146. | .18038 | .45105 | .19045 |
| #1 | -.00176 | 94.332 | .03884 | .01723 | .51217 | .00374 | -.00103 | 27.232 | .00394 | .05325 |
| #2 | -.00109 | 94.674 | .04024 | .01680 | .51378 | .00376 | .00105 | 27.302 | .00392 | .05310 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09866** | **.18212** | **165.94** | **6.0677** | **.11972** | **21.802** | W **10.203** | **.00522** | **4.4943** | **.10840** |
| Stddev | .00015 | .00057 | .65 | .0308 | .00112 | .050 | .102 | .00036 | .0004 | .00011 |
| %RSD | .15343 | .31487 | .38973 | .50785 | .93308 | .23036 | .99719 | 6.9322 | .00995 | .10001 |
| #1 | .09876 | .18253 | 165.48 | 6.0459 | .11893 | 21.766 | 10.275 | .00496 | 4.4939 | .10832 |
| #2 | .09855 | .18172 | 166.40 | 6.0895 | .12051 | 21.837 | 10.131 | .00547 | 4.4946 | .10848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.6461** | **.12856** | **.89182** | **.00003** | **.00106** | **2.2706** | **4.8591** | **.00724** | **.31527** | **.01701** |
| Stddev | .0033 | .00090 | .00054 | .00255 | .00045 | .0124 | .0265 | .00016 | .00116 | .00147 |
| %RSD | .05887 | .69787 | .06064 | 8998.1 | 41.930 | .54433 | .54433 | 2.1774 | .36869 | 8.6303 |
| #1 | 5.6484 | .12793 | .89143 | -.00177 | .00138 | 2.2794 | 4.8779 | .00736 | .31445 | .01804 |
| #2 | 5.6437 | .12920 | .89220 | .00183 | .00075 | 2.2619 | 4.8404 | .00713 | .31609 | .01597 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.61255** | **-.00286** | F **-.16379** | **.19098** | **.53113** | **.01124** |
| Stddev | .00230 | .00033 | .00209 | .00022 | .00013 | .00104 |
| %RSD | .37582 | 11.573 | 1.2762 | .11320 | .02421 | 9.2393 |
| #1 | .61417 | -.00262 | -.16232 | .19083 | .53122 | .01050 |
| #2 | .61092 | -.00309 | -.16527 | .19113 | .53104 | .01197 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10053.** | **125560.** | **10939.** |
| Stddev | 26. | 193. | 41. |
| %RSD | .25448 | .15380 | .37323 |
| #1 | 10071. | 125700. | 10967. |
| #2 | 10035. | 125430. | 10910. |

Sample Name: 280-45026-a-10-c  Acquired: 8/15/2013 1:41:42  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00217** | **82.885** | **.04577** | **.01566** | **.33501** | **.00363** | **.00025** | **42.776** | **.00181** | **.05368** |
| Stddev | .00017 | .162 | .00072 | .00012 | .00044 | .00002 | .00127 | .079 | .00006 | .00025 |
| %RSD | 7.9618 | .19598 | 1.5827 | .75168 | .13185 | .53966 | 500.23 | .18466 | 3.1930 | .47304 |
| #1 | -.00229 | 82.770 | .04526 | .01558 | .33470 | .00361 | .00115 | 42.720 | .00185 | .05385 |
| #2 | -.00205 | 83.000 | .04628 | .01574 | .33532 | .00364 | -.00064 | 42.832 | .00177 | .05350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10335** | **.47319** | **197.06** | **7.0115** | **.14614** | **31.362** | W **10.432** | **.00343** | **1.8725** | **.13153** |
| Stddev | .00012 | .00239 | .70 | .0193 | .00174 | .199 | .112 | .00002 | .0125 | .00025 |
| %RSD | .11444 | .50484 | .35742 | .27458 | 1.1909 | .63506 | 1.0753 | .45740 | .66561 | .18886 |
| #1 | .10327 | .47151 | 196.56 | 7.0251 | .14737 | 31.222 | 10.511 | .00344 | 1.8637 | .13171 |
| #2 | .10343 | .47488 | 197.55 | 6.9979 | .14491 | 31.503 | 10.352 | .00342 | 1.8813 | .13136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.8703** | **.05717** | **.39935** | **-.00099** | **.00198** | **1.6881** | **3.6126** | **.00413** | **.08694** | **.02537** |
| Stddev | .0078 | .00079 | .00524 | .00105 | .00268 | .0113 | .0241 | .00024 | .00038 | .00059 |
| %RSD | .08785 | 1.3800 | 1.3130 | 106.01 | 135.01 | .66686 | .66686 | 5.8215 | .43681 | 2.3214 |
| #1 | 8.8758 | .05772 | .39564 | -.00173 | .00009 | 1.6802 | 3.5956 | .00396 | .08667 | .02579 |
| #2 | 8.8648 | .05661 | .40305 | -.00025 | .00388 | 1.6961 | 3.6297 | .00430 | .08720 | .02495 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29244** | **-.00352** | F **-.23270** | **.17645** | **.44975** | **.04456** |
| Stddev | .00301 | .00076 | .02037 | .00097 | .00257 | .00157 |
| %RSD | 1.0306 | 21.693 | 8.7525 | .55209 | .57176 | 3.5325 |
| #1 | .29031 | -.00406 | -.24710 | .17576 | .44793 | .04345 |
| #2 | .29457 | -.00298 | -.21830 | .17714 | .45156 | .04568 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **11462.** | **142330.** | **12614.** |
| Stddev | 18. | 650. | 38. |
| %RSD | .15383 | .45665 | .29885 |
| #1 | 11449. | 142790. | 12588. |
| #2 | 11474. | 141870. | 12641. |

Sample Name: 280-45026-a-14-b  Acquired: 8/15/2013 1:44:06  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **71.111** | **.03843** | **.01990** | **.22504** | **.00352** | **-.00013** | **18.064** | **.00203** | **.05539** |
| Stddev | .00009 | .045 | .00276 | .00014 | .00027 | .00005 | .00280 | .008 | .00003 | .00024 |
| %RSD | 15.657 | .06263 | 7.1935 | .68606 | .11931 | 1.4874 | 2143.8 | .04384 | 1.3172 | .43841 |
| #1 | -.00052 | 71.079 | .04038 | .02000 | .22523 | .00356 | -.00211 | 18.070 | .00201 | .05556 |
| #2 | -.00065 | 71.142 | .03647 | .01980 | .22485 | .00349 | .00185 | 18.059 | .00205 | .05522 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09621** | **.30277** | **161.12** | **8.4340** | **.13466** | **28.328** | **5.5016** | **.00410** | **.73281** | **.13666** |
| Stddev | .00064 | .00134 | .22 | .0131 | .00118 | .080 | .0099 | .00008 | .00661 | .00081 |
| %RSD | .66875 | .44095 | .13666 | .15574 | .87639 | .28303 | .17950 | 2.0508 | .90174 | .59209 |
| #1 | .09667 | .30182 | 161.28 | 8.4433 | .13383 | 28.384 | 5.5086 | .00404 | .73748 | .13724 |
| #2 | .09576 | .30371 | 160.97 | 8.4247 | .13550 | 28.271 | 5.4946 | .00416 | .72814 | .13609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.8855** | **.09141** | **.35586** | **.00057** | **.00135** | **1.6466** | **3.5238** | **.00496** | **.05834** | **.02617** |
| Stddev | .0028 | .00073 | .00163 | .00097 | .00115 | .0236 | .0506 | .00009 | .00027 | .00038 |
| %RSD | .05680 | .79766 | .45867 | 170.37 | 85.004 | 1.4350 | 1.4350 | 1.8703 | .45491 | 1.4670 |
| #1 | 4.8835 | .09192 | .35701 | .00126 | .00054 | 1.6299 | 3.4880 | .00503 | .05815 | .02590 |
| #2 | 4.8874 | .09089 | .35470 | -.00012 | .00216 | 1.6633 | 3.5595 | .00490 | .05853 | .02644 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35998** | **-.00297** | F **-.17016** | **.14201** | **.47444** | **.03912** |
| Stddev | .00280 | .00013 | .00419 | .00070 | .00240 | .00040 |
| %RSD | .77867 | 4.2863 | 2.4600 | .49449 | .50645 | 1.0242 |
| #1 | .36196 | -.00307 | -.17312 | .14251 | .47614 | .03883 |
| #2 | .35800 | -.00288 | -.16720 | .14152 | .47274 | .03940 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10528.** | **131980.** | **11463.** |
| Stddev | 10. | 95. | 22. |
| %RSD | .09864 | .07191 | .19625 |
| #1 | 10535. | 131920. | 11447. |
| #2 | 10521. | 132050. | 11479. |

Sample Name: 280-45026-a-15-b  Acquired: 8/15/2013 1:46:24  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **77.606** | **.04990** | **.02490** | **.38006** | **.00397** | **.00075** | **71.381** | **.00375** | **.06632** |
| Stddev | .00063 | .068 | .00098 | .00052 | .00075 | .00000 | .00022 | .043 | .00001 | .00031 |
| %RSD | 91.871 | .08742 | 1.9731 | 2.0996 | .19836 | .09080 | 29.517 | .06039 | .26193 | .46179 |
| #1 | -.00114 | 77.654 | .04921 | .02526 | .37952 | .00397 | .00060 | 71.350 | .00374 | .06610 |
| #2 | -.00024 | 77.558 | .05060 | .02453 | .38059 | .00397 | .00091 | 71.411 | .00376 | .06653 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14593** | **.55251** | **167.07** | **9.0436** | **.14133** | **33.957** | **5.4941** | **.00721** | **.40840** | **.15787** |
| Stddev | .00048 | .00286 | .14 | .0875 | .00545 | .113 | .0153 | .00010 | .00995 | .00031 |
| %RSD | .32756 | .51840 | .08218 | .96794 | 3.8573 | .33152 | .27872 | 1.3965 | 2.4353 | .19476 |
| #1 | .14559 | .55048 | 166.97 | 8.9817 | .13747 | 33.877 | 5.5049 | .00714 | .40136 | .15765 |
| #2 | .14626 | .55454 | 167.17 | 9.1055 | .14518 | 34.037 | 5.4832 | .00729 | .41543 | .15809 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.7139** | **.15692** | **1.7168** | **.00247** | **.00225** | **2.1507** | **4.6025** | **.00866** | **.27381** | **.03148** |
| Stddev | .0021 | .00059 | .0043 | .00064 | .00146 | .0047 | .0101 | .00035 | .00021 | .00082 |
| %RSD | .04538 | .37591 | .24956 | 26.051 | 64.680 | .21924 | .21924 | 4.0859 | .07806 | 2.6134 |
| #1 | 4.7154 | .15734 | 1.7138 | .00201 | .00328 | 2.1541 | 4.6097 | .00891 | .27366 | .03090 |
| #2 | 4.7124 | .15650 | 1.7199 | .00292 | .00122 | 2.1474 | 4.5954 | .00841 | .27396 | .03207 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28530** | **-.00357** | F **-.12206** | **.14049** | **.57226** | **.02358** |
| Stddev | .00050 | .00032 | .01648 | .00001 | .00016 | .00204 |
| %RSD | .17430 | 9.0145 | 13.501 | .00696 | .02789 | 8.6456 |
| #1 | .28494 | -.00335 | -.13371 | .14048 | .57238 | .02502 |
| #2 | .28565 | -.00380 | -.11040 | .14049 | .57215 | .02213 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10131.** | **125940.** | **11113.** |
| Stddev | 4. | 136. | 41. |
| %RSD | .03501 | .10836 | .36977 |
| #1 | 10133. | 125840. | 11084. |
| #2 | 10128. | 126040. | 11142. |

Sample Name: 280-45026-a-16-b  Acquired: 8/15/2013 1:48:40  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00140** | **69.112** | **.04742** | **.01625** | **.32441** | **.00304** | **-.00048** | **19.353** | **.00136** | **.06027** |
| Stddev | .00028 | .104 | .00078 | .00036 | .00080 | .00004 | .00231 | .052 | .00006 | .00062 |
| %RSD | 19.853 | .14983 | 1.6358 | 2.2037 | .24534 | 1.2400 | 482.47 | .26904 | 4.5271 | 1.0349 |
| #1 | -.00160 | 69.038 | .04797 | .01650 | .32385 | .00301 | .00116 | 19.316 | .00132 | .06071 |
| #2 | -.00121 | 69.185 | .04688 | .01600 | .32497 | .00306 | -.00211 | 19.390 | .00141 | .05983 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11052** | **.49729** | **164.59** | **7.2505** | **.12545** | **30.357** | W **10.247** | **.00456** | **.30537** | **.12138** |
| Stddev | .00050 | .00081 | .70 | .0065 | .00161 | .083 | .007 | .00008 | .01071 | .00088 |
| %RSD | .45037 | .16234 | .42411 | .09000 | 1.2818 | .27412 | .07183 | 1.7290 | 3.5086 | .72777 |
| #1 | .11087 | .49786 | 164.10 | 7.2551 | .12658 | 30.415 | 10.253 | .00462 | .31295 | .12201 |
| #2 | .11017 | .49671 | 165.09 | 7.2459 | .12431 | 30.298 | 10.242 | .00451 | .29779 | .12076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.5352** | **.04617** | **.28851** | **-.00025** | **-.00026** | **1.7138** | **3.6675** | **.00357** | **.06063** | **.02637** |
| Stddev | .0027 | .00127 | .00090 | .00159 | .00469 | .0022 | .0047 | .00007 | .00029 | .00026 |
| %RSD | .06073 | 2.7414 | .31126 | 628.83 | 1822.1 | .12940 | .12940 | 2.0928 | .48391 | .99286 |
| #1 | 4.5333 | .04707 | .28914 | -.00138 | .00306 | 1.7122 | 3.6641 | .00362 | .06043 | .02619 |
| #2 | 4.5372 | .04528 | .28787 | .00087 | -.00357 | 1.7153 | 3.6708 | .00351 | .06084 | .02656 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30741** | **-.00239** | F **-.18679** | **.13052** | **.68289** | **.03948** |
| Stddev | .00283 | .00065 | .04129 | .00019 | .00298 | .00112 |
| %RSD | .91972 | 27.332 | 22.104 | .14653 | .43666 | 2.8342 |
| #1 | .30941 | -.00286 | -.15759 | .13039 | .68500 | .03869 |
| #2 | .30541 | -.00193 | -.21598 | .13066 | .68078 | .04027 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10712.** | **133790.** | **11697.** |
| Stddev | 25. | 76. | 85. |
| %RSD | .23031 | .05714 | .72830 |
| #1 | 10694. | 133730. | 11757. |
| #2 | 10729. | 133840. | 11636. |

Sample Name: 280-45026-a-17-b  Acquired: 8/15/2013 1:50:59  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00163** | **78.231** | **.04947** | **.01821** | **.35195** | **.00349** | **-.00019** | **61.589** | **.00166** | **.06427** |
| Stddev | .00037 | .151 | .00250 | .00009 | .00032 | .00001 | .00120 | .120 | .00008 | .00030 |
| %RSD | 22.817 | .19298 | 5.0499 | .49753 | .09140 | .34047 | 630.76 | .19548 | 4.6710 | .47310 |
| #1 | -.00136 | 78.338 | .04771 | .01815 | .35218 | .00350 | -.00104 | 61.674 | .00171 | .06448 |
| #2 | -.00189 | 78.124 | .05124 | .01827 | .35173 | .00348 | .00066 | 61.504 | .00160 | .06405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22765** | **.34107** | **185.15** | **8.1737** | **.14329** | **37.562** | W **10.233** | **.00701** | **.41225** | **.13692** |
| Stddev | .00059 | .00061 | .34 | .0500 | .00093 | .004 | .077 | .00010 | .01017 | .00075 |
| %RSD | .25833 | .17908 | .18349 | .61216 | .64652 | .01145 | .75149 | 1.4423 | 2.4661 | .54631 |
| #1 | .22807 | .34150 | 185.39 | 8.2091 | .14394 | 37.559 | 10.287 | .00694 | .41944 | .13744 |
| #2 | .22723 | .34064 | 184.91 | 8.1383 | .14263 | 37.565 | 10.178 | .00708 | .40506 | .13639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.6040** | **.06838** | **.61585** | **.00146** | **.00184** | **2.1307** | **4.5597** | **.00373** | **.14363** | **.02475** |
| Stddev | .0025 | .00012 | .00319 | .00095 | .00412 | .0004 | .0007 | .00077 | .00032 | .00000 |
| %RSD | .05348 | .17870 | .51807 | 64.967 | 224.14 | .01633 | .01633 | 20.520 | .22005 | .00431 |
| #1 | 4.6022 | .06830 | .61359 | .00079 | .00475 | 2.1305 | 4.5592 | .00428 | .14385 | .02475 |
| #2 | 4.6057 | .06847 | .61810 | .00213 | -.00107 | 2.1309 | 4.5602 | .00319 | .14341 | .02475 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38087** | **-.00172** | F **-.19650** | **.14929** | **.47363** | **.03534** |
| Stddev | .00103 | .00156 | .01757 | .00029 | .00060 | .00003 |
| %RSD | .27019 | 90.403 | 8.9414 | .19260 | .12684 | .07399 |
| #1 | .38014 | -.00282 | -.20892 | .14949 | .47320 | .03532 |
| #2 | .38159 | -.00062 | -.18407 | .14909 | .47405 | .03536 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10500.** | **132030.** | **11637.** |
| Stddev | 18. | 527. | 44. |
| %RSD | .17062 | .39912 | .37528 |
| #1 | 10488. | 132400. | 11606. |
| #2 | 10513. | 131660. | 11668. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 1:53:25 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **50.141** | **.00176** | **.00225** | **.00058** | **-.00007** | **1.0086** | **-.00661** | **.00000** | **.00034** | **-.00022** | **.00160** | **48.637** |
| Stddev | .00042 | .390 | .00142 | .00002 | .00025 | .00003 | .0035 | .00159 | .00009 | .00014 | .00004 | .00043 | .605 |
| %RSD | 217.10 | .77782 | 80.713 | .99123 | 43.466 | 42.992 | .35052 | 24.026 | 3841.2 | 41.520 | 19.420 | 27.019 | 1.2435 |
| #1 | -.00010 | 49.865 | .00076 | .00227 | .00040 | -.00009 | 1.0061 | -.00549 | .00007 | .00024 | -.00025 | .00191 | 48.209 |
| #2 | .00050 | 50.416 | .00276 | .00224 | .00075 | -.00005 | 1.0111 | -.00773 | -.00006 | .00044 | -.00019 | .00130 | 49.065 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16177** | **-.00032** | **-.00997** | **.00063** | **.00004** | **249.08** | **.00065** | **.00405** | **.00122** | **5.1258** | **.00062** | **-.00360** | **-.00735** |
| Stddev | .01532 | .00097 | .00227 | .00004 | .00009 | 2.69 | .00011 | .00206 | .00038 | .0017 | .00188 | .00113 | .00664 |
| %RSD | 9.4721 | 299.03 | 22.730 | 5.8521 | 209.69 | 1.0815 | 16.636 | 50.699 | 30.764 | .03323 | 304.69 | 31.271 | 90.251 |
| #1 | .17260 | .00036 | -.00837 | .00065 | -.00002 | 247.17 | .00058 | .00260 | .00096 | 5.1246 | -.00071 | -.00440 | -.00266 |
| #2 | .15093 | -.00101 | -.01157 | .00060 | .00011 | 250.98 | .00073 | .00551 | .00149 | 5.1270 | .00195 | -.00280 | -.01205 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01574** | **.00072** | **.00044** | **4.9516** | **-.00015** | **-.00049** | **10.049** | **.00159** | **.00107** | **.02200** |
| Stddev | .01420 | .00077 | .00015 | .0148 | .00007 | .00072 | .040 | .00038 | .00033 | .00296 |
| %RSD | 90.251 | 105.79 | 34.874 | .29881 | 47.439 | 145.52 | .39389 | 23.864 | 31.240 | 13.471 |
| #1 | -.00569 | .00018 | .00033 | 4.9411 | -.00020 | .00001 | 10.077 | .00132 | .00083 | .01991 |
| #2 | -.02578 | .00127 | .00055 | 4.9620 | -.00010 | -.00100 | 10.021 | .00185 | .00130 | .02410 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9061.7** | **112550.** | **9875.3** |
| Stddev | 10.1 | 580. | 39.7 |
| %RSD | .11197 | .51540 | .40178 |
| #1 | 9068.9 | 112140. | 9847.2 |
| #2 | 9054.5 | 112960. | 9903.3 |

Sample Name: CCV-2194461 Acquired: 8/15/2013 1:55:47 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50050** | **.53103** | **.98580** | **.50112** | **.47766** | **.49568** | **.00165** | **4.9562** | **.50805** | **.51406** | **.49520** | **.51282** | **2.5079** |
| Stddev | .00084 | .00361 | .00033 | .00025 | .00284 | .00154 | .00047 | .0205 | .00023 | .00025 | .00040 | .00088 | .0121 |
| %RSD | .16823 | .67954 | .03382 | .05075 | .59445 | .31138 | 28.489 | .41279 | .04512 | .04851 | .08040 | .17242 | .48047 |
| #1 | .50110 | .52848 | .98556 | .50130 | .47565 | .49459 | .00198 | 4.9417 | .50789 | .51424 | .49492 | .51344 | 2.4993 |
| #2 | .49990 | .53358 | .98603 | .50094 | .47967 | .49677 | .00132 | 4.9706 | .50821 | .51389 | .49548 | .51219 | 2.5164 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.451** | **.96556** | **19.334** | **.50870** | **.48958** | **5.2390** | **.50139** | **.97671** | **1.0192** | **.00162** | **1.0400** | **.99947** | **4.8953** |
| Stddev | .271 | .00656 | .019 | .00040 | .00254 | .0152 | .00074 | .00216 | .0049 | .00106 | .0033 | .00147 | .0197 |
| %RSD | .54827 | .67927 | .09598 | .07777 | .51816 | .29094 | .14812 | .22089 | .48183 | 65.671 | .32044 | .14663 | .40234 |
| #1 | 49.260 | .96092 | 19.320 | .50898 | .49138 | 5.2283 | .50087 | .97824 | 1.0226 | .00237 | 1.0424 | .99843 | 4.8814 |
| #2 | 49.643 | .97020 | 19.347 | .50842 | .48779 | 5.2498 | .50192 | .97519 | 1.0157 | .00087 | 1.0377 | 1.0005 | 4.9092 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.476** | **.98484** | **.50483** | **-.00497** | **.51421** | **1.0421** | **.02200** | **.50396** | **.48770** | **.51004** |
| Stddev | .042 | .00128 | .00324 | .00182 | .00019 | .0018 | .03064 | .00051 | .00070 | .00284 |
| %RSD | .40234 | .12985 | .64130 | 36.711 | .03766 | .17048 | 139.29 | .10173 | .14304 | .55733 |
| #1 | 10.446 | .98575 | .50254 | -.00368 | .51434 | 1.0433 | .00033 | .50432 | .48721 | .50803 |
| #2 | 10.506 | .98394 | .50712 | -.00626 | .51407 | 1.0408 | .04366 | .50360 | .48819 | .51205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9231.0** | **116580.** | **9960.6** |
| Stddev | .9 | 318. | 6.9 |
| %RSD | .01012 | .27246 | .06889 |
| #1 | 9230.3 | 116800. | 9955.7 |
| #2 | 9231.7 | 116350. | 9965.4 |

Sample Name: CCB  Acquired: 8/15/2013 1:57:55  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00945** | **.00302** | **.00186** | **-.00026** | **.00004** | **.00160** | **-.00226** | **.00016** | **.00019** | **-.00007** | **-.00058** | **.02089** |
| Stddev | .00058 | .00032 | .00021 | .00019 | .00019 | .00001 | .00047 | .00450 | .00002 | .00005 | .00005 | .00042 | .00036 |
| %RSD | 346.01 | 3.3727 | 6.9626 | 10.366 | 71.487 | 34.123 | 29.466 | 199.67 | 9.4723 | 25.635 | 75.713 | 72.617 | 1.7159 |
| #1 | -.00024 | .00967 | .00288 | .00200 | -.00040 | .00003 | .00194 | .00093 | .00017 | .00022 | -.00011 | -.00028 | .02064 |
| #2 | .00058 | .00922 | .00317 | .00173 | -.00013 | .00005 | .00127 | -.00544 | .00015 | .00015 | -.00003 | -.00088 | .02115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12998** | **.00196** | **.00471** | F **.00094** | **.00041** | **.08873** | **.00015** | **.00187** | **-.00077** | **.00079** | **.00140** | **.00140** | **-.00429** |
| Stddev | .05993 | .00190 | .00038 | .00005 | .00008 | .00232 | .00025 | .00046 | .00111 | .00145 | .00157 | .00023 | .00551 |
| %RSD | 46.106 | 97.267 | 8.0965 | 5.8126 | 20.187 | 2.6190 | 164.28 | 24.422 | 144.86 | 183.71 | 111.59 | 16.157 | 128.36 |
| #1 | .17235 | .00330 | .00498 | .00098 | .00046 | .08709 | -.00002 | .00219 | .00002 | .00181 | .00251 | .00124 | -.00819 |
| #2 | .08760 | .00061 | .00444 | .00090 | .00035 | .09038 | .00033 | .00154 | -.00155 | -.00024 | .00030 | .00156 | -.00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00050 | | | | | | | | | |
| Low Limit | | | | -.00050 | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00919** | **.00056** | **.00006** | **-.00013** | **.00011** | **-.00016** | **.03907** | **.00059** | **.00101** | **-.00044** |
| Stddev | .01180 | .00010 | .00003 | .00110 | .00026 | .00030 | .01301 | .00004 | .00015 | .00197 |
| %RSD | 128.36 | 18.062 | 53.186 | 850.00 | 237.66 | 189.85 | 33.300 | 6.0750 | 15.187 | 447.19 |
| #1 | -.01753 | .00063 | .00004 | .00065 | .00029 | .00005 | .04826 | .00061 | .00112 | .00095 |
| #2 | -.00085 | .00049 | .00008 | -.00091 | -.00007 | -.00037 | .02987 | .00056 | .00090 | -.00184 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9286.1** | **118990.** | **9882.7** |
| Stddev | 7.1 | 216. | 52.9 |
| %RSD | .07630 | .18193 | .53523 |
| #1 | 9291.1 | 119140. | 9920.1 |
| #2 | 9281.0 | 118840. | 9845.3 |

Sample Name: CCVL-2197715 Acquired: 8/15/2013 2:00:11 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00994** | **.11794** | **.01515** | **.09485** | **.00970** | **.00098** | **.11093** | **.20847** | **.00512** | **.01090** | **.01011** | **.01448** | **.12091** |
| Stddev | .00070 | .00023 | .00196 | .00013 | .00013 | .00003 | .00176 | .00077 | .00017 | .00008 | .00005 | .00001 | .00272 |
| %RSD | 7.0600 | .19795 | 12.963 | .13851 | 1.3765 | 3.0895 | 1.5824 | .36708 | 3.3177 | .76381 | .52510 | .03637 | 2.2491 |
| #1 | .00944 | .11810 | .01377 | .09476 | .00980 | .00100 | .11217 | .20793 | .00524 | .01084 | .01015 | .01448 | .11899 |
| #2 | .01043 | .11777 | .01654 | .09495 | .00961 | .00096 | .10969 | .20901 | .00500 | .01096 | .01008 | .01447 | .12284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1068** | **.00959** | **.20186** | **.01138** | **.01906** | **1.1461** | **.04106** | **2.7698** | **.00921** | **.00259** | **.00939** | **.01583** | **.46720** |
| Stddev | .0855 | .00185 | .00021 | .00003 | .00005 | .0061 | .00040 | .0006 | .00098 | .00120 | .00171 | .00050 | .00510 |
| %RSD | 2.7522 | 19.312 | .10303 | .28254 | .23707 | .53086 | .98162 | .02028 | 10.634 | 46.146 | 18.186 | 3.1433 | 1.0920 |
| #1 | 3.1672 | .00828 | .20200 | .01135 | .01909 | 1.1418 | .04078 | 2.7694 | .00852 | .00175 | .00818 | .01548 | .46359 |
| #2 | 3.0463 | .01090 | .20171 | .01140 | .01903 | 1.1504 | .04135 | 2.7702 | .00990 | .00344 | .01060 | .01619 | .47081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99981** | **.09966** | **.01046** | **.01546** | **.01054** | **.01465** | F **.07876** | **.01056** | **.02279** | **.01401** |
| Stddev | .01092 | .00017 | .00014 | .00164 | .00020 | .00074 | .01329 | .00073 | .00030 | .00117 |
| %RSD | 1.0920 | .16768 | 1.3177 | 10.576 | 1.9358 | 5.0774 | 16.873 | 6.9231 | 1.3270 | 8.3488 |
| #1 | .99209 | .09954 | .01037 | .01662 | .01040 | .01518 | .06936 | .01005 | .02301 | .01318 |
| #2 | 1.0075 | .09978 | .01056 | .01431 | .01069 | .01413 | .08815 | .01108 | .02258 | .01484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9329.3** | **118530.** | **9910.2** |
| Stddev | 5.3 | 57. | 50.0 |
| %RSD | .05684 | .04839 | .50439 |
| #1 | 9333.1 | 118490. | 9874.8 |
| #2 | 9325.6 | 118570. | 9945.5 |

Sample Name: mb 280-187002/1-a  Acquired: 8/15/2013 2:02:28  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.01095** | **.00182** | **.00124** | **.00008** | **.00002** | **.00007** | **.00841** | **-.00004** | **.00022** |
| Stddev | .00009 | .00013 | .00151 | .00009 | .00004 | .00003 | .00005 | .00066 | .00027 | .00006 |
| %RSD | 85.637 | 1.1973 | 82.951 | 7.0187 | 53.934 | 201.78 | 60.619 | 7.8633 | 763.67 | 28.511 |
| #1 | .00004 | .01085 | .00075 | .00131 | .00011 | .00004 | .00011 | .00794 | -.00023 | .00026 |
| #2 | .00016 | .01104 | .00288 | .00118 | .00005 | -.00001 | .00004 | .00888 | .00016 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **-.00088** | **.02523** | **.11761** | **.00202** | **.00437** | **.00110** | **.00002** | **.06750** | **-.00001** |
| Stddev | .00009 | .00020 | .00050 | .04823 | .00064 | .00176 | .00003 | .00015 | .00530 | .00005 |
| %RSD | 145.35 | 23.142 | 1.9925 | 41.014 | 31.829 | 40.287 | 2.5344 | 705.43 | 7.8587 | 767.41 |
| #1 | -.00013 | -.00073 | .02558 | .15171 | .00247 | .00313 | .00108 | -.00009 | .06375 | .00003 |
| #2 | .00000 | -.00102 | .02487 | .08350 | .00156 | .00562 | .00112 | .00013 | .07125 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00376** | **-.00032** | **.00465** | **.00135** | **.00223** | **-.00474** | **-.01014** | **.00025** | **-.00002** | **.00051** |
| Stddev | .00073 | .00000 | .00244 | .00096 | .00392 | .00166 | .00355 | .00052 | .00009 | .00120 |
| %RSD | 19.361 | 1.4296 | 52.404 | 70.690 | 175.58 | 35.009 | 35.009 | 207.79 | 403.88 | 235.66 |
| #1 | .00325 | -.00031 | .00293 | .00068 | .00501 | -.00591 | -.01265 | .00062 | .00004 | -.00034 |
| #2 | .00428 | -.00032 | .00637 | .00203 | -.00054 | -.00357 | -.00763 | -.00012 | -.00009 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00003** | **.02355** | **.00098** | **.00202** | **-.00057** |
| Stddev | .00032 | .00074 | .03169 | .00002 | .00022 | .00103 |
| %RSD | 971.98 | 2458.5 | 134.56 | 1.6345 | 10.653 | 180.71 |
| #1 | -.00026 | .00056 | .04595 | .00097 | .00187 | -.00130 |
| #2 | .00020 | -.00050 | .00114 | .00099 | .00217 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9472.0** | **121010.** | **9985.5** |
| Stddev | 9.9 | 119. | 64.1 |
| %RSD | .10476 | .09798 | .64230 |
| #1 | 9479.0 | 120930. | 10031. |
| #2 | 9465.0 | 121090. | 9940.1 |

Sample Name: lcs 280-187002/2-a  Acquired: 8/15/2013 2:04:43  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04995** | **2.0305** | **1.0254** | **.99944** | **1.9584** | **.05062** | **2.1080** | **50.093** | **.10830** | **.50852** |
| Stddev | .00041 | .0036 | .0019 | .00063 | .0103 | .00017 | .0007 | .077 | .00009 | .00015 |
| %RSD | .81778 | .17622 | .18042 | .06303 | .52630 | .34376 | .03123 | .15403 | .07995 | .02903 |
| #1 | .05024 | 2.0280 | 1.0267 | .99988 | 1.9511 | .05050 | 2.1075 | 50.039 | .10824 | .50841 |
| #2 | .04966 | 2.0331 | 1.0241 | .99899 | 1.9657 | .05074 | 2.1084 | 50.148 | .10836 | .50862 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20124** | **.26224** | **1.0324** | **50.734** | **.97832** | **49.195** | **.51308** | **.96932** | **50.780** | **.49683** |
| Stddev | .00010 | .00013 | .0005 | .095 | .00545 | .175 | .00144 | .00059 | .271 | .00001 |
| %RSD | .05190 | .04818 | .04952 | .18798 | .55733 | .35518 | .28075 | .06068 | .53395 | .00136 |
| #1 | .20117 | .26215 | 1.0321 | 50.666 | .97447 | 49.072 | .51206 | .96973 | 50.588 | .49682 |
| #2 | .20132 | .26233 | 1.0328 | 50.801 | .98218 | 49.319 | .51410 | .96890 | 50.972 | .49683 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.179** | **.50695** | **-.00677** | **.50317** | **2.0320** | **9.8175** | **21.010** | **1.9419** | **1.0336** | **.98216** |
| Stddev | .015 | .00004 | .00279 | .00035 | .0015 | .0053 | .011 | .0029 | .0025 | .00433 |
| %RSD | .14886 | .00756 | 41.183 | .06951 | .07189 | .05388 | .05388 | .14937 | .24110 | .44075 |
| #1 | 10.189 | .50692 | -.00480 | .50342 | 2.0309 | 9.8138 | 21.002 | 1.9440 | 1.0319 | .97910 |
| #2 | 10.168 | .50698 | -.00875 | .50292 | 2.0330 | 9.8213 | 21.018 | 1.9399 | 1.0354 | .98522 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0260** | **2.0354** | **2.1309** | **.51880** | **.49355** | **.51185** |
| Stddev | .0028 | .0056 | .0487 | .00014 | .00306 | .00155 |
| %RSD | .27200 | .27339 | 2.2869 | .02747 | .62099 | .30286 |
| #1 | 1.0241 | 2.0314 | 2.1653 | .51890 | .49138 | .51295 |
| #2 | 1.0280 | 2.0393 | 2.0964 | .51870 | .49571 | .51075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9086.1** | **113890.** | **10010.** |
| Stddev | 5.0 | 500. | 13. |
| %RSD | .05535 | .43893 | .12503 |
| #1 | 9082.6 | 114250. | 10001. |
| #2 | 9089.7 | 113540. | 10018. |

Sample Name: 280-45288-c-9-a  Acquired: 8/15/2013 2:06:49  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00013** | k **.06343** | k **.10082** | k **.07951** | **.10846** | k **.00015** | k **.00516** | **15.419** | k **.00073** | k **.00808** |
| Stddev | .00004 | .00071 | .00203 | .00084 | .00041 | .00000 | .00233 | .032 | .00008 | .00011 |
| %RSD | 27.495 | 1.1213 | 2.0103 | 1.0626 | .37736 | .61104 | 45.084 | .20767 | 10.993 | 1.4133 |
| #1 | k .00011 | k .06293 | k .10225 | k .08010 | .10875 | k .00015 | k .00352 | 15.396 | k .00079 | k .00800 |
| #2 | k .00016 | k .06394 | k .09939 | k .07891 | .10817 | k .00015 | k .00681 | 15.441 | k .00068 | k .00816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00026** | k **.00038** | k **40.870** | **.99693** | k **.00283** | k **6.4007** | k **.09598** | k **.00094** | **59.836** | k **.00459** |
| Stddev | .00004 | .00002 | .020 | .00188 | .00257 | .0107 | .00008 | .00016 | .096 | .00001 |
| %RSD | 16.446 | 4.9477 | .04889 | .18889 | 90.670 | .16757 | .08276 | 16.849 | .16092 | .16751 |
| #1 | k -.00029 | k .00040 | k 40.856 | .99560 | k .00465 | k 6.3931 | k .09593 | k .00083 | 59.767 | k .00459 |
| #2 | k -.00023 | k .00037 | k 40.884 | .99826 | k .00102 | k 6.4083 | k .09604 | k .00105 | 59.904 | k .00460 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **1.0752** | k **.00065** | k **1.7553** | k **-.00063** | k **.00433** | k **10.432** | k **22.324** | k **.00022** | **.20515** | k **.03863** |
| Stddev | .0020 | .00010 | .0025 | .00145 | .00053 | .057 | .121 | .00022 | .00036 | .00163 |
| %RSD | .18804 | 15.966 | .14499 | 231.42 | 12.309 | .54323 | .54323 | 99.643 | .17509 | 4.2143 |
| #1 | k 1.0767 | k .00058 | k 1.7571 | k .00040 | k .00471 | k 10.392 | k 22.238 | k .00007 | .20490 | k .03748 |
| #2 | k 1.0738 | k .00073 | k 1.7535 | k -.00166 | k .00396 | k 10.472 | k 22.410 | k .00038 | .20541 | k .03978 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00095** | k **.00060** | k **.06657** | k **.00069** | k **.00468** | k **-.00336** |
| Stddev | .00054 | .00002 | .01987 | .00009 | .00048 | .00065 |
| %RSD | 56.669 | 3.7289 | 29.849 | 13.545 | 10.311 | 19.366 |
| #1 | k .00133 | k .00058 | k .05252 | k .00075 | k .00502 | k -.00290 |
| #2 | k .00057 | k .00062 | k .08062 | k .00062 | k .00434 | k -.00382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9314.0** | **117410.** | **10157.** |
| Stddev | 18.6 | 775. | 57. |
| %RSD | .19930 | .65975 | .55722 |
| #1 | 9327.1 | 117950. | 10197. |
| #2 | 9300.9 | 116860. | 10117. |

Sample Name: 280-45288-c-9-aSD@5 Acquired: 8/15/2013 2:09:04 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187002 6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.02790** | **.02601** | **.02251** | **.02851** | **.00007** | **.00312** | **4.0515** | **.00006** | **.00224** |
| Stddev | .00032 | .00002 | .00005 | .00039 | .00017 | .00001 | .00074 | .0045 | .00007 | .00008 |
| %RSD | 93.258 | .08097 | .19984 | 1.7289 | .59341 | 7.0287 | 23.653 | .11059 | 114.75 | 3.4314 |
| #1 | .00012 | .02792 | .02597 | .02279 | .02863 | .00007 | .00260 | 4.0547 | .00011 | .00229 |
| #2 | .00056 | .02789 | .02604 | .02224 | .02839 | .00008 | .00364 | 4.0483 | .00001 | .00218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **-.00049** | **11.046** | **.31664** | **-.00158** | **1.6997** | **.02571** | **-.00002** | **16.173** | **.00088** |
| Stddev | .00002 | .00015 | .005 | .04890 | .00151 | .0074 | .00003 | .00018 | .056 | .00016 |
| %RSD | 19.930 | 31.147 | .04353 | 15.443 | 95.401 | .43333 | .12142 | 838.32 | .34769 | 17.720 |
| #1 | -.00008 | -.00060 | 11.049 | .35122 | -.00265 | 1.7049 | .02569 | -.00015 | 16.133 | .00077 |
| #2 | -.00011 | -.00038 | 11.042 | .28207 | -.00051 | 1.6945 | .02573 | .00011 | 16.213 | .00099 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27918** | **-.00051** | **.44140** | **.00045** | **.00254** | **2.6836** | **5.7429** | **-.00036** | **.05393** | **.00062** |
| Stddev | .00007 | .00094 | .00788 | .00283 | .00016 | .0087 | .0186 | .00040 | .00009 | .00046 |
| %RSD | .02389 | 184.92 | 1.7843 | 632.09 | 6.2306 | .32428 | .32428 | 108.95 | .16401 | 74.147 |
| #1 | .27913 | .00016 | .43583 | .00245 | .00266 | 2.6898 | 5.7561 | -.00008 | .05387 | .00095 |
| #2 | .27923 | -.00118 | .44697 | -.00156 | .00243 | 2.6774 | 5.7297 | -.00065 | .05399 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **-.00071** | **.04017** | **.00058** | **.00387** | **-.00143** |
| Stddev | .00033 | .00029 | .04584 | .00028 | .00041 | .00133 |
| %RSD | 71.908 | 40.526 | 114.11 | 48.658 | 10.728 | 93.283 |
| #1 | .00022 | -.00050 | .07258 | .00038 | .00357 | -.00049 |
| #2 | .00069 | -.00091 | .00776 | .00078 | .00416 | -.00237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9357.7** | **117490.** | **9955.8** |
| Stddev | 12.1 | 453. | 15.7 |
| %RSD | .12904 | .38539 | .15780 |
| #1 | 9349.1 | 117810. | 9944.7 |
| #2 | 9366.2 | 117170. | 9966.9 |

Sample Name: 280-45288-c-9-b ms  Acquired: 8/15/2013 2:11:23  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.04739** | k **1.8179** | k **.98650** | k **.96350** | k **1.7945** | k **.04359** | kF **1.7936** | k **58.377** | k **.09645** | k **.44623** |
| Stddev | .00064 | .0017 | .00108 | .00008 | .0089 | .00036 | .0006 | .346 | .00014 | .00078 |
| %RSD | 1.3498 | .09526 | .10944 | .00867 | .49852 | .82927 | .03474 | .59292 | .14404 | .17574 |
| #1 | k .04785 | k 1.8167 | k .98727 | k .96356 | k 1.8008 | k .04384 | k 1.7931 | k 58.622 | k .09635 | k .44568 |
| #2 | k .04694 | k 1.8191 | k .98574 | k .96344 | k 1.7882 | k .04333 | k 1.7940 | k 58.132 | k .09654 | k .44679 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.17189** | k **.22867** | k **41.329** | **44.435** | k **.84751** | k **48.721** | k **.53574** | k **.82951** | **102.55** | k **.43248** |
| Stddev | .00018 | .00097 | .073 | .258 | .00366 | .097 | .00132 | .00033 | .59 | .00054 |
| %RSD | .10576 | .42569 | .17738 | .57965 | .43171 | .19933 | .24630 | .03944 | .57564 | .12404 |
| #1 | k .17176 | k .22936 | k 41.381 | 44.617 | k .85010 | k 48.789 | k .53668 | k .82927 | 102.97 | k .43285 |
| #2 | k .17202 | k .22798 | k 41.277 | 44.253 | k .84493 | k 48.652 | k .53481 | k .82974 | 102.13 | k .43210 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **9.8429** | k **.43731** | k **1.7035** | k **.43396** | k **1.7211** | k **18.918** | k **40.484** | k **1.6576** | **1.0958** | k **.93866** |
| Stddev | .0091 | .00016 | .0037 | .00353 | .0012 | .098 | .210 | .0002 | .0040 | .00638 |
| %RSD | .09286 | .03702 | .21434 | .81246 | .06946 | .51973 | .51973 | .01405 | .36036 | .67971 |
| #1 | k 9.8494 | k .43719 | k 1.7061 | k .43645 | k 1.7202 | k 18.987 | k 40.633 | k 1.6578 | 1.0986 | k .94317 |
| #2 | k 9.8365 | k .43742 | k 1.7009 | k .43146 | k 1.7219 | k 18.848 | k 40.335 | k 1.6575 | 1.0930 | k .93414 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.88689** | k **1.7196** | k **1.8622** | k **.44618** | k **.43053** | k **.47973** |
| Stddev | .00252 | .0029 | .0346 | .00175 | .00193 | .00154 |
| %RSD | .28434 | .16674 | 1.8572 | .39135 | .44944 | .32008 |
| #1 | k .88868 | k 1.7216 | k 1.8866 | k .44742 | k .43190 | k .48081 |
| #2 | k .88511 | k 1.7175 | k 1.8377 | k .44495 | k .42916 | k .47864 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9047.9** | **113570.** | **9997.1** |
| Stddev | 1.0 | 224. | 44.9 |
| %RSD | .01158 | .19746 | .44929 |
| #1 | 9048.7 | 113410. | 9965.3 |
| #2 | 9047.2 | 113730. | 10029. |

Sample Name: 280-45288-c-9-c msd  Acquired: 8/15/2013 2:13:27  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.05085** | k **1.9827** | k **1.0909** | k **1.0510** | k **1.9970** | k **.04840** | kF **1.9978** | k **64.546** | k **.10586** | k **.49367** |
| Stddev | .00266 | .0122 | .0044 | .0210 | .0037 | .00003 | .0117 | .207 | .00148 | .00072 |
| %RSD | 5.2334 | .61739 | .40455 | 2.0014 | .18476 | .06688 | .58488 | .32093 | 1.4017 | .14671 |
| #1 | k .05273 | k 1.9913 | k 1.0940 | k 1.0659 | k 1.9944 | k .04842 | k 1.9895 | k 64.399 | k .10691 | k .49418 |
| #2 | .04897 | 1.9740 | 1.0878 | 1.0361 | 1.9996 | .04838 | 2.0060 | 64.692 | .10482 | .49316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.19124** | k **.25384** | k **45.218** | **49.525** | k **.94108** | k **53.854** | k **.59359** | k **.92415** | **113.27** | k **.47743** |
| Stddev | .00032 | .00231 | .342 | .133 | .00307 | .122 | .00097 | .00064 | .27 | .00189 |
| %RSD | .16722 | .91186 | .75571 | .26922 | .32668 | .22570 | .16328 | .06957 | .24217 | .39652 |
| #1 | k .19146 | k .25548 | k 44.977 | 49.430 | k .93891 | k 53.940 | k .59428 | k .92369 | 113.08 | k .47877 |
| #2 | .19101 | .25220 | 45.460 | 49.619 | .94326 | 53.768 | .59291 | .92460 | 113.47 | .47609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **10.919** | k **.48176** | k **1.8718** | k **.48098** | k **1.9032** | k **20.853** | k **44.626** | k **1.8305** | **1.2175** | k **.99086** |
| Stddev | .002 | .00331 | .0052 | .00121 | .0016 | .102 | .219 | .0005 | .0045 | .06932 |
| %RSD | .01443 | .68621 | .27683 | .25186 | .08565 | .49104 | .49104 | .02817 | .37224 | 6.9963 |
| #1 | k 10.917 | k .48409 | k 1.8682 | k .48184 | k 1.9021 | k 20.781 | k 44.471 | k 1.8301 | 1.2143 | k 1.0399 |
| #2 | 10.920 | .47942 | 1.8755 | .48013 | 1.9044 | 20.926 | 44.781 | 1.8308 | 1.2207 | .94184 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.98482** | k **1.8887** | k **2.0155** | k **.49690** | k **.47550** | k **.51099** |
| Stddev | .00293 | .0015 | .0398 | .00021 | .00281 | .03257 |
| %RSD | .29726 | .07928 | 1.9747 | .04236 | .59156 | 6.3734 |
| #1 | k .98689 | k 1.8877 | k 2.0436 | k .49705 | k .47749 | k .53402 |
| #2 | .98275 | 1.8898 | 1.9873 | .49675 | .47351 | .48796 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9022.8** | **113090.** | **10013.** |
| Stddev | 3.0 | 612. | 37. |
| %RSD | .03347 | .54073 | .37094 |
| #1 | 9020.7 | 112660. | 10039. |
| #2 | 9024.9 | 113520. | 9986.6 |

Sample Name: 280-45288-c-9-aPDS  Acquired: 8/15/2013 2:15:32  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04214** | **1.1433** | **.33176** | **.19036** | **.22842** | **.05325** | **-.00486** | **38.922** | **.05653** | **.06412** |
| Stddev | .00061 | .0001 | .00223 | .00062 | .00043 | .00005 | .00070 | .018 | .00019 | .00006 |
| %RSD | 1.4543 | .00554 | .67118 | .32388 | .18624 | .09375 | 14.422 | .04588 | .32850 | .09021 |
| #1 | .04171 | 1.1434 | .33333 | .19080 | .22872 | .05329 | -.00436 | 38.935 | .05640 | .06408 |
| #2 | .04257 | 1.1433 | .33018 | .18993 | .22812 | .05322 | -.00536 | 38.910 | .05666 | .06416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05328** | **.05667** | **48.228** | **22.375** | **.10587** | **27.888** | **.16475** | **.04845** | **90.293** | **.05657** |
| Stddev | .00022 | .00027 | .092 | .023 | .00407 | .157 | .00032 | .00072 | .698 | .00004 |
| %RSD | .40541 | .47069 | .19054 | .10353 | 3.8432 | .56167 | .19333 | 1.4827 | .77355 | .07125 |
| #1 | .05343 | .05686 | 48.293 | 22.392 | .10875 | 27.999 | .16498 | .04795 | 89.799 | .05654 |
| #2 | .05313 | .05648 | 48.163 | 22.359 | .10299 | 27.777 | .16453 | .04896 | 90.787 | .05660 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.4113** | **.10664** | **2.0526** | **.10380** | **.21564** | **16.965** | **36.306** | **.09639** | **.29253** | **.21205** |
| Stddev | .0027 | .00138 | .0051 | .00014 | .00361 | .013 | .027 | .00017 | .00016 | .00137 |
| %RSD | .07771 | 1.2895 | .24691 | .13580 | 1.6744 | .07559 | .07559 | .17964 | .05366 | .64378 |
| #1 | 3.4132 | .10567 | 2.0562 | .10370 | .21819 | 16.974 | 36.325 | .09651 | .29264 | .21108 |
| #2 | 3.4094 | .10761 | 2.0490 | .10390 | .21308 | 16.956 | 36.287 | .09627 | .29242 | .21301 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05248** | **.21319** | **.58328** | **.05703** | **.21332** | **.05080** |
| Stddev | .00071 | .00086 | .00051 | .00020 | .00196 | .00057 |
| %RSD | 1.3552 | .40499 | .08713 | .35791 | .92111 | 1.1187 |
| #1 | .05299 | .21258 | .58292 | .05718 | .21471 | .05039 |
| #2 | .05198 | .21380 | .58363 | .05689 | .21193 | .05120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9200.4** | **115050.** | **10136.** |
| Stddev | 19.4 | 495. | 13. |
| %RSD | .21080 | .43009 | .12611 |
| #1 | 9214.1 | 114700. | 10127. |
| #2 | 9186.7 | 115400. | 10145. |

Sample Name: 280-45288-c-10-a  Acquired: 8/15/2013 2:17:42  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00031** | **.01826** | **.30952** | **.12665** | **.34324** | **.00019** | **-.00374** | **49.358** | **.00133** | **.01640** |
| Stddev | .00017 | .00019 | .00100 | .00057 | .00166 | .00002 | .00140 | .268 | .00011 | .00020 |
| %RSD | 53.764 | 1.0577 | .32233 | .45111 | .48335 | 8.6207 | 37.405 | .54247 | 8.2800 | 1.2303 |
| #1 | -.00019 | .01840 | .30881 | .12705 | .34207 | .00018 | -.00472 | 49.169 | .00141 | .01625 |
| #2 | -.00043 | .01812 | .31022 | .12624 | .34441 | .00021 | -.00275 | 49.547 | .00126 | .01654 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00078** | **31.273** | **7.2324** | **.01008** | **16.161** | **.20842** | **.00023** | **91.581** | **.01259** |
| Stddev | .00006 | .00055 | .146 | .0198 | .00398 | .018 | .00037 | .00009 | .506 | .00023 |
| %RSD | 95.387 | 70.674 | .46531 | .27379 | 39.500 | .10899 | .17861 | 40.658 | .55283 | 1.8201 |
| #1 | .00002 | .00039 | 31.170 | 7.2184 | .00727 | 16.148 | .20815 | .00017 | 91.223 | .01242 |
| #2 | .00010 | .00117 | 31.376 | 7.2464 | .01290 | 16.173 | .20868 | .00030 | 91.939 | .01275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3410** | **-.00028** | **.36485** | **-.00049** | **.00189** | **16.657** | **35.646** | **.00119** | **.58858** | **-.00144** |
| Stddev | .0039 | .00037 | .00088 | .00079 | .00107 | .054 | .116 | .00085 | .00308 | .00092 |
| %RSD | .16552 | 135.81 | .24254 | 160.40 | 56.605 | .32623 | .32623 | 71.698 | .52298 | 64.134 |
| #1 | 2.3437 | -.00001 | .36422 | -.00105 | .00113 | 16.619 | 35.564 | .00179 | .58640 | -.00079 |
| #2 | 2.3382 | -.00054 | .36547 | .00007 | .00265 | 16.696 | 35.729 | .00059 | .59075 | -.00210 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **-.00099** | **.03098** | **.00130** | **.01762** | **.00002** |
| Stddev | .00008 | .00078 | .06230 | .00028 | .00008 | .00047 |
| %RSD | 34.815 | 78.466 | 201.11 | 21.502 | .44618 | 1934.7 |
| #1 | .00017 | -.00154 | -.01307 | .00110 | .01768 | .00036 |
| #2 | .00029 | -.00044 | .07503 | .00150 | .01757 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9308.1** | **116530.** | **10367.** |
| Stddev | 7.2 | 239. | 19. |
| %RSD | .07767 | .20519 | .18642 |
| #1 | 9303.0 | 116700. | 10380. |
| #2 | 9313.2 | 116360. | 10353. |

Sample Name: 280-45288-c-11-a  Acquired: 8/15/2013 2:19:57  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.24202** | **.03192** | **.20330** | **.36322** | **.00081** | **-.00544** | **62.454** | **.00063** | **.01030** |
| Stddev | .00023 | .00015 | .00075 | .00063 | .00050 | .00003 | .00104 | .067 | .00003 | .00004 |
| %RSD | 193.88 | .06349 | 2.3419 | .30993 | .13848 | 4.1042 | 19.028 | .10750 | 4.1264 | .41572 |
| #1 | -.00004 | .24213 | .03245 | .20285 | .36357 | .00083 | -.00471 | 62.406 | .00061 | .01027 |
| #2 | -.00028 | .24191 | .03139 | .20374 | .36286 | .00079 | -.00618 | 62.501 | .00064 | .01033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00173** | **14.661** | **17.214** | **.01555** | **14.761** | **.20400** | **-.00018** | **155.51** | **.00797** |
| Stddev | .00006 | .00032 | .024 | .013 | .00221 | .009 | .00005 | .00007 | .62 | .00008 |
| %RSD | 9.0985 | 18.567 | .16153 | .07495 | 14.201 | .06022 | .02397 | 38.313 | .39752 | 1.0015 |
| #1 | .00066 | .00150 | 14.645 | 17.205 | .01711 | 14.767 | .20397 | -.00023 | 155.07 | .00802 |
| #2 | .00058 | .00195 | 14.678 | 17.223 | .01399 | 14.754 | .20404 | -.00013 | 155.94 | .00791 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.247** | **-.00204** | **1.9485** | **-.00047** | **.00950** | **33.607** | **71.919** | **.00179** | **.47466** | **-.00290** |
| Stddev | .007 | .00109 | .0073 | .00214 | .00161 | .036 | .076 | .00034 | .00014 | .00170 |
| %RSD | .06527 | 53.151 | .37666 | 458.25 | 16.984 | .10582 | .10582 | 19.141 | .03006 | 58.735 |
| #1 | 11.242 | -.00281 | 1.9433 | .00105 | .01064 | 33.582 | 71.865 | .00155 | .47456 | -.00170 |
| #2 | 11.252 | -.00128 | 1.9537 | -.00198 | .00835 | 33.632 | 71.973 | .00203 | .47476 | -.00411 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **-.00084** | **-.01040** | **.00202** | **.01326** | **.00164** |
| Stddev | .00006 | .00087 | .00417 | .00018 | .00019 | .00033 |
| %RSD | 14.029 | 103.37 | 40.134 | 9.1270 | 1.4382 | 19.868 |
| #1 | .00044 | -.00023 | -.00745 | .00189 | .01339 | .00141 |
| #2 | .00036 | -.00145 | -.01335 | .00215 | .01312 | .00187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9157.1** | **115390.** | **10375.** |
| Stddev | 7.8 | 313. | 37. |
| %RSD | .08559 | .27092 | .36035 |
| #1 | 9162.6 | 115620. | 10401. |
| #2 | 9151.5 | 115170. | 10348. |

Sample Name: 280-45288-c-13-a  Acquired: 8/15/2013 2:22:10  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00022** | **.02301** | **.34252** | **.12178** | **.36038** | **.00018** | **-.00307** | **49.925** | **.00150** | **.01776** |
| Stddev | .00028 | .00021 | .00012 | .00045 | .00127 | .00002 | .00037 | .054 | .00012 | .00007 |
| %RSD | 129.29 | .91023 | .03386 | .37327 | .35348 | 8.8104 | 11.980 | .10739 | 7.7397 | .39362 |
| #1 | -.00002 | .02286 | .34244 | .12210 | .35948 | .00019 | -.00281 | 49.887 | .00142 | .01771 |
| #2 | -.00041 | .02316 | .34260 | .12146 | .36128 | .00017 | -.00333 | 49.963 | .00158 | .01781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.00056** | **32.828** | **7.0374** | **.01178** | **16.707** | **.21244** | **.00013** | **91.719** | **.01118** |
| Stddev | .0000 | .00035 | .035 | .0092 | .00071 | .003 | .00010 | .00002 | .241 | .00009 |
| %RSD | 3452.8 | 62.432 | .10792 | .13081 | 6.0269 | .01500 | .04529 | 12.354 | .26262 | .84527 |
| #1 | .00001 | .00031 | 32.803 | 7.0439 | .01128 | 16.709 | .21237 | .00014 | 91.548 | .01111 |
| #2 | -.00001 | .00081 | 32.853 | 7.0309 | .01228 | 16.706 | .21251 | .00012 | 91.889 | .01125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3050** | **-.00123** | **.34063** | **-.00035** | **.00181** | **16.761** | **35.868** | **.00016** | **.60786** | **-.00234** |
| Stddev | .0095 | .00007 | .00265 | .00014 | .00005 | .015 | .031 | .00088 | .00148 | .00294 |
| %RSD | .41111 | 5.3932 | .77743 | 39.751 | 2.8963 | .08764 | .08764 | 539.99 | .24407 | 125.51 |
| #1 | 2.2983 | -.00127 | .34250 | -.00045 | .00177 | 16.750 | 35.846 | .00079 | .60681 | -.00442 |
| #2 | 2.3117 | -.00118 | .33876 | -.00025 | .00185 | 16.771 | 35.890 | -.00046 | .60891 | -.00026 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **-.00051** | **.01600** | **.00136** | **.01620** | **.00056** |
| Stddev | .00016 | .00008 | .01032 | .00000 | .00034 | .00054 |
| %RSD | 75.635 | 16.423 | 64.505 | .25204 | 2.0767 | 98.052 |
| #1 | .00033 | -.00045 | .00870 | .00136 | .01596 | .00094 |
| #2 | .00010 | -.00057 | .02330 | .00136 | .01643 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9285.6** | **117330.** | **10389.** |
| Stddev | 42.3 | 258. | 5. |
| %RSD | .45512 | .21970 | .05193 |
| #1 | 9315.5 | 117150. | 10393. |
| #2 | 9255.7 | 117510. | 10385. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 2:24:26 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **50.125** | **.00380** | **.00373** | **.00099** | **-.00005** | **1.0015** | **.00506** | **-.00015** | **.00036** | **-.00021** | **.00076** | **48.651** |
| Stddev | .00025 | .139 | .00145 | .00010 | .00005 | .00003 | .0035 | .00229 | .00000 | .00005 | .00006 | .00006 | .400 |
| %RSD | 101.91 | .27749 | 38.205 | 2.7243 | 4.7762 | 65.260 | .35275 | 45.167 | 1.2824 | 14.684 | 30.123 | 7.2878 | .82277 |
| #1 | .00042 | 50.026 | .00483 | .00380 | .00096 | -.00007 | 1.0040 | .00668 | -.00015 | .00040 | -.00025 | .00080 | 48.368 |
| #2 | .00007 | 50.223 | .00278 | .00366 | .00103 | -.00003 | .99898 | .00345 | -.00015 | .00032 | -.00016 | .00072 | 48.934 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25887** | **.00060** | **-.00825** | **.00046** | **.00011** | **247.93** | **.00082** | **.01059** | **.00080** | **5.1374** | **.00241** | **-.00057** | **.01362** |
| Stddev | .02552 | .00153 | .00076 | .00001 | .00028 | 1.31 | .00013 | .00052 | .00068 | .0351 | .00142 | .00219 | .00376 |
| %RSD | 9.8568 | 257.13 | 9.2181 | 1.0939 | 255.33 | .52991 | 16.034 | 4.9378 | 85.838 | .68382 | 58.941 | 387.80 | 27.628 |
| #1 | .27691 | .00168 | -.00771 | .00046 | -.00009 | 247.00 | .00091 | .01096 | .00128 | 5.1622 | .00141 | .00099 | .01628 |
| #2 | .24083 | -.00049 | -.00878 | .00046 | .00030 | 248.86 | .00072 | .01022 | .00031 | 5.1125 | .00341 | -.00212 | .01096 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02914** | **.00060** | **.00051** | **4.9806** | **.00027** | **.00093** | **10.047** | **.00091** | **.00067** | **.01642** |
| Stddev | .00805 | .00023 | .00005 | .0038 | .00059 | .00067 | .027 | .00001 | .00002 | .00027 |
| %RSD | 27.628 | 39.242 | 10.438 | .07710 | 218.46 | 72.517 | .27366 | .66879 | 2.9388 | 1.6714 |
| #1 | .03483 | .00076 | .00047 | 4.9834 | -.00015 | .00045 | 10.066 | .00091 | .00068 | .01622 |
| #2 | .02345 | .00043 | .00055 | 4.9779 | .00069 | .00140 | 10.028 | .00090 | .00065 | .01661 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9100.9** | **113340.** | **9952.3** |
| Stddev | 8.3 | 189. | 69.3 |
| %RSD | .09131 | .16675 | .69663 |
| #1 | 9106.8 | 113200. | 10001. |
| #2 | 9095.1 | 113470. | 9903.3 |

Sample Name: CCV-2194461 Acquired: 8/15/2013 2:26:47 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50131** | **.52926** | **.97802** | **.50029** | **.47371** | **.49204** | **-.00106** | **4.9338** | **.50618** | **.51258** | **.49263** | **.51303** | **2.4797** |
| Stddev | .00108 | .00076 | .00193 | .00159 | .00101 | .00209 | .00045 | .0153 | .00009 | .00045 | .00015 | .00055 | .0143 |
| %RSD | .21620 | .14290 | .19684 | .31704 | .21283 | .42423 | 42.544 | .30943 | .01874 | .08690 | .02945 | .10655 | .57811 |
| #1 | .50207 | .52980 | .97938 | .50141 | .47300 | .49057 | -.00074 | 4.9230 | .50611 | .51290 | .49253 | .51342 | 2.4696 |
| #2 | .50054 | .52873 | .97666 | .49917 | .47443 | .49352 | -.00138 | 4.9446 | .50624 | .51227 | .49274 | .51264 | 2.4898 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.162** | **.96330** | **19.265** | **.50829** | **.48589** | **5.2321** | **.49906** | **.97621** | **1.0127** | **.00000** | **1.0420** | **1.0009** | **4.8270** |
| Stddev | .127 | .00610 | .034 | .00107 | .00069 | .0022 | .00047 | .00269 | .0017 | .0006 | .0015 | .0061 | .0130 |
| %RSD | .25924 | .63346 | .17445 | .20956 | .14146 | .04203 | .09420 | .27590 | .16960 | 27616. | .14882 | .60694 | .26973 |
| #1 | 49.072 | .95898 | 19.288 | .50904 | .48540 | 5.2337 | .49872 | .97431 | 1.0140 | -.00045 | 1.0431 | 1.0052 | 4.8178 |
| #2 | 49.252 | .96761 | 19.241 | .50754 | .48637 | 5.2306 | .49939 | .97812 | 1.0115 | .00044 | 1.0409 | .99665 | 4.8362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.330** | **.97989** | **.50385** | **-.00305** | **.51477** | **1.0440** | **.00486** | **.50070** | **.48634** | **.50237** |
| Stddev | .028 | .00325 | .00251 | .00140 | .00064 | .0046 | .05189 | .00024 | .00069 | .00442 |
| %RSD | .26973 | .33146 | .49786 | 45.951 | .12485 | .43590 | 1068.5 | .04802 | .14129 | .87910 |
| #1 | 10.310 | .98218 | .50207 | -.00206 | .51522 | 1.0472 | .04155 | .50053 | .48586 | .49925 |
| #2 | 10.349 | .97759 | .50562 | -.00404 | .51432 | 1.0407 | -.03184 | .50087 | .48683 | .50549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9294.1** | **116790.** | **10023.** |
| Stddev | 2.4 | 51. | 7. |
| %RSD | .02591 | .04396 | .06881 |
| #1 | 9295.8 | 116750. | 10018. |
| #2 | 9292.4 | 116820. | 10028. |

Sample Name: CCB  Acquired: 8/15/2013 2:28:55  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00647** | **.00302** | **.00240** | **-.00021** | **.00001** | **-.00034** | **.00372** | **.00004** | **.00015** | **-.00008** | **-.00077** |
| Stddev | .00035 | .00010 | .00227 | .00011 | .00004 | .00004 | .00053 | .00119 | .00018 | .00006 | .00003 | .00036 |
| %RSD | 713.04 | 1.5934 | 75.299 | 4.6212 | 17.809 | 272.56 | 153.12 | 31.977 | 443.52 | 38.579 | 43.398 | 46.113 |
| #1 | -.00029 | .00640 | .00141 | .00232 | -.00018 | -.00001 | -.00072 | .00457 | -.00009 | .00011 | -.00005 | -.00103 |
| #2 | .00020 | .00655 | .00463 | .00248 | -.00023 | .00004 | .00003 | .00288 | .00017 | .00020 | -.00010 | -.00052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01270** | **.12725** | **-.00114** | **.00468** | W **.00045** | **.00044** | W **.12294** | **.00004** | **.00498** | **-.00005** | **.00307** | **.00228** |
| Stddev | .00115 | .01090 | .00202 | .00268 | .00009 | .00005 | .02229 | .00002 | .00004 | .00118 | .00197 | .00188 |
| %RSD | 9.0829 | 8.5678 | 176.92 | 57.190 | 19.751 | 10.332 | 18.131 | 54.769 | .82693 | 2383.8 | 64.334 | 82.160 |
| #1 | .01188 | .13496 | -.00257 | .00658 | .00052 | .00047 | .10717 | .00002 | .00501 | .00078 | .00446 | .00096 |
| #2 | .01352 | .11954 | .00029 | .00279 | .00039 | .00041 | .13870 | .00005 | .00495 | -.00088 | .00167 | .00361 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00025 | | .09160 | | | | | |
| Low Limit | | | | | -.00025 | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00111** | **-.00177** | **-.00380** | **.00010** | **.00003** | **.00120** | **.00052** | **-.00067** | **.02763** | **.00080** | **.00115** | **-.00045** |
| Stddev | .00185 | .00578 | .01236 | .00026 | .00002 | .00099 | .00042 | .00057 | .06133 | .00000 | .00001 | .00049 |
| %RSD | 166.90 | 325.58 | 325.58 | 260.75 | 80.573 | 82.883 | 80.225 | 84.684 | 221.97 | .07647 | .82940 | 108.16 |
| #1 | -.00020 | -.00586 | -.01254 | .00028 | .00004 | .00049 | .00082 | -.00107 | .07100 | .00080 | .00114 | -.00079 |
| #2 | .00242 | .00231 | .00494 | -.00008 | .00001 | .00190 | .00023 | -.00027 | -.01574 | .00080 | .00115 | -.00011 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9370.4** | **119750.** | **10010.** |
| Stddev | 4.1 | 816. | 63. |
| %RSD | .04387 | .68158 | .62690 |
| #1 | 9367.5 | 119170. | 10055. |
| #2 | 9373.3 | 120330. | 9966.0 |

Sample Name: CCVL-2197715 Acquired: 8/15/2013 2:31:12 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01056** | **.12278** | **.01548** | **.09626** | **.00974** | **.00096** | **.10861** | **.21593** | **.00528** | **.01099** | **.01032** | **.01499** | **.12206** |
| Stddev | .00049 | .00032 | .00041 | .00042 | .00006 | .00005 | .00186 | .00013 | .00018 | .00003 | .00002 | .00058 | .00036 |
| %RSD | 4.6674 | .26375 | 2.6214 | .44099 | .60085 | 5.1788 | 1.7122 | .06170 | 3.4015 | .24667 | .17201 | 3.8433 | .29155 |
| #1 | .01091 | .12301 | .01577 | .09656 | .00969 | .00093 | .10730 | .21583 | .00516 | .01097 | .01033 | .01458 | .12181 |
| #2 | .01021 | .12255 | .01519 | .09596 | .00978 | .00100 | .10993 | .21602 | .00541 | .01101 | .01031 | .01539 | .12231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1469** | **.01000** | **.20605** | **.01092** | **.01945** | **1.1907** | **.04178** | **2.7997** | **.01048** | **.00290** | **.01011** | **.01662** | **.47603** |
| Stddev | .0054 | .00201 | .00401 | .00003 | .00014 | .0088 | .00000 | .0049 | .00074 | .00041 | .00093 | .00072 | .00107 |
| %RSD | .17156 | 20.077 | 1.9443 | .28209 | .71125 | .73464 | .00631 | .17409 | 7.0732 | 14.069 | 9.2033 | 4.3348 | .22478 |
| #1 | 3.1507 | .01142 | .20889 | .01094 | .01955 | 1.1969 | .04179 | 2.8032 | .00995 | .00261 | .01077 | .01713 | .47679 |
| #2 | 3.1431 | .00858 | .20322 | .01090 | .01935 | 1.1845 | .04178 | 2.7963 | .01100 | .00319 | .00945 | .01611 | .47528 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0187** | **.10022** | **.01045** | **.01402** | **.01033** | **.01452** | **.07487** | **.01072** | F **.03102** | **.01651** |
| Stddev | .0023 | .00040 | .00013 | .00202 | .00022 | .00070 | .02114 | .00051 | .00063 | .00095 |
| %RSD | .22478 | .39634 | 1.2381 | 14.432 | 2.1003 | 4.8480 | 28.232 | 4.7723 | 2.0449 | 5.7622 |
| #1 | 1.0203 | .09994 | .01036 | .01545 | .01018 | .01402 | .05993 | .01036 | .03057 | .01719 |
| #2 | 1.0171 | .10050 | .01054 | .01259 | .01049 | .01502 | .08982 | .01108 | .03147 | .01584 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value | | | | | | | | | .02000 | |
| Range | | | | | | | | | 30.000% | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9374.5** | **119710.** | **10062.** |
| Stddev | 2.9 | 42. | 3. |
| %RSD | .03063 | .03472 | .03016 |
| #1 | 9372.4 | 119680. | 10059. |
| #2 | 9376.5 | 119740. | 10064. |

Sample Name: mb 280-187009/1-a  Acquired: 8/15/2013 2:33:30  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009 SOIL 6010B BO

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.01096** | **.00168** | **.00264** | **.00005** | **.00004** | **-.00058** | **.07339** | **.00013** | **.00019** |
| Stddev | .00023 | .00013 | .00200 | .00010 | .00004 | .00009 | .00175 | .00034 | .00014 | .00011 |
| %RSD | 130.15 | 1.2314 | 119.15 | 3.7996 | 70.707 | 241.47 | 303.76 | .45763 | 105.42 | 60.738 |
| #1 | .00033 | .01086 | .00309 | .00271 | .00003 | -.00003 | -.00181 | .07363 | .00003 | .00027 |
| #2 | .00001 | .01105 | .00026 | .00257 | .00008 | .00010 | .00066 | .07316 | .00023 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **-.00052** | **.03808** | **.18475** | **.00131** | **.01005** | **.00083** | **-.00002** | **.13344** | **.00022** |
| Stddev | .00001 | .00027 | .00121 | .00552 | .00163 | .00013 | .00005 | .00000 | .00904 | .00033 |
| %RSD | 18.309 | 51.255 | 3.1853 | 2.9866 | 124.99 | 1.2735 | 6.0570 | 11.224 | 6.7736 | 146.52 |
| #1 | .00006 | -.00033 | .03722 | .18085 | .00246 | .01014 | .00087 | -.00002 | .13984 | -.00001 |
| #2 | .00004 | -.00071 | .03894 | .18865 | .00015 | .00996 | .00080 | -.00002 | .12705 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00678** | **-.00012** | **.01413** | **-.00067** | **.00387** | **.00132** | **.00282** | **.00029** | **.00021** | **.00103** |
| Stddev | .00196 | .00062 | .00170 | .00107 | .00237 | .00327 | .00700 | .00070 | .00000 | .00156 |
| %RSD | 28.874 | 530.63 | 12.025 | 161.13 | 61.152 | 248.50 | 248.50 | 239.08 | 2.2235 | 151.14 |
| #1 | .00816 | -.00056 | .01292 | .00009 | .00220 | .00363 | .00777 | -.00020 | .00021 | .00213 |
| #2 | .00539 | .00032 | .01533 | -.00142 | .00554 | -.00100 | -.00213 | .00079 | .00021 | -.00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00086** | **-.00142** | **.02334** | **.00031** | **.00236** | **-.00188** |
| Stddev | .00011 | .00013 | .00192 | .00013 | .00002 | .00100 |
| %RSD | 12.801 | 9.4601 | 8.2078 | 43.317 | .64246 | 53.296 |
| #1 | .00094 | -.00152 | .02198 | .00022 | .00237 | -.00259 |
| #2 | .00078 | -.00133 | .02469 | .00041 | .00235 | -.00117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9633.5** | **123090.** | **10300.** |
| Stddev | 40.9 | 292. | 71. |
| %RSD | .42431 | .23719 | .68920 |
| #1 | 9662.4 | 122880. | 10350. |
| #2 | 9604.6 | 123300. | 10250. |

Sample Name: lcs 280-187009/2-a  Acquired: 8/15/2013 2:35:45  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009  SOIL 6010B BO

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05141** | **2.0769** | **1.0507** | **.98612** | **1.9961** | **.05132** | **2.1545** | **51.010** | F **.11094** | **.52392** |
| Stddev | .00044 | .0022 | .0021 | .00124 | .0002 | .00008 | .0023 | .087 | .00006 | .00023 |
| %RSD | .84904 | .10436 | .19710 | .12616 | .00833 | .15847 | .10833 | .17135 | .05331 | .04405 |
| #1 | .05172 | 2.0784 | 1.0492 | .98700 | 1.9962 | .05126 | 2.1561 | 50.948 | .11089 | .52375 |
| #2 | .05110 | 2.0753 | 1.0521 | .98524 | 1.9960 | .05138 | 2.1528 | 51.071 | .11098 | .52408 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | .11000 | |
| Low Limit | | | | | | | | | .08700 | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20629** | **.26971** | **1.0525** | **51.677** | **.99990** | **49.836** | **.52591** | **.98403** | **51.827** | **.51051** |
| Stddev | .00033 | .00032 | .0039 | .136 | .00043 | .097 | .00065 | .00029 | .005 | .00002 |
| %RSD | .16171 | .11770 | .36848 | .26280 | .04285 | .19507 | .12343 | .02953 | .00937 | .00421 |
| #1 | .20605 | .26993 | 1.0553 | 51.581 | .99960 | 49.904 | .52637 | .98383 | 51.823 | .51053 |
| #2 | .20653 | .26948 | 1.0498 | 51.773 | 1.0002 | 49.767 | .52545 | .98424 | 51.830 | .51050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.366** | **.51906** | **.07044** | **.50140** | **2.0422** | F **.85182** | **1.8229** | **1.9509** | **1.0586** | **1.0063** |
| Stddev | .001 | .00060 | .00142 | .00243 | .0037 | .00917 | .0196 | .0028 | .0015 | .0012 |
| %RSD | .01165 | .11620 | 2.0135 | .48458 | .17914 | 1.0764 | 1.0764 | .14258 | .14415 | .11884 |
| #1 | 10.367 | .51949 | .06944 | .50312 | 2.0396 | .84534 | 1.8090 | 1.9489 | 1.0575 | 1.0071 |
| #2 | 10.366 | .51864 | .07144 | .49968 | 2.0448 | .85831 | 1.8368 | 1.9528 | 1.0597 | 1.0054 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 7.0000 | | | | |
| Low Limit | | | | | | 1.0000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0439** | **2.0738** | **2.1986** | **.52957** | **.50038** | **.51898** |
| Stddev | .0003 | .0033 | .0327 | .00146 | .00110 | .00068 |
| %RSD | .02759 | .15730 | 1.4881 | .27606 | .21954 | .13115 |
| #1 | 1.0441 | 2.0715 | 2.2217 | .52853 | .50116 | .51850 |
| #2 | 1.0437 | 2.0761 | 2.1755 | .53060 | .49960 | .51947 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9042.9** | **114160.** | **10112.** |
| Stddev | 10.9 | 51. | 84. |
| %RSD | .12040 | .04456 | .83016 |
| #1 | 9035.2 | 114130. | 10171. |
| #2 | 9050.6 | 114200. | 10052. |

Sample Name: 280-45342-a-2-e  Acquired: 8/15/2013 2:37:53  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009  SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00130** | **131.42** | **.15001** | **.01590** | **.75597** | **.00601** | **.01676** | **14.924** | **.00225** | **.05761** |
| Stddev | .00038 | .30 | .00369 | .00010 | .00008 | .00005 | .00396 | .034 | .00006 | .00048 |
| %RSD | 28.899 | .23132 | 2.4584 | .64102 | .01101 | .81171 | 23.653 | .22905 | 2.7168 | .82856 |
| #1 | -.00103 | 131.64 | .14740 | .01582 | .75602 | .00598 | .01956 | 14.948 | .00221 | .05727 |
| #2 | -.00157 | 131.21 | .15262 | .01597 | .75591 | .00605 | .01395 | 14.900 | .00230 | .05795 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18871** | **.09089** | **162.71** | **30.823** | **.18885** | **38.869** | **2.8145** | **.00434** | **2.1005** | **.12781** |
| Stddev | .00135 | .00010 | .25 | .040 | .00297 | .100 | .0267 | .00024 | .0138 | .00118 |
| %RSD | .71748 | .11376 | .15225 | .12938 | 1.5719 | .25667 | .95007 | 5.4865 | .65807 | .92422 |
| #1 | .18775 | .09081 | 162.89 | 30.851 | .18675 | 38.940 | 2.8335 | .00417 | 2.1102 | .12698 |
| #2 | .18966 | .09096 | 162.53 | 30.794 | .19095 | 38.798 | 2.7956 | .00450 | 2.0907 | .12865 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3391** | **.04870** | **.44266** | **.00063** | **.00529** | **2.4966** | **5.3427** | **.01225** | **.15358** | **.06833** |
| Stddev | .0105 | .00075 | .00133 | .00067 | .00082 | .0120 | .0256 | .00034 | .00012 | .00041 |
| %RSD | .44706 | 1.5446 | .30106 | 106.42 | 15.558 | .47998 | .47998 | 2.7603 | .07749 | .60019 |
| #1 | 2.3318 | .04817 | .44172 | .00110 | .00471 | 2.4881 | 5.3246 | .01201 | .15366 | .06804 |
| #2 | 2.3465 | .04923 | .44360 | .00016 | .00587 | 2.5051 | 5.3609 | .01248 | .15349 | .06862 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.4395** | **.00003** | F **-.23901** | **.30988** | **.43067** | **.01753** |
| Stddev | .0034 | .00085 | .01000 | .00042 | .00111 | .00037 |
| %RSD | .04046 | 2935.5 | 4.1857 | .13681 | .25773 | 2.0996 |
| #1 | 8.4371 | .00063 | -.23194 | .31018 | .43145 | .01727 |
| #2 | 8.4420 | -.00057 | -.24608 | .30958 | .42988 | .01779 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9942.3** | **122810.** | **10992.** |
| Stddev | 14.3 | 318. | 69. |
| %RSD | .14427 | .25929 | .63079 |
| #1 | 9952.4 | 122590. | 10943. |
| #2 | 9932.1 | 123040. | 11041. |

Sample Name: 280-45342-a-2-eSD@5 Acquired: 8/15/2013 2:40:11 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187009 SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **28.988** | **.03191** | **.00576** | **.16648** | **.00127** | **.00535** | **3.3713** | **.00025** | **.01355** |
| Stddev | .00047 | .094 | .00033 | .00020 | .00085 | .00001 | .00025 | .0105 | .00000 | .00008 |
| %RSD | 138.41 | .32291 | 1.0276 | 3.4974 | .51223 | .46593 | 4.6698 | .31111 | .43124 | .56369 |
| #1 | -.00001 | 28.921 | .03168 | .00561 | .16588 | .00128 | .00552 | 3.3638 | .00025 | .01350 |
| #2 | -.00067 | 29.054 | .03214 | .00590 | .16709 | .00127 | .00517 | 3.3787 | .00026 | .01360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04186** | **.01925** | **37.697** | **6.9464** | **.04270** | **8.5429** | **.62624** | **.00087** | **.56909** | **.02906** |
| Stddev | .00020 | .00059 | .079 | .0340 | .00236 | .0156 | .00054 | .00000 | .00727 | .00009 |
| %RSD | .48225 | 3.0585 | .20976 | .48999 | 5.5314 | .18290 | .08676 | .32762 | 1.2776 | .29305 |
| #1 | .04201 | .01884 | 37.641 | 6.9223 | .04103 | 8.5318 | .62586 | .00087 | .57423 | .02912 |
| #2 | .04172 | .01967 | 37.753 | 6.9705 | .04437 | 8.5539 | .62662 | .00087 | .56395 | .02900 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51296** | **.01129** | **.09866** | **.00117** | **.00299** | **.55907** | **1.1964** | **.00256** | **.03439** | **.01420** |
| Stddev | .00222 | .00188 | .00251 | .00301 | .00056 | .00646 | .0138 | .00057 | .00007 | .00019 |
| %RSD | .43364 | 16.613 | 2.5451 | 256.62 | 18.765 | 1.1553 | 1.1553 | 22.422 | .19698 | 1.3573 |
| #1 | .51454 | .01262 | .10044 | -.00096 | .00259 | .55450 | 1.1866 | .00297 | .03434 | .01434 |
| #2 | .51139 | .00996 | .09689 | .00330 | .00338 | .56364 | 1.2062 | .00215 | .03444 | .01407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8198** | **-.00168** | **-.03761** | **.06811** | **.09793** | **.00412** |
| Stddev | .0002 | .00096 | .03203 | .00037 | .00014 | .00091 |
| %RSD | .00916 | 57.383 | 85.181 | .54144 | .14693 | 22.073 |
| #1 | 1.8197 | -.00236 | -.06026 | .06838 | .09804 | .00476 |
| #2 | 1.8200 | -.00100 | -.01496 | .06785 | .09783 | .00348 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9556.1** | **120340.** | **10298.** |
| Stddev | 5.1 | 254. | 88. |
| %RSD | .05343 | .21140 | .85801 |
| #1 | 9559.7 | 120520. | 10360. |
| #2 | 9552.5 | 120160. | 10235. |

Sample Name: 280-45342-a-2-f ms  Acquired: 8/15/2013 2:42:27  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009 SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04413** | **191.10** | **1.0748** | **.82953** | **2.6626** | **.05246** | F **1.8749** | **62.711** | **.09921** | **.51184** |
| Stddev | .00025 | 1.12 | .0024 | .00116 | .0126 | .00024 | .0026 | .375 | .00015 | .00015 |
| %RSD | .57117 | .58597 | .22761 | .14044 | .47147 | .46094 | .14041 | .59751 | .15149 | .02946 |
| #1 | .04395 | 190.31 | 1.0765 | .83035 | 2.6537 | .05229 | 1.8768 | 62.446 | .09932 | .51194 |
| #2 | .04431 | 191.89 | 1.0731 | .82870 | 2.6715 | .05263 | 1.8731 | 62.976 | .09911 | .51173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40423** | **.35235** | **191.48** | **82.283** | **1.1366** | **89.133** | **3.8011** | **.81365** | **48.794** | **.59102** |
| Stddev | .00037 | .00034 | 1.31 | .489 | .0018 | .529 | .0168 | .00102 | .213 | .00024 |
| %RSD | .09181 | .09767 | .68191 | .59483 | .16152 | .59307 | .44276 | .12475 | .43563 | .04028 |
| #1 | .40449 | .35210 | 190.55 | 81.936 | 1.1353 | 88.759 | 3.8130 | .81437 | 48.643 | .59119 |
| #2 | .40397 | .35259 | 192.40 | 82.629 | 1.1379 | 89.507 | 3.7892 | .81293 | 48.944 | .59085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.486** | **.49253** | **.49756** | **.16841** | **1.7705** | **5.6710** | **12.136** | **1.5936** | **1.1275** | **.96972** |
| Stddev | .011 | .00092 | .00670 | .00270 | .0091 | .0208 | .045 | .0027 | .0082 | .00447 |
| %RSD | .09178 | .18611 | 1.3473 | 1.6007 | .51549 | .36718 | .36718 | .16883 | .72968 | .46110 |
| #1 | 11.494 | .49318 | .50230 | .16650 | 1.7770 | 5.6563 | 12.104 | 1.5955 | 1.1217 | .97288 |
| #2 | 11.479 | .49188 | .49282 | .17032 | 1.7641 | 5.6857 | 12.167 | 1.5917 | 1.1334 | .96656 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.977** | **1.7173** | **1.6490** | **.84410** | **.93649** | **.47399** |
| Stddev | .078 | .0066 | .0088 | .00111 | .00352 | .00672 |
| %RSD | .71007 | .38156 | .53589 | .13138 | .37607 | 1.4179 |
| #1 | 10.922 | 1.7219 | 1.6427 | .84332 | .93400 | .46924 |
| #2 | 11.032 | 1.7127 | 1.6552 | .84489 | .93898 | .47874 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | |
| Low Limit | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9682.0** | **118620.** | **10811.** |
| Stddev | 1.8 | 675. | 3. |
| %RSD | .01881 | .56943 | .03218 |
| #1 | 9683.3 | 119100. | 10814. |
| #2 | 9680.7 | 118140. | 10809. |

Sample Name: 280-45342-a-2-g msd  Acquired: 8/15/2013 2:44:52  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009  SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04379** | **187.68** | **1.0934** | **.84111** | **2.6978** | **.05288** | F **1.8974** | **62.456** | **.10030** | **.51731** |
| Stddev | .00041 | 1.72 | .0027 | .00351 | .0185 | .00036 | .0030 | .464 | .00013 | .00272 |
| %RSD | .94087 | .91652 | .24469 | .41761 | .68400 | .67775 | .15978 | .74218 | .13355 | .52562 |
| #1 | .04408 | 186.46 | 1.0915 | .83863 | 2.6847 | .05262 | 1.8952 | 62.128 | .10021 | .51539 |
| #2 | .04350 | 188.89 | 1.0953 | .84359 | 2.7108 | .05313 | 1.8995 | 62.783 | .10040 | .51924 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41170** | **.35008** | **201.11** | **82.303** | **1.1411** | **90.188** | **3.7942** | **.82509** | **49.523** | **.59764** |
| Stddev | .00143 | .00091 | .89 | .773 | .0079 | .013 | .0166 | .00361 | .198 | .00285 |
| %RSD | .34848 | .25928 | .44296 | .93914 | .69019 | .01490 | .43855 | .43764 | .40001 | .47709 |
| #1 | .41068 | .34944 | 200.48 | 81.757 | 1.1356 | 90.178 | 3.7825 | .82254 | 49.382 | .59562 |
| #2 | .41271 | .35072 | 201.74 | 82.850 | 1.1467 | 90.197 | 3.8060 | .82764 | 49.663 | .59966 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.571** | **.50044** | **.47776** | **.16806** | **1.7806** | **5.9096** | **12.647** | **1.6045** | **1.1331** | **.98537** |
| Stddev | .042 | .00048 | .00289 | .00049 | .0088 | .0146 | .031 | .0005 | .0088 | .00170 |
| %RSD | .35960 | .09656 | .60550 | .28946 | .49377 | .24696 | .24696 | .03227 | .77942 | .17285 |
| #1 | 11.542 | .50078 | .47981 | .16772 | 1.7868 | 5.9199 | 12.669 | 1.6048 | 1.1269 | .98658 |
| #2 | 11.600 | .50010 | .47572 | .16841 | 1.7744 | 5.8993 | 12.624 | 1.6041 | 1.1394 | .98417 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.875** | **1.7248** | **1.6015** | **.85339** | **.94281** | **.47690** |
| Stddev | .099 | .0042 | .0007 | .00019 | .00203 | .00625 |
| %RSD | .91213 | .24575 | .04229 | .02181 | .21510 | 1.3103 |
| #1 | 10.946 | 1.7278 | 1.6020 | .85353 | .94137 | .47248 |
| #2 | 10.805 | 1.7218 | 1.6010 | .85326 | .94424 | .48132 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | |
| Low Limit | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9700.9** | **119250.** | **10865.** |
| Stddev | 25.1 | 32. | 114. |
| %RSD | .25853 | .02716 | 1.0452 |
| #1 | 9718.6 | 119230. | 10946. |
| #2 | 9683.2 | 119270. | 10785. |

Sample Name: 280-45342-a-6-d  Acquired: 8/15/2013 2:47:21  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009  SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00184** | **143.35** | **.13740** | **.01495** | **.85416** | **.00662** | **.02061** | **15.049** | **.00213** | **.06300** |
| Stddev | .00008 | .05 | .00008 | .00003 | .00094 | .00001 | .00012 | .010 | .00001 | .00029 |
| %RSD | 4.2094 | .03366 | .05525 | .20911 | .10980 | .08577 | .59113 | .06724 | .66076 | .45910 |
| #1 | -.00189 | 143.31 | .13735 | .01493 | .85482 | .00661 | .02053 | 15.042 | .00212 | .06280 |
| #2 | -.00178 | 143.38 | .13746 | .01498 | .85349 | .00662 | .02070 | 15.056 | .00214 | .06321 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19948** | **.09180** | **177.34** | **33.591** | **.19132** | **41.244** | **3.3419** | **.00537** | **1.0284** | **.13413** |
| Stddev | .00023 | .00045 | .35 | .014 | .00269 | .195 | .0035 | .00057 | .0086 | .00005 |
| %RSD | .11444 | .48692 | .19905 | .04063 | 1.4035 | .47360 | .10537 | 10.656 | .83227 | .03625 |
| #1 | .19931 | .09211 | 177.09 | 33.601 | .18942 | 41.382 | 3.3394 | .00496 | 1.0345 | .13409 |
| #2 | .19964 | .09148 | 177.59 | 33.582 | .19322 | 41.106 | 3.3443 | .00577 | 1.0224 | .13416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3757** | **.05397** | **.93452** | **-.00060** | **.00055** | **2.9729** | **6.3620** | **.01282** | **.16343** | **.06266** |
| Stddev | .0059 | .00032 | .00373 | .00195 | .00200 | .0238 | .0510 | .00096 | .00039 | .00294 |
| %RSD | .24864 | .59095 | .39903 | 323.73 | 365.51 | .80157 | .80157 | 7.5282 | .23737 | 4.6952 |
| #1 | 2.3716 | .05420 | .93188 | -.00198 | -.00087 | 2.9897 | 6.3980 | .01213 | .16371 | .06474 |
| #2 | 2.3799 | .05375 | .93715 | .00078 | .00196 | 2.9560 | 6.3259 | .01350 | .16316 | .06058 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.8899** | **-.00009** | F **-.26399** | **.33207** | **.46518** | **.01805** |
| Stddev | .0052 | .00040 | .05765 | .00054 | .00196 | .00152 |
| %RSD | .05864 | 460.67 | 21.838 | .16373 | .42215 | 8.4326 |
| #1 | 8.8936 | .00020 | -.30475 | .33246 | .46657 | .01697 |
| #2 | 8.8862 | -.00037 | -.22322 | .33169 | .46379 | .01912 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10007.** | **123090.** | **11056.** |
| Stddev | 1. | 455. | 41. |
| %RSD | .00682 | .36982 | .36890 |
| #1 | 10007. | 122770. | 11085. |
| #2 | 10006. | 123420. | 11027. |

Sample Name: 280-45342-a-10-i Acquired: 8/15/2013 2:49:38 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187009 SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00121** | **108.85** | **.04862** | **.02024** | **.80665** | **.00427** | **.01457** | **68.438** | **.00386** | **.04630** |
| Stddev | .00002 | .17 | .00051 | .00035 | .00187 | .00002 | .00013 | .112 | .00011 | .00028 |
| %RSD | 1.5731 | .15968 | 1.0539 | 1.7288 | .23158 | .37854 | .91415 | .16432 | 2.9393 | .61424 |
| #1 | -.00123 | 108.73 | .04899 | .02000 | .80533 | .00426 | .01466 | 68.358 | .00394 | .04650 |
| #2 | -.00120 | 108.98 | .04826 | .02049 | .80797 | .00429 | .01447 | 68.517 | .00378 | .04610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13982** | **.09228** | **146.34** | **16.237** | **.12334** | **31.964** | **2.2119** | **.15586** | **.94233** | **.10354** |
| Stddev | .00003 | .00037 | .36 | .058 | .00035 | .069 | .0018 | .00002 | .01342 | .00028 |
| %RSD | .01979 | .39922 | .24291 | .35572 | .28222 | .21683 | .08253 | .01079 | 1.4241 | .26885 |
| #1 | .13980 | .09202 | 146.09 | 16.196 | .12358 | 32.013 | 2.2107 | .15584 | .95182 | .10373 |
| #2 | .13984 | .09254 | 146.60 | 16.278 | .12309 | 31.915 | 2.2132 | .15587 | .93285 | .10334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.6230** | **.04947** | **1.1480** | **-.00200** | **.00548** | **2.6076** | **5.5803** | **.00914** | **.33182** | **.06469** |
| Stddev | .0063 | .00017 | .0027 | .00166 | .00097 | .0229 | .0491 | .00061 | .00174 | .00174 |
| %RSD | .17476 | .34310 | .23627 | 82.891 | 17.749 | .87939 | .87939 | 6.6378 | .52447 | 2.6928 |
| #1 | 3.6275 | .04959 | 1.1461 | -.00317 | .00616 | 2.5914 | 5.5456 | .00957 | .33059 | .06346 |
| #2 | 3.6186 | .04935 | 1.1499 | -.00083 | .00479 | 2.6238 | 5.6150 | .00871 | .33305 | .06592 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.3482** | **-.00196** | F **-.19081** | **.30506** | **.36044** | **.01700** |
| Stddev | .0042 | .00020 | .02096 | .00128 | .00148 | .00001 |
| %RSD | .07812 | 10.284 | 10.985 | .41998 | .40939 | .08418 |
| #1 | 5.3453 | -.00211 | -.17599 | .30597 | .36148 | .01701 |
| #2 | 5.3512 | -.00182 | -.20563 | .30416 | .35940 | .01699 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9809.2** | **120560.** | **10908.** |
| Stddev | 10.5 | 171. | 44. |
| %RSD | .10671 | .14212 | .40102 |
| #1 | 9816.6 | 120440. | 10877. |
| #2 | 9801.8 | 120680. | 10939. |

Sample Name: 280-45342-a-2-f ms  Acquired: 8/15/2013 2:51:49  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009  SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04415** | **190.98** | **1.0819** | **.82920** | **2.6582** | **.05230** | F **1.8796** | **62.556** | **.09874** | **.51155** |
| Stddev | .00027 | .81 | .0011 | .00083 | .0134 | .00031 | .0026 | .281 | .00023 | .00067 |
| %RSD | .61841 | .42161 | .09966 | .09999 | .50282 | .60171 | .13772 | .44842 | .23690 | .13128 |
| #1 | .04434 | 190.41 | 1.0812 | .82979 | 2.6488 | .05208 | 1.8778 | 62.358 | .09858 | .51107 |
| #2 | .04395 | 191.55 | 1.0827 | .82862 | 2.6677 | .05253 | 1.8814 | 62.754 | .09891 | .51202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40274** | **.35122** | **190.78** | **82.010** | **1.1332** | **89.340** | **3.8539** | **.81148** | **48.813** | **.59021** |
| Stddev | .00045 | .00013 | 1.06 | .376 | .0019 | .602 | .0191 | .00029 | .239 | .00003 |
| %RSD | .11071 | .03673 | .55669 | .45812 | .16664 | .67376 | .49636 | .03526 | .49014 | .00441 |
| #1 | .40243 | .35131 | 190.03 | 81.744 | 1.1319 | 88.915 | 3.8675 | .81128 | 48.643 | .59019 |
| #2 | .40306 | .35113 | 191.53 | 82.275 | 1.1346 | 89.766 | 3.8404 | .81168 | 48.982 | .59022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.452** | **.49170** | **.49756** | **.16790** | **1.7606** | **5.6933** | **12.184** | **1.5915** | **1.1265** | **.97098** |
| Stddev | .003 | .00096 | .00502 | .00141 | .0016 | .0177 | .038 | .0015 | .0049 | .00227 |
| %RSD | .02729 | .19483 | 1.0088 | .84060 | .09137 | .31051 | .31051 | .09305 | .43892 | .23389 |
| #1 | 11.454 | .49102 | .50111 | .16691 | 1.7617 | 5.6808 | 12.157 | 1.5905 | 1.1230 | .97258 |
| #2 | 11.449 | .49238 | .49401 | .16890 | 1.7595 | 5.7058 | 12.210 | 1.5926 | 1.1300 | .96937 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.022** | **1.7126** | **1.6649** | **.84364** | **.93700** | **.46989** |
| Stddev | .017 | .0015 | .0112 | .00203 | .00498 | .00235 |
| %RSD | .15652 | .09052 | .67418 | .24060 | .53148 | .49979 |
| #1 | 11.010 | 1.7137 | 1.6728 | .84508 | .94052 | .46823 |
| #2 | 11.034 | 1.7115 | 1.6569 | .84221 | .93348 | .47155 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | |
| Low Limit | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9681.8** | **118400.** | **10836.** |
| Stddev | 19.0 | 121. | 35. |
| %RSD | .19638 | .10250 | .31950 |
| #1 | 9695.2 | 118480. | 10860. |
| #2 | 9668.3 | 118310. | 10811. |

Sample Name: 280-45342-a-2-g msd  Acquired: 8/15/2013 2:54:17  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187009  SOIL 6010B BO

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04489** | **187.50** | **1.0939** | **.84239** | **2.6884** | **.05276** | F **1.9020** | **62.374** | **.10006** | **.51783** |
| Stddev | .00038 | .75 | .0036 | .00077 | .0025 | .00005 | .0028 | .182 | .00033 | .00028 |
| %RSD | .84299 | .39864 | .33266 | .09173 | .09287 | .08794 | .14948 | .29149 | .32518 | .05416 |
| #1 | .04516 | 188.03 | 1.0965 | .84184 | 2.6866 | .05272 | 1.9040 | 62.502 | .10029 | .51803 |
| #2 | .04463 | 186.97 | 1.0913 | .84294 | 2.6902 | .05279 | 1.8999 | 62.245 | .09983 | .51763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41325** | **.35068** | **200.60** | **82.323** | **1.1445** | **89.895** | **3.8247** | **.82765** | **49.368** | **.59709** |
| Stddev | .00008 | .00047 | .26 | .182 | .0034 | .373 | .0067 | .00089 | .504 | .00006 |
| %RSD | .01968 | .13462 | .13201 | .22086 | .29880 | .41496 | .17543 | .10708 | 1.0215 | .01013 |
| #1 | .41319 | .35101 | 200.41 | 82.452 | 1.1420 | 90.158 | 3.8199 | .82702 | 49.011 | .59714 |
| #2 | .41330 | .35035 | 200.78 | 82.195 | 1.1469 | 89.631 | 3.8294 | .82828 | 49.724 | .59705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.581** | **.50013** | **.47852** | **.17123** | **1.7875** | **6.0630** | **12.975** | **1.6075** | **1.1345** | **.98897** |
| Stddev | .013 | .00030 | .00395 | .00011 | .0103 | .0296 | .063 | .0112 | .0004 | .00442 |
| %RSD | .11642 | .06089 | .82515 | .06634 | .57432 | .48849 | .48849 | .69688 | .03239 | .44691 |
| #1 | 11.572 | .50035 | .48131 | .17131 | 1.7948 | 6.0420 | 12.930 | 1.6155 | 1.1342 | .99209 |
| #2 | 11.591 | .49992 | .47573 | .17115 | 1.7803 | 6.0839 | 13.020 | 1.5996 | 1.1348 | .98584 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.865** | **1.7287** | **1.6394** | **.85500** | **.95115** | **.47873** |
| Stddev | .017 | .0165 | .0291 | .00070 | .00199 | .00079 |
| %RSD | .15807 | .95280 | 1.7735 | .08136 | .20888 | .16538 |
| #1 | 10.852 | 1.7403 | 1.6599 | .85549 | .95255 | .47817 |
| #2 | 10.877 | 1.7170 | 1.6188 | .85451 | .94974 | .47929 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | |
| Low Limit | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9707.8** | **119070.** | **10906.** |
| Stddev | 2.3 | 134. | 102. |
| %RSD | .02405 | .11243 | .93412 |
| #1 | 9706.2 | 118970. | 10834. |
| #2 | 9709.5 | 119160. | 10978. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 2:56:45 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **50.213** | **.00403** | **.00550** | **.00047** | **-.00007** | **1.0032** | **-.00440** | **-.00009** | **.00022** | **-.00012** | **.00156** | **48.866** |
| Stddev | .00003 | .111 | .00063 | .00017 | .00002 | .00003 | .0032 | .00536 | .00008 | .00038 | .00004 | .00043 | .338 |
| %RSD | 55.089 | .22115 | 15.717 | 3.0616 | 3.9119 | 42.543 | .31809 | 121.77 | 92.098 | 169.45 | 36.083 | 27.392 | .69202 |
| #1 | .00009 | 50.292 | .00448 | .00562 | .00046 | -.00005 | 1.0054 | -.00061 | -.00015 | .00049 | -.00015 | .00186 | 49.105 |
| #2 | .00004 | 50.135 | .00359 | .00538 | .00048 | -.00010 | 1.0009 | -.00820 | -.00003 | -.00004 | -.00009 | .00125 | 48.627 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.45453** | **.00094** | **-.00606** | **.00014** | **.00093** | **248.94** | **.00043** | **.00484** | **.00010** | **5.1327** | **.00311** | **-.00041** | **-.00671** |
| Stddev | .05514 | .00318 | .00239 | .00009 | .00042 | 1.19 | .00001 | .00157 | .00084 | .0067 | .00229 | .00111 | .00656 |
| %RSD | 12.132 | 339.38 | 39.453 | 65.717 | 45.499 | .47671 | 1.3056 | 32.510 | 810.92 | .13080 | 73.582 | 269.23 | 97.877 |
| #1 | .49352 | .00319 | -.00437 | .00008 | .00063 | 249.78 | .00044 | .00373 | -.00049 | 5.1374 | .00473 | .00037 | -.01135 |
| #2 | .41554 | -.00131 | -.00775 | .00021 | .00123 | 248.10 | .00043 | .00596 | .00070 | 5.1279 | .00149 | -.00120 | -.00207 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01435** | **.00056** | **.00049** | **4.9849** | **.00100** | **.00170** | **10.073** | **.00127** | **.00078** | **.02031** |
| Stddev | .01405 | .00034 | .00008 | .0072 | .00006 | .00002 | .025 | .00010 | .00020 | .00106 |
| %RSD | 97.877 | 60.943 | 16.487 | .14533 | 5.7131 | 1.1846 | .25193 | 7.6163 | 25.914 | 5.2362 |
| #1 | -.02429 | .00080 | .00055 | 4.9900 | .00104 | .00172 | 10.091 | .00133 | .00064 | .01956 |
| #2 | -.00442 | .00032 | .00043 | 4.9798 | .00096 | .00169 | 10.055 | .00120 | .00092 | .02106 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9080.6** | **113050.** | **9886.8** |
| Stddev | 10.5 | 480. | 54.9 |
| %RSD | .11584 | .42491 | .55550 |
| #1 | 9073.1 | 113390. | 9847.9 |
| #2 | 9088.0 | 112710. | 9925.6 |

Sample Name: CCV-2194461 Acquired: 8/15/2013 2:59:05 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50124** | **.53261** | **.98189** | **.50343** | **.48123** | **.49721** | **-.00015** | **4.9719** | **.50669** | **.51382** | **.49458** | **.51323** | **2.4948** |
| Stddev | .00037 | .00192 | .00474 | .00193 | .00019 | .00200 | .00013 | .0129 | .00080 | .00062 | .00111 | .00023 | .0084 |
| %RSD | .07454 | .36062 | .48298 | .38426 | .03882 | .40147 | 89.318 | .26009 | .15704 | .12036 | .22535 | .04571 | .33799 |
| #1 | .50098 | .53397 | .98524 | .50480 | .48136 | .49580 | -.00005 | 4.9627 | .50726 | .51426 | .49536 | .51306 | 2.4889 |
| #2 | .50151 | .53125 | .97854 | .50206 | .48110 | .49862 | -.00024 | 4.9810 | .50613 | .51339 | .49379 | .51339 | 2.5008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.517** | **.96844** | **19.310** | **.50836** | **.48990** | **5.2252** | **.50071** | **.97610** | **1.0165** | **-.00084** | **1.0391** | **.99958** | **4.9163** |
| Stddev | .148 | .00016 | .021 | .00048 | .00246 | .0180 | .00112 | .00062 | .0030 | .00085 | .0045 | .00169 | .0133 |
| %RSD | .29857 | .01647 | .10781 | .09447 | .50121 | .34505 | .22353 | .06311 | .29796 | 102.10 | .42854 | .16936 | .26968 |
| #1 | 49.412 | .96832 | 19.295 | .50870 | .48817 | 5.2124 | .50150 | .97567 | 1.0143 | -.00023 | 1.0422 | 1.0008 | 4.9256 |
| #2 | 49.622 | .96855 | 19.325 | .50802 | .49164 | 5.2379 | .49992 | .97654 | 1.0186 | -.00144 | 1.0359 | .99838 | 4.9069 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.521** | **.98482** | **.50703** | **-.00294** | **.51440** | **1.0457** | **.05142** | **.50351** | **.48762** | **.51198** |
| Stddev | .028 | .00162 | .00246 | .00090 | .00066 | .0001 | .02427 | .00110 | .00005 | .00129 |
| %RSD | .26968 | .16459 | .48576 | 30.465 | .12777 | .01189 | 47.199 | .21785 | .01070 | .25145 |
| #1 | 10.541 | .98596 | .50529 | -.00358 | .51394 | 1.0457 | .03426 | .50428 | .48758 | .51107 |
| #2 | 10.501 | .98367 | .50877 | -.00231 | .51487 | 1.0456 | .06858 | .50273 | .48766 | .51289 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9266.9** | **117440.** | **10050.** |
| Stddev | .5 | 90. | 39. |
| %RSD | .00560 | .07635 | .38369 |
| #1 | 9266.5 | 117500. | 10023. |
| #2 | 9267.3 | 117380. | 10077. |

Sample Name: CCB  Acquired: 8/15/2013 3:01:13  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00152** | **.00269** | **.00330** | **-.00031** | **-.00002** | **-.00092** | **-.00238** | **-.00006** | **-.00008** | **.00001** | **-.00125** |
| Stddev | .00016 | .00020 | .00026 | .00001 | .00045 | .00009 | .00185 | .00151 | .00014 | .00004 | .00001 | .00017 |
| %RSD | 59.063 | 12.854 | 9.8208 | .18677 | 143.58 | 547.54 | 202.72 | 63.230 | 244.73 | 55.594 | 104.27 | 13.945 |
| #1 | .00016 | .00166 | .00288 | .00330 | .00000 | .00005 | -.00223 | -.00132 | .00004 | -.00005 | .00002 | -.00113 |
| #2 | .00040 | .00138 | .00250 | .00330 | -.00063 | -.00008 | .00040 | -.00345 | -.00015 | -.00011 | .00000 | -.00138 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00517** | W **.23969** | **.00076** | **.00028** | **.00016** | **.00062** | **.09115** | **.00000** | **.00220** | **-.00103** | **.00262** | **.00209** |
| Stddev | .00054 | .03059 | .00228 | .00172 | .00007 | .00001 | .01161 | .00004 | .00165 | .00087 | .00153 | .00207 |
| %RSD | 10.454 | 12.763 | 297.89 | 626.20 | 45.033 | 1.5672 | 12.736 | 991.81 | 74.963 | 84.434 | 58.184 | 98.818 |
| #1 | .00478 | .26132 | .00237 | -.00094 | .00011 | .00062 | .09936 | -.00003 | .00104 | -.00165 | .00370 | .00063 |
| #2 | .00555 | .21805 | -.00085 | .00149 | .00021 | .00061 | .08294 | .00004 | .00337 | -.00042 | .00154 | .00355 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .23700 | | | | | | | | | | |
| Low Limit | | -.23700 | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00303** | **-.00203** | **-.00434** | **-.00030** | **.00002** | **.00011** | W **.00062** | **-.00029** | **.03515** | **.00060** | **.00135** | **-.00069** |
| Stddev | .00257 | .01344 | .02876 | .00010 | .00008 | .00033 | .00019 | .00051 | .01612 | .00031 | .00010 | .00028 |
| %RSD | 84.941 | 662.87 | 662.87 | 34.027 | 364.77 | 288.36 | 31.277 | 175.60 | 45.874 | 50.925 | 7.3048 | 39.786 |
| #1 | .00121 | .00748 | .01600 | -.00023 | .00008 | -.00012 | .00048 | -.00065 | .04655 | .00082 | .00142 | -.00050 |
| #2 | .00485 | -.01153 | -.02468 | -.00038 | -.00003 | .00035 | .00076 | .00007 | .02375 | .00039 | .00128 | -.00089 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .00060 | | | | | |
| Low Limit | | | | | | | -.00060 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9323.9** | **119530.** | **9925.9** |
| Stddev | 6.0 | 59. | 88.6 |
| %RSD | .06420 | .04938 | .89307 |
| #1 | 9328.1 | 119570. | 9988.6 |
| #2 | 9319.7 | 119480. | 9863.2 |

Sample Name: CCVL2197715 Acquired: 8/15/2013 3:03:30 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01024** | **.10876** | **.01780** | **.09552** | **.00962** | **.00100** | **.11105** | **.20070** | **.00508** | **.01073** | **.01012** | **.01493** | **.10394** | **3.1748** |
| Stddev | .00029 | .00009 | .00130 | .00054 | .00013 | .00004 | .00313 | .00342 | .00014 | .00012 | .00006 | .00022 | .00053 | .0209 |
| %RSD | 2.8043 | .08213 | 7.2995 | .56110 | 1.3269 | 3.6508 | 2.8205 | 1.7061 | 2.6842 | 1.0824 | .56479 | 1.5064 | .50941 | .65831 |
| #1 | .01044 | .10870 | .01688 | .09515 | .00953 | .00102 | .10884 | .19828 | .00499 | .01065 | .01016 | .01509 | .10431 | 3.1896 |
| #2 | .01003 | .10883 | .01872 | .09590 | .00971 | .00097 | .11327 | .20312 | .00518 | .01081 | .01008 | .01477 | .10356 | 3.1600 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01156** | **.19782** | **.01041** | **.01944** | **1.1278** | **.04100** | **2.7610** | **.00871** | **.00260** | **.01067** | **.01814** | **.48013** | **1.0275** | **.09864** |
| Stddev | .00260 | .00004 | .00007 | .00003 | .0001 | .00011 | .0070 | .00014 | .00177 | .00158 | .00164 | .00534 | .0114 | .00009 |
| %RSD | 22.515 | .02274 | .66502 | .13642 | .00973 | .25784 | .25388 | 1.6295 | 68.152 | 14.850 | 9.0594 | 1.1115 | 1.1115 | .09430 |
| #1 | .01340 | .19778 | .01046 | .01946 | 1.1277 | .04107 | 2.7660 | .00881 | .00135 | .01179 | .01930 | .47635 | 1.0194 | .09857 |
| #2 | .00972 | .19785 | .01036 | .01943 | 1.1279 | .04092 | 2.7561 | .00861 | .00385 | .00955 | .01697 | .48390 | 1.0355 | .09870 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01040** | **.01460** | **.01017** | **.01534** | **.05497** | **.01105** | **.02046** | **.01507** |
| Stddev | .00011 | .00085 | .00011 | .00088 | .01934 | .00023 | .00021 | .00088 |
| %RSD | 1.0795 | 5.8237 | 1.0827 | 5.7308 | 35.186 | 2.0832 | 1.0103 | 5.8287 |
| #1 | .01032 | .01520 | .01025 | .01471 | .06864 | .01121 | .02032 | .01569 |
| #2 | .01048 | .01400 | .01009 | .01596 | .04129 | .01089 | .02061 | .01445 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9339.1** | **119880.** | **10039.** |
| Stddev | 1.5 | 547. | . |
| %RSD | .01590 | .45599 | .00280 |
| #1 | 9338.1 | 119490. | 10039. |
| #2 | 9340.2 | 120270. | 10039. |

Sample Name: lb3 280-186751/1-b Acquired: 8/15/2013 3:05:47 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP AFCEE 4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00712** | **.00017** | **.03377** | **.00076** | **-.00007** | **.00098** | **.01946** | **-.00001** | **.00002** |
| Stddev | .00005 | .00019 | .00391 | .00073 | .00009 | .00002 | .00023 | .00202 | .00002 | .00012 |
| %RSD | 9.6651 | 2.7190 | 2287.8 | 2.1529 | 12.112 | 27.259 | 23.753 | 10.360 | 197.21 | 583.70 |
| #1 | .00050 | .00726 | .00294 | .03428 | .00083 | -.00005 | .00082 | .01803 | .00000 | -.00007 |
| #2 | .00044 | .00699 | -.00259 | .03325 | .00070 | -.00008 | .00114 | .02088 | -.00002 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **-.00071** | **.01069** | **.18081** | **.00103** | **.00995** | **.00017** | **-.00006** | W **.64767** | **.00045** |
| Stddev | .00003 | .00013 | .00317 | .01544 | .00422 | .00376 | .00001 | .00029 | .00521 | .00011 |
| %RSD | 5.2922 | 18.834 | 29.657 | 8.5382 | 408.01 | 37.800 | 3.5517 | 446.39 | .80413 | 25.071 |
| #1 | .00051 | -.00080 | .00845 | .19172 | .00402 | .01261 | .00017 | -.00027 | .64398 | .00054 |
| #2 | .00055 | -.00062 | .01293 | .16989 | -.00195 | .00729 | .00018 | .00014 | .65135 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | .50000 | |
| Low Limit | | | | | | | | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00297** | **.00045** | **.00652** | **-.00041** | **.00496** | **.06092** | **.13037** | **.00019** | **.00012** | **.00053** |
| Stddev | .00087 | .00007 | .00202 | .00116 | .00003 | .00442 | .00945 | .00059 | .00008 | .00091 |
| %RSD | 29.302 | 16.172 | 30.926 | 284.81 | .53806 | 7.2484 | 7.2484 | 303.52 | 66.088 | 170.33 |
| #1 | .00235 | .00050 | .00794 | .00041 | .00494 | .05780 | .12369 | .00061 | .00017 | .00118 |
| #2 | .00358 | .00040 | .00509 | -.00122 | .00498 | .06404 | .13706 | -.00022 | .00006 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **-.00082** | **.02217** | **.00052** | **.00286** | **-.00192** |
| Stddev | .00026 | .00057 | .02086 | .00032 | .00024 | .00005 |
| %RSD | 124.54 | 69.422 | 94.057 | 61.371 | 8.4173 | 2.5978 |
| #1 | -.00002 | -.00122 | .03692 | .00075 | .00269 | -.00188 |
| #2 | -.00039 | -.00042 | .00743 | .00029 | .00303 | -.00195 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9484.8** | **121870.** | **10116.** |
| Stddev | 12.9 | 321. | 79. |
| %RSD | .13584 | .26331 | .78319 |
| #1 | 9493.9 | 122100. | 10060. |
| #2 | 9475.7 | 121650. | 10172. |

Sample Name: lcs 280-186751/2-b Acquired: 8/15/2013 3:08:03 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP AFCEE 4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20452** | W **.41435** | **.76251** | **.21791** | **2.2394** | **.00943** | **.41383** | **9.5564** | **.21796** | **.09889** |
| Stddev | .00024 | .00077 | .00926 | .00177 | .0024 | .00008 | .00164 | .0254 | .00025 | .00054 |
| %RSD | .11797 | .18601 | 1.2149 | .81312 | .10652 | .84365 | .39676 | .26590 | .11399 | .54877 |
| #1 | .20469 | .41489 | .76906 | .21917 | 2.2377 | .00937 | .41499 | 9.5385 | .21813 | .09927 |
| #2 | .20435 | .41380 | .75596 | .21666 | 2.2411 | .00949 | .41267 | 9.5744 | .21778 | .09850 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .43200 | | | | | | | | |
| Low Limit | | 1.7200 | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99891** | **.44900** | **.19968** | **9.7191** | **.18902** | **9.2674** | **.09766** | **.18484** | **10.400** | **10.425** |
| Stddev | .00098 | .00054 | .00048 | .0322 | .00072 | .0094 | .00029 | .00112 | .025 | .197 |
| %RSD | .09774 | .11997 | .24277 | .33168 | .38201 | .10145 | .29336 | .60482 | .24397 | 1.8894 |
| #1 | .99960 | .44938 | .19934 | 9.6963 | .18953 | 9.2740 | .09786 | .18563 | 10.382 | 10.564 |
| #2 | .99822 | .44862 | .20002 | 9.7419 | .18851 | 9.2607 | .09746 | .18405 | 10.418 | 10.286 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09745** | **1.8980** | **1.1025** | **.00524** | **.09418** | **.56875** | **1.8804** | F **4.0240** | **.37180** | **.19489** |
| Stddev | .00061 | .0118 | .0053 | .00041 | .00001 | .00297 | .0175 | .0374 | .00079 | .00091 |
| %RSD | .62793 | .61912 | .48058 | 7.8235 | .01150 | .52185 | .93009 | .93009 | .21225 | .46779 |
| #1 | .09788 | 1.9063 | 1.1063 | .00495 | .09418 | .56665 | 1.8680 | 3.9975 | .37236 | .19425 |
| #2 | .09702 | 1.8897 | 1.0988 | .00553 | .09419 | .57085 | 1.8927 | 4.0504 | .37124 | .19554 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 4.9220 | | |
| Low Limit | | | | | | | | 4.0200 | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17874** | **.19179** | **.40871** | **.43424** | **.09761** | **.46636** | **.09443** |
| Stddev | .00021 | .00032 | .00213 | .01891 | .00017 | .00043 | .00197 |
| %RSD | .11530 | .16920 | .52157 | 4.3555 | .17509 | .09305 | 2.0867 |
| #1 | .17859 | .19156 | .41022 | .42087 | .09773 | .46606 | .09304 |
| #2 | .17888 | .19202 | .40720 | .44761 | .09749 | .46667 | .09583 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9347.8** | **118770.** | **9999.8** |
| Stddev | 22.5 | 277. | 28.8 |
| %RSD | .24118 | .23324 | .28770 |
| #1 | 9331.8 | 118580. | 10020. |
| #2 | 9363.7 | 118970. | 9979.4 |

Sample Name: 280-45178-a-1-b  Acquired: 8/15/2013 3:10:12  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186939 TCLP AFCEE 4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00300** | kF **1.3717** | kF **-10.675** | k **.32634** | k **.01208** | k **.00010** | kF **1.6680** | **7.1993** | k **.06464** | k **.04188** |
| Stddev | .00056 | .0022 | .068 | .00393 | .00011 | .00002 | .0169 | .0250 | .00011 | .00012 |
| %RSD | 18.726 | .15949 | .63673 | 1.2049 | .88396 | 19.882 | 1.0157 | .34739 | .17756 | .29255 |
| #1 | k .00340 | k 1.3702 | k -10.627 | k .32356 | k .01200 | k .00011 | k 1.6560 | 7.1816 | k .06456 | k .04179 |
| #2 | k .00260 | k 1.3733 | k -10.723 | k .32912 | k .01215 | k .00009 | k 1.6800 | 7.2169 | k .06472 | k .04196 |
| Check ? | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 1000.0 | 50.000 | | | | .10000 | | | |
| Low Limit | | 2.0000 | -.02000 | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **530.05** | k **.03547** | k **74.047** | W **161.79** | k **.00264** | k **.48779** | k **.01019** | k **.04859** | **5.1864** | k **.00063** |
| Stddev | .15 | .00010 | .241 | .37 | .00093 | .00036 | .00016 | .00135 | .0220 | .00033 |
| %RSD | .02863 | .28865 | .32539 | .22584 | 35.207 | .07322 | 1.5840 | 2.7817 | .42503 | 51.914 |
| #1 | k 530.16 | k .03554 | k 74.217 | 161.53 | k .00329 | k .48753 | k .01008 | k .04763 | 5.1708 | k .00087 |
| #2 | k 529.95 | k .03539 | k 73.876 | 162.05 | k .00198 | k .48804 | k .01031 | k .04954 | 5.2020 | k .00040 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | 100.00 | | | | | | |
| Low Limit | -.02000 | | | -.50000 | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.03791** | kF **-.01104** | k **2.0995** | kW **14.028** | k **-.00303** | k **2.5616** | k **5.4819** | k **.30356** | **.02128** | k **.05508** |
| Stddev | .00060 | .00197 | .0148 | .048 | .00236 | .0107 | .0230 | .00426 | .00008 | .00169 |
| %RSD | 1.5747 | 17.825 | .70531 | .33940 | 77.836 | .41887 | .41887 | 1.4034 | .39121 | 3.0735 |
| #1 | k .03833 | k -.00965 | k 2.0891 | k 13.994 | k -.00469 | k 2.5540 | k 5.4656 | k .30054 | .02134 | k .05389 |
| #2 | k .03749 | k -.01243 | k 2.1100 | k 14.062 | k -.00136 | k 2.5692 | k 5.4981 | k .30657 | .02122 | k .05628 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 200.00 | | 2.0000 | | | | | | |
| Low Limit | | -.00600 | | -.01000 | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.10653** | k **.13748** | kF **-.28279** | ^ ***** | k **.09308** | k **.00468** |
| Stddev | .00033 | .00165 | .00463 | ----- | .00052 | .00089 |
| %RSD | .31033 | 1.1997 | 1.6378 | ----- | .56351 | 19.125 |
| #1 | k .10676 | k .13864 | k -.28606 | ^ ----- | k .09271 | k .00531 |
| #2 | k .10629 | k .13631 | k -.27951 | ^ ----- | k .09345 | k .00404 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **4396.7** | **112630.** | **10047.** |
| Stddev | 10.8 | 172. | 46. |
| %RSD | .24555 | .15233 | .45829 |
| #1 | 4404.3 | 112750. | 10080. |
| #2 | 4389.0 | 112510. | 10015. |

Sample Name: 280-45178-a-1-bSD@5 Acquired: 8/15/2013 3:12:29 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP AFCEE 4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00102** | **.38989** | kF **-1.4059** | **.04630** | k **.00267** | k **.00002** | kF **.21660** | **1.7043** | k **.00828** | k **.00577** |
| Stddev | .00022 | .00122 | .0061 | .00037 | .00025 | .00000 | .00040 | .0024 | .00003 | .00020 |
| %RSD | 21.388 | .31166 | .43310 | .79181 | 9.3737 | .86467 | .18629 | .14050 | .35642 | 3.4668 |
| #1 | k .00118 | .38903 | k -1.4102 | .04604 | .00249 | k .00002 | k .21632 | 1.7026 | k .00826 | k .00563 |
| #2 | k .00087 | .39075 | k -1.4016 | .04656 | k .00285 | k .00002 | k .21689 | 1.7060 | k .00830 | k .00591 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | | .10000 | | | |
| Low Limit | | | -.02000 | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **96.111** | k **.00779** | **17.622** | **37.648** | **.00529** | k **.12158** | k **.00218** | k **.00631** | **1.2390** | k **-.00052** |
| Stddev | .559 | .00020 | .114 | .270 | .00023 | .00282 | .00009 | .00022 | .0183 | .00000 |
| %RSD | .58202 | 2.6195 | .64851 | .71621 | 4.3651 | 2.3228 | 3.9515 | 3.5007 | 1.4788 | .03164 |
| #1 | k 96.506 | k .00765 | 17.541 | 37.457 | .00513 | k .12357 | k .00212 | k .00646 | 1.2261 | k -.00052 |
| #2 | k 95.715 | k .00794 | 17.702 | 37.839 | .00546 | k .11958 | k .00224 | k .00615 | 1.2520 | k -.00052 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -.02000 | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00744** | k **-.00176** | k **.27059** | k **1.7755** | k **.00026** | k **.56847** | k **1.2165** | k **.03993** | **.00495** | k **-.00143** |
| Stddev | .00025 | .00070 | .00208 | .0017 | .00032 | .01103 | .0236 | .00021 | .00011 | .00121 |
| %RSD | 3.4040 | 39.501 | .76871 | .09450 | 122.41 | 1.9407 | 1.9407 | .53785 | 2.2088 | 84.522 |
| #1 | k .00762 | k -.00226 | k .26912 | k 1.7743 | k .00004 | k .56067 | k 1.1998 | k .03977 | .00488 | k -.00229 |
| #2 | k .00726 | k -.00127 | k .27206 | k 1.7767 | k .00049 | k .57627 | k 1.2332 | k .04008 | .00503 | k -.00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.02223** | k **.01733** | kW **-.06560** | ^ ***** | k **.02204** | k **.00036** |
| Stddev | .00031 | .00010 | .02922 | ----- | .00015 | .00066 |
| %RSD | 1.3796 | .59825 | 44.549 | ----- | .67092 | 180.48 |
| #1 | k .02245 | k .01726 | k -.04494 | ^ ----- | k .02194 | k .00083 |
| #2 | k .02202 | k .01740 | k -.08627 | ^ ----- | k .02215 | k -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8138.3** | **116740.** | **9995.3** |
| Stddev | 2.1 | 77. | 81.8 |
| %RSD | .02599 | .06575 | .81814 |
| #1 | 8136.8 | 116690. | 10053. |
| #2 | 8139.8 | 116800. | 9937.4 |

Sample Name: 280-45178-a-1-c ms  Acquired: 8/15/2013 3:14:50  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186939 TCLP AFCEE 4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW .19496 | kF 1.7589 | kF -9.2108 | k .66909 | 2.0488 | k .00856 | kF 2.3837 | 15.744 | k .47201 | k .21141 |
| Stddev | .00093 | .0240 | .0256 | .00139 | .0014 | .00006 | .0000 | .005 | .00318 | .00111 |
| %RSD | .47872 | 1.3638 | .27741 | .20839 | .06783 | .74684 | .00023 | .02897 | .67280 | .52645 |
| #1 | k .19430 | k 1.7419 | k -9.1928 | k .66810 | 2.0498 | k .00860 | k 2.3837 | 15.747 | k .46976 | k .21063 |
| #2 | k .19562 | k 1.7759 | k -9.2289 | k .67008 | 2.0478 | k .00851 | k 2.3837 | 15.740 | k .47426 | k .21220 |
| Check ? | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | 1000.0 | 50.000 | | | | .10000 | | | |
| Low Limit | -.01000 | 2.0000 | -.02000 | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF 524.53 | k .33397 | k 73.064 | W 170.26 | k .17042 | k 8.5966 | k .09783 | k .38895 | 14.135 | k .16958 |
| Stddev | 1.07 | .00107 | .327 | .16 | .00115 | .0092 | .00048 | .00268 | .196 | .00057 |
| %RSD | .20374 | .32039 | .44726 | .09180 | .67715 | .10763 | .49426 | .69008 | 1.3897 | .33528 |
| #1 | k 523.78 | k .33321 | k 73.295 | 170.37 | k .17123 | k 8.5900 | k .09749 | k .38705 | 13.996 | k .16998 |
| #2 | k 525.29 | k .33472 | k 72.833 | 170.15 | k .16960 | k 8.6031 | k .09818 | k .39085 | 14.274 | k .16918 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | 100.00 | | | | | | |
| Low Limit | -.02000 | | | -.50000 | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW 3.5571 | k 1.9469 | k 2.0941 | kW 14.171 | k 1.0518 | k 4.2584 | k 9.1130 | k .97714 | .19776 | k .22983 |
| Stddev | .0178 | .0097 | .0117 | .087 | .0076 | .0040 | .0084 | .00448 | .00037 | .00028 |
| %RSD | .50020 | .49712 | .55993 | .61088 | .72697 | .09267 | .09267 | .45895 | .18893 | .11976 |
| #1 | k 3.5446 | k 1.9400 | k 2.0858 | k 14.110 | k 1.0464 | k 4.2612 | k 9.1189 | k .97397 | .19750 | k .23002 |
| #2 | k 3.5697 | k 1.9537 | k 2.1024 | k 14.232 | k 1.0572 | k 4.2556 | k 9.1070 | k .98031 | .19803 | k .22963 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | 2.0000 | | | | | | |
| Low Limit | -1.0000 | | | -.01000 | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .28424 | k .82735 | k .07164 | ^ ***** | k .51848 | k .09806 |
| Stddev | .00013 | .00134 | .01959 | ----- | .00073 | .00012 |
| %RSD | .04512 | .16179 | 27.346 | ----- | .14136 | .11825 |
| #1 | k .28415 | k .82830 | k .05778 | ^ ----- | k .51796 | k .09815 |
| #2 | k .28433 | k .82640 | k .08549 | ^ ----- | k .51900 | k .09798 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 4378.2 | 112020. | 9948.9 |
| Stddev | 33.5 | 77. | 13.1 |
| %RSD | .76491 | .06870 | .13124 |
| #1 | 4401.9 | 111970. | 9958.1 |
| #2 | 4354.6 | 112070. | 9939.7 |

Sample Name: 280-45178-a-1-d msd  Acquired: 8/15/2013 3:17:01  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186939 TCLP AFCEE 4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW .19388 | kF 1.7336 | kF -9.1251 | k .66657 | 2.0829 | k .00865 | kF 2.3677 | 15.756 | k .46350 | k .21196 |
| Stddev | .00018 | .0122 | .0025 | .00283 | .0032 | .00009 | .0038 | .018 | .00008 | .00020 |
| %RSD | .09421 | .70222 | .02761 | .42429 | .15299 | 1.0081 | .16143 | .11597 | .01686 | .09493 |
| #1 | k .19401 | k 1.7422 | k -9.1233 | k .66857 | 2.0852 | k .00871 | k 2.3704 | 15.769 | k .46355 | k .21182 |
| #2 | k .19375 | k 1.7250 | k -9.1269 | k .66457 | 2.0806 | k .00859 | k 2.3650 | 15.743 | k .46344 | k .21210 |
| Check ? | Chk Warn | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | 1000.0 | 50.000 | | | | .10000 | | | |
| Low Limit | -.01000 | 2.0000 | -.02000 | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF 526.67 | k .33310 | k 73.476 | W 170.20 | k .16935 | k 8.6238 | k .09817 | k .38815 | 14.105 | k .16888 |
| Stddev | 1.41 | .00010 | .026 | .17 | .00101 | .0300 | .00009 | .00052 | .064 | .00007 |
| %RSD | .26714 | .02998 | .03473 | .09813 | .59742 | .34779 | .09002 | .13394 | .45115 | .04146 |
| #1 | k 525.67 | k .33317 | k 73.458 | 170.31 | k .17007 | k 8.6450 | k .09823 | k .38852 | 14.150 | k .16883 |
| #2 | k 527.66 | k .33303 | k 73.494 | 170.08 | k .16864 | k 8.6026 | k .09810 | k .38778 | 14.060 | k .16893 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | 100.00 | | | | | | |
| Low Limit | -.02000 | | | -.50000 | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW 3.5425 | k 1.9511 | k 2.0807 | kW 14.126 | k 1.0547 | k 4.2649 | k 9.1268 | k .97230 | .19793 | k .22881 |
| Stddev | .0113 | .0045 | .0042 | .044 | .0102 | .0180 | .0385 | .00361 | .00024 | .00064 |
| %RSD | .32018 | .22961 | .20275 | .30879 | .96531 | .42163 | .42163 | .37115 | .12031 | .27939 |
| #1 | k 3.5506 | k 1.9543 | k 2.0837 | k 14.157 | k 1.0619 | k 4.2776 | k 9.1540 | k .97485 | .19810 | k .22927 |
| #2 | k 3.5345 | k 1.9480 | k 2.0777 | k 14.096 | k 1.0475 | k 4.2521 | k 9.0996 | k .96975 | .19776 | k .22836 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | 2.0000 | | | | | | |
| Low Limit | -1.0000 | | | -.01000 | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .28352 | k .82286 | k .04868 | ^ ***** | k .51551 | k .09949 |
| Stddev | .00033 | .00335 | .00786 | ----- | .00089 | .00015 |
| %RSD | .11570 | .40682 | 16.149 | ----- | .17211 | .15214 |
| #1 | k .28375 | k .82522 | k .05424 | ^ ----- | k .51614 | k .09938 |
| #2 | k .28328 | k .82049 | k .04312 | ^ ----- | k .51488 | k .09959 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 4374.6 | 111950. | 9971.3 |
| Stddev | 2.9 | 470. | 7.6 |
| %RSD | .06656 | .41973 | .07609 |
| #1 | 4376.7 | 111620. | 9976.7 |
| #2 | 4372.5 | 112280. | 9966.0 |

Sample Name: 280-45178-a-1-bPDS  Acquired: 8/15/2013 3:19:13  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186939 TCLP AFCEE 4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.04655** | kW **2.6460** | kF **-12.450** | **.60192** | k **.11748** | k **.05226** | kF **2.0130** | **28.887** | k **.20700** | k **.17264** |
| Stddev | .00016 | .0106 | .069 | .00423 | .00075 | .00055 | .0032 | .161 | .00063 | .00086 |
| %RSD | .34779 | .40100 | .55069 | .70257 | .63760 | 1.0512 | .16022 | .55573 | .30658 | .50013 |
| #1 | k .04666 | k 2.6385 | k -12.499 | .60491 | k .11695 | k .05187 | k 2.0153 | 28.773 | k .20745 | k .17325 |
| #2 | k .04643 | k 2.6535 | k -12.402 | .59893 | k .11801 | k .05265 | k 2.0107 | 29.000 | k .20656 | k .17203 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | 50.000 | | | | .10000 | | | |
| Low Limit | | 3.2000 | -.02000 | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kF **619.58** | k **.09441** | k **81.162** | W **198.98** | k **.10600** | k **20.557** | k **.06501** | k **.16644** | **26.878** | k **.11918** |
| Stddev | 1.14 | .00057 | .067 | .84 | .00256 | .006 | .00026 | .00081 | .099 | .00101 |
| %RSD | .18401 | .60729 | .08268 | .42149 | 2.4137 | .03123 | .39962 | .48422 | .36720 | .84937 |
| #1 | k 620.38 | k .09401 | k 81.114 | 198.38 | k .10419 | k 20.561 | k .06483 | k .16701 | 26.808 | k .11846 |
| #2 | k 618.77 | k .09482 | k 81.209 | 199.57 | k .10781 | k 20.552 | k .06519 | k .16587 | 26.948 | k .11989 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | 100.00 | | | | | | |
| Low Limit | -.02000 | | | -.50000 | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | kW **4.8434** | k **.22760** | k **2.5771** | kW **17.328** | k **.47154** | k **7.6726** | k **16.419** | k **.57812** | **.07809** | k **.28429** |
| Stddev | .0180 | .00045 | .0030 | .013 | .00387 | .0137 | .029 | .00253 | .00021 | .00063 |
| %RSD | .37060 | .19969 | .11603 | .07583 | .82166 | .17911 | .17911 | .43690 | .26274 | .22195 |
| #1 | k 4.8560 | k .22792 | k 2.5792 | k 17.318 | k .46880 | k 7.6629 | k 16.399 | k .57991 | .07795 | k .28474 |
| #2 | k 4.8307 | k .22728 | k 2.5750 | k 17.337 | k .47428 | k 7.6824 | k 16.440 | k .57634 | .07824 | k .28384 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | 2.0000 | | | | | | |
| Low Limit | -1.0000 | | | -.01000 | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.16992** | k **.62748** | k **.24302** | ^ ***** | k **.31339** | k **.06599** |
| Stddev | .00064 | .00042 | .00149 | ----- | .00035 | .00172 |
| %RSD | .37649 | .06647 | .61184 | ----- | .11199 | 2.6003 |
| #1 | k .16947 | k .62778 | k .24197 | ^ ----- | k .31314 | k .06478 |
| #2 | k .17037 | k .62719 | k .24407 | ^ ----- | k .31364 | k .06721 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **3896.3** | **110180.** | **9859.1** |
| Stddev | 3.9 | 94. | 6.6 |
| %RSD | .09914 | .08551 | .06676 |
| #1 | 3893.6 | 110110. | 9854.4 |
| #2 | 3899.0 | 110240. | 9863.8 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 3:21:26 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00103** | **50.211** | **.00491** | **.00391** | **.00065** | **-.00011** | **1.0163** | **-.01045** | **.00008** | **.00034** | **.04352** | **.00179** | **48.578** |
| Stddev | .00037 | .438 | .00174 | .00000 | .00034 | .00005 | .0036 | .00002 | .00012 | .00016 | .00540 | .00006 | .664 |
| %RSD | 36.261 | .87211 | 35.529 | .04201 | 52.345 | 51.660 | .35515 | .20554 | 157.89 | 45.839 | 12.410 | 3.2557 | 1.3664 |
| #1 | .00129 | 49.901 | .00614 | .00391 | .00090 | -.00014 | 1.0137 | -.01044 | -.00001 | .00023 | .03970 | .00174 | 48.108 |
| #2 | .00077 | 50.520 | .00367 | .00391 | .00041 | -.00007 | 1.0188 | -.01047 | .00016 | .00045 | .04733 | .00183 | 49.047 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.53871** | **.00099** | **-.01176** | **-.00006** | **.00017** | **248.82** | **.00063** | **.00210** | **.00106** | **5.1676** | **.00129** | **.00068** | **.01162** |
| Stddev | .03800 | .00205 | .00484 | .00008 | .00017 | 1.93 | .00024 | .00116 | .00127 | .0163 | .00118 | .00200 | .00014 |
| %RSD | 7.0545 | 206.70 | 41.197 | 126.50 | 99.546 | .77506 | 37.852 | 55.530 | 119.56 | .31578 | 91.417 | 295.51 | 1.1650 |
| #1 | .51184 | -.00046 | -.01518 | -.00012 | .00029 | 247.46 | .00080 | .00292 | .00016 | 5.1561 | .00212 | -.00074 | .01172 |
| #2 | .56558 | .00245 | -.00833 | -.00001 | .00005 | 250.18 | .00046 | .00127 | .00195 | 5.1792 | .00046 | .00209 | .01152 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02487** | **-.00025** | **.00042** | **4.9479** | **-.00001** | **.00026** | **10.080** | **.00114** | **.00042** | **.02263** |
| Stddev | .00029 | .00001 | .00002 | .0092 | .00005 | .00133 | .040 | .00020 | .00011 | .00657 |
| %RSD | 1.1650 | 3.9787 | 3.7294 | .18527 | 568.95 | 517.75 | .39291 | 17.086 | 27.068 | 29.032 |
| #1 | .02507 | -.00025 | .00041 | 4.9544 | .00003 | .00120 | 10.108 | .00101 | .00034 | .01799 |
| #2 | .02466 | -.00024 | .00043 | 4.9414 | -.00004 | -.00068 | 10.052 | .00128 | .00050 | .02728 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9153.0** | **114510.** | **9995.1** |
| Stddev | 35.5 | 646. | 25.0 |
| %RSD | .38833 | .56414 | .25054 |
| #1 | 9127.9 | 114050. | 9977.4 |
| #2 | 9178.1 | 114970. | 10013. |

Sample Name: CCV-2194461 Acquired: 8/15/2013 3:23:46 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49951** | **.52638** | **.98452** | **.50397** | **.47779** | **.49722** | **.00211** | **4.9538** | **.50852** | **.51419** | **.51311** | **.51351** | **2.4971** |
| Stddev | .00217 | .00074 | .00499 | .00098 | .00266 | .00286 | .00410 | .0269 | .00002 | .00015 | .00114 | .00006 | .0083 |
| %RSD | .43346 | .14036 | .50699 | .19503 | .55658 | .57465 | 193.91 | .54352 | .00408 | .02962 | .22254 | .01256 | .33255 |
| #1 | .50104 | .52586 | .98099 | .50467 | .47591 | .49520 | .00501 | 4.9348 | .50850 | .51409 | .51230 | .51356 | 2.5029 |
| #2 | .49798 | .52690 | .98805 | .50327 | .47967 | .49924 | -.00078 | 4.9729 | .50853 | .51430 | .51392 | .51347 | 2.4912 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.424** | **.96635** | **19.230** | **.50745** | **.48843** | **5.1613** | **.50118** | **.97344** | **1.0146** | **-.00006** | **1.0416** | **1.0002** | **4.8703** |
| Stddev | .284 | .00457 | .090 | .00033 | .00029 | .0383 | .00006 | .00064 | .0040 | .00269 | .0020 | .0005 | .0253 |
| %RSD | .57500 | .47301 | .46551 | .06570 | .05960 | .74232 | .01250 | .06563 | .39348 | 4660.9 | .18832 | .04977 | .51853 |
| #1 | 49.223 | .96311 | 19.293 | .50721 | .48822 | 5.1342 | .50114 | .97299 | 1.0118 | -.00196 | 1.0430 | 1.0005 | 4.8882 |
| #2 | 49.625 | .96958 | 19.167 | .50769 | .48864 | 5.1884 | .50123 | .97389 | 1.0174 | .00184 | 1.0402 | .99983 | 4.8525 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.422** | **.98191** | **.50715** | **-.00261** | **.51481** | **1.0396** | **-.00359** | **.50463** | **.48286** | **.50636** |
| Stddev | .054 | .00532 | .00335 | .00108 | .00017 | .0004 | .00827 | .00089 | .00017 | .00214 |
| %RSD | .51853 | .54212 | .66004 | 41.399 | .03288 | .03726 | 230.56 | .17632 | .03461 | .42244 |
| #1 | 10.461 | .97815 | .50479 | -.00184 | .51469 | 1.0394 | -.00943 | .50400 | .48274 | .50787 |
| #2 | 10.384 | .98567 | .50952 | -.00337 | .51493 | 1.0399 | .00226 | .50526 | .48298 | .50484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9408.3** | **118470.** | **10171.** |
| Stddev | 8.4 | 177. | 101. |
| %RSD | .08908 | .14954 | .99031 |
| #1 | 9414.2 | 118350. | 10242. |
| #2 | 9402.4 | 118600. | 10100. |

Sample Name: CCB  Acquired: 8/15/2013 3:25:52  Type: QC
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | W **.01954** | **.00210** | **.00264** | **-.00031** | **.00000** | **.00164** | **-.00102** | **.00022** | **.00005** | F **.02931** | **-.00107** |
| Stddev | .00035 | .00018 | .00011 | .00005 | .00018 | .0001 | .00048 | .00086 | .00010 | .00020 | .00280 | .00006 |
| %RSD | 454.11 | .89775 | 5.0749 | 1.7979 | 56.489 | 1432.5 | 29.058 | 84.809 | 43.465 | 371.69 | 9.5575 | 5.3883 |
| #1 | .00032 | .01941 | .00202 | .00268 | -.00019 | .00004 | .00198 | -.00041 | .00015 | -.00009 | .03129 | -.00103 |
| #2 | -.00017 | .01966 | .00217 | .00261 | -.00044 | -.00004 | .00131 | -.00163 | .00029 | .00020 | .02733 | -.00111 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | .01800 | | | | | | | | | .00186 | |
| Low Limit | | -.01800 | | | | | | | | | -.00186 | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00509** | W **.24862** | **.00157** | **.00042** | **.00005** | **.00048** | **.08034** | **-.00004** | **.00243** | **-.00058** | **.00237** | **.00182** |
| Stddev | .00007 | .03908 | .00123 | .00036 | .00000 | .00006 | .00995 | .00022 | .00106 | .00029 | .00161 | .00004 |
| %RSD | 1.2857 | 15.720 | 78.485 | 86.328 | 9.2503 | 13.298 | 12.380 | 552.44 | 43.738 | 49.859 | 68.122 | 2.2397 |
| #1 | .00514 | .22099 | .00070 | .00016 | .00005 | .00043 | .08737 | -.00020 | .00318 | -.00038 | .00351 | .00185 |
| #2 | .00504 | .27626 | .00244 | .00068 | .00004 | .00052 | .07331 | .00012 | .00168 | -.00079 | .00123 | .00179 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .23700 | | | | | | | | | | |
| Low Limit | | -.23700 | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00444** | **-.00477** | **-.01021** | **.00025** | **.00005** | **-.00047** | **.00029** | **-.00042** | **.02452** | **.00039** | **.00099** | **-.00139** |
| Stddev | .00133 | .01187 | .02541 | .00007 | .00024 | .00178 | .00015 | .00003 | .00670 | .00039 | .00016 | .00076 |
| %RSD | 29.966 | 248.77 | 248.77 | 29.731 | 510.60 | 381.14 | 52.181 | 7.4409 | 27.323 | 98.070 | 16.483 | 54.817 |
| #1 | .00539 | .00362 | .00775 | .00030 | .00021 | -.00173 | .00040 | -.00040 | .01978 | .00012 | .00111 | -.00193 |
| #2 | .00350 | -.01317 | -.02818 | .00020 | -.00012 | .00079 | .00018 | -.00044 | .02926 | .00067 | .00088 | -.00085 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9453.0** | **121410.** | **10140.** |
| Stddev | 12.0 | 1321. | 5. |
| %RSD | .12718 | 1.0883 | .05306 |
| #1 | 9461.5 | 122340. | 10143. |
| #2 | 9444.5 | 120480. | 10136. |

Sample Name: CCVL2197715 Acquired: 8/15/2013 3:28:07 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01054** | **.10943** | **.01716** | **.09595** | **.00926** | **.00103** | **.11190** | **.20015** | **.00511** | **.01080** | F **.02762** | **.01523** | **.10572** |
| Stddev | .00010 | .00060 | .00004 | .00020 | .00028 | .00000 | .00217 | .00119 | .00010 | .00020 | .00452 | .00009 | .00095 |
| %RSD | .95526 | .54853 | .20802 | .20699 | 2.9773 | .43335 | 1.9432 | .59498 | 2.0466 | 1.8379 | 16.379 | .55977 | .90254 |
| #1 | .01061 | .10900 | .01718 | .09581 | .00945 | .00102 | .11344 | .19931 | .00504 | .01066 | .02442 | .01529 | .10640 |
| #2 | .01047 | .10985 | .01713 | .09609 | .00906 | .00103 | .11036 | .20099 | .00519 | .01094 | .03081 | .01517 | .10505 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | 30.000% | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2993** | **.01090** | **.19883** | **.01037** | **.01936** | **1.1351** | **.04114** | **2.7718** | **.00963** | **.00071** | **.01027** | **.01658** | **.46917** |
| Stddev | .0327 | .00230 | .00221 | .00009 | .00033 | .0072 | .00010 | .0074 | .00040 | .00036 | .00157 | .00257 | .00389 |
| %RSD | .98989 | 21.062 | 1.1130 | .90962 | 1.7100 | .63431 | .24676 | .26599 | 4.1406 | 50.267 | 15.298 | 15.478 | .82854 |
| #1 | 3.2762 | .01252 | .20039 | .01044 | .01959 | 1.1300 | .04106 | 2.7770 | .00935 | .00046 | .01138 | .01839 | .46642 |
| #2 | 3.3224 | .00927 | .19726 | .01030 | .01912 | 1.1402 | .04121 | 2.7666 | .00991 | .00097 | .00916 | .01476 | .47192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0040** | **.09935** | **.01042** | **.01439** | **.01047** | **.01513** | F **.12900** | **.01066** | **.02202** | **.01418** |
| Stddev | .0083 | .00061 | .00012 | .00149 | .00014 | .00041 | .01953 | .00021 | .00007 | .00107 |
| %RSD | .82854 | .61493 | 1.1801 | 10.375 | 1.3130 | 2.6845 | 15.138 | 1.9768 | .31405 | 7.5265 |
| #1 | .99813 | .09979 | .01033 | .01333 | .01038 | .01484 | .14281 | .01051 | .02197 | .01342 |
| #2 | 1.0099 | .09892 | .01050 | .01545 | .01057 | .01541 | .11519 | .01081 | .02207 | .01493 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9437.0** | **120840.** | **10097.** |
| Stddev | 10.7 | 167. | 52. |
| %RSD | .11354 | .13816 | .51439 |
| #1 | 9429.4 | 120960. | 10134. |
| #2 | 9444.6 | 120720. | 10061. |

Sample Name: mb 280-187079/1-a  Acquired: 8/15/2013 3:30:22  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 MICRO 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.02271** | **.00129** | **.00832** | **.00008** | **-.00001** | **-.00925** | F **.27897** | **.00063** | **-.00023** |
| Stddev | .00001 | .00034 | .00221 | .00005 | .00016 | .00003 | .00004 | .00223 | .00024 | .00016 |
| %RSD | 9.4133 | 1.5167 | 170.95 | .61296 | 189.00 | 522.04 | .40421 | .79877 | 37.913 | 71.617 |
| #1 | -.00014 | .02247 | .00285 | .00828 | .00019 | -.00003 | -.00923 | .28055 | .00080 | -.00034 |
| #2 | -.00012 | .02295 | -.00027 | .00835 | -.00003 | .00002 | -.00928 | .27740 | .00046 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .20000 | | |
| Low Limit | | | | | | | | -.20000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.02713** | **-.00209** | **.01724** | **.88047** | **.00231** | **.03912** | **.00026** | **.00171** | W **.99211** | **.00031** |
| Stddev | .00687 | .00034 | .00051 | .01693 | .00248 | .00177 | .00007 | .00039 | .01311 | .00015 |
| %RSD | 25.315 | 16.268 | 2.9499 | 1.9233 | 107.12 | 4.5275 | 25.586 | 23.035 | 1.3215 | 48.531 |
| #1 | .02227 | -.00185 | .01760 | .86850 | .00056 | .04037 | .00021 | .00143 | 1.0014 | .00020 |
| #2 | .03199 | -.00233 | .01688 | .89245 | .00407 | .03787 | .00030 | .00198 | .98284 | .00042 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | .01000 | | | | | | | | .50000 | |
| Low Limit | -.01000 | | | | | | | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00671** | **.00011** | W **.05168** | **.00111** | **.00551** | **.02941** | **.06293** | **.00582** | **.00233** | **.00380** |
| Stddev | .00074 | .00102 | .00150 | .00055 | .00052 | .01079 | .02310 | .00098 | .00005 | .00071 |
| %RSD | 11.012 | 897.57 | 2.9078 | 49.166 | 9.4403 | 36.702 | 36.702 | 16.896 | 2.2352 | 18.644 |
| #1 | .00619 | .00084 | .05062 | .00150 | .00514 | .02178 | .04660 | .00512 | .00237 | .00330 |
| #2 | .00724 | -.00061 | .05274 | .00073 | .00588 | .03704 | .07927 | .00651 | .00230 | .00431 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | | | | | |
| Low Limit | | | -.05000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00104** | **-.00422** | **.02888** | **.00092** | **.00270** | **-.00009** |
| Stddev | .00004 | .00032 | .01355 | .00013 | .00022 | .00011 |
| %RSD | 4.3073 | 7.5413 | 46.919 | 13.637 | 8.2084 | 123.35 |
| #1 | .00107 | -.00399 | .03846 | .00083 | .00285 | -.00017 |
| #2 | .00101 | -.00444 | .01930 | .00101 | .00254 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8830.9** | **115460.** | **9563.8** |
| Stddev | 7.6 | 520. | 151.3 |
| %RSD | .08651 | .45074 | 1.5815 |
| #1 | 8825.5 | 115090. | 9456.8 |
| #2 | 8836.3 | 115820. | 9670.7 |

Sample Name: lcs 280-187079/2-a Acquired: 8/15/2013 3:32:37 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187079 MICRO 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .86037 | 1.0244 | .93373 | .83587 | .96210 | .97294 | -.00679 | 5.2990 | .92857 | W 1.0109 |
| Stddev | .00105 | .0003 | .00288 | .00018 | .00439 | .00705 | .00221 | .0316 | .00142 | .0012 |
| %RSD | .12248 | .03269 | .30810 | .02171 | .45662 | .72461 | 32.602 | .59585 | .15262 | .11603 |
| #1 | .85963 | 1.0241 | .93577 | .83600 | .95900 | .96796 | -.00836 | 5.2767 | .92957 | 1.0117 |
| #2 | .86112 | 1.0246 | .93170 | .83574 | .96521 | .97793 | -.00523 | 5.3213 | .92757 | 1.0101 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | | | | | 1.0000 |
| Low Limit | -.01000 | | | | | | | | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0359 | .99130 | 1.0848 | 5.6851 | -.00021 | 4.4543 | 1.0442 | 1.0143 | 5.9525 | 1.0144 |
| Stddev | .0009 | .00256 | .0075 | .0095 | .00138 | .0082 | .0017 | .0018 | .0465 | .0010 |
| %RSD | .08696 | .25792 | .69034 | .16665 | 646.37 | .18482 | .16062 | .17736 | .78128 | .09534 |
| #1 | 1.0353 | .98949 | 1.0795 | 5.6784 | -.00119 | 4.4485 | 1.0430 | 1.0156 | 5.9196 | 1.0151 |
| #2 | 1.0365 | .99311 | 1.0901 | 5.6918 | .00076 | 4.4601 | 1.0454 | 1.0131 | 5.9854 | 1.0137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .47235 | 1.0026 | 33.988 | .90284 | .92417 | .94550 | 2.0234 | .97139 | .00847 | .00388 |
| Stddev | .00096 | .0027 | .089 | .00195 | .00251 | .00092 | .0020 | .00029 | .00008 | .00021 |
| %RSD | .20370 | .26462 | .26066 | .21624 | .27192 | .09682 | .09682 | .02949 | .89521 | 5.3508 |
| #1 | .47303 | 1.0045 | 34.051 | .90146 | .92239 | .94485 | 2.0220 | .97118 | .00842 | .00403 |
| #2 | .47167 | 1.0007 | 33.926 | .90422 | .92594 | .94615 | 2.0248 | .97159 | .00853 | .00374 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0081 | W -.01391 | .00066 | 1.0223 | .95633 | -.00234 |
| Stddev | .0001 | .00109 | .01760 | .0013 | .00052 | .00057 |
| %RSD | .01424 | 7.8525 | 2678.0 | .13137 | .05453 | 24.352 |
| #1 | 1.0082 | -.01468 | .01310 | 1.0213 | .95596 | -.00274 |
| #2 | 1.0080 | -.01314 | -.01179 | 1.0232 | .95670 | -.00194 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 9175.1 | 117370. | 9875.1 |
| Stddev | 24.3 | 290. | 44.6 |
| %RSD | .26530 | .24698 | .45192 |
| #1 | 9157.8 | 117160. | 9843.5 |
| #2 | 9192.3 | 117570. | 9906.6 |

Sample Name: 280-44975-a-2-h  Acquired: 8/15/2013 3:34:46  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 MICRO 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.01458** | **.00793** | **.02087** | **.02893** | **.00012** | **-.01190** | **3.5045** | **.02079** | **-.00021** |
| Stddev | .00005 | .00002 | .00106 | .00014 | .01265 | .00006 | .00148 | 1.4608 | .00005 | .00004 |
| %RSD | 10.270 | .11011 | 13.390 | .64728 | 43.723 | 46.877 | 12.446 | 41.682 | .24834 | 21.120 |
| #1 | .00048 | .01457 | .00718 | .02097 | .01999 | .00016 | -.01295 | 2.4716 | .02083 | -.00024 |
| #2 | .00041 | .01459 | .00868 | .02078 | .03788 | .00008 | -.01085 | 4.5375 | .02075 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00312** | **.04649** | **.04543** | **.99929** | **.00566** | **.46446** | **.00432** | **.01684** | **1.0977** | **-.00041** |
| Stddev | .00047 | .00021 | .01318 | .32791 | .00112 | .00306 | .00005 | .00022 | .4274 | .00000 |
| %RSD | 15.193 | .46092 | 29.021 | 32.814 | 19.838 | .65908 | 1.2657 | 1.3024 | 38.940 | .80671 |
| #1 | .00278 | .04634 | .03611 | .76742 | .00645 | .46229 | .00428 | .01669 | .79542 | -.00041 |
| #2 | .00345 | .04665 | .05475 | 1.2312 | .00486 | .46662 | .00435 | .01700 | 1.3999 | -.00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9879** | **.03076** | **7.2845** | **.00267** | **.02084** | **.11804** | **.25261** | **.00802** | **.00333** | **.00295** |
| Stddev | .0110 | .00139 | .0044 | .00049 | .00214 | .01158 | .02477 | .00035 | .00123 | .00019 |
| %RSD | .55129 | 4.5114 | .06029 | 18.557 | 10.248 | 9.8063 | 9.8063 | 4.3986 | 37.017 | 6.3504 |
| #1 | 1.9956 | .02978 | 7.2876 | .00302 | .02235 | .12623 | .27013 | .00777 | .00246 | .00282 |
| #2 | 1.9801 | .03174 | 7.2814 | .00232 | .01933 | .10986 | .23510 | .00827 | .00420 | .00308 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00109** | **-.00838** | **.05070** | **.00108** | **2.4711** | **.00037** |
| Stddev | .00026 | .00070 | .01080 | .00009 | .0215 | .00239 |
| %RSD | 24.032 | 8.3180 | 21.301 | 8.2680 | .86840 | 639.34 |
| #1 | .00127 | -.00789 | .05834 | .00101 | 2.4559 | .00206 |
| #2 | .00090 | -.00888 | .04306 | .00114 | 2.4863 | -.00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9333.6** | **118960.** | **12038.** |
| Stddev | 31.4 | 146. | 2517. |
| %RSD | .33679 | .12273 | 20.905 |
| #1 | 9311.3 | 119060. | 13817. |
| #2 | 9355.8 | 118860. | 10258. |

Sample Name: 280-44975-a-2-h SD@5 Acquired: 8/15/2013 3:37:03 Type: Unk
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187079 MICRO 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.02172** | **.00275** | **.00673** | **.00736** | **.00001** | **-.00267** | **.96180** | **.00463** | **.00019** |
| Stddev | .00038 | .00013 | .00106 | .00035 | .00052 | .00004 | .00008 | .00640 | .00019 | .00002 |
| %RSD | 496.92 | .60744 | 38.528 | 5.1351 | 7.0873 | 452.25 | 2.8374 | .66553 | 4.1381 | 9.2036 |
| #1 | .00034 | .02182 | .00350 | .00697 | .00700 | .00004 | -.00262 | .95727 | .00476 | .00020 |
| #2 | -.00019 | .02163 | .00200 | .00649 | .00773 | -.00002 | -.00273 | .96632 | .00449 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00988** | **.00899** | **.01989** | **.41559** | **.00095** | **.10642** | **.00102** | **.00332** | **.34369** | **-.00013** |
| Stddev | .00087 | .00035 | .00090 | .01700 | .00256 | .00072 | .00001 | .00002 | .00939 | .00016 |
| %RSD | 8.8288 | 3.8493 | 4.5463 | 4.0895 | 270.61 | .68012 | .52179 | .50114 | 2.7311 | 123.69 |
| #1 | .01050 | .00924 | .02053 | .40357 | -.00087 | .10591 | .00102 | .00333 | .33705 | -.00024 |
| #2 | .00926 | .00875 | .01925 | .42760 | .00276 | .10693 | .00103 | .00330 | .35032 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41204** | **.00655** | **1.5311** | **-.00138** | **.00615** | **.01792** | **.03834** | **.00138** | **.00094** | **.00309** |
| Stddev | .00149 | .00037 | .0071 | .00010 | .00177 | .00401 | .00859 | .00029 | .00001 | .00117 |
| %RSD | .36200 | 5.7171 | .46378 | 6.9272 | 28.715 | 22.403 | 22.403 | 20.771 | .66192 | 37.674 |
| #1 | .41099 | .00629 | 1.5261 | -.00131 | .00491 | .02076 | .04442 | .00159 | .00094 | .00227 |
| #2 | .41310 | .00682 | 1.5361 | -.00144 | .00740 | .01508 | .03227 | .00118 | .00095 | .00392 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **-.00271** | **.01978** | **.00022** | **.49885** | **-.00112** |
| Stddev | .00005 | .00010 | .01628 | .00010 | .00073 | .00150 |
| %RSD | 7.2827 | 3.5841 | 82.344 | 42.930 | .14655 | 133.34 |
| #1 | .00069 | -.00264 | .03129 | .00015 | .49833 | -.00006 |
| #2 | .00062 | -.00278 | .00826 | .00029 | .49936 | -.00218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9900.8** | **128120.** | **10627.** |
| Stddev | 10.0 | 219. | 74. |
| %RSD | .10070 | .17126 | .69455 |
| #1 | 9907.9 | 127960. | 10575. |
| #2 | 9893.8 | 128270. | 10679. |

Sample Name: 280-44975-a-2-i ms  Acquired: 8/15/2013 3:39:16  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 MICRO 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **.91287** | **1.0849** | **1.0448** | **.89698** | **1.0449** | W **1.0189** | **-.00929** | **9.9263** | **1.0079** | W **1.0776** |
| Stddev | .00136 | .0045 | .0044 | .00079 | .0114 | .0129 | .00169 | .1415 | .0002 | .0003 |
| %RSD | .14916 | .41218 | .42242 | .08774 | 1.0873 | 1.2692 | 18.142 | 1.4253 | .02426 | .02563 |
| #1 | .91383 | 1.0817 | 1.0479 | .89753 | 1.0368 | 1.0097 | -.00810 | 9.8263 | 1.0081 | 1.0778 |
| #2 | .91190 | 1.0880 | 1.0416 | .89642 | 1.0529 | 1.0280 | -.01048 | 10.026 | 1.0077 | 1.0774 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | 1.0000 | | | | 1.0000 |
| Low Limit | -.01000 | | | | | -.00200 | | | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0977** | **1.0964** | **1.1469** | **6.2455** | **.00066** | **5.1234** | **1.1173** | **1.0986** | **6.6052** | **1.0857** |
| Stddev | .0014 | .0000 | .0096 | .0906 | .00197 | .0052 | .0012 | .0008 | .0466 | .0013 |
| %RSD | .12380 | .00126 | .83714 | 1.4515 | 300.06 | .10212 | .10335 | .07080 | .70579 | .11771 |
| #1 | 1.0967 | 1.0965 | 1.1401 | 6.1814 | -.00074 | 5.1197 | 1.1165 | 1.0980 | 6.5722 | 1.0848 |
| #2 | 1.0986 | 1.0964 | 1.1537 | 6.3096 | .00205 | 5.1271 | 1.1181 | 1.0991 | 6.6382 | 1.0866 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.8593** | **1.0967** | **54.729** | **.98387** | **1.0990** | **1.0564** | **2.2606** | **1.0457** | **.01198** | **.00286** |
| Stddev | .0019 | .0045 | .049 | .00055 | .0014 | .0138 | .0296 | .0027 | .00011 | .00033 |
| %RSD | .06734 | .41167 | .08953 | .05634 | .12966 | 1.3109 | 1.3109 | .25611 | .95530 | 11.654 |
| #1 | 2.8580 | 1.0935 | 54.764 | .98348 | 1.0980 | 1.0466 | 2.2397 | 1.0476 | .01190 | .00262 |
| #2 | 2.8607 | 1.0998 | 54.695 | .98426 | 1.1000 | 1.0662 | 2.2816 | 1.0438 | .01206 | .00310 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0738** | W **-.01483** | **.02318** | **1.0918** | **3.4827** | **-.00047** |
| Stddev | .0025 | .00016 | .00915 | .0048 | .0113 | .00136 |
| %RSD | .23477 | 1.0779 | 39.466 | .44153 | .32562 | 292.89 |
| #1 | 1.0720 | -.01494 | .02965 | 1.0884 | 3.4747 | -.00143 |
| #2 | 1.0756 | -.01472 | .01671 | 1.0952 | 3.4907 | .00050 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9534.7** | **122300.** | **10589.** |
| Stddev | 27.6 | 31. | 91. |
| %RSD | .28916 | .02566 | .86370 |
| #1 | 9515.2 | 122330. | 10653. |
| #2 | 9554.2 | 122280. | 10524. |

Sample Name: 280-44975-a-2-j msd  Acquired: 8/15/2013 3:41:24  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 MICRO 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .93927 | 1.1075 | 1.0525 | .91838 | 1.0678 | W 1.0367 | -.00525 | 10.030 | 1.0264 | W 1.0888 |
| Stddev | .00322 | .0009 | .0033 | .00023 | .0060 | .0024 | .00101 | .028 | .0009 | .0003 |
| %RSD | .34333 | .07770 | .31510 | .02521 | .56015 | .23266 | 19.242 | .27523 | .08739 | .02345 |
| #1 | .93699 | 1.1069 | 1.0548 | .91854 | 1.0720 | 1.0384 | -.00454 | 10.049 | 1.0270 | 1.0886 |
| #2 | .94155 | 1.1081 | 1.0501 | .91821 | 1.0635 | 1.0350 | -.00597 | 10.010 | 1.0257 | 1.0889 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | 1.0000 | | | | 1.0000 |
| Low Limit | -.01000 | | | | | -.00200 | | | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.1044 | 1.1146 | 1.1723 | 6.1716 | .00129 | 5.2707 | 1.1363 | 1.1043 | 6.5385 | 1.0977 |
| Stddev | .0003 | .0022 | .0030 | .0161 | .00081 | .0239 | .0048 | .0016 | .0025 | .0010 |
| %RSD | .02790 | .19506 | .25687 | .26026 | 62.452 | .45380 | .42525 | .14845 | .03876 | .09218 |
| #1 | 1.1042 | 1.1130 | 1.1744 | 6.1829 | .00072 | 5.2538 | 1.1329 | 1.1055 | 6.5403 | 1.0984 |
| #2 | 1.1047 | 1.1161 | 1.1702 | 6.1602 | .00187 | 5.2877 | 1.1397 | 1.1032 | 6.5367 | 1.0970 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 3.0384 | 1.1179 | 65.487 | 1.0097 | 1.1084 | 1.1111 | 2.3778 | 1.0394 | .01150 | .00154 |
| Stddev | .0077 | .0054 | .025 | .0016 | .0018 | .0078 | .0166 | .0042 | .00005 | .00093 |
| %RSD | .25349 | .48422 | .03852 | .15928 | .16350 | .69928 | .69928 | .40294 | .47637 | 60.780 |
| #1 | 3.0330 | 1.1141 | 65.505 | 1.0086 | 1.1072 | 1.1166 | 2.3896 | 1.0365 | .01154 | .00220 |
| #2 | 3.0439 | 1.1217 | 65.470 | 1.0109 | 1.1097 | 1.1056 | 2.3661 | 1.0424 | .01146 | .00088 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0853 | W -.01485 | -.00072 | 1.1005 | 3.5306 | .00130 |
| Stddev | .0041 | .00060 | .00075 | .0047 | .0140 | .00037 |
| %RSD | .37666 | 4.0297 | 103.27 | .42541 | .39588 | 28.747 |
| #1 | 1.0825 | -.01527 | -.00125 | 1.0972 | 3.5207 | .00104 |
| #2 | 1.0882 | -.01442 | -.00020 | 1.1038 | 3.5405 | .00156 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 9687.3 | 123940. | 10555. |
| Stddev | 7.1 | 794. | 37. |
| %RSD | .07342 | .64029 | .35105 |
| #1 | 9692.3 | 124500. | 10529. |
| #2 | 9682.3 | 123380. | 10581. |

Sample Name: 280-45088-a-1-c  Acquired: 8/15/2013 3:43:32  Type: Unk
Method: 6500_025(v7)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 MICRO 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **1.2720** | **.06013** | **.13655** | **3.6971** | **.00005** | **-.01617** | **33.370** | **.03288** | **.00114** |
| Stddev | .00006 | .0016 | .00241 | .00012 | .0006 | .00003 | .00326 | .122 | .00025 | .00017 |
| %RSD | 28.815 | .12802 | 4.0058 | .08860 | .01639 | 70.132 | 20.177 | .36661 | .76296 | 14.790 |
| #1 | .00026 | 1.2709 | .05843 | .13646 | 3.6967 | .00007 | -.01386 | 33.283 | .03270 | .00102 |
| #2 | .00017 | 1.2732 | .06183 | .13664 | 3.6975 | .00002 | -.01847 | 33.456 | .03305 | .00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04216** | **3.4332** | **23.756** | **2.1110** | **.00280** | **1.5525** | **.19966** | **.38617** | **2.2802** | **.03470** |
| Stddev | .00066 | .0027 | .153 | .0219 | .00306 | .0014 | .00007 | .00230 | .0203 | .00028 |
| %RSD | 1.5678 | .07963 | .64265 | 1.0370 | 109.09 | .09107 | .03700 | .59455 | .89176 | .82109 |
| #1 | .04169 | 3.4312 | 23.648 | 2.0955 | .00496 | 1.5515 | .19971 | .38454 | 2.2658 | .03450 |
| #2 | .04262 | 3.4351 | 23.864 | 2.1265 | .00064 | 1.5535 | .19960 | .38779 | 2.2945 | .03490 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **14.687** | **.57660** | **19.582** | **.00053** | **.01995** | **6.0092** | **12.860** | **.04886** | **.05248** | **.00207** |
| Stddev | .012 | .00420 | .030 | .00083 | .00104 | .0083 | .018 | .00021 | .00000 | .00174 |
| %RSD | .07852 | .72829 | .15454 | 156.97 | 5.1914 | .13849 | .13849 | .43683 | .00176 | 83.734 |
| #1 | 14.678 | .57363 | 19.561 | -.00006 | .02068 | 6.0033 | 12.847 | .04871 | .05248 | .00330 |
| #2 | 14.695 | .57957 | 19.604 | .00112 | .01922 | 6.0150 | 12.872 | .04901 | .05248 | .00085 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06640** | **-.00729** | **-.00369** | **.00411** | W **13.932** | **.00479** |
| Stddev | .00031 | .00031 | .00088 | .00016 | .026 | .00059 |
| %RSD | .46155 | 4.2661 | 23.921 | 3.9033 | .19006 | 12.366 |
| #1 | .06661 | -.00751 | -.00432 | .00422 | 13.950 | .00521 |
| #2 | .06618 | -.00707 | -.00307 | .00400 | 13.913 | .00437 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 10.000 | |
| Low Limit | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9096.3** | **116750.** | **9946.7** |
| Stddev | 18.4 | 486. | 13.3 |
| %RSD | .20265 | .41609 | .13324 |
| #1 | 9083.3 | 116410. | 9937.4 |
| #2 | 9109.3 | 117100. | 9956.1 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 3:45:44 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **50.198** | **.00214** | **.00434** | **.00080** | **-.00001** | **1.0199** | **-.00681** | **.00014** | **.00019** | **.00228** | **.00111** | **48.112** |
| Stddev | .00057 | .091 | .00120 | .00000 | .00017 | .00002 | .0018 | .00031 | .00003 | .00002 | .00001 | .00038 | .005 |
| %RSD | 271.11 | .18157 | 56.144 | .06649 | 21.515 | 427.17 | .18045 | 4.5763 | 18.744 | 13.304 | .36153 | 33.872 | .00955 |
| #1 | .00062 | 50.133 | .00299 | .00434 | .00092 | -.00002 | 1.0186 | -.00703 | .00016 | .00017 | .00228 | .00084 | 48.115 |
| #2 | -.00019 | 50.262 | .00129 | .00434 | .00067 | .00001 | 1.0212 | -.00659 | .00012 | .00020 | .00229 | .00137 | 48.109 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23994** | **.00285** | **-.01211** | **-.00006** | **-.00021** | **247.38** | **.00077** | **.00589** | **.00053** | **5.1753** | **.00158** | **.00064** | **.05473** |
| Stddev | .01802 | .00009 | .00474 | .00002 | .00007 | .17 | .00022 | .00088 | .00016 | .0013 | .00200 | .00154 | .00709 |
| %RSD | 7.5084 | 3.0428 | 39.138 | 36.063 | 34.367 | .06893 | 28.447 | 14.941 | 30.987 | .02426 | 126.81 | 241.33 | 12.948 |
| #1 | .22720 | .00279 | -.01546 | -.00004 | -.00026 | 247.26 | .00092 | .00651 | .00041 | 5.1744 | .00016 | -.00045 | .05974 |
| #2 | .25268 | .00291 | -.00876 | -.00007 | -.00016 | 247.50 | .00062 | .00527 | .00065 | 5.1762 | .00300 | .00173 | .04972 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11712** | **.00043** | **.00046** | **4.9906** | **.00005** | **-.00047** | **10.057** | **.00079** | **.00143** | **.01865** |
| Stddev | .01516 | .00020 | .00014 | .0079 | .00049 | .00018 | .023 | .00028 | .00022 | .00247 |
| %RSD | 12.948 | 47.639 | 29.995 | .15767 | 1083.0 | 39.017 | .22930 | 35.409 | 15.289 | 13.256 |
| #1 | .12784 | .00057 | .00036 | 4.9850 | .00039 | -.00060 | 10.073 | .00099 | .00159 | .01690 |
| #2 | .10640 | .00028 | .00055 | 4.9961 | -.00030 | -.00034 | 10.040 | .00059 | .00128 | .02039 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9671.1** | **120920.** | **10502.** |
| Stddev | 26.3 | 101. | 42. |
| %RSD | .27203 | .08352 | .40325 |
| #1 | 9689.7 | 120990. | 10472. |
| #2 | 9652.5 | 120850. | 10532. |

Sample Name: CCV-2194461 Acquired: 8/15/2013 3:48:05 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50445** | F **.57121** | **.98012** | **.50260** | **.47642** | **.49552** | **.00257** | **4.9494** | **.50990** | **.51222** | **.49282** | **.51853** | **2.4931** |
| Stddev | .00049 | .00253 | .00501 | .00110 | .00066 | .00221 | .00003 | .0088 | .00146 | .00011 | .00069 | .00115 | .0045 |
| %RSD | .09643 | .44210 | .51109 | .21835 | .13789 | .44505 | 1.0388 | .17837 | .28719 | .02203 | .14080 | .22162 | .17966 |
| #1 | .50480 | .56943 | .97658 | .50183 | .47595 | .49396 | .00255 | 4.9432 | .50887 | .51230 | .49232 | .51772 | 2.4963 |
| #2 | .50411 | .57300 | .98367 | .50338 | .47688 | .49708 | .00259 | 4.9557 | .51094 | .51214 | .49331 | .51935 | 2.4899 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | | |
| Range | | 10.490% | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.271** | **.96418** | **19.225** | **.50715** | **.48852** | **5.1862** | **.49796** | **.97719** | **1.0169** | **.01262** | **1.0532** | **1.0040** | **4.9407** |
| Stddev | .167 | .00132 | .077 | .00022 | .00468 | .0014 | .00010 | .01216 | .0067 | .00105 | .0128 | .0128 | .0346 |
| %RSD | .33857 | .13648 | .40025 | .04356 | .95724 | .02752 | .02059 | 1.2448 | .66360 | 8.3323 | 1.2180 | 1.2724 | .70090 |
| #1 | 49.153 | .96325 | 19.279 | .50730 | .48522 | 5.1852 | .49788 | .96859 | 1.0121 | .01337 | 1.0441 | .99497 | 4.9162 |
| #2 | 49.389 | .96511 | 19.171 | .50699 | .49183 | 5.1872 | .49803 | .98579 | 1.0217 | .01188 | 1.0622 | 1.0130 | 4.9652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.573** | **.98301** | **.50524** | **-.00163** | **.51464** | **1.0453** | **.04018** | **.50250** | **.48016** | **.50753** |
| Stddev | .074 | .00707 | .00193 | .00081 | .00011 | .0077 | .00835 | .00048 | .00208 | .00065 |
| %RSD | .70090 | .71945 | .38212 | 49.849 | .02126 | .73488 | 20.780 | .09470 | .43371 | .12764 |
| #1 | 10.521 | .97801 | .50388 | -.00220 | .51456 | 1.0398 | .04608 | .50283 | .48163 | .50708 |
| #2 | 10.626 | .98801 | .50661 | -.00105 | .51472 | 1.0507 | .03428 | .50216 | .47868 | .50799 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9596.9** | **121800.** | **10379.** |
| Stddev | 4.0 | 380. | 27. |
| %RSD | .04153 | .31229 | .26169 |
| #1 | 9599.7 | 121530. | 10360. |
| #2 | 9594.1 | 122070. | 10398. |

Sample Name: CCB Acquired: 8/15/2013 3:50:12 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00024** | **.00145** | **.00293** | **-.00046** | **.00005** | **.00138** | **-.00028** | **-.00004** | **.00013** | **.00091** | **-.00084** | **.00243** |
| Stddev | .00003 | .00026 | .00015 | .00038 | .00008 | .00002 | .00059 | .00378 | .00001 | .00009 | .00012 | .00024 | .00102 |
| %RSD | 55.674 | 110.14 | 10.026 | 12.921 | 16.632 | 51.757 | 42.585 | 1335.0 | 18.231 | 67.275 | 13.492 | 28.530 | 42.098 |
| #1 | .00003 | .00005 | .00134 | .00320 | -.00040 | .00006 | .00096 | .00239 | -.00004 | .00007 | .00099 | -.00101 | .00171 |
| #2 | .00008 | .00043 | .00155 | .00266 | -.00051 | .00003 | .00179 | -.00295 | -.00003 | .00019 | .00082 | -.00067 | .00315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22083** | **-.00039** | **.00143** | **.00004** | **.00058** | **.08980** | **-.00021** | **.00094** | **-.00009** | **.01013** | **.00092** | **.00328** | **.00790** |
| Stddev | .05381 | .00061 | .00079 | .00001 | .00013 | .00164 | .00029 | .00038 | .00122 | .00324 | .00056 | .00368 | .00251 |
| %RSD | 24.370 | 157.52 | 55.592 | 25.313 | 22.277 | 1.8229 | 135.67 | 40.127 | 1369.3 | 32.023 | 61.169 | 112.14 | 31.709 |
| #1 | .18277 | -.00082 | .00087 | .00004 | .00067 | .08865 | -.00001 | .00120 | .00077 | .00783 | .00052 | .00068 | .00613 |
| #2 | .25888 | .00004 | .00199 | .00003 | .00049 | .09096 | -.00042 | .00067 | -.00095 | .01242 | .00131 | .00588 | .00968 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01691** | **.00069** | **.00011** | **.00106** | **.00006** | **-.00110** | **.03557** | **.00067** | **.00130** | **.00092** |
| Stddev | .00536 | .00026 | .00009 | .00165 | .00027 | .00044 | .01091 | .00070 | .00025 | .00090 |
| %RSD | 31.709 | 38.007 | 83.925 | 155.77 | 428.56 | 40.589 | 30.685 | 104.54 | 19.465 | 97.489 |
| #1 | .01312 | .00087 | .00005 | .00223 | -.00013 | -.00078 | .02785 | .00117 | .00112 | .00029 |
| #2 | .02070 | .00050 | .00018 | -.00011 | .00025 | -.00141 | .04329 | .00018 | .00148 | .00156 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9656.4** | **123440.** | **10190.** |
| Stddev | 16.9 | 699. | 6. |
| %RSD | .17461 | .56661 | .05748 |
| #1 | 9668.3 | 122940. | 10194. |
| #2 | 9644.5 | 123930. | 10185. |

Sample Name: CCVL2197715 Acquired: 8/15/2013 3:52:29 Type: QC
Method: 6500_025(v7) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01037** | **.10957** | **.01577** | **.09644** | **.00981** | **.00102** | **.10961** | **.20577** | **.00526** | **.01099** | **.01077** | **.01534** | **.10462** |
| Stddev | .00019 | .00041 | .00265 | .00092 | .00010 | .00004 | .00056 | .00315 | .00011 | .00009 | .00005 | .00019 | .00102 |
| %RSD | 1.8110 | .37487 | 16.789 | .95687 | 1.0304 | 3.6307 | .50656 | 1.5329 | 2.0492 | .80790 | .50809 | 1.2201 | .97771 |
| #1 | .01024 | .10928 | .01764 | .09709 | .00988 | .00104 | .10921 | .20801 | .00518 | .01093 | .01073 | .01547 | .10534 |
| #2 | .01050 | .10986 | .01389 | .09579 | .00974 | .00099 | .11000 | .20354 | .00533 | .01105 | .01081 | .01521 | .10390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2152** | F **.01342** | **.20372** | **.01060** | **.01952** | **1.1305** | **.04171** | **2.8011** | **.01014** | **.00987** | **.00914** | **.01619** | **.49540** |
| Stddev | .0362 | .00057 | .00126 | .00002 | .00010 | .0179 | .00028 | .0101 | .00041 | .00080 | .00211 | .00038 | .00164 |
| %RSD | 1.1245 | 4.2321 | .61994 | .16224 | .50620 | 1.5833 | .67470 | .36180 | 4.0419 | 8.0562 | 23.092 | 2.3264 | .33074 |
| #1 | 3.1897 | .01302 | .20461 | .01059 | .01959 | 1.1179 | .04191 | 2.8082 | .01043 | .01043 | .01063 | .01646 | .49425 |
| #2 | 3.2408 | .01382 | .20282 | .01061 | .01945 | 1.1432 | .04151 | 2.7939 | .00985 | .00931 | .00765 | .01592 | .49656 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0602** | **.10015** | **.01052** | **.01311** | **.01077** | **.01563** | F **.09416** | **.01076** | **.02084** | **.01673** |
| Stddev | .0035 | .00089 | .00002 | .00144 | .00013 | .00119 | .02865 | .00011 | .00023 | .00014 |
| %RSD | .33074 | .89341 | .18361 | 10.987 | 1.2062 | 7.6107 | 30.430 | 1.0684 | 1.1213 | .85167 |
| #1 | 1.0577 | .10078 | .01051 | .01209 | .01068 | .01479 | .11442 | .01084 | .02067 | .01683 |
| #2 | 1.0626 | .09952 | .01054 | .01413 | .01087 | .01647 | .07390 | .01067 | .02100 | .01662 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9519.8** | **122100.** | **10201.** |
| Stddev | 24.2 | 318. | 83. |
| %RSD | .25421 | .26027 | .80928 |
| #1 | 9502.7 | 122320. | 10143. |
| #2 | 9537.0 | 121870. | 10260. |

# *ICP Data Review Checklist*

| | | |
|---|---|---|
| **TALS BATCH NUMBER:** 187482-187483, 187485-187489 | | **Earliest due date:** 8/8/13 |
| **Run Date:** 8/15/13 | **Analyst:** JKH | **Instrument:** 25 |
| **QC programs/Methods Run:** 200.7 6010B 6010C | | |

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < 1/2 RL or CRDL (CLP) or < 2.2x MDL 200.7 ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | ✓ | | | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | ✓ | | | ✓ |
| 5. Serial dilution done per prep batch (or per SDG for CLP)? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP, DOD & AFCEE only)? NCM Whether needed for DODV3, AFCEE 4.0, 6010c? | ✓ | | | ✓ |
| **B. Calibration/Instrument Run QC** | | | | |
| 1. ICV/CCV analyzed at appropriate frequency and within control limits ? (**6010B**: CLP = 90 - 110%; **200.7:** ICV = 95 - 105%, CCV 90-110%) If not in control, was the ICV or CCV reanalyzed twice to show return to control as per NELAP? | ✓ | | | ✓ |
| 2. ICB/CCB analyzed at appropriate frequency and <1/2RL or < 2X MDL ( DOD V3,AFCEE 4.0)? Was it less than the MDLV (6010C) | ✓ | | | ✓ |
| 3. High Standard (HIGH) reanalyzed before samples and recovered within QC limits? (+-5%) | ✓ | | | ✓ |
| 4. RL STD run and recovered within QC limits ? (± 50% for non-CLP, ± 20% for DoD V3 / AFCEE 4.0 / USACE) | ✓ | | | ✓ |
| 5. Was the LLICV/LLCCV analyzed at appropriate frequency for 6010C and within control (+-30 % or +-20%) | ✓ | | | ✓ |
| 6. ICSA/ICSAB run at required frequency and within SOP limits? (ICSA < 2X MDL AFCEE 4.0, DOD V3 or <RL std work or <MDLV 6010C)) | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. For 6010B, were samples with concentrations > the linear range for any parameter diluted and reanalyzed? For 200.7, were samples with concentrations within 90% of the linear range diluted and reanalyzed? | ✓ | | | ✓ |
| 2. Are all reported results bracketed by in control QC? | ✓ | | | ✓ |
| **D. Other** | | | | |
| 1. Are all nonconformances documented appropriately? | ✓ | | | ✓ |
| 2. Calculations checked for errors? | ✓ | | | ✓ |
| 3. Transcriptions checked for errors? (Example: Are dilution factors that are entered into the sequence log correct?) | ✓ | | | ✓ |
| 4. All client/project specific requirements met? | ✓ | | | ✓ |
| 5. Date/time of analysis verified as correct? | ✓ | | | ✓ |
| 6. PDF attached, verified uncorrupted? | ✓ | | | ✓ |

**Analyst:** JKH **Date:** 8/16/13

**Comments:**

**2nd Level Reviewer:** [signature] **Date:** 8/16/13

**Comments:**

Sample Name: ICIS Acquired: 8/15/2013 14:17:13 Type: Cal
Method: 6500_025(v8) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00184** | **.00041** | **.00600** | **-.00010** | **.00056** | **.01173** | **-.00081** | **-.00111** | **.00736** | **-.00081** | **-.00019** | **-.00017** | **.00345** |
| Stddev | .00003 | .00012 | .00019 | .00003 | .00023 | .00145 | .00011 | .00038 | .00063 | .00030 | .00015 | .00013 | .00019 |
| %RSD | 1.5618 | 29.014 | 3.1341 | 34.429 | 40.783 | 12.344 | 13.218 | 34.036 | 8.5486 | 36.939 | 80.172 | 75.924 | 5.4259 |
| #1 | -.00182 | .00032 | .00586 | -.00007 | .00040 | .01275 | -.00073 | -.00137 | .00781 | -.00060 | -.00008 | -.00026 | .00332 |
| #2 | -.00186 | .00049 | .00613 | -.00012 | .00072 | .01071 | -.00088 | -.00084 | .00692 | -.00102 | -.00029 | -.00008 | .00358 |

| Elem | Fe2599 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00010** | **-.00158** | **-.00310** | **-.00971** | **-.00010** | **-.00003** | **.00009** | **-.00466** | **-.02268** | **-.00069** | **-.00012** | **.00047** | **-.00028** |
| Stddev | .00032 | .00046 | .00134 | .00042 | .00002 | .00004 | .00000 | .00190 | .00037 | .00026 | .00001 | .00015 | .00005 |
| %RSD | 328.09 | 29.303 | 43.084 | 4.3214 | 20.128 | 154.74 | 1.4587 | 40.694 | 1.6482 | 37.412 | 11.031 | 31.179 | 17.240 |
| #1 | .00033 | -.00190 | -.00404 | -.00941 | -.00011 | -.00005 | .00009 | -.00332 | -.02242 | -.00087 | -.00013 | .00036 | -.00032 |
| #2 | -.00013 | -.00125 | -.00215 | -.01000 | -.00008 | .00000 | .00009 | -.00600 | -.02294 | -.00050 | -.00011 | .00057 | -.00025 |

| Elem | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00078** | **.00003** | **.00028** | **.00028** | **.00023** | **-.00293** | **-.00062** | **-.00050** | **-.00027** | **.00007** | **.00045** | **.00000** | **-.00428** |
| Stddev | .00007 | .00001 | .00039 | .00039 | .00004 | .00010 | .00003 | .00008 | .00005 | .00009 | .00005 | .00000 | .00021 |
| %RSD | 8.9827 | 52.206 | 141.23 | 141.23 | 19.111 | 3.2569 | 5.4192 | 15.631 | 16.984 | 136.95 | 11.006 | 870.68 | 4.8640 |
| #1 | .00073 | .00002 | .00055 | .00055 | .00026 | -.00286 | -.00060 | -.00056 | -.00031 | .00000 | .00042 | .00000 | -.00442 |
| #2 | .00083 | .00004 | .00000 | .00000 | .00019 | -.00300 | -.00064 | -.00045 | -.00024 | .00013 | .00049 | .00000 | -.00413 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8319.7** | **102260.** | **8201.6** |
| Stddev | 3.0 | 297. | 44.9 |
| %RSD | .03592 | .29037 | .54689 |
| #1 | 8317.6 | 102050. | 8169.8 |
| #2 | 8321.8 | 102470. | 8233.3 |

Sample Name: ICAL1 Acquired: 8/15/2013 14:19:29 Type: Cal
Method: 6500_025(v8) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.18940** | **.28855** | **.09511** | **.25631** | **4.2484** | **7.3137** | **2.1712** | **1.4126** | **.87318** | **.95624** | **.29109** | **.66522** | **4.2300** | **1.5517** |
| Stddev | .00056 | .00038 | .00030 | .00059 | .0027 | .0037 | .0064 | .0034 | .00172 | .00250 | .00028 | .00077 | .0019 | .0010 |
| %RSD | .29757 | .13151 | .31889 | .23077 | .06321 | .05054 | .29611 | .24085 | .19693 | .26158 | .09631 | .11557 | .04462 | .06603 |
| #1 | .18900 | .28881 | .09532 | .25673 | 4.2465 | 7.3111 | 2.1758 | 1.4150 | .87440 | .95801 | .29089 | .66576 | 4.2313 | 1.5524 |
| #2 | .18980 | .28828 | .09489 | .25589 | 4.2503 | 7.3163 | 2.1667 | 1.4102 | .87197 | .95447 | .29129 | .66467 | 4.2287 | 1.5510 |

| Elem | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Ti3349 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.96993** | **1.2420** | **.48919** | **1.4103** | **.68283** | **.11415** | **.48813** | **.16610** | **.09130** | **.33718** | **.33718** | **.23294** | **8.6279** | **.29219** |
| Stddev | .00122 | .0038 | .00264 | .0021 | .00189 | .00052 | .00236 | .00092 | .00082 | .00008 | .00008 | .00196 | .0024 | .00028 |
| %RSD | .12540 | .30839 | .53978 | .14677 | .27654 | .45120 | .48331 | .55201 | .89939 | .02342 | .02342 | .84120 | .02745 | .09625 |
| #1 | .96907 | 1.2393 | .49105 | 1.4117 | .68417 | .11451 | .48980 | .16675 | .09188 | .33724 | .33724 | .23432 | 8.6262 | .29199 |
| #2 | .97079 | 1.2447 | .48732 | 1.4088 | .68150 | .11378 | .48646 | .16546 | .09072 | .33713 | .33713 | .23155 | 8.6296 | .29239 |

| Elem | Tl1908 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.19065** | **.21162** | **.03319** | **.33125** |
| Stddev | .00110 | .00056 | .00012 | .00077 |
| %RSD | .57718 | .26327 | .37047 | .23346 |
| #1 | .19143 | .21202 | .03310 | .33071 |
| #2 | .18987 | .21123 | .03328 | .33180 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8252.0** | **99558.** | **8278.9** |
| Stddev | 18.7 | 86. | 29.7 |
| %RSD | .22653 | .08660 | .35836 |
| #1 | 8238.8 | 99619. | 8257.9 |
| #2 | 8265.2 | 99498. | 8299.9 |

Sample Name: ICAL2 Acquired: 8/15/2013 14:21:37 Type: Cal
Method: 6500_025(v8) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Al3092 | Bi2230 | Fe2714 | Na8183 | S_1820 | Th2837 | U_3701 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **4.0365** | **.18693** | **.65311** | **2.6114** | **.32884** | **.46630** | **.09027** |
| Stddev | .0057 | .00059 | .00392 | .0005 | .00052 | .00214 | .00033 |
| %RSD | .14198 | .31544 | .60066 | .01921 | .15870 | .45935 | .36562 |
| | | | | | | | |
| #1 | 4.0405 | .18735 | .65034 | 2.6118 | .32921 | .46782 | .09050 |
| #2 | 4.0324 | .18652 | .65589 | 2.6111 | .32847 | .46479 | .09003 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8073.9** | **97353.** | **8224.3** |
| Stddev | 4.1 | 96. | 29.5 |
| %RSD | .05043 | .09866 | .35923 |
| | | | |
| #1 | 8071.0 | 97285. | 8203.4 |
| #2 | 8076.8 | 97421. | 8245.2 |

Sample Name: S1-2200392 Acquired: 8/15/2013 14:24:00 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99012** | **1.0147** | **1.9859** | **.99359** | **.99630** | **1.0042** | **.00050** | **10.031** | **.99858** | **.99976** | **.99272** | **.99312** | **5.0245** |
| Stddev | .00273 | .0034 | .0060 | .00064 | .00379 | .0016 | .00020 | .000 | .00014 | .00025 | .00000 | .00232 | .0163 |
| %RSD | .27550 | .33298 | .30265 | .06407 | .38045 | .15905 | 39.441 | .00405 | .01417 | .02468 | .00012 | .23326 | .32430 |
| #1 | .98819 | 1.0171 | 1.9902 | .99404 | .99898 | 1.0053 | .00064 | 10.032 | .99848 | .99994 | .99273 | .99148 | 5.0360 |
| #2 | .99205 | 1.0123 | 1.9817 | .99314 | .99362 | 1.0031 | .00036 | 10.031 | .99868 | .99959 | .99272 | .99476 | 5.0129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **100.15** | **2.0024** | **39.361** | **.99366** | **.99085** | **10.231** | **10.085** | **.99371** | **1.9838** | **1.9925** | **-.01033** | **2.0049** | **1.9941** |
| Stddev | .20 | .0047 | .033 | .00227 | .00021 | .002 | .314 | .00073 | .0019 | .0039 | .00170 | .0055 | .0074 |
| %RSD | .20201 | .23353 | .08458 | .22824 | .02162 | .02366 | 3.1106 | .07385 | .09558 | .19427 | 16.429 | .27436 | .36962 |
| #1 | 100.30 | 2.0057 | 39.338 | .99206 | .99100 | 10.229 | 10.307 | .99423 | 1.9851 | 1.9953 | -.01152 | 2.0088 | 1.9994 |
| #2 | 100.01 | 1.9991 | 39.385 | .99527 | .99070 | 10.233 | 9.8630 | .99320 | 1.9824 | 1.9898 | -.00913 | 2.0010 | 1.9889 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.9919** | **21.383** | **1.9832** | **1.0049** | **-.00933** | **.99726** | **2.0045** | **-.01221** | **.99315** | **.98756** | **1.0043** |
| Stddev | .0509 | .109 | .0116 | .0028 | .00007 | .00046 | .0059 | .04058 | .00115 | .00005 | .0041 |
| %RSD | .50941 | .50941 | .58388 | .28227 | .72755 | .04587 | .29425 | 332.45 | .11602 | .00483 | .40457 |
| #1 | 10.028 | 21.460 | 1.9914 | 1.0070 | -.00928 | .99694 | 2.0087 | -.04090 | .99234 | .98752 | 1.0072 |
| #2 | 9.9559 | 21.306 | 1.9750 | 1.0029 | -.00937 | .99758 | 2.0004 | .01649 | .99397 | .98759 | 1.0015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8400.5** | **101640.** | **8423.8** |
| Stddev | 15.2 | 33. | 27.7 |
| %RSD | .18080 | .03275 | .32924 |
| #1 | 8389.7 | 101620. | 8404.2 |
| #2 | 8411.2 | 101670. | 8443.4 |

Sample Name: S2-2188478 Acquired: 8/15/2013 14:26:09 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **.00173** | **99.422** | **.00527** | **.00607** | **.00204** | **.00010** | **1.9710** | **-.00595** | **.00019** | **.00027** | **.00001** | **.00401** | **99.093** |
| Stddev | .00012 | .033 | .00099 | .00010 | .00004 | .00004 | .0106 | .00645 | .00010 | .00012 | .00009 | .00034 | .309 |
| %RSD | 7.1108 | .03364 | 18.894 | 1.6623 | 2.1162 | 35.769 | .53994 | 108.43 | 51.986 | 43.553 | 1127.2 | 8.5689 | .31186 |
| #1 | .00182 | 99.399 | .00456 | .00614 | .00207 | .00013 | 1.9634 | -.00139 | .00026 | .00035 | -.00006 | .00425 | 98.875 |
| #2 | .00164 | 99.446 | .00597 | .00600 | .00201 | .00008 | 1.9785 | -.01051 | .00012 | .00018 | .00007 | .00376 | 99.312 |
| Check ? | Chk Fail | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | .00000 | | | | | | | | | | | | |
| Range | 5.0000% | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21444** | **.00232** | **.00447** | **.00020** | **.00157** | **497.35** | **.00134** | **.00493** | **.00143** | **9.9673** | **.01168** | **-.00174** | **.01342** |
| Stddev | .09091 | .00015 | .00019 | .00005 | .00022 | .72 | .00044 | .00045 | .00164 | .0689 | .00119 | .00048 | .01835 |
| %RSD | 42.393 | 6.4894 | 4.2034 | 25.229 | 13.812 | .14411 | 32.543 | 9.1423 | 114.80 | .69117 | 10.158 | 27.578 | 136.75 |
| #1 | .15016 | .00242 | .00434 | .00017 | .00142 | 496.84 | .00103 | .00461 | .00259 | 9.9186 | .01084 | -.00140 | .02640 |
| #2 | .27872 | .00221 | .00460 | .00024 | .00172 | 497.86 | .00165 | .00525 | .00027 | 10.016 | .01252 | -.00208 | .00044 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02872** | **-.00023** | **.00098** | **9.9661** | **.00024** | **.00097** | **19.866** | **.00153** | **.00016** | **.02208** |
| Stddev | .03928 | .00056 | .00008 | .0109 | .00031 | .00006 | .072 | .00048 | .00014 | .00079 |
| %RSD | 136.75 | 242.52 | 8.0380 | .10960 | 130.03 | 6.5469 | .36018 | 31.384 | 90.156 | 3.5855 |
| #1 | .05650 | .00017 | .00093 | 9.9584 | .00002 | .00101 | 19.816 | .00187 | .00006 | .02152 |
| #2 | .00095 | -.00063 | .00104 | 9.9738 | .00046 | .00092 | 19.917 | .00119 | .00026 | .02264 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8088.0** | **97750.** | **8432.8** |
| Stddev | 6.5 | 712. | 24.7 |
| %RSD | .08038 | .72864 | .29333 |
| #1 | 8092.6 | 98254. | 8450.3 |
| #2 | 8083.4 | 97247. | 8415.3 |

Sample Name: ICVH-2200394 Acquired: 8/15/2013 14:29:40 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00018** | **38.150** | **.00375** | **.00162** | **.00323** | **-.00001** | **.52476** | **-.00266** | **.00009** | **.00065** | **.00015** | **.00131** |
| Stddev | .00080 | .266 | .00118 | .00017 | .00032 | .00011 | .00367 | .00371 | .00004 | .00006 | .00037 | .00027 |
| %RSD | 441.90 | .69703 | 31.481 | 10.372 | 9.8707 | 1783.9 | .69983 | 139.35 | 50.087 | 9.1671 | 243.51 | 20.767 |
| #1 | .00038 | 37.962 | .00458 | .00174 | .00301 | .00007 | .52216 | -.00004 | .00012 | .00061 | -.00011 | .00112 |
| #2 | -.00074 | 38.338 | .00291 | .00151 | .00346 | -.00008 | .52736 | -.00528 | .00006 | .00069 | .00041 | .00150 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **76.629** | **.03196** | **-.00033** | **.00058** | **.00009** | **-.00018** | **39.303** | **.00040** | **.00186** | **.00034** | W **3.7613** | **-.00064** |
| Stddev | .140 | .01227 | .00206 | .00163 | .00000 | .00005 | .516 | .00013 | .00022 | .00018 | .0138 | .00266 |
| %RSD | .18333 | 38.404 | 621.33 | 281.92 | 2.6470 | 29.148 | 1.3137 | 32.868 | 12.054 | 51.843 | .36700 | 418.35 |
| #1 | 76.728 | .02328 | .00113 | -.00058 | .00009 | -.00022 | 38.938 | .00049 | .00170 | .00022 | 3.7711 | -.00252 |
| #2 | 76.529 | .04064 | -.00179 | .00174 | .00009 | -.00014 | 39.668 | .00030 | .00202 | .00047 | 3.7515 | .00124 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Warn | None |
| Value | | | | | | | | | | | 4.0000 | |
| Range | | | | | | | | | | | -5.4900% | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00147** | **.00865** | **.01852** | **-.00031** | **.00026** | W **2.8078** | **.00032** | **.00106** | **4.9623** | **.00041** | **.00071** | **.01186** |
| Stddev | .00070 | .00284 | .00607 | .00025 | .00013 | .0011 | .00025 | .00030 | .0040 | .00023 | .00011 | .00324 |
| %RSD | 47.625 | 32.793 | 32.793 | 80.242 | 49.641 | .03954 | 77.634 | 28.036 | .07988 | 56.934 | 14.999 | 27.360 |
| #1 | .00196 | .01066 | .02282 | -.00048 | .00035 | 2.8086 | .00050 | .00085 | 4.9595 | .00024 | .00079 | .00956 |
| #2 | .00097 | .00665 | .01423 | -.00013 | .00017 | 2.8070 | .00015 | .00127 | 4.9651 | .00057 | .00064 | .01415 |
| Check ? | None | None | None | None | None | Chk Warn | None | None | Chk Pass | None | None | None |
| Value | | | | | | 3.0000 | | | | | | |
| Range | | | | | | -5.4900% | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8496.0** | **103070.** | **8567.0** |
| Stddev | 5.2 | 747. | 62.0 |
| %RSD | .06143 | .72487 | .72349 |
| #1 | 8499.7 | 103600. | 8610.8 |
| #2 | 8492.3 | 102540. | 8523.2 |

Sample Name: ICV-2191701 Acquired: 8/15/2013 14:33:50 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24737** | **.26079** | **.24714** | **.24610** | **.24703** | **.24188** | **.00304** | **2.0121** | **.24893** | **.25274** | **.25208** | **.25041** | **.24943** |
| Stddev | .00041 | .00104 | .00017 | .00003 | .00022 | .00006 | .00154 | .0016 | .00072 | .00013 | .00015 | .00146 | .00247 |
| %RSD | .16614 | .39708 | .07038 | .01306 | .08772 | .02500 | 50.705 | .08157 | .28906 | .05135 | .05910 | .58211 | .98971 |
| #1 | .24708 | .26006 | .24726 | .24608 | .24687 | .24192 | .00413 | 2.0110 | .24842 | .25283 | .25219 | .24938 | .24769 |
| #2 | .24766 | .26153 | .24701 | .24612 | .24718 | .24184 | .00195 | 2.0133 | .24944 | .25265 | .25198 | .25144 | .25118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.004** | **.24935** | **9.7264** | **.24995** | **.24818** | **2.0522** | **.25221** | **1.9151** | **.25380** | **-.00159** | **.24671** | **.47900** | **2.0012** |
| Stddev | .030 | .00506 | .0111 | .00053 | .00069 | .0120 | .00052 | .0006 | .00027 | .00112 | .00013 | .00221 | .0210 |
| %RSD | .15205 | 2.0309 | .11423 | .21171 | .27913 | .58538 | .20450 | .03167 | .10454 | 70.357 | .05316 | .46228 | 1.0510 |
| #1 | 19.982 | .24577 | 9.7343 | .25032 | .24867 | 2.0437 | .25257 | 1.9155 | .25398 | -.00080 | .24680 | .47743 | 1.9863 |
| #2 | 20.025 | .25293 | 9.7186 | .24957 | .24769 | 2.0607 | .25184 | 1.9146 | .25361 | -.00239 | .24661 | .48057 | 2.0161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.2826** | **.49896** | **.24877** | **-.00156** | **.24828** | **.51447** | **-.04827** | **.24611** | **.24471** | **.24636** |
| Stddev | .0450 | .00239 | .00069 | .00128 | .00024 | .00035 | .02750 | .00066 | .00054 | .00047 |
| %RSD | 1.0510 | .47964 | .27881 | 82.207 | .09624 | .06847 | 56.979 | .26821 | .22121 | .19248 |
| #1 | 4.2508 | .50066 | .24828 | -.00247 | .24845 | .51472 | -.02882 | .24565 | .24510 | .24669 |
| #2 | 4.3144 | .49727 | .24926 | -.00065 | .24811 | .51422 | -.06772 | .24658 | .24433 | .24602 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8435.5** | **103080.** | **8433.9** |
| Stddev | 6.6 | 466. | 55.5 |
| %RSD | .07771 | .45216 | .65786 |
| #1 | 8430.8 | 102750. | 8394.7 |
| #2 | 8440.1 | 103410. | 8473.2 |

Sample Name: ICVL2200397 Acquired: 8/15/2013 14:36:44 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01080** | **.10450** | **.01727** | **.09286** | **.01046** | **.00092** | **.10806** | **.20443** | **.00494** | **.01035** | **.01032** | **.01486** | **.10159** |
| Stddev | .00032 | .00084 | .00054 | .00046 | .00003 | .00008 | .00016 | .00401 | .00008 | .00014 | .00014 | .00021 | .00278 |
| %RSD | 2.9950 | .80550 | 3.1368 | .49148 | .27931 | 8.8083 | .15080 | 1.9601 | 1.5655 | 1.3767 | 1.3315 | 1.3950 | 2.7340 |
| #1 | .01057 | .10509 | .01766 | .09254 | .01044 | .00097 | .10794 | .20160 | .00499 | .01025 | .01022 | .01500 | .09963 |
| #2 | .01103 | .10390 | .01689 | .09318 | .01048 | .00086 | .10817 | .20727 | .00488 | .01045 | .01042 | .01471 | .10356 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0211** | **.00835** | **.20071** | **.01010** | **.01951** | **1.0604** | **.04099** | **2.7895** | **.00745** | **-.00295** | **.00806** | **.01584** | **.48399** |
| Stddev | .0742 | .00073 | .00065 | .00003 | .00003 | .0024 | .00012 | .0023 | .00008 | .00048 | .00071 | .00009 | .00744 |
| %RSD | 2.4546 | 8.7601 | .32256 | .34604 | .16396 | .22691 | .30305 | .08087 | 1.0406 | 16.240 | 8.7677 | .53746 | 1.5365 |
| #1 | 3.0735 | .00886 | .20117 | .01012 | .01953 | 1.0587 | .04091 | 2.7911 | .00751 | -.00261 | .00756 | .01590 | .48925 |
| #2 | 2.9686 | .00783 | .20025 | .01007 | .01949 | 1.0621 | .04108 | 2.7879 | .00740 | -.00329 | .00856 | .01578 | .47873 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0357** | **.09929** | **.01006** | **.01314** | **.00974** | **.01588** | F **.03937** | **.00946** | **.02057** | **.01643** |
| Stddev | .0159 | .00007 | .00021 | .00008 | .00008 | .00036 | .00523 | .00013 | .00022 | .00200 |
| %RSD | 1.5365 | .06952 | 2.0897 | .61877 | .79628 | 2.2410 | 13.273 | 1.3666 | 1.0866 | 12.202 |
| #1 | 1.0470 | .09934 | .00991 | .01320 | .00968 | .01613 | .03568 | .00936 | .02073 | .01784 |
| #2 | 1.0245 | .09924 | .01021 | .01308 | .00979 | .01563 | .04307 | .00955 | .02042 | .01501 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8454.9** | **104800.** | **8424.8** |
| Stddev | 12.1 | 657. | 38.1 |
| %RSD | .14260 | .62672 | .45199 |
| #1 | 8446.4 | 104330. | 8451.8 |
| #2 | 8463.4 | 105260. | 8397.9 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 14:40:25 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **50.125** | **.00421** | **.00156** | **.00107** | **.00001** | **1.0130** | **-.00890** | **.00012** | **.00030** | **-.00002** | **.00195** | **50.052** |
| Stddev | .00017 | .075 | .00214 | .00042 | .00001 | .00002 | .0009 | .00152 | .00004 | .00018 | .00001 | .00017 | .009 |
| %RSD | 22.947 | .14985 | 50.734 | 27.158 | 1.2380 | 174.82 | .08669 | 17.067 | 36.789 | 61.579 | 84.987 | 8.6564 | .01718 |
| #1 | .00085 | 50.179 | .00572 | .00126 | .00106 | .00003 | 1.0124 | -.00783 | .00015 | .00017 | -.00003 | .00183 | 50.046 |
| #2 | .00061 | 50.072 | .00270 | .00186 | .00108 | .00000 | 1.0136 | -.00998 | .00009 | .00043 | -.00001 | .00207 | 50.058 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11221** | **.00159** | **-.00381** | **.00001** | **.00003** | **250.97** | **.00073** | **.00269** | **.00008** | **4.9270** | **.00044** | **-.00381** | **-.00533** |
| Stddev | .07504 | .00261 | .00477 | .00011 | .00026 | .10 | .00022 | .00131 | .00150 | .0293 | .00110 | .00256 | .01123 |
| %RSD | 66.876 | 163.55 | 125.28 | 1824.8 | 888.76 | .03993 | 30.582 | 48.852 | 1878.3 | .59360 | 249.43 | 67.143 | 210.72 |
| #1 | .05915 | .00344 | -.00043 | .00008 | .00021 | 250.90 | .00089 | .00176 | -.00098 | 4.9477 | -.00034 | -.00200 | -.01327 |
| #2 | .16527 | -.00025 | -.00718 | -.00007 | -.00015 | 251.04 | .00057 | .00362 | .00114 | 4.9063 | .00122 | -.00561 | .00261 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01141** | **-.00069** | **.00046** | **4.9206** | **-.00012** | **.00110** | **10.102** | **.00086** | **.00018** | **.01702** |
| Stddev | .02404 | .00023 | .00008 | .0313 | .00034 | .00007 | .030 | .00087 | .00009 | .00166 |
| %RSD | 210.72 | 33.426 | 16.836 | .63550 | 270.42 | 6.6323 | .29594 | 100.72 | 48.321 | 9.7709 |
| #1 | -.02840 | -.00085 | .00051 | 4.9428 | -.00036 | .00105 | 10.123 | .00148 | .00025 | .01820 |
| #2 | .00559 | -.00053 | .00040 | 4.8985 | .00011 | .00115 | 10.081 | .00025 | .00012 | .01585 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8131.6** | **99049.** | **8282.6** |
| Stddev | .3 | 135. | 25.4 |
| %RSD | .00390 | .13659 | .30642 |
| #1 | 8131.8 | 98953. | 8264.7 |
| #2 | 8131.4 | 99145. | 8300.6 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 14:42:47 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49708** | **.50712** | **.99416** | **.50360** | **.50330** | **.49838** | **.00374** | **5.0339** | **.50245** | **.50360** | **.50210** | **.49908** | **2.5177** |
| Stddev | .00263 | .00038 | .00129 | .00067 | .00212 | .00198 | .00197 | .0141 | .00001 | .00044 | .00068 | .00110 | .0134 |
| %RSD | .52886 | .07443 | .13023 | .13325 | .42101 | .39731 | 52.638 | .27993 | .00289 | .08704 | .13452 | .22106 | .53263 |
| #1 | .49894 | .50685 | .99507 | .50312 | .50180 | .49698 | .00514 | 5.0239 | .50246 | .50329 | .50162 | .49986 | 2.5082 |
| #2 | .49522 | .50739 | .99324 | .50407 | .50480 | .49978 | .00235 | 5.0438 | .50244 | .50391 | .50258 | .49830 | 2.5272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.018** | **1.0025** | **19.658** | **.49430** | **.50175** | **5.0854** | **.50432** | **.99177** | **1.0116** | **-.00534** | **.99355** | **.99534** | **4.9896** |
| Stddev | .218 | .0037 | .099 | .00094 | .00044 | .0193 | .00074 | .00192 | .0001 | .00086 | .00125 | .00248 | .0431 |
| %RSD | .43617 | .37321 | .50150 | .19052 | .08804 | .37860 | .14597 | .19405 | .01339 | 16.076 | .12580 | .24930 | .86376 |
| #1 | 49.864 | .99981 | 19.728 | .49497 | .50207 | 5.0718 | .50484 | .99313 | 1.0117 | -.00595 | .99443 | .99710 | 4.9591 |
| #2 | 50.172 | 1.0051 | 19.588 | .49364 | .50144 | 5.0990 | .50380 | .99041 | 1.0115 | -.00474 | .99267 | .99359 | 5.0200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.678** | **1.0027** | **.49879** | **-.00255** | **.49073** | **1.0229** | **-.00459** | **.49373** | **.49367** | **.49697** |
| Stddev | .092 | .0044 | .00036 | .00122 | .00053 | .0013 | .01617 | .00036 | .00273 | .00249 |
| %RSD | .86376 | .43616 | .07311 | 47.791 | .10892 | .12981 | 352.43 | .07384 | .55264 | .50030 |
| #1 | 10.612 | .99959 | .49853 | -.00341 | .49111 | 1.0220 | .00685 | .49347 | .49560 | .49521 |
| #2 | 10.743 | 1.0058 | .49905 | -.00169 | .49035 | 1.0239 | -.01602 | .49399 | .49174 | .49873 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8325.1** | **102200.** | **8398.6** |
| Stddev | 6.3 | 219. | 3.2 |
| %RSD | .07532 | .21424 | .03767 |
| #1 | 8320.7 | 102040. | 8396.4 |
| #2 | 8329.5 | 102350. | 8400.9 |

Sample Name: X  Acquired: 8/15/2013 14:44:55  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00084** | **.00012** | **.00153** | **.00139** | **.00056** | **.00012** | **.00336** | **-.00150** | **.00002** | **-.00006** | **-.00003** | **-.00029** | **.00270** |
| Stddev | .00016 | .00005 | .00254 | .00011 | .00016 | .00003 | .00000 | .00051 | .00022 | .00032 | .00021 | .00044 | .00239 |
| %RSD | 19.285 | 37.716 | 165.98 | 7.8190 | 28.189 | 27.612 | .01039 | 34.150 | 1328.2 | 514.50 | 672.55 | 153.87 | 88.407 |
| #1 | .00095 | .00016 | .00332 | .00131 | .00067 | .00014 | .00336 | -.00114 | .00018 | .00016 | .00012 | -.00060 | .00101 |
| #2 | .00072 | .00009 | -.00027 | .00146 | .00045 | .00010 | .00336 | -.00187 | -.00014 | -.00029 | -.00018 | .00003 | .00440 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06319** | **-.00251** | **.00159** | **.00008** | **.00058** | **.05537** | **.00026** | **.00178** | **-.00142** | **-.00324** | F **.00700** | **.00377** | **.01129** |
| Stddev | .01949 | .00080 | .00110 | .00004 | .00015 | .00679 | .00057 | .00160 | .00144 | .00038 | .00049 | .00091 | .00459 |
| %RSD | 30.848 | 31.787 | 69.168 | 55.489 | 26.431 | 12.257 | 218.96 | 89.430 | 101.17 | 11.780 | 7.0036 | 24.140 | 40.646 |
| #1 | .07698 | -.00195 | .00237 | .00005 | .00047 | .05057 | -.00014 | .00291 | -.00243 | -.00297 | .00665 | .00313 | .00804 |
| #2 | .04941 | -.00307 | .00081 | .00011 | .00069 | .06017 | .00066 | .00066 | -.00040 | -.00351 | .00735 | .00442 | .01453 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | .00628 | | |
| Low Limit | | | | | | | | | | | -.00628 | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02416** | **-.00065** | **.00007** | **-.00017** | **.00021** | **.00113** | **.00796** | **-.00021** | **.00186** | **.00075** |
| Stddev | .00982 | .00039 | .00010 | .00075 | .00002 | .00063 | .01888 | .00040 | .00047 | .00090 |
| %RSD | 40.646 | 59.722 | 129.46 | 442.12 | 7.6438 | 56.041 | 237.34 | 184.51 | 25.524 | 120.12 |
| #1 | .01722 | -.00092 | .00001 | .00036 | .00023 | .00068 | .02131 | -.00050 | .00219 | .00011 |
| #2 | .03110 | -.00037 | .00014 | -.00070 | .00020 | .00158 | -.00540 | .00007 | .00152 | .00138 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8312.7** | **102330.** | **8191.5** |
| Stddev | 83.3 | 779. | 34.7 |
| %RSD | 1.0020 | .76119 | .42351 |
| #1 | 8253.8 | 101780. | 8216.0 |
| #2 | 8371.6 | 102880. | 8167.0 |

Sample Name: ICB  Acquired: 8/15/2013 14:47:49  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00019** | **-.00204** | **.00054** | **.00003** | **-.00001** | **.00225** | **-.00467** | **-.00013** | **-.00011** | **-.00001** | **-.00020** |
| Stddev | .00085 | .00006 | .00276 | .00006 | .00030 | .00007 | .00155 | .00215 | .00002 | .00026 | .00010 | .00051 |
| %RSD | 485.45 | 29.909 | 135.78 | 11.058 | 991.78 | 1045.6 | 69.112 | 46.168 | 18.675 | 226.14 | 1112.7 | 250.68 |
| #1 | -.00043 | .00024 | -.00399 | .00059 | -.00018 | .00004 | .00115 | -.00619 | -.00011 | .00007 | -.00008 | .00016 |
| #2 | .00078 | .00015 | -.00008 | .00050 | .00024 | -.00006 | .00335 | -.00314 | -.00014 | -.00030 | .00006 | -.00057 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.01280** | **-.00052** | **.00035** | **.00003** | **.00013** | **.02782** | **.00009** | **.00054** | **-.00087** | **-.00470** | **-.00314** |
| Stddev | .00220 | .05398 | .00025 | .00061 | .00000 | .00017 | .01077 | .00001 | .00004 | .00141 | .00110 | .00138 |
| %RSD | 870.91 | 421.72 | 48.241 | 176.27 | 3.3779 | 135.09 | 38.703 | 15.280 | 6.8144 | 162.29 | 23.350 | 44.004 |
| #1 | .00181 | .05097 | -.00070 | -.00009 | .00003 | .00001 | .03543 | .00010 | .00057 | .00013 | -.00392 | -.00216 |
| #2 | -.00130 | -.02537 | -.00035 | .00078 | .00003 | .00025 | .02020 | .00008 | .00052 | -.00186 | -.00548 | -.00411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.02007** | **.04295** | **-.00142** | **-.00010** | **.00002** | **.00001** | **.00061** | **-.00647** | **.00039** | **.00038** | W **.00260** |
| Stddev | .00218 | .01874 | .04010 | .00009 | .00009 | .00003 | .00022 | .00045 | .02707 | .00016 | .00003 | .00151 |
| %RSD | 564.27 | 93.364 | 93.364 | 6.2719 | 89.727 | 160.77 | 3444.6 | 72.892 | 418.27 | 42.040 | 8.8921 | 58.324 |
| #1 | .00193 | .03332 | .07130 | -.00148 | -.00004 | .00004 | -.00015 | .00093 | .01267 | .00027 | .00036 | .00367 |
| #2 | -.00116 | .00682 | .01460 | -.00136 | -.00017 | .00000 | .00016 | .00030 | -.02561 | .00050 | .00041 | .00153 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8436.7** | **105990.** | **8499.0** |
| Stddev | 4.9 | 828. | 95.1 |
| %RSD | .05752 | .78161 | 1.1191 |
| #1 | 8433.3 | 105400. | 8566.3 |
| #2 | 8440.1 | 106570. | 8431.8 |

Sample Name: CRI-2200396 Acquired: 8/15/2013 14:51:00 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01065** | **.10497** | **.01205** | **.09554** | **.00553** | **.00102** | **.11280** | **.20846** | **.00512** | **.00515** | **.01032** | **.00988** |
| Stddev | .00084 | .00001 | .00120 | .00014 | .00023 | .00006 | .00066 | .00029 | .00010 | .00030 | .00004 | .00040 |
| %RSD | 7.9115 | .00511 | 9.9376 | .14469 | 4.2223 | 6.0938 | .58163 | .14075 | 1.8837 | 5.8344 | .41384 | 4.0359 |
| #1 | .01006 | .10496 | .01120 | .09544 | .00570 | .00106 | .11326 | .20867 | .00505 | .00537 | .01035 | .01016 |
| #2 | .01125 | .10497 | .01290 | .09563 | .00537 | .00097 | .11233 | .20825 | .00519 | .00494 | .01029 | .00960 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03612** | **1.0407** | W **.00780** | **.19644** | **.00314** | **.01044** | **1.0676** | **.01045** | **.95768** | W **.00234** | **.08787** | W **.00642** |
| Stddev | .00112 | .0569 | .00189 | .00210 | .00002 | .00007 | .0073 | .00015 | .00424 | .00058 | .00115 | .00314 |
| %RSD | 3.1067 | 5.4688 | 24.192 | 1.0675 | .68615 | .68178 | .68244 | 1.4426 | .44246 | 24.835 | 1.3134 | 48.945 |
| #1 | .03691 | 1.0809 | .00646 | .19792 | .00313 | .01039 | 1.0728 | .01055 | .96067 | .00193 | .08705 | .00420 |
| #2 | .03533 | 1.0005 | .00913 | .19496 | .00316 | .01049 | 1.0625 | .01034 | .95468 | .00275 | .08868 | .00864 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Warn |
| Value | | | .01000 | | | | | | | .00300 | | .01000 |
| Range | | | -20.490% | | | | | | | -20.490% | | -20.490% |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00993** | **.52675** | **1.1272** | **.02032** | **.00505** | **.00844** | **.01014** | **.01036** | W **.04354** | **.01006** | **.01088** | **.01050** |
| Stddev | .00184 | .00413 | .0088 | .00033 | .00012 | .00137 | .00028 | .00125 | .04449 | .00018 | .00019 | .00036 |
| %RSD | 18.498 | .78395 | .78395 | 1.6361 | 2.4469 | 16.177 | 2.7637 | 12.107 | 102.18 | 1.7979 | 1.7309 | 3.4640 |
| #1 | .00863 | .52967 | 1.1335 | .02055 | .00496 | .00748 | .01034 | .01125 | .07500 | .01019 | .01075 | .01075 |
| #2 | .01123 | .52383 | 1.1210 | .02008 | .00513 | .00941 | .00994 | .00948 | .01208 | .00993 | .01102 | .01024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | .06000 | | | |
| Range | | | | | | | | | -20.490% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8403.1** | **104520.** | **8408.5** |
| Stddev | 8.7 | 643. | 15.3 |
| %RSD | .10315 | .61493 | .18174 |
| #1 | 8409.2 | 104970. | 8419.4 |
| #2 | 8397.0 | 104060. | 8397.7 |

Sample Name: CRI-2202221 Acquired: 8/15/2013 15:01:28 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.06158** | **-.00053** | **-.00035** | **.00036** | **.00000** | **.00544** | **-.00308** | **-.00013** | **-.00010** |
| Stddev | .00085 | .00180 | .00091 | .00018 | .00027 | .0001 | .00059 | .00294 | .00027 | .00016 |
| %RSD | 156.67 | 2.9212 | 172.70 | 50.844 | 75.824 | 6441.1 | 10.864 | 95.540 | 201.42 | 160.42 |
| #1 | .00114 | .06285 | -.00117 | -.00048 | .00055 | .00003 | .00586 | -.00100 | -.00032 | .00001 |
| #2 | -.00006 | .06031 | .00012 | -.00023 | .00017 | -.00004 | .00502 | -.00516 | .00006 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **-.00005** | **.02631** | **-.01260** | **.00049** | **.00439** | **.00032** | **-.00021** | **.02656** | **.00032** |
| Stddev | .00001 | .00052 | .00437 | .04112 | .00490 | .00228 | .00003 | .00026 | .00794 | .00001 |
| %RSD | 57.685 | 1030.3 | 16.627 | 326.23 | 1000.8 | 51.890 | 9.3652 | 124.65 | 29.881 | 2.4417 |
| #1 | .00002 | -.00042 | .02321 | -.04168 | -.00297 | .00600 | .00030 | -.00039 | .02095 | .00032 |
| #2 | .00001 | .00032 | .02940 | .01647 | .00395 | .00278 | .00035 | -.00002 | .03217 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00856** | **-.00589** | **.01439** | **-.00247** | **.00745** | **.01594** | **-.00121** | **-.00002** | **.00116** |
| Stddev | .00057 | .00002 | .00032 | .00301 | .00060 | .00471 | .01007 | .00037 | .00012 | .00095 |
| %RSD | 276.97 | .26199 | 5.3713 | 20.890 | 24.296 | 63.192 | 63.192 | 30.234 | 607.65 | 81.529 |
| #1 | .00061 | .00854 | -.00567 | .01226 | -.00290 | .00412 | .00882 | -.00147 | .00006 | .00184 |
| #2 | -.00020 | .00857 | -.00611 | .01652 | -.00205 | .01078 | .02306 | -.00095 | -.00010 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00165** | **-.02255** | **-.00015** | **.00079** | **.00199** |
| Stddev | .00028 | .00007 | .01615 | .00024 | .00041 | .00045 |
| %RSD | 103.70 | 4.4914 | 71.631 | 161.04 | 51.336 | 22.541 |
| #1 | .00047 | .00160 | -.03397 | .00002 | .00108 | .00167 |
| #2 | .00007 | .00171 | -.01113 | -.00032 | .00051 | .00231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8413.9** | **104410.** | **8354.3** |
| Stddev | 36.6 | 246. | 65.7 |
| %RSD | .43481 | .23598 | .78675 |
| #1 | 8388.1 | 104580. | 8307.8 |
| #2 | 8439.8 | 104240. | 8400.8 |

Sample Name: ICSA-2168420 Acquired: 8/15/2013 15:06:42 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | R **505.56** | **.00053** | **-.00083** | **.00040** | **-.00001** | **.00611** | **474.00** | W **.00153** | **-.00059** | **.00155** | W **.00401** |
| Stddev | .00055 | 2.83 | .00174 | .00026 | .00062 | .00009 | .00005 | 2.14 | .00014 | .00001 | .00008 | .00002 |
| %RSD | 152.59 | .56026 | 331.00 | 31.261 | 155.78 | 732.58 | .84257 | .45080 | 8.8607 | 1.5877 | 5.3761 | .57382 |
| #1 | .00003 | 503.56 | -.00071 | -.00101 | -.00004 | -.00007 | .00607 | 475.51 | .00163 | -.00060 | .00149 | .00402 |
| #2 | -.00074 | 507.56 | .00176 | -.00064 | .00084 | .00005 | .00614 | 472.49 | .00143 | -.00058 | .00161 | .00399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | .00080 | | | .00272 |
| Low Limit | | | | | | | | | -.00080 | | | -.00272 |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **187.83** | **-.11196** | **.00484** | **497.55** | W **.00104** | **-.00031** | **.06278** | **-.00228** | **.00009** | **.00236** | **-.08720** | **.00279** |
| Stddev | .81 | .07976 | .00117 | 5.29 | .00009 | .00045 | .01446 | .00012 | .00055 | .00119 | .00603 | .00296 |
| %RSD | .43361 | 71.240 | 24.220 | 1.0641 | 8.5716 | 142.92 | 23.029 | 5.4537 | 642.98 | 50.415 | 6.9201 | 106.11 |
| #1 | 187.26 | -.05556 | .00401 | 493.81 | .00097 | -.00063 | .05256 | -.00237 | .00047 | .00152 | -.08293 | .00070 |
| #2 | 188.41 | -.16836 | .00567 | 501.29 | .00110 | .00000 | .07301 | -.00220 | -.00030 | .00320 | -.09147 | .00488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00050 | | | | | | | |
| Low Limit | | | | | -.00050 | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00164** | **-.00358** | **-.00767** | **.00111** | W **.00174** | **-.00045** | **.00052** | **-.00116** | **-.07654** | **.00073** | **.00308** | **.00247** |
| Stddev | .00192 | .01873 | .04008 | .00050 | .00005 | .00080 | .00003 | .00162 | .00032 | .00016 | .00032 | .00107 |
| %RSD | 117.33 | 522.60 | 522.60 | 45.445 | 2.6027 | 177.70 | 5.5443 | 139.34 | .41816 | 22.117 | 10.265 | 43.047 |
| #1 | -.00299 | .00966 | .02067 | .00146 | .00177 | -.00102 | .00054 | -.00231 | -.07631 | .00061 | .00286 | .00172 |
| #2 | -.00028 | -.01683 | -.03601 | .00075 | .00170 | .00012 | .00050 | -.00002 | -.07676 | .00084 | .00331 | .00323 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | .00050 | | | | | | | |
| Low Limit | | | | | -.00050 | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7661.3** | **89152.** | **8210.2** |
| Stddev | 13.9 | 1097. | 18.2 |
| %RSD | .18162 | 1.2306 | .22209 |
| #1 | 7651.5 | 89928. | 8197.3 |
| #2 | 7671.1 | 88376. | 8223.1 |

Sample Name: ICSAB-2180558 Acquired: 8/15/2013 15:09:39 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0819** | **499.28** | **1.9896** | **1.8474** | **.50486** | **.48760** | **1.0230** | **470.32** | **1.0252** | **.46726** | **.49010** | **.53870** | **183.95** |
| Stddev | .0074 | 3.67 | .0020 | .0004 | .00345 | .00248 | .0004 | .65 | .0005 | .00018 | .00018 | .00220 | .57 |
| %RSD | .68434 | .73594 | .10246 | .02400 | .68376 | .50800 | .04155 | .13849 | .04856 | .03897 | .03623 | .40764 | .30829 |
| #1 | 1.0767 | 496.69 | 1.9911 | 1.8478 | .50242 | .48585 | 1.0233 | 470.78 | 1.0256 | .46713 | .49023 | .53715 | 183.55 |
| #2 | 1.0871 | 501.88 | 1.9882 | 1.8471 | .50730 | .48935 | 1.0227 | 469.86 | 1.0249 | .46739 | .48998 | .54025 | 184.36 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.450** | **1.0159** | **481.19** | **.49622** | **.95860** | **50.913** | **.92511** | **1.9232** | **.92756** | **.90752** | **.97567** | **4.7388** | **9.9851** |
| Stddev | .433 | .0015 | 1.62 | .00161 | .00180 | .366 | .00009 | .0088 | .00092 | .00630 | .00087 | .0012 | .0549 |
| %RSD | .84203 | .15140 | .33651 | .32525 | .18768 | .71834 | .00969 | .45526 | .09907 | .69381 | .08955 | .02505 | .54985 |
| #1 | 51.143 | 1.0170 | 482.33 | .49508 | .95987 | 50.654 | .92517 | 1.9294 | .92821 | .91197 | .97505 | 4.7396 | 9.9463 |
| #2 | 51.756 | 1.0148 | 480.04 | .49736 | .95733 | 51.172 | .92504 | 1.9170 | .92692 | .90307 | .97628 | 4.7379 | 10.024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.368** | **9.1443** | **.99467** | **1.9576** | **1.0003** | **8.3737** | **-.03356** | **.51116** | **.95764** | **.99659** |
| Stddev | .117 | .0138 | .00539 | .0113 | .0019 | .0051 | .00771 | .00070 | .00235 | .01073 |
| %RSD | .54985 | .15071 | .54197 | .57933 | .18882 | .06128 | 22.984 | .13689 | .24497 | 1.0763 |
| #1 | 21.285 | 9.1540 | .99086 | 1.9496 | .99900 | 8.3774 | -.03901 | .51067 | .95598 | .98901 |
| #2 | 21.451 | 9.1345 | .99848 | 1.9656 | 1.0017 | 8.3701 | -.02810 | .51166 | .95929 | 1.0042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7672.1** | **90707.** | **8339.9** |
| Stddev | 9.8 | 121. | 65.9 |
| %RSD | .12727 | .13309 | .79052 |
| #1 | 7679.0 | 90622. | 8386.5 |
| #2 | 7665.2 | 90793. | 8293.3 |

Sample Name: LRA-2131692 Acquired: 8/15/2013 15:11:57 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0924** | **.00212** | **10.033** | **9.9082** | **12.277** | **-.00587** | **-.02008** | **.01616** | **2.1228** | **5.1047** | **10.243** | **10.432** | R **502.60** |
| Stddev | .0048 | .00728 | .022 | .0097 | .086 | .00005 | .00045 | .00382 | .0014 | .0019 | .013 | .023 | 1.80 |
| %RSD | .22936 | 343.51 | .22320 | .09810 | .70420 | .86965 | 2.2605 | 23.663 | .06452 | .03670 | .12307 | .21646 | .35785 |
| #1 | 2.0890 | -.00303 | 10.049 | 9.9151 | 12.338 | -.00583 | -.02040 | .01346 | 2.1238 | 5.1061 | 10.252 | 10.416 | 503.87 |
| #2 | 2.0958 | .00726 | 10.017 | 9.9013 | 12.216 | -.00590 | -.01976 | .01887 | 2.1218 | 5.1034 | 10.234 | 10.448 | 501.32 |
| Check ? | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.20105** | **-.00228** | **-.04990** | **9.8243** | **10.083** | **.03056** | **10.278** | **.02324** | **10.543** | **-.09680** | **-.22052** | **5.0818** | **49.244** |
| Stddev | .06222 | .00130 | .00308 | .1059 | .014 | .00041 | .005 | .00002 | .001 | .00344 | .00120 | .0163 | .004 |
| %RSD | 30.946 | 56.757 | 6.1654 | 1.0782 | .13670 | 1.3286 | .04883 | .09758 | .00849 | 3.5515 | .54191 | .32020 | .00842 |
| #1 | -.15705 | -.00320 | -.04773 | 9.7494 | 10.092 | .03028 | 10.282 | .02326 | 10.542 | -.09437 | -.21968 | 5.0933 | 49.241 |
| #2 | -.24504 | -.00137 | -.05208 | 9.8992 | 10.073 | .03085 | 10.275 | .02322 | 10.543 | -.09923 | -.22137 | 5.0703 | 49.247 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | Chk Pass | None | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **105.38** | **.00503** | **10.183** | **-.01078** | **9.9710** | **10.187** | **.02466** | **10.028** | **9.6749** | **.00102** |
| Stddev | .01 | .00122 | .236 | .00154 | .0298 | .003 | .03352 | .025 | .0141 | .00028 |
| %RSD | .00842 | 24.242 | 2.3206 | 14.243 | .29851 | .02880 | 135.92 | .24884 | .14556 | 27.564 |
| #1 | 105.38 | .00417 | 10.350 | -.01187 | 9.9499 | 10.185 | .04837 | 10.010 | 9.6650 | .00082 |
| #2 | 105.39 | .00589 | 10.016 | -.00970 | 9.9920 | 10.189 | .00096 | 10.045 | 9.6849 | .00122 |
| Check ? | None | None | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8263.7** | **102780.** | **8521.6** |
| Stddev | 2.4 | 221. | 33.0 |
| %RSD | .02894 | .21474 | .38691 |
| #1 | 8262.0 | 102930. | 8545.0 |
| #2 | 8265.4 | 102620. | 8498.3 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 15:15:03 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **50.782** | **.00435** | **.02311** | **.00142** | **-.00005** | **1.0166** | **-.00848** | **.00021** | **.00017** | **.00012** | **.00343** | **50.556** |
| Stddev | .00017 | .304 | .00080 | .00268 | .00007 | .00001 | .0019 | .00036 | .00018 | .00003 | .00011 | .00066 | .044 |
| %RSD | 43.171 | .59933 | 18.448 | 11.583 | 5.1942 | 18.669 | .18694 | 4.2576 | 82.148 | 19.497 | 92.886 | 19.349 | .08622 |
| #1 | .00027 | 50.567 | .00492 | .02500 | .00137 | -.00006 | 1.0152 | -.00823 | .00034 | .00014 | .00020 | .00296 | 50.525 |
| #2 | .00050 | 50.997 | .00378 | .02122 | .00147 | -.00005 | 1.0179 | -.00874 | .00009 | .00019 | .00004 | .00389 | 50.587 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03478** | **.00006** | **-.00024** | **.00012** | **.00378** | **253.07** | **.00073** | **.00322** | **.00058** | **4.9668** | **-.00279** | **-.00132** | **.02104** |
| Stddev | .08748 | .00255 | .00266 | .00005 | .00035 | .61 | .00039 | .00224 | .00006 | .0176 | .00253 | .00639 | .00853 |
| %RSD | 251.50 | 4467.9 | 1112.7 | 44.651 | 9.2339 | .23947 | 53.700 | 69.735 | 10.847 | .35429 | 90.683 | 482.15 | 40.559 |
| #1 | .09665 | .00186 | -.00212 | .00008 | .00354 | 252.64 | .00101 | .00480 | .00054 | 4.9544 | -.00458 | -.00584 | .02707 |
| #2 | -.02708 | -.00175 | .00164 | .00015 | .00403 | 253.50 | .00045 | .00163 | .00062 | 4.9793 | -.00100 | .00319 | .01500 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04502** | **-.00064** | **.00056** | **4.8768** | **.00055** | **.00132** | **10.179** | **.00099** | **.00019** | **.02611** |
| Stddev | .01826 | .00026 | .00010 | .0086 | .00007 | .00216 | .031 | .00013 | .00029 | .00250 |
| %RSD | 40.559 | 40.691 | 18.832 | .17742 | 12.883 | 164.17 | .30362 | 13.222 | 149.05 | 9.5758 |
| #1 | .05793 | -.00045 | .00063 | 4.8829 | .00060 | .00284 | 10.201 | .00108 | .00040 | .02434 |
| #2 | .03211 | -.00082 | .00048 | 4.8707 | .00050 | -.00021 | 10.157 | .00089 | -.00001 | .02787 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8294.4** | **100180.** | **8370.2** |
| Stddev | 9.4 | 62. | .4 |
| %RSD | .11306 | .06235 | .00421 |
| #1 | 8287.7 | 100220. | 8370.5 |
| #2 | 8301.0 | 100130. | 8370.0 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 15:17:24 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49460** | **.50973** | **.99921** | **.51582** | **.49933** | **.50009** | **.00477** | **5.0293** | **.50598** | **.50483** | **.49885** | **.50090** | **2.5356** |
| Stddev | .00156 | .00097 | .00067 | .00087 | .00168 | .00178 | .00030 | .0094 | .00093 | .00008 | .00092 | .00070 | .0046 |
| %RSD | .31613 | .19063 | .06666 | .16904 | .33695 | .35638 | 6.2958 | .18614 | .18318 | .01499 | .18507 | .14051 | .18061 |
| #1 | .49570 | .51042 | .99968 | .51520 | .49814 | .49883 | .00498 | 5.0227 | .50532 | .50489 | .49820 | .50040 | 2.5324 |
| #2 | .49349 | .50904 | .99874 | .51643 | .50052 | .50135 | .00455 | 5.0359 | .50663 | .50478 | .49950 | .50139 | 2.5388 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.032** | **.98925** | **19.422** | **.49317** | **.49931** | **5.0843** | **.50389** | **.99420** | **1.0135** | **-.01100** | **1.0089** | **1.0040** | **4.9649** |
| Stddev | .191 | .00261 | .040 | .00035 | .00103 | .0083 | .00033 | .00062 | .0039 | .00075 | .0015 | .0043 | .0369 |
| %RSD | .38161 | .26350 | .20824 | .07183 | .20566 | .16428 | .06572 | .06232 | .38704 | 6.8157 | .14672 | .43047 | .74267 |
| #1 | 49.897 | .99109 | 19.450 | .49342 | .49859 | 5.0784 | .50366 | .99463 | 1.0107 | -.01047 | 1.0100 | 1.0009 | 4.9909 |
| #2 | 50.167 | .98741 | 19.393 | .49292 | .50004 | 5.0902 | .50413 | .99376 | 1.0163 | -.01153 | 1.0079 | 1.0070 | 4.9388 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.625** | **1.0019** | **.49936** | **-.00504** | **.49301** | **1.0282** | **.03059** | **.49501** | **.48796** | **.50199** |
| Stddev | .079 | .0023 | .00184 | .00079 | .00025 | .0032 | .01348 | .00111 | .00066 | .00386 |
| %RSD | .74267 | .22900 | .36909 | 15.677 | .05118 | .31312 | 44.078 | .22412 | .13578 | .76978 |
| #1 | 10.681 | 1.0003 | .49806 | -.00559 | .49283 | 1.0259 | .02105 | .49579 | .48749 | .49926 |
| #2 | 10.569 | 1.0035 | .50066 | -.00448 | .49319 | 1.0305 | .04012 | .49423 | .48843 | .50472 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8631.2** | **106590.** | **8765.4** |
| Stddev | 35.9 | 113. | 26.9 |
| %RSD | .41542 | .10637 | .30637 |
| #1 | 8656.6 | 106510. | 8746.4 |
| #2 | 8605.9 | 106670. | 8784.4 |

Sample Name: CCB  Acquired: 8/15/2013 15:19:31  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.00042** | **.00191** | F **.00843** | **.00006** | **-.00003** | **.00420** | **.00061** | **.00007** | **-.00001** | **.00000** |
| Stddev | .00007 | .00010 | .00042 | .00074 | .00005 | .00003 | .00045 | .00030 | .00004 | .00003 | .00010 |
| %RSD | 18.201 | 23.065 | 21.815 | 8.8014 | 87.232 | 102.81 | 10.700 | 49.314 | 60.643 | 354.83 | 4244.6 |
| #1 | .00041 | .00035 | .00161 | .00896 | .00002 | -.00005 | .00452 | .00082 | .00004 | .00001 | -.00007 |
| #2 | .00031 | .00049 | .00220 | .00791 | .00009 | -.00001 | .00388 | .00040 | .00009 | -.00003 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **-.00103** | **.02500** | W **-.00313** | **.00146** | **.00011** | **.00102** | **.01892** | **.00025** | **.00110** | **-.00206** |
| Stddev | .00009 | .00127 | .04746 | .00197 | .00022 | .00009 | .00048 | .00543 | .00018 | .00023 | .00030 |
| %RSD | 45.546 | 123.78 | 189.85 | 62.893 | 15.369 | 78.976 | 47.039 | 28.724 | 72.857 | 21.179 | 14.747 |
| #1 | -.00025 | -.00192 | -.00856 | -.00174 | .00130 | .00005 | .00068 | .02276 | .00038 | .00126 | -.00185 |
| #2 | -.00013 | -.00013 | .05856 | -.00452 | .00162 | .00017 | .00137 | .01508 | .00012 | .00093 | -.00228 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00528** | F **.00676** | **.00020** | **.01750** | **.03745** | **-.00117** | **.00002** | **.00114** | **.00029** | **.00000** | **.00628** |
| Stddev | .00096 | .00120 | .00140 | .00901 | .01927 | .00002 | .00003 | .00195 | .00015 | .00140 | .03801 |
| %RSD | 18.223 | 17.801 | 710.15 | 51.457 | 51.457 | 2.0983 | 107.18 | 171.67 | 51.152 | 41440. | 605.32 |
| #1 | -.00596 | .00591 | .00118 | .02387 | .05108 | -.00115 | .00004 | -.00024 | .00019 | -.00099 | -.02060 |
| #2 | -.00460 | .00761 | -.00079 | .01113 | .02383 | -.00119 | .00001 | .00252 | .00040 | .00099 | .03315 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00628 | | | | | | | | | |
| Low Limit | | -.00628 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00002** | **.00105** | **.00176** |
| Stddev | .00034 | .00026 | .00040 |
| %RSD | 1522.1 | 24.740 | 22.861 |
| #1 | .00022 | .00087 | .00205 |
| #2 | -.00027 | .00124 | .00148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8549.4** | **106240.** | **8566.4** |
| Stddev | 4.2 | 137. | 12.3 |
| %RSD | .04948 | .12894 | .14352 |
| #1 | 8546.4 | 106340. | 8557.7 |
| #2 | 8552.4 | 106150. | 8575.1 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 15:21:47 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01039** | **.10470** | **.01423** | **.09641** | **.00991** | **.00099** | **.10926** | **.20118** | **.00509** | **.01023** | **.01006** | **.01450** | **.10028** |
| Stddev | .00098 | .00009 | .00161 | .00084 | .00058 | .00005 | .00121 | .00233 | .00004 | .00010 | .00017 | .00064 | .00324 |
| %RSD | 9.4038 | .08449 | 11.347 | .87017 | 5.8102 | 5.2249 | 1.1117 | 1.1569 | .77395 | 1.0065 | 1.6943 | 4.3818 | 3.2318 |
| #1 | .00969 | .10476 | .01537 | .09701 | .00951 | .00096 | .10840 | .19953 | .00511 | .01016 | .00994 | .01495 | .09799 |
| #2 | .01108 | .10464 | .01309 | .09582 | .01032 | .00103 | .11012 | .20282 | .00506 | .01030 | .01018 | .01406 | .10257 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0271** | **.00751** | **.19762** | **.01008** | **.01979** | **1.0603** | **.04075** | **2.7752** | **.00836** | **-.00518** | **.00825** | **.01629** | **.49228** |
| Stddev | .0118 | .00291 | .00012 | .00018 | .00012 | .0062 | .00043 | .0127 | .00094 | .00341 | .00077 | .00402 | .00059 |
| %RSD | .39147 | 38.814 | .05883 | 1.8347 | .61982 | .58675 | 1.0625 | .45896 | 11.239 | 65.798 | 9.2846 | 24.653 | .12009 |
| #1 | 3.0354 | .00957 | .19754 | .01021 | .01988 | 1.0647 | .04044 | 2.7842 | .00770 | -.00759 | .00879 | .01345 | .49186 |
| #2 | 3.0187 | .00545 | .19770 | .00995 | .01970 | 1.0559 | .04106 | 2.7662 | .00903 | -.00277 | .00771 | .01913 | .49270 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0535** | **.09908** | **.01003** | **.01628** | **.00968** | **.01559** | **.05211** | **.00945** | **.02018** | **.01707** |
| Stddev | .0013 | .00030 | .00019 | .00065 | .00031 | .00178 | .03297 | .00010 | .00057 | .00089 |
| %RSD | .12009 | .30123 | 1.8842 | 3.9745 | 3.2187 | 11.386 | 63.271 | 1.0354 | 2.8294 | 5.2333 |
| #1 | 1.0526 | .09887 | .00989 | .01674 | .00990 | .01685 | .07542 | .00952 | .02058 | .01644 |
| #2 | 1.0544 | .09929 | .01016 | .01582 | .00946 | .01434 | .02880 | .00938 | .01977 | .01770 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8616.4** | **106630.** | **8668.6** |
| Stddev | 10.5 | 626. | 16.2 |
| %RSD | .12162 | .58683 | .18743 |
| #1 | 8609.0 | 106190. | 8680.1 |
| #2 | 8623.8 | 107070. | 8657.1 |

Sample Name: 280-45382-a-10-a@5 Acquired: 8/15/2013 15:24:05 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | W **2.5325** | W **2.7360** | **.03831** | **.37567** | **.12675** | **.00010** | **.01186** | **60.115** | **.00619** |
| Stddev | .00017 | .0001 | .0038 | .00321 | .00110 | .00067 | .00001 | .00213 | .365 | .00014 |
| %RSD | 24.990 | .00362 | .13988 | 8.3886 | .29287 | .52534 | 14.181 | 17.987 | .60647 | 2.2135 |
| #1 | .00080 | 2.5324 | 2.7387 | .04059 | .37644 | .12628 | .00009 | .01336 | 59.857 | .00609 |
| #2 | .00056 | 2.5326 | 2.7333 | .03604 | .37489 | .12722 | .00011 | .01035 | 60.373 | .00628 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.5000 | 500.00 | | | | | | | |
| Low Limit | | -.05000 | 3.2000 | | | | | | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00499** | **3.7372** | **.43834** | **8.8952** | **10.716** | **.02081** | **25.998** | **2.0074** | **.05882** | **358.86** |
| Stddev | .00031 | .0000 | .00072 | .0257 | .090 | .00198 | .047 | .0002 | .00024 | 2.34 |
| %RSD | 6.1670 | .00045 | .16352 | .28952 | .83766 | 9.4952 | .18051 | .01193 | .41408 | .65186 |
| #1 | .00477 | 3.7372 | .43783 | 8.8769 | 10.653 | .02221 | 26.031 | 2.0076 | .05900 | 357.20 |
| #2 | .00520 | 3.7372 | .43885 | 8.9134 | 10.780 | .01941 | 25.965 | 2.0073 | .05865 | 360.51 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07772** | **1.1700** | **.06236** | **99.391** | **.00068** | **.00497** | **6.4473** | **13.797** | W **4.9331** | **.49480** |
| Stddev | .00049 | .0044 | .00106 | .101 | .00188 | .00119 | .0582 | .125 | .0003 | .00291 |
| %RSD | .63091 | .37910 | 1.6971 | .10158 | 276.09 | 23.996 | .90271 | .90271 | .00667 | .58735 |
| #1 | .07807 | 1.1731 | .06311 | 99.320 | -.00065 | .00413 | 6.4061 | 13.709 | 4.9333 | .49275 |
| #2 | .07738 | 1.1668 | .06161 | 99.462 | .00201 | .00582 | 6.4884 | 13.885 | 4.9328 | .49686 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 2.0000 | |
| Low Limit | | | | | | | | | -.05000 | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00206** | **.04366** | **.00019** | W **-.05229** | **.01082** | **.58438** | **.00667** |
| Stddev | .00328 | .00017 | .00027 | .02554 | .00067 | .00280 | .00017 |
| %RSD | 159.66 | .39620 | 137.68 | 48.833 | 6.2188 | .47936 | 2.4894 |
| #1 | -.00027 | .04378 | .00038 | -.03423 | .01129 | .58636 | .00655 |
| #2 | .00438 | .04354 | .00001 | -.07035 | .01034 | .58240 | .00679 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 45.000 | | | |
| Low Limit | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8357.7** | **101760.** | **8871.7** |
| Stddev | 7.4 | 10. | 64.9 |
| %RSD | .08853 | .01014 | .73147 |
| #1 | 8352.5 | 101750. | 8917.6 |
| #2 | 8362.9 | 101770. | 8825.8 |

Sample Name: 280-45382-a-2-a@5 Acquired: 8/15/2013 15:26:22 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00335** | **6.6822** | **.03901** | **.26215** | **.17630** | **.00293** | W **.05050** | **67.760** | **.01067** | **.74692** |
| Stddev | .00061 | .0649 | .00434 | .00287 | .00096 | .00010 | .00154 | .252 | .00001 | .00056 |
| %RSD | 18.152 | .97181 | 11.126 | 1.0935 | .54343 | 3.5248 | 3.0545 | .37138 | .12601 | .07546 |
| #1 | .00292 | 6.6363 | .04207 | .26417 | .17563 | .00286 | .05159 | 67.582 | .01068 | .74731 |
| #2 | .00378 | 6.7281 | .03594 | .26012 | .17698 | .00301 | .04941 | 67.938 | .01067 | .74652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .05000 | | | |
| Low Limit | | | | | | | -.05000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4663** | W **16.344** | **31.476** | **52.999** | **.04983** | **11.016** | F **28.782** | **.03621** | **306.36** | **.38225** |
| Stddev | .0021 | .114 | .121 | .347 | .00120 | .004 | .102 | .00008 | 1.45 | .00259 |
| %RSD | .14477 | .69643 | .38290 | .65537 | 2.3988 | .03292 | .35428 | .21131 | .47292 | .67814 |
| #1 | 1.4678 | 16.424 | 31.391 | 52.754 | .05067 | 11.013 | 28.710 | .03626 | 305.33 | .38408 |
| #2 | 1.4648 | 16.263 | 31.561 | 53.245 | .04898 | 11.019 | 28.854 | .03616 | 307.38 | .38042 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | 20.000 | | | |
| Low Limit | | -.01000 | | | | | -.02000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.8107** | **.23915** | F **279.28** | **.01471** | **.04664** | **2.5734** | **5.5071** | F **53.504** | **.36640** | **.02534** |
| Stddev | .0166 | .00169 | .37 | .00181 | .00057 | .0021 | .0044 | .063 | .00116 | .00161 |
| %RSD | .59078 | .70845 | .13224 | 12.292 | 1.2272 | .08023 | .08023 | .11687 | .31638 | 6.3663 |
| #1 | 2.8225 | .24034 | 279.54 | .01343 | .04704 | 2.5749 | 5.5102 | 53.548 | .36559 | .02420 |
| #2 | 2.7990 | .23795 | 279.01 | .01598 | .04623 | 2.5720 | 5.5040 | 53.460 | .36722 | .02648 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | 20.000 | | |
| Low Limit | -1.0000 | | -.20000 | | | | | -.10000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42725** | **.03931** | F **-.19565** | **.05957** | W **10.244** | **.01978** |
| Stddev | .00071 | .00054 | .01517 | .00008 | .006 | .00151 |
| %RSD | .16555 | 1.3773 | 7.7559 | .13500 | .06164 | 7.6134 |
| #1 | .42775 | .03970 | -.20638 | .05963 | 10.249 | .02085 |
| #2 | .42675 | .03893 | -.18492 | .05951 | 10.240 | .01872 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 50.000 | | 10.000 | |
| Low Limit | | | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8309.0** | **101370.** | **8930.5** |
| Stddev | 10.5 | 162. | 17.3 |
| %RSD | .12650 | .16012 | .19388 |
| #1 | 8316.5 | 101490. | 8918.2 |
| #2 | 8301.6 | 101260. | 8942.7 |

Sample Name: 280-45382-a-3-a@5 Acquired: 8/15/2013 15:28:50 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .00056 | k 1.3855 | k .00404 | .16357 | k .10394 | k .00002 | k .01021 | 40.543 | k .00366 | k .00104 |
| Stddev | .00662 | .0203 | .00142 | .00098 | .00064 | .00001 | .00839 | .089 | .00010 | .00006 |
| %RSD | 1180.2 | 1.4666 | 35.218 | .59909 | .61796 | 76.120 | 82.223 | .21874 | 2.7915 | 5.4482 |
| #1 | -.00412 | 1.3712 | .00504 | .16426 | .10440 | .00003 | .00427 | 40.606 | .00359 | .00100 |
| #2 | k .00524 | k 1.3999 | k .00303 | .16287 | k .10349 | k .00001 | k .01614 | 40.481 | k .00373 | k .00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .02494 | k .01242 | k 50.031 | 12.639 | k .01964 | k 62.454 | ^ ***** | k -.00095 | RW 1961.1 | k .02450 |
| Stddev | .00043 | .00010 | .114 | .079 | .00186 | .060 | ----- | .00051 | 5.1 | .00086 |
| %RSD | 1.7173 | .84302 | .22807 | .62493 | 9.4751 | .09665 | ----- | 54.195 | .26203 | 3.5152 |
| #1 | .02525 | .01235 | 50.112 | 12.583 | .02095 | 62.496 | 49.852 | -.00131 | 1964.8 | .02389 |
| #2 | k .02464 | k .01250 | k 49.950 | 12.695 | k .01832 | k 62.411 | ^ ----- | k -.00058 | 1957.5 | k .02511 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 44.267 | k .03362 | k 48.402 | k .00227 | k .03011 | k 2.3968 | k 5.1292 | F 87.545 | .66862 | k .01828 |
| Stddev | .003 | .00077 | .205 | .00093 | .02353 | .0210 | .0449 | .168 | .00003 | .02639 |
| %RSD | .00654 | 2.2888 | .42429 | 40.963 | 78.161 | .87485 | .87485 | .19210 | .00384 | 144.37 |
| #1 | 44.265 | .03308 | 48.257 | .00162 | .01347 | 2.4117 | 5.1610 | 87.664 | .66860 | -.00038 |
| #2 | 44.269 | k .03417 | k 48.548 | k .00293 | k .04675 | k 2.3820 | k 5.0975 | 87.426 | .66864 | k .03694 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | 20.000 | | |
| Low Limit | -1.0000 | | | | | | | -.10000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k .03548 | k .02928 | kF -.36322 | k .01165 | k .27177 | k .04267 |
| Stddev | .00009 | .02905 | .02399 | .03762 | .00033 | .00003 |
| %RSD | .26322 | 99.204 | 6.6040 | 323.04 | .12188 | .06712 |
| #1 | .03541 | .00874 | -.38019 | .03825 | .27200 | .04265 |
| #2 | k .03554 | k .04982 | k -.34626 | k -.01496 | k .27154 | k .04269 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 7791.7 | 91739. | 8613.0 |
| Stddev | 26.4 | 40. | 112.5 |
| %RSD | .33857 | .04360 | 1.3063 |
| #1 | 7773.1 | 91711. | 8533.4 |
| #2 | 7810.4 | 91768. | 8692.5 |

Sample Name: 280-45382-a-2-a@50 Acquired: 8/15/2013 15:31:48 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00074** | **.67823** | **.00322** | **.02865** | **.01765** | **.00035** | **.00916** | **6.7519** | **.00107** | **.07678** |
| Stddev | .00011 | .00193 | .00046 | .00062 | .00029 | .00000 | .00394 | .0469 | .00001 | .00009 |
| %RSD | 14.829 | .28437 | 14.319 | 2.1485 | 1.6405 | 1.0326 | 42.999 | .69461 | .99090 | .11997 |
| #1 | .00067 | .67686 | .00355 | .02821 | .01744 | .00035 | .00637 | 6.7188 | .00107 | .07671 |
| #2 | .00082 | .67959 | .00290 | .02908 | .01785 | .00035 | .01194 | 6.7851 | .00108 | .07684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14844** | **1.6235** | **3.1410** | **5.2787** | **.00453** | **1.1409** | **3.2052** | **.00357** | **30.771** | **.03924** |
| Stddev | .00057 | .0058 | .0192 | .0851 | .00140 | .0011 | .0141 | .00020 | .260 | .00025 |
| %RSD | .38701 | .35523 | .61250 | 1.6116 | 30.901 | .09957 | .43834 | 5.5444 | .84458 | .64489 |
| #1 | .14804 | 1.6276 | 3.1274 | 5.2186 | .00354 | 1.1417 | 3.2152 | .00343 | 30.587 | .03906 |
| #2 | .14885 | 1.6194 | 3.1546 | 5.3389 | .00552 | 1.1401 | 3.1953 | .00371 | 30.954 | .03942 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27009** | **.02427** | **26.890** | **-.00156** | **.00631** | **.26012** | **.55667** | W **5.5455** | **.03665** | **.00371** |
| Stddev | .00336 | .00030 | .064 | .00125 | .00199 | .02205 | .04718 | .0140 | .00024 | .00255 |
| %RSD | 1.2454 | 1.2201 | .23843 | 80.112 | 31.565 | 8.4762 | 8.4762 | .25231 | .65060 | 68.647 |
| #1 | .26772 | .02447 | 26.845 | -.00068 | .00490 | .24453 | .52330 | 5.5356 | .03648 | .00191 |
| #2 | .27247 | .02406 | 26.936 | -.00244 | .00772 | .27572 | .59003 | 5.5553 | .03682 | .00552 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 2.0000 | | |
| Low Limit | | | | | | | | -.05000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04231** | **.00403** | **-.01532** | **.00647** | **1.0332** | **.00469** |
| Stddev | .00019 | .00007 | .00702 | .00044 | .0002 | .00104 |
| %RSD | .44015 | 1.7635 | 45.838 | 6.7386 | .02021 | 22.167 |
| #1 | .04218 | .00398 | -.01036 | .00616 | 1.0334 | .00542 |
| #2 | .04244 | .00408 | -.02029 | .00677 | 1.0331 | .00395 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8652.2** | **106730.** | **8912.2** |
| Stddev | 21.8 | 277. | 39.6 |
| %RSD | .25172 | .25973 | .44384 |
| #1 | 8667.6 | 106540. | 8940.1 |
| #2 | 8636.8 | 106930. | 8884.2 |

Sample Name: 280-45382-a-3-a@50 Acquired: 8/15/2013 15:34:09 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186933 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.15285** | **.00012** | **.01845** | **.01052** | **.00002** | **.00409** | **4.1076** | **.00037** | **.00014** |
| Stddev | .00007 | .00022 | .00082 | .00016 | .00005 | .00003 | .00053 | .0194 | .00016 | .00014 |
| %RSD | 61.625 | .14130 | 662.43 | .84207 | .50575 | 124.19 | 12.960 | .47303 | 44.238 | 98.023 |
| #1 | -.00006 | .15300 | -.00046 | .01834 | .01048 | .00005 | .00447 | 4.0939 | .00025 | .00004 |
| #2 | -.00015 | .15269 | .00070 | .01856 | .01056 | .00000 | .00372 | 4.1214 | .00049 | .00024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00260** | **.00141** | **5.1621** | **1.1970** | **.00039** | **6.2869** | **5.8760** | **-.00002** | **192.67** | **.00250** |
| Stddev | .00003 | .00031 | .0180 | .0222 | .00192 | .0018 | .0500 | .00016 | .63 | .00016 |
| %RSD | 1.1146 | 21.811 | .34859 | 1.8586 | 487.50 | .02850 | .85078 | 881.07 | .32533 | 6.5897 |
| #1 | .00262 | .00119 | 5.1493 | 1.2127 | .00175 | 6.2856 | 5.9113 | .00010 | 192.23 | .00262 |
| #2 | .00258 | .00162 | 5.1748 | 1.1813 | -.00096 | 6.2881 | 5.8406 | -.00013 | 193.11 | .00238 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.3242** | **.00270** | **4.5659** | **-.00026** | **.00325** | **.23479** | **.50244** | W **9.4103** | **.06626** | **.00068** |
| Stddev | .0189 | .00036 | .0143 | .00034 | .00189 | .00221 | .00472 | .0159 | .00025 | .00019 |
| %RSD | .43723 | 13.437 | .31245 | 129.21 | 58.290 | .94012 | .94012 | .16938 | .38252 | 27.505 |
| #1 | 4.3108 | .00296 | 4.5558 | -.00002 | .00191 | .23323 | .49910 | 9.3990 | .06608 | .00055 |
| #2 | 4.3376 | .00244 | 4.5760 | -.00050 | .00458 | .23635 | .50578 | 9.4216 | .06644 | .00082 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | 2.0000 | | |
| Low Limit | -1.0000 | | | | | | | -.05000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00318** | **.00098** | W **-.06632** | **.00486** | **.02884** | **.00655** |
| Stddev | .00021 | .00064 | .02717 | .00041 | .00008 | .00081 |
| %RSD | 6.4542 | 65.223 | 40.971 | 8.4212 | .27545 | 12.438 |
| #1 | .00304 | .00053 | -.08553 | .00515 | .02878 | .00712 |
| #2 | .00333 | .00143 | -.04710 | .00457 | .02889 | .00597 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8345.4** | **101780.** | **8678.5** |
| Stddev | 15.5 | 410. | 10.4 |
| %RSD | .18597 | .40305 | .11940 |
| #1 | 8356.4 | 102070. | 8685.9 |
| #2 | 8334.4 | 101490. | 8671.2 |

Sample Name: 280-45339-a-2-a@5 Acquired: 8/15/2013 15:36:30 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **17.860** | **.01456** | **.00489** | **.34222** | **.00134** | **.01227** | **2.9905** | **.03184** | **.02332** |
| Stddev | .00082 | .051 | .00051 | .00035 | .00067 | .00000 | .00067 | .0094 | .00001 | .00022 |
| %RSD | 269.15 | .28621 | 3.4878 | 7.1630 | .19585 | .09058 | 5.4858 | .31413 | .02602 | .93258 |
| #1 | .00027 | 17.824 | .01420 | .00514 | .34269 | .00134 | .01179 | 2.9838 | .03183 | .02317 |
| #2 | -.00088 | 17.896 | .01492 | .00464 | .34175 | .00134 | .01274 | 2.9971 | .03184 | .02347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07949** | W **19.776** | **33.672** | **1.5905** | **.01140** | **1.4301** | **1.7018** | **.00186** | **.29008** | **.03070** |
| Stddev | .00027 | .286 | .024 | .0129 | .00030 | .0014 | .0056 | .00011 | .02103 | .00012 |
| %RSD | .33704 | 1.4467 | .07100 | .80775 | 2.5958 | .09839 | .32933 | 5.9674 | 7.2485 | .39614 |
| #1 | .07930 | 19.979 | 33.689 | 1.5996 | .01119 | 1.4311 | 1.7057 | .00178 | .30495 | .03061 |
| #2 | .07968 | 19.574 | 33.655 | 1.5815 | .01161 | 1.4291 | 1.6978 | .00194 | .27521 | .03078 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | | | | | | | | |
| Low Limit | | -.01000 | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.43797** | **.15624** | **1.1402** | **-.00110** | **.00116** | **.42948** | **.91908** | **.01898** | **.01232** | **.01058** |
| Stddev | .00110 | .00189 | .0028 | .00178 | .00496 | .00450 | .00962 | .00163 | .00011 | .00146 |
| %RSD | .25061 | 1.2109 | .24535 | 162.61 | 429.12 | 1.0471 | 1.0471 | 8.5962 | .87832 | 13.838 |
| #1 | .43720 | .15490 | 1.1382 | -.00236 | .00467 | .43266 | .92589 | .01783 | .01239 | .00955 |
| #2 | .43875 | .15758 | 1.1421 | .00016 | -.00235 | .42630 | .91228 | .02013 | .01224 | .01162 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27530** | **-.00004** | W **-.05287** | **.08234** | **1.0330** | **.02306** |
| Stddev | .00194 | .00010 | .03645 | .00026 | .0038 | .00117 |
| %RSD | .70460 | 258.10 | 68.955 | .31139 | .36986 | 5.0942 |
| #1 | .27668 | .00003 | -.02709 | .08216 | 1.0357 | .02389 |
| #2 | .27393 | -.00011 | -.07865 | .08252 | 1.0303 | .02223 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8773.6** | **107140.** | **8860.1** |
| Stddev | 10.8 | 589. | 55.5 |
| %RSD | .12261 | .55005 | .62596 |
| #1 | 8781.2 | 106730. | 8820.8 |
| #2 | 8766.0 | 107560. | 8899.3 |

Sample Name: 280-45339-a-1-a@5 Acquired: 8/15/2013 15:38:50 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186693 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00026** | **52.662** | **.02916** | **.00375** | **.14917** | **.00304** | **.00311** | **6.4369** | **.00081** | **.01539** |
| Stddev | .00033 | .127 | .00058 | .00023 | .00119 | .00007 | .00207 | .0241 | .00020 | .00029 |
| %RSD | 128.08 | .24043 | 1.9826 | 6.1140 | .79577 | 2.3812 | 66.468 | .37412 | 24.153 | 1.8533 |
| #1 | -.00049 | 52.573 | .02875 | .00391 | .14833 | .00309 | .00457 | 6.4199 | .00068 | .01559 |
| #2 | -.00002 | 52.752 | .02957 | .00359 | .15001 | .00299 | .00165 | 6.4540 | .00095 | .01519 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06729** | **.01722** | **54.570** | **2.2426** | **.02656** | **1.7549** | **.79434** | **.00119** | **.20502** | **.04762** |
| Stddev | .00050 | .00049 | .121 | .0711 | .00012 | .0116 | .00356 | .00013 | .01120 | .00007 |
| %RSD | .74032 | 2.8189 | .22193 | 3.1713 | .46422 | .65945 | .44859 | 10.626 | 5.4643 | .15204 |
| #1 | .06764 | .01756 | 54.484 | 2.2928 | .02647 | 1.7468 | .79182 | .00110 | .21294 | .04756 |
| #2 | .06694 | .01688 | 54.656 | 2.1923 | .02665 | 1.7631 | .79686 | .00128 | .19709 | .04767 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22755** | **.04126** | **.10506** | **-.00269** | **.00148** | **.39008** | **.83477** | **.00645** | **.01305** | **.02008** |
| Stddev | .00013 | .00039 | .00167 | .00118 | .00135 | .00594 | .01272 | .00052 | .00007 | .00009 |
| %RSD | .05817 | .94335 | 1.5920 | 43.840 | 91.613 | 1.5234 | 1.5234 | 8.1366 | .51961 | .44858 |
| #1 | .22746 | .04099 | .10388 | -.00353 | .00243 | .39428 | .84376 | .00608 | .01300 | .02002 |
| #2 | .22764 | .04154 | .10624 | -.00186 | .00052 | .38588 | .82577 | .00682 | .01309 | .02015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12002** | **-.00069** | F **-.14492** | **.08982** | **.10101** | **.03360** |
| Stddev | .00071 | .00102 | .03252 | .00037 | .00005 | .00078 |
| %RSD | .59429 | 148.98 | 22.437 | .40941 | .04903 | 2.3319 |
| #1 | .11952 | -.00141 | -.16792 | .08956 | .10104 | .03415 |
| #2 | .12053 | .00004 | -.12193 | .09008 | .10097 | .03304 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9171.2** | **110710.** | **9284.6** |
| Stddev | 16.6 | 609. | .1 |
| %RSD | .18095 | .55044 | .00121 |
| #1 | 9159.5 | 111140. | 9284.7 |
| #2 | 9182.9 | 110280. | 9284.5 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 15:41:07 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **49.823** | **.00164** | **.00223** | **.00085** | **.00001** | **1.0076** | **-.00930** | **.00003** | **.00017** | **-.00012** | **.00235** | **49.304** |
| Stddev | .00110 | .038 | .00130 | .00024 | .00011 | .00002 | .0065 | .00012 | .00022 | .00013 | .00010 | .00033 | .398 |
| %RSD | 3625.3 | .07672 | 79.257 | 10.652 | 12.604 | 287.51 | .64682 | 1.3368 | 817.32 | 77.441 | 81.160 | 13.878 | .80784 |
| #1 | .00081 | 49.850 | .00256 | .00206 | .00092 | -.00001 | 1.0122 | -.00921 | -.00013 | .00008 | -.00019 | .00212 | 49.585 |
| #2 | -.00075 | 49.796 | .00072 | .00239 | .00077 | .00002 | 1.0030 | -.00939 | .00018 | .00027 | -.00005 | .00258 | 49.022 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09798** | **-.00014** | **.00440** | **.00006** | **-.00024** | **248.45** | **.00061** | **.00170** | **.00176** | **4.9975** | **-.00030** | **-.00318** | **.01034** |
| Stddev | .00647 | .00151 | .00001 | .00003 | .00010 | .32 | .00019 | .00166 | .00059 | .0252 | .00102 | .00480 | .01265 |
| %RSD | 6.5986 | 1041.6 | .23855 | 41.961 | 41.825 | .13064 | 30.694 | 97.504 | 33.494 | .50466 | 343.89 | 150.99 | 122.35 |
| #1 | .09341 | -.00121 | .00440 | .00008 | -.00032 | 248.68 | .00075 | .00288 | .00134 | 5.0154 | .00042 | -.00657 | .01929 |
| #2 | .10255 | .00092 | .00439 | .00004 | -.00017 | 248.22 | .00048 | .00053 | .00218 | 4.9797 | -.00101 | .00021 | .00139 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02213** | **.00183** | **.00033** | **4.8891** | **.00083** | **.00189** | **10.121** | **.00036** | **.00007** | **.01778** |
| Stddev | .02708 | .00059 | .00007 | .0025 | .00015 | .00062 | .001 | .00009 | .00048 | .00268 |
| %RSD | 122.35 | 32.362 | 22.590 | .05176 | 18.064 | 32.944 | .01315 | 24.480 | 708.54 | 15.089 |
| #1 | .04128 | .00141 | .00028 | 4.8909 | .00094 | .00145 | 10.120 | .00042 | -.00027 | .01589 |
| #2 | .00298 | .00224 | .00038 | 4.8873 | .00072 | .00233 | 10.122 | .00030 | .00040 | .01968 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8362.0** | **100030.** | **8514.7** |
| Stddev | 5.5 | 64. | 39.3 |
| %RSD | .06527 | .06352 | .46125 |
| #1 | 8365.8 | 100080. | 8542.5 |
| #2 | 8358.1 | 99989. | 8487.0 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 15:43:28 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49281** | **.51071** | **.98624** | **.50056** | **.48939** | **.49475** | **.00497** | **4.9659** | **.50173** | **.50323** | **.49480** | **.49885** | **2.5046** |
| Stddev | .00026 | .00007 | .00432 | .00212 | .00056 | .00141 | .00250 | .0239 | .00007 | .00031 | .00159 | .00137 | .0098 |
| %RSD | .05217 | .01429 | .43843 | .42405 | .11488 | .28420 | 50.177 | .48051 | .01481 | .06099 | .32051 | .27451 | .39066 |
| #1 | .49263 | .51066 | .98930 | .49906 | .48979 | .49574 | .00674 | 4.9827 | .50167 | .50344 | .49368 | .49789 | 2.5116 |
| #2 | .49299 | .51076 | .98318 | .50206 | .48899 | .49375 | .00321 | 4.9490 | .50178 | .50301 | .49592 | .49982 | 2.4977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.347** | **.97084** | **19.341** | **.49409** | **.49274** | **5.1308** | **.49911** | **.98352** | **1.0048** | **.00359** | **1.0058** | **.99931** | **4.9056** |
| Stddev | .132 | .00001 | .056 | .00192 | .00078 | .0341 | .00025 | .00091 | .0024 | .00206 | .0103 | .00880 | .0389 |
| %RSD | .26718 | .00145 | .29184 | .38865 | .15876 | .66528 | .04929 | .09222 | .23391 | 57.526 | 1.0211 | .88027 | .79278 |
| #1 | 49.440 | .97083 | 19.301 | .49273 | .49219 | 5.1550 | .49894 | .98288 | 1.0065 | .00505 | 1.0131 | 1.0055 | 4.9331 |
| #2 | 49.254 | .97085 | 19.381 | .49545 | .49329 | 5.1067 | .49929 | .98416 | 1.0032 | .00213 | .99854 | .99309 | 4.8781 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.498** | **.99217** | **.49288** | **-.00356** | **.49665** | **1.0274** | **-.02211** | **.49565** | **.48904** | **.49894** |
| Stddev | .083 | .00161 | .00011 | .00236 | .00067 | .0042 | .00244 | .00043 | .00077 | .00109 |
| %RSD | .79278 | .16224 | .02246 | 66.293 | .13442 | .40812 | 11.027 | .08578 | .15685 | .21828 |
| #1 | 10.557 | .99331 | .49280 | -.00523 | .49618 | 1.0303 | -.02038 | .49595 | .48958 | .49971 |
| #2 | 10.439 | .99103 | .49296 | -.00189 | .49712 | 1.0244 | -.02383 | .49535 | .48850 | .49817 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8560.5** | **104280.** | **8700.1** |
| Stddev | 6.8 | 31. | 44.0 |
| %RSD | .07891 | .02988 | .50586 |
| #1 | 8565.3 | 104300. | 8669.0 |
| #2 | 8555.7 | 104250. | 8731.2 |

Sample Name: CCB  Acquired: 8/15/2013 15:45:35  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00019** | **.00001** | **.00159** | **.00000** | **.00005** | **.00260** | **-.00145** | **-.00012** | **.00010** | **.00002** | **-.00064** |
| Stddev | .00038 | .00017 | .00108 | .00027 | .00024 | .00007 | .00118 | .00153 | .00019 | .00032 | .00006 | .00004 |
| %RSD | 185.96 | 90.843 | 15004. | 17.046 | 7429.2 | 124.50 | 45.496 | 105.35 | 153.88 | 307.22 | 391.82 | 6.4518 |
| #1 | .00048 | .00007 | .00077 | .00178 | .00018 | .00010 | .00176 | -.00254 | .00001 | -.00012 | .00006 | -.00061 |
| #2 | -.00006 | .00031 | -.00075 | .00140 | -.00017 | .00001 | .00344 | -.00037 | -.00026 | .00033 | -.00003 | -.00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00176** | **.05819** | **-.00081** | **.00238** | **.00009** | **.00091** | W **.09648** | **-.00015** | **.00069** | **-.00115** | **.00494** | F **.00770** |
| Stddev | .00233 | .05850 | .00024 | .00168 | .00003 | .00044 | .01165 | .00032 | .00030 | .00046 | .00234 | .00176 |
| %RSD | 131.85 | 100.52 | 29.453 | 70.799 | 30.573 | 48.098 | 12.074 | 208.74 | 43.206 | 40.363 | 47.288 | 22.833 |
| #1 | .00012 | .09956 | -.00098 | .00119 | .00011 | .00060 | .08824 | -.00038 | .00091 | -.00082 | .00659 | .00645 |
| #2 | .00341 | .01683 | -.00064 | .00357 | .00007 | .00122 | .10471 | .00007 | .00048 | -.00147 | .00329 | .00894 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | .09160 | | | | | .00628 |
| Low Limit | | | | | | | -.09160 | | | | | -.00628 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00347** | **-.00466** | **-.00998** | **.00250** | **.00006** | **.00035** | **.00006** | **.00054** | **-.04687** | **-.00025** | **.00094** | F **.00502** |
| Stddev | .00325 | .01113 | .02381 | .00023 | .00012 | .00049 | .00011 | .00001 | .01745 | .00026 | .00041 | .00568 |
| %RSD | 93.634 | 238.71 | 238.71 | 9.0661 | 184.21 | 141.82 | 180.19 | 2.6955 | 37.231 | 106.75 | 44.261 | 113.11 |
| #1 | .00117 | -.01253 | -.02681 | .00234 | -.00002 | .00000 | .00014 | .00055 | -.05921 | -.00006 | .00064 | .00101 |
| #2 | .00576 | .00321 | .00686 | .00266 | .00015 | .00069 | -.00002 | .00053 | -.03453 | -.00043 | .00123 | .00904 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | | | | | | .00476 |
| Low Limit | | | | | | | | | | | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8485.4** | **104930.** | **8529.7** |
| Stddev | 24.1 | 400. | 35.5 |
| %RSD | .28410 | .38114 | .41605 |
| #1 | 8502.4 | 105210. | 8554.8 |
| #2 | 8468.3 | 104650. | 8504.7 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 15:47:49 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01064** | **.10786** | **.01496** | **.09246** | **.00983** | **.00086** | **.10929** | **.20056** | **.00502** | **.01045** | **.01009** | **.01483** | **.10316** |
| Stddev | .00045 | .00003 | .00307 | .00019 | .00006 | .00004 | .00014 | .00603 | .00008 | .00020 | .00000 | .00024 | .00075 |
| %RSD | 4.2493 | .03147 | 20.545 | .20515 | .64758 | 5.0745 | .13016 | 3.0081 | 1.6384 | 1.9170 | .01600 | 1.6062 | .72843 |
| #1 | .01032 | .10784 | .01713 | .09233 | .00978 | .00083 | .10919 | .19629 | .00496 | .01059 | .01009 | .01466 | .10263 |
| #2 | .01096 | .10789 | .01279 | .09260 | .00987 | .00089 | .10939 | .20483 | .00508 | .01031 | .01009 | .01500 | .10369 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0936** | **.00853** | **.20064** | **.01004** | **.01942** | **1.1177** | **.04102** | **2.7553** | **.00792** | **.00026** | **.00880** | **.01358** | **.49836** |
| Stddev | .0222 | .00017 | .00069 | .00008 | .00003 | .0087 | .00014 | .0025 | .00113 | .00029 | .00088 | .00242 | .00038 |
| %RSD | .71595 | 1.9463 | .34496 | .83865 | .13612 | .77667 | .35260 | .08955 | 14.277 | 111.47 | 10.029 | 17.851 | .07691 |
| #1 | 3.1093 | .00865 | .20113 | .00998 | .01940 | 1.1238 | .04112 | 2.7536 | .00872 | .00005 | .00942 | .01529 | .49809 |
| #2 | 3.0779 | .00842 | .20015 | .01010 | .01943 | 1.1115 | .04092 | 2.7571 | .00712 | .00046 | .00817 | .01186 | .49863 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0665** | **.10048** | **.00995** | **.01528** | **.00966** | **.01560** | F **.01470** | **.00971** | **.02065** | **.01827** |
| Stddev | .0008 | .00114 | .00005 | .00282 | .00031 | .00084 | .01425 | .00030 | .00025 | .00081 |
| %RSD | .07691 | 1.1361 | .54129 | 18.480 | 3.1770 | 5.3941 | 96.919 | 3.0555 | 1.1917 | 4.4240 |
| #1 | 1.0659 | .09967 | .00999 | .01329 | .00945 | .01619 | .00463 | .00950 | .02083 | .01770 |
| #2 | 1.0671 | .10128 | .00991 | .01728 | .00988 | .01500 | .02477 | .00992 | .02048 | .01884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8587.9** | **106040.** | **8550.2** |
| Stddev | 7.8 | 262. | 29.3 |
| %RSD | .09130 | .24742 | .34217 |
| #1 | 8593.5 | 106230. | 8570.8 |
| #2 | 8582.4 | 105860. | 8529.5 |

Sample Name: mb 280-186955/1-a  Acquired: 8/15/2013 15:50:06  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186954 SOIL 6010B WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00368** | **-.00061** | **.00132** | **.00025** | **.00008** | **.00403** | **.02957** | **.00011** | **-.00002** |
| Stddev | .00073 | .00017 | .00086 | .00111 | .00008 | .00001 | .00117 | .00379 | .00016 | .00015 |
| %RSD | 712.16 | 4.6990 | 141.46 | 84.275 | 31.973 | 10.949 | 29.151 | 12.806 | 144.56 | 720.06 |
| #1 | -.00041 | .00380 | -.00122 | .00211 | .00030 | .00008 | .00320 | .02689 | .00000 | -.00013 |
| #2 | .00062 | .00356 | .00000 | .00053 | .00019 | .00009 | .00486 | .03225 | .00022 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00070** | **.00523** | **.05619** | **-.00144** | **.00569** | **.00018** | **.00000** | **.08810** | **.00039** |
| Stddev | .00015 | .00006 | .00199 | .03181 | .00564 | .00110 | .00005 | .00007 | .01046 | .00014 |
| %RSD | 167.80 | 8.1165 | 38.123 | 56.608 | 390.63 | 19.321 | 25.987 | 2400.1 | 11.874 | 34.281 |
| #1 | .00020 | .00074 | .00382 | .07868 | .00254 | .00646 | .00014 | -.00005 | .08070 | .00030 |
| #2 | -.00002 | .00066 | .00664 | .03370 | -.00543 | .00491 | .00021 | .00005 | .09550 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00558** | **-.00103** | **.02494** | **-.00388** | **.00236** | **.00684** | **.01463** | **.00949** | **.00005** | **.00161** |
| Stddev | .00090 | .00047 | .00103 | .00002 | .00248 | .01390 | .02976 | .00086 | .00011 | .00042 |
| %RSD | 16.141 | 46.176 | 4.1447 | .57072 | 105.22 | 203.36 | 203.36 | 9.1087 | 234.99 | 26.125 |
| #1 | .00494 | -.00136 | .02421 | -.00389 | .00412 | -.00299 | -.00641 | .00888 | -.00003 | .00191 |
| #2 | .00622 | -.00069 | .02567 | -.00386 | .00060 | .01667 | .03567 | .01010 | .00013 | .00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00142** | **.00038** | **-.00036** | **.00286** | **.00094** |
| Stddev | .00042 | .00008 | .02671 | .00033 | .00039 | .00088 |
| %RSD | 129.91 | 5.4132 | 6941.2 | 90.399 | 13.639 | 93.901 |
| #1 | .00062 | .00148 | -.01850 | -.00060 | .00258 | .00156 |
| #2 | .00003 | .00137 | .01927 | -.00013 | .00313 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8709.5** | **107850.** | **8747.8** |
| Stddev | 25.4 | 219. | 3.2 |
| %RSD | .29145 | .20300 | .03695 |
| #1 | 8691.5 | 107700. | 8745.5 |
| #2 | 8727.4 | 108010. | 8750.0 |

Sample Name: lcs 280-186954/2-a Acquired: 8/15/2013 15:52:20 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186954 SOIL 6010B WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04612** | **1.8600** | **.96267** | **.90951** | **1.9151** | **.04756** | **1.9871** | **47.595** | **.10053** | **.47328** |
| Stddev | .00007 | .0005 | .00250 | .00298 | .0095 | .00024 | .0091 | .173 | .00031 | .00017 |
| %RSD | .15548 | .02581 | .25983 | .32785 | .49809 | .49437 | .45588 | .36303 | .30500 | .03574 |
| #1 | .04607 | 1.8603 | .96090 | .90741 | 1.9084 | .04740 | 1.9807 | 47.473 | .10031 | .47340 |
| #2 | .04617 | 1.8596 | .96444 | .91162 | 1.9219 | .04773 | 1.9935 | 47.717 | .10075 | .47316 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19234** | **.24173** | **.96807** | **48.411** | **.94468** | **45.928** | **.46861** | **.93404** | **48.552** | **.47325** |
| Stddev | .00064 | .00053 | .00520 | .214 | .00011 | .189 | .00136 | .00304 | .371 | .00154 |
| %RSD | .33390 | .22113 | .53751 | .44226 | .01162 | .41209 | .28971 | .32517 | .76457 | .32619 |
| #1 | .19189 | .24210 | .96439 | 48.260 | .94460 | 46.062 | .46957 | .93190 | 48.289 | .47216 |
| #2 | .19280 | .24135 | .97175 | 48.563 | .94476 | 45.794 | .46765 | .93619 | 48.814 | .47434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.6450** | **.47744** | **.00185** | **.44502** | **1.8795** | **1.3232** | **2.8317** | **1.8590** | **.96145** | **.92148** |
| Stddev | .0039 | .00162 | .00079 | .00147 | .0037 | .0079 | .0170 | .0112 | .00499 | .00124 |
| %RSD | .04038 | .33912 | 42.660 | .32940 | .19667 | .59945 | .59945 | .60003 | .51898 | .13491 |
| #1 | 9.6422 | .47630 | .00241 | .44399 | 1.8769 | 1.3176 | 2.8197 | 1.8511 | .95792 | .92236 |
| #2 | 9.6477 | .47859 | .00129 | .44606 | 1.8821 | 1.3288 | 2.8437 | 1.8669 | .96498 | .92060 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.92974** | **1.8861** | **1.9754** | **.48173** | **.46123** | **.47217** |
| Stddev | .00326 | .0083 | .0237 | .00116 | .00263 | .00263 |
| %RSD | .35079 | .44129 | 1.1973 | .24117 | .57083 | .55611 |
| #1 | .93205 | 1.8802 | 1.9921 | .48255 | .46310 | .47031 |
| #2 | .92743 | 1.8919 | 1.9587 | .48091 | .45937 | .47403 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8305.1** | **101510.** | **8547.5** |
| Stddev | 18.0 | 120. | 10.0 |
| %RSD | .21707 | .11797 | .11653 |
| #1 | 8317.8 | 101430. | 8540.5 |
| #2 | 8292.3 | 101600. | 8554.6 |

Sample Name: 280-45299-a-1-a  Acquired: 8/15/2013 15:54:27  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186954 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00132** | **69.146** | **.03241** | **.01011** | **.52515** | **.00194** | **.00380** | **31.257** | **.00145** | **.04581** |
| Stddev | .00045 | .210 | .00250 | .00069 | .00160 | .00000 | .00084 | .112 | .00015 | .00002 |
| %RSD | 33.752 | .30377 | 7.7008 | 6.8566 | .30475 | .01831 | 21.974 | .35773 | 10.649 | .04219 |
| #1 | -.00101 | 68.998 | .03065 | .01060 | .52402 | .00194 | .00439 | 31.178 | .00134 | .04583 |
| #2 | -.00164 | 69.295 | .03418 | .00962 | .52629 | .00194 | .00321 | 31.336 | .00156 | .04580 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14835** | **.07511** | **143.22** | **10.690** | **.08478** | **39.531** | **1.8956** | **.00141** | **1.2218** | **.12582** |
| Stddev | .00045 | .00033 | .32 | .010 | .00126 | .126 | .0026 | .00028 | .0012 | .00030 |
| %RSD | .30512 | .43539 | .22033 | .09268 | 1.4897 | .31789 | .13674 | 19.622 | .09774 | .23532 |
| #1 | .14803 | .07534 | 143.00 | 10.683 | .08388 | 39.620 | 1.8975 | .00122 | 1.2226 | .12561 |
| #2 | .14867 | .07488 | 143.44 | 10.697 | .08567 | 39.443 | 1.8938 | .00161 | 1.2210 | .12603 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.5325** | **.03706** | **.14124** | **-.00201** | **-.00001** | **2.2560** | **4.8279** | **.00952** | **.23521** | **.04046** |
| Stddev | .0252 | .00173 | .00322 | .00007 | .00168 | .0187 | .0400 | .00071 | .00038 | .00073 |
| %RSD | .38597 | 4.6752 | 2.2824 | 3.3132 | 18487. | .82781 | .82781 | 7.4166 | .15949 | 1.8046 |
| #1 | 6.5146 | .03584 | .13896 | -.00197 | -.00120 | 2.2428 | 4.7996 | .00902 | .23495 | .04097 |
| #2 | 6.5503 | .03829 | .14352 | -.00206 | .00118 | 2.2692 | 4.8561 | .01002 | .23548 | .03994 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.5620** | **-.00196** | F **-.21993** | **.30069** | **.30593** | **.06488** |
| Stddev | .0046 | .00031 | .00126 | .00118 | .00184 | .00087 |
| %RSD | .08343 | 15.593 | .57162 | .39384 | .60200 | 1.3428 |
| #1 | 5.5653 | -.00218 | -.22081 | .29985 | .30723 | .06549 |
| #2 | 5.5587 | -.00175 | -.21904 | .30153 | .30463 | .06426 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8922.1** | **108460.** | **9086.6** |
| Stddev | .0 | 635. | 30.2 |
| %RSD | .00011 | .58581 | .33280 |
| #1 | 8922.1 | 108010. | 9108.0 |
| #2 | 8922.1 | 108910. | 9065.2 |

Sample Name: 280-45299-a-1-aSD@5 Acquired: 8/15/2013 15:56:42 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186954 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **14.666** | **.00785** | **.00385** | **.11119** | **.00038** | **.00336** | **6.6447** | **.00043** | **.01001** |
| Stddev | .00076 | .032 | .00330 | .00004 | .00012 | .00003 | .00315 | .0188 | .00022 | .00022 |
| %RSD | 674.60 | .21677 | 42.082 | 1.0851 | .10731 | 8.4821 | 93.614 | .28284 | 50.564 | 2.2000 |
| #1 | .00065 | 14.688 | .01019 | .00382 | .11110 | .00036 | .00559 | 6.6580 | .00028 | .01017 |
| #2 | -.00042 | 14.643 | .00551 | .00388 | .11127 | .00041 | .00114 | 6.6314 | .00059 | .00986 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03141** | **.01566** | **31.098** | **2.2449** | **.01475** | **8.3011** | **.40218** | **-.00001** | **.29338** | **.02731** |
| Stddev | .00004 | .00002 | .148 | .0031 | .00423 | .0075 | .00013 | .00035 | .00817 | .00008 |
| %RSD | .11995 | .15775 | .47563 | .13781 | 28.704 | .09047 | .03139 | 6524.0 | 2.7861 | .27704 |
| #1 | .03139 | .01568 | 31.203 | 2.2428 | .01176 | 8.2958 | .40227 | -.00025 | .29916 | .02726 |
| #2 | .03144 | .01564 | 30.994 | 2.2471 | .01775 | 8.3064 | .40209 | .00024 | .28760 | .02737 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3823** | **.00840** | **.03166** | **-.00274** | **.00160** | **.50580** | **1.0824** | **.00214** | **.05030** | **.00759** |
| Stddev | .0011 | .00220 | .00065 | .00080 | .00099 | .01951 | .0418 | .00029 | .00013 | .00026 |
| %RSD | .07637 | 26.221 | 2.0497 | 29.130 | 61.466 | 3.8576 | 3.8576 | 13.619 | .26296 | 3.4838 |
| #1 | 1.3830 | .00684 | .03120 | -.00330 | .00230 | .49201 | 1.0529 | .00235 | .05039 | .00741 |
| #2 | 1.3815 | .00995 | .03212 | -.00217 | .00091 | .51960 | 1.1119 | .00194 | .05021 | .00778 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1548** | **-.00133** | W **-.05094** | **.06283** | **.06636** | **.01596** |
| Stddev | .0002 | .00220 | .03024 | .00004 | .00039 | .00008 |
| %RSD | .02110 | 164.69 | 59.367 | .06378 | .58953 | .53202 |
| #1 | 1.1550 | -.00289 | -.07232 | .06286 | .06663 | .01590 |
| #2 | 1.1547 | .00022 | -.02956 | .06281 | .06608 | .01602 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8797.5** | **107340.** | **8801.4** |
| Stddev | 1.9 | 518. | 2.5 |
| %RSD | .02159 | .48212 | .02874 |
| #1 | 8798.8 | 106980. | 8803.2 |
| #2 | 8796.1 | 107710. | 8799.7 |

Sample Name: 280-45299-a-1-b du  Acquired: 8/15/2013 15:58:58  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186954 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00094** | **73.192** | **.03339** | **.00964** | **.57032** | **.00213** | **.00460** | **32.436** | **.00163** | **.04815** |
| Stddev | .00016 | .036 | .00190 | .00009 | .00077 | .00001 | .00356 | .040 | .00003 | .00065 |
| %RSD | 17.314 | .04875 | 5.7010 | .91646 | .13421 | .59685 | 77.330 | .12198 | 1.5360 | 1.3403 |
| #1 | -.00083 | 73.217 | .03474 | .00958 | .56978 | .00214 | .00712 | 32.408 | .00161 | .04860 |
| #2 | -.00106 | 73.167 | .03204 | .00970 | .57086 | .00212 | .00209 | 32.464 | .00165 | .04769 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15873** | **.07967** | **153.82** | **11.435** | **.08607** | **41.283** | **2.0386** | **.00069** | **1.3058** | **.13639** |
| Stddev | .00039 | .00025 | .46 | .017 | .00103 | .021 | .0024 | .00014 | .0022 | .00015 |
| %RSD | .24674 | .31555 | .29672 | .15184 | 1.1985 | .05201 | .11856 | 20.803 | .16980 | .10726 |
| #1 | .15900 | .07984 | 153.50 | 11.447 | .08680 | 41.268 | 2.0369 | .00079 | 1.3073 | .13629 |
| #2 | .15845 | .07949 | 154.15 | 11.422 | .08534 | 41.298 | 2.0404 | .00058 | 1.3042 | .13650 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.5956** | **.04144** | **.15851** | **-.00015** | **-.00126** | **2.3994** | **5.1347** | **.00926** | **.26099** | **.03980** |
| Stddev | .0037 | .00006 | .00073 | .00220 | .00534 | .0010 | .0021 | .00000 | .00052 | .00015 |
| %RSD | .05628 | .15137 | .46029 | 1466.7 | 424.06 | .03983 | .03983 | .00550 | .20000 | .36948 |
| #1 | 6.5982 | .04140 | .15903 | .00141 | .00252 | 2.3987 | 5.1333 | .00926 | .26062 | .03991 |
| #2 | 6.5929 | .04149 | .15800 | -.00171 | -.00504 | 2.4001 | 5.1362 | .00926 | .26136 | .03970 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.0061** | **-.00294** | F **-.24100** | **.32679** | **.32090** | **.06916** |
| Stddev | .0044 | .00078 | .02706 | .00090 | .00024 | .00143 |
| %RSD | .07330 | 26.683 | 11.229 | .27574 | .07444 | 2.0629 |
| #1 | 6.0030 | -.00349 | -.26014 | .32615 | .32073 | .07017 |
| #2 | 6.0092 | -.00238 | -.22187 | .32742 | .32107 | .06815 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8982.3** | **109220.** | **9185.2** |
| Stddev | 18.0 | 147. | .9 |
| %RSD | .20013 | .13433 | .00942 |
| #1 | 8995.0 | 109120. | 9185.9 |
| #2 | 8969.6 | 109320. | 9184.6 |

Sample Name: 280-45299-a-1-c ms  Acquired: 8/15/2013 16:01:11  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186954 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04401** | **92.875** | **.96224** | **.86806** | **2.6032** | **.04861** | F **1.9225** | **89.067** | **.09917** | **.50084** |
| Stddev | .00027 | .248 | .00008 | .00037 | .0086 | .00011 | .0074 | .316 | .00005 | .00062 |
| %RSD | .60426 | .26691 | .00880 | .04215 | .32957 | .23418 | .38296 | .35440 | .04917 | .12333 |
| #1 | .04420 | 92.700 | .96218 | .86832 | 2.5971 | .04853 | 1.9277 | 88.844 | .09920 | .50128 |
| #2 | .04382 | 93.051 | .96230 | .86780 | 2.6093 | .04869 | 1.9173 | 89.291 | .09913 | .50041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35978** | **.32055** | **155.02** | **61.886** | **1.0192** | **88.491** | **2.5612** | **.87486** | **50.375** | **.58507** |
| Stddev | .00102 | .00177 | .70 | .164 | .0013 | .063 | .0021 | .00028 | .550 | .00049 |
| %RSD | .28394 | .55127 | .45343 | .26456 | .12617 | .07156 | .08093 | .03199 | 1.0923 | .08456 |
| #1 | .36050 | .32180 | 154.53 | 61.770 | 1.0201 | 88.536 | 2.5627 | .87467 | 49.986 | .58472 |
| #2 | .35906 | .31930 | 155.52 | 62.002 | 1.0183 | 88.446 | 2.5598 | .87506 | 50.764 | .58542 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **16.595** | **.49082** | **.16010** | **.26932** | **1.7912** | **4.1709** | **8.9256** | **1.7239** | **1.2637** | **.95405** |
| Stddev | .013 | .00125 | .00194 | .00022 | .0018 | .0058 | .0124 | .0006 | .0019 | .00141 |
| %RSD | .08131 | .25411 | 1.2101 | .08087 | .09838 | .13906 | .13906 | .03483 | .15416 | .14809 |
| #1 | 16.604 | .49170 | .16147 | .26947 | 1.7899 | 4.1750 | 8.9344 | 1.7244 | 1.2624 | .95305 |
| #2 | 16.585 | .48994 | .15873 | .26916 | 1.7924 | 4.1668 | 8.9169 | 1.7235 | 1.2651 | .95505 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.6255** | **1.7343** | **1.6385** | **.85911** | **.77301** | **.55894** |
| Stddev | .0169 | .0028 | .0403 | .00048 | .00043 | .00000 |
| %RSD | .19620 | .16312 | 2.4568 | .05554 | .05622 | .00073 |
| #1 | 8.6375 | 1.7363 | 1.6101 | .85877 | .77271 | .55894 |
| #2 | 8.6135 | 1.7323 | 1.6670 | .85945 | .77332 | .55894 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8876.1** | **107780.** | **9355.9** |
| Stddev | 27.3 | 464. | 43.4 |
| %RSD | .30774 | .43077 | .46431 |
| #1 | 8895.5 | 107460. | 9386.7 |
| #2 | 8856.8 | 108110. | 9325.2 |

Sample Name: 280-45299-a-2-a  Acquired: 8/15/2013 16:03:24  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186954 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00082** | **74.624** | **.03356** | **.01262** | **.60621** | **.00226** | **.00517** | **33.170** | **.00185** | **.04942** |
| Stddev | .00028 | .044 | .00473 | .00013 | .00161 | .00005 | .00225 | .047 | .00002 | .00055 |
| %RSD | 34.175 | .05879 | 14.086 | 1.0440 | .26507 | 2.3044 | 43.508 | .14222 | .91058 | 1.1212 |
| #1 | -.00062 | 74.655 | .03022 | .01271 | .60735 | .00223 | .00676 | 33.203 | .00183 | .04981 |
| #2 | -.00102 | 74.593 | .03690 | .01252 | .60508 | .00230 | .00358 | 33.137 | .00186 | .04903 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16671** | **.09799** | **162.36** | **14.293** | **.08909** | **40.316** | **2.0800** | **.00203** | **1.3265** | **.13995** |
| Stddev | .00015 | .00051 | .59 | .043 | .00150 | .059 | .0008 | .00024 | .0099 | .00019 |
| %RSD | .08919 | .52334 | .36179 | .30399 | 1.6810 | .14683 | .03640 | 11.575 | .74801 | .13397 |
| #1 | .16682 | .09835 | 162.77 | 14.324 | .09015 | 40.274 | 2.0806 | .00186 | 1.3335 | .14008 |
| #2 | .16661 | .09763 | 161.94 | 14.263 | .08804 | 40.358 | 2.0795 | .00220 | 1.3195 | .13982 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.5666** | **.04623** | **.48759** | **-.00133** | **.00273** | **3.7647** | **8.0564** | **.00990** | **.25543** | **.04057** |
| Stddev | .0076 | .00014 | .00185 | .00068 | .00459 | .0232 | .0496 | .00032 | .00019 | .00325 |
| %RSD | .10034 | .30272 | .37953 | 50.853 | 168.20 | .61620 | .61620 | 3.1948 | .07585 | 8.0195 |
| #1 | 7.5613 | .04633 | .48628 | -.00085 | -.00052 | 3.7811 | 8.0915 | .00967 | .25529 | .03827 |
| #2 | 7.5720 | .04613 | .48890 | -.00181 | .00598 | 3.7483 | 8.0213 | .01012 | .25556 | .04288 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.9881** | **-.00134** | F **-.23487** | **.35421** | **.34203** | **.07738** |
| Stddev | .0104 | .00074 | .06483 | .00098 | .00068 | .00030 |
| %RSD | .17308 | 55.297 | 27.601 | .27629 | .19982 | .38755 |
| #1 | 5.9955 | -.00082 | -.18903 | .35490 | .34155 | .07717 |
| #2 | 5.9808 | -.00187 | -.28071 | .35352 | .34251 | .07759 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9027.1** | **109800.** | **9313.7** |
| Stddev | 21.1 | 263. | 15.3 |
| %RSD | .23411 | .23951 | .16457 |
| #1 | 9012.2 | 109980. | 9302.8 |
| #2 | 9042.0 | 109610. | 9324.5 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 16:05:38 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **49.446** | **.00264** | **.00292** | **.00090** | **-.00001** | **1.0151** | **-.00751** | **.00008** | **.00023** | **-.00011** | **.00234** | **49.452** |
| Stddev | .00002 | .012 | .00049 | .00020 | .00024 | .00009 | .0011 | .00627 | .00001 | .00010 | .00021 | .00003 | .141 |
| %RSD | 3.7566 | .02356 | 18.741 | 6.7903 | 27.046 | 723.65 | .10427 | 83.505 | 18.521 | 44.889 | 187.16 | 1.3867 | .28597 |
| #1 | .00061 | 49.454 | .00299 | .00278 | .00107 | -.00007 | 1.0143 | -.00307 | .00007 | .00015 | .00004 | .00237 | 49.552 |
| #2 | .00058 | 49.438 | .00229 | .00306 | .00073 | .00005 | 1.0158 | -.01194 | .00009 | .00030 | -.00026 | .00232 | 49.352 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16612** | **.00215** | **.00165** | **.00002** | **.00014** | **248.80** | **.00083** | **.00188** | **-.00089** | **4.9931** | **.00009** | **.00001** | **-.00152** |
| Stddev | .01684 | .00409 | .00721 | .00012 | .00015 | .48 | .00011 | .00243 | .00119 | .0016 | .00007 | .00118 | .01163 |
| %RSD | 10.139 | 190.03 | 435.88 | 518.59 | 107.23 | .19129 | 13.615 | 129.73 | 133.29 | .03234 | 80.635 | 13866. | 765.85 |
| #1 | .15421 | -.00074 | -.00344 | -.00006 | .00003 | 248.46 | .00075 | .00016 | -.00005 | 4.9942 | .00014 | .00084 | .00670 |
| #2 | .17803 | .00504 | .00675 | .00011 | .00024 | 249.14 | .00091 | .00360 | -.00173 | 4.9920 | .00004 | -.00082 | -.00974 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00325** | **.00001** | **.00039** | **4.8586** | **.00098** | **.00084** | **10.076** | **.00070** | **.00015** | **.01861** |
| Stddev | .02488 | .00065 | .00010 | .0052 | .00003 | .00049 | .059 | .00042 | .00007 | .00046 |
| %RSD | 765.85 | 6083.2 | 24.793 | .10693 | 3.2350 | 57.866 | .58204 | 59.900 | 44.224 | 2.4695 |
| #1 | .01434 | -.00045 | .00045 | 4.8549 | .00100 | .00118 | 10.118 | .00099 | .00010 | .01894 |
| #2 | -.02084 | .00047 | .00032 | 4.8623 | .00095 | .00050 | 10.035 | .00040 | .00020 | .01829 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8435.4** | **102560.** | **8703.5** |
| Stddev | 7.1 | 476. | 74.2 |
| %RSD | .08475 | .46413 | .85202 |
| #1 | 8430.3 | 102230. | 8651.1 |
| #2 | 8440.4 | 102900. | 8756.0 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 16:08:00 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49437** | **.51022** | **.99094** | **.50265** | **.49569** | **.49500** | **.00257** | **4.9739** | **.50282** | **.50269** | **.49713** | **.49983** | **2.5089** |
| Stddev | .00096 | .00097 | .00135 | .00096 | .00189 | .00216 | .00357 | .0031 | .00054 | .00049 | .00062 | .00008 | .0092 |
| %RSD | .19360 | .18926 | .13646 | .19189 | .38029 | .43619 | 138.93 | .06241 | .10838 | .09684 | .12514 | .01567 | .36666 |
| #1 | .49505 | .51091 | .98998 | .50197 | .49435 | .49347 | .00005 | 4.9717 | .50243 | .50235 | .49757 | .49988 | 2.5024 |
| #2 | .49370 | .50954 | .99189 | .50333 | .49702 | .49653 | .00510 | 4.9761 | .50321 | .50303 | .49669 | .49977 | 2.5154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.539** | **.98259** | **19.427** | **.49319** | **.49764** | **5.0730** | **.50137** | **.99188** | **1.0099** | **-.00575** | **1.0076** | **1.0017** | **4.9333** |
| Stddev | .098 | .00050 | .023 | .00043 | .00060 | .0030 | .00116 | .00054 | .0003 | .00303 | .0016 | .0017 | .0292 |
| %RSD | .19708 | .05046 | .11950 | .08818 | .12016 | .05949 | .23161 | .05489 | .02498 | 52.760 | .15448 | .17027 | .59198 |
| #1 | 49.470 | .98224 | 19.444 | .49349 | .49722 | 5.0708 | .50055 | .99149 | 1.0097 | -.00789 | 1.0065 | 1.0029 | 4.9540 |
| #2 | 49.608 | .98294 | 19.411 | .49288 | .49807 | 5.0751 | .50219 | .99226 | 1.0100 | -.00360 | 1.0087 | 1.0005 | 4.9127 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.557** | **1.0023** | **.49477** | **-.00497** | **.49433** | **1.0313** | **-.02853** | **.49682** | **.49175** | **.49638** |
| Stddev | .063 | .0016 | .00106 | .00088 | .00005 | .0008 | .00035 | .00016 | .00122 | .00035 |
| %RSD | .59198 | .15727 | .21416 | 17.704 | .00958 | .07714 | 1.2204 | .03135 | .24832 | .07144 |
| #1 | 10.601 | 1.0034 | .49402 | -.00559 | .49436 | 1.0318 | -.02877 | .49693 | .49262 | .49613 |
| #2 | 10.513 | 1.0012 | .49552 | -.00435 | .49430 | 1.0307 | -.02828 | .49671 | .49089 | .49663 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8631.6** | **104880.** | **8822.3** |
| Stddev | 5.4 | 146. | 20.7 |
| %RSD | .06218 | .13894 | .23415 |
| #1 | 8627.8 | 104980. | 8836.9 |
| #2 | 8635.4 | 104770. | 8807.7 |

Sample Name: CCB Acquired: 8/15/2013 16:10:07 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00013** | **-.00031** | **.00147** | **.00033** | **-.00006** | **.00231** | **.00095** | **-.00011** | **.00007** | **-.00016** |
| Stddev | .00003 | .00024 | .00158 | .00042 | .00012 | .00007 | .00120 | .00381 | .00018 | .00013 | .00015 |
| %RSD | 6.4245 | 188.77 | 503.12 | 28.420 | 37.494 | 126.75 | 51.950 | 402.93 | 159.84 | 190.47 | 95.174 |
| #1 | .00045 | -.00004 | -.00143 | .00177 | .00024 | -.00001 | .00316 | -.00175 | -.00024 | .00016 | -.00005 |
| #2 | .00041 | .00030 | .00080 | .00117 | .00041 | -.00011 | .00146 | .00364 | .00001 | -.00002 | -.00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.00148** | **.07253** | W **-.00435** | **.00278** | **.00009** | **.00096** | **.05543** | **.00022** | **.00102** | **-.00140** |
| Stddev | .00020 | .00025 | .01244 | .00286 | .00165 | .00002 | .00021 | .00112 | .00020 | .00013 | .00043 |
| %RSD | 59.611 | 16.733 | 17.151 | 65.784 | 59.431 | 22.320 | 21.970 | 2.0284 | 89.896 | 13.165 | 30.347 |
| #1 | -.00048 | .00131 | .08133 | -.00233 | .00161 | .00007 | .00081 | .05623 | .00036 | .00093 | -.00171 |
| #2 | -.00019 | .00166 | .06374 | -.00637 | .00395 | .00010 | .00110 | .05464 | .00008 | .00112 | -.00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00429** | W **.00541** | **-.00037** | **.01366** | **.02924** | **.00031** | **.00000** | **.00111** | **.00014** | **.00024** | **-.02044** |
| Stddev | .00014 | .00408 | .00005 | .01134 | .02426 | .00086 | .0001 | .00085 | .00037 | .00017 | .00444 |
| %RSD | 3.3191 | 75.421 | 14.675 | 82.974 | 82.974 | 278.15 | 1333.3 | 76.482 | 259.78 | 72.470 | 21.713 |
| #1 | -.00439 | .00253 | -.00040 | .00565 | .01208 | -.00030 | .00004 | .00051 | -.00012 | .00012 | -.01730 |
| #2 | -.00419 | .00830 | -.00033 | .02168 | .04639 | .00092 | -.00005 | .00171 | .00040 | .00036 | -.02358 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **.00002** | **.00150** | W **.00440** |
| Stddev | .00036 | .00073 | .00061 |
| %RSD | 1893.1 | 48.358 | 13.808 |
| #1 | -.00023 | .00099 | .00483 |
| #2 | .00027 | .00201 | .00397 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8539.8** | **106090.** | **8633.4** |
| Stddev | 12.2 | 12. | 89.8 |
| %RSD | .14265 | .01153 | 1.0400 |
| #1 | 8548.4 | 106090. | 8569.9 |
| #2 | 8531.2 | 106080. | 8696.9 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 16:12:22 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00993** | **.10831** | **.01840** | **.09337** | **.01018** | **.00090** | **.11051** | **.20277** | **.00504** | **.01041** | **.01014** | **.01464** | **.10281** |
| Stddev | .00081 | .00005 | .00230 | .00076 | .00010 | .00000 | .00220 | .00911 | .00005 | .00025 | .00006 | .00034 | .00210 |
| %RSD | 8.1328 | .04712 | 12.507 | .81219 | .97360 | .45228 | 1.9916 | 4.4904 | .92236 | 2.3530 | .56868 | 2.3024 | 2.0432 |
| #1 | .00936 | .10835 | .01677 | .09390 | .01011 | .00090 | .10895 | .19633 | .00507 | .01024 | .01010 | .01488 | .10430 |
| #2 | .01050 | .10828 | .02003 | .09283 | .01025 | .00090 | .11206 | .20921 | .00500 | .01059 | .01018 | .01440 | .10133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0382** | **.00905** | **.19772** | **.01009** | **.01950** | **1.0851** | **.04137** | **2.7946** | **.00824** | **-.00374** | F **.00670** | **.01732** | **.48586** |
| Stddev | .0631 | .00135 | .00038 | .00005 | .00030 | .0085 | .00003 | .0138 | .00093 | .00102 | .00333 | .00118 | .01261 |
| %RSD | 2.0757 | 14.861 | .19122 | .52075 | 1.5302 | .78103 | .06801 | .49374 | 11.264 | 27.367 | 49.730 | 6.8045 | 2.5958 |
| #1 | 2.9936 | .00810 | .19799 | .01005 | .01971 | 1.0791 | .04135 | 2.8043 | .00759 | -.00446 | .00434 | .01649 | .49478 |
| #2 | 3.0828 | .01000 | .19745 | .01013 | .01929 | 1.0911 | .04139 | 2.7848 | .00890 | -.00302 | .00906 | .01815 | .47695 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0398** | **.10081** | **.01011** | **.01406** | **.00993** | **.01541** | **.06061** | **.00972** | **.02066** | **.01829** |
| Stddev | .0270 | .00029 | .00009 | .00062 | .00010 | .00018 | .00888 | .00065 | .00002 | .00221 |
| %RSD | 2.5958 | .28590 | .89419 | 4.4104 | 1.0213 | 1.1434 | 14.655 | 6.7282 | .12053 | 12.097 |
| #1 | 1.0588 | .10061 | .01017 | .01450 | .00986 | .01528 | .05433 | .00926 | .02067 | .01673 |
| #2 | 1.0207 | .10102 | .01004 | .01362 | .01000 | .01553 | .06690 | .01019 | .02064 | .01986 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8635.2** | **106270.** | **8681.0** |
| Stddev | 22.6 | 18. | 14.2 |
| %RSD | .26198 | .01715 | .16316 |
| #1 | 8619.2 | 106280. | 8670.9 |
| #2 | 8651.2 | 106260. | 8691.0 |

Sample Name: mb 280-186955/1-a  Acquired: 8/15/2013 16:14:39  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186955 SOIL 6010B WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.01320** | **-.00076** | **.00122** | **-.00002** | **-.00004** | **.00414** | **.04476** | **-.00003** | **-.00014** |
| Stddev | .00026 | .00010 | .00068 | .00026 | .00011 | .00004 | .00004 | .00295 | .00001 | .00005 |
| %RSD | 816.76 | .74092 | 89.674 | 21.071 | 428.70 | 97.197 | .96385 | 6.5835 | 21.688 | 32.541 |
| #1 | .00015 | .01313 | -.00028 | .00140 | -.00010 | -.00007 | .00412 | .04267 | -.00003 | -.00017 |
| #2 | -.00022 | .01327 | -.00124 | .00103 | .00005 | -.00001 | .00417 | .04684 | -.00004 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00028** | **.01858** | **.08523** | **-.00217** | **.00743** | **.00028** | **.00007** | **.07033** | **.00029** |
| Stddev | .00006 | .00011 | .00065 | .06546 | .00380 | .00141 | .00006 | .00000 | .02218 | .00042 |
| %RSD | 17.456 | 37.461 | 3.5003 | 76.800 | 175.34 | 19.026 | 21.883 | 3.5170 | 31.538 | 144.84 |
| #1 | .00032 | .00021 | .01904 | .13151 | .00052 | .00844 | .00024 | .00007 | .05465 | .00059 |
| #2 | .00041 | .00036 | .01812 | .03894 | -.00485 | .00643 | .00033 | .00008 | .08602 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00582** | **-.00181** | **.02225** | **-.00269** | **.00049** | **.02812** | **.06017** | **.00893** | **.00006** | **.00056** |
| Stddev | .00040 | .00008 | .00267 | .00198 | .00445 | .00903 | .01933 | .00020 | .00024 | .00109 |
| %RSD | 6.9532 | 4.2229 | 11.993 | 73.550 | 916.89 | 32.128 | 32.128 | 2.2228 | 384.10 | 195.47 |
| #1 | .00611 | -.00175 | .02036 | -.00408 | -.00266 | .02173 | .04650 | .00907 | .00024 | .00133 |
| #2 | .00554 | -.00186 | .02413 | -.00129 | .00363 | .03451 | .07384 | .00879 | -.00011 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **-.00001** | **.01484** | **-.00023** | **.00351** | **.00228** |
| Stddev | .00000 | .00027 | .00241 | .00027 | .00024 | .00073 |
| %RSD | .59753 | 1798.5 | 16.225 | 119.72 | 6.7826 | 31.982 |
| #1 | .00072 | -.00020 | .01314 | -.00003 | .00368 | .00177 |
| #2 | .00072 | .00017 | .01654 | -.00042 | .00334 | .00280 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8777.1** | **108400.** | **8768.2** |
| Stddev | 5.9 | 697. | .6 |
| %RSD | .06755 | .64318 | .00680 |
| #1 | 8781.3 | 108900. | 8767.7 |
| #2 | 8772.9 | 107910. | 8768.6 |

Sample Name: lcs 280-186955/2-a  Acquired: 8/15/2013 16:16:54  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186955 SOIL 6010B WC

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04815** | **1.9291** | **.99680** | **.93995** | **1.9856** | **.04940** | **2.0567** | **49.298** | **.10432** | **.48982** |
| Stddev | .00021 | .0057 | .00467 | .00248 | .0029 | .00018 | .0051 | .052 | .00055 | .00041 |
| %RSD | .43809 | .29466 | .46889 | .26345 | .14792 | .36257 | .24597 | .10485 | .52464 | .08367 |
| #1 | .04830 | 1.9251 | 1.0001 | .94170 | 1.9836 | .04927 | 2.0602 | 49.261 | .10471 | .49011 |
| #2 | .04800 | 1.9331 | .99349 | .93820 | 1.9877 | .04952 | 2.0531 | 49.334 | .10393 | .48953 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19888** | **.24966** | **1.0118** | **50.016** | **.97747** | **47.316** | **.48370** | **.95971** | **49.743** | **.48831** |
| Stddev | .00012 | .00023 | .0028 | .140 | .00125 | .025 | .00020 | .00330 | .028 | .00175 |
| %RSD | .05805 | .09141 | .27266 | .27905 | .12838 | .05301 | .04116 | .34420 | .05684 | .35893 |
| #1 | .19896 | .24950 | 1.0099 | 49.917 | .97658 | 47.299 | .48356 | .96204 | 49.723 | .48955 |
| #2 | .19880 | .24982 | 1.0138 | 50.115 | .97836 | 47.334 | .48384 | .95737 | 49.763 | .48707 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.001** | **.49481** | **-.00076** | **.46099** | **1.9504** | **1.3435** | **2.8752** | **1.9126** | **.99530** | **.95009** |
| Stddev | .018 | .00035 | .00265 | .00001 | .0121 | .0097 | .0207 | .0025 | .00033 | .00235 |
| %RSD | .17697 | .07110 | 347.14 | .00323 | .62065 | .72098 | .72098 | .13293 | .03350 | .24741 |
| #1 | 10.014 | .49456 | .00111 | .46100 | 1.9589 | 1.3504 | 2.8898 | 1.9144 | .99506 | .95175 |
| #2 | 9.9887 | .49506 | -.00264 | .46098 | 1.9418 | 1.3367 | 2.8605 | 1.9108 | .99553 | .94843 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.95384** | **1.9555** | **2.0566** | **.49747** | **.47759** | **.48715** |
| Stddev | .00059 | .0074 | .0258 | .00077 | .00070 | .00516 |
| %RSD | .06177 | .37695 | 1.2525 | .15527 | .14574 | 1.0596 |
| #1 | .95425 | 1.9607 | 2.0748 | .49802 | .47710 | .48350 |
| #2 | .95342 | 1.9503 | 2.0384 | .49692 | .47808 | .49080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8341.1** | **103020.** | **8663.5** |
| Stddev | 12.0 | 176. | 2.9 |
| %RSD | .14361 | .17051 | .03342 |
| #1 | 8349.5 | 102890. | 8661.4 |
| #2 | 8332.6 | 103140. | 8665.5 |

Sample Name: 280-45300-a-1-a  Acquired: 8/15/2013 16:19:01  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186955 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00160** | **114.51** | **.20467** | **.01213** | **1.4470** | **.00409** | **.00679** | **35.172** | **.00672** | **.09365** |
| Stddev | .00055 | .08 | .00217 | .00008 | .0043 | .00003 | .00018 | .021 | .00012 | .00017 |
| %RSD | 34.237 | .07420 | 1.0599 | .66659 | .29827 | .83573 | 2.6070 | .05874 | 1.7202 | .18028 |
| #1 | -.00199 | 114.57 | .20314 | .01219 | 1.4439 | .00411 | .00666 | 35.157 | .00680 | .09377 |
| #2 | -.00121 | 114.45 | .20621 | .01208 | 1.4500 | .00406 | .00691 | 35.186 | .00664 | .09353 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4043** | **.32365** | **249.13** | **11.893** | **.15376** | **38.871** | **6.5563** | **.01345** | **1.4031** | **.27272** |
| Stddev | .0006 | .00069 | .28 | .020 | .00220 | .017 | .0168 | .00033 | .0167 | .00054 |
| %RSD | .03890 | .21411 | .11151 | .16667 | 1.4277 | .04447 | .25576 | 2.4646 | 1.1899 | .19980 |
| #1 | 1.4047 | .32316 | 248.93 | 11.907 | .15531 | 38.883 | 6.5445 | .01322 | 1.4149 | .27310 |
| #2 | 1.4039 | .32414 | 249.33 | 11.879 | .15221 | 38.858 | 6.5682 | .01369 | 1.3913 | .27233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.9170** | **.17028** | **3.2565** | **.00001** | **.00141** | **2.3073** | **4.9377** | **.01020** | **.25167** | **.04549** |
| Stddev | .0066 | .00173 | .0038 | .00338 | .00209 | .0264 | .0564 | .00036 | .00034 | .00310 |
| %RSD | .09605 | 1.0146 | .11757 | 50125. | 148.23 | 1.1423 | 1.1423 | 3.5670 | .13667 | 6.8245 |
| #1 | 6.9123 | .17151 | 3.2538 | .00240 | .00289 | 2.3260 | 4.9776 | .00995 | .25192 | .04769 |
| #2 | 6.9217 | .16906 | 3.2592 | -.00238 | -.00007 | 2.2887 | 4.8978 | .01046 | .25143 | .04330 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.3476** | **-.00257** | F **-.22401** | **.59749** | **.92387** | **.11717** |
| Stddev | .0804 | .00093 | .00113 | .00191 | .00062 | .00140 |
| %RSD | .85955 | 36.192 | .50223 | .32025 | .06733 | 1.1986 |
| #1 | 9.2908 | -.00191 | -.22481 | .59614 | .92431 | .11617 |
| #2 | 9.4044 | -.00322 | -.22321 | .59884 | .92343 | .11816 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9408.5** | **114010.** | **9725.2** |
| Stddev | 13.1 | 303. | 60.7 |
| %RSD | .13875 | .26579 | .62447 |
| #1 | 9399.3 | 114220. | 9768.2 |
| #2 | 9417.7 | 113790. | 9682.3 |

Sample Name: 280-45300-a-1-aSD@5 Acquired: 8/15/2013 16:21:28 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186955 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00065** | **25.673** | **.04826** | **.00438** | **.32440** | **.00086** | **.00333** | **7.9435** | **.00141** | **.02228** |
| Stddev | .00009 | .059 | .00030 | .00024 | .00018 | .00002 | .00156 | .0136 | .00007 | .00020 |
| %RSD | 13.689 | .23164 | .62978 | 5.5293 | .05407 | 2.7225 | 46.875 | .17075 | 4.8682 | .89042 |
| #1 | -.00059 | 25.715 | .04848 | .00455 | .32452 | .00085 | .00443 | 7.9531 | .00136 | .02214 |
| #2 | -.00071 | 25.631 | .04805 | .00420 | .32428 | .00088 | .00223 | 7.9339 | .00146 | .02242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31886** | **.07055** | **57.564** | **2.6948** | **.03322** | **8.6813** | **1.4987** | **.00271** | **.31880** | **.06307** |
| Stddev | .00047 | .00025 | .030 | .0481 | .00401 | .0072 | .0003 | .00021 | .00104 | .00031 |
| %RSD | .14758 | .36076 | .05149 | 1.7859 | 12.079 | .08237 | .01747 | 7.6530 | .32471 | .49062 |
| #1 | .31920 | .07073 | 57.585 | 2.6608 | .03606 | 8.6863 | 1.4989 | .00286 | .31953 | .06329 |
| #2 | .31853 | .07037 | 57.544 | 2.7288 | .03038 | 8.6762 | 1.4986 | .00256 | .31807 | .06285 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5502** | **.03933** | **.71506** | **-.00286** | **-.00073** | **.52085** | **1.1146** | **.00120** | **.05707** | **.00904** |
| Stddev | .0088 | .00099 | .00079 | .00136 | .00318 | .00828 | .0177 | .00054 | .00004 | .00120 |
| %RSD | .56646 | 2.5175 | .11079 | 47.421 | 437.05 | 1.5891 | 1.5891 | 44.919 | .07760 | 13.336 |
| #1 | 1.5564 | .04003 | .71562 | -.00382 | -.00298 | .52670 | 1.1271 | .00158 | .05704 | .00818 |
| #2 | 1.5440 | .03863 | .71450 | -.00190 | .00152 | .51500 | 1.1021 | .00082 | .05710 | .00989 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0575** | **.00008** | W **-.07968** | **.13190** | **.20784** | **.02849** |
| Stddev | .0024 | .00128 | .05110 | .00074 | .00053 | .00071 |
| %RSD | .11590 | 1589.5 | 64.125 | .56045 | .25291 | 2.4916 |
| #1 | 2.0558 | -.00082 | -.04355 | .13243 | .20747 | .02798 |
| #2 | 2.0592 | .00099 | -.11581 | .13138 | .20821 | .02899 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8816.5** | **108520.** | **8908.1** |
| Stddev | 9.6 | 297. | 58.9 |
| %RSD | .10848 | .27355 | .66097 |
| #1 | 8809.8 | 108730. | 8866.5 |
| #2 | 8823.3 | 108310. | 8949.7 |

Sample Name: 280-45300-a-1-b du  Acquired: 8/15/2013 16:23:42  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186955 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00122** | **119.66** | **.19897** | **.01124** | **1.1530** | **.00423** | **-.00108** | **35.192** | **.00672** | **.07885** |
| Stddev | .00009 | .12 | .00120 | .00039 | .0011 | .00002 | .00108 | .004 | .00013 | .00003 |
| %RSD | 7.0064 | .10063 | .60094 | 3.4635 | .09579 | .52990 | 100.22 | .01024 | 1.9934 | .03323 |
| #1 | -.00116 | 119.57 | .19982 | .01151 | 1.1537 | .00421 | -.00184 | 35.190 | .00681 | .07887 |
| #2 | -.00128 | 119.74 | .19813 | .01096 | 1.1522 | .00425 | -.00031 | 35.195 | .00662 | .07883 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4687** | **.33991** | **260.01** | **12.191** | **.16607** | **39.981** | **3.2899** | **.01237** | **1.3325** | **.28236** |
| Stddev | .0009 | .00098 | .23 | .006 | .00423 | .108 | .0287 | .00015 | .0023 | .00015 |
| %RSD | .06284 | .28708 | .08798 | .04589 | 2.5491 | .26990 | .87112 | 1.2462 | .16924 | .05398 |
| #1 | 1.4694 | .33922 | 260.17 | 12.187 | .16308 | 39.905 | 3.2696 | .01226 | 1.3309 | .28247 |
| #2 | 1.4681 | .34060 | 259.85 | 12.195 | .16907 | 40.057 | 3.3101 | .01248 | 1.3341 | .28225 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.1476** | **.17185** | **3.2441** | **-.00049** | **.00171** | **2.7804** | **5.9500** | **.01127** | **.24187** | **.05327** |
| Stddev | .0092 | .00030 | .0035 | .00081 | .00264 | .0786 | .1683 | .00043 | .00041 | .00148 |
| %RSD | .12918 | .17447 | .10653 | 166.26 | 154.38 | 2.8280 | 2.8280 | 3.7896 | .16830 | 2.7829 |
| #1 | 7.1411 | .17206 | 3.2465 | .00009 | .00358 | 2.8360 | 6.0690 | .01097 | .24158 | .05432 |
| #2 | 7.1541 | .17163 | 3.2416 | -.00106 | -.00016 | 2.7248 | 5.8310 | .01157 | .24216 | .05222 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.3486** | **-.00217** | F **-.25101** | **.61632** | **.91802** | **.11279** |
| Stddev | .0147 | .00086 | .02143 | .00040 | .00073 | .00312 |
| %RSD | .15743 | 39.851 | 8.5377 | .06419 | .07941 | 2.7677 |
| #1 | 9.3590 | -.00278 | -.26617 | .61660 | .91750 | .11058 |
| #2 | 9.3382 | -.00156 | -.23586 | .61604 | .91853 | .11499 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9386.8** | **113450.** | **9710.5** |
| Stddev | 24.0 | 217. | 52.3 |
| %RSD | .25603 | .19137 | .53838 |
| #1 | 9369.8 | 113610. | 9673.5 |
| #2 | 9403.8 | 113300. | 9747.4 |

Sample Name: 280-45300-a-1-c ms  Acquired: 8/15/2013 16:26:10  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186955 SOIL 6010B WC

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04219** | **150.11** | **1.0715** | **.81544** | **3.1923** | **.04681** | F **1.7935** | **89.189** | **.09805** | **.50908** |
| Stddev | .00103 | .33 | .0062 | .00427 | .0026 | .00004 | .0019 | .220 | .00038 | .00245 |
| %RSD | 2.4296 | .21947 | .57494 | .52405 | .08019 | .09375 | .10563 | .24613 | .38910 | .48030 |
| #1 | .04147 | 150.34 | 1.0758 | .81242 | 3.1941 | .04684 | 1.7922 | 89.345 | .09778 | .50736 |
| #2 | .04292 | 149.88 | 1.0671 | .81846 | 3.1905 | .04678 | 1.7949 | 89.034 | .09832 | .51081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.6931** | **.56601** | **268.79** | **61.119** | **1.0432** | **86.986** | **5.4680** | **.83191** | **47.449** | **.70311** |
| Stddev | .0043 | .00088 | .75 | .024 | .0035 | .448 | .0254 | .00333 | .184 | .00270 |
| %RSD | .25708 | .15471 | .27890 | .03961 | .33386 | .51493 | .46370 | .40079 | .38879 | .38350 |
| #1 | 1.6900 | .56663 | 269.32 | 61.136 | 1.0457 | 86.670 | 5.4500 | .82955 | 47.319 | .70120 |
| #2 | 1.6962 | .56539 | 268.26 | 61.102 | 1.0407 | 87.303 | 5.4859 | .83427 | 47.580 | .70502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **15.872** | **.58962** | **3.4643** | **.18551** | **1.6773** | **5.2297** | **11.191** | **1.5819** | **1.2032** | **.86482** |
| Stddev | .054 | .00174 | .0146 | .00113 | .0007 | .0193 | .041 | .0032 | .0035 | .00115 |
| %RSD | .33782 | .29455 | .42188 | .60822 | .04111 | .36832 | .36832 | .20430 | .28790 | .13288 |
| #1 | 15.834 | .58839 | 3.4540 | .18631 | 1.6768 | 5.2433 | 11.221 | 1.5796 | 1.2056 | .86401 |
| #2 | 15.910 | .59084 | 3.4747 | .18471 | 1.6778 | 5.2160 | 11.162 | 1.5842 | 1.2007 | .86564 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.874** | **1.5893** | **1.5273** | **1.1229** | **1.3813** | **.50287** |
| Stddev | .172 | .0040 | .0341 | .0003 | .0024 | .00154 |
| %RSD | 1.4514 | .25332 | 2.2323 | .02478 | .17547 | .30602 |
| #1 | 11.996 | 1.5865 | 1.5514 | 1.1231 | 1.3830 | .50178 |
| #2 | 11.753 | 1.5922 | 1.5032 | 1.1228 | 1.3796 | .50396 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | |
| Low Limit | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9248.5** | **111940.** | **9697.5** |
| Stddev | 15.5 | 59. | 48.7 |
| %RSD | .16774 | .05280 | .50228 |
| #1 | 9259.5 | 111890. | 9663.1 |
| #2 | 9237.6 | 111980. | 9731.9 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 16:28:38 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **50.231** | **.00175** | **.00403** | **.00108** | **.00000** | **1.0263** | **-.00567** | **.00003** | **.00002** | **.00001** | **.00279** | **50.304** |
| Stddev | .00124 | .233 | .00161 | .00008 | .00041 | .0001 | .0049 | .00383 | .00009 | .00003 | .00010 | .00025 | .419 |
| %RSD | 224.27 | .46428 | 91.980 | 1.9544 | 38.181 | 3109.5 | .47802 | 67.588 | 260.01 | 143.72 | 2004.0 | 9.0144 | .83375 |
| #1 | .00143 | 50.066 | .00061 | .00397 | .00079 | .00006 | 1.0298 | -.00296 | .00010 | .00004 | .00008 | .00297 | 50.007 |
| #2 | -.00032 | 50.396 | .00288 | .00408 | .00137 | -.00006 | 1.0229 | -.00839 | -.00003 | .00000 | -.00007 | .00261 | 50.601 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14033** | **-.00005** | **.00032** | **.00017** | **.00087** | **253.28** | **.00068** | **.00333** | **.00121** | **4.9696** | **-.00018** | **-.00290** | **-.00179** |
| Stddev | .02431 | .00170 | .00453 | .00005 | .00031 | .78 | .00058 | .00074 | .00154 | .0056 | .00163 | .00190 | .00683 |
| %RSD | 17.326 | 3155.0 | 1422.5 | 26.208 | 35.395 | .30978 | 84.860 | 22.249 | 127.61 | .11351 | 906.79 | 65.445 | 381.84 |
| #1 | .15752 | -.00126 | .00352 | .00014 | .00109 | 252.73 | .00027 | .00280 | .00230 | 4.9736 | -.00133 | -.00156 | .00304 |
| #2 | .12314 | .00115 | -.00288 | .00021 | .00065 | 253.84 | .00108 | .00385 | .00012 | 4.9656 | .00097 | -.00424 | -.00661 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00383** | **-.00036** | **.00044** | **4.8618** | **.00089** | **.00217** | **10.268** | **.00067** | **.00096** | **.02851** |
| Stddev | .01461 | .00083 | .00004 | .0100 | .00058 | .00078 | .040 | .00043 | .00014 | .00045 |
| %RSD | 381.84 | 227.24 | 9.8055 | .20640 | 65.301 | 35.760 | .39356 | 63.185 | 14.573 | 1.5719 |
| #1 | .00650 | .00022 | .00041 | 4.8689 | .00048 | .00162 | 10.296 | .00098 | .00086 | .02820 |
| #2 | -.01416 | -.00095 | .00047 | 4.8547 | .00130 | .00272 | 10.239 | .00037 | .00106 | .02883 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8334.0** | **101860.** | **8589.0** |
| Stddev | .3 | 400. | 23.7 |
| %RSD | .00354 | .39263 | .27610 |
| #1 | 8334.2 | 102140. | 8572.2 |
| #2 | 8333.8 | 101580. | 8605.8 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 16:31:00 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49470** | **.50896** | **.99755** | **.50739** | **.50255** | **.49807** | **.00441** | **5.0226** | **.50491** | **.50364** | **.50147** | **.49816** | **2.5395** |
| Stddev | .00005 | .00044 | .00058 | .00051 | .00204 | .00084 | .00079 | .0086 | .00065 | .00005 | .00046 | .00042 | .0037 |
| %RSD | .01009 | .08606 | .05851 | .10089 | .40620 | .16954 | 17.891 | .17207 | .12870 | .01044 | .09260 | .08502 | .14421 |
| #1 | .49473 | .50865 | .99713 | .50703 | .50399 | .49867 | .00496 | 5.0288 | .50445 | .50368 | .50114 | .49846 | 2.5420 |
| #2 | .49466 | .50927 | .99796 | .50775 | .50111 | .49748 | .00385 | 5.0165 | .50537 | .50361 | .50180 | .49786 | 2.5369 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.898** | **.98272** | **19.366** | **.48945** | **.50277** | **5.0924** | **.50468** | **.99859** | **1.0118** | **-.00919** | **1.0041** | **1.0004** | **4.9697** |
| Stddev | .093 | .00755 | .017 | .00108 | .00013 | .0337 | .00054 | .00255 | .0007 | .00075 | .0049 | .0023 | .0108 |
| %RSD | .18561 | .76818 | .08946 | .22017 | .02513 | .66152 | .10670 | .25493 | .06804 | 8.1279 | .49241 | .23155 | .21817 |
| #1 | 49.964 | .98806 | 19.353 | .48869 | .50286 | 5.1163 | .50430 | .99679 | 1.0123 | -.00972 | 1.0076 | 1.0020 | 4.9774 |
| #2 | 49.833 | .97738 | 19.378 | .49021 | .50268 | 5.0686 | .50506 | 1.0004 | 1.0114 | -.00866 | 1.0006 | .99875 | 4.9620 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.635** | **1.0103** | **.49640** | **-.00509** | **.49051** | **1.0248** | **-.00989** | **.49567** | **.48923** | **.50064** |
| Stddev | .023 | .0027 | .00012 | .00049 | .00115 | .0037 | .01792 | .00178 | .00011 | .00215 |
| %RSD | .21817 | .26232 | .02373 | 9.5878 | .23532 | .35791 | 181.11 | .35818 | .02343 | .43029 |
| #1 | 10.652 | 1.0122 | .49632 | -.00544 | .48970 | 1.0274 | .00278 | .49442 | .48931 | .50216 |
| #2 | 10.619 | 1.0084 | .49648 | -.00475 | .49133 | 1.0223 | -.02256 | .49693 | .48915 | .49912 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8528.7** | **105230.** | **8658.0** |
| Stddev | 9.3 | 410. | 70.6 |
| %RSD | .10863 | .38935 | .81554 |
| #1 | 8522.2 | 105520. | 8608.0 |
| #2 | 8535.3 | 104940. | 8707.9 |

Sample Name: CCB Acquired: 8/15/2013 16:33:07 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **.00165** | **-.00017** | **.00181** | **.00044** | **-.00001** | **.00395** | **-.00418** | **.00001** | **-.00007** | **-.00008** |
| Stddev | .00047 | .00011 | .00209 | .00039 | .00028 | .00001 | .00029 | .00163 | .00017 | .00004 | .00010 |
| %RSD | 64.026 | 6.7859 | 1257.1 | 21.303 | 62.727 | 66.630 | 7.4268 | 38.924 | 2122.3 | 52.978 | 113.27 |
| #1 | .00106 | .00157 | .00131 | .00208 | .00025 | -.00001 | .00415 | -.00533 | .00013 | -.00010 | -.00015 |
| #2 | .00040 | .00173 | -.00165 | .00154 | .00064 | -.00002 | .00374 | -.00303 | -.00011 | -.00004 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00019** | **.00389** | **.11125** | W **-.00355** | **.00077** | **.00009** | **.00061** | **.05003** | **.00040** | **.00049** | **-.00048** |
| Stddev | .00040 | .00077 | .02384 | .00317 | .00023 | .00008 | .00041 | .00582 | .00009 | .00039 | .00096 |
| %RSD | 208.69 | 19.827 | 21.429 | 89.353 | 30.195 | 87.162 | 66.868 | 11.624 | 22.801 | 80.034 | 200.30 |
| #1 | -.00048 | .00444 | .09440 | -.00579 | .00061 | .00004 | .00032 | .04591 | .00047 | .00021 | -.00115 |
| #2 | .00009 | .00335 | .12811 | -.00131 | .00094 | .00015 | .00090 | .05414 | .00034 | .00076 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | | | | |
| Low Limit | | | | -.00261 | | | | | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00280** | W **.00588** | **.00306** | **.00858** | **.01836** | **-.00047** | **.00000** | **.00077** | **.00035** | **.00017** | **.00756** |
| Stddev | .00196 | .00029 | .00351 | .00155 | .00332 | .00056 | .00003 | .00017 | .00014 | .00044 | .00896 |
| %RSD | 70.036 | 4.9512 | 114.79 | 18.112 | 18.112 | 119.01 | 3212.0 | 21.873 | 39.748 | 253.25 | 118.60 |
| #1 | -.00141 | .00567 | .00058 | .00748 | .01600 | -.00086 | .00002 | .00065 | .00025 | .00048 | .01390 |
| #2 | -.00419 | .00608 | .00554 | .00968 | .02071 | -.00007 | -.00002 | .00088 | .00045 | -.00014 | .00122 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00020** | **.00291** | W **.00313** |
| Stddev | .00004 | .00037 | .00023 |
| %RSD | 19.057 | 12.851 | 7.4425 |
| #1 | -.00017 | .00317 | .00329 |
| #2 | -.00023 | .00264 | .00297 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8439.1** | **104730.** | **8448.1** |
| Stddev | 25.1 | 640. | 23.6 |
| %RSD | .29799 | .61074 | .27906 |
| #1 | 8456.8 | 105180. | 8464.7 |
| #2 | 8421.3 | 104280. | 8431.4 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 16:35:23 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01068** | **.10509** | **.01478** | **.09523** | **.01060** | **.00103** | **.11215** | **.20610** | **.00522** | **.01042** | **.01024** | **.01526** | **.10403** |
| Stddev | .00040 | .00052 | .00046 | .00015 | .00018 | .00003 | .00053 | .00402 | .00032 | .00006 | .00003 | .00020 | .00137 |
| %RSD | 3.7550 | .49190 | 3.1149 | .15743 | 1.7163 | 2.9309 | .47088 | 1.9493 | 6.0927 | .57487 | .29593 | 1.3059 | 1.3153 |
| #1 | .01039 | .10472 | .01511 | .09533 | .01073 | .00101 | .11178 | .20326 | .00544 | .01047 | .01026 | .01540 | .10306 |
| #2 | .01096 | .10545 | .01446 | .09512 | .01047 | .00105 | .11253 | .20894 | .00499 | .01038 | .01022 | .01512 | .10499 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0864** | **.01149** | **.19984** | **.01011** | **.01974** | **1.0685** | **.04161** | **2.8101** | **.00897** | **-.00606** | F **.00608** | **.01621** | **.50537** |
| Stddev | .0620 | .00132 | .00122 | .00003 | .00023 | .0016 | .00038 | .0041 | .00002 | .00162 | .00153 | .00046 | .01247 |
| %RSD | 2.0085 | 11.468 | .61263 | .28410 | 1.1600 | .14727 | .92525 | .14727 | .23274 | 26.666 | 25.214 | 2.8343 | 2.4675 |
| #1 | 3.1303 | .01056 | .19897 | .01009 | .01990 | 1.0674 | .04188 | 2.8072 | .00899 | -.00492 | .00717 | .01654 | .51419 |
| #2 | 3.0426 | .01242 | .20070 | .01013 | .01958 | 1.0696 | .04133 | 2.8130 | .00896 | -.00721 | .00500 | .01589 | .49655 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0815** | **.10093** | **.01011** | **.01256** | **.00997** | **.01619** | **.07075** | **.00962** | **.02096** | **.01642** |
| Stddev | .0267 | .00085 | .00003 | .00031 | .00043 | .00158 | .02625 | .00015 | .00005 | .00190 |
| %RSD | 2.4675 | .84281 | .31923 | 2.4646 | 4.3020 | 9.7770 | 37.108 | 1.5379 | .21663 | 11.574 |
| #1 | 1.1004 | .10153 | .01014 | .01234 | .00967 | .01731 | .05219 | .00951 | .02093 | .01776 |
| #2 | 1.0626 | .10033 | .01009 | .01278 | .01027 | .01507 | .08931 | .00972 | .02100 | .01508 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8515.6** | **105800.** | **8527.1** |
| Stddev | 19.0 | 326. | 71.7 |
| %RSD | .22337 | .30829 | .84063 |
| #1 | 8529.0 | 106030. | 8577.8 |
| #2 | 8502.1 | 105570. | 8476.4 |

Sample Name: mb 280-187079/1-a  Acquired: 8/15/2013 16:37:40  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.02299** | **.00065** | **.00726** | **.00071** | **.00003** | **-.00535** | F **.28284** | **.00040** | **-.00024** |
| Stddev | .00074 | .00000 | .00520 | .00023 | .00010 | .00006 | .00459 | .00035 | .00000 | .00030 |
| %RSD | 132.51 | .00556 | 801.69 | 3.2299 | 14.151 | 223.36 | 85.749 | .12376 | .17258 | 124.84 |
| #1 | .00108 | .02299 | .00433 | .00710 | .00078 | .00007 | -.00211 | .28259 | .00040 | -.00045 |
| #2 | .00004 | .02299 | -.00303 | .00743 | .00064 | -.00002 | -.00860 | .28309 | .00040 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .20000 | | |
| Low Limit | | | | | | | | -.20000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00138** | **-.00034** | **.01867** | **.66817** | **-.00294** | **.03945** | F **.01515** | **.00132** | W **.94627** | **-.00015** |
| Stddev | .00035 | .00002 | .00430 | .01302 | .00495 | .00177 | .00002 | .00032 | .00676 | .00014 |
| %RSD | 25.492 | 4.5147 | 23.061 | 1.9487 | 168.11 | 4.4772 | .10577 | 24.555 | .71480 | 89.752 |
| #1 | .00113 | -.00035 | .01562 | .65896 | -.00644 | .03820 | .01514 | .00109 | .95105 | -.00006 |
| #2 | .00162 | -.00033 | .02171 | .67737 | .00056 | .04070 | .01517 | .00155 | .94148 | -.00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | .01000 | | .50000 | |
| Low Limit | | | | | | | -.01000 | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00391** | **-.00139** | **.03865** | **-.00030** | **.00564** | **.03606** | **.07716** | **.00801** | **.00234** | **.00277** |
| Stddev | .00011 | .00031 | .00083 | .00111 | .00145 | .00157 | .00336 | .00197 | .00010 | .00012 |
| %RSD | 2.8387 | 22.421 | 2.1598 | 372.35 | 25.704 | 4.3501 | 4.3501 | 24.560 | 4.2784 | 4.4785 |
| #1 | .00383 | -.00161 | .03806 | .00049 | .00462 | .03495 | .07479 | .00662 | .00241 | .00269 |
| #2 | .00399 | -.00117 | .03924 | -.00108 | .00667 | .03716 | .07953 | .00940 | .00227 | .00286 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **-.00325** | W **-.05565** | **.00028** | **.00264** | **.00393** |
| Stddev | .00000 | .00161 | .00226 | .00006 | .00010 | .00010 |
| %RSD | .02357 | 49.492 | 4.0540 | 22.038 | 3.8768 | 2.5504 |
| #1 | .00061 | -.00439 | -.05724 | .00032 | .00257 | .00400 |
| #2 | .00061 | -.00211 | -.05405 | .00023 | .00271 | .00385 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7857.0** | **99203.** | **7979.8** |
| Stddev | 58.1 | 474. | 25.2 |
| %RSD | .73886 | .47816 | .31532 |
| #1 | 7816.0 | 98867. | 7997.6 |
| #2 | 7898.1 | 99538. | 7962.1 |

Sample Name: lcs 280-187079/2-a  Acquired: 8/15/2013 16:39:55  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .87785 | .99949 | .93722 | .85167 | 1.0182 | .98593 | -.01192 | 5.3871 | .93429 | .99691 |
| Stddev | .00161 | .00337 | .00378 | .00248 | .0066 | .00490 | .00047 | .0389 | .00029 | .00013 |
| %RSD | .18330 | .33668 | .40298 | .29086 | .65122 | .49667 | 3.9231 | .72264 | .03103 | .01327 |
| #1 | .87671 | .99711 | .93989 | .84992 | 1.0229 | .98939 | -.01159 | 5.4146 | .93409 | .99700 |
| #2 | .87899 | 1.0019 | .93455 | .85342 | 1.0135 | .98247 | -.01225 | 5.3595 | .93450 | .99681 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0541 | .99202 | 1.1242 | 5.5634 | .00104 | 4.4938 | 1.0137 | 1.0553 | 5.9410 | 1.0297 |
| Stddev | .0001 | .00190 | .0020 | .0421 | .00319 | .0071 | .0018 | .0001 | .0556 | .0010 |
| %RSD | .00779 | .19186 | .18174 | .75622 | 307.67 | .15759 | .17467 | .01108 | .93634 | .10030 |
| #1 | 1.0541 | .99068 | 1.1256 | 5.5931 | .00329 | 4.4888 | 1.0125 | 1.0552 | 5.9803 | 1.0304 |
| #2 | 1.0540 | .99337 | 1.1227 | 5.5336 | -.00122 | 4.4988 | 1.0150 | 1.0554 | 5.9016 | 1.0289 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .48235 | 1.0118 | 33.224 | .88669 | .91440 | .95368 | 2.0409 | 1.0106 | .00854 | .00096 |
| Stddev | .00143 | .0013 | .032 | .00296 | .00025 | .01185 | .0254 | .0035 | .00011 | .00145 |
| %RSD | .29604 | .12446 | .09527 | .33342 | .02757 | 1.2429 | 1.2429 | .34794 | 1.2867 | 151.56 |
| #1 | .48134 | 1.0109 | 33.247 | .88460 | .91422 | .94529 | 2.0229 | 1.0081 | .00862 | -.00007 |
| #2 | .48336 | 1.0127 | 33.202 | .88878 | .91457 | .96206 | 2.0588 | 1.0130 | .00847 | .00199 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .97510 | W -.01243 | -.02240 | 1.0125 | .94924 | .00188 |
| Stddev | .00125 | .00134 | .02432 | .0062 | .00670 | .00116 |
| %RSD | .12830 | 10.741 | 108.58 | .61674 | .70552 | 61.900 |
| #1 | .97422 | -.01149 | -.00520 | 1.0080 | .94450 | .00105 |
| #2 | .97599 | -.01338 | -.03960 | 1.0169 | .95398 | .00270 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8259.7 | 104140. | 8338.0 |
| Stddev | 2.0 | 69. | 89.2 |
| %RSD | .02471 | .06581 | 1.0700 |
| #1 | 8261.1 | 104180. | 8274.9 |
| #2 | 8258.2 | 104090. | 8401.1 |

Sample Name: 280-44975-a-2-h  Acquired: 8/15/2013 16:42:05  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.01535** | **.00782** | **.02096** | **.04166** | **-.00003** | **-.01204** | **4.7862** | **.02114** | **.00021** |
| Stddev | .00024 | .00074 | .00239 | .00034 | .00001 | .00002 | .00105 | .0302 | .00013 | .00035 |
| %RSD | 44.538 | 4.8519 | 30.518 | 1.6395 | .02181 | 72.379 | 8.7070 | .63161 | .62682 | 170.60 |
| #1 | .00038 | .01483 | .00613 | .02072 | .04166 | -.00001 | -.01130 | 4.8075 | .02104 | -.00004 |
| #2 | .00072 | .01588 | .00950 | .02121 | .04167 | -.00004 | -.01278 | 4.7648 | .02123 | .00046 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00166** | **.04772** | **.04675** | **1.1156** | **.00105** | **.46978** | **.00420** | **.01805** | **1.4219** | **.00003** |
| Stddev | .00086 | .00002 | .00093 | .0610 | .00065 | .00063 | .00001 | .00101 | .0119 | .00085 |
| %RSD | 51.726 | .04246 | 1.9831 | 5.4640 | 61.396 | .13419 | .12504 | 5.5894 | .83920 | 2961.0 |
| #1 | .00105 | .04770 | .04610 | 1.1587 | .00151 | .47022 | .00420 | .01734 | 1.4135 | -.00057 |
| #2 | .00226 | .04773 | .04741 | 1.0725 | .00060 | .46933 | .00421 | .01877 | 1.4304 | .00063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.0116** | **.02962** | **7.0631** | **-.00009** | **.01910** | **.10725** | **.22951** | **.00645** | **.00419** | **.00178** |
| Stddev | .0030 | .00005 | .0184 | .00018 | .00348 | .02570 | .05500 | .00027 | .00010 | .00096 |
| %RSD | .15028 | .16341 | .26008 | 192.38 | 18.207 | 23.963 | 23.963 | 4.2464 | 2.3285 | 53.842 |
| #1 | 2.0138 | .02965 | 7.0501 | -.00022 | .02156 | .08907 | .19062 | .00625 | .00412 | .00246 |
| #2 | 2.0095 | .02958 | 7.0761 | .00003 | .01664 | .12542 | .26840 | .00664 | .00425 | .00110 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **-.00630** | **-.00432** | **-.00044** | **2.4698** | **.00170** |
| Stddev | .00022 | .00040 | .03310 | .00001 | .0074 | .00180 |
| %RSD | 17.694 | 6.3219 | 765.88 | 1.8008 | .29806 | 106.03 |
| #1 | .00110 | -.00602 | -.02773 | -.00044 | 2.4646 | .00042 |
| #2 | .00141 | -.00658 | .01909 | -.00045 | 2.4750 | .00297 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8427.1** | **105580.** | **8550.4** |
| Stddev | 5.5 | 711. | 62.1 |
| %RSD | .06584 | .67338 | .72582 |
| #1 | 8423.2 | 106080. | 8506.5 |
| #2 | 8431.0 | 105080. | 8594.3 |

Sample Name: 280-44975-a-2-hSD@5 Acquired: 8/15/2013 16:44:21 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **.01208** | **.00255** | **.00541** | **.00849** | **.00001** | **-.00079** | **.94012** | **.00438** | **-.00004** |
| Stddev | .00046 | .00029 | .00230 | .00018 | .00013 | .00014 | .00031 | .00509 | .00008 | .00014 |
| %RSD | 73.611 | 2.4201 | 90.319 | 3.3405 | 1.5663 | 1167.8 | 39.583 | .54185 | 1.7441 | 322.90 |
| #1 | .00096 | .01229 | .00418 | .00528 | .00840 | .00011 | -.00102 | .94373 | .00432 | -.00015 |
| #2 | .00030 | .01187 | .00092 | .00554 | .00859 | -.00008 | -.00057 | .93652 | .00443 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00873** | **.02082** | **.26590** | **-.00158** | **.10178** | **.00283** | **.00324** | **.31388** | **.00006** |
| Stddev | .00004 | .00018 | .00197 | .06556 | .00169 | .00090 | .00000 | .00016 | .01677 | .00002 |
| %RSD | 15.233 | 2.0225 | 9.4474 | 24.655 | 107.21 | .88711 | .00094 | 4.9106 | 5.3429 | 29.653 |
| #1 | .00031 | .00860 | .02221 | .31226 | -.00038 | .10114 | .00283 | .00313 | .30202 | .00005 |
| #2 | .00025 | .00885 | .01943 | .21954 | -.00277 | .10241 | .00283 | .00336 | .32574 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40932** | **.00551** | **1.4460** | **-.00388** | **.00641** | **.02787** | **.05964** | **.00116** | **.00096** | **.00149** |
| Stddev | .00115 | .00018 | .0054 | .00104 | .00016 | .00073 | .00155 | .00035 | .00005 | .00016 |
| %RSD | .27999 | 3.2268 | .37132 | 26.791 | 2.4929 | 2.6022 | 2.6022 | 29.865 | 4.9547 | 10.962 |
| #1 | .41013 | .00538 | 1.4498 | -.00315 | .00652 | .02838 | .06074 | .00092 | .00099 | .00160 |
| #2 | .40851 | .00564 | 1.4422 | -.00462 | .00629 | .02736 | .05854 | .00141 | .00092 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **-.00092** | **-.01912** | **-.00056** | **.48361** | **.00285** |
| Stddev | .00006 | .00076 | .00799 | .00048 | .00013 | .00204 |
| %RSD | 8.1964 | 82.473 | 41.795 | 85.669 | .02622 | 71.467 |
| #1 | .00071 | -.00146 | -.01347 | -.00090 | .48370 | .00429 |
| #2 | .00080 | -.00038 | -.02477 | -.00022 | .48352 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9123.3** | **115930.** | **9217.6** |
| Stddev | 46.2 | 364. | 17.2 |
| %RSD | .50658 | .31392 | .18625 |
| #1 | 9156.0 | 116180. | 9229.7 |
| #2 | 9090.6 | 115670. | 9205.5 |

Sample Name: 280-44975-a-2-i ms  Acquired: 8/15/2013 16:46:34  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .93242 | 1.0546 | 1.0510 | .91925 | 1.1239 | W 1.0402 | -.01097 | 10.262 | 1.0166 | W 1.0664 |
| Stddev | .00026 | .0020 | .0010 | .00078 | .0019 | .0021 | .00075 | .004 | .0013 | .0010 |
| %RSD | .02751 | .19381 | .10029 | .08432 | .17052 | .20535 | 6.8557 | .03418 | .12852 | .09678 |
| #1 | .93260 | 1.0532 | 1.0518 | .91980 | 1.1253 | 1.0417 | -.01044 | 10.264 | 1.0175 | 1.0656 |
| #2 | .93224 | 1.0560 | 1.0503 | .91870 | 1.1226 | 1.0387 | -.01150 | 10.259 | 1.0157 | 1.0671 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | 1.0000 | | | | 1.0000 |
| Low Limit | -.01000 | | | | | -.00200 | | | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.1272 | 1.0944 | 1.1849 | 6.3522 | .00064 | 5.2524 | 1.0822 | 1.1481 | 6.6047 | 1.1048 |
| Stddev | .0001 | .0003 | .0058 | .0014 | .00129 | .0069 | .0006 | .0005 | .0022 | .0015 |
| %RSD | .01317 | .02285 | .48844 | .02212 | 203.38 | .13231 | .05806 | .04485 | .03317 | .13443 |
| #1 | 1.1271 | 1.0946 | 1.1890 | 6.3532 | -.00028 | 5.2573 | 1.0817 | 1.1484 | 6.6031 | 1.1037 |
| #2 | 1.1273 | 1.0943 | 1.1808 | 6.3512 | .00155 | 5.2475 | 1.0826 | 1.1477 | 6.6062 | 1.1058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 2.9456 | 1.1098 | 53.798 | .95951 | 1.0851 | 1.1124 | 2.3806 | 1.0911 | .01204 | .00102 |
| Stddev | .0087 | .0004 | .155 | .00435 | .0081 | .0055 | .0118 | .0016 | .00010 | .00119 |
| %RSD | .29464 | .03666 | .28852 | .45351 | .75137 | .49499 | .49499 | .14271 | .85807 | 116.92 |
| #1 | 2.9517 | 1.1095 | 53.908 | .96258 | 1.0908 | 1.1163 | 2.3889 | 1.0922 | .01211 | .00018 |
| #2 | 2.9395 | 1.1101 | 53.688 | .95643 | 1.0793 | 1.1085 | 2.3722 | 1.0900 | .01197 | .00186 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0356 | W -.01443 | -.01737 | 1.0844 | 3.5043 | .00279 |
| Stddev | .0003 | .00006 | .02498 | .0032 | .0091 | .00064 |
| %RSD | .03165 | .42628 | 143.84 | .29531 | .25905 | 23.056 |
| #1 | 1.0358 | -.01439 | .00030 | 1.0867 | 3.5108 | .00233 |
| #2 | 1.0354 | -.01447 | -.03503 | 1.0822 | 3.4979 | .00324 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8685.8 | 109190. | 9090.6 |
| Stddev | 14.5 | 1017. | 11.8 |
| %RSD | .16645 | .93171 | .12946 |
| #1 | 8675.6 | 108470. | 9098.9 |
| #2 | 8696.1 | 109910. | 9082.3 |

Sample Name: 280-44975-a-2-j msd  Acquired: 8/15/2013 16:48:42  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .95427 | 1.0703 | 1.0602 | .93615 | 1.1320 | W 1.0424 | -.00730 | 10.174 | 1.0296 | W 1.0731 |
| Stddev | .00281 | .0001 | .0022 | .00007 | .0060 | .0047 | .00135 | .050 | .0003 | .0018 |
| %RSD | .29411 | .00566 | .20288 | .00733 | .52824 | .45593 | 18.438 | .48864 | .02545 | .16847 |
| #1 | .95625 | 1.0704 | 1.0587 | .93610 | 1.1277 | 1.0391 | -.00825 | 10.139 | 1.0298 | 1.0743 |
| #2 | .95228 | 1.0703 | 1.0618 | .93620 | 1.1362 | 1.0458 | -.00635 | 10.209 | 1.0294 | 1.0718 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | .10000 | | | | | 1.0000 | | | | 1.0000 |
| Low Limit | -.01000 | | | | | -.00200 | | | | -.01000 |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.1302 | 1.1050 | 1.2071 | 6.1773 | .00053 | 5.3599 | 1.0949 | 1.1487 | 6.4749 | 1.1123 |
| Stddev | .0008 | .0017 | .0076 | .0241 | .00176 | .0033 | .0024 | .0006 | .0030 | .0001 |
| %RSD | .07159 | .15579 | .63407 | .38969 | 330.31 | .06153 | .21666 | .04871 | .04580 | .00616 |
| #1 | 1.1308 | 1.1062 | 1.2017 | 6.1602 | -.00071 | 5.3623 | 1.0966 | 1.1491 | 6.4728 | 1.1123 |
| #2 | 1.1297 | 1.1038 | 1.2126 | 6.1943 | .00178 | 5.3576 | 1.0932 | 1.1483 | 6.4770 | 1.1122 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 3.1166 | 1.1264 | 64.244 | .98347 | 1.0943 | 1.1518 | 2.4647 | 1.0796 | .01118 | .00097 |
| Stddev | .0173 | .0004 | .106 | .00325 | .0049 | .0111 | .0238 | .0043 | .00029 | .00129 |
| %RSD | .55533 | .03738 | .16575 | .33022 | .44646 | .96565 | .96565 | .40242 | 2.5653 | 133.52 |
| #1 | 3.1289 | 1.1267 | 64.319 | .98577 | 1.0977 | 1.1439 | 2.4479 | 1.0826 | .01098 | .00005 |
| #2 | 3.1044 | 1.1261 | 64.169 | .98117 | 1.0908 | 1.1596 | 2.4816 | 1.0765 | .01139 | .00188 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0406 | W -.01216 | .00549 | 1.0886 | 3.5287 | .00236 |
| Stddev | .0007 | .00060 | .00190 | .0024 | .0037 | .00040 |
| %RSD | .06793 | 4.8944 | 34.696 | .22487 | .10543 | 16.969 |
| #1 | 1.0411 | -.01259 | .00684 | 1.0903 | 3.5314 | .00264 |
| #2 | 1.0401 | -.01174 | .00414 | 1.0869 | 3.5261 | .00208 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 5.0000 | | | | |
| Low Limit | | -.01000 | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8845.4 | 111040. | 9157.8 |
| Stddev | 3.5 | 371. | 5.5 |
| %RSD | .04002 | .33403 | .05977 |
| #1 | 8847.9 | 110780. | 9161.6 |
| #2 | 8842.9 | 111300. | 9153.9 |

Sample Name: 280-45088-a-1-c  Acquired: 8/15/2013 16:50:50  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **1.2277** | **.05598** | **.13872** | **3.9266** | **.00013** | **-.01162** | **34.009** | **.03318** | **.00098** |
| Stddev | .00033 | .0001 | .00148 | .00085 | .0106 | .00007 | .00217 | .000 | .00043 | .00019 |
| %RSD | 130.57 | .00977 | 2.6493 | .60951 | .27080 | 52.858 | 18.672 | .00081 | 1.2921 | 19.185 |
| #1 | .00002 | 1.2277 | .05493 | .13812 | 3.9341 | .00018 | -.01315 | 34.009 | .03288 | .00085 |
| #2 | .00049 | 1.2276 | .05703 | .13932 | 3.9190 | .00008 | -.01008 | 34.009 | .03348 | .00112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04204** | **3.4118** | **24.371** | **1.9960** | **-.00086** | **1.5725** | **.19223** | **.39857** | **2.2526** | **.03481** |
| Stddev | .00029 | .0009 | .052 | .0958 | .00221 | .0090 | .00059 | .00184 | .0096 | .00008 |
| %RSD | .67922 | .02569 | .21185 | 4.7970 | 256.95 | .57054 | .30490 | .46177 | .42558 | .24204 |
| #1 | .04183 | 3.4112 | 24.407 | 1.9283 | -.00242 | 1.5789 | .19265 | .39727 | 2.2594 | .03487 |
| #2 | .04224 | 3.4124 | 24.334 | 2.0637 | .00070 | 1.5662 | .19182 | .39987 | 2.2458 | .03475 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **15.040** | **.57907** | **19.171** | **-.00533** | **.01487** | **6.1750** | **13.215** | **.04770** | **.05199** | **.00000** |
| Stddev | .015 | .00275 | .004 | .00339 | .00179 | .0004 | .001 | .00013 | .00012 | .00475 |
| %RSD | .10251 | .47415 | .02032 | 63.718 | 12.052 | .00700 | .00700 | .27975 | .23963 | 205080. |
| #1 | 15.050 | .57712 | 19.168 | -.00773 | .01613 | 6.1747 | 13.214 | .04780 | .05208 | -.00336 |
| #2 | 15.029 | .58101 | 19.173 | -.00293 | .01360 | 6.1753 | 13.215 | .04761 | .05190 | .00336 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07902** | **-.00616** | **-.04327** | **.00292** | W **13.885** | **.00734** |
| Stddev | .00249 | .00004 | .05926 | .00028 | .058 | .00213 |
| %RSD | 3.1558 | .65205 | 136.95 | 9.7621 | .41941 | 28.964 |
| #1 | .07725 | -.00613 | -.00137 | .00312 | 13.926 | .00884 |
| #2 | .08078 | -.00619 | -.08518 | .00271 | 13.843 | .00584 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 10.000 | |
| Low Limit | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8276.1** | **103990.** | **8492.3** |
| Stddev | 55.3 | 984. | 13.8 |
| %RSD | .66830 | .94635 | .16274 |
| #1 | 8237.0 | 103300. | 8502.1 |
| #2 | 8315.2 | 104690. | 8482.5 |

Sample Name: X  Acquired: 8/15/2013 16:53:01  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187079 3052 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00299** | **-.00034** | **.00200** | **.00023** | **.00004** | **.00069** | **.00200** | **.00026** | **-.00011** |
| Stddev | .00053 | .00026 | .00305 | .00003 | .00031 | .00011 | .00248 | .00092 | .00011 | .00029 |
| %RSD | 281.56 | 8.8019 | 899.78 | 1.4101 | 139.41 | 270.03 | 357.68 | 46.279 | 41.116 | 258.55 |
| #1 | -.00019 | .00318 | .00182 | .00202 | .00000 | -.00004 | .00245 | .00265 | .00034 | -.00032 |
| #2 | .00057 | .00281 | -.00250 | .00198 | .00045 | .00012 | -.00106 | .00134 | .00018 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **-.00044** | **.00961** | **.05182** | **-.00033** | **.00304** | **.00027** | **.00022** | **.02888** | **-.00023** |
| Stddev | .00004 | .00018 | .00025 | .00853 | .00309 | .00112 | .00010 | .00007 | .00140 | .00054 |
| %RSD | 30.832 | 40.198 | 2.6478 | 16.454 | 947.83 | 36.977 | 36.762 | 30.070 | 4.8340 | 238.34 |
| #1 | .00015 | -.00056 | .00943 | .04579 | -.00251 | .00225 | .00034 | .00018 | .02987 | .00015 |
| #2 | .00010 | -.00031 | .00979 | .05785 | .00186 | .00384 | .00020 | .00027 | .02789 | -.00061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00150** | **-.00093** | **.01184** | **-.00295** | **.00138** | **.08813** | **.18859** | **-.00092** | **-.00002** | **.00125** |
| Stddev | .00052 | .00026 | .00159 | .00097 | .00105 | .02354 | .05037 | .00021 | .00009 | .00028 |
| %RSD | 34.755 | 28.318 | 13.406 | 32.991 | 75.995 | 26.710 | 26.710 | 22.970 | 499.58 | 22.177 |
| #1 | .00113 | -.00075 | .01072 | -.00226 | .00213 | .10477 | .22421 | -.00077 | .00004 | .00105 |
| #2 | .00187 | -.00112 | .01296 | -.00363 | .00064 | .07148 | .15297 | -.00107 | -.00008 | .00144 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **-.00005** | **-.04043** | **-.00045** | **.00193** | **.00391** |
| Stddev | .00033 | .00176 | .02902 | .00044 | .00016 | .00040 |
| %RSD | 49.336 | 3472.8 | 71.767 | 96.244 | 8.1884 | 10.345 |
| #1 | .00089 | .00120 | -.01991 | -.00014 | .00204 | .00363 |
| #2 | .00043 | -.00130 | -.06095 | -.00076 | .00182 | .00420 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9101.9** | **115830.** | **9282.9** |
| Stddev | 82.3 | 561. | 49.7 |
| %RSD | .90380 | .48409 | .53487 |
| #1 | 9160.0 | 116220. | 9318.0 |
| #2 | 9043.7 | 115430. | 9247.8 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 16:55:15 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00061** | **49.923** | **.00050** | **.00250** | **.00105** | **-.00002** | **1.0267** | **-.00703** | **-.00011** | **.00036** | **.00012** | **.00380** | **49.759** |
| Stddev | .00050 | .185 | .00031 | .00001 | .00019 | .00002 | .0064 | .00058 | .00013 | .00006 | .00014 | .00067 | .276 |
| %RSD | 81.731 | .36964 | 61.481 | .28561 | 18.504 | 66.772 | .62543 | 8.2439 | 113.94 | 18.188 | 117.53 | 17.598 | .55542 |
| #1 | .00096 | 49.792 | .00028 | .00251 | .00091 | -.00003 | 1.0222 | -.00662 | -.00020 | .00031 | .00021 | .00427 | 49.563 |
| #2 | .00026 | 50.053 | .00072 | .00250 | .00119 | -.00001 | 1.0313 | -.00744 | -.00002 | .00040 | .00002 | .00332 | 49.954 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12247** | **.00159** | **-.00234** | **.00015** | **-.00003** | **252.05** | **.00065** | **.00253** | **.00029** | **4.9712** | **-.00165** | **-.00319** | **.00954** |
| Stddev | .01298 | .00248 | .00187 | .00003 | .00025 | .52 | .00018 | .00022 | .00079 | .0011 | .00153 | .00066 | .00554 |
| %RSD | 10.595 | 156.33 | 79.769 | 18.780 | 865.06 | .20611 | 27.974 | 8.7132 | 271.14 | .02294 | 92.937 | 20.701 | 58.128 |
| #1 | .11329 | .00335 | -.00366 | .00013 | .00015 | 251.68 | .00052 | .00269 | -.00027 | 4.9704 | -.00057 | -.00272 | .00562 |
| #2 | .13164 | -.00017 | -.00102 | .00017 | -.00021 | 252.42 | .00077 | .00237 | .00084 | 4.9720 | -.00273 | -.00366 | .01346 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02041** | **-.00089** | **.00042** | **4.8443** | **-.00020** | **.00201** | **10.266** | **.00059** | **.00040** | **.02655** |
| Stddev | .01186 | .00029 | .00006 | .0174 | .00025 | .00035 | .009 | .00015 | .00016 | .00252 |
| %RSD | 58.128 | 32.804 | 14.236 | .35833 | 123.97 | 17.601 | .08429 | 25.270 | 41.154 | 9.4798 |
| #1 | .01202 | -.00109 | .00046 | 4.8320 | -.00002 | .00226 | 10.260 | .00048 | .00051 | .02477 |
| #2 | .02880 | -.00068 | .00038 | 4.8565 | -.00037 | .00176 | 10.273 | .00069 | .00028 | .02833 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8553.2** | **105220.** | **8886.5** |
| Stddev | 5.0 | 407. | 13.8 |
| %RSD | .05811 | .38722 | .15496 |
| #1 | 8549.6 | 104930. | 8896.3 |
| #2 | 8556.7 | 105500. | 8876.8 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 16:57:36 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49325** | **.50521** | **.99501** | **.50813** | **.50333** | **.49667** | **.00227** | **4.9860** | **.50633** | **.50199** | **.50142** | **.49810** | **2.5227** |
| Stddev | .00008 | .00073 | .00269 | .00187 | .00015 | .00083 | .00035 | .0025 | .00032 | .00015 | .00033 | .00080 | .0018 |
| %RSD | .01679 | .14492 | .27070 | .36884 | .02933 | .16629 | 15.227 | .04940 | .06310 | .02911 | .06491 | .16046 | .07115 |
| #1 | .49319 | .50469 | .99692 | .50946 | .50323 | .49609 | .00202 | 4.9843 | .50655 | .50210 | .50119 | .49753 | 2.5240 |
| #2 | .49331 | .50573 | .99311 | .50681 | .50344 | .49726 | .00251 | 4.9878 | .50610 | .50189 | .50165 | .49866 | 2.5215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.677** | **.98158** | **19.328** | **.48808** | **.50395** | **5.0817** | **.50399** | **.99930** | **1.0136** | **-.00016** | **1.0044** | **1.0044** | **5.0059** |
| Stddev | .009 | .00213 | .066 | .00083 | .00012 | .0019 | .00036 | .00248 | .0007 | .00156 | .0032 | .0046 | .0097 |
| %RSD | .01775 | .21729 | .34317 | .17101 | .02446 | .03803 | .07075 | .24842 | .06799 | 989.28 | .32357 | .45368 | .19387 |
| #1 | 49.671 | .98309 | 19.281 | .48749 | .50386 | 5.0831 | .50425 | 1.0011 | 1.0141 | -.00126 | 1.0067 | 1.0077 | 5.0128 |
| #2 | 49.684 | .98007 | 19.375 | .48868 | .50403 | 5.0803 | .50374 | .99754 | 1.0131 | .00094 | 1.0021 | 1.0012 | 4.9990 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.713** | **1.0077** | **.49546** | **-.00358** | **.48859** | **1.0280** | **-.02439** | **.49480** | **.48489** | **.49717** |
| Stddev | .021 | .0006 | .00098 | .00191 | .00016 | .0015 | .01200 | .00037 | .00012 | .00174 |
| %RSD | .19387 | .06154 | .19880 | 53.401 | .03268 | .14221 | 49.223 | .07470 | .02531 | .35092 |
| #1 | 10.727 | 1.0072 | .49476 | -.00223 | .48870 | 1.0290 | -.03287 | .49454 | .48481 | .49593 |
| #2 | 10.698 | 1.0081 | .49615 | -.00493 | .48847 | 1.0270 | -.01590 | .49506 | .48498 | .49840 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8694.8** | **107500.** | **8890.7** |
| Stddev | 9.5 | 617. | 20.5 |
| %RSD | .10921 | .57427 | .23110 |
| #1 | 8701.6 | 107940. | 8905.2 |
| #2 | 8688.1 | 107070. | 8876.2 |

Sample Name: CCB Acquired: 8/15/2013 16:59:42 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00017** | **.00133** | **.00168** | **.00050** | **.00005** | **.00358** | **-.00115** | **-.00002** | **.00007** | **.00002** | **-.00075** |
| Stddev | .00033 | .00000 | .00105 | .00009 | .00001 | .00005 | .00137 | .00448 | .00005 | .00002 | .00000 | .00003 |
| %RSD | 86.886 | 1.0998 | 79.334 | 5.5518 | 2.0141 | 86.993 | 38.253 | 389.51 | 219.61 | 22.893 | 1.9291 | 4.6135 |
| #1 | .00015 | .00016 | .00058 | .00175 | .00051 | .00009 | .00454 | .00202 | -.00006 | .00006 | .00002 | -.00078 |
| #2 | .00062 | .00017 | .00207 | .00162 | .00050 | .00002 | .00261 | -.00432 | .00001 | .00008 | .00002 | -.00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.03646** | **-.00260** | **.00244** | **.00009** | **.00072** | **.05923** | **.00020** | **.00090** | **-.00088** | **.00212** | W **.00564** |
| Stddev | .00103 | .05124 | .00237 | .00174 | .00007 | .00007 | .00641 | .00024 | .00038 | .00050 | .00022 | .00061 |
| %RSD | 127.32 | 140.55 | 91.170 | 71.319 | 77.869 | 9.4865 | 10.820 | 119.32 | 41.757 | 57.292 | 10.521 | 10.760 |
| #1 | .00008 | .07269 | -.00427 | .00121 | .00014 | .00077 | .05469 | .00003 | .00063 | -.00052 | .00228 | .00607 |
| #2 | .00154 | .00023 | -.00092 | .00368 | .00004 | .00067 | .06376 | .00037 | .00116 | -.00123 | .00196 | .00521 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00214** | **.02892** | **.06188** | **-.00155** | **.00002** | **.00219** | **.00001** | **-.00005** | **-.02683** | **-.00056** | **.00101** | W **.00312** |
| Stddev | .00048 | .00626 | .01339 | .00042 | .00011 | .00084 | .00010 | .00027 | .00673 | .00037 | .00051 | .00052 |
| %RSD | 22.479 | 21.636 | 21.636 | 27.368 | 697.59 | 38.429 | 1732.6 | 536.24 | 25.065 | 65.877 | 51.122 | 16.546 |
| #1 | .00249 | .03334 | .07135 | -.00125 | -.00006 | .00160 | -.00007 | .00014 | -.02208 | -.00082 | .00064 | .00348 |
| #2 | .00180 | .02449 | .05241 | -.00185 | .00009 | .00279 | .00008 | -.00024 | -.03159 | -.00030 | .00137 | .00275 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8645.9** | **107920.** | **8657.0** |
| Stddev | 17.1 | 235. | 29.2 |
| %RSD | .19797 | .21746 | .33676 |
| #1 | 8633.8 | 107750. | 8677.6 |
| #2 | 8658.0 | 108080. | 8636.3 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 17:01:56 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00978** | **.10443** | **.01370** | **.09394** | **.01039** | **.00097** | **.10982** | **.20097** | **.00506** | **.01055** | **.01015** | **.01479** | **.10129** |
| Stddev | .00049 | .00008 | .00119 | .00042 | .00008 | .00006 | .00256 | .00088 | .00001 | .00015 | .00006 | .00002 | .00138 |
| %RSD | 5.0005 | .07532 | 8.6732 | .44437 | .77750 | 5.9366 | 2.3285 | .43983 | .17500 | 1.3860 | .55011 | .13448 | 1.3641 |
| #1 | .00944 | .10437 | .01286 | .09423 | .01045 | .00102 | .11163 | .20034 | .00506 | .01045 | .01019 | .01477 | .10031 |
| #2 | .01013 | .10449 | .01454 | .09364 | .01033 | .00093 | .10801 | .20159 | .00507 | .01066 | .01011 | .01480 | .10226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0597** | **.00720** | **.19819** | **.01008** | **.01981** | **1.0803** | **.04111** | **2.8080** | **.00783** | **-.00117** | **.00922** | **.01370** | **.49325** |
| Stddev | .0849 | .00151 | .00199 | .00001 | .00002 | .0161 | .00046 | .0223 | .00012 | .00087 | .00048 | .00126 | .01151 |
| %RSD | 2.7734 | 21.042 | 1.0030 | .06103 | .09448 | 1.4914 | 1.1125 | .79445 | 1.4944 | 74.553 | 5.2291 | 9.1666 | 2.3339 |
| #1 | 2.9997 | .00612 | .19679 | .01007 | .01982 | 1.0917 | .04144 | 2.8238 | .00792 | -.00055 | .00888 | .01459 | .50139 |
| #2 | 3.1197 | .00827 | .19960 | .01008 | .01980 | 1.0689 | .04079 | 2.7922 | .00775 | -.00178 | .00956 | .01281 | .48511 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0556** | **.10006** | **.01009** | **.01347** | **.00988** | **.01527** | **.05599** | **.00931** | **.02034** | **.01734** |
| Stddev | .0246 | .00001 | .00009 | .00022 | .00020 | .00014 | .01954 | .00059 | .00019 | .00117 |
| %RSD | 2.3339 | .00538 | .87156 | 1.6656 | 2.0585 | .90603 | 34.905 | 6.3118 | .94834 | 6.7206 |
| #1 | 1.0730 | .10007 | .01003 | .01362 | .00974 | .01536 | .06981 | .00890 | .02048 | .01816 |
| #2 | 1.0381 | .10006 | .01015 | .01331 | .01003 | .01517 | .04217 | .00973 | .02020 | .01651 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8651.5** | **107970.** | **8717.9** |
| Stddev | 38.7 | 347. | 29.1 |
| %RSD | .44725 | .32158 | .33326 |
| #1 | 8624.2 | 108210. | 8697.4 |
| #2 | 8678.9 | 107720. | 8738.5 |

Sample Name: mb 280-187002/1-a  Acquired: 8/15/2013 17:04:14  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **.00126** | **.00112** | **.00111** | **.00047** | **.00001** | **.00207** | **-.00004** | **.00006** | **-.00019** |
| Stddev | .00027 | .00009 | .00172 | .00032 | .00011 | .00002 | .00072 | .00137 | .00009 | .00017 |
| %RSD | 43.394 | 6.8322 | 153.53 | 29.019 | 23.184 | 205.55 | 34.976 | 3061.2 | 147.53 | 87.624 |
| #1 | .00043 | .00120 | .00234 | .00134 | .00055 | .00000 | .00258 | .00092 | .00012 | -.00007 |
| #2 | .00081 | .00132 | -.00010 | .00088 | .00039 | .00002 | .00156 | -.00101 | .00000 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **-.00025** | **.00477** | **.02605** | **-.00172** | **.00106** | **.00017** | **.00005** | **.03991** | **.00048** |
| Stddev | .00002 | .00035 | .00196 | .04567 | .00134 | .00030 | .00001 | .00017 | .00361 | .00016 |
| %RSD | 35.103 | 140.64 | 41.174 | 175.29 | 77.623 | 28.668 | 3.2893 | 379.33 | 9.0572 | 33.819 |
| #1 | -.00007 | .00000 | .00338 | .05835 | -.00267 | .00128 | .00017 | -.00008 | .04246 | .00037 |
| #2 | -.00004 | -.00050 | .00615 | -.00624 | -.00078 | .00085 | .00016 | .00017 | .03735 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00207** | **-.00086** | **-.00018** | **-.00429** | **.00143** | **.01192** | **.02551** | **-.00065** | **.00013** | **.00026** |
| Stddev | .00163 | .00047 | .00066 | .00148 | .00057 | .00808 | .01730 | .00007 | .00001 | .00199 |
| %RSD | 78.523 | 54.931 | 378.04 | 34.446 | 39.803 | 67.809 | 67.809 | 10.325 | 3.9487 | 762.53 |
| #1 | .00092 | -.00052 | .00029 | -.00325 | .00183 | .01763 | .03774 | -.00060 | .00013 | .00167 |
| #2 | .00322 | -.00119 | -.00064 | -.00534 | .00102 | .00620 | .01328 | -.00070 | .00013 | -.00115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00064** | **.00911** | **-.00035** | **.00246** | **.00319** |
| Stddev | .00023 | .00115 | .06349 | .00011 | .00019 | .00021 |
| %RSD | 499.97 | 179.24 | 697.18 | 31.234 | 7.6622 | 6.4460 |
| #1 | -.00011 | .00145 | -.03579 | -.00042 | .00233 | .00305 |
| #2 | .00020 | -.00017 | .05400 | -.00027 | .00259 | .00334 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8739.7** | **108870.** | **8755.5** |
| Stddev | 17.2 | 156. | 16.1 |
| %RSD | .19723 | .14288 | .18357 |
| #1 | 8751.9 | 108980. | 8766.9 |
| #2 | 8727.5 | 108760. | 8744.1 |

Sample Name: lcs 280-187002/2-a  Acquired: 8/15/2013 17:06:30  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04935** | **1.9559** | **1.0305** | **1.0100** | **2.0703** | **.05067** | **2.1445** | **50.734** | **.10832** | **.49919** |
| Stddev | .00023 | .0025 | .0053 | .0019 | .0022 | .00027 | .0001 | .009 | .00001 | .00028 |
| %RSD | .47525 | .12694 | .51793 | .19074 | .10564 | .52633 | .00341 | .01791 | .01099 | .05542 |
| #1 | .04952 | 1.9542 | 1.0267 | 1.0086 | 2.0688 | .05048 | 2.1445 | 50.728 | .10833 | .49900 |
| #2 | .04919 | 1.9577 | 1.0343 | 1.0113 | 2.0719 | .05086 | 2.1446 | 50.740 | .10832 | .49939 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20468** | **.25615** | **1.0325** | **51.424** | **.99962** | **49.131** | **.49416** | **1.0079** | **52.098** | **.50218** |
| Stddev | .00007 | .00027 | .0062 | .009 | .00278 | .063 | .00025 | .0015 | .383 | .00046 |
| %RSD | .03348 | .10499 | .60485 | .01830 | .27840 | .12741 | .04985 | .15311 | .73524 | .09231 |
| #1 | .20463 | .25634 | 1.0280 | 51.417 | 1.0016 | 49.176 | .49434 | 1.0068 | 52.369 | .50185 |
| #2 | .20473 | .25596 | 1.0369 | 51.430 | .99765 | 49.087 | .49399 | 1.0090 | 51.827 | .50251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.410** | **.50707** | **-.01125** | **.48281** | **2.0344** | **10.053** | **21.514** | **1.9971** | **1.0187** | **.96820** |
| Stddev | .006 | .00067 | .00122 | .00329 | .0077 | .046 | .099 | .0070 | .0001 | .00534 |
| %RSD | .05911 | .13209 | 10.826 | .68228 | .38099 | .46035 | .46035 | .35131 | .01086 | .55127 |
| #1 | 10.405 | .50754 | -.01211 | .48048 | 2.0290 | 10.021 | 21.444 | 1.9921 | 1.0186 | .97197 |
| #2 | 10.414 | .50659 | -.01039 | .48513 | 2.0399 | 10.086 | 21.584 | 2.0020 | 1.0188 | .96443 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98320** | **2.0013** | **2.1595** | **.51281** | **.49125** | **.50625** |
| Stddev | .00175 | .0120 | .0121 | .00127 | .00175 | .00144 |
| %RSD | .17762 | .60057 | .56180 | .24850 | .35551 | .28363 |
| #1 | .98196 | 1.9928 | 2.1509 | .51191 | .49248 | .50727 |
| #2 | .98443 | 2.0098 | 2.1680 | .51372 | .49001 | .50524 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8404.9** | **103780.** | **8666.1** |
| Stddev | 3.1 | 8. | 46.4 |
| %RSD | .03736 | .00744 | .53527 |
| #1 | 8407.1 | 103770. | 8633.3 |
| #2 | 8402.7 | 103780. | 8698.9 |

Sample Name: 280-45288-c-9-a  Acquired: 8/15/2013 17:08:37  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.03173** | **.11357** | **.09031** | **.13193** | **.00013** | **.00404** | **17.869** | **.00094** | **.00905** |
| Stddev | .00068 | .00004 | .00154 | .00025 | .00049 | .00001 | .00064 | .065 | .00005 | .00019 |
| %RSD | 186.19 | .13427 | 1.3550 | .27735 | .37353 | 6.8820 | 15.800 | .36301 | 5.1379 | 2.1311 |
| #1 | .00085 | .03176 | .11466 | .09049 | .13228 | .00013 | .00359 | 17.915 | .00098 | .00891 |
| #2 | -.00012 | .03170 | .11248 | .09013 | .13158 | .00012 | .00450 | 17.824 | .00091 | .00918 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00136** | **48.633** | **1.0513** | **.00337** | **7.3149** | **.10459** | **.00097** | **70.124** | **.00389** |
| Stddev | .00000 | .00027 | .156 | .0255 | .00047 | .0344 | .00047 | .00040 | .539 | .00004 |
| %RSD | .70785 | 19.707 | .32075 | 2.4285 | 14.043 | .47078 | .45061 | 41.084 | .76902 | .94363 |
| #1 | .00033 | .00117 | 48.743 | 1.0693 | .00303 | 7.2906 | .10426 | .00069 | 70.505 | .00392 |
| #2 | .00033 | .00155 | 48.523 | 1.0332 | .00370 | 7.3393 | .10492 | .00126 | 69.743 | .00387 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2287** | **-.00102** | **1.9332** | **-.00321** | **.00382** | **12.264** | **26.244** | **-.00035** | **.23074** | **.00032** |
| Stddev | .0045 | .00051 | .0029 | .00131 | .00377 | .076 | .163 | .00008 | .00086 | .00129 |
| %RSD | .36411 | 49.913 | .15092 | 40.793 | 98.638 | .62128 | .62128 | 21.537 | .37222 | 401.32 |
| #1 | 1.2319 | -.00138 | 1.9352 | -.00413 | .00116 | 12.317 | 26.359 | -.00041 | .23135 | -.00059 |
| #2 | 1.2256 | -.00066 | 1.9311 | -.00228 | .00648 | 12.210 | 26.129 | -.00030 | .23013 | .00124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00150** | **-.03441** | **.00085** | **.00421** | **.00353** |
| Stddev | .00044 | .00012 | .00202 | .00002 | .00009 | .00140 |
| %RSD | 67.846 | 8.1156 | 5.8668 | 2.0500 | 2.1694 | 39.761 |
| #1 | .00034 | .00141 | -.03583 | .00086 | .00427 | .00453 |
| #2 | .00096 | .00158 | -.03298 | .00084 | .00414 | .00254 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8569.7** | **105180.** | **8745.7** |
| Stddev | 4.3 | 889. | 39.2 |
| %RSD | .04986 | .84482 | .44862 |
| #1 | 8566.6 | 105810. | 8718.0 |
| #2 | 8572.7 | 104560. | 8773.5 |

Sample Name: 280-45288-c-9-aSD@5 Acquired: 8/15/2013 17:10:53 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187002 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.01274** | **.02360** | **.01912** | **.02603** | **.00006** | **.00594** | **3.5999** | **.00018** | **.00182** |
| Stddev | .00014 | .00033 | .00053 | .00017 | .00013 | .00000 | .00286 | .0021 | .00033 | .00003 |
| %RSD | 209.20 | 2.5560 | 2.2397 | .89689 | .49397 | 5.3548 | 48.101 | .05922 | 187.74 | 1.6066 |
| #1 | -.00017 | .01251 | .02322 | .01900 | .02613 | .00005 | .00796 | 3.5984 | -.00006 | .00184 |
| #2 | .00003 | .01297 | .02397 | .01924 | .02594 | .00006 | .00392 | 3.6014 | .00041 | .00180 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.00094** | **9.7954** | **.21705** | **-.00007** | **1.4871** | **.02110** | **.00024** | **14.381** | **.00076** |
| Stddev | .00007 | .00026 | .0028 | .03233 | .00138 | .0025 | .00006 | .00009 | .303 | .00006 |
| %RSD | 188.96 | 28.124 | .02854 | 14.893 | 1896.9 | .16630 | .27152 | 37.712 | 2.1052 | 7.6863 |
| #1 | .00001 | .00075 | 9.7974 | .19419 | -.00105 | 1.4889 | .02106 | .00030 | 14.595 | .00072 |
| #2 | -.00009 | .00113 | 9.7934 | .23990 | .00090 | 1.4854 | .02114 | .00018 | 14.167 | .00080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.24985** | **-.00053** | **.37657** | **-.00405** | **.00101** | **2.4096** | **5.1565** | **-.00085** | **.04644** | **-.00225** |
| Stddev | .00154 | .00024 | .00277 | .00159 | .00241 | .0015 | .0032 | .00079 | .00010 | .00103 |
| %RSD | .61773 | 45.263 | .73461 | 39.220 | 238.64 | .06261 | .06261 | 93.532 | .21008 | 45.852 |
| #1 | .25095 | -.00036 | .37852 | -.00517 | .00272 | 2.4085 | 5.1542 | -.00141 | .04651 | -.00298 |
| #2 | .24876 | -.00070 | .37461 | -.00292 | -.00069 | 2.4107 | 5.1588 | -.00029 | .04638 | -.00152 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00063** | **.02218** | **-.00051** | **.00319** | **.00211** |
| Stddev | .00012 | .00092 | .01632 | .00001 | .00012 | .00439 |
| %RSD | 35.867 | 145.79 | 73.583 | 1.3208 | 3.7943 | 208.43 |
| #1 | .00041 | .00129 | .03372 | -.00050 | .00328 | -.00100 |
| #2 | .00024 | -.00002 | .01064 | -.00051 | .00311 | .00521 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8652.6** | **106650.** | **8680.0** |
| Stddev | 2.4 | 562. | 33.7 |
| %RSD | .02756 | .52650 | .38856 |
| #1 | 8650.9 | 107050. | 8656.1 |
| #2 | 8654.3 | 106250. | 8703.8 |

Sample Name: 280-45288-c-9-b ms  Acquired: 8/15/2013 17:13:11  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05042** | **1.9931** | **1.1666** | **1.0995** | **2.2311** | **.05144** | F **2.1528** | **69.181** | **.10952** | **.50909** |
| Stddev | .00142 | .0036 | .0024 | .0008 | .0103 | .00021 | .0050 | .240 | .00007 | .00004 |
| %RSD | 2.8160 | .17934 | .20973 | .07570 | .46366 | .40704 | .23160 | .34700 | .06097 | .00851 |
| #1 | .05143 | 1.9956 | 1.1649 | 1.0989 | 2.2238 | .05129 | 2.1493 | 69.011 | .10947 | .50912 |
| #2 | .04942 | 1.9906 | 1.1684 | 1.1001 | 2.2384 | .05159 | 2.1563 | 69.351 | .10956 | .50906 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20637** | **.26053** | **50.402** | **53.024** | **1.0117** | **56.718** | **.60222** | **1.0129** | **123.75** | **.50830** |
| Stddev | .00007 | .00044 | .175 | .224 | .0074 | .004 | .00005 | .0004 | .24 | .00033 |
| %RSD | .03207 | .16763 | .34661 | .42196 | .73505 | .00659 | .00838 | .03990 | .19464 | .06430 |
| #1 | .20632 | .26083 | 50.278 | 52.866 | 1.0064 | 56.721 | .60218 | 1.0131 | 123.92 | .50806 |
| #2 | .20642 | .26022 | 50.525 | 53.182 | 1.0170 | 56.715 | .60225 | 1.0126 | 123.58 | .50853 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.782** | **.50291** | **1.9160** | **.48400** | **2.0128** | **22.595** | **48.354** | **1.9993** | **1.2637** | **.97422** |
| Stddev | .007 | .00018 | .0063 | .00082 | .0074 | .061 | .130 | .0026 | .0042 | .00455 |
| %RSD | .05707 | .03624 | .32617 | .16848 | .36882 | .26876 | .26876 | .12998 | .33046 | .46696 |
| #1 | 11.787 | .50279 | 1.9116 | .48342 | 2.0075 | 22.552 | 48.262 | 2.0011 | 1.2608 | .97743 |
| #2 | 11.777 | .50304 | 1.9204 | .48457 | 2.0180 | 22.638 | 48.446 | 1.9974 | 1.2667 | .97100 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99400** | **1.9572** | **2.2164** | **.51725** | **.49760** | **.50910** |
| Stddev | .00031 | .0008 | .0001 | .00051 | .00066 | .00074 |
| %RSD | .03145 | .04022 | .00213 | .09891 | .13190 | .14597 |
| #1 | .99422 | 1.9578 | 2.2163 | .51689 | .49806 | .50857 |
| #2 | .99378 | 1.9567 | 2.2164 | .51761 | .49713 | .50962 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8337.4** | **102800.** | **8680.3** |
| Stddev | 25.1 | 176. | 2.6 |
| %RSD | .30060 | .17132 | .03036 |
| #1 | 8319.7 | 102670. | 8678.4 |
| #2 | 8355.1 | 102920. | 8682.2 |

Sample Name: 280-45288-c-9-c msd  Acquired: 8/15/2013 17:15:17  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05024** | **1.9763** | **1.1600** | **1.0931** | **2.2218** | **.05095** | F **2.1391** | **68.569** | **.10892** | **.50616** |
| Stddev | .00056 | .0021 | .0011 | .0006 | .0034 | .00009 | .0002 | .117 | .00002 | .00095 |
| %RSD | 1.1109 | .10730 | .09408 | .05137 | .15419 | .16842 | .00797 | .17076 | .01556 | .18691 |
| #1 | .04985 | 1.9778 | 1.1608 | 1.0935 | 2.2194 | .05089 | 2.1390 | 68.487 | .10894 | .50683 |
| #2 | .05064 | 1.9748 | 1.1592 | 1.0927 | 2.2243 | .05101 | 2.1392 | 68.652 | .10891 | .50549 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20514** | **.25812** | **49.787** | **52.858** | **1.0119** | **56.485** | **.59692** | **1.0090** | **121.92** | **.50428** |
| Stddev | .00036 | .00010 | .280 | .018 | .0006 | .046 | .00091 | .0008 | .13 | .00150 |
| %RSD | .17530 | .03877 | .56321 | .03424 | .05678 | .08142 | .15172 | .07747 | .10724 | .29696 |
| #1 | .20540 | .25819 | 49.985 | 52.871 | 1.0123 | 56.453 | .59628 | 1.0096 | 121.83 | .50534 |
| #2 | .20489 | .25805 | 49.589 | 52.845 | 1.0114 | 56.518 | .59756 | 1.0085 | 122.01 | .50322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.692** | **.50034** | **1.8876** | **.48243** | **1.9969** | **22.357** | **47.845** | **1.9910** | **1.2569** | **.96657** |
| Stddev | .013 | .00096 | .0001 | .00294 | .0014 | .026 | .055 | .0079 | .0003 | .00013 |
| %RSD | .10769 | .19164 | .00344 | .61004 | .07042 | .11432 | .11432 | .39622 | .02558 | .01333 |
| #1 | 11.700 | .50102 | 1.8875 | .48035 | 1.9979 | 22.375 | 47.883 | 1.9966 | 1.2567 | .96666 |
| #2 | 11.683 | .49966 | 1.8876 | .48451 | 1.9960 | 22.339 | 47.806 | 1.9854 | 1.2571 | .96648 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98412** | **1.9444** | **2.1449** | **.51385** | **.49570** | **.50470** |
| Stddev | .00074 | .0011 | .0045 | .00042 | .00117 | .00269 |
| %RSD | .07539 | .05694 | .20859 | .08232 | .23541 | .53237 |
| #1 | .98360 | 1.9436 | 2.1481 | .51415 | .49487 | .50280 |
| #2 | .98465 | 1.9452 | 2.1417 | .51355 | .49652 | .50660 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8313.4** | **102190.** | **8628.8** |
| Stddev | 27.5 | 138. | 1.2 |
| %RSD | .33109 | .13474 | .01412 |
| #1 | 8293.9 | 102090. | 8627.9 |
| #2 | 8332.8 | 102290. | 8629.7 |

Sample Name: 280-45288-c-9-aPDS  Acquired: 8/15/2013 17:17:23  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03726** | **1.1069** | **.32960** | **.18885** | **.24080** | **.05471** | **-.00077** | **39.212** | **.05675** | **.06271** |
| Stddev | .00003 | .0056 | .00140 | .00131 | .00075 | .00025 | .00398 | .138 | .00040 | .00019 |
| %RSD | .09266 | .50913 | .42560 | .69110 | .31029 | .46160 | 517.86 | .35212 | .69946 | .29932 |
| #1 | .03728 | 1.1109 | .32861 | .18793 | .24133 | .05489 | -.00359 | 39.310 | .05647 | .06258 |
| #2 | .03723 | 1.1029 | .33059 | .18977 | .24028 | .05453 | .00205 | 39.115 | .05703 | .06285 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05504** | **.05625** | **48.757** | **23.082** | **.11006** | **27.950** | **.15414** | **.05122** | **91.073** | **.05750** |
| Stddev | .00042 | .00023 | .090 | .020 | .00171 | .047 | .00025 | .00022 | .141 | .00003 |
| %RSD | .75993 | .40349 | .18486 | .08486 | 1.5520 | .16827 | .16036 | .42178 | .15445 | .05847 |
| #1 | .05474 | .05609 | 48.693 | 23.068 | .10885 | 27.917 | .15397 | .05107 | 91.172 | .05747 |
| #2 | .05533 | .05641 | 48.820 | 23.096 | .11127 | 27.983 | .15431 | .05137 | 90.973 | .05752 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.4560** | **.10484** | **1.9062** | **.09623** | **.21778** | **17.082** | **36.555** | **.09959** | **.28130** | **.20628** |
| Stddev | .0121 | .00187 | .0165 | .00068 | .00244 | .074 | .159 | .00088 | .00103 | .00081 |
| %RSD | .35077 | 1.7795 | .86790 | .70149 | 1.1198 | .43397 | .43397 | .88833 | .36596 | .39140 |
| #1 | 3.4475 | .10352 | 1.8945 | .09575 | .21605 | 17.134 | 36.667 | .09897 | .28203 | .20686 |
| #2 | 3.4646 | .10616 | 1.9179 | .09671 | .21950 | 17.029 | 36.443 | .10022 | .28057 | .20571 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04989** | **.21264** | **.57326** | **.05571** | **.21576** | **.05142** |
| Stddev | .00006 | .00141 | .03692 | .00032 | .00150 | .00051 |
| %RSD | .12131 | .66145 | 6.4399 | .58167 | .69598 | .98265 |
| #1 | .04985 | .21165 | .54716 | .05548 | .21470 | .05178 |
| #2 | .04994 | .21363 | .59937 | .05594 | .21682 | .05107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8475.5** | **104000.** | **8663.1** |
| Stddev | 4.9 | 106. | 35.3 |
| %RSD | .05790 | .10177 | .40721 |
| #1 | 8479.0 | 104080. | 8638.1 |
| #2 | 8472.0 | 103930. | 8688.0 |

Sample Name: 280-45288-c-10-a  Acquired: 8/15/2013 17:19:33  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.01081** | **.35119** | **.14423** | **.41839** | **.00017** | **-.00202** | **57.127** | **.00180** | **.01825** |
| Stddev | .00020 | .00030 | .00110 | .00092 | .00001 | .00007 | .00144 | .137 | .00001 | .00008 |
| %RSD | 120.68 | 2.7730 | .31226 | .63566 | .00268 | 43.379 | 71.504 | .23995 | .52397 | .44985 |
| #1 | .00030 | .01103 | .35197 | .14488 | .41839 | .00022 | -.00304 | 57.224 | .00181 | .01831 |
| #2 | .00002 | .01060 | .35042 | .14358 | .41840 | .00012 | -.00100 | 57.031 | .00180 | .01819 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00095** | **36.419** | **8.3528** | **.01154** | **18.494** | **.22812** | **.00033** | **107.55** | **.01409** |
| Stddev | .00003 | .00036 | .044 | .0046 | .00400 | .037 | .00056 | .00006 | .54 | .00005 |
| %RSD | 88.247 | 37.492 | .12144 | .05569 | 34.659 | .19927 | .24499 | 18.983 | .50233 | .33236 |
| #1 | -.00005 | .00070 | 36.450 | 8.3561 | .01436 | 18.520 | .22772 | .00029 | 107.93 | .01412 |
| #2 | -.00001 | .00121 | 36.388 | 8.3495 | .00871 | 18.468 | .22851 | .00037 | 107.17 | .01406 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.7252** | **-.00246** | **.39493** | **-.00347** | **-.00057** | **19.471** | **41.668** | **-.00025** | **.66212** | **-.00043** |
| Stddev | .0157 | .00069 | .00137 | .00066 | .00204 | .036 | .077 | .00014 | .00148 | .00109 |
| %RSD | .57625 | 28.045 | .34685 | 18.929 | 356.41 | .18417 | .18417 | 56.829 | .22366 | 256.09 |
| #1 | 2.7363 | -.00197 | .39589 | -.00301 | -.00202 | 19.446 | 41.614 | -.00015 | .66317 | .00034 |
| #2 | 2.7141 | -.00295 | .39396 | -.00393 | .00087 | 19.497 | 41.723 | -.00036 | .66108 | -.00120 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **-.00004** | **-.01588** | **.00004** | **.02002** | **.00270** |
| Stddev | .00024 | .00024 | .00418 | .00013 | .00038 | .00123 |
| %RSD | 67.211 | 664.14 | 26.313 | 364.69 | 1.9014 | 45.553 |
| #1 | .00019 | -.00021 | -.01292 | .00013 | .02029 | .00183 |
| #2 | .00053 | .00014 | -.01883 | -.00006 | .01975 | .00358 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8487.8** | **105040.** | **8883.5** |
| Stddev | 14.0 | 226. | 64.0 |
| %RSD | .16494 | .21492 | .72096 |
| #1 | 8477.9 | 104880. | 8838.2 |
| #2 | 8497.7 | 105200. | 8928.7 |

Sample Name: 280-45288-c-11-a  Acquired: 8/15/2013 17:21:49  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.25357** | **.03214** | **.22619** | **.42982** | **.00103** | **-.00412** | **70.819** | **.00070** | **.01109** |
| Stddev | .00069 | .00007 | .00031 | .00004 | .00038 | .00004 | .00094 | .069 | .00023 | .00027 |
| %RSD | 154.09 | .02674 | .95713 | .01771 | .08798 | 4.0914 | 22.939 | .09719 | 33.061 | 2.4484 |
| #1 | -.00004 | .25362 | .03193 | .22616 | .42955 | .00106 | -.00479 | 70.770 | .00053 | .01128 |
| #2 | .00093 | .25353 | .03236 | .22621 | .43008 | .00100 | -.00345 | 70.868 | .00086 | .01090 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.00253** | **16.772** | **19.570** | **.01700** | **16.554** | **.21914** | **-.00008** | **178.04** | **.00900** |
| Stddev | .00010 | .00041 | .038 | .030 | .00078 | .006 | .00007 | .00003 | .04 | .00040 |
| %RSD | 15.244 | 16.295 | .22414 | .15587 | 4.5955 | .03598 | .03161 | 31.269 | .02017 | 4.4152 |
| #1 | .00061 | .00282 | 16.745 | 19.549 | .01755 | 16.558 | .21909 | -.00010 | 178.06 | .00872 |
| #2 | .00076 | .00224 | 16.798 | 19.592 | .01645 | 16.549 | .21919 | -.00006 | 178.01 | .00928 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.812** | W **-.00415** | **2.0884** | **-.00303** | **.01229** | **38.466** | **82.318** | **.00140** | **.52285** | **-.00085** |
| Stddev | .006 | .00087 | .0006 | .00066 | .00007 | .014 | .031 | .00112 | .00129 | .00166 |
| %RSD | .04873 | 21.063 | .02770 | 21.684 | .60420 | .03731 | .03731 | 79.730 | .24742 | 196.35 |
| #1 | 12.808 | -.00476 | 2.0888 | -.00257 | .01234 | 38.456 | 82.296 | .00219 | .52193 | .00033 |
| #2 | 12.817 | -.00353 | 2.0880 | -.00350 | .01224 | 38.476 | 82.339 | .00061 | .52376 | -.00202 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | -.00300 | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00039** | **-.01683** | **.00107** | **.01501** | **.00178** |
| Stddev | .00013 | .00040 | .01836 | .00052 | .00028 | .00117 |
| %RSD | 27.769 | 102.47 | 109.09 | 48.528 | 1.8930 | 65.806 |
| #1 | .00057 | .00011 | -.00385 | .00070 | .01481 | .00095 |
| #2 | .00038 | .00068 | -.02982 | .00144 | .01521 | .00261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8386.2** | **103560.** | **8860.6** |
| Stddev | 18.0 | 113. | 10.4 |
| %RSD | .21444 | .10870 | .11744 |
| #1 | 8373.5 | 103480. | 8853.3 |
| #2 | 8398.9 | 103640. | 8868.0 |

Sample Name: 280-45288-c-13-a  Acquired: 8/15/2013 17:24:02  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187002  6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **.01272** | **.35904** | **.12723** | **.39746** | **.00015** | **-.00007** | **52.630** | **.00192** | **.01759** |
| Stddev | .00041 | .00016 | .00329 | .00003 | .00093 | .00013 | .00022 | .023 | .00007 | .00021 |
| %RSD | 363.84 | 1.2271 | .91589 | .02130 | .23460 | 86.027 | 301.28 | .04300 | 3.8608 | 1.1866 |
| #1 | -.00040 | .01283 | .35672 | .12721 | .39680 | .00024 | .00008 | 52.614 | .00197 | .01773 |
| #2 | .00018 | .01261 | .36137 | .12724 | .39811 | .00006 | -.00023 | 52.646 | .00187 | .01744 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00103** | **34.810** | **7.3540** | **.00902** | **17.299** | **.21042** | **-.00006** | **98.201** | **.01173** |
| Stddev | .00005 | .00001 | .006 | .0197 | .00203 | .011 | .00032 | .00023 | .066 | .00005 |
| %RSD | 30.210 | .52146 | .01807 | .26768 | 22.483 | .06286 | .15317 | 367.94 | .06735 | .40964 |
| #1 | .00022 | .00103 | 34.814 | 7.3679 | .00759 | 17.306 | .21065 | .00010 | 98.154 | .01176 |
| #2 | .00014 | .00103 | 34.805 | 7.3400 | .01046 | 17.291 | .21019 | -.00022 | 98.247 | .01169 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.4367** | **-.00242** | **.33849** | **-.00036** | **.00328** | **18.000** | **38.521** | **-.00018** | **.62093** | **-.00240** |
| Stddev | .0011 | .00044 | .00287 | .00453 | .00316 | .154 | .329 | .00045 | .00231 | .00168 |
| %RSD | .04654 | 18.164 | .84652 | 1269.6 | 96.153 | .85299 | .85299 | 255.08 | .37279 | 69.923 |
| #1 | 2.4375 | -.00273 | .34052 | .00285 | .00551 | 17.892 | 38.288 | .00014 | .61929 | -.00359 |
| #2 | 2.4359 | -.00211 | .33646 | -.00356 | .00105 | 18.109 | 38.753 | -.00049 | .62257 | -.00121 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **-.00024** | **-.03982** | **.00028** | **.01734** | **.00467** |
| Stddev | .00015 | .00174 | .01896 | .00038 | .00018 | .00030 |
| %RSD | 45.722 | 738.91 | 47.605 | 138.43 | 1.0607 | 6.3363 |
| #1 | .00023 | .00100 | -.05323 | .00001 | .01747 | .00488 |
| #2 | .00045 | -.00147 | -.02642 | .00055 | .01721 | .00447 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8517.6** | **105720.** | **8874.2** |
| Stddev | 7.5 | 76. | 18.9 |
| %RSD | .08860 | .07214 | .21328 |
| #1 | 8512.2 | 105660. | 8860.8 |
| #2 | 8522.9 | 105770. | 8887.6 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 17:26:17 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00066** | **50.195** | **.00197** | **.00263** | **.00103** | **-.00006** | **1.0363** | **-.00846** | **.00003** | **.00027** | **-.00010** | **.00401** | **49.982** |
| Stddev | .00031 | .014 | .00205 | .00056 | .00008 | .00006 | .0080 | .00056 | .00024 | .00017 | .00011 | .00009 | .132 |
| %RSD | 47.749 | .02873 | 104.31 | 21.282 | 7.7043 | 89.720 | .77008 | 6.6130 | 800.47 | 63.257 | 109.99 | 2.3028 | .26392 |
| #1 | .00044 | 50.185 | .00342 | .00224 | .00097 | -.00010 | 1.0419 | -.00806 | -.00014 | .00015 | -.00002 | .00408 | 50.076 |
| #2 | .00088 | 50.206 | .00052 | .00303 | .00108 | -.00002 | 1.0306 | -.00885 | .00020 | .00039 | -.00018 | .00395 | 49.889 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20055** | **.00326** | **-.00155** | **.00007** | **.00004** | **253.84** | **.00070** | **.01035** | **-.00001** | **5.0066** | **-.00109** | **.00026** | **.00637** |
| Stddev | .03162 | .00168 | .00312 | .00010 | .00004 | .04 | .00011 | .00157 | .00030 | .0253 | .00207 | .00313 | .00385 |
| %RSD | 15.767 | 51.532 | 201.31 | 135.41 | 81.405 | .01480 | 16.316 | 15.138 | 3243.4 | .50571 | 189.93 | 1198.6 | 60.347 |
| #1 | .17819 | .00207 | .00066 | .00000 | .00007 | 253.87 | .00062 | .01146 | -.00022 | 5.0245 | .00037 | -.00195 | .00909 |
| #2 | .22291 | .00445 | -.00376 | .00015 | .00002 | 253.81 | .00078 | .00924 | .00020 | 4.9887 | -.00255 | .00248 | .00365 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01364** | **-.00064** | **.00034** | **4.8432** | **-.00013** | **.00188** | **10.274** | **.00128** | **.00065** | **.03035** |
| Stddev | .00823 | .00049 | .00001 | .0094 | .00006 | .00004 | .036 | .00029 | .00011 | .00141 |
| %RSD | 60.347 | 76.369 | 2.3337 | .19389 | 47.891 | 1.9100 | .35291 | 22.489 | 17.124 | 4.6316 |
| #1 | .01946 | -.00029 | .00033 | 4.8499 | -.00009 | .00191 | 10.300 | .00148 | .00073 | .03135 |
| #2 | .00782 | -.00099 | .00034 | 4.8366 | -.00018 | .00186 | 10.249 | .00108 | .00057 | .02936 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8455.8** | **103570.** | **8603.3** |
| Stddev | 11.6 | 34. | 86.6 |
| %RSD | .13763 | .03297 | 1.0062 |
| #1 | 8464.0 | 103600. | 8542.1 |
| #2 | 8447.6 | 103550. | 8664.5 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 17:28:38 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49641** | **.50846** | **1.0021** | **.51207** | **.50642** | **.50053** | **.00305** | **5.0354** | **.50834** | **.50433** | **.50243** | **.50095** | **2.5492** |
| Stddev | .00075 | .00152 | .0013 | .00183 | .00055 | .00082 | .00134 | .0131 | .00032 | .00026 | .00056 | .00055 | .0053 |
| %RSD | .15141 | .29888 | .13392 | .35786 | .10935 | .16392 | 43.930 | .26002 | .06321 | .05072 | .11210 | .10999 | .20784 |
| #1 | .49694 | .50738 | 1.0012 | .51337 | .50603 | .49995 | .00210 | 5.0261 | .50856 | .50452 | .50283 | .50134 | 2.5529 |
| #2 | .49588 | .50953 | 1.0031 | .51078 | .50681 | .50111 | .00400 | 5.0446 | .50811 | .50415 | .50203 | .50057 | 2.5454 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.219** | **.98636** | **19.365** | **.49021** | **.50475** | **5.2240** | **.50621** | **1.0112** | **1.0172** | **-.00905** | **1.0103** | **1.0129** | **4.9602** |
| Stddev | .135 | .00330 | .028 | .00032 | .00076 | .0069 | .00057 | .0031 | .0016 | .00318 | .0032 | .0026 | .0016 |
| %RSD | .26817 | .33458 | .14280 | .06560 | .15089 | .13200 | .11312 | .30351 | .15711 | 35.178 | .31548 | .25422 | .03256 |
| #1 | 50.124 | .98869 | 19.385 | .48998 | .50528 | 5.2192 | .50661 | 1.0134 | 1.0161 | -.00680 | 1.0081 | 1.0111 | 4.9590 |
| #2 | 50.315 | .98402 | 19.346 | .49043 | .50421 | 5.2289 | .50580 | 1.0090 | 1.0184 | -.01130 | 1.0126 | 1.0148 | 4.9613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.615** | **1.0126** | **.49943** | **-.00392** | **.49073** | **1.0306** | **.01702** | **.49724** | **.49040** | **.49811** |
| Stddev | .003 | .0008 | .00035 | .00288 | .00155 | .0002 | .00881 | .00077 | .00028 | .00319 |
| %RSD | .03256 | .07759 | .07076 | 73.606 | .31548 | .01521 | 51.737 | .15548 | .05778 | .64106 |
| #1 | 10.612 | 1.0132 | .49918 | -.00596 | .48964 | 1.0307 | .01079 | .49779 | .49020 | .50037 |
| #2 | 10.617 | 1.0121 | .49968 | -.00188 | .49183 | 1.0305 | .02325 | .49670 | .49060 | .49585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8633.3** | **106420.** | **8743.7** |
| Stddev | 15.4 | 39. | 34.7 |
| %RSD | .17865 | .03677 | .39664 |
| #1 | 8644.3 | 106390. | 8768.2 |
| #2 | 8622.4 | 106450. | 8719.2 |

Sample Name: CCB  Acquired: 8/15/2013 17:30:44  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **.00009** | **-.00115** | **.00132** | **.00029** | **.00005** | **.00295** | **-.00111** | **.00018** | **-.00005** | **-.00011** |
| Stddev | .00027 | .00010 | .00193 | .00018 | .00013 | .00002 | .00210 | .00058 | .00023 | .00015 | .00009 |
| %RSD | 1180.9 | 107.09 | 167.86 | 13.418 | 44.924 | 49.758 | 71.215 | 52.489 | 124.28 | 303.59 | 82.957 |
| #1 | -.00021 | .00017 | -.00252 | .00145 | .00039 | .00006 | .00443 | -.00153 | .00034 | .00006 | -.00018 |
| #2 | .00017 | .00002 | .00022 | .00120 | .00020 | .00003 | .00146 | -.00070 | .00002 | -.00015 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00005** | **.00230** | **.01965** | W **-.00271** | **.00272** | **.00006** | **.00085** | W **.11721** | **-.00004** | **.00201** | **-.00086** |
| Stddev | .00036 | .00003 | .02492 | .00257 | .00146 | .00008 | .00017 | .02071 | .00019 | .00110 | .00079 |
| %RSD | 783.18 | 1.2089 | 126.85 | 95.092 | 53.769 | 126.95 | 19.822 | 17.671 | 524.14 | 54.713 | 91.193 |
| #1 | .00021 | .00228 | .03727 | -.00453 | .00376 | .00001 | .00073 | .13186 | .00010 | .00123 | -.00031 |
| #2 | -.00030 | .00232 | .00202 | -.00089 | .00169 | .00012 | .00097 | .10257 | -.00018 | .00278 | -.00142 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .09160 | | | |
| Low Limit | | | | -.00261 | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00204** | W **.00476** | **.00097** | **.01687** | **.03610** | **-.00075** | **.00012** | **.00017** | **.00016** | **.00012** | **.00336** |
| Stddev | .00168 | .00250 | .00161 | .00447 | .00957 | .00001 | .00002 | .00114 | .00032 | .00045 | .03639 |
| %RSD | 82.488 | 52.551 | 165.35 | 26.508 | 26.508 | 1.2451 | 18.498 | 665.10 | 199.67 | 372.01 | 1083.1 |
| #1 | -.00323 | .00299 | .00211 | .01371 | .02933 | -.00075 | .00013 | .00098 | -.00007 | -.00020 | -.02237 |
| #2 | -.00085 | .00653 | -.00016 | .02003 | .04287 | -.00074 | .00010 | -.00064 | .00038 | .00044 | .02909 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00059** | **.00126** | W **.00389** |
| Stddev | .00018 | .00008 | .00125 |
| %RSD | 31.001 | 6.2438 | 32.164 |
| #1 | -.00046 | .00132 | .00301 |
| #2 | -.00072 | .00121 | .00478 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8574.4** | **106910.** | **8619.9** |
| Stddev | 8.9 | 649. | 51.5 |
| %RSD | .10427 | .60671 | .59691 |
| #1 | 8580.8 | 106450. | 8656.3 |
| #2 | 8568.1 | 107370. | 8583.5 |

Sample Name: CCVL-2200397 Acquired: 8/15/2013 17:32:59 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01048** | **.10578** | **.01470** | **.09516** | **.01043** | **.00093** | **.11108** | **.20671** | **.00533** | **.01029** | **.01021** | **.01555** | **.10233** |
| Stddev | .00015 | .00020 | .00055 | .00032 | .00009 | .00002 | .00144 | .00035 | .00003 | .00007 | .00012 | .00031 | .00183 |
| %RSD | 1.4277 | .19022 | 3.7158 | .33920 | .90893 | 2.0659 | 1.3000 | .17042 | .62122 | .65949 | 1.1447 | 2.0032 | 1.7918 |
| #1 | .01058 | .10592 | .01509 | .09539 | .01037 | .00094 | .11210 | .20696 | .00531 | .01024 | .01029 | .01533 | .10363 |
| #2 | .01037 | .10564 | .01431 | .09493 | .01050 | .00092 | .11005 | .20646 | .00535 | .01034 | .01012 | .01577 | .10103 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0928** | **.00848** | **.19965** | **.01010** | **.01984** | **1.1438** | **.04116** | **2.8237** | **.00848** | **-.00408** | **.00754** | **.01580** | **.49213** |
| Stddev | .0199 | .00175 | .00090 | .00004 | .00024 | .0157 | .00032 | .0060 | .00003 | .00002 | .00007 | .00222 | .02488 |
| %RSD | .64401 | 20.694 | .45086 | .41413 | 1.2156 | 1.3715 | .78729 | .21432 | .36058 | .55341 | .98927 | 14.068 | 5.0546 |
| #1 | 3.1069 | .00724 | .20028 | .01013 | .01967 | 1.1327 | .04139 | 2.8280 | .00846 | -.00407 | .00748 | .01423 | .50972 |
| #2 | 3.0788 | .00972 | .19901 | .01007 | .02001 | 1.1549 | .04093 | 2.8194 | .00850 | -.00410 | .00759 | .01738 | .47454 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0532** | **.10107** | **.01011** | **.01539** | **.00985** | **.01654** | F **.00549** | **.00983** | **.02065** | **.01809** |
| Stddev | .0532 | .00041 | .00000 | .00098 | .00003 | .00105 | .00183 | .00017 | .00006 | .00365 |
| %RSD | 5.0546 | .40602 | .04298 | 6.3744 | .32921 | 6.3630 | 33.367 | 1.6890 | .28606 | 20.162 |
| #1 | 1.0908 | .10136 | .01010 | .01608 | .00982 | .01729 | .00679 | .00995 | .02061 | .01551 |
| #2 | 1.0155 | .10078 | .01011 | .01469 | .00987 | .01580 | .00420 | .00972 | .02069 | .02067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8610.9** | **107640.** | **8683.4** |
| Stddev | 7.3 | 595. | 5.1 |
| %RSD | .08521 | .55288 | .05857 |
| #1 | 8605.7 | 107220. | 8687.0 |
| #2 | 8616.1 | 108060. | 8679.9 |

Sample Name: mb 280-186959/1-a  Acquired: 8/15/2013 17:35:14  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00618** | **-.00077** | **.00645** | **.00025** | **.00005** | **.00193** | **.04209** | **.00004** | **-.00014** |
| Stddev | .00036 | .00019 | .00064 | .00037 | .00007 | .00003 | .00159 | .00317 | .00005 | .00024 |
| %RSD | 68.475 | 3.1330 | 83.829 | 5.8068 | 28.929 | 52.149 | 82.803 | 7.5437 | 119.43 | 171.67 |
| #1 | .00027 | .00631 | -.00031 | .00618 | .00020 | .00007 | .00080 | .04433 | .00008 | .00003 |
| #2 | .00077 | .00604 | -.00122 | .00671 | .00030 | .00003 | .00305 | .03984 | .00001 | -.00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00102** | **.01474** | **.09340** | **.00219** | **.00240** | **.00033** | **.00009** | **.14756** | **.00020** |
| Stddev | .00006 | .00034 | .00305 | .00799 | .00345 | .00091 | .00002 | .00039 | .01991 | .00039 |
| %RSD | 62.687 | 32.921 | 20.657 | 8.5552 | 157.54 | 38.095 | 5.6065 | 421.40 | 13.495 | 191.88 |
| #1 | .00005 | .00126 | .01259 | .09905 | .00463 | .00175 | .00034 | -.00018 | .16164 | -.00007 |
| #2 | .00013 | .00078 | .01689 | .08775 | -.00025 | .00305 | .00032 | .00037 | .13348 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00547** | **-.00158** | **.03704** | **-.00251** | **-.00085** | **.04043** | **.08652** | **-.00116** | **.00001** | **.00244** |
| Stddev | .00139 | .00006 | .00029 | .00116 | .00292 | .00191 | .00409 | .00126 | .00004 | .00120 |
| %RSD | 25.369 | 3.5273 | .79067 | 46.410 | 345.92 | 4.7316 | 4.7316 | 108.24 | 609.99 | 49.307 |
| #1 | .00449 | -.00154 | .03725 | -.00169 | .00122 | .04178 | .08941 | -.00205 | -.00002 | .00330 |
| #2 | .00645 | -.00162 | .03683 | -.00333 | -.00291 | .03908 | .08363 | -.00027 | .00003 | .00159 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00062** | **-.00076** | **-.01908** | **-.00060** | **.00282** | **.00202** |
| Stddev | .00050 | .00163 | .00986 | .00034 | .00018 | .00112 |
| %RSD | 79.686 | 214.02 | 51.654 | 55.725 | 6.5248 | 55.451 |
| #1 | .00027 | -.00191 | -.01211 | -.00037 | .00295 | .00123 |
| #2 | .00097 | .00039 | -.02605 | -.00084 | .00269 | .00281 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8799.2** | **109130.** | **8833.7** |
| Stddev | 10.7 | 944. | 43.9 |
| %RSD | .12135 | .86468 | .49656 |
| #1 | 8791.6 | 109790. | 8802.6 |
| #2 | 8806.7 | 108460. | 8864.7 |

Sample Name: lcs 280-186959/2-a Acquired: 8/15/2013 17:37:29 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04960** | **1.9575** | **1.0191** | **1.0700** | **2.0441** | **.04981** | **2.1301** | **49.999** | **.10671** | **.49567** |
| Stddev | .00036 | .0030 | .0016 | .0009 | .0012 | .00003 | .0015 | .028 | .00006 | .00090 |
| %RSD | .72472 | .15168 | .16041 | .08580 | .05820 | .05765 | .07246 | .05589 | .05496 | .18105 |
| #1 | .04934 | 1.9554 | 1.0203 | 1.0693 | 2.0449 | .04983 | 2.1312 | 50.019 | .10676 | .49504 |
| #2 | .04985 | 1.9596 | 1.0180 | 1.0706 | 2.0432 | .04979 | 2.1290 | 49.979 | .10667 | .49631 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20341** | **.25401** | **1.0326** | **50.784** | **.98989** | **48.251** | **.48714** | **.99189** | **51.422** | **.49802** |
| Stddev | .00016 | .00086 | .0015 | .027 | .00267 | .083 | .00099 | .00201 | .470 | .00009 |
| %RSD | .07802 | .33762 | .14996 | .05255 | .26958 | .17225 | .20329 | .20274 | .91494 | .01865 |
| #1 | .20330 | .25340 | 1.0315 | 50.803 | .99178 | 48.193 | .48644 | .99047 | 51.089 | .49808 |
| #2 | .20353 | .25461 | 1.0337 | 50.765 | .98801 | 48.310 | .48784 | .99331 | 51.755 | .49795 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.294** | **.50288** | **.00879** | **.47121** | **1.9848** | **1.0705** | **2.2909** | **1.9606** | **1.0043** | **.94822** |
| Stddev | .010 | .00017 | .00086 | .00185 | .0121 | .0089 | .0192 | .0090 | .0008 | .00144 |
| %RSD | .09307 | .03335 | 9.7504 | .39217 | .61133 | .83629 | .83629 | .46070 | .07448 | .15176 |
| #1 | 10.301 | .50300 | .00819 | .47252 | 1.9934 | 1.0768 | 2.3044 | 1.9670 | 1.0048 | .94721 |
| #2 | 10.287 | .50276 | .00940 | .46991 | 1.9762 | 1.0642 | 2.2773 | 1.9542 | 1.0038 | .94924 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96320** | **1.9762** | **2.1631** | **.50556** | **.48620** | **.49254** |
| Stddev | .00281 | .0093 | .0830 | .00198 | .00092 | .00318 |
| %RSD | .29154 | .46836 | 3.8378 | .39260 | .18892 | .64572 |
| #1 | .96121 | 1.9828 | 2.2218 | .50416 | .48555 | .49479 |
| #2 | .96518 | 1.9697 | 2.1044 | .50697 | .48685 | .49029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8337.6** | **103720.** | **8688.5** |
| Stddev | .2 | 31. | 22.7 |
| %RSD | .00264 | .02978 | .26169 |
| #1 | 8337.8 | 103700. | 8672.4 |
| #2 | 8337.5 | 103740. | 8704.6 |

Sample Name: 280-45020-a-21-f  Acquired: 8/15/2013 17:39:37  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00124** | **86.537** | **.05265** | **.02019** | **.31950** | **.00391** | **.00454** | **16.729** | **.00187** | **.06945** |
| Stddev | .00008 | .023 | .00168 | .00011 | .00154 | .00009 | .00001 | .044 | .00011 | .00067 |
| %RSD | 6.7218 | .02630 | 3.1978 | .54010 | .48147 | 2.2114 | .11774 | .26217 | 6.0309 | .95903 |
| #1 | -.00118 | 86.553 | .05146 | .02012 | .32058 | .00385 | .00454 | 16.760 | .00179 | .06898 |
| #2 | -.00130 | 86.521 | .05384 | .02027 | .31841 | .00397 | .00454 | 16.698 | .00195 | .06992 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11921** | **.34324** | **206.00** | **9.4234** | **.17995** | **38.584** | **8.2384** | **.01112** | **.41663** | **.15541** |
| Stddev | .00120 | .00041 | .09 | .0301 | .00289 | .114 | .0269 | .00025 | .00312 | .00123 |
| %RSD | 1.0033 | .11900 | .04153 | .31909 | 1.6074 | .29425 | .32642 | 2.2540 | .74859 | .78865 |
| #1 | .11836 | .34295 | 206.06 | 9.4447 | .18199 | 38.664 | 8.2193 | .01094 | .41442 | .15455 |
| #2 | .12005 | .34353 | 205.94 | 9.4022 | .17790 | 38.503 | 8.2574 | .01129 | .41883 | .15628 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.0942** | **.05946** | **.16851** | **-.00330** | **.00641** | **2.4616** | **5.2678** | **.00328** | **.06093** | **.02889** |
| Stddev | .0306 | .00047 | .00093 | .00123 | .00823 | .0348 | .0744 | .00019 | .00047 | .00082 |
| %RSD | .50151 | .78914 | .55219 | 37.317 | 128.42 | 1.4120 | 1.4120 | 5.6755 | .77779 | 2.8418 |
| #1 | 6.0726 | .05979 | .16785 | -.00243 | .00059 | 2.4862 | 5.3204 | .00341 | .06127 | .02947 |
| #2 | 6.1158 | .05913 | .16916 | -.00417 | .01223 | 2.4370 | 5.2152 | .00315 | .06060 | .02831 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67897** | **-.00136** | F **-.24705** | **.15923** | **.54674** | **.05561** |
| Stddev | .00455 | .00042 | .02122 | .00016 | .00113 | .00344 |
| %RSD | .67056 | 31.125 | 8.5883 | .09958 | .20667 | 6.1861 |
| #1 | .68219 | -.00166 | -.26206 | .15934 | .54754 | .05804 |
| #2 | .67575 | -.00106 | -.23205 | .15911 | .54595 | .05317 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10247.** | **124630.** | **10483.** |
| Stddev | 1. | 388. | 40. |
| %RSD | .01431 | .31129 | .38513 |
| #1 | 10246. | 124360. | 10512. |
| #2 | 10248. | 124910. | 10455. |

Sample Name: 280-45020-a-22-d  Acquired: 8/15/2013 17:41:56  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00207** | **95.161** | **.04811** | **.01876** | **.32420** | **.00445** | **.00369** | **8.2925** | **.00215** | **.05900** |
| Stddev | .00046 | .561 | .00165 | .00026 | .00056 | .00010 | .00112 | .0503 | .00014 | .00060 |
| %RSD | 21.996 | .58914 | 3.4230 | 1.3719 | .17187 | 2.1546 | 30.246 | .60719 | 6.6854 | 1.0096 |
| #1 | -.00175 | 94.765 | .04694 | .01894 | .32380 | .00438 | .00290 | 8.2569 | .00225 | .05858 |
| #2 | -.00239 | 95.558 | .04927 | .01858 | .32459 | .00452 | .00448 | 8.3281 | .00205 | .05942 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11586** | **.29603** | **183.56** | **8.5174** | **.15226** | **30.582** | **7.1154** | **.00523** | **.57140** | **.13632** |
| Stddev | .00114 | .00004 | .26 | .0830 | .00144 | .043 | .0477 | .00014 | .00946 | .00110 |
| %RSD | .98682 | .01444 | .14398 | .97417 | .94392 | .14105 | .67038 | 2.6206 | 1.6560 | .80546 |
| #1 | .11505 | .29606 | 183.37 | 8.4587 | .15124 | 30.551 | 7.1491 | .00533 | .56471 | .13554 |
| #2 | .11667 | .29600 | 183.75 | 8.5760 | .15328 | 30.612 | 7.0817 | .00513 | .57809 | .13709 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.6193** | **.07702** | **.40129** | **-.00110** | **.00238** | **2.8010** | **5.9942** | **.00413** | **.02684** | **.03053** |
| Stddev | .0228 | .00023 | .00545 | .00324 | .00346 | .0305 | .0652 | .00052 | .00000 | .00137 |
| %RSD | .62990 | .29888 | 1.3583 | 294.82 | 145.15 | 1.0882 | 1.0882 | 12.574 | .01245 | 4.4901 |
| #1 | 3.6032 | .07718 | .39744 | -.00339 | -.00006 | 2.7795 | 5.9481 | .00450 | .02683 | .03150 |
| #2 | 3.6354 | .07686 | .40515 | .00119 | .00483 | 2.8226 | 6.0403 | .00376 | .02684 | .02956 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50454** | **-.00207** | F **-.25826** | **.15751** | **.46316** | **.02735** |
| Stddev | .00401 | .00091 | .00589 | .00021 | .00009 | .00109 |
| %RSD | .79397 | 43.848 | 2.2793 | .13121 | .01959 | 3.9876 |
| #1 | .50737 | -.00271 | -.26243 | .15766 | .46322 | .02812 |
| #2 | .50171 | -.00143 | -.25410 | .15736 | .46310 | .02658 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9926.5** | **120270.** | **10170.** |
| Stddev | 9.4 | 413. | 21. |
| %RSD | .09482 | .34308 | .20885 |
| #1 | 9933.2 | 119980. | 10185. |
| #2 | 9919.8 | 120560. | 10155. |

Sample Name: 280-45020-a-23-d  Acquired: 8/15/2013 17:44:14  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00208** | **83.155** | **.04732** | **.01777** | **.32778** | **.00421** | **.00452** | **9.9523** | **.00196** | **.06536** |
| Stddev | .00053 | .076 | .00097 | .00014 | .00059 | .00000 | .00027 | .0122 | .00017 | .00012 |
| %RSD | 25.513 | .09081 | 2.0537 | .80205 | .18062 | .00273 | 5.9329 | .12256 | 8.7441 | .19115 |
| #1 | -.00170 | 83.102 | .04801 | .01787 | .32820 | .00421 | .00471 | 9.9609 | .00208 | .06527 |
| #2 | -.00245 | 83.208 | .04663 | .01767 | .32736 | .00421 | .00433 | 9.9437 | .00184 | .06545 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10510** | **.41841** | **204.39** | **8.2486** | **.15692** | **33.887** | **9.8407** | **.00342** | **.45626** | **.14623** |
| Stddev | .00026 | .00023 | .65 | .0449 | .00193 | .006 | .1545 | .00007 | .00349 | .00036 |
| %RSD | .24356 | .05449 | .31867 | .54402 | 1.2294 | .01785 | 1.5705 | 2.1208 | .76584 | .24717 |
| #1 | .10492 | .41825 | 204.85 | 8.2168 | .15828 | 33.883 | 9.7314 | .00347 | .45379 | .14597 |
| #2 | .10528 | .41857 | 203.93 | 8.2803 | .15555 | 33.891 | 9.9500 | .00337 | .45873 | .14648 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.5484** | **.06455** | **.12296** | **-.00243** | **.00204** | **2.0378** | **4.3608** | **.00292** | **.03969** | **.02611** |
| Stddev | .0030 | .00000 | .00110 | .00179 | .00440 | .0526 | .1126 | .00053 | .00007 | .00276 |
| %RSD | .06662 | .00127 | .89280 | 73.965 | 215.71 | 2.5809 | 2.5809 | 17.981 | .18594 | 10.589 |
| #1 | 4.5506 | .06455 | .12219 | -.00369 | .00515 | 2.0750 | 4.4404 | .00255 | .03975 | .02806 |
| #2 | 4.5463 | .06455 | .12374 | -.00116 | -.00107 | 2.0006 | 4.2812 | .00329 | .03964 | .02415 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27415** | **-.00046** | F **-.18996** | **.14854** | **.51939** | **.05071** |
| Stddev | .00025 | .00058 | .02197 | .00011 | .00009 | .00097 |
| %RSD | .09021 | 124.98 | 11.565 | .07639 | .01785 | 1.9189 |
| #1 | .27432 | -.00087 | -.17442 | .14846 | .51945 | .05140 |
| #2 | .27397 | -.00005 | -.20549 | .14862 | .51932 | .05002 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10322.** | **126260.** | **10570.** |
| Stddev | 35. | 68. | 10. |
| %RSD | .34191 | .05418 | .09319 |
| #1 | 10298. | 126220. | 10577. |
| #2 | 10347. | 126310. | 10563. |

Sample Name: 280-45020-a-26-h  Acquired: 8/15/2013 17:46:33  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00139** | **97.140** | **.04446** | **.01708** | **.31801** | **.00454** | **.00575** | **10.443** | **.00208** | **.06710** |
| Stddev | .00022 | .460 | .00036 | .00054 | .00225 | .00002 | .00009 | .063 | .00002 | .00011 |
| %RSD | 16.102 | .47386 | .81697 | 3.1493 | .70883 | .38911 | 1.5151 | .59889 | .90065 | .16754 |
| #1 | -.00155 | 96.815 | .04471 | .01670 | .31642 | .00455 | .00581 | 10.399 | .00207 | .06718 |
| #2 | -.00123 | 97.466 | .04420 | .01746 | .31961 | .00453 | .00569 | 10.487 | .00209 | .06702 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13249** | **.34159** | **214.94** | **8.6684** | **.18296** | **38.902** | **8.8600** | **.00519** | **.55115** | **.16153** |
| Stddev | .00006 | .00025 | 1.77 | .0142 | .00482 | .005 | .0109 | .00008 | .01107 | .00058 |
| %RSD | .04254 | .07183 | .82204 | .16343 | 2.6330 | .01384 | .12344 | 1.5170 | 2.0086 | .36169 |
| #1 | .13245 | .34142 | 213.69 | 8.6784 | .17956 | 38.906 | 8.8523 | .00513 | .54332 | .16195 |
| #2 | .13253 | .34177 | 216.19 | 8.6584 | .18637 | 38.898 | 8.8677 | .00524 | .55898 | .16112 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.3889** | **.06689** | **.17779** | **-.00406** | **.00029** | **1.9201** | **4.1089** | **.00333** | **.04097** | **.02779** |
| Stddev | .0019 | .00098 | .00047 | .00142 | .00236 | .0562 | .1203 | .00007 | .00050 | .00235 |
| %RSD | .04297 | 1.4629 | .26340 | 34.894 | 829.02 | 2.9274 | 2.9274 | 2.2336 | 1.2212 | 8.4497 |
| #1 | 4.3902 | .06758 | .17746 | -.00306 | -.00139 | 1.8803 | 4.0239 | .00339 | .04062 | .02945 |
| #2 | 4.3876 | .06620 | .17812 | -.00507 | .00196 | 1.9598 | 4.1940 | .00328 | .04132 | .02613 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29296** | **-.00135** | F **-.23989** | **.16131** | **.51248** | **.05039** |
| Stddev | .00015 | .00043 | .00610 | .00034 | .00291 | .00042 |
| %RSD | .05154 | 31.473 | 2.5442 | .21223 | .56729 | .83544 |
| #1 | .29285 | -.00105 | -.24421 | .16107 | .51454 | .05009 |
| #2 | .29307 | -.00165 | -.23558 | .16155 | .51042 | .05069 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10377.** | **126260.** | **10643.** |
| Stddev | 6. | 783. | 66. |
| %RSD | .05730 | .62039 | .62044 |
| #1 | 10373. | 125710. | 10690. |
| #2 | 10381. | 126820. | 10596. |

Sample Name: 280-45020-a-26-hSD@5 Acquired: 8/15/2013 17:48:58 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **22.555** | **.01085** | **.00489** | **.07385** | **.00101** | **.00404** | **2.4651** | **.00048** | **.01590** |
| Stddev | .00014 | .113 | .00069 | .00009 | .00044 | .00006 | .00087 | .0248 | .00015 | .00002 |
| %RSD | 34.899 | .49914 | 6.3621 | 1.9238 | .59295 | 5.9539 | 21.649 | 1.0046 | 31.505 | .15401 |
| #1 | -.00051 | 22.476 | .01134 | .00495 | .07354 | .00106 | .00342 | 2.4476 | .00058 | .01588 |
| #2 | -.00031 | 22.635 | .01036 | .00482 | .07416 | .00097 | .00466 | 2.4826 | .00037 | .01592 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03070** | **.07828** | **50.767** | **1.9766** | **.04112** | **8.9550** | **2.1386** | **.00119** | **.16373** | **.03834** |
| Stddev | .00012 | .00096 | .411 | .0404 | .00156 | .0002 | .0012 | .00042 | .01203 | .00014 |
| %RSD | .39560 | 1.2254 | .80957 | 2.0425 | 3.8040 | .00197 | .05412 | 34.962 | 7.3453 | .36980 |
| #1 | .03078 | .07896 | 50.477 | 1.9481 | .04002 | 8.9548 | 2.1378 | .00089 | .15522 | .03844 |
| #2 | .03061 | .07760 | 51.058 | 2.0051 | .04223 | 8.9551 | 2.1395 | .00148 | .17223 | .03824 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0015** | **.01466** | **.03824** | **.00059** | **-.00149** | **.47048** | **1.0068** | **.00019** | **.00951** | **.00670** |
| Stddev | .0011 | .00163 | .00234 | .00051 | .00070 | .02193 | .0469 | .00003 | .00023 | .00009 |
| %RSD | .11283 | 11.087 | 6.1183 | 85.172 | 46.758 | 4.6610 | 4.6610 | 14.145 | 2.4590 | 1.3476 |
| #1 | 1.0023 | .01351 | .03658 | .00095 | -.00198 | .45498 | .97365 | .00021 | .00934 | .00663 |
| #2 | 1.0007 | .01581 | .03989 | .00024 | -.00100 | .48599 | 1.0400 | .00017 | .00968 | .00676 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06704** | **.00013** | W **-.08106** | **.03675** | **.12098** | **.01645** |
| Stddev | .00049 | .00000 | .01426 | .00019 | .00002 | .00257 |
| %RSD | .73501 | 1.7278 | 17.593 | .51610 | .01528 | 15.625 |
| #1 | .06669 | .00013 | -.07097 | .03662 | .12100 | .01463 |
| #2 | .06738 | .00013 | -.09114 | .03689 | .12097 | .01827 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9025.6** | **111110.** | **9081.4** |
| Stddev | 22.1 | 402. | 62.1 |
| %RSD | .24534 | .36193 | .68414 |
| #1 | 9009.9 | 110830. | 9125.4 |
| #2 | 9041.2 | 111400. | 9037.5 |

Sample Name: 280-45020-a-26-i ms  Acquired: 8/15/2013 17:51:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03985** | **123.26** | **.86687** | **.79201** | **2.0373** | **.04574** | F **1.7108** | **50.456** | **.08851** | **.45568** |
| Stddev | .00044 | .23 | .00334 | .00024 | .0011 | .00001 | .0017 | .046 | .00011 | .00013 |
| %RSD | 1.1038 | .18947 | .38522 | .03067 | .05264 | .02081 | .10182 | .09114 | .12390 | .02774 |
| #1 | .04016 | 123.09 | .86924 | .79184 | 2.0366 | .04574 | 1.7121 | 50.424 | .08859 | .45559 |
| #2 | .03954 | 123.42 | .86451 | .79218 | 2.0381 | .04573 | 1.7096 | 50.489 | .08844 | .45577 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30622** | **.58900** | **199.93** | **60.977** | **.98233** | **76.225** | **7.2228** | **.77426** | **43.309** | **.53631** |
| Stddev | .00033 | .00163 | .09 | .021 | .00051 | .436 | .0372 | .00173 | .287 | .00030 |
| %RSD | .10730 | .27699 | .04268 | .03412 | .05204 | .57231 | .51460 | .22306 | .66277 | .05545 |
| #1 | .30646 | .58784 | 199.87 | 60.992 | .98269 | 75.916 | 7.1965 | .77548 | 43.512 | .53610 |
| #2 | .30599 | .59015 | 199.99 | 60.962 | .98197 | 76.533 | 7.2491 | .77304 | 43.106 | .53652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.365** | **.47449** | **.24943** | **.19144** | **1.5937** | **5.5241** | **11.822** | **1.5007** | **.86729** | **.79783** |
| Stddev | .001 | .00154 | .00301 | .00049 | .0101 | .0577 | .123 | .0091 | .00077 | .00082 |
| %RSD | .00432 | .32538 | 1.2076 | .25810 | .63313 | 1.0435 | 1.0435 | .60886 | .08935 | .10218 |
| #1 | 12.364 | .47340 | .24730 | .19179 | 1.5865 | 5.5649 | 11.909 | 1.4943 | .86674 | .79841 |
| #2 | 12.365 | .47558 | .25156 | .19109 | 1.6008 | 5.4834 | 11.734 | 1.5072 | .86784 | .79725 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.2219** | **1.5256** | **1.4328** | **.62116** | **.85626** | **.41129** |
| Stddev | .0043 | .0020 | .0042 | .00266 | .00113 | .00070 |
| %RSD | .35008 | .12872 | .29623 | .42836 | .13255 | .16972 |
| #1 | 1.2189 | 1.5242 | 1.4358 | .61928 | .85706 | .41178 |
| #2 | 1.2249 | 1.5270 | 1.4298 | .62304 | .85545 | .41080 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10289.** | **125210.** | **10701.** |
| Stddev | . | 169. | 11. |
| %RSD | .00328 | .13463 | .10706 |
| #1 | 10288. | 125330. | 10709. |
| #2 | 10289. | 125100. | 10693. |

Sample Name: 280-45020-a-26-j msd  Acquired: 8/15/2013 17:53:31  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04028** | **123.59** | **.90881** | **.82897** | **2.1519** | **.04717** | F **1.7693** | **51.631** | **.09155** | **.47683** |
| Stddev | .00036 | .01 | .00283 | .00063 | .0051 | .00013 | .0020 | .025 | .00021 | .00036 |
| %RSD | .88884 | .00598 | .31161 | .07570 | .23761 | .27894 | .11197 | .04822 | .23094 | .07524 |
| #1 | .04053 | 123.59 | .90681 | .82853 | 2.1483 | .04708 | 1.7707 | 51.614 | .09170 | .47708 |
| #2 | .04002 | 123.60 | .91082 | .82941 | 2.1555 | .04727 | 1.7679 | 51.649 | .09140 | .47657 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31738** | **.55485** | **216.42** | **64.552** | **1.0097** | **76.003** | **8.9017** | **.80554** | **45.132** | **.55490** |
| Stddev | .00020 | .00208 | .43 | .010 | .0022 | .404 | .1309 | .00052 | .220 | .00041 |
| %RSD | .06169 | .37438 | .19824 | .01473 | .22223 | .53213 | 1.4702 | .06430 | .48683 | .07300 |
| #1 | .31752 | .55632 | 216.12 | 64.559 | 1.0082 | 76.289 | 8.8092 | .80591 | 45.287 | .55461 |
| #2 | .31724 | .55338 | 216.72 | 64.545 | 1.0113 | 75.717 | 8.9943 | .80517 | 44.976 | .55519 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.729** | **.49152** | **.25396** | **.19094** | **1.6587** | **6.3802** | **13.654** | **1.5595** | **.89951** | **.83364** |
| Stddev | .003 | .00138 | .00157 | .00209 | .0018 | .0734 | .157 | .0041 | .00177 | .00606 |
| %RSD | .02082 | .28107 | .61673 | 1.0968 | .10570 | 1.1506 | 1.1506 | .26536 | .19674 | .72695 |
| #1 | 12.731 | .49250 | .25285 | .18946 | 1.6599 | 6.4321 | 13.765 | 1.5566 | .89826 | .83792 |
| #2 | 12.727 | .49054 | .25507 | .19242 | 1.6574 | 6.3283 | 13.543 | 1.5624 | .90076 | .82935 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.4010** | **1.5773** | **1.5194** | **.65411** | **.92046** | **.45741** |
| Stddev | .0051 | .0065 | .0286 | .00087 | .00098 | .00073 |
| %RSD | .36228 | .41170 | 1.8818 | .13253 | .10615 | .15944 |
| #1 | 1.4046 | 1.5727 | 1.5396 | .65350 | .91977 | .45793 |
| #2 | 1.3974 | 1.5819 | 1.4991 | .65472 | .92115 | .45690 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10270.** | **124810.** | **10836.** |
| Stddev | 46. | 448. | 102. |
| %RSD | .44449 | .35861 | .93856 |
| #1 | 10238. | 125130. | 10764. |
| #2 | 10302. | 124500. | 10907. |

Sample Name: 280-45020-a-26-hPDS  Acquired: 8/15/2013 17:55:54  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03782** | **96.381** | **.19716** | **.09897** | **.39119** | **.04216** | **.00174** | **25.470** | **.04161** | **.10371** |
| Stddev | .00006 | .269 | .00514 | .00051 | .00158 | .00024 | .00201 | .071 | .00018 | .00014 |
| %RSD | .16719 | .27927 | 2.6045 | .51850 | .40514 | .56185 | 115.45 | .28002 | .43588 | .13799 |
| #1 | .03777 | 96.190 | .20080 | .09861 | .39007 | .04199 | .00032 | 25.420 | .04148 | .10381 |
| #2 | .03786 | 96.571 | .19353 | .09933 | .39231 | .04233 | .00316 | 25.521 | .04174 | .10360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16867** | **.37646** | **212.58** | **24.208** | **.25834** | **53.327** | **8.7910** | **.04746** | **17.556** | **.19611** |
| Stddev | .00004 | .00050 | .66 | .111 | .00109 | .154 | .0478 | .00021 | .009 | .00059 |
| %RSD | .02660 | .13349 | .31011 | .45704 | .42076 | .28944 | .54311 | .43658 | .05015 | .30014 |
| #1 | .16870 | .37611 | 212.11 | 24.130 | .25911 | 53.436 | 8.7573 | .04760 | 17.550 | .19653 |
| #2 | .16864 | .37682 | 213.04 | 24.286 | .25757 | 53.218 | 8.8248 | .04731 | 17.563 | .19570 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.8125** | **.14078** | **.16901** | **.07891** | **.15292** | **6.0531** | **12.954** | **.08467** | **.07919** | **.17676** |
| Stddev | .0155 | .00001 | .00003 | .00092 | .00342 | .0274 | .059 | .00022 | .00029 | .00194 |
| %RSD | .26611 | .00911 | .01830 | 1.1687 | 2.2347 | .45208 | .45208 | .26032 | .36374 | 1.0997 |
| #1 | 5.8016 | .14077 | .16899 | .07826 | .15051 | 6.0338 | 12.912 | .08451 | .07899 | .17813 |
| #2 | 5.8235 | .14078 | .16903 | .07956 | .15534 | 6.0725 | 12.995 | .08482 | .07940 | .17539 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.33318** | **.14589** | **.15415** | **.19880** | **.65275** | **.09195** |
| Stddev | .00350 | .00075 | .01055 | .00047 | .00027 | .00056 |
| %RSD | 1.0503 | .51211 | 6.8457 | .23583 | .04184 | .60481 |
| #1 | .33566 | .14537 | .14669 | .19846 | .65294 | .09155 |
| #2 | .33071 | .14642 | .16161 | .19913 | .65256 | .09234 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10265.** | **124490.** | **10631.** |
| Stddev | 19. | 651. | 1. |
| %RSD | .18645 | .52260 | .00836 |
| #1 | 10252. | 124030. | 10631. |
| #2 | 10279. | 124950. | 10630. |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 17:58:15 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **50.037** | **.00115** | **.00312** | **.00077** | **-.00005** | **1.0333** | **-.00499** | **.00013** | **.00022** | **-.00022** | **.00295** | **50.295** |
| Stddev | .00014 | .160 | .00253 | .00014 | .00030 | .00002 | .0052 | .00298 | .00008 | .00019 | .00005 | .00007 | .259 |
| %RSD | 72.379 | .31920 | 219.04 | 4.4434 | 38.434 | 31.504 | .50694 | 59.647 | 61.051 | 85.242 | 20.309 | 2.5415 | .51431 |
| #1 | .00030 | 49.924 | .00294 | .00302 | .00098 | -.00006 | 1.0370 | -.00289 | .00007 | .00035 | -.00026 | .00289 | 50.112 |
| #2 | .00010 | 50.150 | -.00063 | .00321 | .00056 | -.00004 | 1.0296 | -.00710 | .00018 | .00009 | -.00019 | .00300 | 50.478 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20782** | **.00178** | **-.00214** | **.00017** | **.00022** | **253.01** | **.00109** | **.00465** | **.00025** | **5.0126** | **-.00039** | **-.00265** | **.02598** |
| Stddev | .04885 | .00622 | .00577 | .00004 | .00006 | .23 | .00040 | .00130 | .00016 | .0342 | .00069 | .00202 | .00501 |
| %RSD | 23.506 | 348.93 | 269.48 | 23.336 | 28.556 | .09140 | 37.007 | 27.925 | 64.123 | .68140 | 174.38 | 76.100 | 19.276 |
| #1 | .24236 | .00618 | -.00622 | .00020 | .00018 | 252.85 | .00137 | .00556 | .00013 | 5.0368 | .00009 | -.00122 | .02952 |
| #2 | .17328 | -.00262 | .00194 | .00014 | .00027 | 253.18 | .00080 | .00373 | .00036 | 4.9885 | -.00088 | -.00408 | .02244 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05560** | **-.00038** | **.00038** | **4.8590** | **-.00004** | **.00167** | **10.267** | **.00070** | **.00086** | **.02589** |
| Stddev | .01072 | .00083 | .00001 | .0059 | .00062 | .00079 | .051 | .00060 | .00009 | .00360 |
| %RSD | 19.276 | 216.79 | 1.3492 | .12030 | 1645.9 | 47.648 | .49677 | 85.951 | 10.958 | 13.895 |
| #1 | .06317 | -.00097 | .00038 | 4.8549 | -.00048 | .00223 | 10.231 | .00027 | .00092 | .02335 |
| #2 | .04802 | .00020 | .00037 | 4.8631 | .00040 | .00111 | 10.303 | .00112 | .00079 | .02844 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8396.4** | **102650.** | **8697.8** |
| Stddev | 7.2 | 359. | 41.6 |
| %RSD | .08577 | .34932 | .47782 |
| #1 | 8401.5 | 102910. | 8727.2 |
| #2 | 8391.3 | 102400. | 8668.4 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 18:00:36 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49685** | **.51142** | **.99966** | **.51043** | **.50291** | **.49873** | **.00358** | **5.0261** | **.50800** | **.50552** | **.50178** | **.50214** | **2.5341** |
| Stddev | .00040 | .00067 | .00022 | .00122 | .00157 | .00090 | .00245 | .0048 | .00056 | .00017 | .00005 | .00071 | .0026 |
| %RSD | .08098 | .13161 | .02216 | .23922 | .31214 | .18032 | 68.330 | .09467 | .11105 | .03297 | .01046 | .14157 | .10124 |
| #1 | .49713 | .51095 | .99982 | .50957 | .50402 | .49936 | .00532 | 5.0294 | .50760 | .50540 | .50182 | .50264 | 2.5323 |
| #2 | .49656 | .51190 | .99951 | .51130 | .50180 | .49809 | .00185 | 5.0227 | .50840 | .50564 | .50175 | .50164 | 2.5360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.099** | **.98013** | **19.481** | **.49297** | **.50415** | **5.1242** | **.50567** | **1.0057** | **1.0179** | **-.00833** | **1.0125** | **1.0094** | **4.9611** |
| Stddev | .121 | .00500 | .044 | .00186 | .00015 | .0101 | .00095 | .0004 | .0024 | .00077 | .0008 | .0006 | .0057 |
| %RSD | .24115 | .50966 | .22812 | .37781 | .02984 | .19764 | .18705 | .03483 | .23103 | 9.2127 | .08403 | .05720 | .11405 |
| #1 | 50.014 | .98366 | 19.513 | .49429 | .50426 | 5.1171 | .50500 | 1.0059 | 1.0163 | -.00887 | 1.0131 | 1.0090 | 4.9651 |
| #2 | 50.185 | .97659 | 19.450 | .49166 | .50405 | 5.1314 | .50633 | 1.0054 | 1.0196 | -.00779 | 1.0119 | 1.0098 | 4.9571 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.617** | **1.0108** | **.49871** | **-.00463** | **.49495** | **1.0364** | **-.00327** | **.49863** | **.49160** | **.50093** |
| Stddev | .012 | .0013 | .00046 | .00291 | .00102 | .0084 | .01271 | .00033 | .00025 | .00098 |
| %RSD | .11405 | .12731 | .09177 | 62.948 | .20566 | .81264 | 388.93 | .06708 | .05115 | .19602 |
| #1 | 10.625 | 1.0117 | .49838 | -.00257 | .49567 | 1.0423 | -.01225 | .49887 | .49142 | .50163 |
| #2 | 10.608 | 1.0099 | .49903 | -.00669 | .49423 | 1.0304 | .00572 | .49840 | .49178 | .50024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8619.2** | **105730.** | **8757.8** |
| Stddev | 6.5 | 107. | 4.9 |
| %RSD | .07488 | .10134 | .05585 |
| #1 | 8614.6 | 105810. | 8761.3 |
| #2 | 8623.8 | 105650. | 8754.4 |

Sample Name: CCB  Acquired: 8/15/2013 18:02:42  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00034** | **.00394** | **.00193** | **.00031** | **.00002** | **.00388** | **-.00056** | **.00012** | **.00004** | **-.00008** | **-.00054** |
| Stddev | .00012 | .00007 | .00061 | .00015 | .00070 | .00005 | .00074 | .00406 | .00022 | .00001 | .00004 | .00017 |
| %RSD | 21.910 | 20.212 | 15.389 | 8.0130 | 225.43 | 285.57 | 19.118 | 730.97 | 185.97 | 27.523 | 52.424 | 31.326 |
| #1 | .00063 | .00039 | .00352 | .00204 | -.00018 | .00005 | .00336 | -.00342 | .00028 | .00003 | -.00005 | -.00042 |
| #2 | .00046 | .00029 | .00437 | .00182 | .00081 | -.00002 | .00440 | .00231 | -.00004 | .00004 | -.00011 | -.00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.07268** | **-.00117** | **.00162** | **.00011** | **.00088** | **.06901** | **.00031** | **.00130** | **-.00199** | **-.00320** | W **.00615** |
| Stddev | .00080 | .01394 | .00059 | .00224 | .00003 | .00039 | .00279 | .00001 | .00012 | .00087 | .00066 | .00178 |
| %RSD | 226.47 | 19.179 | 50.148 | 138.84 | 28.032 | 44.930 | 4.0482 | 3.3202 | 9.4658 | 43.575 | 20.585 | 28.909 |
| #1 | -.00021 | .06282 | -.00159 | .00320 | .00009 | .00060 | .07098 | .00032 | .00138 | -.00137 | -.00367 | .00489 |
| #2 | .00092 | .08254 | -.00076 | .00003 | .00013 | .00115 | .06703 | .00030 | .00121 | -.00260 | -.00274 | .00741 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00167** | **.02661** | **.05694** | **-.00071** | **-.00001** | **.00143** | **.00013** | **-.00037** | **-.04076** | **-.00089** | **.00100** | **.00217** |
| Stddev | .00139 | .00438 | .00938 | .00034 | .00002 | .00107 | .00017 | .00096 | .00226 | .00042 | .00004 | .00069 |
| %RSD | 83.420 | 16.477 | 16.477 | 48.051 | 243.19 | 75.050 | 126.44 | 259.88 | 5.5520 | 47.181 | 4.3214 | 31.855 |
| #1 | .00266 | .02971 | .06358 | -.00047 | -.00002 | .00067 | .00001 | .00031 | -.03916 | -.00118 | .00097 | .00266 |
| #2 | .00069 | .02351 | .05031 | -.00095 | .00001 | .00219 | .00025 | -.00104 | -.04236 | -.00059 | .00103 | .00168 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8582.2** | **106170.** | **8598.8** |
| Stddev | 17.8 | 138. | 24.2 |
| %RSD | .20709 | .13008 | .28108 |
| #1 | 8569.7 | 106070. | 8581.7 |
| #2 | 8594.8 | 106270. | 8615.9 |

Sample Name: CCVL-2200397 Acquired: 8/15/2013 18:04:56 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01041** | **.10453** | **.01576** | **.09415** | **.01050** | **.00093** | **.11062** | **.20365** | **.00529** | **.01030** | **.01030** | **.01483** | **.10313** |
| Stddev | .00075 | .00012 | .00240 | .00053 | .00028 | .00001 | .00440 | .00599 | .00001 | .00012 | .00010 | .00024 | .00245 |
| %RSD | 7.2245 | .11390 | 15.249 | .56048 | 2.6614 | 1.5901 | 3.9765 | 2.9392 | .20432 | 1.1251 | .98973 | 1.6022 | 2.3772 |
| #1 | .00988 | .10462 | .01406 | .09453 | .01069 | .00092 | .10751 | .19941 | .00529 | .01022 | .01037 | .01500 | .10139 |
| #2 | .01094 | .10445 | .01746 | .09378 | .01030 | .00094 | .11373 | .20788 | .00530 | .01039 | .01023 | .01466 | .10486 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1337** | **.00913** | **.19967** | **.01005** | **.01977** | **1.0900** | **.04109** | **2.8237** | **.00758** | **-.00502** | F **.00523** | **.01476** | **.49766** |
| Stddev | .0181 | .00223 | .00252 | .00003 | .00021 | .0119 | .00033 | .0093 | .00028 | .00092 | .00092 | .00147 | .01162 |
| %RSD | .57934 | 24.414 | 1.2617 | .31121 | 1.0522 | 1.0905 | .80167 | .32831 | 3.7042 | 18.297 | 17.558 | 9.9694 | 2.3348 |
| #1 | 3.1209 | .00755 | .20145 | .01003 | .01962 | 1.0816 | .04132 | 2.8303 | .00777 | -.00567 | .00458 | .01372 | .48944 |
| #2 | 3.1465 | .01070 | .19789 | .01008 | .01992 | 1.0984 | .04085 | 2.8172 | .00738 | -.00437 | .00588 | .01580 | .50587 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0650** | **.10011** | **.01004** | **.01350** | **.01002** | **.01588** | **.06238** | **.00946** | **.02131** | F **.01953** |
| Stddev | .0249 | .00069 | .00008 | .00026 | .00019 | .00063 | .01274 | .00050 | .00046 | .00071 |
| %RSD | 2.3348 | .68958 | .82197 | 1.9311 | 1.8938 | 3.9706 | 20.422 | 5.3344 | 2.1746 | 3.6355 |
| #1 | 1.0474 | .10060 | .00998 | .01332 | .01015 | .01544 | .05338 | .00910 | .02098 | .01903 |
| #2 | 1.0826 | .09962 | .01010 | .01369 | .00988 | .01633 | .07139 | .00982 | .02164 | .02003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8637.2** | **107310.** | **8651.7** |
| Stddev | 8.7 | 516. | 11.9 |
| %RSD | .10028 | .48094 | .13803 |
| #1 | 8643.4 | 107680. | 8643.3 |
| #2 | 8631.1 | 106950. | 8660.2 |

Sample Name: 280-45020-a-24-f  Acquired: 8/15/2013 18:07:12  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00101** | **96.503** | **.04819** | **.01984** | **.28720** | **.00433** | **.00496** | **12.019** | **.00180** | **.07630** |
| Stddev | .00025 | .419 | .00132 | .00051 | .00122 | .00002 | .00003 | .043 | .00003 | .00045 |
| %RSD | 24.532 | .43412 | 2.7460 | 2.5586 | .42595 | .41071 | .62486 | .35890 | 1.7464 | .58807 |
| #1 | -.00084 | 96.207 | .04912 | .02020 | .28633 | .00432 | .00494 | 11.988 | .00178 | .07662 |
| #2 | -.00119 | 96.799 | .04725 | .01948 | .28806 | .00435 | .00498 | 12.049 | .00182 | .07598 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12946** | **.38890** | **224.66** | **9.9860** | **.21283** | **42.541** | **6.8974** | **.00456** | **.47786** | **.17292** |
| Stddev | .00059 | .00007 | 1.17 | .0224 | .00206 | .135 | .0735 | .00031 | .01691 | .00139 |
| %RSD | .45633 | .01696 | .52121 | .22475 | .96964 | .31758 | 1.0653 | 6.7744 | 3.5396 | .80198 |
| #1 | .12988 | .38885 | 223.83 | 9.9702 | .21429 | 42.637 | 6.9494 | .00434 | .48982 | .17390 |
| #2 | .12904 | .38895 | 225.49 | 10.002 | .21137 | 42.446 | 6.8455 | .00478 | .46590 | .17194 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.3610** | **.07387** | **.14059** | **-.00231** | **-.00106** | **2.3511** | **5.0313** | **.00372** | **.04743** | **.02527** |
| Stddev | .0274 | .00064 | .00308 | .00025 | .00135 | .0456 | .0975 | .00062 | .00011 | .00186 |
| %RSD | .62921 | .86306 | 2.1942 | 10.701 | 127.54 | 1.9382 | 1.9382 | 16.569 | .24022 | 7.3615 |
| #1 | 4.3804 | .07342 | .14277 | -.00214 | -.00010 | 2.3833 | 5.1003 | .00328 | .04735 | .02658 |
| #2 | 4.3416 | .07432 | .13841 | -.00249 | -.00202 | 2.3189 | 4.9624 | .00416 | .04751 | .02395 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35897** | **-.00218** | F **-.17530** | **.16220** | **.53106** | **.05596** |
| Stddev | .00496 | .00114 | .01034 | .00011 | .00235 | .00211 |
| %RSD | 1.3825 | 52.563 | 5.8975 | .07002 | .44343 | 3.7672 |
| #1 | .35546 | -.00299 | -.18261 | .16212 | .53273 | .05447 |
| #2 | .36248 | -.00137 | -.16799 | .16228 | .52940 | .05746 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9886.0** | **120610.** | **10130.** |
| Stddev | 37.8 | 98. | 58. |
| %RSD | .38230 | .08136 | .57142 |
| #1 | 9912.8 | 120540. | 10171. |
| #2 | 9859.3 | 120670. | 10089. |

Sample Name: 280-45026-a-1-b  Acquired: 8/15/2013 18:09:36  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00050** | **34.702** | **.02153** | **.01314** | **.10977** | **.00158** | **.00258** | **17.321** | **.00077** | **.03020** |
| Stddev | .00007 | .015 | .00082 | .00038 | .00011 | .00002 | .00021 | .018 | .00003 | .00013 |
| %RSD | 13.818 | .04188 | 3.7850 | 2.8589 | .10165 | 1.1031 | 8.0096 | .10346 | 3.5426 | .43448 |
| #1 | -.00055 | 34.712 | .02211 | .01288 | .10985 | .00156 | .00244 | 17.334 | .00075 | .03011 |
| #2 | -.00046 | 34.691 | .02096 | .01341 | .10969 | .00159 | .00273 | 17.309 | .00079 | .03029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03917** | **.07878** | **73.888** | **4.9971** | **.05864** | **16.020** | **2.4865** | **.00054** | **.21067** | **.05923** |
| Stddev | .00005 | .00061 | .169 | .0311 | .00354 | .015 | .0040 | .00005 | .00846 | .00054 |
| %RSD | .11778 | .77239 | .22846 | .62324 | 6.0316 | .09337 | .16117 | 8.8753 | 4.0179 | .91466 |
| #1 | .03921 | .07921 | 74.008 | 4.9751 | .05614 | 16.009 | 2.4836 | .00057 | .21665 | .05961 |
| #2 | .03914 | .07835 | 73.769 | 5.0191 | .06114 | 16.031 | 2.4893 | .00051 | .20468 | .05884 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.6237** | **.02003** | **.13914** | **-.00218** | **.00085** | **1.8034** | **3.8594** | **.00343** | **.05222** | **.01450** |
| Stddev | .0091 | .00095 | .00305 | .00026 | .00182 | .0133 | .0284 | .00080 | .00001 | .00093 |
| %RSD | .34500 | 4.7645 | 2.1906 | 11.905 | 214.02 | .73580 | .73580 | 23.417 | .02075 | 6.3855 |
| #1 | 2.6301 | .02070 | .14129 | -.00237 | .00214 | 1.8128 | 3.8794 | .00400 | .05221 | .01385 |
| #2 | 2.6173 | .01935 | .13698 | -.00200 | -.00044 | 1.7941 | 3.8393 | .00287 | .05222 | .01516 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22145** | **-.00059** | F **-.12359** | **.06219** | **.14149** | **.02963** |
| Stddev | .00030 | .00054 | .01952 | .00027 | .00035 | .00124 |
| %RSD | .13711 | 92.019 | 15.791 | .43030 | .25048 | 4.1865 |
| #1 | .22124 | -.00097 | -.10979 | .06200 | .14124 | .03050 |
| #2 | .22167 | -.00021 | -.13739 | .06238 | .14174 | .02875 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9092.3** | **111880.** | **9193.1** |
| Stddev | 28.2 | 32. | 59.8 |
| %RSD | .30992 | .02862 | .65046 |
| #1 | 9072.4 | 111850. | 9150.8 |
| #2 | 9112.2 | 111900. | 9235.4 |

Sample Name: 280-45026-a-2-b  Acquired: 8/15/2013 18:11:56  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **32.054** | **.02108** | **.01341** | **.10397** | **.00139** | **-.00081** | **20.486** | **.00052** | **.02608** |
| Stddev | .00055 | .095 | .00031 | .00012 | .00021 | .00002 | .00124 | .017 | .00010 | .00050 |
| %RSD | 160.44 | .29543 | 1.4803 | .87687 | .20201 | 1.5690 | 152.10 | .08206 | 18.710 | 1.8989 |
| #1 | -.00073 | 31.987 | .02085 | .01333 | .10382 | .00138 | -.00169 | 20.474 | .00045 | .02573 |
| #2 | .00005 | 32.121 | .02130 | .01349 | .10411 | .00141 | .00006 | 20.498 | .00059 | .02643 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03769** | **.08193** | **70.003** | **4.9608** | **.05371** | **15.022** | **2.3895** | **.00057** | **.21767** | **.05679** |
| Stddev | .00040 | .00004 | .468 | .0370 | .00256 | .002 | .0028 | .00000 | .01157 | .00023 |
| %RSD | 1.0678 | .05266 | .66830 | .74632 | 4.7699 | .01534 | .11549 | .73709 | 5.3136 | .40676 |
| #1 | .03741 | .08190 | 69.672 | 4.9346 | .05552 | 15.024 | 2.3915 | .00057 | .20949 | .05662 |
| #2 | .03798 | .08196 | 70.334 | 4.9869 | .05190 | 15.021 | 2.3876 | .00058 | .22585 | .05695 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.6059** | **.01765** | **.12078** | **-.00228** | **.00165** | **1.2742** | **2.7268** | **.00204** | **.04747** | **.01502** |
| Stddev | .0167 | .00006 | .00096 | .00071 | .00202 | .0013 | .0028 | .00030 | .00035 | .00022 |
| %RSD | .63929 | .31311 | .79672 | 31.036 | 122.55 | .10371 | .10371 | 14.907 | .73875 | 1.4589 |
| #1 | 2.5941 | .01761 | .12010 | -.00278 | .00307 | 1.2733 | 2.7248 | .00183 | .04722 | .01518 |
| #2 | 2.6177 | .01769 | .12146 | -.00178 | .00022 | 1.2751 | 2.7288 | .00226 | .04772 | .01487 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17164** | **-.00072** | F **-.13663** | **.05818** | **.13928** | **.02739** |
| Stddev | .00088 | .00061 | .02153 | .00009 | .00017 | .00000 |
| %RSD | .51366 | 85.395 | 15.757 | .15758 | .12108 | .01804 |
| #1 | .17102 | -.00028 | -.12140 | .05824 | .13940 | .02739 |
| #2 | .17226 | -.00115 | -.15185 | .05811 | .13917 | .02738 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9240.6** | **111970.** | **9185.4** |
| Stddev | 5.6 | 1500. | 25.5 |
| %RSD | .06039 | 1.3394 | .27734 |
| #1 | 9244.5 | 110910. | 9203.4 |
| #2 | 9236.6 | 113040. | 9167.4 |

Sample Name: 280-45026-a-3-b  Acquired: 8/15/2013 18:14:16  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00256** | **70.489** | **.04876** | **.01412** | **.30264** | **.00400** | **.00334** | **20.606** | **.00149** | **.04616** |
| Stddev | .00018 | .042 | .00022 | .00001 | .00094 | .00007 | .00130 | .019 | .00020 | .00014 |
| %RSD | 6.8826 | .05985 | .44959 | .07831 | .31096 | 1.8641 | 38.731 | .09092 | 13.538 | .30922 |
| #1 | -.00269 | 70.519 | .04891 | .01412 | .30331 | .00405 | .00426 | 20.619 | .00135 | .04606 |
| #2 | -.00244 | 70.459 | .04860 | .01413 | .30198 | .00395 | .00243 | 20.593 | .00164 | .04626 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09444** | **.32247** | **167.86** | **5.9987** | **.11394** | **24.293** | W **11.464** | **.00940** | **.37162** | **.11285** |
| Stddev | .00008 | .00074 | .32 | .0375 | .00275 | .032 | .090 | .00032 | .00170 | .00003 |
| %RSD | .08461 | .23080 | .19333 | .62557 | 2.4119 | .13139 | .78904 | 3.3939 | .45722 | .02881 |
| #1 | .09439 | .32195 | 168.09 | 6.0252 | .11588 | 24.271 | 11.528 | .00918 | .37282 | .11288 |
| #2 | .09450 | .32300 | 167.63 | 5.9721 | .11200 | 24.316 | 11.400 | .00963 | .37042 | .11283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.2009** | **.05006** | **.19727** | **-.00404** | **.00162** | **2.7497** | **5.8843** | **.00362** | **.08497** | **.02813** |
| Stddev | .0097 | .00096 | .00484 | .00402 | .00043 | .0230 | .0491 | .00029 | .00036 | .00090 |
| %RSD | .10574 | 1.9112 | 2.4553 | 99.429 | 26.770 | .83463 | .83463 | 8.1129 | .42799 | 3.2056 |
| #1 | 9.2078 | .04938 | .19384 | -.00688 | .00131 | 2.7659 | 5.9190 | .00341 | .08523 | .02749 |
| #2 | 9.1941 | .05073 | .20069 | -.00120 | .00192 | 2.7335 | 5.8496 | .00382 | .08472 | .02877 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25323** | **-.00086** | F **-.27153** | **.12653** | **.31079** | **.04197** |
| Stddev | .00544 | .00051 | .02298 | .00003 | .00045 | .00090 |
| %RSD | 2.1495 | 58.782 | 8.4646 | .01991 | .14436 | 2.1411 |
| #1 | .24938 | -.00050 | -.25528 | .12651 | .31111 | .04260 |
| #2 | .25708 | -.00122 | -.28779 | .12654 | .31047 | .04133 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10077.** | **122480.** | **10271.** |
| Stddev | 4. | 243. | 17. |
| %RSD | .04123 | .19864 | .16847 |
| #1 | 10080. | 122310. | 10283. |
| #2 | 10074. | 122650. | 10258. |

Sample Name: 280-45026-a-3-b@5 Acquired: 8/15/2013 18:16:34 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00036** | **16.183** | **.00993** | **.00381** | **.06958** | **.00092** | **.00406** | **4.7402** | **.00036** | **.01066** |
| Stddev | .00006 | .111 | .00074 | .00028 | .00036 | .00003 | .00244 | .0079 | .00017 | .00014 |
| %RSD | 17.561 | .68709 | 7.4422 | 7.2312 | .51405 | 2.9270 | 60.151 | .16574 | 46.713 | 1.3118 |
| #1 | -.00041 | 16.105 | .00941 | .00361 | .06932 | .00090 | .00579 | 4.7346 | .00048 | .01056 |
| #2 | -.00032 | 16.262 | .01046 | .00400 | .06983 | .00094 | .00233 | 4.7457 | .00024 | .01076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02168** | **.07245** | **39.294** | **1.4047** | **.02326** | **5.5212** | **2.7158** | **.00201** | **.11634** | **.02647** |
| Stddev | .00003 | .00056 | .119 | .0519 | .00040 | .0081 | .0086 | .00002 | .02036 | .00052 |
| %RSD | .13521 | .76976 | .30254 | 3.6979 | 1.7227 | .14770 | .31473 | .93919 | 17.502 | 1.9726 |
| #1 | .02166 | .07206 | 39.210 | 1.3680 | .02354 | 5.5154 | 2.7097 | .00200 | .10194 | .02684 |
| #2 | .02170 | .07284 | 39.378 | 1.4414 | .02297 | 5.5270 | 2.7218 | .00203 | .13074 | .02610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.0955** | **.01061** | **.04400** | **-.00445** | **.00247** | **.71995** | **1.5407** | **.00025** | **.01940** | **.00562** |
| Stddev | .0129 | .00065 | .00197 | .00183 | .00133 | .00659 | .0141 | .00038 | .00021 | .00069 |
| %RSD | .61361 | 6.1599 | 4.4762 | 41.237 | 54.093 | .91489 | .91489 | 153.08 | 1.0567 | 12.365 |
| #1 | 2.1045 | .01014 | .04261 | -.00574 | .00341 | .72461 | 1.5507 | -.00002 | .01926 | .00512 |
| #2 | 2.0864 | .01107 | .04540 | -.00315 | .00152 | .71529 | 1.5307 | .00051 | .01955 | .00611 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05598** | **.00031** | **-.04528** | **.02870** | **.07291** | **.01070** |
| Stddev | .00148 | .00038 | .01119 | .00024 | .00043 | .00004 |
| %RSD | 2.6432 | 124.12 | 24.721 | .82632 | .58759 | .38879 |
| #1 | .05703 | .00058 | -.03737 | .02887 | .07261 | .01067 |
| #2 | .05493 | .00004 | -.05320 | .02853 | .07321 | .01073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8968.4** | **110290.** | **9036.2** |
| Stddev | 6.8 | 46. | 4.0 |
| %RSD | .07533 | .04214 | .04384 |
| #1 | 8963.6 | 110330. | 9039.0 |
| #2 | 8973.2 | 110260. | 9033.4 |

Sample Name: 280-45026-a-4-b  Acquired: 8/15/2013 18:18:54  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00177** | **62.401** | **.03963** | **.01767** | **.25311** | **.00378** | **.00243** | **29.872** | **.00141** | **.04615** |
| Stddev | .00067 | .289 | .00213 | .00025 | .00152 | .00002 | .00261 | .118 | .00006 | .00004 |
| %RSD | 37.873 | .46338 | 5.3826 | 1.3995 | .60213 | .51986 | 107.54 | .39611 | 4.5807 | .08945 |
| #1 | -.00129 | 62.196 | .03812 | .01785 | .25204 | .00377 | .00058 | 29.789 | .00145 | .04612 |
| #2 | -.00224 | 62.605 | .04114 | .01750 | .25419 | .00380 | .00428 | 29.956 | .00136 | .04618 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08178** | **.22832** | **159.84** | **7.2954** | **.12008** | **25.539** | **6.5979** | **.00263** | **.48357** | **.09762** |
| Stddev | .00013 | .00034 | .75 | .0535 | .00215 | .073 | .0262 | .00013 | .00083 | .00038 |
| %RSD | .16471 | .14999 | .47108 | .73328 | 1.7875 | .28485 | .39641 | 4.8157 | .17219 | .39058 |
| #1 | .08168 | .22856 | 159.31 | 7.2576 | .12159 | 25.590 | 6.6164 | .00254 | .48298 | .09735 |
| #2 | .08187 | .22808 | 160.37 | 7.3332 | .11856 | 25.488 | 6.5794 | .00272 | .48416 | .09789 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.873** | **.04644** | **.22624** | **-.00527** | **-.00020** | **1.7490** | **3.7429** | **.00547** | **.10535** | **.02638** |
| Stddev | .009 | .00016 | .00125 | .00011 | .00267 | .0176 | .0376 | .00003 | .00037 | .00170 |
| %RSD | .07401 | .34220 | .55052 | 2.0519 | 1308.9 | 1.0041 | 1.0041 | .60089 | .34807 | 6.4379 |
| #1 | 11.867 | .04655 | .22712 | -.00534 | -.00209 | 1.7614 | 3.7694 | .00549 | .10509 | .02758 |
| #2 | 11.879 | .04633 | .22536 | -.00519 | .00168 | 1.7366 | 3.7163 | .00545 | .10561 | .02518 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36707** | **-.00114** | F **-.23411** | **.15547** | **.39166** | **.04604** |
| Stddev | .00139 | .00008 | .01461 | .00009 | .00069 | .00039 |
| %RSD | .37807 | 6.9824 | 6.2422 | .05931 | .17634 | .84327 |
| #1 | .36608 | -.00108 | -.24444 | .15553 | .39215 | .04577 |
| #2 | .36805 | -.00120 | -.22378 | .15540 | .39118 | .04632 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10455.** | **127890.** | **10749.** |
| Stddev | 3. | 275. | 45. |
| %RSD | .02425 | .21478 | .41804 |
| #1 | 10457. | 127700. | 10781. |
| #2 | 10453. | 128080. | 10717. |

Sample Name: 280-45026-a-5-b  Acquired: 8/15/2013 18:21:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **54.673** | **.02874** | **.01733** | **.22027** | **.00252** | **.00142** | **25.666** | **.00138** | **.03982** |
| Stddev | .00080 | .037 | .00145 | .00001 | .00029 | .00013 | .00015 | .007 | .00007 | .00012 |
| %RSD | 193.41 | .06812 | 5.0517 | .06579 | .13067 | 5.0416 | 10.573 | .02603 | 4.8690 | .28932 |
| #1 | -.00097 | 54.699 | .02976 | .01732 | .22007 | .00243 | .00153 | 25.671 | .00133 | .03974 |
| #2 | .00015 | 54.647 | .02771 | .01734 | .22048 | .00261 | .00132 | 25.661 | .00143 | .03990 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06720** | **.12519** | **108.60** | **6.9002** | **.08844** | **21.176** | **3.6588** | **.00178** | **.28342** | **.08725** |
| Stddev | .00010 | .00024 | .17 | .0637 | .00076 | .048 | .0069 | .00017 | .01137 | .00049 |
| %RSD | .14852 | .18842 | .16055 | .92269 | .86047 | .22519 | .18793 | 9.5884 | 4.0125 | .55714 |
| #1 | .06727 | .12503 | 108.48 | 6.8552 | .08790 | 21.209 | 3.6539 | .00190 | .29147 | .08691 |
| #2 | .06713 | .12536 | 108.72 | 6.9452 | .08898 | 21.142 | 3.6636 | .00166 | .27538 | .08760 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.4030** | **.13104** | **.65476** | **-.00508** | **-.00116** | **2.8951** | **6.1954** | **.02707** | **.06082** | **.01682** |
| Stddev | .0005 | .00163 | .00067 | .00097 | .00069 | .0301 | .0644 | .00067 | .00008 | .00177 |
| %RSD | .01475 | 1.2409 | .10234 | 19.144 | 59.545 | 1.0394 | 1.0394 | 2.4776 | .12457 | 10.518 |
| #1 | 3.4026 | .13219 | .65523 | -.00577 | -.00165 | 2.9163 | 6.2410 | .02754 | .06087 | .01557 |
| #2 | 3.4033 | .12989 | .65429 | -.00439 | -.00067 | 2.8738 | 6.1499 | .02659 | .06077 | .01807 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.34146** | **-.00058** | F **-.13126** | **.11419** | **.31459** | **.01616** |
| Stddev | .00439 | .00080 | .00975 | .00042 | .00059 | .00019 |
| %RSD | 1.2843 | 139.00 | 7.4255 | .37091 | .18904 | 1.2038 |
| #1 | .33836 | -.00001 | -.13816 | .11389 | .31501 | .01602 |
| #2 | .34456 | -.00114 | -.12437 | .11449 | .31417 | .01630 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9185.8** | **111450.** | **9345.6** |
| Stddev | 17.7 | 327. | 90.8 |
| %RSD | .19226 | .29372 | .97126 |
| #1 | 9198.3 | 111210. | 9281.4 |
| #2 | 9173.3 | 111680. | 9409.8 |

Sample Name: 280-45026-a-6-b  Acquired: 8/15/2013 18:23:32  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00030** | **30.175** | **.01838** | **.01132** | **.09610** | **.00134** | **.00480** | **7.2860** | **.00062** | **.02411** |
| Stddev | .00008 | .005 | .00000 | .00044 | .00029 | .00001 | .00061 | .0137 | .00025 | .00006 |
| %RSD | 25.501 | .01568 | .02015 | 3.8551 | .30104 | .84300 | 12.820 | .18754 | 40.993 | .24694 |
| #1 | -.00036 | 30.178 | .01838 | .01101 | .09630 | .00134 | .00436 | 7.2764 | .00079 | .02407 |
| #2 | -.00025 | 30.171 | .01839 | .01163 | .09589 | .00133 | .00523 | 7.2957 | .00044 | .02415 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03507** | **.07231** | **65.350** | **4.5864** | **.04857** | **12.753** | **2.1635** | **.00034** | **.17541** | **.05204** |
| Stddev | .00001 | .00037 | .151 | .0117 | .00358 | .023 | .0031 | .00020 | .00822 | .00008 |
| %RSD | .02299 | .51069 | .23082 | .25395 | 7.3696 | .18238 | .14377 | 56.995 | 4.6884 | .15781 |
| #1 | .03507 | .07205 | 65.457 | 4.5781 | .04604 | 12.736 | 2.1613 | .00048 | .18122 | .05210 |
| #2 | .03506 | .07257 | 65.243 | 4.5946 | .05110 | 12.769 | 2.1657 | .00021 | .16959 | .05198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3505** | **.01341** | **.05658** | **-.00322** | **.00047** | **1.9586** | **4.1915** | **.00092** | **.02630** | **.01556** |
| Stddev | .0013 | .00075 | .00126 | .00174 | .00315 | .0279 | .0597 | .00015 | .00019 | .00146 |
| %RSD | .05474 | 5.5713 | 2.2243 | 54.115 | 673.85 | 1.4256 | 1.4256 | 16.077 | .72936 | 9.3792 |
| #1 | 2.3514 | .01394 | .05747 | -.00199 | .00269 | 1.9784 | 4.2337 | .00102 | .02643 | .01453 |
| #2 | 2.3496 | .01288 | .05569 | -.00445 | -.00176 | 1.9389 | 4.1492 | .00081 | .02616 | .01659 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18588** | **-.00041** | F **-.12007** | **.05321** | **.12660** | **.02791** |
| Stddev | .00116 | .00003 | .00391 | .00029 | .00078 | .00081 |
| %RSD | .62540 | 7.0696 | 3.2596 | .55339 | .61440 | 2.8876 |
| #1 | .18670 | -.00043 | -.12284 | .05342 | .12605 | .02848 |
| #2 | .18506 | -.00039 | -.11731 | .05300 | .12715 | .02734 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9061.2** | **111420.** | **9136.0** |
| Stddev | 2.9 | 13. | 4.8 |
| %RSD | .03171 | .01149 | .05256 |
| #1 | 9063.2 | 111430. | 9139.4 |
| #2 | 9059.1 | 111410. | 9132.6 |

Sample Name: 280-45026-a-7-b  Acquired: 8/15/2013 18:25:45  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **60.053** | **.05508** | **.02030** | **.29463** | **.00301** | **.00277** | **20.538** | **.01048** | **.05510** |
| Stddev | .00005 | .091 | .00073 | .00065 | .00028 | .00004 | .00064 | .023 | .00005 | .00013 |
| %RSD | 149.14 | .15174 | 1.3321 | 3.1953 | .09613 | 1.3476 | 22.966 | .10968 | .44087 | .22912 |
| #1 | -.00006 | 59.989 | .05456 | .02075 | .29483 | .00298 | .00232 | 20.522 | .01051 | .05519 |
| #2 | .00000 | 60.118 | .05560 | .01984 | .29443 | .00303 | .00322 | 20.554 | .01045 | .05501 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27618** | **.41516** | **143.01** | **7.2936** | **.11802** | **25.452** | **3.8011** | **.00529** | **.37583** | **.11324** |
| Stddev | .00022 | .00070 | .37 | .0659 | .00358 | .032 | .0181 | .00030 | .01376 | .00014 |
| %RSD | .07969 | .16955 | .26144 | .90321 | 3.0335 | .12449 | .47749 | 5.5848 | 3.6601 | .12613 |
| #1 | .27603 | .41566 | 142.74 | 7.3402 | .11549 | 25.430 | 3.7883 | .00550 | .36610 | .11334 |
| #2 | .27634 | .41466 | 143.27 | 7.2470 | .12055 | 25.475 | 3.8140 | .00508 | .38556 | .11314 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.9797** | **1.4496** | **.22292** | **-.00259** | **.00036** | **2.6194** | **5.6056** | W **2.0333** | **.04202** | **.01927** |
| Stddev | .0067 | .0004 | .00248 | .00049 | .00333 | .0022 | .0048 | .0022 | .00019 | .00175 |
| %RSD | .11190 | .02662 | 1.1117 | 18.793 | 913.86 | .08543 | .08543 | .10995 | .46238 | 9.0700 |
| #1 | 5.9844 | 1.4499 | .22467 | -.00224 | -.00199 | 2.6178 | 5.6022 | 2.0317 | .04188 | .02051 |
| #2 | 5.9749 | 1.4493 | .22117 | -.00293 | .00272 | 2.6210 | 5.6090 | 2.0349 | .04216 | .01804 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | 2.0000 | | |
| Low Limit | -1.0000 | | | | | | | -.05000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36000** | **-.00182** | F **-.16351** | **.11218** | **1.5763** | **.04453** |
| Stddev | .00315 | .00021 | .04730 | .00003 | .0010 | .00261 |
| %RSD | .87476 | 11.493 | 28.930 | .03102 | .06372 | 5.8651 |
| #1 | .36223 | -.00196 | -.19696 | .11220 | 1.5770 | .04268 |
| #2 | .35778 | -.00167 | -.13006 | .11215 | 1.5756 | .04637 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9590.3** | **117380.** | **9810.8** |
| Stddev | 10.9 | 232. | 42.7 |
| %RSD | .11320 | .19747 | .43526 |
| #1 | 9597.9 | 117550. | 9780.6 |
| #2 | 9582.6 | 117220. | 9841.0 |

Sample Name: 280-45026-a-8-b  Acquired: 8/15/2013 18:28:02  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00100** | **71.083** | **.05274** | **.01993** | **.32149** | **.00315** | **.00256** | **158.75** | **.00692** | **.05480** |
| Stddev | .00023 | .246 | .00122 | .00048 | .00093 | .00000 | .00289 | .41 | .00040 | .00021 |
| %RSD | 22.943 | .34629 | 2.3216 | 2.4128 | .28889 | .00492 | 112.87 | .25682 | 5.7528 | .38702 |
| #1 | -.00116 | 70.909 | .05188 | .02027 | .32083 | .00315 | .00052 | 158.47 | .00663 | .05465 |
| #2 | -.00084 | 71.257 | .05361 | .01959 | .32215 | .00315 | .00460 | 159.04 | .00720 | .05495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09759** | **.30040** | **160.98** | **7.2976** | **.12878** | **32.149** | **7.8079** | **.00290** | **.46574** | **.11835** |
| Stddev | .00073 | .00081 | .87 | .0159 | .00347 | .131 | .0069 | .00014 | .00484 | .00065 |
| %RSD | .75013 | .26824 | .54227 | .21851 | 2.6978 | .40843 | .08855 | 4.8625 | 1.0382 | .55329 |
| #1 | .09707 | .29983 | 160.36 | 7.2864 | .13124 | 32.056 | 7.8031 | .00280 | .46916 | .11789 |
| #2 | .09811 | .30097 | 161.60 | 7.3089 | .12633 | 32.242 | 7.8128 | .00300 | .46232 | .11882 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.0170** | **.35773** | **1.4444** | **-.00160** | **.00289** | **2.2593** | **4.8349** | **.00606** | **.37011** | **.01686** |
| Stddev | .0054 | .00004 | .0046 | .00172 | .00184 | .0546 | .1169 | .00043 | .00081 | .00048 |
| %RSD | .10847 | .01099 | .31904 | 108.08 | 63.845 | 2.4185 | 2.4185 | 7.0582 | .21873 | 2.8693 |
| #1 | 5.0132 | .35776 | 1.4412 | -.00038 | .00158 | 2.2207 | 4.7523 | .00576 | .36954 | .01652 |
| #2 | 5.0208 | .35770 | 1.4477 | -.00281 | .00419 | 2.2980 | 4.9176 | .00637 | .37068 | .01720 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.31543** | **-.00120** | F **-.19663** | **.17082** | **.51919** | **.01962** |
| Stddev | .00001 | .00065 | .02456 | .00123 | .00182 | .00043 |
| %RSD | .00162 | 53.973 | 12.493 | .71832 | .35057 | 2.2077 |
| #1 | .31543 | -.00166 | -.21400 | .16995 | .51791 | .01993 |
| #2 | .31542 | -.00074 | -.17926 | .17169 | .52048 | .01932 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9308.8** | **112760.** | **9704.3** |
| Stddev | 15.0 | 458. | 23.9 |
| %RSD | .16081 | .40612 | .24643 |
| #1 | 9319.4 | 113080. | 9687.4 |
| #2 | 9298.2 | 112430. | 9721.2 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 18:30:20 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00071** | **50.425** | **.00017** | **.00151** | **.00101** | **-.00008** | **1.0326** | **-.00245** | **.00019** | **.00026** | **-.00010** | **.00233** | **49.846** |
| Stddev | .00015 | .076 | .00047 | .00000 | .00012 | .00003 | .0025 | .00618 | .00004 | .00029 | .00007 | .00009 | .431 |
| %RSD | 21.307 | .15137 | 277.63 | .07246 | 12.321 | 35.690 | .24190 | 252.03 | 21.751 | 113.47 | 71.479 | 3.6487 | .86566 |
| #1 | .00061 | 50.371 | -.00016 | .00151 | .00110 | -.00010 | 1.0308 | .00192 | .00022 | .00046 | -.00005 | .00227 | 50.151 |
| #2 | .00082 | 50.479 | .00050 | .00151 | .00092 | -.00006 | 1.0343 | -.00682 | .00016 | .00005 | -.00015 | .00240 | 49.541 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10847** | **.00219** | **-.00022** | **.00022** | **-.00030** | **253.98** | **.00068** | **.00321** | **-.00051** | **5.0264** | **.00009** | **-.00338** | **.00478** |
| Stddev | .05642 | .00122 | .00098 | .00002 | .00009 | .02 | .00001 | .00061 | .00036 | .0173 | .00001 | .00074 | .00250 |
| %RSD | 52.020 | 55.518 | 453.23 | 7.3940 | 30.825 | .00736 | .94815 | 18.891 | 70.904 | .34473 | 5.9596 | 21.812 | 52.214 |
| #1 | .14837 | .00133 | .00048 | .00021 | -.00024 | 253.99 | .00068 | .00278 | -.00077 | 5.0141 | .00009 | -.00390 | .00301 |
| #2 | .06857 | .00305 | -.00091 | .00023 | -.00037 | 253.97 | .00067 | .00364 | -.00026 | 5.0386 | .00010 | -.00286 | .00654 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01023** | **-.00115** | **.00034** | **4.8919** | **-.00002** | **.00173** | **10.308** | **.00088** | **-.00007** | **.02370** |
| Stddev | .00534 | .00023 | .00004 | .0155 | .00016 | .00019 | .041 | .00001 | .00006 | .00169 |
| %RSD | 52.214 | 19.584 | 12.213 | .31614 | 918.71 | 10.876 | .39506 | .81517 | 93.675 | 7.1191 |
| #1 | .00645 | -.00099 | .00037 | 4.8810 | .00010 | .00187 | 10.279 | .00088 | -.00011 | .02489 |
| #2 | .01400 | -.00131 | .00031 | 4.9029 | -.00013 | .00160 | 10.336 | .00087 | -.00002 | .02251 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8317.6** | **101000.** | **8502.3** |
| Stddev | 1.0 | 12. | 74.6 |
| %RSD | .01243 | .01235 | .87790 |
| #1 | 8316.8 | 101010. | 8449.5 |
| #2 | 8318.3 | 100990. | 8555.1 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 18:32:40 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49788** | **.51645** | **1.0015** | **.50808** | **.50432** | **.50046** | **.00161** | **5.0483** | **.50957** | **.50986** | **.50436** | **.50508** | **2.5428** |
| Stddev | .00031 | .00049 | .0032 | .00054 | .00142 | .00180 | .00027 | .0135 | .00080 | .00018 | .00069 | .00044 | .0028 |
| %RSD | .06240 | .09561 | .32415 | .10602 | .28192 | .35894 | 16.649 | .26729 | .15697 | .03579 | .13692 | .08620 | .11047 |
| #1 | .49766 | .51610 | 1.0038 | .50846 | .50332 | .49919 | .00180 | 5.0387 | .51014 | .50998 | .50485 | .50539 | 2.5408 |
| #2 | .49810 | .51680 | .99920 | .50770 | .50533 | .50173 | .00142 | 5.0578 | .50900 | .50973 | .50387 | .50477 | 2.5448 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.226** | **.97887** | **19.548** | **.49703** | **.50492** | **5.1577** | **.50853** | **1.0058** | **1.0237** | **-.00640** | **1.0197** | **1.0150** | **4.9744** |
| Stddev | .079 | .00222 | .002 | .00065 | .00022 | .0109 | .00014 | .0047 | .0021 | .00332 | .0003 | .0028 | .0454 |
| %RSD | .15744 | .22704 | .00871 | .13017 | .04455 | .21121 | .02727 | .46396 | .20654 | 51.904 | .02455 | .27429 | .91369 |
| #1 | 50.170 | .97730 | 19.549 | .49748 | .50476 | 5.1654 | .50863 | 1.0091 | 1.0222 | -.00874 | 1.0195 | 1.0169 | 5.0065 |
| #2 | 50.282 | .98044 | 19.546 | .49657 | .50508 | 5.1500 | .50843 | 1.0025 | 1.0252 | -.00405 | 1.0199 | 1.0130 | 4.9423 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.645** | **1.0201** | **.50222** | **-.00517** | **.49891** | **1.0453** | **-.00212** | **.50188** | **.49473** | **.50402** |
| Stddev | .097 | .0018 | .00121 | .00005 | .00092 | .0017 | .01568 | .00247 | .00058 | .00088 |
| %RSD | .91369 | .17198 | .24053 | .96623 | .18500 | .15875 | 738.02 | .49139 | .11735 | .17509 |
| #1 | 10.714 | 1.0214 | .50136 | -.00520 | .49956 | 1.0464 | .00896 | .50362 | .49432 | .50465 |
| #2 | 10.576 | 1.0189 | .50307 | -.00513 | .49826 | 1.0441 | -.01321 | .50013 | .49514 | .50340 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8503.5** | **104490.** | **8575.5** |
| Stddev | .3 | 12. | 53.6 |
| %RSD | .00411 | .01140 | .62540 |
| #1 | 8503.2 | 104480. | 8613.4 |
| #2 | 8503.7 | 104500. | 8537.6 |

Sample Name: CCB Acquired: 8/15/2013 18:34:45 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00169** | **.00008** | **.00140** | **.00014** | **.00000** | **.00115** | **-.00240** | **.00000** | **-.00010** | **.00000** | **-.00063** |
| Stddev | .00009 | .00004 | .00128 | .00021 | .00017 | .00001 | .00262 | .00282 | .00002 | .00015 | .0001 | .00040 |
| %RSD | 21.449 | 2.3631 | 1637.9 | 14.930 | 114.87 | 580.25 | 228.15 | 117.84 | 1339.3 | 154.36 | 4348.6 | 62.777 |
| #1 | .00037 | .00167 | -.00083 | .00125 | .00026 | .00000 | .00300 | -.00040 | .00002 | .00001 | .00004 | -.00091 |
| #2 | .00050 | .00172 | .00099 | .00155 | .00003 | .00001 | -.00070 | -.00439 | -.00001 | -.00021 | -.00005 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **.10501** | **-.00056** | **.00349** | **.00014** | **.00058** | **.07414** | **-.00002** | **.00106** | **-.00185** | **-.00442** | W **.00587** |
| Stddev | .00092 | .05401 | .00072 | .00222 | .00001 | .00003 | .00203 | .00023 | .00046 | .00102 | .00312 | .00053 |
| %RSD | 136.64 | 51.434 | 128.45 | 63.808 | 8.8445 | 5.2352 | 2.7425 | 1108.0 | 43.462 | 55.298 | 70.700 | 9.1108 |
| #1 | .00002 | .14320 | -.00005 | .00506 | .00013 | .00060 | .07558 | -.00019 | .00073 | -.00257 | -.00662 | .00549 |
| #2 | .00132 | .06682 | -.00107 | .00191 | .00015 | .00056 | .07271 | .00014 | .00138 | -.00113 | -.00221 | .00625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **.00230** | **.00493** | **-.00017** | **-.00004** | **.00073** | **.00012** | **-.00026** | **-.01715** | **-.00064** | **.00116** | **.00213** |
| Stddev | .00013 | .01050 | .02246 | .00020 | .00006 | .00206 | .00012 | .00053 | .02657 | .00015 | .00014 | .00048 |
| %RSD | 11.547 | 455.73 | 455.73 | 117.04 | 142.24 | 282.47 | 100.93 | 203.17 | 154.91 | 23.117 | 12.520 | 22.689 |
| #1 | .00122 | .00972 | .02081 | -.00031 | -.00009 | -.00073 | .00003 | -.00064 | .00164 | -.00074 | .00126 | .00247 |
| #2 | .00103 | -.00512 | -.01095 | -.00003 | .00000 | .00219 | .00020 | .00011 | -.03594 | -.00053 | .00105 | .00178 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8557.2** | **106200.** | **8396.4** |
| Stddev | 30.2 | 38. | 29.2 |
| %RSD | .35302 | .03624 | .34779 |
| #1 | 8535.9 | 106230. | 8417.1 |
| #2 | 8578.6 | 106170. | 8375.8 |

Sample Name: CCVL-2200397 Acquired: 8/15/2013 18:36:58 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00994** | **.10542** | **.01409** | **.09358** | **.01063** | **.00100** | **.11058** | **.20486** | **.00513** | **.01031** | **.01021** | **.01473** | **.10708** |
| Stddev | .00005 | .00031 | .00094 | .00061 | .00022 | .00001 | .00070 | .00002 | .00000 | .00002 | .00002 | .00061 | .00102 |
| %RSD | .48817 | .29519 | 6.6987 | .65090 | 2.0876 | .68763 | .62874 | .00899 | .04704 | .19317 | .23342 | 4.1228 | .94812 |
| #1 | .00991 | .10520 | .01475 | .09315 | .01078 | .00100 | .11107 | .20487 | .00513 | .01033 | .01019 | .01516 | .10780 |
| #2 | .00998 | .10564 | .01342 | .09401 | .01047 | .00099 | .11009 | .20485 | .00514 | .01030 | .01023 | .01430 | .10636 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1080** | F **.01319** | **.20034** | **.01003** | **.01972** | **1.0940** | **.04147** | **2.8004** | **.00803** | **-.00319** | **.00868** | **.01299** | **.49132** |
| Stddev | .0204 | .00218 | .00170 | .00006 | .00006 | .0087 | .00030 | .0113 | .00140 | .00290 | .00146 | .00288 | .00328 |
| %RSD | .65741 | 16.502 | .85041 | .57571 | .27946 | .79764 | .71841 | .40264 | 17.394 | 91.067 | 16.794 | 22.175 | .66829 |
| #1 | 3.1225 | .01473 | .20155 | .00999 | .01969 | 1.0878 | .04126 | 2.7925 | .00704 | -.00113 | .00971 | .01096 | .48900 |
| #2 | 3.0936 | .01165 | .19914 | .01007 | .01976 | 1.1002 | .04168 | 2.8084 | .00901 | -.00524 | .00765 | .01503 | .49364 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0514** | **.09979** | **.01020** | **.01508** | **.00962** | **.01579** | F **.04003** | **.00975** | **.02103** | **.01804** |
| Stddev | .0070 | .00029 | .00006 | .00035 | .00002 | .00097 | .02376 | .00009 | .00003 | .00119 |
| %RSD | .66829 | .28987 | .57272 | 2.3135 | .15801 | 6.1295 | 59.358 | .95460 | .14354 | 6.5954 |
| #1 | 1.0465 | .09958 | .01016 | .01533 | .00963 | .01510 | .05684 | .00982 | .02105 | .01720 |
| #2 | 1.0564 | .09999 | .01024 | .01483 | .00961 | .01647 | .02323 | .00969 | .02100 | .01888 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8673.8** | **107790.** | **8638.4** |
| Stddev | 9.3 | 164. | 64.8 |
| %RSD | .10715 | .15213 | .75055 |
| #1 | 8680.3 | 107670. | 8684.2 |
| #2 | 8667.2 | 107900. | 8592.6 |

Sample Name: 280-45026-a-9-c  Acquired: 8/15/2013 18:39:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00147** | **103.92** | **.04327** | **.01797** | **.58865** | **.00411** | **.00359** | **30.184** | **.00450** | **.05756** |
| Stddev | .00025 | .36 | .00066 | .00003 | .00148 | .00004 | .00408 | .136 | .00001 | .00026 |
| %RSD | 17.111 | .35087 | 1.5176 | .18981 | .25222 | 1.0435 | 113.68 | .45046 | .14646 | .44307 |
| #1 | -.00164 | 103.67 | .04373 | .01799 | .58760 | .00408 | .00647 | 30.088 | .00451 | .05738 |
| #2 | -.00129 | 104.18 | .04280 | .01794 | .58970 | .00414 | .00070 | 30.280 | .00450 | .05774 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11006** | **.19855** | **188.13** | **6.7159** | **.13085** | **24.440** | W **10.989** | **.00590** | **4.8305** | **.11952** |
| Stddev | .00008 | .00061 | .71 | .0202 | .00152 | .055 | .069 | .00020 | .0171 | .00055 |
| %RSD | .07572 | .30597 | .37840 | .30125 | 1.1653 | .22399 | .62676 | 3.4133 | .35395 | .46217 |
| #1 | .11012 | .19812 | 187.63 | 6.7016 | .12977 | 24.401 | 11.037 | .00604 | 4.8184 | .11913 |
| #2 | .11000 | .19898 | 188.64 | 6.7302 | .13192 | 24.478 | 10.940 | .00576 | 4.8426 | .11991 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.3364** | **.13944** | **.94713** | **.00050** | **.00489** | **3.1885** | **6.8235** | **.00617** | **.34461** | **.02138** |
| Stddev | .0119 | .00091 | .00041 | .00293 | .00596 | .0144 | .0309 | .00027 | .00070 | .00232 |
| %RSD | .18739 | .65128 | .04296 | 589.30 | 121.83 | .45240 | .45240 | 4.4196 | .20431 | 10.853 |
| #1 | 6.3447 | .14008 | .94685 | .00257 | .00910 | 3.1783 | 6.8017 | .00598 | .34412 | .02302 |
| #2 | 6.3280 | .13880 | .94742 | -.00158 | .00068 | 3.1987 | 6.8453 | .00637 | .34511 | .01974 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.67397** | **-.00214** | F **-.21117** | **.20850** | **.58870** | **.01585** |
| Stddev | .00016 | .00142 | .04154 | .00072 | .00081 | .00201 |
| %RSD | .02326 | 66.407 | 19.670 | .34390 | .13774 | 12.655 |
| #1 | .67408 | -.00113 | -.24055 | .20799 | .58813 | .01443 |
| #2 | .67386 | -.00314 | -.18180 | .20901 | .58928 | .01727 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9396.1** | **113530.** | **9642.4** |
| Stddev | 6.2 | 32. | 6.3 |
| %RSD | .06572 | .02781 | .06556 |
| #1 | 9400.5 | 113550. | 9637.9 |
| #2 | 9391.7 | 113500. | 9646.9 |

Sample Name: 280-45026-a-9-c@5 Acquired: 8/15/2013 18:41:28 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **-.00009** | k **22.335** | k **.00519** | **.00426** | **.12656** | k **.00089** | k **.00814** | **6.5146** | k **.00096** | k **.01297** |
| Stddev | .00004 | .196 | .00270 | .00017 | .00198 | .00002 | .00112 | .0544 | .00006 | .00010 |
| %RSD | 46.239 | .87685 | 51.983 | 4.0121 | 1.5671 | 2.5360 | 13.791 | .83587 | 5.8807 | .74254 |
| #1 | k -.00006 | k 22.196 | k .00710 | .00438 | .12516 | k .00087 | k .00893 | 6.4761 | k .00092 | k .01304 |
| #2 | k -.00012 | k 22.473 | k .00328 | .00414 | .12796 | k .00090 | k .00735 | 6.5531 | k .00100 | k .01290 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.02316** | k **.04106** | k **40.925** | **1.4531** | k **.02741** | k **5.1895** | k **2.4037** | k **.00113** | **1.0498** | k **.02779** |
| Stddev | .00028 | .00035 | .278 | .0341 | .00348 | .0007 | .0324 | .00002 | .0063 | .00013 |
| %RSD | 1.1984 | .84525 | .67966 | 2.3496 | 12.711 | .01356 | 1.3474 | 1.6403 | .59999 | .46624 |
| #1 | k .02296 | k .04130 | k 40.728 | 1.4290 | k .02495 | k 5.1890 | k 2.4266 | k .00114 | 1.0454 | k .02788 |
| #2 | k .02335 | k .04081 | k 41.122 | 1.4772 | k .02987 | k 5.1900 | k 2.3808 | k .00112 | 1.0543 | k .02770 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.3557** | k **.02943** | k **.20320** | k **-.00315** | k **.00546** | k **.67234** | k **1.4388** | k **.00053** | **.07380** | k **.04105** |
| Stddev | .0020 | .00089 | .00250 | .00089 | .00178 | .00352 | .0075 | .00076 | .00023 | .00015 |
| %RSD | .15067 | 3.0194 | 1.2285 | 28.256 | 32.606 | .52381 | .52381 | 142.05 | .31275 | .35425 |
| #1 | 1.3543 | k .02880 | k .20497 | k -.00378 | k .00672 | k .67483 | k 1.4441 | k .00107 | .07363 | k .04115 |
| #2 | 1.3572 | k .03006 | k .20144 | k -.00252 | k .00420 | k .66985 | k 1.4335 | k .00000 | .07396 | k .04095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.14117** | k **.00153** | kW **-.06070** | k **.03995** | k **.13008** | k **.00661** |
| Stddev | .00094 | .00013 | .01318 | .00009 | .00016 | .00489 |
| %RSD | .66327 | 8.6779 | 21.718 | .21515 | .12305 | 73.959 |
| #1 | k .14184 | k .00162 | k -.05138 | k .04001 | k .13020 | k .00315 |
| #2 | k .14051 | k .00143 | k -.07002 | k .03989 | k .12997 | k .01007 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8857.7** | **109200.** | **8867.4** |
| Stddev | 1.7 | 206. | 119.6 |
| %RSD | .01866 | .18857 | 1.3483 |
| #1 | 8858.9 | 109050. | 8951.9 |
| #2 | 8856.5 | 109340. | 8782.8 |

Sample Name: 280-45026-a-10-c  Acquired: 8/15/2013 18:43:46  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00166** | **84.756** | **.04559** | **.01549** | **.35695** | **.00371** | **.00493** | **43.939** | **.00198** | **.05398** |
| Stddev | .00013 | .061 | .00030 | .00075 | .00162 | .00005 | .00068 | .118 | .00009 | .00018 |
| %RSD | 7.9245 | .07158 | .66679 | 4.8265 | .45480 | 1.3060 | 13.801 | .26810 | 4.3353 | .32826 |
| #1 | -.00175 | 84.713 | .04580 | .01497 | .35580 | .00374 | .00541 | 43.856 | .00205 | .05385 |
| #2 | -.00157 | 84.799 | .04537 | .01602 | .35810 | .00367 | .00445 | 44.022 | .00192 | .05410 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10695** | **.47568** | **207.26** | **7.2445** | **.14736** | **32.259** | W **10.287** | **.00346** | **1.8729** | **.13482** |
| Stddev | .00037 | .00109 | 1.09 | .0174 | .00146 | .118 | .158 | .00005 | .0021 | .00039 |
| %RSD | .34877 | .22858 | .52745 | .23995 | .99156 | .36731 | 1.5340 | 1.4257 | .11138 | .29049 |
| #1 | .10668 | .47491 | 206.49 | 7.2322 | .14633 | 32.175 | 10.175 | .00342 | 1.8744 | .13454 |
| #2 | .10721 | .47645 | 208.03 | 7.2568 | .14839 | 32.343 | 10.398 | .00349 | 1.8714 | .13510 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.2712** | **.05638** | **.39553** | **-.00364** | **-.00009** | **2.4809** | **5.3091** | **.00246** | **.08806** | **.02643** |
| Stddev | .0054 | .00039 | .00167 | .00078 | .00081 | .0155 | .0332 | .00043 | .00029 | .00148 |
| %RSD | .05840 | .69796 | .42161 | 21.352 | 851.25 | .62554 | .62554 | 17.628 | .33494 | 5.6049 |
| #1 | 9.2673 | .05610 | .39671 | -.00419 | -.00067 | 2.4699 | 5.2856 | .00215 | .08785 | .02748 |
| #2 | 9.2750 | .05666 | .39435 | -.00309 | .00048 | 2.4918 | 5.3325 | .00277 | .08827 | .02539 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.30267** | **-.00112** | F **-.27362** | **.17707** | **.45430** | **.04629** |
| Stddev | .00144 | .00068 | .04815 | .00026 | .00085 | .00155 |
| %RSD | .47706 | 60.116 | 17.596 | .14635 | .18769 | 3.3559 |
| #1 | .30165 | -.00160 | -.30767 | .17725 | .45369 | .04739 |
| #2 | .30369 | -.00065 | -.23958 | .17688 | .45490 | .04519 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10762.** | **131040.** | **11054.** |
| Stddev | 36. | 659. | 82. |
| %RSD | .33620 | .50260 | .74020 |
| #1 | 10788. | 131510. | 10996. |
| #2 | 10736. | 130580. | 11112. |

Sample Name: 280-45026-a-10-c@5 Acquired: 8/15/2013 18:46:11 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00041** | **20.366** | **.01103** | **.00432** | **.08630** | **.00086** | **.00243** | **10.634** | **.00047** | **.01343** |
| Stddev | .00009 | .025 | .00027 | .00024 | .00009 | .00001 | .00227 | .033 | .00006 | .00015 |
| %RSD | 21.274 | .12275 | 2.4173 | 5.4572 | .10281 | 1.7308 | 93.236 | .31051 | 13.222 | 1.1122 |
| #1 | -.00047 | 20.384 | .01085 | .00415 | .08623 | .00087 | .00404 | 10.611 | .00043 | .01354 |
| #2 | -.00035 | 20.349 | .01122 | .00448 | .08636 | .00085 | .00083 | 10.657 | .00052 | .01333 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02595** | **.11236** | **50.802** | **1.7499** | **.03427** | **7.7834** | **2.6279** | **.00097** | **.48690** | **.03349** |
| Stddev | .00018 | .00007 | .319 | .0500 | .00162 | .0140 | .0268 | .00023 | .00454 | .00013 |
| %RSD | .69292 | .05850 | .62765 | 2.8593 | 4.7309 | .17922 | 1.0214 | 23.945 | .93313 | .38885 |
| #1 | .02608 | .11241 | 50.576 | 1.7146 | .03541 | 7.7735 | 2.6469 | .00080 | .48369 | .03359 |
| #2 | .02583 | .11231 | 51.027 | 1.7853 | .03312 | 7.7932 | 2.6089 | .00113 | .49011 | .03340 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.2416** | **.01312** | **.09008** | **-.00499** | **.00177** | **.62939** | **1.3469** | **-.00044** | **.02116** | **.00708** |
| Stddev | .0037 | .00004 | .00313 | .00146 | .00064 | .02351 | .0503 | .00039 | .00002 | .00113 |
| %RSD | .16604 | .29011 | 3.4786 | 29.317 | 35.797 | 3.7352 | 3.7352 | 89.084 | .08479 | 16.030 |
| #1 | 2.2442 | .01315 | .09229 | -.00603 | .00222 | .64602 | 1.3825 | -.00072 | .02117 | .00788 |
| #2 | 2.2390 | .01309 | .08786 | -.00396 | .00133 | .61277 | 1.3113 | -.00016 | .02114 | .00627 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07145** | **-.00083** | W **-.06703** | **.04175** | **.11226** | **.01366** |
| Stddev | .00105 | .00053 | .02437 | .00023 | .00022 | .00178 |
| %RSD | 1.4642 | 64.656 | 36.360 | .55146 | .19638 | 13.016 |
| #1 | .07071 | -.00045 | -.04980 | .04191 | .11211 | .01492 |
| #2 | .07219 | -.00120 | -.08427 | .04158 | .11242 | .01241 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9139.0** | **112740.** | **9215.9** |
| Stddev | 18.8 | 222. | 49.5 |
| %RSD | .20570 | .19650 | .53739 |
| #1 | 9125.8 | 112590. | 9180.9 |
| #2 | 9152.3 | 112900. | 9250.9 |

Sample Name: 280-45026-a-14-b  Acquired: 8/15/2013 18:48:31  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00067** | **75.609** | **.04041** | **.02024** | **.25292** | **.00374** | **.00129** | **19.351** | **.00246** | **.05803** |
| Stddev | .00009 | .105 | .00102 | .00009 | .00088 | .00004 | .00381 | .067 | .00025 | .00003 |
| %RSD | 13.178 | .13903 | 2.5252 | .43318 | .34603 | 1.0926 | 293.93 | .34587 | 10.297 | .04312 |
| #1 | -.00061 | 75.535 | .03969 | .02017 | .25230 | .00377 | -.00140 | 19.303 | .00228 | .05802 |
| #2 | -.00074 | 75.684 | .04113 | .02030 | .25354 | .00371 | .00399 | 19.398 | .00264 | .05805 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10434** | **.31709** | **178.38** | **9.1065** | **.14063** | **30.508** | **5.6396** | **.00442** | **.77199** | **.14616** |
| Stddev | .00022 | .00024 | .57 | .0353 | .00018 | .001 | .0196 | .00027 | .00201 | .00014 |
| %RSD | .21319 | .07699 | .32121 | .38807 | .12661 | .00198 | .34719 | 6.1891 | .26001 | .09238 |
| #1 | .10418 | .31692 | 177.98 | 9.0815 | .14051 | 30.508 | 5.6535 | .00422 | .77341 | .14607 |
| #2 | .10450 | .31726 | 178.79 | 9.1315 | .14076 | 30.509 | 5.6258 | .00461 | .77057 | .14626 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.3447** | **.09518** | **.36617** | **-.00176** | **-.00091** | **2.7933** | **5.9776** | **.00368** | **.06173** | **.02706** |
| Stddev | .0056 | .00001 | .00253 | .00247 | .00309 | .1114 | .2385 | .00066 | .00032 | .00061 |
| %RSD | .10515 | .00944 | .69034 | 140.48 | 338.42 | 3.9898 | 3.9898 | 17.966 | .52588 | 2.2427 |
| #1 | 5.3486 | .09519 | .36796 | -.00351 | -.00310 | 2.8721 | 6.1462 | .00321 | .06150 | .02749 |
| #2 | 5.3407 | .09517 | .36438 | -.00001 | .00127 | 2.7145 | 5.8090 | .00415 | .06196 | .02663 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39162** | **-.00163** | F **-.21034** | **.14851** | **.50261** | **.04579** |
| Stddev | .00716 | .00028 | .02419 | .00016 | .00007 | .00184 |
| %RSD | 1.8293 | 17.205 | 11.500 | .10801 | .01404 | 4.0180 |
| #1 | .38656 | -.00143 | -.19324 | .14862 | .50256 | .04449 |
| #2 | .39669 | -.00182 | -.22745 | .14840 | .50266 | .04709 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9877.9** | **121430.** | **10073.** |
| Stddev | 1.5 | 196. | 22. |
| %RSD | .01506 | .16177 | .21820 |
| #1 | 9879.0 | 121290. | 10057. |
| #2 | 9876.8 | 121570. | 10088. |

Sample Name: 280-45026-a-15-b  Acquired: 8/15/2013 18:50:50  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00051** | **83.374** | **.05294** | **.02712** | **.43283** | **.00435** | **.00398** | **77.286** | **.00403** | **.06969** |
| Stddev | .00030 | .188 | .00155 | .00095 | .00049 | .00004 | .00124 | .074 | .00007 | .00038 |
| %RSD | 57.630 | .22501 | 2.9189 | 3.5155 | .11246 | .93011 | 31.134 | .09605 | 1.7246 | .53886 |
| #1 | -.00072 | 83.507 | .05403 | .02780 | .43318 | .00432 | .00485 | 77.339 | .00408 | .06943 |
| #2 | -.00030 | 83.241 | .05185 | .02645 | .43249 | .00438 | .00310 | 77.234 | .00398 | .06996 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15974** | **.58415** | **186.19** | **9.8080** | **.14669** | **37.150** | **5.7212** | **.00833** | **.43400** | **.17017** |
| Stddev | .00011 | .00112 | .95 | .0077 | .00062 | .160 | .0213 | .00008 | .00057 | .00004 |
| %RSD | .06920 | .19248 | .51162 | .07888 | .42500 | .42977 | .37143 | .92287 | .13186 | .02567 |
| #1 | .15982 | .58336 | 186.87 | 9.8026 | .14713 | 37.037 | 5.7061 | .00839 | .43440 | .17020 |
| #2 | .15966 | .58495 | 185.52 | 9.8135 | .14625 | 37.263 | 5.7362 | .00828 | .43359 | .17014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.2024** | **.16480** | **1.7901** | **-.00311** | **.00184** | **3.8577** | **8.2555** | **.00833** | **.29137** | **.03207** |
| Stddev | .0090 | .00068 | .0000 | .00209 | .00228 | .0598 | .1280 | .00009 | .00022 | .00201 |
| %RSD | .17232 | .40970 | .00178 | 67.229 | 124.10 | 1.5505 | 1.5505 | 1.1212 | .07709 | 6.2795 |
| #1 | 5.2088 | .16432 | 1.7900 | -.00459 | .00345 | 3.8154 | 8.1650 | .00839 | .29121 | .03065 |
| #2 | 5.1961 | .16528 | 1.7901 | -.00163 | .00023 | 3.9000 | 8.3460 | .00826 | .29153 | .03350 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.32842** | **-.00123** | F **-.17540** | **.14915** | **.61914** | **.03122** |
| Stddev | .00389 | .00051 | .00825 | .00088 | .00322 | .00161 |
| %RSD | 1.1852 | 41.574 | 4.7040 | .58687 | .52003 | 5.1612 |
| #1 | .33118 | -.00087 | -.18124 | .14853 | .61687 | .03008 |
| #2 | .32567 | -.00159 | -.16957 | .14977 | .62142 | .03236 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9378.5** | **114590.** | **9743.2** |
| Stddev | 3.1 | 562. | 54.0 |
| %RSD | .03276 | .49080 | .55393 |
| #1 | 9380.6 | 114990. | 9705.0 |
| #2 | 9376.3 | 114200. | 9781.3 |

Sample Name: 280-45026-a-16-b  Acquired: 8/15/2013 18:53:07  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00140** | **77.806** | **.05089** | **.01837** | **.38527** | **.00335** | **.00542** | **21.937** | **.00177** | **.06653** |
| Stddev | .00043 | .102 | .00275 | .00055 | .00099 | .00008 | .00046 | .002 | .00012 | .00039 |
| %RSD | 31.009 | .13072 | 5.4036 | 2.9923 | .25638 | 2.2895 | 8.5832 | .00745 | 6.5567 | .59349 |
| #1 | -.00170 | 77.734 | .05283 | .01875 | .38597 | .00329 | .00574 | 21.938 | .00185 | .06681 |
| #2 | -.00109 | 77.878 | .04894 | .01798 | .38457 | .00340 | .00509 | 21.936 | .00169 | .06625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12699** | **.54921** | **192.25** | **8.2831** | **.14225** | **34.626** | W **11.099** | **.00536** | **.32305** | **.13758** |
| Stddev | .00064 | .00042 | .01 | .0540 | .00167 | .099 | .145 | .00004 | .00007 | .00058 |
| %RSD | .50672 | .07578 | .00744 | .65159 | 1.1728 | .28508 | 1.3076 | .68477 | .02072 | .41932 |
| #1 | .12745 | .54950 | 192.26 | 8.2450 | .14107 | 34.696 | 10.997 | .00539 | .32310 | .13799 |
| #2 | .12654 | .54892 | 192.24 | 8.3213 | .14343 | 34.557 | 11.202 | .00533 | .32300 | .13718 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.2024** | **.05141** | **.30973** | **-.00190** | **.00016** | **2.7980** | **5.9878** | **.00267** | **.06770** | **.02689** |
| Stddev | .0097 | .00049 | .00364 | .00029 | .00145 | .0166 | .0356 | .00017 | .00030 | .00071 |
| %RSD | .18600 | .94656 | 1.1763 | 15.536 | 901.18 | .59478 | .59478 | 6.2429 | .44593 | 2.6571 |
| #1 | 5.2093 | .05176 | .31230 | -.00211 | -.00086 | 2.8098 | 6.0130 | .00279 | .06791 | .02740 |
| #2 | 5.1956 | .05107 | .30715 | -.00169 | .00118 | 2.7863 | 5.9626 | .00256 | .06748 | .02639 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35433** | **-.00174** | F **-.22129** | **.14411** | **.76953** | **.04768** |
| Stddev | .01033 | .00085 | .00874 | .00042 | .00194 | .00043 |
| %RSD | 2.9166 | 48.656 | 3.9515 | .29191 | .25210 | .89366 |
| #1 | .34703 | -.00234 | -.22748 | .14441 | .77090 | .04799 |
| #2 | .36164 | -.00114 | -.21511 | .14381 | .76816 | .04738 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9995.5** | **122190.** | **10245.** |
| Stddev | 26.4 | 11. | 7. |
| %RSD | .26450 | .00896 | .06764 |
| #1 | 9976.8 | 122180. | 10250. |
| #2 | 10014. | 122190. | 10240. |

Sample Name: 280-45026-a-16-b@5 Acquired: 8/15/2013 18:55:25 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.00007** | k **17.748** | k **.00828** | **.00497** | k **.08770** | k **.00084** | k **.00986** | **5.0112** | k **.00064** | k **.01565** |
| Stddev | .00025 | .052 | .00262 | .00004 | .00068 | .00000 | .00051 | .0044 | .00009 | .00011 |
| %RSD | 358.26 | .29400 | 31.653 | .76132 | .77481 | .20286 | 5.1741 | .08857 | 14.163 | .73312 |
| #1 | k .00024 | k 17.785 | k .01013 | .00494 | k .08818 | k .00084 | k .01022 | 5.0143 | k .00058 | k .01573 |
| #2 | k -.00011 | k 17.711 | k .00642 | .00500 | k .08722 | k .00084 | k .00950 | 5.0081 | k .00071 | k .01557 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.02858** | k **.12342** | k **44.520** | **1.9149** | k **.03314** | k **7.8318** | k **2.6374** | k **.00109** | **.10642** | k **.03373** |
| Stddev | .00006 | .00077 | .175 | .0550 | .00047 | .0257 | .0051 | .00027 | .01102 | .00033 |
| %RSD | .20682 | .62528 | .39410 | 2.8740 | 1.4300 | .32795 | .19475 | 24.433 | 10.350 | .97451 |
| #1 | k .02862 | k .12396 | k 44.644 | 1.8760 | k .03347 | k 7.8500 | k 2.6410 | k .00090 | .11421 | k .03396 |
| #2 | k .02854 | k .12287 | k 44.396 | 1.9538 | k .03280 | k 7.8137 | k 2.6337 | k .00128 | .09863 | k .03350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1870** | k **.01129** | k **.07216** | k **.00004** | k **.00089** | k **.67427** | k **1.4429** | k **-.00020** | **.01547** | k **.04515** |
| Stddev | .0073 | .00045 | .00538 | .00039 | .00097 | .02580 | .0552 | .00049 | .00018 | .00038 |
| %RSD | .61397 | 4.0040 | 7.4519 | 1023.6 | 108.73 | 3.8268 | 3.8268 | 248.99 | 1.1865 | .84828 |
| #1 | 1.1921 | k .01161 | k .07596 | k .00032 | k .00021 | k .65602 | k 1.4039 | k .00015 | .01560 | k .04542 |
| #2 | 1.1818 | k .01097 | k .06835 | k -.00024 | k .00157 | k .69251 | k 1.4820 | k -.00054 | .01534 | k .04488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | k **.07876** | k **.00108** | k **-.03937** | k **.02857** | k **.17601** | k **.01191** |
| Stddev | .00184 | .00082 | .03458 | .00026 | .00036 | .00085 |
| %RSD | 2.3317 | 75.414 | 87.815 | .91887 | .20572 | 7.1317 |
| #1 | k .07746 | k .00166 | k -.06382 | k .02875 | k .17575 | k .01251 |
| #2 | k .08005 | k .00051 | k -.01492 | k .02838 | k .17626 | k .01131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8979.8** | **112570.** | **9058.7** |
| Stddev | .1 | 354. | 27.4 |
| %RSD | .00060 | .31408 | .30291 |
| #1 | 8979.8 | 112320. | 9039.3 |
| #2 | 8979.7 | 112820. | 9078.1 |

Sample Name: 280-45026-a-17-b  Acquired: 8/15/2013 18:57:44  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00186** | **85.242** | **.05078** | **.01951** | **.40140** | **.00374** | **.00480** | **67.225** | **.00213** | **.06845** |
| Stddev | .00028 | .351 | .00549 | .00023 | .00050 | .00006 | .00198 | .220 | .00004 | .00010 |
| %RSD | 15.320 | .41203 | 10.816 | 1.1986 | .12431 | 1.7042 | 41.286 | .32778 | 1.8099 | .14112 |
| #1 | -.00206 | 84.994 | .05467 | .01968 | .40105 | .00378 | .00620 | 67.069 | .00210 | .06839 |
| #2 | -.00165 | 85.491 | .04690 | .01935 | .40175 | .00369 | .00340 | 67.381 | .00216 | .06852 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25073** | **.36462** | **206.99** | **9.0153** | **.15035** | **41.283** | W **10.843** | **.00782** | **.45416** | **.14930** |
| Stddev | .00049 | .00044 | .70 | .0509 | .00116 | .048 | .038 | .00015 | .00093 | .00012 |
| %RSD | .19690 | .12033 | .33703 | .56497 | .77320 | .11639 | .34707 | 1.9529 | .20421 | .07792 |
| #1 | .25108 | .36431 | 206.50 | 8.9793 | .14953 | 41.317 | 10.817 | .00793 | .45481 | .14938 |
| #2 | .25038 | .36493 | 207.48 | 9.0513 | .15117 | 41.249 | 10.870 | .00771 | .45350 | .14922 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | 10.000 | | | |
| Low Limit | | | | | | | -.01000 | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.1342** | **.07267** | **.64202** | **-.00097** | **-.00121** | **3.8388** | **8.2150** | **.00333** | **.15348** | **.02799** |
| Stddev | .0093 | .00100 | .00270 | .00170 | .00157 | .0742 | .1588 | .00047 | .00030 | .00055 |
| %RSD | .18196 | 1.3768 | .42009 | 176.03 | 130.52 | 1.9329 | 1.9329 | 14.224 | .19413 | 1.9723 |
| #1 | 5.1275 | .07337 | .64012 | -.00217 | -.00232 | 3.7863 | 8.1027 | .00367 | .15327 | .02760 |
| #2 | 5.1408 | .07196 | .64393 | .00024 | -.00009 | 3.8913 | 8.3273 | .00300 | .15369 | .02838 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.42656** | **-.00214** | F **-.24541** | **.16117** | **.51460** | **.04325** |
| Stddev | .00024 | .00008 | .01581 | .00001 | .00010 | .00090 |
| %RSD | .05581 | 3.6370 | 6.4442 | .00890 | .01936 | 2.0838 |
| #1 | .42672 | -.00219 | -.23423 | .16116 | .51452 | .04261 |
| #2 | .42639 | -.00208 | -.25660 | .16118 | .51467 | .04389 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9877.9** | **120280.** | **10162.** |
| Stddev | 19.3 | . | 8. |
| %RSD | .19557 | .00009 | .08342 |
| #1 | 9891.6 | 120280. | 10156. |
| #2 | 9864.2 | 120280. | 10168. |

Sample Name: 280-45026-a-17-b@5 Acquired: 8/15/2013 19:00:03 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186959 SOIL 6010C Q4

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **19.351** | **.01198** | **.00501** | **.08998** | **.00086** | **.00359** | **15.238** | **.00062** | **.01585** |
| Stddev | .00043 | .087 | .00522 | .00034 | .00064 | .00004 | .00130 | .055 | .00018 | .00004 |
| %RSD | 92.500 | .44796 | 43.575 | 6.8366 | .71609 | 4.5102 | 36.331 | .35960 | 29.277 | .24271 |
| #1 | -.00076 | 19.290 | .00829 | .00525 | .08953 | .00088 | .00451 | 15.199 | .00049 | .01588 |
| #2 | -.00016 | 19.413 | .01567 | .00477 | .09044 | .00083 | .00267 | 15.277 | .00074 | .01582 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05730** | **.08100** | **47.222** | **2.0353** | **.03411** | **9.3412** | **2.5710** | **.00173** | **.12587** | **.03485** |
| Stddev | .00033 | .00044 | .111 | .0645 | .00312 | .0199 | .0295 | .00007 | .00783 | .00007 |
| %RSD | .58333 | .54173 | .23589 | 3.1668 | 9.1432 | .21285 | 1.1467 | 4.0664 | 6.2201 | .20484 |
| #1 | .05706 | .08069 | 47.143 | 1.9898 | .03631 | 9.3271 | 2.5501 | .00168 | .13140 | .03490 |
| #2 | .05754 | .08131 | 47.301 | 2.0809 | .03190 | 9.3553 | 2.5918 | .00177 | .12033 | .03480 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1565** | **.01632** | **.13940** | **-.00320** | **.00025** | **.94242** | **2.0168** | **-.00057** | **.03501** | **.00561** |
| Stddev | .0015 | .00050 | .00104 | .00151 | .00420 | .03182 | .0681 | .00058 | .00024 | .00093 |
| %RSD | .13069 | 3.0794 | .74853 | 47.052 | 1656.1 | 3.3766 | 3.3766 | 101.87 | .67178 | 16.637 |
| #1 | 1.1576 | .01597 | .14014 | -.00214 | -.00272 | .96492 | 2.0649 | -.00098 | .03484 | .00626 |
| #2 | 1.1555 | .01668 | .13866 | -.00427 | .00322 | .91992 | 1.9686 | -.00016 | .03518 | .00495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09799** | **-.00001** | **-.04191** | **.03588** | **.11837** | **.01423** |
| Stddev | .00240 | .00032 | .03730 | .00009 | .00028 | .00108 |
| %RSD | 2.4522 | 3384.8 | 88.998 | .24644 | .23642 | 7.5560 |
| #1 | .09969 | .00022 | -.06828 | .03594 | .11856 | .01499 |
| #2 | .09629 | -.00024 | -.01554 | .03582 | .11817 | .01347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8938.3** | **109620.** | **9014.2** |
| Stddev | 11.1 | 314. | 41.3 |
| %RSD | .12391 | .28679 | .45871 |
| #1 | 8930.5 | 109840. | 9043.5 |
| #2 | 8946.1 | 109390. | 8985.0 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 19:02:23 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **50.047** | **.00296** | **.00105** | **.00090** | **-.00008** | **1.0309** | **-.01012** | **.00029** | **.00021** | **-.00002** | **.00354** | **50.040** |
| Stddev | .00118 | .188 | .00350 | .00024 | .00058 | .00010 | .0024 | .00133 | .00028 | .00002 | .00015 | .00008 | .158 |
| %RSD | 604.52 | .37503 | 118.17 | 22.498 | 64.557 | 120.14 | .23096 | 13.182 | 95.967 | 7.2867 | 653.90 | 2.1609 | .31657 |
| #1 | -.00064 | 49.914 | .00049 | .00122 | .00132 | -.00015 | 1.0292 | -.00918 | .00009 | .00023 | -.00013 | .00348 | 50.152 |
| #2 | .00103 | 50.179 | .00544 | .00088 | .00049 | -.00001 | 1.0326 | -.01107 | .00049 | .00020 | .00009 | .00359 | 49.928 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13205** | **.00087** | **-.00374** | **.00008** | **.00002** | **252.91** | **.00048** | **.00317** | **.00017** | **5.0082** | **-.00024** | **-.00316** | **.00197** |
| Stddev | .04229 | .00631 | .00152 | .00000 | .00001 | 1.46 | .00032 | .00071 | .00039 | .0004 | .00131 | .00338 | .00950 |
| %RSD | 32.029 | 723.42 | 40.469 | 4.7733 | 48.768 | .57640 | 67.535 | 22.274 | 222.77 | .00753 | 541.65 | 106.71 | 482.71 |
| #1 | .16195 | -.00359 | -.00267 | .00008 | .00002 | 251.88 | .00025 | .00367 | .00045 | 5.0079 | -.00117 | -.00555 | .00869 |
| #2 | .10214 | .00534 | -.00482 | .00008 | .00001 | 253.94 | .00070 | .00267 | -.00010 | 5.0085 | .00068 | -.00078 | -.00475 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00421** | **-.00078** | **.00032** | **4.8825** | **.00065** | **.00142** | **10.274** | **.00071** | **.00034** | **.02603** |
| Stddev | .02033 | .00062 | .00008 | .0070 | .00085 | .00031 | .034 | .00045 | .00057 | .00217 |
| %RSD | 482.71 | 79.322 | 24.469 | .14369 | 130.37 | 22.082 | .33033 | 63.224 | 168.22 | 8.3420 |
| #1 | .01859 | -.00034 | .00026 | 4.8874 | .00005 | .00120 | 10.298 | .00039 | -.00006 | .02757 |
| #2 | -.01017 | -.00122 | .00037 | 4.8775 | .00125 | .00164 | 10.250 | .00102 | .00074 | .02450 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8398.8** | **102770.** | **8634.0** |
| Stddev | 5.2 | 136. | 34.9 |
| %RSD | .06201 | .13197 | .40379 |
| #1 | 8395.1 | 102680. | 8609.4 |
| #2 | 8402.5 | 102870. | 8658.7 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 19:04:43 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49913** | **.51707** | **1.0058** | **.51083** | **.50800** | **.50098** | **.00325** | **5.0707** | **.50991** | **.50873** | **.50654** | **.50371** | **2.5549** |
| Stddev | .00053 | .00052 | .0027 | .00100 | .00170 | .00334 | .00215 | .0314 | .00030 | .00013 | .00036 | .00062 | .0168 |
| %RSD | .10706 | .10022 | .26517 | .19546 | .33554 | .66625 | 66.184 | .61842 | .05843 | .02628 | .07112 | .12363 | .65570 |
| #1 | .49876 | .51670 | 1.0076 | .51012 | .50680 | .49862 | .00478 | 5.0486 | .50970 | .50882 | .50679 | .50415 | 2.5430 |
| #2 | .49951 | .51743 | 1.0039 | .51153 | .50921 | .50334 | .00173 | 5.0929 | .51012 | .50863 | .50628 | .50327 | 2.5667 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.368** | **.98106** | **19.626** | **.49530** | **.50799** | **5.1523** | **.51091** | **1.0133** | **1.0245** | **-.00700** | **1.0183** | **1.0200** | **5.0203** |
| Stddev | .334 | .00590 | .019 | .00063 | .00083 | .0170 | .00112 | .0003 | .0021 | .00114 | .0010 | .0015 | .0022 |
| %RSD | .66330 | .60133 | .09737 | .12700 | .16409 | .33022 | .21856 | .03349 | .20761 | 16.267 | .10252 | .14727 | .04304 |
| #1 | 50.132 | .97689 | 19.639 | .49575 | .50858 | 5.1402 | .51170 | 1.0135 | 1.0230 | -.00780 | 1.0175 | 1.0189 | 5.0188 |
| #2 | 50.604 | .98523 | 19.612 | .49486 | .50740 | 5.1643 | .51013 | 1.0130 | 1.0260 | -.00619 | 1.0190 | 1.0210 | 5.0219 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.744** | **1.0240** | **.50284** | **-.00612** | **.49508** | **1.0406** | **.00555** | **.50086** | **.49653** | **.50641** |
| Stddev | .005 | .0012 | .00344 | .00231 | .00000 | .0019 | .01255 | .00011 | .00115 | .00555 |
| %RSD | .04304 | .11287 | .68418 | 37.761 | .00074 | .18548 | 226.20 | .02122 | .23218 | 1.0969 |
| #1 | 10.740 | 1.0232 | .50041 | -.00775 | .49508 | 1.0392 | .01443 | .50094 | .49572 | .50248 |
| #2 | 10.747 | 1.0248 | .50528 | -.00449 | .49509 | 1.0419 | -.00333 | .50079 | .49735 | .51033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8553.1** | **105470.** | **8566.0** |
| Stddev | 17.5 | 22. | 18.3 |
| %RSD | .20485 | .02050 | .21360 |
| #1 | 8540.7 | 105490. | 8578.9 |
| #2 | 8565.5 | 105460. | 8553.1 |

Sample Name: CCB Acquired: 8/15/2013 19:06:49 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **.00058** | **.00188** | **.00117** | **.00002** | **-.00001** | **.00379** | **.00041** | **.00000** | **.00009** | **-.00004** | **-.00033** |
| Stddev | .00004 | .00042 | .00037 | .00066 | .00031 | .00013 | .00142 | .00147 | .0001 | .00012 | .00011 | .00058 |
| %RSD | 4.9584 | 73.416 | 19.647 | 56.057 | 1461.8 | 1650.8 | 37.551 | 356.60 | 3338.4 | 132.99 | 288.02 | 175.80 |
| #1 | .00086 | .00088 | .00214 | .00164 | .00024 | .00008 | .00480 | .00145 | .00009 | .00001 | -.00012 | -.00074 |
| #2 | .00080 | .00028 | .00162 | .00071 | -.00020 | -.00010 | .00279 | -.00063 | -.00009 | .00018 | .00004 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00174** | **.08805** | **.00024** | **.00161** | **.00017** | **.00079** | **.07036** | **.00041** | **.00076** | **-.00009** | **-.00729** | W **.00408** |
| Stddev | .00040 | .01810 | .00248 | .00007 | .00001 | .00016 | .01171 | .00004 | .00164 | .00073 | .00096 | .00015 |
| %RSD | 23.120 | 20.560 | 1013.7 | 4.2533 | 3.4109 | 20.743 | 16.645 | 10.393 | 216.35 | 803.22 | 13.229 | 3.6262 |
| #1 | .00146 | .10085 | .00200 | .00166 | .00016 | .00067 | .07864 | .00038 | .00191 | -.00061 | -.00661 | .00418 |
| #2 | .00203 | .07525 | -.00151 | .00157 | .00017 | .00090 | .06208 | .00044 | -.00040 | .00043 | -.00797 | .00398 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00266** | **.01949** | **.04171** | **-.00061** | **-.00004** | **-.00067** | **.00022** | **-.00012** | **-.02945** | **-.00005** | **.00115** | W **.00251** |
| Stddev | .00218 | .00617 | .01320 | .00041 | .00013 | .00024 | .00003 | .00205 | .00108 | .00049 | .00009 | .00041 |
| %RSD | 82.062 | 31.655 | 31.655 | 66.923 | 314.87 | 35.722 | 12.692 | 1705.8 | 3.6815 | 968.51 | 8.1168 | 16.195 |
| #1 | .00420 | .01513 | .03237 | -.00089 | .00005 | -.00084 | .00024 | .00133 | -.03021 | .00029 | .00122 | .00222 |
| #2 | .00111 | .02385 | .05104 | -.00032 | -.00013 | -.00050 | .00020 | -.00157 | -.02868 | -.00039 | .00109 | .00279 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8562.3** | **106740.** | **8465.9** |
| Stddev | 3.3 | 286. | 7.4 |
| %RSD | .03802 | .26839 | .08798 |
| #1 | 8564.6 | 106540. | 8460.6 |
| #2 | 8560.0 | 106940. | 8471.1 |

Sample Name: CCVL-2200397 Acquired: 8/15/2013 19:09:02 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01036** | F **.13696** | **.01278** | **.09416** | **.01032** | **.00097** | **.11120** | **.21102** | **.00523** | **.01045** | **.01024** | **.01516** | **.10223** |
| Stddev | .00077 | .00049 | .00067 | .00051 | .00050 | .00003 | .00126 | .00158 | .00000 | .00032 | .00006 | .00058 | .00401 |
| %RSD | 7.4258 | .35991 | 5.2791 | .53665 | 4.8739 | 3.5450 | 1.1354 | .74928 | .04761 | 3.0970 | .62800 | 3.8149 | 3.9271 |
| #1 | .00982 | .13661 | .01230 | .09380 | .00996 | .00099 | .11031 | .21214 | .00523 | .01022 | .01019 | .01557 | .09939 |
| #2 | .01091 | .13731 | .01325 | .09452 | .01068 | .00094 | .11210 | .20991 | .00523 | .01068 | .01028 | .01475 | .10507 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1333** | **.01116** | **.20084** | **.01014** | **.01968** | **1.0898** | **.04166** | **2.8380** | **.00853** | **-.00464** | F **.00670** | **.01287** | **.49354** |
| Stddev | .0116 | .00254 | .00168 | .00003 | .00021 | .0065 | .00052 | .0144 | .00068 | .00004 | .00224 | .00099 | .01016 |
| %RSD | .36946 | 22.720 | .83607 | .30140 | 1.0582 | .59699 | 1.2501 | .50627 | 7.9767 | .86714 | 33.514 | 7.6727 | 2.0581 |
| #1 | 3.1251 | .01295 | .20203 | .01012 | .01953 | 1.0852 | .04129 | 2.8278 | .00901 | -.00467 | .00829 | .01217 | .48636 |
| #2 | 3.1415 | .00937 | .19965 | .01016 | .01983 | 1.0944 | .04203 | 2.8482 | .00804 | -.00461 | .00511 | .01356 | .50072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0562** | **.10038** | **.01027** | **.01410** | **.01003** | **.01539** | F **.02854** | **.00968** | **.02099** | **.01843** |
| Stddev | .0217 | .00073 | .00001 | .00275 | .00076 | .00105 | .00370 | .00007 | .00017 | .00295 |
| %RSD | 2.0581 | .72856 | .14046 | 19.493 | 7.5532 | 6.8495 | 12.977 | .77472 | .79620 | 15.976 |
| #1 | 1.0408 | .09987 | .01028 | .01216 | .00949 | .01614 | .03116 | .00962 | .02110 | .01635 |
| #2 | 1.0715 | .10090 | .01026 | .01604 | .01057 | .01465 | .02592 | .00973 | .02087 | .02052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8610.3** | **106900.** | **8588.8** |
| Stddev | 17.3 | 441. | 41.9 |
| %RSD | .20043 | .41270 | .48735 |
| #1 | 8598.1 | 106590. | 8618.4 |
| #2 | 8622.5 | 107210. | 8559.2 |

Sample Name: mb 280-187157/1-a  Acquired: 8/15/2013 19:11:19  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00413** | **.00013** | **.00087** | **.00025** | **-.00007** | **.00185** | **.00242** | **-.00012** | **.00022** |
| Stddev | .00023 | .00019 | .00034 | .00032 | .00040 | .00006 | .00157 | .00117 | .00024 | .00016 |
| %RSD | 61.590 | 4.5081 | 262.43 | 36.801 | 158.95 | 87.393 | 84.695 | 48.129 | 208.09 | 70.784 |
| #1 | .00053 | .00400 | -.00011 | .00110 | -.00003 | -.00011 | .00296 | .00325 | .00006 | .00034 |
| #2 | .00021 | .00426 | .00037 | .00064 | .00053 | -.00003 | .00074 | .00160 | -.00029 | .00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00007** | **.00285** | **.04375** | **-.00027** | **.00422** | **.00011** | **.00017** | **.03533** | **.00029** |
| Stddev | .00011 | .00046 | .00101 | .01467 | .00085 | .00086 | .00007 | .00010 | .00950 | .00027 |
| %RSD | 134.95 | 677.41 | 35.432 | 33.531 | 318.23 | 20.273 | 65.391 | 61.092 | 26.901 | 93.529 |
| #1 | .00000 | -.00026 | .00357 | .05412 | -.00087 | .00361 | .00016 | .00024 | .04205 | .00010 |
| #2 | .00017 | .00039 | .00214 | .03338 | .00034 | .00482 | .00006 | .00010 | .02861 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00232** | **-.00174** | **-.00473** | **-.00243** | **.00005** | **.00877** | **.01878** | **-.00051** | **.00006** | W **.00086** |
| Stddev | .00066 | .00099 | .00042 | .00093 | .00421 | .00924 | .01978 | .00049 | .00015 | .00123 |
| %RSD | 28.558 | 57.005 | 8.9544 | 38.271 | 8697.9 | 105.35 | 105.35 | 95.221 | 257.54 | 142.02 |
| #1 | .00185 | -.00104 | -.00443 | -.00177 | -.00293 | .01531 | .03277 | -.00085 | .00016 | .00000 |
| #2 | .00279 | -.00244 | -.00503 | -.00309 | .00302 | .00224 | .00479 | -.00017 | -.00005 | .00173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | .00000 |
| Low Limit | | | | | | | | | | -.00500 |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.00066** | **-.01029** | **-.00056** | **.00141** | **.00555** |
| Stddev | .00020 | .00041 | .05513 | .00020 | .00035 | .00203 |
| %RSD | 59.741 | 62.495 | 535.78 | 35.493 | 24.807 | 36.491 |
| #1 | .00019 | .00037 | .02870 | -.00042 | .00117 | .00412 |
| #2 | .00048 | .00095 | -.04928 | -.00070 | .00166 | .00698 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8739.9** | **109030.** | **8725.7** |
| Stddev | 20.7 | 52. | 4.5 |
| %RSD | .23710 | .04787 | .05180 |
| #1 | 8754.6 | 108990. | 8728.9 |
| #2 | 8725.3 | 109060. | 8722.5 |

Sample Name: lcs 280-187157/2-a  Acquired: 8/15/2013 19:13:32  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05163** | **2.0124** | **1.0780** | **1.0415** | **2.1583** | **.05211** | **2.2245** | **52.438** | F **.11187** | **.51486** |
| Stddev | .00044 | .0054 | .0011 | .0022 | .0074 | .00012 | .0009 | .304 | .00010 | .00075 |
| %RSD | .85942 | .26955 | .09787 | .20659 | .34205 | .23854 | .04069 | .57968 | .08606 | .14514 |
| #1 | .05132 | 2.0086 | 1.0772 | 1.0399 | 2.1531 | .05202 | 2.2251 | 52.223 | .11180 | .51433 |
| #2 | .05194 | 2.0163 | 1.0787 | 1.0430 | 2.1636 | .05220 | 2.2239 | 52.653 | .11194 | .51539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | .11100 | |
| Low Limit | | | | | | | | | .08800 | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21260** | **.26397** | **1.0689** | **53.217** | **1.0204** | **51.357** | **.50921** | **1.0442** | **53.468** | **.52031** |
| Stddev | .00058 | .00018 | .0056 | .314 | .0077 | .014 | .00005 | .0004 | .108 | .00056 |
| %RSD | .27053 | .06777 | .52896 | .58919 | .75269 | .02738 | .00998 | .04148 | .20173 | .10808 |
| #1 | .21219 | .26385 | 1.0649 | 52.996 | 1.0150 | 51.367 | .50925 | 1.0439 | 53.392 | .51992 |
| #2 | .21301 | .26410 | 1.0729 | 53.439 | 1.0259 | 51.347 | .50918 | 1.0445 | 53.545 | .52071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.844** | **.52477** | **-.01633** | **.49508** | **2.1102** | **10.281** | **22.000** | **2.0715** | **1.0544** | **1.0068** |
| Stddev | .013 | .00198 | .00124 | .00530 | .0015 | .035 | .075 | .0031 | .0063 | .0001 |
| %RSD | .12251 | .37725 | 7.5942 | 1.0711 | .07121 | .34059 | .34059 | .14891 | .59354 | .00801 |
| #1 | 10.834 | .52338 | -.01720 | .49133 | 2.1113 | 10.256 | 21.947 | 2.0693 | 1.0500 | 1.0069 |
| #2 | 10.853 | .52617 | -.01545 | .49883 | 2.1091 | 10.305 | 22.053 | 2.0737 | 1.0589 | 1.0067 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0070** | **2.0537** | **2.2516** | **.52791** | **.51331** | **.51982** |
| Stddev | .0013 | .0005 | .0136 | .00113 | .00196 | .00563 |
| %RSD | .12692 | .02336 | .60336 | .21371 | .38254 | 1.0830 |
| #1 | 1.0060 | 2.0540 | 2.2612 | .52871 | .51192 | .51584 |
| #2 | 1.0079 | 2.0534 | 2.2420 | .52711 | .51470 | .52381 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8378.7** | **103610.** | **8602.2** |
| Stddev | 21.2 | 518. | 11.6 |
| %RSD | .25255 | .49983 | .13436 |
| #1 | 8363.8 | 103970. | 8610.4 |
| #2 | 8393.7 | 103240. | 8594.0 |

Sample Name: 280-45425-b-1-a  Acquired: 8/15/2013 19:15:37  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.24008** | **.00398** | **.00395** | **.04153** | **.00032** | **.00099** | **43.973** | **.01661** | **.00600** |
| Stddev | .00036 | .00102 | .00133 | .00011 | .00031 | .00000 | .00020 | .236 | .00023 | .00008 |
| %RSD | 1454.9 | .42674 | 33.381 | 2.8300 | .74664 | 1.2902 | 19.691 | .53772 | 1.3938 | 1.3980 |
| #1 | -.00023 | .24081 | .00304 | .00403 | .04131 | .00032 | .00113 | 43.806 | .01678 | .00594 |
| #2 | .00028 | .23936 | .00491 | .00387 | .04175 | .00032 | .00085 | 44.140 | .01645 | .00606 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **.08606** | **3.2023** | **.73586** | **.00383** | **35.462** | **.38365** | **.00489** | **.81670** | **.01266** |
| Stddev | .00009 | .00032 | .0433 | .01352 | .00452 | .046 | .00003 | .00006 | .01308 | .00016 |
| %RSD | 383.24 | .37630 | 1.3535 | 1.8368 | 118.10 | .12992 | .00711 | 1.2140 | 1.6015 | 1.2258 |
| #1 | -.00009 | .08583 | 3.1716 | .72630 | .00063 | 35.495 | .38367 | .00485 | .80745 | .01277 |
| #2 | .00004 | .08629 | 3.2329 | .74541 | .00703 | 35.429 | .38363 | .00493 | .82595 | .01255 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03377** | **.00085** | **49.630** | **-.00075** | **.00328** | **2.5723** | **5.5047** | **-.00043** | **.21864** | **-.00185** |
| Stddev | .00047 | .00083 | .012 | .00034 | .00010 | .0449 | .0961 | .00036 | .00186 | .00069 |
| %RSD | 1.3794 | 97.954 | .02335 | 45.112 | 3.1509 | 1.7456 | 1.7456 | 82.391 | .84911 | 37.130 |
| #1 | .03410 | .00144 | 49.638 | -.00051 | .00320 | 2.5405 | 5.4367 | -.00068 | .21733 | -.00136 |
| #2 | .03344 | .00026 | 49.622 | -.00098 | .00335 | 2.6040 | 5.5726 | -.00018 | .21996 | -.00233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00190** | **.04263** | **-.00007** | **4.2056** | **.00228** |
| Stddev | .00013 | .00083 | .02441 | .00022 | .0005 | .00132 |
| %RSD | 22.504 | 43.885 | 57.261 | 337.47 | .01290 | 57.767 |
| #1 | .00066 | .00249 | .05989 | -.00022 | 4.2060 | .00321 |
| #2 | .00048 | .00131 | .02537 | .00009 | 4.2052 | .00135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8569.7** | **106670.** | **8646.6** |
| Stddev | .7 | 422. | 18.2 |
| %RSD | .00822 | .39557 | .21034 |
| #1 | 8569.2 | 106970. | 8659.4 |
| #2 | 8570.2 | 106370. | 8633.7 |

Sample Name: 280-45425-b-1-aSD@5 Acquired: 8/15/2013 19:17:51 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.05665** | **.00057** | **.00175** | **.00847** | **.00007** | **.00287** | **8.8585** | **.00338** | **.00132** |
| Stddev | .00041 | .00029 | .00129 | .00007 | .00003 | .00006 | .00123 | .0607 | .00007 | .00003 |
| %RSD | 174.56 | .51019 | 226.45 | 4.2661 | .36435 | 77.566 | 42.764 | .68486 | 2.0361 | 2.5667 |
| #1 | -.00005 | .05685 | -.00034 | .00170 | .00849 | .00011 | .00200 | 8.8156 | .00343 | .00135 |
| #2 | .00052 | .05644 | .00149 | .00180 | .00845 | .00003 | .00373 | 8.9014 | .00333 | .00130 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.01751** | **.64391** | **.20613** | **-.00067** | **7.0295** | **.07781** | **.00094** | **.20247** | **.00255** |
| Stddev | .00000 | .00025 | .00344 | .08513 | .00169 | .0156 | .00017 | .00012 | .00371 | .00008 |
| %RSD | 2.2405 | 1.4373 | .53482 | 41.298 | 251.59 | .22154 | .21449 | 12.302 | 1.8307 | 3.0778 |
| #1 | -.00007 | .01769 | .64148 | .14593 | .00052 | 7.0405 | .07793 | .00102 | .19985 | .00261 |
| #2 | -.00007 | .01734 | .64635 | .26632 | -.00186 | 7.0185 | .07769 | .00086 | .20509 | .00250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00690** | **.00024** | **9.8324** | **-.00241** | **-.00064** | **.52919** | **1.1325** | **-.00094** | **.04427** | **.00071** |
| Stddev | .00127 | .00078 | .0109 | .00271 | .00745 | .01177 | .0252 | .00045 | .00005 | .00321 |
| %RSD | 18.472 | 328.09 | .11057 | 112.73 | 1170.0 | 2.2244 | 2.2244 | 47.294 | .10380 | 450.36 |
| #1 | .00600 | -.00031 | 9.8401 | -.00049 | -.00590 | .53752 | 1.1503 | -.00063 | .04430 | -.00156 |
| #2 | .00780 | .00079 | 9.8247 | -.00432 | .00463 | .52087 | 1.1147 | -.00126 | .04424 | .00299 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00001** | **-.00620** | **-.00026** | **.85140** | **.00215** |
| Stddev | .00037 | .00070 | .04654 | .00052 | .00128 | .00125 |
| %RSD | 95.852 | 5998.2 | 750.69 | 198.23 | .15027 | 58.279 |
| #1 | .00013 | .00051 | .02671 | -.00063 | .85231 | .00304 |
| #2 | .00065 | -.00049 | -.03910 | .00011 | .85050 | .00126 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8647.5** | **107510.** | **8621.4** |
| Stddev | 25.0 | 94. | 8.1 |
| %RSD | .28935 | .08755 | .09380 |
| #1 | 8629.8 | 107440. | 8615.7 |
| #2 | 8665.1 | 107570. | 8627.2 |

Sample Name: 280-45425-b-1-b ms  Acquired: 8/15/2013 19:20:08  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05135** | **2.1973** | W **2.4030** | **1.0788** | **1.0282** | **2.1752** | **.05178** | F **2.2048** | **95.298** | **.12782** |
| Stddev | .00060 | .0042 | .0077 | .0020 | .0013 | .0134 | .00022 | .0009 | .323 | .00022 |
| %RSD | 1.1637 | .18992 | .32247 | .18791 | .12649 | .61587 | .41995 | .04042 | .33921 | .16871 |
| #1 | .05093 | 2.2002 | 2.3975 | 1.0773 | 1.0273 | 2.1657 | .05162 | 2.2041 | 95.070 | .12766 |
| #2 | .05177 | 2.1943 | 2.4084 | 1.0802 | 1.0291 | 2.1847 | .05193 | 2.2054 | 95.527 | .12797 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | | |
| Low Limit | | | 3.2000 | | | | | -.10000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51373** | **.20995** | **.34815** | **4.1875** | **53.510** | **1.0168** | **85.859** | **.88495** | **1.0349** | **54.571** |
| Stddev | .00084 | .00045 | .00173 | .0141 | .219 | .0107 | .068 | .00049 | .0019 | .536 |
| %RSD | .16283 | .21587 | .49729 | .33765 | .40876 | 1.0500 | .07906 | .05557 | .18392 | .98160 |
| #1 | .51314 | .20963 | .34693 | 4.1776 | 53.356 | 1.0093 | 85.907 | .88529 | 1.0335 | 54.192 |
| #2 | .51432 | .21027 | .34937 | 4.1975 | 53.665 | 1.0244 | 85.811 | .88460 | 1.0362 | 54.950 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52424** | W **10.860** | **.51627** | **50.780** | **.49364** | **2.0998** | **12.680** | **27.136** | W **2.0390** | **1.2639** |
| Stddev | .00096 | .023 | .00077 | .043 | .00139 | .0076 | .112 | .240 | .0086 | .0083 |
| %RSD | .18269 | .21500 | .14833 | .08484 | .28209 | .36239 | .88454 | .88454 | .41972 | .65559 |
| #1 | .52357 | 10.844 | .51572 | 50.810 | .49463 | 2.0944 | 12.601 | 26.967 | 2.0330 | 1.2580 |
| #2 | .52492 | 10.877 | .51681 | 50.749 | .49266 | 2.1052 | 12.760 | 27.306 | 2.0451 | 1.2697 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | 2.0000 | | | | | | | 2.0000 | |
| Low Limit | | -1.0000 | | | | | | | -.05000 | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0018** | **.99656** | **2.0150** | **2.1920** | **.52512** | **4.6998** | **.51246** |
| Stddev | .0008 | .00040 | .0019 | .0337 | .00059 | .0005 | .00548 |
| %RSD | .08441 | .03989 | .09264 | 1.5381 | .11234 | .00969 | 1.0700 |
| #1 | 1.0012 | .99684 | 2.0163 | 2.2158 | .52554 | 4.6995 | .50858 |
| #2 | 1.0024 | .99628 | 2.0137 | 2.1681 | .52470 | 4.7002 | .51634 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8276.4** | **102570.** | **8586.6** |
| Stddev | 14.8 | 357. | 18.5 |
| %RSD | .17922 | .34798 | .21523 |
| #1 | 8286.9 | 102310. | 8599.6 |
| #2 | 8265.9 | 102820. | 8573.5 |

Sample Name: 280-45425-b-1-c msd  Acquired: 8/15/2013 19:22:14  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05155** | **2.1889** | W **2.4134** | **1.0766** | **1.0324** | **2.1716** | **.05192** | F **2.1964** | **94.632** | **.12705** |
| Stddev | .00143 | .0007 | .0500 | .0004 | .0010 | .0062 | .00014 | .0016 | .385 | .00017 |
| %RSD | 2.7741 | .03074 | 2.0720 | .03503 | .09305 | .28302 | .27216 | .07178 | .40714 | .13581 |
| #1 | .05256 | 2.1884 | 2.3780 | 1.0764 | 1.0331 | 2.1672 | .05182 | 2.1975 | 94.360 | .12717 |
| #2 | .05054 | 2.1893 | 2.4487 | 1.0769 | 1.0318 | 2.1759 | .05202 | 2.1952 | 94.905 | .12693 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | | |
| Low Limit | | | 3.2000 | | | | | -.10000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.51286** | **.20973** | **.34628** | **4.1546** | **53.469** | **1.0165** | **85.339** | **.87884** | **1.0376** | **54.152** |
| Stddev | .00021 | .00053 | .00037 | .0082 | .226 | .0010 | .085 | .00039 | .0014 | .294 |
| %RSD | .04057 | .25484 | .10822 | .19779 | .42179 | .09985 | .09917 | .04477 | .13439 | .54226 |
| #1 | .51300 | .21011 | .34601 | 4.1488 | 53.310 | 1.0158 | 85.399 | .87856 | 1.0386 | 53.945 |
| #2 | .51271 | .20935 | .34654 | 4.1604 | 53.629 | 1.0172 | 85.279 | .87911 | 1.0366 | 54.360 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52218** | W **10.821** | **.51566** | **50.063** | **.49929** | **2.0932** | **12.721** | **27.223** | W **2.0408** | **1.2578** |
| Stddev | .00061 | .016 | .00248 | .037 | .00175 | .0054 | .156 | .334 | .0002 | .0030 |
| %RSD | .11713 | .14707 | .48036 | .07307 | .35065 | .25700 | 1.2268 | 1.2268 | .00891 | .24184 |
| #1 | .52262 | 10.832 | .51741 | 50.089 | .50052 | 2.0970 | 12.611 | 26.987 | 2.0409 | 1.2557 |
| #2 | .52175 | 10.810 | .51391 | 50.037 | .49805 | 2.0894 | 12.831 | 27.459 | 2.0407 | 1.2600 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | 2.0000 | | | | | | | 2.0000 | |
| Low Limit | | -1.0000 | | | | | | | -.05000 | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99709** | **1.0009** | **2.0088** | **2.2414** | **.52463** | **4.6452** | **.51588** |
| Stddev | .00231 | .0019 | .0042 | .0221 | .00155 | .0015 | .00377 |
| %RSD | .23188 | .18951 | .20755 | .98596 | .29466 | .03174 | .73149 |
| #1 | .99873 | .99953 | 2.0118 | 2.2570 | .52353 | 4.6462 | .51321 |
| #2 | .99546 | 1.0022 | 2.0059 | 2.2258 | .52572 | 4.6441 | .51855 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8262.1** | **102290.** | **8592.6** |
| Stddev | 7.7 | 403. | 58.1 |
| %RSD | .09335 | .39405 | .67625 |
| #1 | 8256.7 | 102580. | 8633.7 |
| #2 | 8267.6 | 102010. | 8551.5 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 19:24:20 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00098** | **50.126** | **.00511** | **.00495** | **.00081** | **-.00006** | **1.0398** | **-.00676** | **-.00001** | **.00045** | **-.00015** | **.00342** | **50.232** |
| Stddev | .00020 | .072 | .00397 | .00032 | .00045 | .00006 | .0021 | .00157 | .00002 | .00001 | .00007 | .00059 | .252 |
| %RSD | 20.839 | .14359 | 77.604 | 6.4118 | 55.525 | 94.067 | .19813 | 23.279 | 174.76 | 2.2127 | 46.710 | 17.323 | .50188 |
| #1 | .00112 | 50.075 | .00791 | .00518 | .00113 | -.00010 | 1.0383 | -.00787 | -.00003 | .00046 | -.00020 | .00384 | 50.053 |
| #2 | .00083 | 50.177 | .00231 | .00473 | .00049 | -.00002 | 1.0412 | -.00564 | .00000 | .00044 | -.00010 | .00300 | 50.410 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25932** | **.00053** | **.00007** | **-.00002** | **.00135** | **254.87** | **.00061** | **.00383** | **-.00064** | **5.0428** | **-.00047** | **.00075** | **.01327** |
| Stddev | .02027 | .00401 | .00117 | .00002 | .00001 | .67 | .00005 | .00014 | .00083 | .0053 | .00322 | .00414 | .01979 |
| %RSD | 7.8160 | 755.02 | 1708.0 | 78.525 | .44496 | .26165 | 7.9956 | 3.6175 | 130.04 | .10469 | 679.29 | 550.57 | 149.06 |
| #1 | .24499 | .00337 | .00090 | -.00001 | .00135 | 254.40 | .00065 | .00374 | -.00005 | 5.0391 | .00180 | -.00217 | -.00072 |
| #2 | .27365 | -.00230 | -.00076 | -.00003 | .00134 | 255.34 | .00058 | .00393 | -.00122 | 5.0465 | -.00275 | .00368 | .02727 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02841** | **-.00045** | **.00056** | **4.8811** | **-.00001** | **.00163** | **10.313** | **.00078** | **.00513** | **.02676** |
| Stddev | .04234 | .00011 | .00016 | .0014 | .00070 | .00262 | .075 | .00048 | .00045 | .00157 |
| %RSD | 149.06 | 24.342 | 27.908 | .02968 | 7021.1 | 160.09 | .72750 | 61.178 | 8.7691 | 5.8670 |
| #1 | -.00153 | -.00037 | .00067 | 4.8801 | -.00050 | -.00022 | 10.366 | .00044 | .00545 | .02565 |
| #2 | .05835 | -.00053 | .00045 | 4.8822 | .00048 | .00348 | 10.260 | .00112 | .00482 | .02788 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8370.2** | **101680.** | **8535.4** |
| Stddev | 4.0 | 306. | 6.2 |
| %RSD | .04823 | .30090 | .07228 |
| #1 | 8367.4 | 101460. | 8531.1 |
| #2 | 8373.1 | 101900. | 8539.8 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 19:26:41 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49725** | **.51113** | **1.0112** | **.51135** | **.50588** | **.49713** | **.00423** | **5.0283** | **.50840** | **.50592** | **.50482** | **.50225** | **2.5321** |
| Stddev | .00041 | .00033 | .0015 | .00013 | .00262 | .00180 | .00078 | .0107 | .00018 | .00082 | .00008 | .00057 | .0106 |
| %RSD | .08309 | .06505 | .14406 | .02500 | .51863 | .36114 | 18.386 | .21241 | .03636 | .16139 | .01656 | .11284 | .41958 |
| #1 | .49754 | .51089 | 1.0102 | .51144 | .50402 | .49586 | .00368 | 5.0207 | .50827 | .50650 | .50488 | .50185 | 2.5245 |
| #2 | .49696 | .51136 | 1.0123 | .51126 | .50773 | .49840 | .00478 | 5.0358 | .50853 | .50535 | .50476 | .50265 | 2.5396 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.081** | **.97303** | **19.594** | **.49491** | **.50748** | **5.1375** | **.50803** | **1.0127** | **1.0240** | **-.00397** | **1.0129** | **1.0158** | **5.0065** |
| Stddev | .172 | .00203 | .055 | .00024 | .00069 | .0093 | .00146 | .0000 | .0024 | .00099 | .0026 | .0067 | .0208 |
| %RSD | .34285 | .20818 | .27860 | .04790 | .13669 | .18167 | .28737 | .00409 | .23213 | 24.960 | .25784 | .66366 | .41566 |
| #1 | 49.960 | .97159 | 19.633 | .49508 | .50699 | 5.1441 | .50699 | 1.0127 | 1.0223 | -.00327 | 1.0148 | 1.0205 | 5.0212 |
| #2 | 50.203 | .97446 | 19.555 | .49474 | .50797 | 5.1309 | .50906 | 1.0127 | 1.0256 | -.00468 | 1.0111 | 1.0110 | 4.9918 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.714** | **1.0194** | **.49886** | **-.00404** | **.49610** | **1.0357** | **-.00795** | **.50153** | **.49574** | **.50373** |
| Stddev | .045 | .0001 | .00145 | .00361 | .00014 | .0049 | .00708 | .00075 | .00282 | .00096 |
| %RSD | .41566 | .00515 | .29080 | 89.329 | .02822 | .47621 | 89.035 | .14898 | .56909 | .19060 |
| #1 | 10.745 | 1.0195 | .49783 | -.00659 | .49619 | 1.0392 | -.00294 | .50206 | .49773 | .50305 |
| #2 | 10.682 | 1.0194 | .49989 | -.00149 | .49600 | 1.0322 | -.01295 | .50100 | .49374 | .50441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8539.7** | **104670.** | **8651.8** |
| Stddev | 8.0 | 654. | 7.5 |
| %RSD | .09344 | .62513 | .08724 |
| #1 | 8534.1 | 104210. | 8646.5 |
| #2 | 8545.4 | 105130. | 8657.2 |

Sample Name: CCB Acquired: 8/15/2013 19:28:49 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00001** | **-.00155** | **.00166** | **.00017** | **.00004** | **.00646** | **-.00501** | **-.00017** | **.00011** | **-.00003** | **.00044** | **-.00028** |
| Stddev | .00106 | .00009 | .00124 | .00054 | .00001 | .00003 | .00082 | .00155 | .00013 | .00002 | .00002 | .00010 | .00363 |
| %RSD | 3337.9 | 1163.1 | 80.020 | 32.390 | 8.6335 | 70.332 | 12.733 | 30.881 | 78.182 | 21.055 | 52.799 | 21.808 | 1311.6 |
| #1 | .00071 | -.00006 | -.00242 | .00205 | .00018 | .00005 | .00704 | -.00611 | -.00008 | .00012 | -.00004 | .00051 | .00229 |
| #2 | -.00078 | .00007 | -.00067 | .00128 | .00016 | .00002 | .00588 | -.00392 | -.00027 | .00009 | -.00002 | .00037 | -.00284 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08780** | **-.00038** | **.00095** | **.00007** | **.00082** | **.06133** | **.00002** | **-.00039** | **-.00142** | **-.00501** | **.00204** | **-.00047** | **.00433** |
| Stddev | .05574 | .00247 | .00131 | .00004 | .00003 | .02360 | .00015 | .00049 | .00057 | .00272 | .00168 | .00202 | .00517 |
| %RSD | 63.486 | 655.90 | 138.53 | 57.417 | 3.7957 | 38.475 | 666.61 | 125.82 | 40.163 | 54.295 | 82.458 | 425.39 | 119.45 |
| #1 | .04838 | -.00212 | .00188 | .00004 | .00084 | .07801 | -.00008 | -.00004 | -.00102 | -.00694 | .00085 | -.00190 | .00067 |
| #2 | .12721 | .00137 | .00002 | .00010 | .00080 | .04464 | .00013 | -.00073 | -.00183 | -.00309 | .00323 | .00095 | .00799 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00927** | **-.00033** | **-.00003** | **.00088** | **-.00015** | **.00073** | **-.02834** | **-.00055** | **.00127** | **.00226** |
| Stddev | .01107 | .00004 | .00013 | .00073 | .00008 | .00055 | .04076 | .00035 | .00005 | .00042 |
| %RSD | 119.45 | 10.738 | 444.13 | 83.028 | 48.880 | 75.228 | 143.81 | 63.806 | 3.6423 | 18.415 |
| #1 | .00144 | -.00030 | -.00012 | .00140 | -.00021 | .00034 | -.05716 | -.00030 | .00124 | .00255 |
| #2 | .01709 | -.00035 | .00006 | .00036 | -.00010 | .00111 | .00048 | -.00080 | .00131 | .00196 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8628.5** | **106730.** | **8579.3** |
| Stddev | 17.4 | 606. | 19.7 |
| %RSD | .20127 | .56801 | .23009 |
| #1 | 8616.2 | 107160. | 8593.3 |
| #2 | 8640.7 | 106300. | 8565.4 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 19:31:03 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01023** | **.10550** | **.01552** | **.09753** | **.01046** | **.00103** | **.11499** | **.21194** | **.00525** | **.01059** | **.01032** | **.01502** | **.10227** |
| Stddev | .00061 | .00020 | .00051 | .00011 | .00010 | .00009 | .00125 | .00102 | .00002 | .00006 | .00010 | .00024 | .00076 |
| %RSD | 5.9720 | .18846 | 3.2873 | .11620 | .96903 | 8.5672 | 1.0900 | .48346 | .39287 | .57353 | .98070 | 1.5837 | .73902 |
| #1 | .00979 | .10564 | .01516 | .09745 | .01039 | .00109 | .11411 | .21122 | .00527 | .01063 | .01039 | .01518 | .10280 |
| #2 | .01066 | .10536 | .01588 | .09761 | .01053 | .00097 | .11588 | .21267 | .00524 | .01054 | .01025 | .01485 | .10174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1050** | **.01027** | **.20451** | **.01018** | **.02043** | **1.1270** | **.04205** | **2.9026** | **.00810** | **-.00170** | **.00893** | **.01418** | **.49764** |
| Stddev | .0340 | .00195 | .00214 | .00005 | .00009 | .0034 | .00002 | .0124 | .00205 | .00086 | .00130 | .00330 | .00906 |
| %RSD | 1.0968 | 19.005 | 1.0440 | .49484 | .43216 | .30222 | .04707 | .42601 | 25.238 | 50.296 | 14.595 | 23.309 | 1.8197 |
| #1 | 3.1291 | .00889 | .20602 | .01022 | .02037 | 1.1245 | .04206 | 2.9114 | .00666 | -.00110 | .00985 | .01651 | .50404 |
| #2 | 3.0809 | .01165 | .20300 | .01014 | .02049 | 1.1294 | .04203 | 2.8939 | .00955 | -.00231 | .00800 | .01184 | .49123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0649** | **.10352** | **.01019** | **.01389** | **.01000** | **.01661** | **.05534** | **.00972** | **.02126** | **.01929** |
| Stddev | .0194 | .00013 | .00001 | .00105 | .00044 | .00081 | .04009 | .00013 | .00008 | .00112 |
| %RSD | 1.8197 | .12830 | .07202 | 7.5720 | 4.3697 | 4.8683 | 72.445 | 1.3390 | .37092 | 5.8277 |
| #1 | 1.0786 | .10343 | .01019 | .01315 | .00969 | .01718 | .08369 | .00981 | .02120 | .02008 |
| #2 | 1.0512 | .10362 | .01018 | .01464 | .01031 | .01604 | .02699 | .00963 | .02131 | .01849 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8649.7** | **108040.** | **8666.3** |
| Stddev | 3.6 | 111. | 45.3 |
| %RSD | .04173 | .10304 | .52288 |
| #1 | 8652.3 | 108120. | 8634.2 |
| #2 | 8647.2 | 107960. | 8698.3 |

Sample Name: 280-45432-e-1-a  Acquired: 8/15/2013 19:33:19  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **.04231** | **.00166** | **.00322** | **.01674** | **-.00005** | **.00224** | **7.0002** | **.00001** | **.00010** |
| Stddev | .00015 | .00015 | .00298 | .00000 | .00015 | .00004 | .00124 | .0264 | .00000 | .00033 |
| %RSD | 37.077 | .35391 | 179.17 | .13484 | .89205 | 79.610 | 55.607 | .37715 | 21.674 | 324.74 |
| #1 | .00030 | .04242 | -.00044 | .00322 | .01664 | -.00002 | .00312 | 6.9815 | .00001 | -.00013 |
| #2 | .00051 | .04221 | .00377 | .00322 | .01685 | -.00007 | .00136 | 7.0189 | .00001 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.00037** | **.08551** | **.61907** | **.00101** | **1.7035** | **.00302** | **.00093** | **2.1717** | **.00039** |
| Stddev | .00002 | .00016 | .00290 | .00555 | .00517 | .0023 | .00006 | .00007 | .0074 | .00049 |
| %RSD | 20.647 | 43.522 | 3.3916 | .89580 | 512.20 | .13324 | 2.1169 | 7.8673 | .34150 | 125.18 |
| #1 | -.00009 | .00025 | .08346 | .61514 | -.00264 | 1.7051 | .00297 | .00088 | 2.1664 | .00074 |
| #2 | -.00012 | .00048 | .08756 | .62299 | .00466 | 1.7019 | .00306 | .00098 | 2.1769 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00511** | **-.00140** | **1.4047** | **-.00176** | **.00315** | **3.4207** | **7.3204** | **-.00098** | **.03961** | **.00071** |
| Stddev | .00156 | .00217 | .0047 | .00100 | .00024 | .0213 | .0456 | .00041 | .00009 | .00186 |
| %RSD | 30.533 | 154.78 | .33405 | 56.791 | 7.6779 | .62241 | .62241 | 42.015 | .22653 | 261.06 |
| #1 | .00401 | -.00293 | 1.4080 | -.00247 | .00298 | 3.4057 | 7.2882 | -.00069 | .03968 | .00202 |
| #2 | .00621 | .00013 | 1.4013 | -.00105 | .00332 | 3.4358 | 7.3526 | -.00127 | .03955 | -.00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00117** | **.00158** | **-.03429** | **-.00037** | **.00356** | **.00041** |
| Stddev | .00005 | .00018 | .03703 | .00026 | .00053 | .00061 |
| %RSD | 4.3828 | 11.258 | 108.01 | 69.287 | 14.769 | 149.13 |
| #1 | .00114 | .00171 | -.06048 | -.00019 | .00319 | .00085 |
| #2 | .00121 | .00146 | -.00810 | -.00056 | .00393 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8731.9** | **108990.** | **8700.2** |
| Stddev | 10.7 | 183. | 12.8 |
| %RSD | .12295 | .16832 | .14681 |
| #1 | 8724.3 | 109120. | 8691.1 |
| #2 | 8739.5 | 108860. | 8709.2 |

Sample Name: 280-45432-e-2-a  Acquired: 8/15/2013 19:35:36  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.02312** | **-.00071** | **.00230** | **.01731** | **-.00001** | **.00358** | **5.7156** | **.00014** | **-.00011** |
| Stddev | .00022 | .00036 | .00105 | .00023 | .00022 | .00000 | .00184 | .0073 | .00007 | .00026 |
| %RSD | 42.980 | 1.5556 | 148.30 | 10.022 | 1.2770 | 9.3104 | 51.432 | .12754 | 53.861 | 233.30 |
| #1 | .00035 | .02338 | -.00145 | .00246 | .01716 | -.00001 | .00228 | 5.7104 | .00019 | -.00030 |
| #2 | .00066 | .02287 | .00003 | .00213 | .01747 | -.00002 | .00488 | 5.7208 | .00009 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00043** | **.02548** | **.41365** | **-.00054** | **2.2682** | **.00183** | **.00024** | **1.0664** | **.00030** |
| Stddev | .00001 | .00019 | .00225 | .00462 | .00213 | .0029 | .00002 | .00022 | .0200 | .00024 |
| %RSD | 12.001 | 43.376 | 8.8265 | 1.1166 | 395.83 | .12943 | .98925 | 90.790 | 1.8804 | 80.236 |
| #1 | .00010 | .00056 | .02707 | .41038 | .00097 | 2.2703 | .00185 | .00009 | 1.0806 | .00013 |
| #2 | .00012 | .00030 | .02389 | .41691 | -.00204 | 2.2661 | .00182 | .00040 | 1.0522 | .00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00302** | **-.00107** | **2.5211** | **-.00411** | **.00090** | **1.6886** | **3.6136** | **-.00117** | **.03687** | **.00008** |
| Stddev | .00065 | .00018 | .0082 | .00088 | .00155 | .0075 | .0160 | .00024 | .00024 | .00080 |
| %RSD | 21.655 | 16.830 | .32478 | 21.363 | 172.96 | .44360 | .44360 | 20.756 | .66141 | 1044.2 |
| #1 | .00348 | -.00094 | 2.5269 | -.00349 | .00199 | 1.6939 | 3.6250 | -.00134 | .03669 | -.00049 |
| #2 | .00256 | -.00120 | 2.5153 | -.00473 | -.00020 | 1.6833 | 3.6023 | -.00100 | .03704 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00112** | **-.00180** | **.00003** | **.00778** | **.00261** |
| Stddev | .00006 | .00138 | .01370 | .00001 | .00036 | .00078 |
| %RSD | 19.211 | 122.94 | 760.78 | 29.755 | 4.6116 | 29.989 |
| #1 | .00034 | .00015 | .00789 | .00004 | .00803 | .00206 |
| #2 | .00026 | .00210 | -.01149 | .00002 | .00752 | .00317 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8709.0** | **108310.** | **8762.4** |
| Stddev | .5 | 33. | 13.3 |
| %RSD | .00517 | .03093 | .15207 |
| #1 | 8708.7 | 108340. | 8771.9 |
| #2 | 8709.3 | 108290. | 8753.0 |

Sample Name: 280-45432-e-3-a  Acquired: 8/15/2013 19:37:53  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.02437** | **.00093** | **.00248** | **.01731** | **.00000** | **.00295** | **7.1819** | **.00006** | **-.00014** |
| Stddev | .00023 | .00040 | .00036 | .00009 | .00022 | .00001 | .00246 | .0231 | .00005 | .00015 |
| %RSD | 802.29 | 1.6339 | 38.194 | 3.5970 | 1.2804 | 495.22 | 83.551 | .32170 | 78.670 | 101.94 |
| #1 | -.00013 | .02465 | .00068 | .00255 | .01716 | -.00001 | .00121 | 7.1655 | .00009 | -.00025 |
| #2 | .00019 | .02409 | .00118 | .00242 | .01747 | .00001 | .00469 | 7.1982 | .00003 | -.00004 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00013** | **.04858** | **.64914** | **-.00194** | **1.5939** | **.00224** | **.00081** | **2.2956** | **.00049** |
| Stddev | .00007 | .00038 | .00170 | .01004 | .00082 | .0010 | .00015 | .00001 | .0138 | .00001 |
| %RSD | 82.967 | 291.02 | 3.5095 | 1.5469 | 42.130 | .06551 | 6.6981 | 1.0836 | .59950 | 1.4227 |
| #1 | .00013 | .00040 | .04737 | .65624 | -.00136 | 1.5947 | .00213 | .00080 | 2.2859 | .00050 |
| #2 | .00003 | -.00014 | .04978 | .64204 | -.00252 | 1.5932 | .00235 | .00082 | 2.3053 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00456** | **-.00078** | **1.2112** | **-.00270** | **-.00188** | **3.6300** | **7.7683** | **-.00068** | **.03873** | **.00068** |
| Stddev | .00161 | .00046 | .0062 | .00247 | .00120 | .0198 | .0423 | .00033 | .00023 | .00112 |
| %RSD | 35.415 | 59.248 | .50902 | 91.483 | 63.982 | .54508 | .54508 | 49.085 | .60197 | 165.68 |
| #1 | .00570 | -.00045 | 1.2156 | -.00095 | -.00103 | 3.6160 | 7.7383 | -.00092 | .03857 | -.00012 |
| #2 | .00342 | -.00110 | 1.2069 | -.00444 | -.00273 | 3.6440 | 7.7982 | -.00045 | .03890 | .00147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.00034** | **-.01591** | **-.00015** | **.00320** | **.00362** |
| Stddev | .00011 | .00053 | .01065 | .00014 | .00004 | .00210 |
| %RSD | 18.918 | 159.26 | 66.946 | 91.056 | 1.3082 | 58.093 |
| #1 | .00050 | .00071 | -.02343 | -.00025 | .00317 | .00510 |
| #2 | .00065 | -.00004 | -.00838 | -.00005 | .00323 | .00213 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8727.3** | **108870.** | **8676.0** |
| Stddev | 6.3 | 644. | 3.5 |
| %RSD | .07261 | .59185 | .04010 |
| #1 | 8722.9 | 109320. | 8673.6 |
| #2 | 8731.8 | 108410. | 8678.5 |

Sample Name: 280-45432-e-4-a  Acquired: 8/15/2013 19:40:10  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **4.4833** | **.00501** | **.01097** | **.13317** | **.00022** | **-.00099** | **27.593** | **.00034** | **.00086** |
| Stddev | .00005 | .0050 | .00005 | .00006 | .00081 | .00004 | .00052 | .011 | .00020 | .00014 |
| %RSD | 12.028 | .11167 | 1.0689 | .50515 | .60960 | 20.285 | 52.402 | .03860 | 59.142 | 16.729 |
| #1 | .00035 | 4.4868 | .00505 | .01093 | .13374 | .00019 | -.00135 | 27.600 | .00049 | .00075 |
| #2 | .00042 | 4.4798 | .00497 | .01101 | .13260 | .00025 | -.00062 | 27.585 | .00020 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00494** | **.03049** | **4.4893** | **3.5564** | **.00645** | **8.8541** | **.10933** | **.00898** | W **10.502** | **11.098** |
| Stddev | .00010 | .00041 | .0110 | .0058 | .00027 | .0197 | .00005 | .00012 | .003 | .784 |
| %RSD | 2.1036 | 1.3593 | .24504 | .16244 | 4.2352 | .22287 | .04747 | 1.3840 | .02990 | 7.0630 |
| #1 | .00501 | .03020 | 4.4971 | 3.5523 | .00625 | 8.8681 | .10936 | .00889 | 10.505 | 10.544 |
| #2 | .00487 | .03079 | 4.4815 | 3.5605 | .00664 | 8.8402 | .10929 | .00907 | 10.500 | 11.652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 10.500 | |
| Low Limit | | | | | | | | | -.50000 | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00285** | **.13092** | **.07564** | **5.4805** | **-.00142** | **.00080** | **16.192** | **34.650** | **-.00015** | **.54444** |
| Stddev | .00007 | .00067 | .00116 | .0050 | .00159 | .00188 | .125 | .266 | .00071 | .00012 |
| %RSD | 2.4578 | .51445 | 1.5376 | .09177 | 111.80 | 233.53 | .76900 | .76900 | 488.65 | .02137 |
| #1 | .00290 | .13140 | .07482 | 5.4840 | -.00254 | .00213 | 16.280 | 34.839 | -.00065 | .54436 |
| #2 | .00280 | .13044 | .07646 | 5.4769 | -.00030 | -.00052 | 16.104 | 34.462 | .00036 | .54452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00114** | **.18806** | **.00062** | **.11159** | **.00623** | **.19001** | **.00647** |
| Stddev | .00257 | .00705 | .00055 | .00569 | .00028 | .00064 | .00102 |
| %RSD | 225.46 | 3.7473 | 88.481 | 5.0962 | 4.5560 | .33923 | 15.787 |
| #1 | .00296 | .19304 | .00023 | .10757 | .00603 | .18955 | .00574 |
| #2 | -.00068 | .18308 | .00101 | .11561 | .00643 | .19047 | .00719 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8676.9** | **106490.** | **8709.2** |
| Stddev | 31.9 | 198. | 74.8 |
| %RSD | .36730 | .18565 | .85924 |
| #1 | 8699.4 | 106350. | 8656.3 |
| #2 | 8654.3 | 106630. | 8762.1 |

Sample Name: 280-45432-e-5-a  Acquired: 8/15/2013 19:42:24  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **5.9559** | **.00684** | **.01116** | **.16751** | **.00025** | **.00115** | **29.516** | **.00056** | **.00160** |
| Stddev | .00013 | .0096 | .00265 | .00004 | .00091 | .00004 | .00067 | .049 | .00004 | .00005 |
| %RSD | 21.690 | .16109 | 38.733 | .39414 | .54472 | 17.403 | 57.946 | .16479 | 7.5731 | 3.3244 |
| #1 | .00069 | 5.9627 | .00496 | .01119 | .16816 | .00022 | .00163 | 29.551 | .00053 | .00163 |
| #2 | .00051 | 5.9491 | .00871 | .01113 | .16687 | .00028 | .00068 | 29.482 | .00059 | .00156 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00900** | **.04567** | **7.1867** | **4.1718** | **.00543** | **9.7637** | **.17558** | **.01022** | **11.924** | **.00506** |
| Stddev | .00007 | .00045 | .0391 | .0167 | .00339 | .0246 | .00060 | .00029 | .083 | .00026 |
| %RSD | .73120 | .97743 | .54390 | .40105 | 62.520 | .25185 | .34113 | 2.8447 | .69983 | 5.1927 |
| #1 | .00895 | .04598 | 7.2143 | 4.1836 | .00783 | 9.7463 | .17515 | .01043 | 11.865 | .00487 |
| #2 | .00905 | .04535 | 7.1590 | 4.1599 | .00303 | 9.7811 | .17600 | .01002 | 11.983 | .00524 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15536** | **.11835** | **5.7494** | **-.00269** | **.00082** | **20.030** | **42.864** | **.00095** | **.58349** | **.00226** |
| Stddev | .00043 | .00006 | .0272 | .00286 | .00164 | .072 | .154 | .00036 | .00016 | .00034 |
| %RSD | .27723 | .05020 | .47329 | 106.00 | 199.29 | .35844 | .35844 | 37.538 | .02777 | 14.975 |
| #1 | .15505 | .11840 | 5.7301 | -.00067 | -.00034 | 20.080 | 42.972 | .00070 | .58360 | .00250 |
| #2 | .15566 | .11831 | 5.7686 | -.00471 | .00198 | 19.979 | 42.755 | .00120 | .58337 | .00202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27311** | **.00071** | **.14807** | **.00946** | **.32970** | **.00550** |
| Stddev | .00020 | .00020 | .00791 | .00035 | .00017 | .00219 |
| %RSD | .07278 | 27.603 | 5.3435 | 3.6532 | .05244 | 39.890 |
| #1 | .27297 | .00085 | .15367 | .00971 | .32982 | .00395 |
| #2 | .27325 | .00057 | .14248 | .00922 | .32958 | .00705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8825.6** | **108410.** | **8906.7** |
| Stddev | .1 | 289. | 47.7 |
| %RSD | .00102 | .26645 | .53591 |
| #1 | 8825.6 | 108610. | 8873.0 |
| #2 | 8825.5 | 108210. | 8940.5 |

Sample Name: 280-45432-e-6-a  Acquired: 8/15/2013 19:44:38  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.11103** | **-.00187** | **.00293** | **.04546** | **.00008** | **.00375** | **7.9925** | **.00017** | **.00002** |
| Stddev | .00001 | .00087 | .00152 | .00008 | .00024 | .00014 | .00181 | .0150 | .00012 | .00035 |
| %RSD | 4.1678 | .78147 | 81.302 | 2.5798 | .52617 | 173.23 | 48.136 | .18829 | 67.284 | 1663.7 |
| #1 | .00026 | .11164 | -.00295 | .00298 | .04529 | -.00002 | .00503 | 7.9818 | .00026 | -.00023 |
| #2 | .00024 | .11042 | -.00080 | .00287 | .04563 | .00018 | .00248 | 8.0031 | .00009 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.00104** | **.30309** | **.84562** | **.00036** | **3.1976** | **.01752** | **.00075** | **7.7756** | **.00032** |
| Stddev | .00006 | .00027 | .00190 | .02195 | .00316 | .0097 | .00006 | .00022 | .0252 | .00001 |
| %RSD | 21.028 | 26.122 | .62824 | 2.5962 | 871.42 | .30229 | .32479 | 29.264 | .32356 | 4.4493 |
| #1 | .00034 | .00084 | .30444 | .86115 | -.00187 | 3.1908 | .01756 | .00060 | 7.7578 | .00033 |
| #2 | .00025 | .00123 | .30175 | .83010 | .00260 | 3.2045 | .01748 | .00091 | 7.7934 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00597** | **-.00053** | **.87480** | **-.00323** | **.00067** | **4.4710** | **9.5680** | **-.00073** | **.06911** | **.00004** |
| Stddev | .00288 | .00070 | .00149 | .00082 | .00068 | .0022 | .0048 | .00009 | .00021 | .00065 |
| %RSD | 48.291 | 130.71 | .17052 | 25.483 | 101.08 | .05005 | .05005 | 11.587 | .30165 | 1672.4 |
| #1 | .00393 | -.00103 | .87374 | -.00265 | .00115 | 4.4694 | 9.5646 | -.00079 | .06896 | .00050 |
| #2 | .00801 | -.00004 | .87585 | -.00381 | .00019 | 4.4726 | 9.5713 | -.00067 | .06926 | -.00042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00519** | **.00050** | **-.02616** | **.00004** | **.00645** | **.00398** |
| Stddev | .00001 | .00026 | .01108 | .00046 | .00038 | .00066 |
| %RSD | .24413 | 51.528 | 42.361 | 1210.9 | 5.9373 | 16.627 |
| #1 | .00518 | .00032 | -.03400 | -.00029 | .00618 | .00445 |
| #2 | .00519 | .00069 | -.01833 | .00036 | .00672 | .00351 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8777.5** | **110730.** | **8928.4** |
| Stddev | 70.7 | 491. | 34.3 |
| %RSD | .80510 | .44356 | .38439 |
| #1 | 8827.4 | 111070. | 8952.7 |
| #2 | 8727.5 | 110380. | 8904.1 |

Sample Name: 280-45432-e-7-a  Acquired: 8/15/2013 19:46:56  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.06332** | **.00074** | **.00296** | **.04379** | **-.00004** | **.00203** | **7.2539** | **.00016** | **.00009** |
| Stddev | .00058 | .00028 | .00381 | .00000 | .00012 | .00006 | .00099 | .0072 | .00016 | .00017 |
| %RSD | 99.256 | .43613 | 513.50 | .03824 | .26404 | 144.84 | 48.771 | .09942 | 101.14 | 198.17 |
| #1 | .00017 | .06352 | .00344 | .00296 | .04388 | .00000 | .00133 | 7.2590 | .00027 | -.00003 |
| #2 | .00100 | .06313 | -.00195 | .00296 | .04371 | -.00008 | .00273 | 7.2488 | .00004 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00012** | **.00056** | **.24195** | **.77800** | **-.00342** | **3.1163** | **.01430** | **.00017** | **7.3847** | **.00001** |
| Stddev | .00006 | .00011 | .00191 | .11638 | .00151 | .0065 | .00001 | .00012 | .0268 | .00044 |
| %RSD | 50.626 | 18.934 | .79110 | 14.959 | 44.080 | .20829 | .08451 | 72.424 | .36256 | 4831.5 |
| #1 | .00017 | .00049 | .24060 | .69571 | -.00448 | 3.1208 | .01431 | .00008 | 7.3658 | -.00030 |
| #2 | .00008 | .00064 | .24331 | .86030 | -.00235 | 3.1117 | .01429 | .00026 | 7.4037 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00782** | **-.00120** | **.78811** | **-.00122** | **.00258** | **4.3324** | **9.2713** | **-.00100** | **.04645** | **-.00033** |
| Stddev | .00099 | .00013 | .00222 | .00015 | .00108 | .0325 | .0695 | .00054 | .00024 | .00030 |
| %RSD | 12.607 | 10.597 | .28168 | 11.966 | 42.082 | .74980 | .74980 | 53.630 | .51802 | 89.381 |
| #1 | .00852 | -.00129 | .78968 | -.00132 | .00334 | 4.3094 | 9.2221 | -.00138 | .04628 | -.00054 |
| #2 | .00712 | -.00111 | .78654 | -.00112 | .00181 | 4.3554 | 9.3205 | -.00062 | .04662 | -.00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00301** | **.00112** | **-.00029** | **-.00004** | **.00410** | **.00562** |
| Stddev | .00056 | .00081 | .02040 | .00034 | .00022 | .00268 |
| %RSD | 18.613 | 71.867 | 7000.8 | 798.17 | 5.2649 | 47.679 |
| #1 | .00340 | .00169 | -.01472 | -.00028 | .00425 | .00751 |
| #2 | .00261 | .00055 | .01413 | .00019 | .00395 | .00372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8711.1** | **108640.** | **8631.0** |
| Stddev | 8.1 | 218. | 81.4 |
| %RSD | .09271 | .20073 | .94263 |
| #1 | 8705.3 | 108480. | 8688.5 |
| #2 | 8716.8 | 108790. | 8573.5 |

Sample Name: 280-45432-e-8-a  Acquired: 8/15/2013 19:49:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **1.7465** | **.00204** | **.00688** | **.08091** | **-.00002** | **.00389** | **24.169** | **.00028** | **.00038** |
| Stddev | .00014 | .0008 | .00358 | .00084 | .00106 | .00014 | .00104 | .173 | .00009 | .00003 |
| %RSD | 30.846 | .04881 | 175.35 | 12.277 | 1.3076 | 660.88 | 26.813 | .71749 | 31.473 | 6.7855 |
| #1 | .00053 | 1.7459 | -.00049 | .00628 | .08016 | -.00012 | .00315 | 24.046 | .00022 | .00036 |
| #2 | .00034 | 1.7471 | .00457 | .00747 | .08166 | .00008 | .00462 | 24.292 | .00035 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00258** | **.00869** | **1.7116** | **2.2332** | **.00893** | **5.1318** | **.03064** | **.01074** | **16.839** | **.00158** |
| Stddev | .00014 | .00006 | .0104 | .0328 | .00105 | .0005 | .00002 | .00017 | .022 | .00008 |
| %RSD | 5.4078 | .74376 | .60959 | 1.4707 | 11.715 | .00928 | .07484 | 1.5903 | .13298 | 4.7882 |
| #1 | .00268 | .00874 | 1.7043 | 2.2100 | .00967 | 5.1321 | .03062 | .01062 | 16.855 | .00153 |
| #2 | .00248 | .00864 | 1.7190 | 2.2564 | .00819 | 5.1315 | .03066 | .01086 | 16.824 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02553** | **.01210** | **2.8370** | **-.00250** | **.00068** | **9.7129** | **20.786** | **-.00037** | **.63205** | **-.00191** |
| Stddev | .00129 | .00047 | .0051 | .00054 | .00040 | .0467 | .100 | .00037 | .00313 | .00174 |
| %RSD | 5.0368 | 3.8915 | .18069 | 21.644 | 59.403 | .48125 | .48125 | 98.508 | .49445 | 90.853 |
| #1 | .02644 | .01243 | 2.8406 | -.00288 | .00039 | 9.6798 | 20.715 | -.00064 | .62984 | -.00314 |
| #2 | .02462 | .01177 | 2.8334 | -.00211 | .00097 | 9.7459 | 20.856 | -.00011 | .63426 | -.00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08972** | **.00019** | **.24071** | **.00282** | **.03819** | **.00303** |
| Stddev | .00290 | .00164 | .04637 | .00061 | .00038 | .00006 |
| %RSD | 3.2308 | 887.71 | 19.262 | 21.612 | .99067 | 2.0577 |
| #1 | .09177 | -.00098 | .27350 | .00239 | .03792 | .00299 |
| #2 | .08767 | .00135 | .20793 | .00325 | .03845 | .00307 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8657.8** | **107840.** | **8722.3** |
| Stddev | 46.8 | 131. | 89.9 |
| %RSD | .54015 | .12190 | 1.0305 |
| #1 | 8624.7 | 107750. | 8785.8 |
| #2 | 8690.8 | 107940. | 8658.7 |

Sample Name: 280-45432-e-9-a  Acquired: 8/15/2013 19:51:27  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187157 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **2.1195** | **.00368** | **.01059** | **.11131** | **.00019** | **.00021** | **27.532** | **.00035** | **.00076** |
| Stddev | .00020 | .0117 | .00147 | .00004 | .00077 | .00006 | .00208 | .063 | .00017 | .00016 |
| %RSD | 91.516 | .55014 | 39.999 | .39972 | .69461 | 29.403 | 985.33 | .22986 | 46.902 | 21.093 |
| #1 | .00036 | 2.1113 | .00264 | .01056 | .11076 | .00023 | -.00126 | 27.488 | .00047 | .00088 |
| #2 | .00008 | 2.1278 | .00472 | .01062 | .11185 | .00015 | .00169 | 27.577 | .00024 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00256** | **.02800** | **3.0495** | **2.6580** | **.00462** | **8.5896** | **.09654** | **.00750** | **10.267** | W **10.692** |
| Stddev | .00009 | .00022 | .0229 | .0389 | .00131 | .0120 | .00007 | .00016 | .037 | .333 |
| %RSD | 3.4912 | .78025 | .75035 | 1.4645 | 28.222 | .13918 | .07215 | 2.1805 | .35736 | 3.1109 |
| #1 | .00263 | .02785 | 3.0334 | 2.6305 | .00555 | 8.5811 | .09649 | .00762 | 10.241 | 10.927 |
| #2 | .00250 | .02816 | 3.0657 | 2.6855 | .00370 | 8.5980 | .09659 | .00739 | 10.293 | 10.457 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **.12236** | **.07387** | **5.4938** | **-.00174** | **.00032** | **10.520** | **22.512** | **-.00019** | **.54043** |
| Stddev | .00020 | .00136 | .00054 | .0205 | .00177 | .00014 | .067 | .143 | .00051 | .00132 |
| %RSD | 10.119 | 1.1147 | .73674 | .37378 | 101.52 | 43.928 | .63488 | .63488 | 275.22 | .24391 |
| #1 | .00213 | .12332 | .07348 | 5.4793 | -.00049 | .00043 | 10.472 | 22.411 | .00018 | .53950 |
| #2 | .00184 | .12140 | .07425 | 5.5083 | -.00299 | .00022 | 10.567 | 22.613 | -.00055 | .54136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00175** | **.08294** | **.00057** | **.13558** | **.00321** | **.17884** | **.00305** |
| Stddev | .00075 | .00297 | .00040 | .01119 | .00045 | .00020 | .00102 |
| %RSD | 43.032 | 3.5815 | 69.677 | 8.2549 | 13.902 | .11108 | 33.404 |
| #1 | .00122 | .08504 | .00085 | .14349 | .00352 | .17870 | .00377 |
| #2 | .00228 | .08084 | .00029 | .12767 | .00289 | .17898 | .00233 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8697.3** | **107600.** | **8732.1** |
| Stddev | 28.9 | 786. | 1.9 |
| %RSD | .33217 | .73047 | .02173 |
| #1 | 8717.8 | 108150. | 8733.5 |
| #2 | 8676.9 | 107040. | 8730.8 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 19:53:43 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **50.748** | **.00132** | **.00199** | **.00059** | **-.00001** | W **1.0583** | **-.01009** | **.00011** | **.00011** | **-.00020** | **.00512** |
| Stddev | .00018 | .164 | .00140 | .00012 | .00002 | .00006 | .0035 | .00358 | .00007 | .00005 | .00008 | .00002 |
| %RSD | 21.136 | .32284 | 106.19 | 6.1693 | 3.2334 | 458.13 | .32695 | 35.491 | 64.531 | 39.981 | 39.570 | .30997 |
| #1 | .00072 | 50.632 | .00033 | .00208 | .00057 | .00003 | 1.0607 | -.00756 | .00006 | .00008 | -.00025 | .00513 |
| #2 | .00097 | 50.864 | .00231 | .00190 | .00060 | -.00005 | 1.0558 | -.01262 | .00017 | .00015 | -.00014 | .00511 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.458** | **.17594** | **.00023** | **-.00084** | **.00006** | **-.00015** | **258.54** | **.00060** | **.00098** | **.00073** | **5.0522** | **-.00057** |
| Stddev | .589 | .01763 | .00069 | .00106 | .00011 | .00014 | 1.77 | .00009 | .00035 | .00024 | .0182 | .00128 |
| %RSD | 1.1440 | 10.023 | 296.44 | 126.07 | 192.20 | 89.619 | .68327 | 14.557 | 35.768 | 32.519 | .36127 | 225.83 |
| #1 | 51.042 | .18841 | -.00026 | -.00159 | -.00002 | -.00006 | 257.30 | .00054 | .00123 | .00057 | 5.0651 | .00034 |
| #2 | 51.874 | .16347 | .00072 | -.00009 | .00014 | -.00025 | 259.79 | .00067 | .00074 | .00090 | 5.0393 | -.00148 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00150** | **.01575** | **.03369** | **-.00032** | **.00030** | **4.8640** | **-.00073** | **.00294** | **10.416** | **.00070** | **.00023** | **.03452** |
| Stddev | .00038 | .01167 | .02497 | .00005 | .00000 | .0090 | .00025 | .00006 | .026 | .00014 | .00038 | .00416 |
| %RSD | 25.657 | 74.092 | 74.092 | 15.570 | 1.3977 | .18494 | 34.093 | 1.9565 | .25403 | 20.128 | 160.53 | 12.049 |
| #1 | -.00122 | .02399 | .05135 | -.00029 | .00030 | 4.8576 | -.00055 | .00290 | 10.398 | .00060 | .00050 | .03158 |
| #2 | -.00177 | .00750 | .01604 | -.00036 | .00030 | 4.8703 | -.00090 | .00298 | 10.435 | .00080 | -.00003 | .03746 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8325.6** | **102380.** | **8460.3** |
| Stddev | 8.5 | 190. | 10.4 |
| %RSD | .10222 | .18592 | .12253 |
| #1 | 8331.6 | 102510. | 8467.6 |
| #2 | 8319.6 | 102240. | 8453.0 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 19:56:05 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50202** | **.50912** | **1.0142** | **.51563** | **.51728** | **.49945** | **.00127** | **5.0715** | **.51125** | **.50714** | **.50978** | **.50089** | **2.5744** |
| Stddev | .00059 | .00122 | .0026 | .00114 | .00135 | .00281 | .00131 | .0374 | .00040 | .00016 | .00016 | .00047 | .0049 |
| %RSD | .11843 | .23934 | .25810 | .22173 | .26126 | .56163 | 103.28 | .73638 | .07829 | .03099 | .03211 | .09469 | .19155 |
| #1 | .50160 | .50826 | 1.0161 | .51482 | .51632 | .49747 | .00219 | 5.0451 | .51153 | .50725 | .50967 | .50123 | 2.5709 |
| #2 | .50244 | .50998 | 1.0124 | .51644 | .51823 | .50143 | .00034 | 5.0980 | .51096 | .50703 | .50990 | .50056 | 2.5779 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.306** | **.97724** | **19.766** | **.49216** | **.51329** | **5.1443** | **.51267** | **1.0272** | **1.0246** | **-.00779** | **1.0076** | **1.0238** | **5.0506** |
| Stddev | .226 | .00987 | .001 | .00072 | .00048 | .0118 | .00025 | .0031 | .0023 | .00086 | .0095 | .0125 | .0194 |
| %RSD | .44866 | 1.0099 | .00304 | .14572 | .09353 | .22906 | .04866 | .29759 | .22202 | 11.106 | .94048 | 1.2233 | .38322 |
| #1 | 50.146 | .97026 | 19.766 | .49267 | .51363 | 5.1359 | .51284 | 1.0294 | 1.0262 | -.00840 | 1.0143 | 1.0327 | 5.0369 |
| #2 | 50.465 | .98421 | 19.767 | .49166 | .51295 | 5.1526 | .51249 | 1.0251 | 1.0230 | -.00717 | 1.0009 | 1.0149 | 5.0643 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.808** | **1.0313** | **.49993** | **-.00177** | **.48998** | **1.0308** | **-.01956** | **.49976** | **.49837** | **.50227** |
| Stddev | .041 | .0040 | .00203 | .00071 | .00018 | .0071 | .01034 | .00135 | .00252 | .00527 |
| %RSD | .38322 | .38368 | .40551 | 39.867 | .03704 | .68710 | 52.845 | .27021 | .50500 | 1.0502 |
| #1 | 10.779 | 1.0341 | .49850 | -.00227 | .48986 | 1.0358 | -.01225 | .50071 | .50015 | .49854 |
| #2 | 10.838 | 1.0285 | .50137 | -.00127 | .49011 | 1.0258 | -.02687 | .49880 | .49659 | .50600 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8563.5** | **106140.** | **8664.8** |
| Stddev | 6.2 | 233. | 80.0 |
| %RSD | .07253 | .21954 | .92303 |
| #1 | 8559.1 | 106300. | 8721.3 |
| #2 | 8567.9 | 105970. | 8608.2 |

Sample Name: CCB Acquired: 8/15/2013 19:58:12 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00041** | **.00141** | **.00118** | **-.00026** | **.00005** | **.00404** | **-.00321** | **.00005** | **-.00004** | **-.00010** | **.00015** | **-.00078** |
| Stddev | .00013 | .00030 | .00037 | .00000 | .00037 | .00011 | .00149 | .00254 | .00000 | .00028 | .00011 | .00012 | .00258 |
| %RSD | 132.68 | 73.812 | 26.290 | .41899 | 144.08 | 218.57 | 36.880 | 79.161 | 7.8334 | 726.09 | 119.22 | 81.569 | 329.97 |
| #1 | .00019 | .00063 | .00168 | .00118 | .00000 | .00012 | .00298 | -.00501 | .00005 | .00016 | -.00018 | .00023 | .00104 |
| #2 | .00001 | .00020 | .00115 | .00117 | -.00052 | -.00003 | .00509 | -.00141 | .00006 | -.00023 | -.00002 | .00006 | -.00261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11136** | **-.00062** | **.00226** | **.00007** | **.00064** | **.07479** | **.00041** | **.00067** | **-.00178** | **-.00609** | **.00269** | **.00300** | **.01110** |
| Stddev | .09289 | .00161 | .00089 | .00001 | .00008 | .01939 | .00010 | .00066 | .00029 | .00109 | .00051 | .00142 | .01410 |
| %RSD | 83.415 | 260.00 | 39.516 | 9.8252 | 13.174 | 25.924 | 23.490 | 98.158 | 16.287 | 17.871 | 19.013 | 47.451 | 127.05 |
| #1 | .04567 | -.00176 | .00163 | .00007 | .00058 | .08850 | .00034 | .00114 | -.00158 | -.00532 | .00233 | .00199 | .02107 |
| #2 | .17704 | .00052 | .00289 | .00008 | .00070 | .06108 | .00048 | .00021 | -.00199 | -.00686 | .00305 | .00400 | .00113 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02375** | **-.00095** | **-.00004** | **.00133** | **.00022** | **.00179** | **-.03868** | **-.00017** | **.00117** | **.00232** |
| Stddev | .03017 | .00105 | .00010 | .00253 | .00041 | .00077 | .00213 | .00007 | .00016 | .00032 |
| %RSD | 127.05 | 109.76 | 231.84 | 190.89 | 187.29 | 43.053 | 5.4942 | 42.299 | 13.841 | 13.620 |
| #1 | .04508 | -.00021 | -.00011 | -.00046 | -.00007 | .00234 | -.03718 | -.00012 | .00106 | .00209 |
| #2 | .00241 | -.00169 | .00003 | .00311 | .00051 | .00125 | -.04018 | -.00022 | .00129 | .00254 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8628.7** | **107760.** | **8558.2** |
| Stddev | 7.4 | 34. | 27.4 |
| %RSD | .08584 | .03162 | .31989 |
| #1 | 8623.5 | 107780. | 8538.9 |
| #2 | 8633.9 | 107740. | 8577.6 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 20:00:27 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01033** | **.10497** | **.01475** | **.09749** | **.01030** | **.00101** | **.11530** | **.20726** | **.00504** | **.01062** | **.01049** | **.01547** | **.10381** |
| Stddev | .00125 | .00020 | .00199 | .00002 | .00004 | .00001 | .00362 | .00310 | .00003 | .00013 | .00010 | .00032 | .00527 |
| %RSD | 12.104 | .19242 | 13.486 | .02391 | .40983 | .74837 | 3.1372 | 1.4948 | .63870 | 1.2205 | .98081 | 2.0381 | 5.0725 |
| #1 | .00944 | .10511 | .01335 | .09751 | .01033 | .00102 | .11275 | .20507 | .00502 | .01071 | .01042 | .01525 | .10008 |
| #2 | .01121 | .10483 | .01616 | .09747 | .01027 | .00101 | .11786 | .20945 | .00506 | .01052 | .01056 | .01570 | .10753 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1112** | **.00939** | **.20734** | **.01021** | **.01998** | **1.1216** | **.04215** | **2.9197** | **.00888** | **-.00438** | **.00813** | **.01640** | **.50882** |
| Stddev | .0423 | .00562 | .00019 | .00008 | .00013 | .0007 | .00003 | .0156 | .00000 | .00090 | .00085 | .00039 | .01744 |
| %RSD | 1.3594 | 59.840 | .09226 | .76333 | .66602 | .05853 | .07606 | .53505 | .01155 | 20.653 | 10.417 | 2.3897 | 3.4278 |
| #1 | 3.0813 | .01336 | .20748 | .01026 | .01988 | 1.1211 | .04217 | 2.9086 | .00888 | -.00374 | .00753 | .01612 | .49648 |
| #2 | 3.1411 | .00541 | .20721 | .01015 | .02007 | 1.1220 | .04212 | 2.9307 | .00887 | -.00502 | .00873 | .01667 | .52115 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0889** | **.10320** | **.01022** | **.01406** | **.00996** | **.01595** | **.05331** | **.00987** | **.02133** | **.01895** |
| Stddev | .0373 | .00018 | .00008 | .00165 | .00041 | .00058 | .00430 | .00058 | .00003 | .00089 |
| %RSD | 3.4278 | .17319 | .77399 | 11.748 | 4.1091 | 3.6480 | 8.0738 | 5.9163 | .15370 | 4.6773 |
| #1 | 1.0625 | .10307 | .01017 | .01289 | .01025 | .01636 | .05635 | .00946 | .02131 | .01958 |
| #2 | 1.1153 | .10332 | .01028 | .01523 | .00967 | .01554 | .05026 | .01029 | .02135 | .01832 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8568.0** | **106960.** | **8591.4** |
| Stddev | 11.3 | 125. | .7 |
| %RSD | .13131 | .11673 | .00765 |
| #1 | 8560.0 | 107050. | 8591.8 |
| #2 | 8575.9 | 106870. | 8590.9 |

Sample Name: lb 280-186884/1-b  Acquired: 8/15/2013 20:02:44  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.00317** | **-.00024** | **.00545** | **.00234** | **.00001** | **.00394** | W **.10523** | **.00013** | **.00014** |
| Stddev | .00037 | .00003 | .00103 | .00006 | .00002 | .00004 | .00165 | .00101 | .00009 | .00012 |
| %RSD | 480.03 | .87232 | 425.08 | 1.1233 | .73867 | 432.37 | 41.813 | .96006 | 68.090 | 79.880 |
| #1 | .00018 | .00315 | -.00097 | .00541 | .00233 | -.00002 | .00277 | .10594 | .00007 | .00006 |
| #2 | -.00034 | .00319 | .00048 | .00550 | .00235 | .00004 | .00510 | .10451 | .00019 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | | | | | | | | .10000 | | |
| Low Limit | | | | | | | | -.10000 | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00505** | **.00371** | **.10286** | **.00125** | **.01224** | **.00020** | **-.00008** | **179.03** | **.00004** |
| Stddev | .00000 | .00018 | .00114 | .00071 | .00009 | .00293 | .00003 | .00015 | .32 | .00009 |
| %RSD | 6.0461 | 3.5031 | 30.816 | .68601 | 7.3863 | 23.910 | 17.466 | 198.37 | .17657 | 232.67 |
| #1 | .00008 | .00518 | .00452 | .10236 | .00119 | .01017 | .00017 | -.00019 | 179.25 | .00010 |
| #2 | .00007 | .00493 | .00290 | .10336 | .00132 | .01431 | .00022 | .00003 | 178.80 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00096** | **.00001** | **-.00266** | **-.00401** | **.00201** | **.02044** | **.04374** | **-.00042** | **.00041** | **-.00011** |
| Stddev | .00074 | .00041 | .00285 | .00067 | .00501 | .02234 | .04782 | .00064 | .00007 | .00166 |
| %RSD | 76.784 | 2944.7 | 107.27 | 16.675 | 249.41 | 109.31 | 109.31 | 153.22 | 17.989 | 1497.4 |
| #1 | .00148 | -.00028 | -.00064 | -.00354 | .00555 | .03624 | .07756 | .00003 | .00036 | .00106 |
| #2 | .00044 | .00031 | -.00468 | -.00448 | -.00153 | .00464 | .00993 | -.00087 | .00047 | -.00129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00051** | **-.03488** | **-.00002** | **.00346** | **.00331** |
| Stddev | .00020 | .00021 | .02583 | .00021 | .00037 | .00154 |
| %RSD | 102.00 | 41.649 | 74.039 | 1131.2 | 10.793 | 46.514 |
| #1 | .00033 | .00036 | -.01662 | .00013 | .00372 | .00222 |
| #2 | .00005 | .00066 | -.05315 | -.00016 | .00320 | .00439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8351.9** | **103160.** | **8485.5** |
| Stddev | 14.4 | 212. | 12.9 |
| %RSD | .17188 | .20539 | .15186 |
| #1 | 8341.8 | 103310. | 8476.4 |
| #2 | 8362.1 | 103010. | 8494.6 |

Sample Name: lcs 280-186884/2-b Acquired: 8/15/2013 20:05:04 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22422** | W **.42617** | **.87859** | **.21378** | F **2.6613** | **.01070** | **.45615** | **10.818** | **.24232** | **.10594** |
| Stddev | .00027 | .00003 | .00250 | .00034 | .0019 | .00001 | .00161 | .005 | .00027 | .00003 |
| %RSD | .11863 | .00762 | .28408 | .15915 | .07207 | .04764 | .35370 | .04247 | .11186 | .03000 |
| #1 | .22441 | .42614 | .88035 | .21354 | 2.6600 | .01069 | .45501 | 10.815 | .24251 | .10591 |
| #2 | .22403 | .42619 | .87682 | .21402 | 2.6627 | .01070 | .45729 | 10.822 | .24213 | .10596 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .43200 | | | 2.6400 | | | | | |
| Low Limit | | 1.7200 | | | 2.1360 | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1287** | **.48273** | F **.27201** | F **11.051** | **.20876** | **10.197** | **.10424** | **.21686** | F **188.42** | F **.12266** |
| Stddev | .0003 | .00023 | .00261 | .000 | .00262 | .023 | .00006 | .00008 | .45 | .00000 |
| %RSD | .02726 | .04732 | .95953 | .00068 | 1.2566 | .22120 | .06201 | .03698 | .23874 | .00173 |
| #1 | 1.1285 | .48257 | .27017 | 11.050 | .20690 | 10.213 | .10420 | .21680 | 188.10 | .12266 |
| #2 | 1.1289 | .48289 | .27386 | 11.051 | .21061 | 10.181 | .10429 | .21692 | 188.74 | .12266 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Fail |
| High Limit | | | .22800 | 11.000 | | | | | 11.200 | .11100 |
| Low Limit | | | .17600 | 8.9000 | | | | | 9.1000 | .08900 |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **2.2487** | F **1.1872** | **-.00167** | **.09981** | **.64998** | **2.1148** | F **4.5256** | **.42794** | **.21304** | **.20159** |
| Stddev | .0055 | .0021 | .00067 | .00055 | .00214 | .0151 | .0323 | .00036 | .00023 | .00034 |
| %RSD | .24612 | .17416 | 40.019 | .55122 | .32901 | .71453 | .71453 | .08343 | .10733 | .16724 |
| #1 | 2.2526 | 1.1886 | -.00214 | .09942 | .65149 | 2.1255 | 4.5485 | .42769 | .21320 | .20183 |
| #2 | 2.2448 | 1.1857 | -.00120 | .10020 | .64846 | 2.1041 | 4.5028 | .42819 | .21287 | .20135 |
| Check ? | Chk Fail | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.2200 | 1.1550 | | | | | 4.9220 | | | |
| Low Limit | 1.8200 | .99000 | | | | | 4.0200 | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20591** | **.41420** | F **.47012** | **.10853** | **.54015** | **.10938** |
| Stddev | .00020 | .00409 | .02268 | .00014 | .00086 | .00004 |
| %RSD | .09893 | .98752 | 4.8236 | .12852 | .15833 | .04086 |
| #1 | .20605 | .41709 | .45408 | .10843 | .53955 | .10935 |
| #2 | .20576 | .41131 | .48615 | .10863 | .54076 | .10941 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .46400 | | | |
| Low Limit | | | .34000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8338.9** | **102880.** | **8655.4** |
| Stddev | 1.0 | 1. | 16.5 |
| %RSD | .01207 | .00088 | .19095 |
| #1 | 8339.6 | 102880. | 8643.7 |
| #2 | 8338.1 | 102880. | 8667.1 |

Sample Name: 280-45208-a-5-d  Acquired: 8/15/2013 20:07:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **.01028** | **.00896** | **.01382** | **.25989** | **.00003** | **.00003** | **106.77** | **.00161** | **.00087** |
| Stddev | .00021 | .00007 | .00237 | .00006 | .00009 | .00004 | .00112 | .40 | .00003 | .00018 |
| %RSD | 123.03 | .66837 | 26.418 | .43374 | .03459 | 119.20 | 3745.4 | .37136 | 1.9864 | 20.833 |
| #1 | -.00002 | .01023 | .00728 | .01386 | .25996 | .00000 | -.00076 | 106.49 | .00158 | .00074 |
| #2 | -.00031 | .01033 | .01063 | .01377 | .25983 | .00006 | .00082 | 107.05 | .00163 | .00100 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00199** | **.00593** | **.98190** | **.00313** | **3.7500** | **.11483** | **.00020** | **199.10** | **.00241** |
| Stddev | .00013 | .00056 | .00039 | .04834 | .00341 | .0053 | .00022 | .00012 | 1.56 | .00006 |
| %RSD | 828.52 | 28.207 | 6.5292 | 4.9235 | 108.97 | .14114 | .19406 | 58.419 | .78179 | 2.4066 |
| #1 | -.00008 | .00239 | .00566 | .94772 | .00072 | 3.7537 | .11499 | .00029 | 198.00 | .00245 |
| #2 | .00011 | .00159 | .00621 | 1.0161 | .00555 | 3.7462 | .11468 | .00012 | 200.20 | .00237 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02085** | **.42284** | **2.1871** | **-.00368** | **.00001** | **1.2641** | **2.7053** | **-.00087** | **.30857** | **-.00012** |
| Stddev | .00039 | .00091 | .0145 | .00005 | .00088 | .0085 | .0182 | .00051 | .00159 | .00074 |
| %RSD | 1.8631 | .21491 | .66193 | 1.4498 | 9566.7 | .67343 | .67343 | 57.989 | .51585 | 627.94 |
| #1 | .02058 | .42220 | 2.1769 | -.00364 | -.00061 | 1.2581 | 2.6924 | -.00051 | .30744 | -.00064 |
| #2 | .02113 | .42348 | 2.1974 | -.00372 | .00063 | 1.2702 | 2.7182 | -.00123 | .30969 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00096** | **-.03136** | **-.00019** | **.00493** | **.00231** |
| Stddev | .00028 | .00031 | .04013 | .00039 | .00014 | .00000 |
| %RSD | 93.703 | 32.889 | 127.96 | 209.19 | 2.8139 | .12437 |
| #1 | .00050 | .00118 | -.00299 | .00009 | .00503 | .00231 |
| #2 | .00010 | .00073 | -.05974 | -.00046 | .00483 | .00231 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8273.6** | **102310.** | **8605.2** |
| Stddev | 24.1 | 303. | 4.0 |
| %RSD | .29127 | .29585 | .04686 |
| #1 | 8290.6 | 102530. | 8608.0 |
| #2 | 8256.5 | 102100. | 8602.3 |

Sample Name: 280-45208-a-6-j  Acquired: 8/15/2013 20:09:32  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.09749** | **.17664** | **.01086** | **.05930** | **-.00002** | **.00275** | **37.315** | **.00328** | **.00170** |
| Stddev | .00036 | .00020 | .00036 | .00030 | .00092 | .00007 | .00014 | .403 | .00007 | .00009 |
| %RSD | 101.47 | .20337 | .20572 | 2.7496 | 1.5438 | 323.79 | 5.2062 | 1.0788 | 2.0019 | 5.1847 |
| #1 | .00010 | .09763 | .17690 | .01108 | .05865 | .00003 | .00285 | 37.030 | .00323 | .00164 |
| #2 | .00061 | .09735 | .17638 | .01065 | .05994 | -.00008 | .00264 | 37.600 | .00333 | .00176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00271** | **.05918** | **1.9733** | **.00104** | **1.6566** | **.21461** | **.00007** | **181.06** | **.00356** |
| Stddev | .00016 | .00003 | .00163 | .0259 | .00029 | .0087 | .00039 | .00001 | 1.55 | .00024 |
| %RSD | 51.591 | 1.1856 | 2.7530 | 1.3105 | 27.398 | .52539 | .18330 | 20.828 | .85747 | 6.8511 |
| #1 | .00043 | .00274 | .05803 | 1.9550 | .00084 | 1.6627 | .21488 | .00006 | 179.96 | .00339 |
| #2 | .00020 | .00269 | .06033 | 1.9916 | .00124 | 1.6504 | .21433 | .00008 | 182.16 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9170** | **.18666** | **8.3533** | **-.00367** | **.00448** | **.69767** | **1.4930** | **-.00044** | **.07685** | **-.00279** |
| Stddev | .0011 | .00055 | .0295 | .00025 | .00195 | .00547 | .0117 | .00044 | .00058 | .00182 |
| %RSD | .05616 | .29320 | .35335 | 6.9408 | 43.575 | .78342 | .78342 | 100.06 | .76121 | 65.080 |
| #1 | 1.9162 | .18627 | 8.3325 | -.00385 | .00586 | .69380 | 1.4847 | -.00074 | .07643 | -.00151 |
| #2 | 1.9178 | .18704 | 8.3742 | -.00349 | .00310 | .70153 | 1.5013 | -.00013 | .07726 | -.00407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00178** | **.00044** | **-.00015** | **.00211** | **.03202** | **.00376** |
| Stddev | .00028 | .00043 | .03799 | .00073 | .00038 | .00128 |
| %RSD | 15.628 | 95.923 | 26101. | 34.520 | 1.1715 | 34.068 |
| #1 | .00198 | .00075 | .02672 | .00262 | .03228 | .00285 |
| #2 | .00158 | .00014 | -.02701 | .00159 | .03175 | .00466 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8382.1** | **103280.** | **8667.0** |
| Stddev | 5.4 | 202. | 89.9 |
| %RSD | .06447 | .19566 | 1.0370 |
| #1 | 8378.3 | 103140. | 8730.5 |
| #2 | 8386.0 | 103430. | 8603.4 |

Sample Name: 280-45208-a-6-jSD@5 Acquired: 8/15/2013 20:11:49 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00024** | **.02734** | **.03365** | **.00290** | **.01165** | **.00000** | **.00228** | **7.5637** | **.00060** | **.00033** |
| Stddev | .00011 | .00027 | .00027 | .00025 | .00015 | .0001 | .00197 | .0254 | .00012 | .00007 |
| %RSD | 43.928 | .98565 | .78860 | 8.6673 | 1.3014 | 11094. | 86.374 | .33541 | 19.875 | 20.698 |
| #1 | -.00032 | .02715 | .03346 | .00272 | .01154 | -.00004 | .00367 | 7.5458 | .00051 | .00037 |
| #2 | -.00017 | .02753 | .03384 | .00308 | .01175 | .00004 | .00089 | 7.5817 | .00068 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.00078** | **.02273** | **.50014** | **.00011** | **.34021** | **.04340** | **.00004** | **37.061** | **.00077** |
| Stddev | .00009 | .00023 | .00088 | .07471 | .00142 | .00187 | .00004 | .00003 | .240 | .00002 |
| %RSD | 124.31 | 29.616 | 3.8865 | 14.939 | 1318.6 | .55030 | .08746 | 92.343 | .64890 | 2.9585 |
| #1 | -.00001 | .00061 | .02336 | .55297 | .00111 | .34153 | .04343 | .00006 | 36.890 | .00075 |
| #2 | -.00014 | .00094 | .02211 | .44731 | -.00090 | .33889 | .04338 | .00001 | 37.231 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36941** | **.03750** | **1.6138** | **-.00226** | **.00171** | **.14190** | **.30366** | **-.00100** | **.01574** | **-.00012** |
| Stddev | .00063 | .00114 | .0070 | .00146 | .00323 | .00887 | .01898 | .00038 | .00014 | .00101 |
| %RSD | .17033 | 3.0295 | .43262 | 64.880 | 188.67 | 6.2492 | 6.2492 | 38.163 | .90354 | 816.61 |
| #1 | .36986 | .03830 | 1.6187 | -.00329 | -.00057 | .13562 | .29024 | -.00128 | .01564 | -.00084 |
| #2 | .36897 | .03670 | 1.6089 | -.00122 | .00400 | .14817 | .31707 | -.00073 | .01584 | .00059 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00059** | **-.01075** | **.00062** | **.00915** | **.00205** |
| Stddev | .00014 | .00032 | .00171 | .00115 | .00014 | .00111 |
| %RSD | 30.948 | 54.216 | 15.905 | 186.33 | 1.5816 | 54.046 |
| #1 | .00036 | .00081 | -.00954 | .00143 | .00905 | .00127 |
| #2 | .00057 | .00036 | -.01196 | -.00020 | .00925 | .00283 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8553.2** | **107020.** | **8652.3** |
| Stddev | .5 | 389. | 4.5 |
| %RSD | .00597 | .36326 | .05234 |
| #1 | 8553.5 | 106740. | 8655.5 |
| #2 | 8552.8 | 107290. | 8649.1 |

Sample Name: 280-45208-a-6-k ms  Acquired: 8/15/2013 20:14:07  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .22791 | .52003 | 1.0630 | .22102 | 2.7495 | .01079 | F .46070 | 47.011 | .24753 | .10785 |
| Stddev | .00080 | .00011 | .0024 | .00075 | .0004 | .00000 | .00359 | .161 | .00026 | .00019 |
| %RSD | .35188 | .02191 | .22968 | .34150 | .01448 | .02870 | .77902 | .34215 | .10524 | .17267 |
| #1 | .22848 | .52011 | 1.0647 | .22049 | 2.7492 | .01080 | .45816 | 46.897 | .24735 | .10772 |
| #2 | .22735 | .51994 | 1.0612 | .22156 | 2.7497 | .01079 | .46324 | 47.125 | .24772 | .10799 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.1393 | .48763 | .27098 | 12.848 | .20894 | 11.748 | .30988 | .21863 | 187.19 | .11138 |
| Stddev | .0001 | .00009 | .00119 | .054 | .00493 | .014 | .00029 | .00028 | .20 | .00014 |
| %RSD | .01360 | .01798 | .43779 | .41650 | 2.3575 | .11752 | .09456 | .12901 | .10515 | .12356 |
| #1 | 1.1392 | .48769 | .27014 | 12.810 | .20546 | 11.758 | .31009 | .21843 | 187.32 | .11128 |
| #2 | 1.1394 | .48757 | .27181 | 12.886 | .21243 | 11.738 | .30968 | .21883 | 187.05 | .11147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 4.1366 | 1.3620 | 8.0522 | .10015 | .66250 | 2.8021 | 5.9965 | .43041 | .28870 | .20394 |
| Stddev | .0028 | .0016 | .0065 | .00019 | .00013 | .0110 | .0236 | .00182 | .00016 | .00179 |
| %RSD | .06845 | .11912 | .08105 | .19387 | .01889 | .39340 | .39340 | .42310 | .05431 | .87640 |
| #1 | 4.1346 | 1.3632 | 8.0568 | .10001 | .66242 | 2.7943 | 5.9798 | .42912 | .28859 | .20268 |
| #2 | 4.1386 | 1.3609 | 8.0476 | .10029 | .66259 | 2.8099 | 6.0131 | .43169 | .28881 | .20521 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .20848 | .41536 | .41990 | .11275 | .56702 | .11030 |
| Stddev | .00039 | .00001 | .02252 | .00007 | .00030 | .00265 |
| %RSD | .18882 | .00344 | 5.3629 | .06315 | .05217 | 2.3990 |
| #1 | .20820 | .41537 | .43583 | .11280 | .56723 | .10843 |
| #2 | .20876 | .41535 | .40398 | .11270 | .56681 | .11218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8419.0 | 104310. | 8699.5 |
| Stddev | 12.8 | 5. | 21.1 |
| %RSD | .15189 | .00484 | .24274 |
| #1 | 8409.9 | 104310. | 8714.5 |
| #2 | 8428.0 | 104310. | 8684.6 |

Sample Name: 280-45208-a-6-l msd  Acquired: 8/15/2013 20:16:15  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W .20744 | .47501 | .97188 | .20344 | 2.5144 | .00980 | F .42014 | 42.920 | .22598 | .09872 |
| Stddev | .00116 | .00068 | .00207 | .00020 | .0102 | .00002 | .00309 | .140 | .00031 | .00051 |
| %RSD | .55882 | .14394 | .21261 | .09851 | .40508 | .19566 | .73525 | .32732 | .13714 | .51653 |
| #1 | .20662 | .47453 | .97042 | .20330 | 2.5072 | .00981 | .42232 | 42.821 | .22576 | .09836 |
| #2 | .20826 | .47549 | .97334 | .20358 | 2.5216 | .00978 | .41795 | 43.019 | .22620 | .09908 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | .10000 | | | | | | .10000 | | | |
| Low Limit | -.01000 | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.0427 | .44536 | .25164 | 11.802 | .19089 | 10.715 | .28274 | .20103 | 170.52 | .10226 |
| Stddev | .0010 | .00139 | .00011 | .048 | .00122 | .009 | .00039 | .00023 | .54 | .00042 |
| %RSD | .09514 | .31184 | .04311 | .40869 | .63917 | .08193 | .13798 | .11477 | .31678 | .41467 |
| #1 | 1.0420 | .44634 | .25172 | 11.768 | .19176 | 10.722 | .28302 | .20087 | 170.14 | .10256 |
| #2 | 1.0434 | .44437 | .25156 | 11.836 | .19003 | 10.709 | .28247 | .20119 | 170.91 | .10196 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 3.7736 | 1.2482 | 7.3329 | .09164 | .60131 | 2.5596 | 5.4776 | .39303 | .26364 | .18593 |
| Stddev | .0056 | .0009 | .0074 | .00104 | .00323 | .0118 | .0253 | .00232 | .00082 | .00005 |
| %RSD | .14845 | .07007 | .10098 | 1.1400 | .53676 | .46124 | .46124 | .59109 | .31036 | .02931 |
| #1 | 3.7776 | 1.2489 | 7.3381 | .09238 | .60359 | 2.5513 | 5.4597 | .39467 | .26306 | .18597 |
| #2 | 3.7697 | 1.2476 | 7.3277 | .09091 | .59902 | 2.5680 | 5.4954 | .39139 | .26422 | .18590 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .18896 | .38011 | .39896 | .10243 | .51750 | .10132 |
| Stddev | .00044 | .00148 | .00713 | .00058 | .00216 | .00018 |
| %RSD | .23103 | .38838 | 1.7867 | .56323 | .41791 | .17348 |
| #1 | .18927 | .38116 | .39392 | .10284 | .51903 | .10145 |
| #2 | .18865 | .37907 | .40400 | .10202 | .51597 | .10120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8443.3 | 105280. | 8796.8 |
| Stddev | 3.4 | 488. | 28.5 |
| %RSD | .04011 | .46307 | .32421 |
| #1 | 8440.9 | 104940. | 8776.7 |
| #2 | 8445.7 | 105630. | 8817.0 |

Sample Name: 280-45208-a-6-jPDS  Acquired: 8/15/2013 20:18:23  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05057** | **1.0434** | **.38112** | **.11195** | **.16164** | **.04952** | **.00245** | **56.980** | **.05494** | **.05082** |
| Stddev | .00027 | .0009 | .00189 | .00087 | .00022 | .00003 | .00023 | .188 | .00022 | .00003 |
| %RSD | .52940 | .08998 | .49614 | .77393 | .13887 | .05342 | 9.2458 | .33055 | .39263 | .06073 |
| #1 | .05038 | 1.0427 | .37978 | .11134 | .16149 | .04950 | .00229 | 56.846 | .05478 | .05080 |
| #2 | .05076 | 1.0441 | .38246 | .11257 | .16180 | .04954 | .00261 | 57.113 | .05509 | .05084 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05112** | **.05254** | **1.0759** | **22.131** | **.09603** | **20.438** | **.25875** | **.05230** | **200.81** | **.05325** |
| Stddev | .00003 | .00004 | .0044 | .083 | .00334 | .029 | .00035 | .00044 | 1.04 | .00008 |
| %RSD | .06124 | .08366 | .41171 | .37677 | 3.4808 | .14105 | .13418 | .84086 | .51631 | .14936 |
| #1 | .05115 | .05251 | 1.0728 | 22.072 | .09367 | 20.458 | .25850 | .05199 | 200.08 | .05320 |
| #2 | .05110 | .05257 | 1.0791 | 22.190 | .09839 | 20.418 | .25900 | .05261 | 201.54 | .05331 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.0286** | **.27934** | **8.3154** | **.10008** | **.20487** | **5.7031** | **12.205** | **.10053** | **.12643** | **.18829** |
| Stddev | .0111 | .00132 | .0083 | .00204 | .00133 | .0324 | .069 | .00001 | .00081 | .00145 |
| %RSD | .27468 | .47133 | .09971 | 2.0413 | .64834 | .56781 | .56781 | .00544 | .64322 | .77151 |
| #1 | 4.0208 | .28027 | 8.3212 | .09864 | .20393 | 5.6802 | 12.156 | .10053 | .12585 | .18932 |
| #2 | 4.0365 | .27841 | 8.3095 | .10153 | .20580 | 5.7260 | 12.254 | .10053 | .12700 | .18726 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05115** | **.18883** | **.50360** | **.05265** | **.22720** | **.05298** |
| Stddev | .00000 | .00031 | .01339 | .00006 | .00028 | .00119 |
| %RSD | .00561 | .16507 | 2.6584 | .10681 | .12112 | 2.2507 |
| #1 | .05115 | .18905 | .51307 | .05262 | .22739 | .05214 |
| #2 | .05114 | .18861 | .49414 | .05269 | .22700 | .05382 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8416.0** | **104250.** | **8826.2** |
| Stddev | 19.8 | 122. | 73.6 |
| %RSD | .23499 | .11711 | .83403 |
| #1 | 8402.0 | 104330. | 8774.1 |
| #2 | 8430.0 | 104160. | 8878.2 |

Sample Name: 280-45208-a-11-d  Acquired: 8/15/2013 20:20:32  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187149 TCLP 6010B DU

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.02063** | **.25728** | **.00788** | **.01761** | **.00001** | **.00297** | **96.246** | **.00384** | **.00233** |
| Stddev | .00046 | .00016 | .00120 | .00022 | .00013 | .00004 | .00378 | .392 | .00014 | .00013 |
| %RSD | 94.472 | .75367 | .46566 | 2.7924 | .74148 | 261.35 | 127.31 | .40699 | 3.6830 | 5.6017 |
| #1 | .00080 | .02052 | .25643 | .00804 | .01752 | .00004 | .00564 | 95.969 | .00374 | .00224 |
| #2 | .00016 | .02074 | .25813 | .00773 | .01770 | -.00001 | .00030 | 96.523 | .00394 | .00243 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00328** | **.01721** | **1.9177** | **-.00003** | **2.2318** | **.30240** | **.00046** | **182.95** | **.00451** |
| Stddev | .00008 | .00010 | .00072 | .0202 | .00504 | .0016 | .00085 | .00023 | .51 | .00012 |
| %RSD | 29.532 | 3.1646 | 4.1827 | 1.0545 | 14389. | .07275 | .28082 | 51.259 | .27784 | 2.5549 |
| #1 | .00023 | .00321 | .01670 | 1.9034 | .00353 | 2.2329 | .30300 | .00029 | 182.59 | .00459 |
| #2 | .00034 | .00335 | .01772 | 1.9320 | -.00360 | 2.2306 | .30180 | .00062 | 183.31 | .00443 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.4650** | **.03702** | **16.268** | **-.00284** | **.00388** | **.75816** | **1.6225** | **-.00054** | **.09350** | **.00052** |
| Stddev | .0066 | .00055 | .004 | .00068 | .00115 | .01500 | .0321 | .00038 | .00090 | .00144 |
| %RSD | .14710 | 1.4840 | .02731 | 23.913 | 29.762 | 1.9785 | 1.9785 | 70.761 | .96266 | 279.96 |
| #1 | 4.4604 | .03663 | 16.271 | -.00236 | .00470 | .76877 | 1.6452 | -.00027 | .09286 | -.00051 |
| #2 | 4.4697 | .03741 | 16.264 | -.00332 | .00306 | .74756 | 1.5998 | -.00081 | .09414 | .00154 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **.00026** | **-.04649** | **.00565** | **.01863** | **.00252** |
| Stddev | .00007 | .00087 | .04546 | .00082 | .00007 | .00005 |
| %RSD | 9.7869 | 340.26 | 97.770 | 14.441 | .39596 | 1.9202 |
| #1 | .00067 | .00087 | -.01435 | .00508 | .01869 | .00249 |
| #2 | .00077 | -.00036 | -.07864 | .00623 | .01858 | .00256 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8449.7** | **105240.** | **8865.8** |
| Stddev | 3.6 | 367. | 79.1 |
| %RSD | .04250 | .34904 | .89219 |
| #1 | 8452.2 | 104980. | 8921.7 |
| #2 | 8447.2 | 105500. | 8809.9 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 20:22:49 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00143** | **50.968** | **.00175** | **.00179** | **.00101** | **.00001** | W **1.0610** | **-.00745** | **-.00001** | **-.00008** | **-.00008** | **.00529** |
| Stddev | .00039 | .133 | .00281 | .00082 | .00033 | .00009 | .0050 | .00272 | .00021 | .00000 | .00006 | .00028 |
| %RSD | 27.430 | .26186 | 160.74 | 45.682 | 32.834 | 984.89 | .47411 | 36.513 | 3051.5 | 1.4131 | 73.376 | 5.2121 |
| #1 | .00171 | 50.874 | .00374 | .00237 | .00077 | .00007 | 1.0574 | -.00553 | .00014 | -.00008 | -.00004 | .00549 |
| #2 | .00115 | 51.063 | -.00024 | .00121 | .00124 | -.00005 | 1.0645 | -.00937 | -.00016 | -.00008 | -.00012 | .00510 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.399** | **.25154** | **.00228** | **-.00329** | **.00003** | **.00010** | **260.20** | **.00058** | **.00286** | **-.00030** | **5.0473** | **-.00116** |
| Stddev | .226 | .07553 | .00063 | .00505 | .00002 | .00023 | .45 | .00037 | .00046 | .00131 | .0070 | .00082 |
| %RSD | .43957 | 30.027 | 27.498 | 153.46 | 74.358 | 227.51 | .17442 | 63.364 | 16.170 | 436.42 | .13853 | 71.208 |
| #1 | 51.239 | .19813 | .00273 | -.00687 | .00002 | -.00006 | 259.88 | .00084 | .00319 | .00063 | 5.0424 | -.00058 |
| #2 | 51.558 | .30494 | .00184 | .00028 | .00005 | .00026 | 260.52 | .00032 | .00253 | -.00123 | 5.0522 | -.00174 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00305** | **.00122** | **.00262** | **-.00104** | **.00039** | **4.8572** | **-.00105** | **.00270** | **10.482** | **.00099** | **.00003** | **.03854** |
| Stddev | .00192 | .02069 | .04427 | .00012 | .00006 | .0032 | .00063 | .00022 | .005 | .00012 | .00012 | .00164 |
| %RSD | 62.804 | 1691.6 | 1691.6 | 11.277 | 16.412 | .06645 | 59.917 | 8.1593 | .05109 | 12.076 | 462.92 | 4.2581 |
| #1 | -.00441 | .01585 | .03392 | -.00096 | .00035 | 4.8549 | -.00150 | .00286 | 10.485 | .00090 | -.00006 | .03970 |
| #2 | -.00170 | -.01340 | -.02868 | -.00113 | .00044 | 4.8595 | -.00061 | .00254 | 10.478 | .00107 | .00011 | .03738 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8515.6** | **104920.** | **8719.3** |
| Stddev | 15.9 | 366. | 35.7 |
| %RSD | .18636 | .34842 | .40969 |
| #1 | 8526.9 | 104660. | 8694.0 |
| #2 | 8504.4 | 105180. | 8744.5 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 20:25:09 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50393** | **.51310** | **1.0232** | **.52037** | **.51991** | **.50294** | **.00116** | **5.0799** | **.51393** | **.50792** | **.51168** | **.50660** | **2.5784** |
| Stddev | .00195 | .00025 | .0021 | .00026 | .00044 | .00239 | .00071 | .0260 | .00110 | .00167 | .00146 | .00164 | .0133 |
| %RSD | .38779 | .04880 | .20504 | .04987 | .08525 | .47467 | 61.638 | .51082 | .21389 | .32845 | .28452 | .32345 | .51657 |
| #1 | .50255 | .51292 | 1.0217 | .52056 | .52022 | .50125 | .00065 | 5.0616 | .51471 | .50910 | .51271 | .50544 | 2.5690 |
| #2 | .50531 | .51327 | 1.0247 | .52019 | .51960 | .50463 | .00167 | 5.0983 | .51316 | .50674 | .51065 | .50776 | 2.5878 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.518** | **.97630** | **19.740** | **.49411** | **.51679** | **5.2820** | **.51413** | **1.0327** | **1.0323** | **-.00783** | **1.0192** | **1.0299** | **5.0315** |
| Stddev | .015 | .00006 | .040 | .00009 | .00137 | .0131 | .00114 | .0047 | .0025 | .00306 | .0040 | .0015 | .0358 |
| %RSD | .03014 | .00620 | .20318 | .01830 | .26575 | .24727 | .22205 | .45565 | .24418 | 39.151 | .38813 | .14280 | .71083 |
| #1 | 50.508 | .97625 | 19.712 | .49405 | .51776 | 5.2728 | .51494 | 1.0360 | 1.0341 | -.01000 | 1.0220 | 1.0289 | 5.0063 |
| #2 | 50.529 | .97634 | 19.768 | .49418 | .51582 | 5.2912 | .51332 | 1.0293 | 1.0305 | -.00566 | 1.0164 | 1.0310 | 5.0568 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.768** | **1.0360** | **.50255** | **-.00269** | **.49330** | **1.0348** | **-.00116** | **.50525** | **.49796** | **.50320** |
| Stddev | .077 | .0054 | .00133 | .00154 | .00045 | .0016 | .03157 | .00060 | .00151 | .00481 |
| %RSD | .71083 | .52089 | .26551 | 57.314 | .09204 | .15130 | 2726.3 | .11939 | .30288 | .95552 |
| #1 | 10.713 | 1.0398 | .50160 | -.00378 | .49298 | 1.0359 | -.02348 | .50567 | .49689 | .49980 |
| #2 | 10.822 | 1.0322 | .50349 | -.00160 | .49362 | 1.0337 | .02116 | .50482 | .49902 | .50660 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8695.5** | **107600.** | **8908.8** |
| Stddev | 19.8 | 169. | 36.8 |
| %RSD | .22725 | .15720 | .41355 |
| #1 | 8681.5 | 107720. | 8882.7 |
| #2 | 8709.5 | 107480. | 8934.8 |

Sample Name: CCB  Acquired: 8/15/2013 20:27:16  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00018** | **.00032** | **.00082** | **.00003** | **-.00001** | **.00699** | **.00039** | **.00008** | **.00005** | **.00004** | **.00023** |
| Stddev | .00041 | .00007 | .00066 | .00015 | .00004 | .00003 | .00134 | .00359 | .00021 | .00007 | .00020 | .00022 |
| %RSD | 269.26 | 39.778 | 206.79 | 18.269 | 155.83 | 368.36 | 19.118 | 921.85 | 246.24 | 152.59 | 556.52 | 92.635 |
| #1 | -.00014 | -.00022 | -.00015 | .00071 | .00006 | -.00003 | .00793 | .00293 | .00023 | .00009 | .00017 | .00039 |
| #2 | .00045 | -.00013 | .00078 | .00093 | .00000 | .00001 | .00604 | -.00215 | -.00006 | .00000 | -.00010 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.14201** | W **.00340** | **.00183** | **.00009** | **.00065** | W **.16169** | **.00022** | **.00063** | **-.00173** | **-.00616** | W **.00454** |
| Stddev | .00111 | .05981 | .00340 | .00027 | .00001 | .00007 | .02148 | .00015 | .00039 | .00038 | .00412 | .00030 |
| %RSD | 946.48 | 42.120 | 100.01 | 14.982 | 13.374 | 10.322 | 13.283 | 69.526 | 62.180 | 21.702 | 66.882 | 6.6475 |
| #1 | -.00090 | .18430 | .00581 | .00164 | .00008 | .00060 | .17688 | .00033 | .00090 | -.00199 | -.00325 | .00475 |
| #2 | .00067 | .09971 | .00100 | .00203 | .00010 | .00070 | .14650 | .00011 | .00035 | -.00146 | -.00907 | .00433 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00261 | | | | .09160 | | | | | .00314 |
| Low Limit | | | -.00261 | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00206** | **.00204** | **.00436** | **-.00033** | **.00001** | **.00015** | **.00048** | **.00156** | **-.02779** | **-.00037** | **.00098** | W **.00411** |
| Stddev | .00343 | .02194 | .04695 | .00014 | .00007 | .00049 | .00045 | .00018 | .00877 | .00011 | .00033 | .00005 |
| %RSD | 166.42 | 1076.1 | 1076.1 | 43.306 | 787.73 | 331.88 | 94.736 | 11.582 | 31.560 | 29.738 | 33.979 | 1.2481 |
| #1 | .00448 | .01755 | .03756 | -.00023 | .00006 | .00049 | .00080 | .00169 | -.02159 | -.00045 | .00075 | .00415 |
| #2 | -.00036 | -.01347 | -.02883 | -.00044 | -.00004 | -.00020 | .00016 | .00143 | -.03399 | -.00029 | .00122 | .00407 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8799.5** | **110500.** | **8818.0** |
| Stddev | 1.6 | 229. | 9.7 |
| %RSD | .01848 | .20746 | .10970 |
| #1 | 8800.7 | 110670. | 8824.9 |
| #2 | 8798.4 | 110340. | 8811.2 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 20:29:32 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01044** | **.10741** | **.01653** | **.09963** | **.01048** | **.00102** | **.11923** | **.21472** | **.00543** | **.01084** | **.01058** | **.01563** | **.10945** |
| Stddev | .00030 | .00039 | .00162 | .00022 | .00020 | .00008 | .00069 | .00475 | .00000 | .00008 | .00010 | .00011 | .00145 |
| %RSD | 2.9141 | .36162 | 9.8102 | .21855 | 1.9376 | 7.8863 | .58031 | 2.2110 | .07243 | .76758 | .94273 | .71117 | 1.3253 |
| #1 | .01066 | .10768 | .01768 | .09947 | .01034 | .00108 | .11972 | .21807 | .00542 | .01079 | .01065 | .01555 | .10843 |
| #2 | .01023 | .10713 | .01538 | .09978 | .01063 | .00096 | .11874 | .21136 | .00543 | .01090 | .01051 | .01571 | .11048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1842** | **.01049** | **.20491** | **.01031** | **.02084** | **1.2241** | **.04322** | **2.9845** | **.00882** | **-.00283** | **.00921** | **.01522** | **.50769** |
| Stddev | .0192 | .00066 | .00278 | .00007 | .00017 | .0098 | .00003 | .0071 | .00037 | .00307 | .00092 | .00150 | .00127 |
| %RSD | .60356 | 6.2854 | 1.3548 | .64795 | .80207 | .80060 | .07842 | .23712 | 4.1669 | 108.54 | 10.025 | 9.8480 | .25100 |
| #1 | 3.1978 | .01096 | .20295 | .01036 | .02072 | 1.2311 | .04320 | 2.9795 | .00856 | -.00066 | .00856 | .01416 | .50679 |
| #2 | 3.1706 | .01003 | .20687 | .01026 | .02096 | 1.2172 | .04325 | 2.9895 | .00908 | -.00500 | .00987 | .01628 | .50859 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0865** | **.10546** | **.01035** | **.01509** | **.00994** | **.01601** | F **.04024** | **.00966** | **.02147** | F **.02008** |
| Stddev | .0027 | .00173 | .00003 | .00047 | .00050 | .00051 | .00408 | .00018 | .00024 | .00155 |
| %RSD | .25100 | 1.6405 | .30333 | 3.1327 | 5.0576 | 3.1979 | 10.142 | 1.8508 | 1.1406 | 7.7119 |
| #1 | 1.0845 | .10424 | .01033 | .01542 | .00959 | .01564 | .04313 | .00953 | .02164 | .01899 |
| #2 | 1.0884 | .10669 | .01037 | .01475 | .01030 | .01637 | .03736 | .00978 | .02129 | .02118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | .06000 | | | .01500 |
| Range | | | | | | | -30.000% | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8815.2** | **110600.** | **8944.8** |
| Stddev | 36.3 | 163. | 15.6 |
| %RSD | .41160 | .14709 | .17457 |
| #1 | 8840.9 | 110490. | 8955.8 |
| #2 | 8789.6 | 110720. | 8933.7 |

Sample Name: mb 280-187151/1-a  Acquired: 8/15/2013 20:31:50  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00177** | **-.00096** | **.00090** | **.00006** | **.00002** | **.00455** | **.00415** | **.00008** | **-.00011** |
| Stddev | .00037 | .00021 | .00141 | .00073 | .00017 | .00008 | .00166 | .00199 | .00012 | .00004 |
| %RSD | 148.91 | 11.607 | 147.32 | 80.844 | 286.38 | 355.07 | 36.468 | 48.104 | 154.95 | 39.208 |
| #1 | .00052 | .00192 | -.00196 | .00141 | .00018 | .00008 | .00572 | .00274 | -.00001 | -.00008 |
| #2 | -.00001 | .00163 | .00004 | .00038 | -.00006 | -.00003 | .00337 | .00556 | .00016 | -.00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00003** | **.00905** | **.08308** | **-.00360** | **.00266** | **.00020** | **-.00017** | **.12773** | **.00056** |
| Stddev | .00016 | .00003 | .00131 | .00874 | .00031 | .00131 | .00009 | .00027 | .00234 | .00003 |
| %RSD | 499.36 | 103.47 | 14.514 | 10.515 | 8.5823 | 49.226 | 46.274 | 155.13 | 1.8303 | 5.7809 |
| #1 | -.00015 | .00001 | .00998 | .08926 | -.00381 | .00173 | .00013 | .00002 | .12938 | .00058 |
| #2 | .00008 | .00005 | .00812 | .07690 | -.00338 | .00358 | .00027 | -.00036 | .12608 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **-.00097** | **-.00309** | **-.00159** | **-.00043** | **.00423** | **.00906** | **-.00057** | **-.00002** | **.00058** |
| Stddev | .00104 | .00059 | .00175 | .00056 | .00106 | .00138 | .00296 | .00020 | .00010 | .00039 |
| %RSD | 109.87 | 60.956 | 56.684 | 35.545 | 244.50 | 32.633 | 32.633 | 34.589 | 442.46 | 66.542 |
| #1 | .00021 | -.00055 | -.00433 | -.00199 | -.00118 | .00521 | .01115 | -.00070 | .00005 | .00086 |
| #2 | .00168 | -.00139 | -.00185 | -.00119 | .00032 | .00326 | .00697 | -.00043 | -.00009 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00019** | **.00004** | **-.02061** | **-.00047** | **.00150** | **.00277** |
| Stddev | .00006 | .00127 | .01994 | .00033 | .00019 | .00243 |
| %RSD | 30.874 | 3611.0 | 96.740 | 69.863 | 12.606 | 87.570 |
| #1 | .00023 | -.00086 | -.03471 | -.00070 | .00163 | .00106 |
| #2 | .00015 | .00093 | -.00651 | -.00024 | .00136 | .00449 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8835.2** | **111990.** | **8980.7** |
| Stddev | 71.9 | 233. | 32.2 |
| %RSD | .81358 | .20781 | .35821 |
| #1 | 8886.0 | 111820. | 9003.4 |
| #2 | 8784.4 | 112150. | 8957.9 |

Sample Name: lcs 280-187151/2-a Acquired: 8/15/2013 20:34:05 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05204** | **1.9745** | **1.0818** | **1.0455** | **2.1886** | **.05182** | **2.2570** | **52.261** | F **.11209** | **.51202** |
| Stddev | .00046 | .0005 | .0007 | .0024 | .0112 | .00041 | .0043 | .287 | .00027 | .00022 |
| %RSD | .88445 | .02348 | .06538 | .23416 | .51101 | .79528 | .18855 | .54927 | .24396 | .04214 |
| #1 | .05171 | 1.9748 | 1.0813 | 1.0473 | 2.1807 | .05153 | 2.2600 | 52.058 | .11229 | .51217 |
| #2 | .05236 | 1.9742 | 1.0823 | 1.0438 | 2.1965 | .05212 | 2.2540 | 52.464 | .11190 | .51186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | .11100 | |
| Low Limit | | | | | | | | | .08800 | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21294** | **.26435** | **1.0627** | **52.877** | **1.0154** | **51.184** | **.50368** | **1.0494** | **54.486** | **.52090** |
| Stddev | .00042 | .00032 | .0137 | .379 | .0084 | .074 | .00022 | .0010 | .382 | .00031 |
| %RSD | .19851 | .12232 | 1.2913 | .71675 | .83177 | .14526 | .04342 | .09034 | .70172 | .05991 |
| #1 | .21324 | .26458 | 1.0530 | 52.609 | 1.0094 | 51.236 | .50384 | 1.0501 | 54.215 | .52112 |
| #2 | .21264 | .26413 | 1.0724 | 53.145 | 1.0214 | 51.131 | .50353 | 1.0487 | 54.756 | .52068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.951** | **.52487** | **-.01185** | **.49105** | **2.1323** | **10.293** | **22.027** | **2.0855** | **1.0443** | **.99266** |
| Stddev | .008 | .00053 | .00336 | .00246 | .0050 | .094 | .202 | .0083 | .0039 | .00388 |
| %RSD | .07496 | .10134 | 28.398 | .50023 | .23599 | .91605 | .91605 | .39745 | .37420 | .39046 |
| #1 | 10.957 | .52524 | -.01422 | .49278 | 2.1359 | 10.226 | 21.884 | 2.0914 | 1.0416 | .99540 |
| #2 | 10.945 | .52449 | -.00947 | .48931 | 2.1288 | 10.360 | 22.170 | 2.0797 | 1.0471 | .98992 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98985** | **2.0441** | **2.2702** | **.52656** | **.51073** | **.51353** |
| Stddev | .00005 | .0060 | .0134 | .00060 | .00060 | .00491 |
| %RSD | .00482 | .29258 | .59120 | .11337 | .11672 | .95533 |
| #1 | .98988 | 2.0484 | 2.2607 | .52613 | .51031 | .51006 |
| #2 | .98982 | 2.0399 | 2.2797 | .52698 | .51115 | .51700 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8488.3** | **105880.** | **8854.3** |
| Stddev | 18.0 | 294. | 60.3 |
| %RSD | .21264 | .27780 | .68146 |
| #1 | 8501.1 | 106090. | 8896.9 |
| #2 | 8475.6 | 105670. | 8811.6 |

Sample Name: lcsd 280-187151/3-a  Acquired: 8/15/2013 20:36:12  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05165** | **1.9854** | **1.0846** | **1.0535** | **2.2028** | **.05221** | **2.2683** | **52.750** | F **.11251** | **.51455** |
| Stddev | .00077 | .0042 | .0022 | .0010 | .0081 | .00017 | .0033 | .301 | .00034 | .00055 |
| %RSD | 1.4919 | .20899 | .20394 | .09821 | .36692 | .33255 | .14682 | .57081 | .30117 | .10650 |
| #1 | .05111 | 1.9883 | 1.0862 | 1.0543 | 2.1971 | .05209 | 2.2706 | 52.537 | .11275 | .51494 |
| #2 | .05219 | 1.9824 | 1.0830 | 1.0528 | 2.2086 | .05234 | 2.2659 | 52.963 | .11227 | .51416 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | .11100 | |
| Low Limit | | | | | | | | | .08800 | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21433** | **.26445** | **1.0704** | **53.375** | **1.0252** | **51.104** | **.50639** | **1.0550** | **54.392** | **.52260** |
| Stddev | .00006 | .00020 | .0143 | .194 | .0053 | .036 | .00076 | .0016 | .322 | .00150 |
| %RSD | .02711 | .07688 | 1.3320 | .36259 | .51285 | .07004 | .15087 | .14948 | .59273 | .28773 |
| #1 | .21437 | .26430 | 1.0603 | 53.238 | 1.0215 | 51.129 | .50585 | 1.0561 | 54.620 | .52366 |
| #2 | .21429 | .26459 | 1.0805 | 53.512 | 1.0289 | 51.079 | .50693 | 1.0539 | 54.164 | .52154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.986** | **.52796** | **-.01423** | **.49943** | **2.1504** | **10.455** | **22.374** | **2.0961** | **1.0558** | **.99800** |
| Stddev | .015 | .00041 | .00124 | .00053 | .0014 | .093 | .198 | .0011 | .0039 | .00452 |
| %RSD | .13771 | .07775 | 8.6987 | .10525 | .06486 | .88605 | .88605 | .05116 | .36673 | .45264 |
| #1 | 10.997 | .52767 | -.01511 | .49906 | 2.1514 | 10.390 | 22.234 | 2.0954 | 1.0531 | .99481 |
| #2 | 10.976 | .52825 | -.01336 | .49980 | 2.1494 | 10.521 | 22.514 | 2.0969 | 1.0586 | 1.0012 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99583** | **2.0634** | **2.2509** | **.52775** | **.50988** | **.52548** |
| Stddev | .00188 | .0033 | .0095 | .00069 | .00089 | .00217 |
| %RSD | .18900 | .16044 | .42408 | .13154 | .17416 | .41361 |
| #1 | .99450 | 2.0611 | 2.2577 | .52825 | .50925 | .52394 |
| #2 | .99716 | 2.0658 | 2.2442 | .52726 | .51051 | .52702 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8547.2** | **106420.** | **8823.4** |
| Stddev | 18.0 | 157. | 54.7 |
| %RSD | .21072 | .14796 | .62003 |
| #1 | 8534.4 | 106310. | 8862.1 |
| #2 | 8559.9 | 106530. | 8784.7 |

Sample Name: 280-45253-b-7-a  Acquired: 8/15/2013 20:38:18  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00325** | **.00409** | **.30830** | **.11237** | **.00008** | **.00073** | **90.552** | **.00041** | **.00055** |
| Stddev | .00010 | .00004 | .00177 | .00087 | .00031 | .00007 | .00193 | .198 | .00007 | .00006 |
| %RSD | 16.427 | 1.0865 | 43.196 | .28147 | .27515 | 87.358 | 266.18 | .21844 | 17.777 | 10.446 |
| #1 | .00053 | .00322 | .00284 | .30769 | .11215 | .00014 | .00210 | 90.412 | .00047 | .00059 |
| #2 | .00067 | .00327 | .00534 | .30892 | .11259 | .00003 | -.00064 | 90.692 | .00036 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00402** | **.01875** | **8.6243** | **.03345** | **18.045** | **.28972** | **.00853** | **111.54** | **.00292** |
| Stddev | .00011 | .00023 | .00124 | .0201 | .00114 | .019 | .00064 | .00019 | .20 | .00001 |
| %RSD | 78.849 | 5.8437 | 6.6282 | .23281 | 3.4174 | .10680 | .21993 | 2.2824 | .17995 | .34656 |
| #1 | .00006 | .00385 | .01787 | 8.6101 | .03264 | 18.059 | .29018 | .00839 | 111.39 | .00291 |
| #2 | .00022 | .00418 | .01963 | 8.6385 | .03425 | 18.031 | .28927 | .00866 | 111.68 | .00293 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17580** | **-.00179** | **51.114** | **-.00252** | **.00274** | **7.5862** | **16.234** | **-.00114** | **.68375** | **.00052** |
| Stddev | .00073 | .00051 | .035 | .00233 | .00272 | .0281 | .060 | .00105 | .00078 | .00021 |
| %RSD | .41568 | 28.624 | .06852 | 92.446 | 99.268 | .37086 | .37086 | 92.264 | .11336 | 40.030 |
| #1 | .17528 | -.00143 | 51.090 | -.00087 | .00082 | 7.5663 | 16.192 | -.00188 | .68320 | .00066 |
| #2 | .17632 | -.00215 | 51.139 | -.00417 | .00466 | 7.6061 | 16.277 | -.00039 | .68429 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00206** | **-.00734** | **.00168** | **.00391** | **.00402** |
| Stddev | .00044 | .00089 | .01536 | .00016 | .00024 | .00132 |
| %RSD | 96.020 | 43.238 | 209.21 | 9.6820 | 6.1911 | 32.701 |
| #1 | .00015 | .00143 | .00352 | .00156 | .00409 | .00495 |
| #2 | .00077 | .00269 | -.01821 | .00179 | .00374 | .00309 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8526.7** | **106360.** | **8920.2** |
| Stddev | 38.7 | 212. | 73.2 |
| %RSD | .45443 | .19907 | .82019 |
| #1 | 8499.3 | 106510. | 8971.9 |
| #2 | 8554.1 | 106210. | 8868.5 |

Sample Name: 280-45281-b-2-a  Acquired: 8/15/2013 20:40:35  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00616** | **-.00027** | **.05358** | **.01759** | **-.00003** | **.00283** | **177.74** | **.00035** | **-.00001** |
| Stddev | .00055 | .00000 | .00005 | .00054 | .00008 | .00005 | .00022 | .15 | .00012 | .00020 |
| %RSD | 179.09 | .00967 | 17.170 | 1.0045 | .45355 | 144.41 | 7.8410 | .08690 | 34.047 | 1768.0 |
| #1 | .00070 | .00616 | -.00023 | .05396 | .01753 | -.00007 | .00298 | 177.63 | .00043 | .00013 |
| #2 | -.00008 | .00616 | -.00030 | .05320 | .01764 | .00000 | .00267 | 177.85 | .00026 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00104** | **.07565** | **6.7637** | **.01294** | **7.5950** | **.28558** | **.00231** | **186.59** | **.00034** |
| Stddev | .00002 | .00009 | .00132 | .0236 | .00037 | .0039 | .00062 | .00014 | .27 | .00016 |
| %RSD | 82.612 | 8.5242 | 1.7390 | .34877 | 2.8957 | .05150 | .21563 | 5.8550 | .14463 | 48.195 |
| #1 | -.00001 | .00110 | .07658 | 6.7471 | .01320 | 7.5977 | .28514 | .00241 | 186.78 | .00045 |
| #2 | -.00005 | .00098 | .07472 | 6.7804 | .01267 | 7.5922 | .28601 | .00221 | 186.40 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00694** | **-.00158** | W **191.45** | **-.00123** | **-.00209** | **10.853** | **23.225** | **-.00138** | **4.0106** | **-.00080** |
| Stddev | .00018 | .00008 | .33 | .00093 | .00158 | .006 | .013 | .00001 | .0822 | .00122 |
| %RSD | 2.6576 | 4.8411 | .17306 | 75.700 | 75.584 | .05664 | .05664 | .49881 | 2.0487 | 152.54 |
| #1 | .00707 | -.00163 | 191.22 | -.00057 | -.00321 | 10.848 | 23.216 | -.00138 | 3.9525 | -.00166 |
| #2 | .00681 | -.00152 | 191.69 | -.00188 | -.00097 | 10.857 | 23.234 | -.00137 | 4.0687 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 180.00 | | | | | | | |
| Low Limit | | | -.15000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00162** | **-.03814** | **.00015** | **.00793** | **.00284** |
| Stddev | .00026 | .00003 | .04250 | .00004 | .00005 | .00326 |
| %RSD | 53.862 | 2.1103 | 111.43 | 29.015 | .59992 | 114.94 |
| #1 | .00067 | .00164 | -.00809 | .00012 | .00790 | .00053 |
| #2 | .00030 | .00159 | -.06819 | .00018 | .00797 | .00515 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8317.0** | **104160.** | **8852.5** |
| Stddev | 9.1 | 1200. | 3.9 |
| %RSD | .10951 | 1.1525 | .04438 |
| #1 | 8323.4 | 105000. | 8849.7 |
| #2 | 8310.6 | 103310. | 8855.3 |

Sample Name: 280-45281-b-3-a  Acquired: 8/15/2013 20:42:59  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.00084** | **.00009** | **.04686** | **.02036** | **-.00006** | **.00227** | **161.32** | **.00022** | **-.00006** |
| Stddev | .00015 | .00024 | .00166 | .00077 | .00068 | .00003 | .00264 | .76 | .00021 | .00002 |
| %RSD | 15.043 | 28.423 | 1853.9 | 1.6343 | 3.3587 | 50.889 | 116.64 | .47342 | 96.190 | 29.074 |
| #1 | .00086 | .00067 | .00127 | .04631 | .01988 | -.00004 | .00414 | 160.78 | .00037 | -.00007 |
| #2 | .00107 | .00101 | -.00109 | .04740 | .02084 | -.00008 | .00040 | 161.86 | .00007 | -.00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.00073** | **2.3452** | **6.5057** | **.01794** | **11.871** | **.39388** | **.00104** | **101.44** | **.00032** |
| Stddev | .0001 | .00023 | .0211 | .0182 | .00449 | .123 | .00350 | .00011 | .67 | .00005 |
| %RSD | 7654.7 | 31.657 | .89886 | .28003 | 25.014 | 1.0354 | .88912 | 10.806 | .65772 | 14.414 |
| #1 | -.00007 | .00089 | 2.3303 | 6.5186 | .02111 | 11.957 | .39636 | .00096 | 100.96 | .00035 |
| #2 | .00007 | .00056 | 2.3601 | 6.4928 | .01477 | 11.784 | .39141 | .00112 | 101.91 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00502** | **-.00115** | **129.81** | **-.00458** | **-.00013** | **10.082** | **21.575** | **-.00070** | **3.3300** | **.00034** |
| Stddev | .00024 | .00034 | .02 | .00089 | .00327 | .081 | .174 | .00018 | .0195 | .00119 |
| %RSD | 4.6950 | 29.397 | .01359 | 19.387 | 2467.6 | .80780 | .80780 | 25.042 | .58589 | 346.98 |
| #1 | .00485 | -.00091 | 129.82 | -.00395 | -.00244 | 10.024 | 21.452 | -.00058 | 3.3162 | .00118 |
| #2 | .00518 | -.00138 | 129.79 | -.00520 | .00218 | 10.140 | 21.699 | -.00082 | 3.3438 | -.00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00112** | W **-.07823** | **-.00006** | **.00587** | **.00324** |
| Stddev | .00052 | .00071 | .02304 | .00034 | .00031 | .00096 |
| %RSD | 370.45 | 63.152 | 29.457 | 554.58 | 5.3696 | 29.670 |
| #1 | .00051 | .00062 | -.06194 | .00018 | .00564 | .00392 |
| #2 | -.00023 | .00162 | -.09453 | -.00030 | .00609 | .00256 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8443.1** | **104460.** | **8841.6** |
| Stddev | 16.3 | 1015. | 40.0 |
| %RSD | .19314 | .97189 | .45273 |
| #1 | 8454.7 | 103740. | 8813.3 |
| #2 | 8431.6 | 105180. | 8869.9 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 20:45:15 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **50.721** | **.00150** | **.00233** | **.00092** | **.00001** | W **1.0608** | **-.00039** | **.00009** | **.00028** | **-.00005** | **.00434** |
| Stddev | .00060 | .147 | .00290 | .00012 | .00030 | .00002 | .0085 | .00397 | .00002 | .00021 | .00004 | .00009 |
| %RSD | 65.338 | .28989 | 192.77 | 5.3318 | 32.783 | 164.49 | .80037 | 1008.1 | 19.357 | 77.523 | 82.709 | 2.0316 |
| #1 | .00135 | 50.617 | -.00055 | .00241 | .00071 | .00000 | 1.0668 | .00242 | .00010 | .00012 | -.00002 | .00441 |
| #2 | .00050 | 50.825 | .00355 | .00224 | .00114 | .00003 | 1.0548 | -.00320 | .00008 | .00043 | -.00008 | .00428 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.181** | **.20590** | **-.00062** | **-.00462** | **.00006** | **.00023** | **258.31** | **.00066** | **.00267** | **-.00069** | **5.0774** | **.00134** |
| Stddev | .046 | .02151 | .00260 | .00029 | .00007 | .00007 | .13 | .00009 | .00063 | .00009 | .0275 | .00126 |
| %RSD | .08990 | 10.447 | 419.02 | 6.3213 | 109.69 | 31.807 | .04893 | 12.928 | 23.558 | 12.525 | .54232 | 93.671 |
| #1 | 51.214 | .22111 | -.00246 | -.00483 | .00001 | .00018 | 258.22 | .00072 | .00311 | -.00075 | 5.0968 | .00045 |
| #2 | 51.148 | .19069 | .00122 | -.00441 | .00012 | .00028 | 258.40 | .00060 | .00222 | -.00063 | 5.0579 | .00223 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00670** | **.00499** | **.01068** | **-.00063** | **.00066** | **4.8240** | **-.00102** | **.00080** | W **10.528** | **.00106** | **-.00027** | **.03895** |
| Stddev | .00098 | .00755 | .01616 | .00033 | .00017 | .0039 | .00002 | .00152 | .007 | .00024 | .00008 | .00065 |
| %RSD | 14.563 | 151.31 | 151.31 | 53.126 | 25.226 | .08087 | 2.3698 | 189.59 | .06689 | 22.600 | 28.449 | 1.6684 |
| #1 | -.00601 | -.00035 | -.00075 | -.00086 | .00078 | 4.8268 | -.00103 | -.00027 | 10.533 | .00123 | -.00021 | .03941 |
| #2 | -.00739 | .01033 | .02211 | -.00039 | .00054 | 4.8213 | -.00100 | .00188 | 10.523 | .00089 | -.00032 | .03849 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8477.9** | **105160.** | **8781.2** |
| Stddev | 1.5 | 311. | 81.8 |
| %RSD | .01801 | .29605 | .93155 |
| #1 | 8476.8 | 104940. | 8839.1 |
| #2 | 8479.0 | 105380. | 8723.4 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 20:47:36 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50228** | **.50759** | **1.0220** | **.52105** | **.51784** | **.50164** | **.00219** | **5.0776** | **.51337** | **.50739** | **.51184** | **.50337** | **2.5702** |
| Stddev | .00004 | .00044 | .0007 | .00094 | .00048 | .00011 | .00470 | .0146 | .00161 | .00009 | .00131 | .00068 | .0025 |
| %RSD | .00723 | .08608 | .06915 | .18114 | .09249 | .02125 | 214.54 | .28785 | .31276 | .01865 | .25615 | .13596 | .09585 |
| #1 | .50231 | .50790 | 1.0225 | .52038 | .51818 | .50157 | -.00113 | 5.0673 | .51223 | .50746 | .51091 | .50385 | 2.5720 |
| #2 | .50225 | .50728 | 1.0215 | .52172 | .51750 | .50172 | .00551 | 5.0880 | .51450 | .50732 | .51277 | .50288 | 2.5685 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.356** | **.97245** | **19.650** | **.49102** | **.51789** | **5.2610** | **.51429** | **1.0356** | **1.0290** | **.00777** | **1.0218** | **1.0345** | **5.0556** |
| Stddev | .027 | .00404 | .037 | .00011 | .00118 | .0041 | .00075 | .0030 | .0007 | .00143 | .0008 | .0012 | .0588 |
| %RSD | .05387 | .41549 | .19085 | .02217 | .22871 | .07855 | .14559 | .29150 | .06762 | 18.366 | .07542 | .11624 | 1.1639 |
| #1 | 50.337 | .97530 | 19.624 | .49094 | .51705 | 5.2581 | .51376 | 1.0335 | 1.0286 | .00878 | 1.0212 | 1.0336 | 5.0140 |
| #2 | 50.375 | .96959 | 19.677 | .49109 | .51873 | 5.2639 | .51482 | 1.0377 | 1.0295 | .00676 | 1.0223 | 1.0353 | 5.0972 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.819** | **1.0431** | **.50055** | **-.00396** | **.49091** | **1.0374** | **.00403** | **.50181** | **.49541** | **.50378** |
| Stddev | .126 | .0010 | .00001 | .00125 | .00060 | .0027 | .03249 | .00007 | .00089 | .00376 |
| %RSD | 1.1639 | .09989 | .00161 | 31.491 | .12251 | .26518 | 807.07 | .01456 | .17982 | .74625 |
| #1 | 10.730 | 1.0424 | .50056 | -.00308 | .49133 | 1.0394 | -.01895 | .50175 | .49478 | .50112 |
| #2 | 10.908 | 1.0439 | .50055 | -.00484 | .49048 | 1.0355 | .02700 | .50186 | .49604 | .50644 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8684.4** | **108470.** | **8821.4** |
| Stddev | .1 | 325. | 73.1 |
| %RSD | .00068 | .29996 | .82881 |
| #1 | 8684.4 | 108700. | 8873.1 |
| #2 | 8684.5 | 108240. | 8769.7 |

Sample Name: CCB  Acquired: 8/15/2013 20:49:43  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00021** | **.00242** | **-.00156** | **.00126** | **.00041** | **.00001** | **.00694** | **-.00004** | **.00011** | **.00013** | **-.00002** | **.00011** |
| Stddev | .00052 | .00011 | .00065 | .00056 | .00051 | .00005 | .00046 | .00078 | .00006 | .00003 | .00011 | .00006 |
| %RSD | 250.12 | 4.7337 | 41.864 | 44.077 | 124.66 | 984.65 | 6.6616 | 2007.2 | 55.148 | 25.343 | 475.98 | 55.242 |
| #1 | .00016 | .00251 | -.00202 | .00165 | .00005 | .00004 | .00662 | .00052 | .00007 | .00015 | -.00010 | .00007 |
| #2 | -.00058 | .00234 | -.00110 | .00087 | .00077 | -.00003 | .00727 | -.00059 | .00015 | .00010 | .00005 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **.12693** | W **.00297** | **.00291** | **.00003** | **.00062** | W **.16372** | **.00009** | **-.00048** | **-.00124** | **.00485** | **.00294** |
| Stddev | .00163 | .00951 | .00010 | .00116 | .00009 | .00024 | .01898 | .00007 | .00077 | .00044 | .00336 | .00354 |
| %RSD | 1573.8 | 7.4885 | 3.3321 | 39.693 | 327.00 | 39.496 | 11.595 | 79.616 | 158.78 | 35.345 | 69.185 | 120.22 |
| #1 | -.00125 | .13365 | .00290 | .00209 | .00009 | .00044 | .17714 | .00014 | -.00103 | -.00093 | .00248 | .00044 |
| #2 | .00105 | .12021 | .00304 | .00373 | -.00004 | .00079 | .15030 | .00004 | .00006 | -.00155 | .00723 | .00544 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .00261 | | | | .09160 | | | | | |
| Low Limit | | | -.00261 | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00199** | **.01659** | **.03550** | **-.00094** | **.00002** | **-.00007** | **.00053** | **.00100** | **-.00518** | **-.00026** | **.00126** | W **.00315** |
| Stddev | .00299 | .00034 | .00074 | .00010 | .00007 | .00040 | .00007 | .00124 | .04049 | .00009 | .00006 | .00079 |
| %RSD | 150.25 | 2.0757 | 2.0757 | 10.306 | 345.54 | 543.80 | 13.898 | 123.92 | 781.30 | 35.216 | 4.5827 | 25.129 |
| #1 | .00410 | .01683 | .03602 | -.00087 | -.00003 | -.00035 | .00058 | .00188 | -.03381 | -.00032 | .00122 | .00259 |
| #2 | -.00012 | .01635 | .03498 | -.00101 | .00007 | .00021 | .00048 | .00012 | .02345 | -.00019 | .00130 | .00371 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8740.7** | **109430.** | **8732.8** |
| Stddev | 2.1 | 490. | 31.8 |
| %RSD | .02374 | .44763 | .36449 |
| #1 | 8742.1 | 109780. | 8755.3 |
| #2 | 8739.2 | 109080. | 8710.3 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 20:51:57 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01049** | **.10431** | **.01429** | **.09835** | **.01069** | **.00099** | **.11551** | **.20949** | **.00518** | **.01061** | **.01069** | **.01566** | **.10191** |
| Stddev | .00031 | .00007 | .00099 | .00136 | .00011 | .00009 | .00111 | .00024 | .00022 | .00012 | .00002 | .00026 | .00244 |
| %RSD | 3.0022 | .06626 | 6.9478 | 1.3853 | 1.0065 | 9.2627 | .95985 | .11488 | 4.2809 | 1.1001 | .14697 | 1.6887 | 2.3899 |
| #1 | .01027 | .10426 | .01499 | .09932 | .01062 | .00093 | .11472 | .20932 | .00502 | .01053 | .01070 | .01584 | .10019 |
| #2 | .01071 | .10436 | .01358 | .09739 | .01077 | .00106 | .11629 | .20966 | .00534 | .01069 | .01068 | .01547 | .10363 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1507** | **.01129** | **.20580** | **.01010** | **.02084** | **1.1748** | **.04271** | **2.9434** | **.00825** | **.00253** | F **.00696** | **.01572** | **.51742** |
| Stddev | .0787 | .00506 | .00149 | .00004 | .00003 | .0199 | .00020 | .0094 | .00039 | .00022 | .00106 | .00004 | .02224 |
| %RSD | 2.4982 | 44.831 | .72508 | .35703 | .16156 | 1.6920 | .46945 | .32027 | 4.7117 | 8.8682 | 15.182 | .28095 | 4.2985 |
| #1 | 3.0950 | .01487 | .20475 | .01008 | .02082 | 1.1607 | .04286 | 2.9500 | .00853 | .00237 | .00621 | .01576 | .50170 |
| #2 | 3.2063 | .00771 | .20686 | .01013 | .02086 | 1.1888 | .04257 | 2.9367 | .00798 | .00269 | .00771 | .01569 | .53315 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1073** | **.10488** | **.01016** | **.01460** | **.00965** | **.01582** | F **.01024** | **.00986** | **.02117** | **.01901** |
| Stddev | .0476 | .00058 | .00025 | .00162 | .00012 | .00017 | .00697 | .00005 | .00016 | .00088 |
| %RSD | 4.2985 | .55040 | 2.5019 | 11.102 | 1.2121 | 1.0492 | 68.076 | .47597 | .76874 | 4.6354 |
| #1 | 1.0736 | .10529 | .00998 | .01346 | .00973 | .01594 | .00531 | .00990 | .02106 | .01839 |
| #2 | 1.1409 | .10447 | .01034 | .01575 | .00957 | .01570 | .01517 | .00983 | .02129 | .01963 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8704.4** | **109370.** | **8710.8** |
| Stddev | 37.9 | 132. | 73.4 |
| %RSD | .43499 | .12098 | .84298 |
| #1 | 8677.7 | 109280. | 8762.7 |
| #2 | 8731.2 | 109470. | 8658.9 |

Sample Name: 280-45443-d-1-a  Acquired: 8/15/2013 20:54:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00138** | **.00034** | **.05257** | **.01945** | **.00002** | **.00197** | **256.04** | **.00041** | **-.00006** |
| Stddev | .00045 | .00013 | .00261 | .00010 | .00038 | .00007 | .00713 | 5.40 | .00007 | .00012 |
| %RSD | 4896.0 | 9.4788 | 762.71 | .18338 | 1.9523 | 386.66 | 361.92 | 2.1102 | 17.334 | 196.19 |
| #1 | -.00031 | .00147 | -.00150 | .05250 | .01972 | -.00003 | -.00307 | 252.22 | .00046 | -.00014 |
| #2 | .00033 | .00129 | .00218 | .05264 | .01918 | .00007 | .00701 | 259.86 | .00036 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00156** | **10.747** | **8.4216** | **.03367** | **27.475** | **.41407** | **.00110** | **160.31** | **-.00008** |
| Stddev | .00004 | .00007 | .010 | .0260 | .00076 | .004 | .00020 | .00002 | .11 | .00004 |
| %RSD | 53.655 | 4.5758 | .09686 | .30918 | 2.2686 | .01405 | .04751 | 1.9745 | .07036 | 48.596 |
| #1 | .00004 | .00161 | 10.740 | 8.4032 | .03313 | 27.478 | .41421 | .00111 | 160.23 | -.00005 |
| #2 | .00010 | .00151 | 10.754 | 8.4401 | .03421 | 27.473 | .41393 | .00108 | 160.39 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00450** | **-.00158** | F **249.49** | **-.00181** | **-.00058** | **11.215** | **24.000** | **-.00108** | **4.3495** | **-.00179** |
| Stddev | .00014 | .00180 | .12 | .00117 | .00027 | .053 | .114 | .00094 | .0425 | .00167 |
| %RSD | 3.0751 | 114.11 | .04657 | 64.584 | 45.850 | .47653 | .47653 | 86.915 | .97779 | 92.876 |
| #1 | .00440 | -.00285 | 249.41 | -.00264 | -.00039 | 11.253 | 24.081 | -.00042 | 4.3195 | -.00297 |
| #2 | .00459 | -.00031 | 249.57 | -.00099 | -.00077 | 11.177 | 23.919 | -.00174 | 4.3796 | -.00062 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00126** | **-.01718** | **.00008** | **.00325** | **.00402** |
| Stddev | .00037 | .00171 | .01171 | .00050 | .00042 | .00007 |
| %RSD | 214.59 | 135.32 | 68.138 | 643.29 | 13.001 | 1.6883 |
| #1 | .00043 | .00005 | -.00890 | .00043 | .00355 | .00398 |
| #2 | -.00009 | .00247 | -.02546 | -.00027 | .00295 | .00407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8307.9** | **103610.** | **8811.4** |
| Stddev | 10.8 | 449. | 50.8 |
| %RSD | .12944 | .43379 | .57675 |
| #1 | 8300.3 | 103290. | 8775.5 |
| #2 | 8315.5 | 103930. | 8847.4 |

Sample Name: 280-45443-d-2-a  Acquired: 8/15/2013 20:56:42  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00154** | **-.00004** | **.04357** | **.03726** | **-.00002** | **.00279** | **91.119** | **.00026** | **.00016** |
| Stddev | .00047 | .00010 | .00220 | .00020 | .00004 | .00000 | .00065 | .335 | .00004 | .00002 |
| %RSD | 141.77 | 6.8012 | 5918.7 | .46120 | .10886 | 19.163 | 23.420 | .36785 | 16.398 | 14.693 |
| #1 | .00066 | .00162 | -.00159 | .04372 | .03723 | -.00003 | .00325 | 90.882 | .00029 | .00017 |
| #2 | .00000 | .00147 | .00152 | .04343 | .03729 | -.00002 | .00232 | 91.356 | .00023 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00074** | **1.7567** | **6.3208** | **.01716** | **7.6324** | **.21364** | **.00183** | **108.01** | **.00040** |
| Stddev | .00004 | .00028 | .0116 | .0394 | .00081 | .0022 | .00054 | .00008 | .95 | .00004 |
| %RSD | 27.753 | 38.084 | .65836 | .62390 | 4.7117 | .02908 | .25098 | 4.2282 | .87632 | 8.8772 |
| #1 | .00016 | .00094 | 1.7485 | 6.3487 | .01659 | 7.6339 | .21402 | .00177 | 107.35 | .00038 |
| #2 | .00010 | .00054 | 1.7648 | 6.2930 | .01774 | 7.6308 | .21326 | .00188 | 108.68 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01188** | **-.00148** | **72.571** | **-.00256** | **-.00196** | **8.9202** | **19.089** | **-.00120** | **1.7668** | **.00010** |
| Stddev | .00176 | .00063 | .009 | .00286 | .00160 | .0394 | .084 | .00055 | .0041 | .00041 |
| %RSD | 14.853 | 42.626 | .01306 | 112.13 | 81.978 | .44197 | .44197 | 46.115 | .23398 | 431.21 |
| #1 | .01063 | -.00193 | 72.578 | -.00458 | -.00082 | 8.8923 | 19.030 | -.00081 | 1.7639 | -.00020 |
| #2 | .01313 | -.00104 | 72.564 | -.00053 | -.00309 | 8.9481 | 19.149 | -.00159 | 1.7697 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **.00030** | **-.02375** | **.00011** | **.00361** | **.00533** |
| Stddev | .00058 | .00027 | .00110 | .00038 | .00004 | .00200 |
| %RSD | 210.50 | 90.291 | 4.6443 | 344.14 | 1.0739 | 37.429 |
| #1 | -.00013 | .00011 | -.02297 | .00038 | .00358 | .00392 |
| #2 | .00068 | .00049 | -.02453 | -.00016 | .00363 | .00674 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8513.3** | **106190.** | **8832.3** |
| Stddev | 16.6 | 383. | 9.1 |
| %RSD | .19541 | .36048 | .10285 |
| #1 | 8525.0 | 106460. | 8838.8 |
| #2 | 8501.5 | 105920. | 8825.9 |

Sample Name: 280-45443-d-3-a  Acquired: 8/15/2013 20:58:58  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00014** | **.00261** | **-.00147** | **.05365** | **.02484** | **.00004** | **.00312** | **95.237** | **.00020** | **.00005** |
| Stddev | .00004 | .00002 | .00091 | .00038 | .00058 | .00003 | .00215 | .508 | .00025 | .00019 |
| %RSD | 31.954 | .81526 | 62.081 | .70384 | 2.3540 | 78.403 | 69.082 | .53307 | 129.51 | 354.14 |
| #1 | .00011 | .00260 | -.00082 | .05391 | .02442 | .00006 | .00159 | 94.878 | .00038 | .00019 |
| #2 | .00017 | .00263 | -.00211 | .05338 | .02525 | .00002 | .00464 | 95.596 | .00002 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00049** | **.05682** | **4.9171** | **.00702** | **5.5920** | **.20008** | **.00072** | **107.79** | **.00043** |
| Stddev | .00008 | .00025 | .00335 | .1010 | .00013 | .0048 | .00013 | .00012 | .02 | .00005 |
| %RSD | 53.836 | 51.005 | 5.8867 | 2.0548 | 1.9140 | .08545 | .06250 | 17.076 | .02285 | 12.216 |
| #1 | .00009 | .00067 | .05446 | 4.8456 | .00693 | 5.5886 | .20000 | .00063 | 107.78 | .00047 |
| #2 | .00021 | .00031 | .05919 | 4.9885 | .00712 | 5.5953 | .20017 | .00081 | 107.81 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00424** | **-.00180** | **107.90** | **-.00357** | **-.00073** | **7.0218** | **15.027** | **-.00133** | **1.8444** | **-.00088** |
| Stddev | .00092 | .00062 | .08 | .00210 | .00401 | .0460 | .098 | .00001 | .0093 | .00196 |
| %RSD | 21.628 | 34.555 | .07833 | 58.678 | 549.09 | .65465 | .65465 | .92676 | .50328 | 223.00 |
| #1 | .00359 | -.00136 | 107.96 | -.00209 | .00211 | 6.9893 | 14.957 | -.00132 | 1.8379 | -.00226 |
| #2 | .00489 | -.00225 | 107.84 | -.00505 | -.00357 | 7.0543 | 15.096 | -.00134 | 1.8510 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00175** | **-.03881** | **-.00022** | **.00246** | **.00287** |
| Stddev | .00037 | .00119 | .00608 | .00040 | .00010 | .00105 |
| %RSD | 80.480 | 67.770 | 15.661 | 181.65 | 4.0518 | 36.613 |
| #1 | .00072 | .00259 | -.03451 | .00006 | .00239 | .00213 |
| #2 | .00020 | .00091 | -.04311 | -.00050 | .00253 | .00362 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8514.7** | **106480.** | **8908.2** |
| Stddev | 12.2 | 486. | 43.3 |
| %RSD | .14339 | .45674 | .48560 |
| #1 | 8523.3 | 106820. | 8938.8 |
| #2 | 8506.0 | 106140. | 8877.6 |

Sample Name: 280-45443-d-4-a  Acquired: 8/15/2013 21:01:16  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00040** | **.00027** | **-.00029** | **.05231** | **.01904** | **.00004** | **.00305** | **263.19** | **.00049** | **.00010** |
| Stddev | .00017 | .00019 | .00032 | .00013 | .00006 | .00004 | .00044 | .32 | .00015 | .00003 |
| %RSD | 41.576 | 70.428 | 110.57 | .24383 | .29403 | 103.69 | 14.478 | .12347 | 30.784 | 28.387 |
| #1 | .00052 | .00014 | -.00052 | .05222 | .01908 | .00006 | .00274 | 262.96 | .00059 | .00008 |
| #2 | .00028 | .00040 | -.00006 | .05240 | .01900 | .00001 | .00336 | 263.42 | .00038 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00114** | **11.085** | **8.5017** | **.03383** | **27.883** | **.43050** | **.00068** | **160.52** | **-.00001** |
| Stddev | .00006 | .00027 | .028 | .0909 | .00134 | .000 | .00026 | .00012 | .17 | .00003 |
| %RSD | 60.546 | 24.076 | .25498 | 1.0689 | 3.9571 | .00100 | .05958 | 18.414 | .10669 | 241.86 |
| #1 | .00015 | .00094 | 11.105 | 8.5660 | .03478 | 27.883 | .43068 | .00059 | 160.64 | .00001 |
| #2 | .00006 | .00133 | 11.065 | 8.4375 | .03289 | 27.882 | .43032 | .00077 | 160.40 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00353** | **-.00180** | F **253.48** | **-.00341** | **-.00135** | **11.361** | **24.313** | **-.00127** | **4.5322** | **-.00242** |
| Stddev | .00171 | .00058 | .47 | .00124 | .00013 | .088 | .189 | .00020 | .1180 | .00082 |
| %RSD | 48.458 | 32.278 | .18623 | 36.304 | 9.3661 | .77661 | .77661 | 15.851 | 2.6037 | 33.939 |
| #1 | .00474 | -.00139 | 253.81 | -.00254 | -.00126 | 11.299 | 24.179 | -.00113 | 4.4488 | -.00300 |
| #2 | .00232 | -.00221 | 253.14 | -.00429 | -.00144 | 11.424 | 24.446 | -.00141 | 4.6157 | -.00184 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00068** | **-.01717** | **.00022** | **.00303** | **.00213** |
| Stddev | .00005 | .00031 | .02136 | .00019 | .00023 | .00261 |
| %RSD | 249.86 | 45.214 | 124.41 | 88.105 | 7.6833 | 122.63 |
| #1 | .00006 | .00046 | -.03227 | .00008 | .00319 | .00028 |
| #2 | -.00002 | .00089 | -.00206 | .00035 | .00287 | .00397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8196.1** | **103420.** | **8735.0** |
| Stddev | 1.6 | 125. | 9.6 |
| %RSD | .02002 | .12129 | .10941 |
| #1 | 8197.2 | 103330. | 8728.2 |
| #2 | 8194.9 | 103510. | 8741.7 |

Sample Name: 280-45443-d-4-aSD@5 Acquired: 8/15/2013 21:03:45 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00081** | **.03408** | **-.00011** | **.01120** | **.00373** | **.00004** | **.00380** | **52.880** | **.00012** | **.00000** |
| Stddev | .00025 | .00003 | .00001 | .00072 | .00004 | .00004 | .00188 | .132 | .00006 | .00016 |
| %RSD | 30.992 | .07369 | 7.5179 | 6.4617 | 1.1518 | 111.78 | 49.471 | .24912 | 47.485 | 3365.2 |
| #1 | .00063 | .03406 | -.00010 | .01069 | .00370 | .00001 | .00512 | 52.973 | .00017 | -.00011 |
| #2 | .00099 | .03409 | -.00012 | .01171 | .00376 | .00007 | .00247 | 52.786 | .00008 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00022** | **2.2560** | **1.7223** | **.00706** | **5.6864** | **.08741** | **.00000** | **32.804** | **-.00026** |
| Stddev | .00017 | .00031 | .0028 | .0172 | .00081 | .0043 | .00002 | .0002 | .402 | .00008 |
| %RSD | 187.95 | 143.55 | .12503 | .99710 | 11.542 | .07595 | .02234 | 4971.8 | 1.2244 | 30.672 |
| #1 | -.00003 | .00044 | 2.2540 | 1.7101 | .00763 | 5.6834 | .08743 | .00014 | 33.088 | -.00032 |
| #2 | .00021 | .00000 | 2.2580 | 1.7344 | .00648 | 5.6895 | .08740 | -.00015 | 32.520 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00152** | **-.00069** | **48.919** | **-.00167** | **.00044** | **2.2273** | **4.7663** | **-.00135** | **.90829** | **.00047** |
| Stddev | .00015 | .00017 | .037 | .00034 | .00303 | .0073 | .0156 | .00009 | .00073 | .00035 |
| %RSD | 9.8241 | 24.921 | .07511 | 20.487 | 693.93 | .32662 | .32662 | 6.3922 | .08019 | 74.624 |
| #1 | .00142 | -.00081 | 48.945 | -.00191 | -.00171 | 2.2221 | 4.7553 | -.00141 | .90881 | .00072 |
| #2 | .00163 | -.00057 | 48.893 | -.00142 | .00258 | 2.2324 | 4.7774 | -.00129 | .90778 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00052** | **-.01185** | **-.00053** | **.00271** | **.00168** |
| Stddev | .00029 | .00074 | .03375 | .00030 | .00003 | .00204 |
| %RSD | 365.41 | 141.63 | 284.91 | 57.681 | 1.1465 | 121.55 |
| #1 | -.00013 | .00000 | .01202 | -.00074 | .00273 | .00024 |
| #2 | .00029 | .00104 | -.03572 | -.00031 | .00268 | .00312 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8491.5** | **106340.** | **8699.2** |
| Stddev | 8.7 | 136. | 20.1 |
| %RSD | .10252 | .12814 | .23069 |
| #1 | 8497.7 | 106440. | 8685.0 |
| #2 | 8485.4 | 106250. | 8713.4 |

Sample Name: 280-45443-d-4-b ms  Acquired: 8/15/2013 21:06:02  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .05184 | 1.9086 | 1.1100 | 1.0956 | 2.2159 | .05152 | F 2.2500 | 308.97 | .11401 | .50346 |
| Stddev | .00028 | .0017 | .0036 | .0019 | .0120 | .00001 | .0062 | 4.36 | .00008 | .00026 |
| %RSD | .53110 | .08911 | .32183 | .17531 | .54312 | .01397 | .27425 | 1.4095 | .07432 | .05090 |
| #1 | .05164 | 1.9098 | 1.1075 | 1.0942 | 2.2244 | .05153 | 2.2457 | 312.05 | .11395 | .50328 |
| #2 | .05203 | 1.9074 | 1.1125 | 1.0970 | 2.2074 | .05152 | 2.2544 | 305.89 | .11407 | .50364 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .21207 | .26234 | 12.016 | 62.260 | 1.0557 | 77.276 | .92304 | 1.0573 | 211.60 | .51027 |
| Stddev | .00021 | .00097 | .063 | .261 | .0019 | .148 | .00098 | .0006 | .65 | .00064 |
| %RSD | .10021 | .37009 | .52090 | .41938 | .18290 | .19123 | .10575 | .05616 | .30732 | .12596 |
| #1 | .21192 | .26165 | 12.060 | 62.445 | 1.0570 | 77.381 | .92373 | 1.0568 | 212.06 | .50981 |
| #2 | .21222 | .26302 | 11.972 | 62.076 | 1.0543 | 77.172 | .92235 | 1.0577 | 211.14 | .51072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 11.319 | .50593 | F 252.49 | .50320 | 2.1549 | 21.580 | 46.182 | W 2.0480 | W 5.4494 | .98751 |
| Stddev | .009 | .00071 | .25 | .00245 | .0032 | .113 | .241 | .0022 | .0261 | .00860 |
| %RSD | .07877 | .14012 | .09710 | .48758 | .14959 | .52147 | .52147 | .10926 | .47882 | .87049 |
| #1 | 11.312 | .50543 | 252.31 | .50147 | 2.1526 | 21.660 | 46.353 | 2.0496 | 5.4679 | .99359 |
| #2 | 11.325 | .50643 | 252.66 | .50494 | 2.1572 | 21.501 | 46.012 | 2.0464 | 5.4310 | .98143 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | 2.0000 | 5.0000 | |
| Low Limit | -1.0000 | | -.20000 | | | | | -.05000 | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .98996 | 1.9112 | 2.2243 | .52798 | .50089 | .51412 |
| Stddev | .00031 | .0003 | .0140 | .00008 | .00300 | .00277 |
| %RSD | .03110 | .01527 | .62958 | .01571 | .59796 | .53959 |
| #1 | .98974 | 1.9110 | 2.2342 | .52804 | .50301 | .51216 |
| #2 | .99017 | 1.9114 | 2.2144 | .52792 | .49877 | .51609 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8006.9 | 100580. | 8625.7 |
| Stddev | 25.2 | 406. | 117.1 |
| %RSD | .31485 | .40402 | 1.3576 |
| #1 | 7989.0 | 100290. | 8542.8 |
| #2 | 8024.7 | 100870. | 8708.5 |

Sample Name: 280-45443-d-4-c msd  Acquired: 8/15/2013 21:08:22  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .05274 | 1.9283 | 1.1308 | 1.1132 | 2.2318 | .05194 | F 2.2868 | 308.36 | .11569 | .50960 |
| Stddev | .00026 | .0002 | .0012 | .0038 | .0123 | .00015 | .0078 | 4.16 | .00022 | .00090 |
| %RSD | .49834 | .01173 | .10945 | .34138 | .54918 | .29220 | .33915 | 1.3502 | .18936 | .17693 |
| #1 | .05292 | 1.9281 | 1.1299 | 1.1105 | 2.2231 | .05183 | 2.2814 | 305.41 | .11554 | .50896 |
| #2 | .05255 | 1.9285 | 1.1316 | 1.1159 | 2.2405 | .05204 | 2.2923 | 311.30 | .11585 | .51024 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .21406 | .26680 | 12.112 | 62.974 | 1.0658 | 77.865 | .93117 | 1.0688 | 213.93 | .51679 |
| Stddev | .00004 | .00008 | .002 | .302 | .0102 | .174 | .00139 | .0012 | 1.47 | .00141 |
| %RSD | .01824 | .02915 | .01634 | .47979 | .96115 | .22369 | .14955 | .11427 | .68923 | .27315 |
| #1 | .21409 | .26685 | 12.111 | 62.761 | 1.0586 | 77.989 | .93215 | 1.0680 | 212.88 | .51580 |
| #2 | .21403 | .26674 | 12.114 | 63.188 | 1.0731 | 77.742 | .93018 | 1.0697 | 214.97 | .51779 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W 11.471 | .51147 | F 258.15 | .51238 | 2.2008 | 21.704 | 46.447 | W 2.0731 | W 5.4899 | .99415 |
| Stddev | .021 | .00038 | .76 | .00049 | .0023 | .084 | .180 | .0014 | .0466 | .00371 |
| %RSD | .18307 | .07382 | .29280 | .09565 | .10377 | .38793 | .38793 | .06648 | .84943 | .37291 |
| #1 | 11.456 | .51120 | 257.62 | .51203 | 2.1992 | 21.645 | 46.320 | 2.0721 | 5.4569 | .99677 |
| #2 | 11.486 | .51174 | 258.69 | .51272 | 2.2024 | 21.764 | 46.575 | 2.0741 | 5.5229 | .99153 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Warn | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | 2.0000 | 5.0000 | |
| Low Limit | -1.0000 | | -.20000 | | | | | -.05000 | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .99916 | 1.9354 | 2.2339 | .53434 | .51476 | .52395 |
| Stddev | .00019 | .0028 | .0108 | .00111 | .00088 | .00104 |
| %RSD | .01868 | .14629 | .48318 | .20749 | .17054 | .19898 |
| #1 | .99929 | 1.9334 | 2.2263 | .53512 | .51414 | .52469 |
| #2 | .99903 | 1.9374 | 2.2415 | .53356 | .51538 | .52322 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 8147.8 | 101760. | 8798.1 |
| Stddev | 23.9 | 37. | 26.1 |
| %RSD | .29279 | .03661 | .29621 |
| #1 | 8131.0 | 101780. | 8779.7 |
| #2 | 8164.7 | 101730. | 8816.5 |

Sample Name: 280-45442-a-12-a  Acquired: 8/15/2013 21:10:44  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187151 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00844** | **.00109** | **.09975** | **.01883** | **-.00004** | **.00267** | **141.01** | **.00048** | **.00016** |
| Stddev | .00072 | .00009 | .00006 | .00045 | .00010 | .00009 | .00417 | .01 | .00044 | .00013 |
| %RSD | 141.40 | 1.1108 | 5.5091 | .44952 | .52079 | 206.15 | 156.10 | .00380 | 92.901 | 80.297 |
| #1 | .00000 | .00837 | .00105 | .10007 | .01890 | .00002 | -.00028 | 141.01 | .00079 | .00025 |
| #2 | .00102 | .00850 | .00114 | .09944 | .01876 | -.00011 | .00562 | 141.00 | .00016 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00093** | **.01536** | **.82693** | **.03890** | **23.750** | **.00102** | **.00199** | **115.56** | **.00035** |
| Stddev | .00012 | .00029 | .00113 | .07225 | .00151 | .086 | .00006 | .00015 | .42 | .00043 |
| %RSD | 22.193 | 31.046 | 7.3291 | 8.7370 | 3.8785 | .36040 | 5.7973 | 7.7170 | .36357 | 123.11 |
| #1 | .00044 | .00113 | .01457 | .87802 | .03784 | 23.811 | .00106 | .00188 | 115.26 | .00004 |
| #2 | .00060 | .00072 | .01616 | .77584 | .03997 | 23.690 | .00097 | .00210 | 115.86 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01811** | **-.00176** | **29.432** | **-.00298** | **.00468** | **13.556** | **29.010** | **-.00037** | **.63128** | **-.00105** |
| Stddev | .00248 | .00047 | .007 | .00033 | .00049 | .019 | .040 | .00032 | .00171 | .00051 |
| %RSD | 13.686 | 26.635 | .02389 | 11.011 | 10.439 | .13734 | .13734 | 84.385 | .27030 | 47.999 |
| #1 | .01636 | -.00209 | 29.437 | -.00322 | .00502 | 13.543 | 28.982 | -.00015 | .63008 | -.00070 |
| #2 | .01986 | -.00143 | 29.427 | -.00275 | .00433 | 13.569 | 29.039 | -.00060 | .63249 | -.00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **.00090** | **.00042** | **.00292** | **.00280** | **.00507** |
| Stddev | .00024 | .00023 | .00028 | .00034 | .00004 | .00032 |
| %RSD | 23.558 | 25.450 | 65.664 | 11.742 | 1.5632 | 6.3943 |
| #1 | .00085 | .00073 | .00023 | .00268 | .00283 | .00530 |
| #2 | .00119 | .00106 | .00062 | .00317 | .00277 | .00485 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8446.3** | **105770.** | **8957.5** |
| Stddev | 10.4 | 419. | 50.5 |
| %RSD | .12269 | .39651 | .56322 |
| #1 | 8453.6 | 105480. | 8921.9 |
| #2 | 8439.0 | 106070. | 8993.2 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 21:13:02 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00114** | **51.086** | **.00040** | **.00388** | **.00055** | **-.00005** | W **1.0711** | **.00321** | **.00002** | **.00014** | **-.00005** | **.00507** |
| Stddev | .00026 | .142 | .00252 | .00014 | .00012 | .00002 | .0055 | .00871 | .00024 | .00016 | .00005 | .00093 |
| %RSD | 22.633 | .27776 | 627.43 | 3.5639 | 21.104 | 31.150 | .51718 | 271.47 | 1089.5 | 120.09 | 101.66 | 18.315 |
| #1 | .00133 | 50.986 | -.00138 | .00397 | .00064 | -.00006 | 1.0672 | .00937 | .00019 | .00025 | -.00001 | .00442 |
| #2 | .00096 | 51.186 | .00218 | .00378 | .00047 | -.00004 | 1.0750 | -.00295 | -.00015 | .00002 | -.00009 | .00573 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.544** | **.21289** | **-.00014** | **-.00159** | **.00007** | **.00016** | **260.57** | **.00075** | **.00261** | **-.00062** | **5.1318** | **-.00256** |
| Stddev | .126 | .02386 | .00449 | .00192 | .00000 | .00028 | .13 | .00018 | .00031 | .00044 | .0033 | .00149 |
| %RSD | .24397 | 11.205 | 3240.7 | 120.73 | 3.7444 | 180.61 | .05119 | 24.286 | 11.880 | 69.909 | .06361 | 58.036 |
| #1 | 51.455 | .19602 | .00304 | -.00023 | .00007 | -.00004 | 260.47 | .00087 | .00283 | -.00093 | 5.1294 | -.00151 |
| #2 | 51.633 | .22976 | -.00332 | -.00294 | .00007 | .00035 | 260.66 | .00062 | .00239 | -.00032 | 5.1341 | -.00361 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00350** | **.01309** | **.02802** | **-.00051** | **.00047** | **4.8312** | **-.00066** | **.00268** | **10.497** | **.00127** | **.00014** | **.04227** |
| Stddev | .00026 | .01528 | .03271 | .00100 | .00002 | .0052 | .00016 | .00008 | .023 | .00049 | .00024 | .00272 |
| %RSD | 7.5150 | 116.74 | 116.74 | 196.01 | 4.1277 | .10656 | 24.926 | 2.9535 | .21553 | 38.332 | 176.49 | 6.4370 |
| #1 | -.00331 | .00228 | .00489 | -.00121 | .00046 | 4.8349 | -.00054 | .00262 | 10.481 | .00161 | -.00003 | .04035 |
| #2 | -.00368 | .02390 | .05114 | .00020 | .00048 | 4.8276 | -.00077 | .00273 | 10.513 | .00092 | .00031 | .04420 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8491.9** | **104770.** | **8740.8** |
| Stddev | 24.9 | 136. | 85.3 |
| %RSD | .29380 | .12975 | .97552 |
| #1 | 8509.6 | 104870. | 8801.1 |
| #2 | 8474.3 | 104680. | 8680.5 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 21:15:24 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50176** | **.50647** | **1.0290** | **.52508** | **.52707** | **.50507** | **.00159** | **5.1297** | **.51559** | **.50901** | **.51510** | **.50152** | **2.6063** |
| Stddev | .00026 | .00032 | .0026 | .00091 | .00071 | .00051 | .00146 | .0007 | .00048 | .00012 | .00110 | .00021 | .0011 |
| %RSD | .05180 | .06384 | .24949 | .17360 | .13556 | .10022 | 91.342 | .01328 | .09383 | .02393 | .21268 | .04119 | .04202 |
| #1 | .50157 | .50670 | 1.0272 | .52443 | .52657 | .50471 | .00056 | 5.1302 | .51525 | .50909 | .51432 | .50137 | 2.6056 |
| #2 | .50194 | .50624 | 1.0308 | .52572 | .52758 | .50543 | .00262 | 5.1293 | .51593 | .50892 | .51587 | .50166 | 2.6071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.900** | **.98361** | **19.747** | **.49075** | **.52257** | **5.3066** | **.51721** | **1.0436** | **1.0382** | **.02753** | **1.0228** | **1.0378** | **5.0959** |
| Stddev | .022 | .00311 | .009 | .00038 | .00002 | .0187 | .00040 | .0020 | .0004 | .00139 | .0030 | .0060 | .0566 |
| %RSD | .04271 | .31667 | .04709 | .07693 | .00434 | .35206 | .07694 | .19341 | .04290 | 5.0330 | .29498 | .57353 | 1.1108 |
| #1 | 50.885 | .98141 | 19.754 | .49049 | .52259 | 5.3198 | .51693 | 1.0451 | 1.0385 | .02851 | 1.0249 | 1.0336 | 5.1359 |
| #2 | 50.916 | .98582 | 19.741 | .49102 | .52256 | 5.2934 | .51749 | 1.0422 | 1.0379 | .02655 | 1.0206 | 1.0420 | 5.0559 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.905** | **1.0505** | **.50473** | **-.00420** | **.48831** | **1.0385** | **-.01850** | **.50331** | **.49935** | **.50674** |
| Stddev | .121 | .0024 | .00062 | .00178 | .00007 | .0046 | .01622 | .00065 | .00094 | .00063 |
| %RSD | 1.1108 | .22395 | .12250 | 42.273 | .01531 | .44550 | 87.702 | .12993 | .18867 | .12433 |
| #1 | 10.991 | 1.0489 | .50429 | -.00294 | .48837 | 1.0352 | -.02997 | .50285 | .50001 | .50718 |
| #2 | 10.820 | 1.0522 | .50516 | -.00546 | .48826 | 1.0417 | -.00703 | .50377 | .49868 | .50629 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8673.8** | **108430.** | **8826.0** |
| Stddev | 4.9 | 522. | 51.4 |
| %RSD | .05700 | .48158 | .58184 |
| #1 | 8677.3 | 108060. | 8862.3 |
| #2 | 8670.4 | 108800. | 8789.7 |

Sample Name: CCB Acquired: 8/15/2013 21:17:32 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00017** | **.00192** | **.00145** | **-.00018** | **.00011** | **.00497** | **.00137** | **.00011** | **.00021** | **-.00010** |
| Stddev | .00003 | .00008 | .00005 | .00019 | .00046 | .00007 | .00096 | .00133 | .00005 | .00014 | .00004 |
| %RSD | 12.106 | 51.158 | 2.5373 | 13.379 | 252.85 | 65.253 | 19.273 | 96.983 | 44.341 | 65.358 | 38.500 |
| #1 | .00024 | .00011 | .00189 | .00159 | -.00051 | .00006 | .00429 | .00043 | .00008 | .00011 | -.00008 |
| #2 | .00029 | .00023 | .00196 | .00131 | .00014 | .00016 | .00565 | .00231 | .00015 | .00031 | -.00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00008** | **.00110** | **.06144** | W **-.00316** | **.00157** | **.00011** | **.00087** | W **.17051** | **.00022** | **.00029** | **-.00096** |
| Stddev | .00018 | .00133 | .04873 | .00045 | .00051 | .00003 | .00009 | .02271 | .00005 | .00074 | .00069 |
| %RSD | 238.62 | 120.80 | 79.305 | 14.156 | 32.566 | 28.044 | 9.7810 | 13.320 | 23.541 | 252.31 | 72.036 |
| #1 | .00021 | .00204 | .02699 | -.00284 | .00121 | .00009 | .00093 | .15445 | .00026 | .00082 | -.00145 |
| #2 | -.00005 | .00016 | .09590 | -.00347 | .00193 | .00013 | .00081 | .18658 | .00019 | -.00023 | -.00047 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00261 | | | | .09160 | | | |
| Low Limit | | | | -.00261 | | | | -.09160 | | | |

| Elem | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02186** | W **.00412** | **.00014** | **-.00009** | **-.00018** | **-.00063** | **-.00009** | **-.00051** | **.00040** | **.00276** | **-.02691** |
| Stddev | .00404 | .00209 | .00097 | .00410 | .00876 | .00055 | .00006 | .00094 | .00026 | .00055 | .01342 |
| %RSD | 18.456 | 50.753 | 712.49 | 4776.1 | 4776.1 | 86.944 | 66.891 | 183.81 | 63.526 | 19.821 | 49.872 |
| #1 | .01901 | .00559 | .00082 | -.00298 | -.00638 | -.00103 | -.00005 | .00015 | .00022 | .00238 | -.03640 |
| #2 | .02472 | .00264 | -.00055 | .00281 | .00601 | -.00024 | -.00013 | -.00118 | .00058 | .00315 | -.01742 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .00314 | | | | | | | | | |
| Low Limit | | -.00314 | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.00069** | **.00109** | W **.00286** |
| Stddev | .00026 | .00018 | .00163 |
| %RSD | 37.902 | 16.044 | 56.856 |
| #1 | -.00050 | .00097 | .00401 |
| #2 | -.00087 | .00121 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00238 |
| Low Limit | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8876.8** | **109770.** | **8759.1** |
| Stddev | 12.9 | 45. | 103.9 |
| %RSD | .14479 | .04057 | 1.1862 |
| #1 | 8867.7 | 109730. | 8832.6 |
| #2 | 8885.9 | 109800. | 8685.6 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 21:19:46 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01099** | **.10518** | **.01697** | **.10044** | **.01058** | **.00104** | **.12094** | **.21886** | **.00541** | **.01074** | **.01043** | **.01567** | **.10571** |
| Stddev | .00015 | .00053 | .00047 | .00119 | .00014 | .00001 | .00245 | .00318 | .00007 | .00028 | .00002 | .00004 | .00170 |
| %RSD | 1.3349 | .50128 | 2.7429 | 1.1811 | 1.3295 | 1.0168 | 2.0277 | 1.4507 | 1.2748 | 2.6231 | .15029 | .27892 | 1.6122 |
| #1 | .01110 | .10555 | .01730 | .10128 | .01048 | .00104 | .12268 | .21662 | .00546 | .01094 | .01044 | .01570 | .10450 |
| #2 | .01089 | .10480 | .01664 | .09960 | .01068 | .00103 | .11921 | .22111 | .00536 | .01055 | .01042 | .01564 | .10691 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2210** | **.00960** | **.20702** | **.01020** | **.02067** | **1.2188** | **.04298** | **2.9818** | **.00860** | **.02157** | **.00828** | **.01624** | **.50454** |
| Stddev | .0246 | .00136 | .00062 | .00005 | .00010 | .0170 | .00009 | .0209 | .00127 | .00174 | .00185 | .00017 | .01552 |
| %RSD | .76450 | 14.205 | .29919 | .44379 | .46661 | 1.3937 | .21872 | .70160 | 14.728 | 8.0488 | 22.394 | 1.0572 | 3.0770 |
| #1 | 3.2036 | .01057 | .20658 | .01024 | .02074 | 1.2308 | .04304 | 2.9965 | .00950 | .02280 | .00959 | .01637 | .49356 |
| #2 | 3.2384 | .00864 | .20746 | .01017 | .02060 | 1.2068 | .04291 | 2.9670 | .00770 | .02034 | .00697 | .01612 | .51552 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0797** | **.10520** | **.01041** | **.01495** | **.00997** | **.01610** | F **.02776** | **.00971** | **.02079** | **.01870** |
| Stddev | .0332 | .00132 | .00004 | .00047 | .00020 | .00036 | .01273 | .00002 | .00017 | .00160 |
| %RSD | 3.0770 | 1.2558 | .42866 | 3.1482 | 2.0427 | 2.2499 | 45.859 | .19214 | .79928 | 8.5817 |
| #1 | 1.0562 | .10613 | .01038 | .01529 | .01011 | .01585 | .01876 | .00969 | .02091 | .01983 |
| #2 | 1.1032 | .10426 | .01044 | .01462 | .00982 | .01636 | .03676 | .00972 | .02067 | .01756 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8937.2** | **112770.** | **9082.1** |
| Stddev | 13.5 | 128. | 55.5 |
| %RSD | .15147 | .11384 | .61071 |
| #1 | 8946.8 | 112860. | 9121.3 |
| #2 | 8927.6 | 112680. | 9042.9 |

Sample Name: lb3 280-186751/1-b  Acquired: 8/15/2013 21:22:04  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00625** | **-.00054** | **.03361** | **.00110** | **-.00001** | **.00204** | **.02747** | **.00013** | **.00009** |
| Stddev | .00015 | .00016 | .00295 | .00027 | .00018 | .00004 | .00256 | .00006 | .00011 | .00004 |
| %RSD | 33.016 | 2.4810 | 547.74 | .79117 | 16.756 | 318.91 | 125.30 | .20801 | 84.546 | 43.954 |
| #1 | .00058 | .00636 | -.00263 | .03342 | .00123 | .00002 | .00023 | .02751 | .00005 | .00012 |
| #2 | .00036 | .00614 | .00155 | .03380 | .00097 | -.00004 | .00385 | .02743 | .00021 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00044** | **.02422** | **.10051** | **.00176** | **.01265** | **.00031** | **.00000** | W **.73780** | **.00011** |
| Stddev | .00007 | .00018 | .00018 | .07694 | .00269 | .00128 | .00003 | .00002 | .00483 | .00014 |
| %RSD | 11.976 | 40.323 | .72608 | 76.552 | 152.96 | 10.095 | 8.4730 | 2781.2 | .65468 | 127.49 |
| #1 | .00055 | .00056 | .02435 | .04610 | -.00014 | .01356 | .00032 | .00001 | .73438 | .00001 |
| #2 | .00065 | .00031 | .02410 | .15492 | .00367 | .01175 | .00029 | -.00001 | .74121 | .00022 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | .50000 | |
| Low Limit | | | | | | | | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **.00043** | **.02079** | W **-.00568** | **.00003** | **.07589** | **.16240** | **-.00078** | **-.00006** | **.00016** |
| Stddev | .00039 | .00081 | .00020 | .00186 | .00253 | .01112 | .02379 | .00023 | .00007 | .00036 |
| %RSD | 36.677 | 188.85 | .95784 | 32.829 | 7947.8 | 14.652 | 14.652 | 29.519 | 119.65 | 223.15 |
| #1 | .00079 | .00100 | .02065 | -.00699 | .00182 | .06802 | .14557 | -.00062 | -.00001 | -.00009 |
| #2 | .00135 | -.00014 | .02094 | -.00436 | -.00175 | .08375 | .17922 | -.00094 | -.00010 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00500 | | | | | | |
| Low Limit | | | | -.00500 | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00035** | **-.01139** | **-.00023** | **.00403** | **.00421** |
| Stddev | .00016 | .00055 | .00612 | .00000 | .00016 | .00061 |
| %RSD | 48.647 | 157.49 | 53.759 | 1.9602 | 4.0905 | 14.572 |
| #1 | .00022 | .00074 | -.01572 | -.00024 | .00415 | .00378 |
| #2 | .00045 | -.00004 | -.00706 | -.00023 | .00392 | .00465 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8888.8** | **112380.** | **8927.0** |
| Stddev | 8.2 | 331. | 58.9 |
| %RSD | .09243 | .29437 | .65957 |
| #1 | 8894.6 | 112150. | 8885.3 |
| #2 | 8883.0 | 112620. | 8968.6 |

Sample Name: lcs 280-186751/2-b Acquired: 8/15/2013 21:24:19 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20582** | W **.40091** | **.78930** | F **.22443** | **2.4923** | **.00966** | **.43711** | **9.9141** | **.22227** | **.09817** |
| Stddev | .00122 | .00119 | .00296 | .00015 | .0147 | .00016 | .00159 | .0301 | .00012 | .00008 |
| %RSD | .59338 | .29610 | .37462 | .06492 | .59148 | 1.6993 | .36429 | .30325 | .05397 | .08063 |
| #1 | .20668 | .40007 | .79139 | .22432 | 2.4819 | .00955 | .43598 | 9.8928 | .22235 | .09811 |
| #2 | .20495 | .40175 | .78720 | .22453 | 2.5028 | .00978 | .43823 | 9.9353 | .22218 | .09822 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .43200 | | .22000 | | | | | | |
| Low Limit | | 1.7200 | | .17800 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0493** | **.44243** | **.20697** | **9.9506** | **.19078** | **9.4511** | **.09486** | **.19844** | **10.512** | **11.079** |
| Stddev | .0007 | .00026 | .00152 | .0430 | .00657 | .0052 | .00020 | .00038 | .031 | .070 |
| %RSD | .06682 | .05838 | .73624 | .43248 | 3.4451 | .05482 | .21089 | .19300 | .29795 | .63410 |
| #1 | 1.0498 | .44261 | .20805 | 9.9810 | .18613 | 9.4548 | .09501 | .19871 | 10.489 | 11.030 |
| #2 | 1.0488 | .44225 | .20590 | 9.9201 | .19543 | 9.4475 | .09472 | .19816 | 10.534 | 11.129 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10006** | **2.0120** | **1.1215** | **.01961** | **.09064** | **.58488** | **1.9747** | F **4.2259** | **.39521** | **.19656** |
| Stddev | .00014 | .0023 | .0014 | .00198 | .00068 | .00042 | .0139 | .0297 | .00020 | .00140 |
| %RSD | .13878 | .11424 | .12397 | 10.092 | .75066 | .07225 | .70178 | .70178 | .04985 | .71004 |
| #1 | .10016 | 2.0136 | 1.1225 | .01821 | .09016 | .58517 | 1.9649 | 4.2049 | .39535 | .19557 |
| #2 | .09996 | 2.0103 | 1.1205 | .02101 | .09112 | .58458 | 1.9845 | 4.2468 | .39507 | .19755 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | | | | | | 4.9220 | | |
| Low Limit | | | | | | | | 4.0200 | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17697** | **.18382** | **.40260** | **.42260** | **.09767** | **.47537** | **.09784** |
| Stddev | .00166 | .00063 | .00283 | .04848 | .00040 | .00166 | .00126 |
| %RSD | .93943 | .34087 | .70284 | 11.471 | .41168 | .34961 | 1.2831 |
| #1 | .17814 | .18338 | .40060 | .38832 | .09739 | .47655 | .09696 |
| #2 | .17579 | .18426 | .40460 | .45688 | .09796 | .47420 | .09873 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8721.4** | **110910.** | **8926.1** |
| Stddev | 1.5 | 540. | 65.5 |
| %RSD | .01692 | .48659 | .73348 |
| #1 | 8720.3 | 111290. | 8972.4 |
| #2 | 8722.4 | 110520. | 8879.8 |

Sample Name: 280-45178-a-1-b@50 Acquired: 8/15/2013 21:26:28 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.05903** | **.01317** | **.00494** | **.00057** | **.00005** | **.00322** | **.18236** | **.00103** | **.00018** |
| Stddev | .00012 | .00017 | .00019 | .00055 | .00020 | .00000 | .00229 | .00187 | .00030 | .00001 |
| %RSD | 81.576 | .29209 | 1.4117 | 11.184 | 35.833 | .88333 | 71.247 | 1.0253 | 29.597 | 5.3941 |
| #1 | .00006 | .05891 | .01331 | .00533 | .00071 | .00005 | .00160 | .18103 | .00124 | .00018 |
| #2 | .00023 | .05915 | .01304 | .00455 | .00042 | .00005 | .00483 | .18368 | .00081 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.5304** | **.00096** | **1.8224** | **3.8309** | **-.00180** | **.01497** | **.00046** | **.00081** | **.26491** | **-.00024** |
| Stddev | .0025 | .00006 | .0078 | .0614 | .00213 | .00317 | .00002 | .00004 | .00003 | .00071 |
| %RSD | .02639 | 5.7395 | .42609 | 1.6022 | 118.22 | 21.193 | 3.4981 | 5.2401 | .00981 | 297.12 |
| #1 | 9.5286 | .00100 | 1.8169 | 3.7875 | -.00331 | .01273 | .00048 | .00084 | .26490 | -.00074 |
| #2 | 9.5321 | .00092 | 1.8279 | 3.8743 | -.00030 | .01722 | .00045 | .00078 | .26493 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00107** | **-.00033** | **.03725** | **.00535** | **.00216** | **.15883** | **.33989** | **.00332** | **.00055** | **.00341** |
| Stddev | .00114 | .00074 | .00029 | .00073 | .00322 | .02706 | .05790 | .00013 | .00003 | .00102 |
| %RSD | 106.59 | 227.70 | .78956 | 13.602 | 149.28 | 17.036 | 17.036 | 4.0635 | 4.9617 | 29.824 |
| #1 | .00026 | .00020 | .03746 | .00587 | -.00012 | .17796 | .38083 | .00341 | .00057 | .00412 |
| #2 | .00187 | -.00085 | .03704 | .00484 | .00444 | .13969 | .29895 | .00322 | .00053 | .00269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00089** | **-.00077** | W **-.05211** | **.00704** | **.00906** | **.00372** |
| Stddev | .00029 | .00022 | .02000 | .00020 | .00000 | .00127 |
| %RSD | 32.879 | 28.927 | 38.378 | 2.8128 | .01735 | 34.105 |
| #1 | .00069 | -.00093 | -.06625 | .00718 | .00906 | .00461 |
| #2 | .00110 | -.00061 | -.03797 | .00690 | .00906 | .00282 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8729.7** | **112570.** | **8950.1** |
| Stddev | 31.4 | 158. | 48.8 |
| %RSD | .35937 | .14062 | .54468 |
| #1 | 8707.5 | 112680. | 8915.7 |
| #2 | 8751.9 | 112450. | 8984.6 |

Sample Name: 45178-a-1-bSD@250 Acquired: 8/15/2013 21:28:44 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00053** | **.02098** | **.00331** | **.00198** | **.00008** | **.00003** | **.00352** | **.05323** | **.00019** | **.00016** |
| Stddev | .00009 | .00018 | .00033 | .00047 | .00006 | .00004 | .00116 | .00251 | .00003 | .00002 |
| %RSD | 16.623 | .87583 | 10.101 | 23.873 | 69.728 | 134.25 | 32.851 | 4.7214 | 16.592 | 14.197 |
| #1 | .00060 | .02111 | .00355 | .00232 | .00012 | .00000 | .00434 | .05145 | .00021 | .00018 |
| #2 | .00047 | .02085 | .00307 | .00165 | .00004 | .00006 | .00271 | .05501 | .00016 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8925** | **.00052** | **.37095** | **.81376** | **-.00150** | **.00387** | **.00020** | **.00002** | **.14212** | **.00019** |
| Stddev | .0035 | .00011 | .00353 | .03429 | .00230 | .00342 | .00007 | .00011 | .01402 | .00011 |
| %RSD | .18289 | 21.682 | .95142 | 4.2133 | 154.15 | 88.291 | 34.231 | 714.15 | 9.8631 | 57.548 |
| #1 | 1.8949 | .00044 | .36846 | .83800 | .00013 | .00145 | .00025 | .00009 | .13221 | .00011 |
| #2 | 1.8900 | .00059 | .37345 | .78952 | -.00312 | .00628 | .00015 | -.00006 | .15204 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00016** | **-.00070** | **.02016** | **-.00102** | **.00182** | **.03927** | **.08403** | **-.00029** | **.00006** | **.00070** |
| Stddev | .00056 | .00080 | .00167 | .00204 | .00447 | .01599 | .03422 | .00057 | .00004 | .00052 |
| %RSD | 347.71 | 113.61 | 8.2758 | 200.99 | 245.22 | 40.718 | 40.718 | 196.71 | 62.982 | 74.023 |
| #1 | -.00056 | -.00127 | .02134 | -.00246 | .00499 | .02796 | .05984 | .00011 | .00003 | .00033 |
| #2 | .00024 | -.00014 | .01898 | .00043 | -.00134 | .05057 | .10823 | -.00069 | .00009 | .00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.00101** | **-.02953** | **.00065** | **.00442** | **.00432** |
| Stddev | .00053 | .00012 | .04264 | .00002 | .00010 | .00139 |
| %RSD | 102.25 | 11.747 | 144.42 | 3.2954 | 2.3033 | 32.169 |
| #1 | .00014 | .00109 | -.05968 | .00067 | .00435 | .00334 |
| #2 | .00089 | .00093 | .00063 | .00064 | .00450 | .00530 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8826.0** | **111960.** | **8850.7** |
| Stddev | 23.3 | 245. | 35.2 |
| %RSD | .26349 | .21848 | .39724 |
| #1 | 8809.6 | 111780. | 8875.6 |
| #2 | 8842.5 | 112130. | 8825.8 |

Sample Name: 45178-a-1-c ms@50 Acquired: 8/15/2013 21:30:56 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00480** | **.04726** | **.02640** | **.00824** | **.04645** | **.00015** | **.01136** | **.35268** | **.00490** | **.00199** |
| Stddev | .00011 | .00042 | .00025 | .00030 | .00001 | .00005 | .00242 | .00406 | .00010 | .00015 |
| %RSD | 2.3912 | .89519 | .93709 | 3.6081 | .01586 | 33.169 | 21.255 | 1.1516 | 1.9871 | 7.6315 |
| #1 | .00488 | .04756 | .02657 | .00845 | .04645 | .00019 | .01307 | .35555 | .00484 | .00210 |
| #2 | .00472 | .04696 | .02622 | .00803 | .04646 | .00012 | .00966 | .34981 | .00497 | .00188 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.9208** | **.00669** | **1.6485** | **3.6486** | **.00393** | **.19017** | **.00216** | **.00425** | **.41421** | **.00192** |
| Stddev | .0013 | .00025 | .0052 | .0108 | .00301 | .00362 | .00004 | .00004 | .00467 | .00016 |
| %RSD | .01468 | 3.7742 | .31673 | .29709 | 76.534 | 1.9033 | 1.7792 | .84617 | 1.1280 | 8.0780 |
| #1 | 8.9217 | .00687 | 1.6448 | 3.6562 | .00180 | .18761 | .00213 | .00423 | .41090 | .00203 |
| #2 | 8.9199 | .00652 | 1.6522 | 3.6409 | .00605 | .19273 | .00219 | .00428 | .41751 | .00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03759** | **.02042** | **.03202** | **.00649** | **.01121** | **.19749** | **.42263** | **.00987** | **.00413** | **.00556** |
| Stddev | .00008 | .00015 | .00225 | .00233 | .00259 | .01055 | .02258 | .00041 | .00007 | .00054 |
| %RSD | .22111 | .71624 | 7.0323 | 35.911 | 23.135 | 5.3438 | 5.3438 | 4.1547 | 1.6793 | 9.7202 |
| #1 | .03765 | .02052 | .03362 | .00814 | .00937 | .20495 | .43860 | .00958 | .00418 | .00518 |
| #2 | .03753 | .02031 | .03043 | .00485 | .01304 | .19003 | .40666 | .01016 | .00408 | .00594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00434** | **.00745** | W **-.06215** | **.00802** | **.01768** | **.00658** |
| Stddev | .00023 | .00078 | .01037 | .00019 | .00041 | .00083 |
| %RSD | 5.3067 | 10.523 | 16.688 | 2.3612 | 2.3374 | 12.557 |
| #1 | .00418 | .00690 | -.05481 | .00788 | .01739 | .00599 |
| #2 | .00451 | .00801 | -.06948 | .00815 | .01798 | .00716 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8736.7** | **111170.** | **8961.4** |
| Stddev | 9.5 | 45. | 24.6 |
| %RSD | .10899 | .04062 | .27412 |
| #1 | 8730.0 | 111200. | 8978.7 |
| #2 | 8743.4 | 111140. | 8944.0 |

Sample Name: 45178-a-1-d msd@50 Acquired: 8/15/2013 21:33:13 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00433** | **.04449** | **.02490** | **.00810** | **.04582** | **.00029** | **.01093** | **.34596** | **.00463** | **.00189** |
| Stddev | .00017 | .00020 | .00030 | .00047 | .00040 | .00012 | .00193 | .00520 | .00006 | .00017 |
| %RSD | 3.8296 | .44247 | 1.2231 | 5.7668 | .87681 | 42.187 | 17.641 | 1.5037 | 1.3417 | 8.8039 |
| #1 | .00421 | .04463 | .02469 | .00777 | .04553 | .00038 | .00957 | .34228 | .00458 | .00201 |
| #2 | .00444 | .04435 | .02512 | .00843 | .04610 | .00020 | .01230 | .34964 | .00467 | .00178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.6424** | **.00657** | **1.6201** | **3.5447** | **.00358** | **.18869** | **.00218** | **.00388** | **.39537** | **.00186** |
| Stddev | .0014 | .00024 | .0016 | .0411 | .00079 | .00096 | .00004 | .00006 | .00176 | .00039 |
| %RSD | .01668 | 3.6224 | .10125 | 1.1582 | 22.022 | .50806 | 1.8113 | 1.4741 | .44438 | 21.108 |
| #1 | 8.6434 | .00674 | 1.6190 | 3.5156 | .00302 | .18801 | .00221 | .00384 | .39413 | .00213 |
| #2 | 8.6414 | .00640 | 1.6213 | 3.5737 | .00413 | .18937 | .00215 | .00392 | .39662 | .00158 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03569** | **.02080** | **.03017** | **.00741** | **.01131** | **.17995** | **.38508** | **.00993** | **.00398** | **.00553** |
| Stddev | .00063 | .00026 | .00035 | .00361 | .00128 | .01133 | .02426 | .00024 | .00000 | .00154 |
| %RSD | 1.7663 | 1.2536 | 1.1531 | 48.666 | 11.278 | 6.2988 | 6.2988 | 2.4453 | .04677 | 27.896 |
| #1 | .03524 | .02099 | .02993 | .00486 | .01221 | .17193 | .36793 | .01010 | .00398 | .00662 |
| #2 | .03613 | .02062 | .03042 | .00996 | .01041 | .18796 | .40224 | .00976 | .00398 | .00444 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00410** | **.00755** | **-.03808** | **.00785** | **.01589** | **.00557** |
| Stddev | .00011 | .00107 | .01562 | .00040 | .00007 | .00199 |
| %RSD | 2.6117 | 14.138 | 41.031 | 5.1055 | .45394 | 35.696 |
| #1 | .00402 | .00679 | -.02703 | .00813 | .01594 | .00698 |
| #2 | .00417 | .00830 | -.04912 | .00756 | .01584 | .00417 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8711.4** | **111630.** | **8933.1** |
| Stddev | 26.8 | 31. | 14.8 |
| %RSD | .30726 | .02814 | .16594 |
| #1 | 8730.3 | 111600. | 8943.6 |
| #2 | 8692.5 | 111650. | 8922.6 |

Sample Name: 45178-a-1-bPDS@50 Acquired: 8/15/2013 21:35:31 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05046** | **1.0536** | **.21763** | **.10791** | **.10552** | **.05014** | **.00007** | **20.490** | **.05326** | **.05154** |
| Stddev | .00002 | .0008 | .00336 | .00054 | .00029 | .00035 | .00037 | .015 | .00011 | .00044 |
| %RSD | .04314 | .07248 | 1.5454 | .49760 | .27460 | .70118 | 546.69 | .07327 | .20266 | .85312 |
| #1 | .05045 | 1.0531 | .22001 | .10753 | .10532 | .05039 | .00033 | 20.501 | .05319 | .05122 |
| #2 | .05048 | 1.0541 | .21525 | .10829 | .10572 | .04990 | -.00019 | 20.479 | .05334 | .05185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.3762** | **.05156** | **2.8111** | **24.045** | **.09819** | **19.558** | **.04933** | **.05338** | **21.424** | **.05188** |
| Stddev | .0017 | .00018 | .0016 | .011 | .00041 | .013 | .00003 | .00022 | .237 | .00020 |
| %RSD | .01853 | .34256 | .05840 | .04652 | .42207 | .06554 | .06312 | .41256 | 1.1048 | .38222 |
| #1 | 9.3774 | .05143 | 2.8099 | 24.038 | .09790 | 19.549 | .04931 | .05353 | 21.256 | .05174 |
| #2 | 9.3750 | .05168 | 2.8122 | 24.053 | .09849 | 19.567 | .04935 | .05322 | 21.591 | .05202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.1158** | **.10306** | **.02946** | **.10602** | **.20331** | **5.2629** | **11.263** | **.10876** | **.05225** | **.19063** |
| Stddev | .0099 | .00100 | .00097 | .00351 | .00083 | .0260 | .056 | .00088 | .00031 | .00071 |
| %RSD | .46710 | .97233 | 3.2972 | 3.3116 | .41023 | .49470 | .49470 | .80694 | .59638 | .37051 |
| #1 | 2.1088 | .10235 | .02877 | .10850 | .20272 | 5.2445 | 11.223 | .10814 | .05203 | .19013 |
| #2 | 2.1228 | .10377 | .03014 | .10354 | .20390 | 5.2813 | 11.302 | .10938 | .05247 | .19113 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05046** | **.20460** | **.51296** | **.05688** | **.20560** | **.05497** |
| Stddev | .00054 | .00164 | .02194 | .00055 | .00040 | .00137 |
| %RSD | 1.0755 | .80230 | 4.2778 | .97223 | .19560 | 2.4995 |
| #1 | .05008 | .20344 | .52847 | .05649 | .20532 | .05400 |
| #2 | .05084 | .20576 | .49744 | .05727 | .20589 | .05594 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8512.2** | **108180.** | **8851.5** |
| Stddev | 15.9 | 173. | 10.3 |
| %RSD | .18672 | .15984 | .11657 |
| #1 | 8523.5 | 108300. | 8844.2 |
| #2 | 8501.0 | 108050. | 8858.8 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 21:37:43 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00102** | **50.972** | **.00040** | **.00193** | **.00066** | **-.00002** | W **1.0673** | **-.00928** | **.00014** | **.00006** | **.00161** | **.00507** |
| Stddev | .00050 | .092 | .00374 | .00018 | .00009 | .00007 | .0005 | .00218 | .00002 | .00011 | .00028 | .00017 |
| %RSD | 49.244 | .17975 | 941.45 | 9.3485 | 13.354 | 292.36 | .04483 | 23.544 | 14.974 | 191.51 | 17.485 | 3.2590 |
| #1 | .00067 | 50.907 | -.00225 | .00206 | .00072 | -.00007 | 1.0677 | -.01082 | .00016 | .00013 | .00141 | .00519 |
| #2 | .00138 | 51.036 | .00304 | .00180 | .00060 | .00003 | 1.0670 | -.00773 | .00013 | -.00002 | .00181 | .00495 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.680** | **.15196** | **.00020** | **-.00475** | **.00003** | **.00000** | **260.37** | **.00072** | **.00304** | **.00039** | **5.0797** | **-.00149** |
| Stddev | .067 | .00209 | .00483 | .00202 | .00001 | .00009 | .97 | .00026 | .00140 | .00043 | .0104 | .00285 |
| %RSD | .12993 | 1.3739 | 2385.9 | 42.468 | 14.453 | 1927.3 | .37226 | 35.664 | 45.938 | 110.86 | .20464 | 191.10 |
| #1 | 51.632 | .15048 | .00362 | -.00333 | .00004 | -.00006 | 259.68 | .00054 | .00205 | .00070 | 5.0871 | -.00350 |
| #2 | 51.727 | .15344 | -.00322 | -.00618 | .00003 | .00007 | 261.06 | .00090 | .00403 | .00008 | 5.0724 | .00052 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00407** | **.00802** | **.01717** | **-.00121** | **.00048** | **4.8276** | **-.00087** | **.00137** | W **10.538** | **.00103** | **.00016** | **.04268** |
| Stddev | .00029 | .00073 | .00157 | .00064 | .00011 | .0014 | .00013 | .00045 | .065 | .00012 | .00018 | .00040 |
| %RSD | 7.0050 | 9.1187 | 9.1187 | 53.484 | 22.901 | .02949 | 15.235 | 32.719 | .61921 | 11.881 | 115.16 | .92927 |
| #1 | -.00428 | .00854 | .01828 | -.00075 | .00055 | 4.8286 | -.00096 | .00169 | 10.584 | .00112 | .00028 | .04296 |
| #2 | -.00387 | .00751 | .01606 | -.00166 | .00040 | 4.8266 | -.00078 | .00106 | 10.492 | .00094 | .00003 | .04240 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8487.1** | **105320.** | **8788.5** |
| Stddev | 16.7 | 255. | 11.1 |
| %RSD | .19626 | .24249 | .12634 |
| #1 | 8498.9 | 105140. | 8780.7 |
| #2 | 8475.3 | 105500. | 8796.4 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 21:40:06 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50384** | **.50581** | **1.0331** | **.52638** | **.52916** | **.50592** | **.00324** | **5.1365** | **.51788** | **.50960** | **.51681** | **.50444** | **2.5917** |
| Stddev | .00017 | .00130 | .0001 | .00045 | .00260 | .00124 | .00040 | .0155 | .00021 | .00053 | .00055 | .00036 | .0122 |
| %RSD | .03409 | .25770 | .00563 | .08468 | .49166 | .24592 | 12.473 | .30240 | .04081 | .10497 | .10577 | .07068 | .47177 |
| #1 | .50396 | .50673 | 1.0331 | .52606 | .52732 | .50504 | .00353 | 5.1255 | .51803 | .50998 | .51719 | .50419 | 2.5831 |
| #2 | .50372 | .50489 | 1.0330 | .52669 | .53100 | .50680 | .00296 | 5.1475 | .51773 | .50922 | .51642 | .50469 | 2.6003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.915** | **.98348** | **19.839** | **.49202** | **.52325** | **5.2381** | **.51870** | **1.0454** | **1.0427** | **.00820** | **1.0238** | **1.0399** | **5.1457** |
| Stddev | .128 | .00378 | .038 | .00081 | .00059 | .0103 | .00043 | .0018 | .0003 | .00172 | .0045 | .0033 | .0581 |
| %RSD | .25200 | .38408 | .19046 | .16484 | .11267 | .19590 | .08248 | .16774 | .02561 | 20.917 | .44360 | .31633 | 1.1285 |
| #1 | 50.824 | .98615 | 19.865 | .49260 | .52367 | 5.2454 | .51901 | 1.0466 | 1.0425 | .00942 | 1.0271 | 1.0376 | 5.1047 |
| #2 | 51.006 | .98081 | 19.812 | .49145 | .52284 | 5.2308 | .51840 | 1.0441 | 1.0429 | .00699 | 1.0206 | 1.0423 | 5.1868 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.012** | **1.0541** | **.50456** | **-.00545** | **.49118** | **1.0412** | **.00653** | **.50380** | **.50018** | **.50966** |
| Stddev | .124 | .0003 | .00160 | .00006 | .00092 | .0012 | .00852 | .00227 | .00056 | .00204 |
| %RSD | 1.1285 | .02631 | .31746 | 1.1475 | .18655 | .11166 | 130.50 | .45004 | .11290 | .40026 |
| #1 | 10.924 | 1.0540 | .50343 | -.00550 | .49053 | 1.0420 | .00050 | .50220 | .50058 | .50822 |
| #2 | 11.100 | 1.0543 | .50569 | -.00541 | .49182 | 1.0404 | .01256 | .50540 | .49978 | .51110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8725.6** | **109100.** | **8885.2** |
| Stddev | 19.6 | 40. | 30.0 |
| %RSD | .22483 | .03665 | .33736 |
| #1 | 8739.4 | 109070. | 8864.0 |
| #2 | 8711.7 | 109130. | 8906.4 |

Sample Name: CCB  Acquired: 8/15/2013 21:42:13  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00019** | **.00135** | **.00131** | **.00000** | **.00008** | **.00772** | **-.00242** | **.00004** | **-.00005** | **.00025** | **.00048** |
| Stddev | .00015 | .00057 | .00261 | .00029 | .00005 | .00000 | .00289 | .00247 | .00012 | .00011 | .00003 | .00014 |
| %RSD | 288.12 | 303.51 | 193.50 | 22.429 | 1220.3 | 5.6279 | 37.499 | 101.99 | 340.03 | 224.97 | 10.346 | 28.522 |
| #1 | -.00005 | .00059 | -.00050 | .00110 | -.00003 | .00009 | .00977 | -.00416 | .00012 | .00003 | .00023 | .00039 |
| #2 | .00016 | -.00022 | .00320 | .00152 | .00004 | .00008 | .00567 | -.00067 | -.00005 | -.00013 | .00026 | .00058 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00107** | **.03719** | **-.00223** | **.00176** | **.00010** | **.00061** | W **.11996** | **.00012** | **-.00001** | **-.00129** | **.00429** | W **.00406** |
| Stddev | .00104 | .00090 | .00078 | .00075 | .00001 | .00023 | .00482 | .00011 | .00011 | .00127 | .00190 | .00209 |
| %RSD | 96.979 | 2.4085 | 35.150 | 42.555 | 9.3584 | 38.253 | 4.0147 | 94.357 | 1367.6 | 98.603 | 44.259 | 51.576 |
| #1 | -.00034 | .03655 | -.00279 | .00123 | .00011 | .00045 | .11655 | .00004 | .00007 | -.00039 | .00564 | .00258 |
| #2 | -.00181 | .03782 | -.00168 | .00230 | .00009 | .00078 | .12336 | .00020 | -.00009 | -.00219 | .00295 | .00554 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **-.00094** | **-.00200** | **-.00172** | **-.00002** | **-.00079** | **.00016** | **.00135** | **-.00187** | **-.00027** | **.00250** | W **.00325** |
| Stddev | .00443 | .00033 | .00072 | .00057 | .00011 | .00140 | .00009 | .00038 | .00232 | .00001 | .00005 | .00044 |
| %RSD | 1208.3 | 35.773 | 35.773 | 33.333 | 628.82 | 176.91 | 59.269 | 28.544 | 124.30 | 1.8996 | 2.0270 | 13.422 |
| #1 | -.00350 | -.00117 | -.00251 | -.00131 | .00006 | .00020 | .00023 | .00107 | -.00023 | -.00028 | .00247 | .00295 |
| #2 | .00277 | -.00070 | -.00150 | -.00212 | -.00010 | -.00179 | .00009 | .00162 | -.00350 | -.00027 | .00254 | .00356 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8767.8** | **110600.** | **8874.3** |
| Stddev | 5.2 | 226. | 80.7 |
| %RSD | .05983 | .20469 | .90947 |
| #1 | 8771.6 | 110760. | 8931.3 |
| #2 | 8764.1 | 110440. | 8817.2 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 21:44:29 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01009** | **.10642** | **.01686** | **.10032** | **.01089** | **.00105** | **.11838** | **.22653** | **.00555** | **.01073** | **.01137** | **.01557** | **.10626** | **3.1819** |
| Stddev | .00050 | .00009 | .00121 | .00006 | .00033 | .00001 | .00249 | .00295 | .00024 | .00022 | .00024 | .00002 | .00243 | .0034 |
| %RSD | 4.9839 | .08280 | 7.1824 | .05853 | 3.0117 | .93057 | 2.1073 | 1.3006 | 4.2792 | 2.0564 | 2.1521 | .10108 | 2.2863 | .10835 |
| #1 | .01044 | .10636 | .01600 | .10036 | .01113 | .00105 | .11662 | .22862 | .00571 | .01089 | .01120 | .01559 | .10454 | 3.1843 |
| #2 | .00973 | .10648 | .01771 | .10028 | .01066 | .00106 | .12015 | .22445 | .00538 | .01058 | .01154 | .01556 | .10798 | 3.1794 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00996** | **.20779** | **.01026** | **.02105** | **1.1834** | **.04329** | **3.0182** | **.00815** | **.00375** | **.00890** | **.01429** | **.50994** | **1.0913** | **.10703** |
| Stddev | .00217 | .00137 | .00009 | .00018 | .0258 | .00019 | .0030 | .00138 | .00110 | .00397 | .00258 | .02751 | .0589 | .00102 |
| %RSD | 21.834 | .66169 | .88867 | .83987 | 2.1780 | .43597 | .09989 | 16.969 | 29.257 | 44.623 | 18.048 | 5.3951 | 5.3951 | .94955 |
| #1 | .01149 | .20876 | .01032 | .02117 | 1.1652 | .04316 | 3.0203 | .00717 | .00297 | .00609 | .01246 | .49048 | 1.0496 | .10775 |
| #2 | .00842 | .20682 | .01019 | .02092 | 1.2017 | .04343 | 3.0161 | .00913 | .00453 | .01171 | .01611 | .52939 | 1.1329 | .10631 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01033** | **.01424** | **.00995** | **.01663** | **.04968** | **.00946** | **.02162** | **.01779** |
| Stddev | .00002 | .00103 | .00026 | .00151 | .00215 | .00018 | .00085 | .00000 |
| %RSD | .14947 | 7.2413 | 2.6280 | 9.0827 | 4.3233 | 1.8524 | 3.9145 | .02744 |
| #1 | .01034 | .01497 | .00976 | .01556 | .05120 | .00958 | .02222 | .01780 |
| #2 | .01032 | .01351 | .01013 | .01770 | .04816 | .00933 | .02103 | .01779 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8750.8** | **109720.** | **8816.1** |
| Stddev | 13.2 | 823. | 2.6 |
| %RSD | .15115 | .75051 | .02916 |
| #1 | 8741.4 | 109130. | 8817.9 |
| #2 | 8760.1 | 110300. | 8814.3 |

Sample Name: 280-45178-a-1-b@5 Acquired: 8/15/2013 21:46:46 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | **.37916** | **.00112** | **.04505** | **.00305** | **-.00006** | **.01573** | **1.7416** | **.00828** | **.00291** |
| Stddev | .00016 | .00172 | .00214 | .00045 | .00006 | .00000 | .00061 | .0069 | .00012 | .00003 |
| %RSD | 19.982 | .45282 | 190.97 | .98953 | 1.8050 | 2.4457 | 3.8990 | .39580 | 1.4934 | 1.0014 |
| #1 | .00094 | .37795 | -.00039 | .04473 | .00301 | -.00006 | .01616 | 1.7465 | .00819 | .00289 |
| #2 | .00071 | .38038 | .00264 | .04536 | .00309 | -.00006 | .01529 | 1.7367 | .00836 | .00293 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **99.102** | **.00773** | **18.115** | **37.917** | **-.00079** | **.12587** | **.00219** | **.00644** | **1.3026** | **-.00064** |
| Stddev | .096 | .00003 | .090 | .034 | .00120 | .00491 | .00001 | .00007 | .0073 | .00000 |
| %RSD | .09689 | .35775 | .49695 | .09009 | 151.23 | 3.9043 | .34399 | 1.0820 | .56215 | .18962 |
| #1 | 99.034 | .00771 | 18.051 | 37.893 | .00006 | .12240 | .00220 | .00639 | 1.2974 | -.00064 |
| #2 | 99.169 | .00775 | 18.178 | 37.941 | -.00164 | .12935 | .00219 | .00649 | 1.3077 | -.00064 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -.02000 | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00739** | **-.00278** | **.27052** | **.26537** | **.00338** | **1.5401** | **3.2959** | **.04156** | **.00481** | **.01461** |
| Stddev | .00043 | .00117 | .00286 | .00423 | .00006 | .0063 | .0135 | .00000 | .00004 | .00048 |
| %RSD | 5.7943 | 41.968 | 1.0585 | 1.5955 | 1.6390 | .40968 | .40968 | .00738 | .82221 | 3.2938 |
| #1 | .00769 | -.00196 | .27254 | .26237 | .00334 | 1.5357 | 3.2863 | .04156 | .00478 | .01495 |
| #2 | .00709 | -.00361 | .26849 | .26836 | .00342 | 1.5446 | 3.3054 | .04156 | .00483 | .01427 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00648** | **-.00805** | F **-.12421** | **.07675** | **.07017** | **.00218** |
| Stddev | .00033 | .00019 | .02636 | .00041 | .00011 | .00058 |
| %RSD | 5.1606 | 2.4160 | 21.218 | .53290 | .16235 | 26.439 |
| #1 | .00625 | -.00819 | -.14285 | .07646 | .07009 | .00178 |
| #2 | .00672 | -.00791 | -.10558 | .07704 | .07025 | .00259 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7518.5** | **108290.** | **8828.5** |
| Stddev | 18.9 | 927. | 31.5 |
| %RSD | .25094 | .85633 | .35712 |
| #1 | 7505.2 | 107630. | 8850.8 |
| #2 | 7531.8 | 108940. | 8806.2 |

Sample Name: 280-45178-a-1-bSD@25 Acquired: 8/15/2013 21:49:07 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.10324** | **.01717** | **.00864** | **.00063** | **-.00002** | **.00237** | **.35134** | **.00144** | **.00044** |
| Stddev | .00078 | .00055 | .00461 | .00082 | .00047 | .00011 | .00037 | .00010 | .00017 | .00049 |
| %RSD | 140.63 | .53714 | 26.835 | 9.4651 | 74.806 | 742.32 | 15.793 | .02831 | 11.473 | 112.15 |
| #1 | .00110 | .10285 | .02043 | .00806 | .00030 | -.00009 | .00210 | .35141 | .00133 | .00079 |
| #2 | .00000 | .10363 | .01391 | .00922 | .00096 | .00006 | .00263 | .35127 | .00156 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **19.088** | **.00135** | **3.6477** | **7.5828** | **-.00099** | **.02471** | **.00075** | **.00099** | **.32377** | **-.00015** |
| Stddev | .026 | .00040 | .0012 | .0387 | .00258 | .00171 | .00001 | .00007 | .00328 | .00037 |
| %RSD | .13378 | 29.349 | .03254 | .51063 | 259.62 | 6.9322 | 1.5489 | 7.5069 | 1.0134 | 241.12 |
| #1 | 19.106 | .00107 | 3.6469 | 7.5555 | .00083 | .02350 | .00076 | .00094 | .32609 | .00011 |
| #2 | 19.070 | .00163 | 3.6486 | 7.6102 | -.00282 | .02592 | .00075 | .00104 | .32145 | -.00042 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | | | | | |
| Low Limit | -.01000 | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00118** | **-.00179** | **.05513** | **.01630** | **-.00213** | **.30269** | **.64776** | **.00657** | **.00109** | **.00311** |
| Stddev | .00112 | .00039 | .00068 | .00005 | .00316 | .00307 | .00658 | .00017 | .00027 | .00197 |
| %RSD | 94.823 | 21.875 | 1.2339 | .28758 | 148.06 | 1.0151 | 1.0151 | 2.6399 | 24.372 | 63.558 |
| #1 | .00039 | -.00152 | .05465 | .01633 | .00010 | .30052 | .64311 | .00669 | .00128 | .00450 |
| #2 | .00198 | -.00207 | .05561 | .01627 | -.00436 | .30486 | .65241 | .00645 | .00090 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00133** | **-.00118** | W **-.05728** | **.01274** | **.01662** | **.00360** |
| Stddev | .00033 | .00157 | .00124 | .00043 | .00024 | .00055 |
| %RSD | 24.887 | 132.16 | 2.1629 | 3.3689 | 1.4319 | 15.346 |
| #1 | .00157 | -.00008 | -.05816 | .01305 | .01645 | .00399 |
| #2 | .00110 | -.00229 | -.05641 | .01244 | .01679 | .00321 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8633.7** | **111180.** | **8922.6** |
| Stddev | 17.1 | 135. | 20.1 |
| %RSD | .19754 | .12132 | .22474 |
| #1 | 8621.7 | 111090. | 8908.4 |
| #2 | 8645.8 | 111280. | 8936.8 |

Sample Name: 45178-a-1-c ms@5 Acquired: 8/15/2013 21:51:23 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .04103 | .42951 | .16761 | .08224 | .45431 | .00179 | F .10647 | 3.4056 | .05396 | .02194 |
| Stddev | .00029 | .00038 | .00229 | .00066 | .00211 | .00007 | .00004 | .0258 | .00035 | .00012 |
| %RSD | .69544 | .08793 | 1.3663 | .79922 | .46496 | 3.8765 | .03845 | .75646 | .64584 | .54209 |
| #1 | .04123 | .42924 | .16923 | .08177 | .45281 | .00174 | .10650 | 3.3873 | .05371 | .02203 |
| #2 | .04083 | .42978 | .16599 | .08270 | .45580 | .00184 | .10645 | 3.4238 | .05421 | .02186 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 90.386 | .06688 | 16.085 | 35.799 | .03551 | 1.8484 | .01963 | .04750 | 2.9950 | .01970 |
| Stddev | .222 | .00050 | .055 | .153 | .00124 | .0037 | .00006 | .00043 | .0254 | .00030 |
| %RSD | .24565 | .74050 | .34420 | .42803 | 3.4917 | .20292 | .30994 | .89585 | .84659 | 1.5363 |
| #1 | 90.229 | .06723 | 16.046 | 35.691 | .03463 | 1.8457 | .01959 | .04720 | 2.9770 | .01948 |
| #2 | 90.543 | .06653 | 16.124 | 35.908 | .03638 | 1.8510 | .01967 | .04780 | 3.0129 | .01991 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -.02000 | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .42578 | .23390 | .24524 | .25427 | .12779 | 1.7507 | 3.7465 | .12070 | .04098 | .04430 |
| Stddev | .00427 | .00048 | .00131 | .00257 | .00074 | .0209 | .0447 | .00024 | .00023 | .00078 |
| %RSD | 1.0028 | .20732 | .53502 | 1.0123 | .58241 | 1.1923 | 1.1923 | .20161 | .55979 | 1.7496 |
| #1 | .42276 | .23355 | .24431 | .25245 | .12726 | 1.7360 | 3.7150 | .12053 | .04082 | .04375 |
| #2 | .42880 | .23424 | .24617 | .25609 | .12832 | 1.7655 | 3.7781 | .12087 | .04114 | .04484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .04036 | .07906 | -.00955 | .08344 | .15108 | .01981 |
| Stddev | .00012 | .00095 | .00024 | .00045 | .00062 | .00045 |
| %RSD | .28830 | 1.1958 | 2.4898 | .53970 | .41346 | 2.2469 |
| #1 | .04028 | .07839 | -.00938 | .08312 | .15063 | .02012 |
| #2 | .04044 | .07973 | -.00971 | .08376 | .15152 | .01949 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 7680.4 | 108670. | 8942.1 |
| Stddev | 17.1 | 408. | 25.0 |
| %RSD | .22248 | .37534 | .27984 |
| #1 | 7692.4 | 108960. | 8924.5 |
| #2 | 7668.3 | 108380. | 8959.8 |

Sample Name: 45178-a-1-d msd@5 Acquired: 8/15/2013 21:53:43 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03912** | **.43566** | **.17098** | **.07902** | **.45317** | **.00172** | F **.10033** | **3.3290** | **.05167** | **.02139** |
| Stddev | .00057 | .00052 | .00691 | .00074 | .00129 | .00012 | .00199 | .0424 | .00027 | .00041 |
| %RSD | 1.4448 | .11975 | 4.0419 | .93182 | .28361 | 7.1711 | 1.9799 | 1.2737 | .51582 | 1.9274 |
| #1 | .03872 | .43603 | .17587 | .07850 | .45226 | .00181 | .09892 | 3.2990 | .05148 | .02110 |
| #2 | .03952 | .43529 | .16609 | .07954 | .45408 | .00163 | .10173 | 3.3590 | .05186 | .02168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **87.871** | **.06572** | **15.862** | **34.965** | **.03438** | **1.8056** | **.02001** | **.04636** | **2.9174** | **.01946** |
| Stddev | .268 | .00027 | .084 | .205 | .00095 | .0014 | .00004 | .00024 | .0185 | .00005 |
| %RSD | .30443 | .40666 | .53138 | .58530 | 2.7735 | .07461 | .22110 | .51461 | .63533 | .27980 |
| #1 | 88.060 | .06553 | 15.803 | 34.820 | .03371 | 1.8065 | .02004 | .04619 | 2.9043 | .01942 |
| #2 | 87.682 | .06591 | 15.922 | 35.109 | .03506 | 1.8046 | .01998 | .04653 | 2.9305 | .01950 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -.02000 | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.41386** | **.22921** | **.23540** | **.24029** | **.12408** | **1.6946** | **3.6265** | **.11737** | **.04004** | **.04205** |
| Stddev | .00082 | .00025 | .00495 | .01576 | .00216 | .0055 | .0117 | .00132 | .00025 | .00025 |
| %RSD | .19709 | .10988 | 2.1025 | 6.5600 | 1.7375 | .32193 | .32193 | 1.1218 | .61518 | .59126 |
| #1 | .41328 | .22904 | .23190 | .22914 | .12255 | 1.6985 | 3.6348 | .11644 | .03987 | .04188 |
| #2 | .41443 | .22939 | .23890 | .25143 | .12560 | 1.6908 | 3.6183 | .11830 | .04022 | .04223 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03955** | **.07516** | **.01171** | **.08307** | **.14690** | **.02096** |
| Stddev | .00038 | .00012 | .04048 | .00214 | .00043 | .00221 |
| %RSD | .96746 | .15374 | 345.61 | 2.5726 | .29021 | 10.541 |
| #1 | .03982 | .07524 | -.01691 | .08458 | .14660 | .02252 |
| #2 | .03928 | .07508 | .04034 | .08156 | .14721 | .01939 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7666.6** | **108740.** | **8855.9** |
| Stddev | 1.7 | 473. | 51.3 |
| %RSD | .02279 | .43481 | .57959 |
| #1 | 7665.4 | 109080. | 8892.2 |
| #2 | 7667.8 | 108410. | 8819.6 |

Sample Name: 45178-a-1-bPDS@5 Acquired: 8/15/2013 21:56:03 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 186939 TCLP 6010B A4

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04946** | **1.4479** | **.24665** | **.16192** | **.10558** | **.04857** | **.01326** | **21.443** | **.06675** | **.05904** |
| Stddev | .00038 | .0017 | .00680 | .00017 | .00003 | .00013 | .00483 | .045 | .00031 | .00013 |
| %RSD | .76127 | .12031 | 2.7588 | .10657 | .02390 | .26645 | 36.399 | .21213 | .45977 | .21790 |
| #1 | .04919 | 1.4467 | .25146 | .16204 | .10557 | .04848 | .01667 | 21.475 | .06697 | .05914 |
| #2 | .04972 | 1.4492 | .24184 | .16180 | .10560 | .04866 | .00984 | 21.411 | .06654 | .05895 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **98.319** | **.05765** | **18.846** | **57.570** | **.09887** | **18.885** | **.04969** | **.06711** | **21.803** | **.05645** |
| Stddev | .293 | .00007 | .051 | .019 | .00040 | .011 | .00005 | .00023 | .141 | .00010 |
| %RSD | .29772 | .11554 | .26905 | .03333 | .40653 | .05852 | .09963 | .34380 | .64759 | .18359 |
| #1 | 98.526 | .05770 | 18.882 | 57.583 | .09859 | 18.877 | .04965 | .06695 | 21.703 | .05653 |
| #2 | 98.112 | .05760 | 18.810 | 57.556 | .09915 | 18.893 | .04972 | .06728 | 21.903 | .05638 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 50.000 | | | | | | | | | |
| Low Limit | -.02000 | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3281** | **.11309** | **.26418** | **.37295** | **.22166** | **6.7099** | **14.359** | **.16202** | **.05469** | **.19648** |
| Stddev | .0032 | .00013 | .00511 | .00835 | .00419 | .0197 | .042 | .00072 | .00006 | .00032 |
| %RSD | .13838 | .11219 | 1.9361 | 2.2396 | 1.8883 | .29290 | .29290 | .44397 | .10105 | .16160 |
| #1 | 2.3258 | .11300 | .26780 | .36704 | .21870 | 6.7238 | 14.389 | .16151 | .05465 | .19625 |
| #2 | 2.3304 | .11318 | .26057 | .37885 | .22462 | 6.6960 | 14.330 | .16253 | .05473 | .19670 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05636** | **.21306** | **.42563** | **.12786** | **.26268** | **.05695** |
| Stddev | .00009 | .00019 | .00549 | .00127 | .00037 | .00076 |
| %RSD | .16740 | .09138 | 1.2888 | .99449 | .14110 | 1.3344 |
| #1 | .05630 | .21320 | .42175 | .12876 | .26294 | .05748 |
| #2 | .05643 | .21292 | .42951 | .12696 | .26241 | .05641 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7415.6** | **106700.** | **8829.4** |
| Stddev | 20.9 | 102. | 58.1 |
| %RSD | .28211 | .09522 | .65836 |
| #1 | 7430.4 | 106630. | 8788.3 |
| #2 | 7400.8 | 106780. | 8870.5 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 21:58:18 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **51.218** | **.00424** | **.00178** | **.00074** | **.00003** | W **1.0773** | **-.00844** | **.00001** | **.00009** | **.01014** | **.00506** |
| Stddev | .00056 | .244 | .00087 | .00021 | .00003 | .00004 | .0022 | .00015 | .00022 | .00001 | .00320 | .00009 |
| %RSD | 73.510 | .47733 | 20.463 | 11.817 | 4.2770 | 141.36 | .20599 | 1.7942 | 2109.7 | 15.717 | 31.548 | 1.7993 |
| #1 | .00115 | 51.391 | .00363 | .00193 | .00077 | .00005 | 1.0789 | -.00833 | -.00014 | .00008 | .00788 | .00499 |
| #2 | .00036 | 51.045 | .00485 | .00164 | .00072 | .00000 | 1.0757 | -.00855 | .00016 | .00010 | .01240 | .00512 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.747** | **.15645** | **.00088** | **-.00319** | **.00007** | **.00033** | **261.81** | **.00096** | **.00191** | **.00006** | **5.1304** | **.00107** |
| Stddev | .099 | .03568 | .00012 | .00824 | .00002 | .00027 | .25 | .00010 | .00154 | .00108 | .0215 | .00021 |
| %RSD | .19134 | 22.808 | 13.548 | 258.08 | 29.894 | 81.150 | .09467 | 10.345 | 80.601 | 1835.4 | .41911 | 19.743 |
| #1 | 51.677 | .13122 | .00080 | .00263 | .00009 | .00052 | 261.99 | .00103 | .00082 | .00082 | 5.1152 | .00092 |
| #2 | 51.817 | .18168 | .00097 | -.00902 | .00006 | .00014 | 261.64 | .00089 | .00299 | -.00071 | 5.1456 | .00122 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00417** | **.01832** | **.03921** | **-.00026** | **.00049** | **4.8659** | **-.00116** | **.00109** | W **10.580** | **.00060** | **.00019** | **.04074** |
| Stddev | .00229 | .00540 | .01156 | .00053 | .00021 | .0095 | .00009 | .00004 | .057 | .00048 | .00019 | .00375 |
| %RSD | 54.900 | 29.475 | 29.475 | 202.60 | 42.979 | .19572 | 8.0694 | 3.6510 | .54076 | 80.471 | 99.764 | 9.2041 |
| #1 | -.00255 | .01450 | .03104 | -.00064 | .00034 | 4.8726 | -.00123 | .00106 | 10.540 | .00094 | .00006 | .03808 |
| #2 | -.00578 | .02214 | .04738 | .00011 | .00064 | 4.8591 | -.00110 | .00112 | 10.621 | .00026 | .00032 | .04339 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Warn | None | None | None |
| Value | | | | | | | | | 10.000 | | | |
| Range | | | | | | | | | 5.0000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8528.4** | **105100.** | **8740.1** |
| Stddev | 44.3 | 270. | 69.1 |
| %RSD | .51975 | .25710 | .79116 |
| #1 | 8497.0 | 104910. | 8691.2 |
| #2 | 8559.7 | 105300. | 8789.0 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 22:00:39 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50417** | **.50521** | **1.0304** | **.52517** | **.52473** | **.50470** | **.00404** | **5.1178** | **.51691** | **.50891** | **.51594** | **.50527** | **2.6011** |
| Stddev | .00022 | .00194 | .0014 | .00053 | .00306 | .00170 | .00074 | .0219 | .00109 | .00022 | .00173 | .00042 | .0076 |
| %RSD | .04383 | .38487 | .13385 | .10158 | .58364 | .33773 | 18.194 | .42756 | .21037 | .04237 | .33595 | .08340 | .29301 |
| #1 | .50433 | .50384 | 1.0294 | .52479 | .52257 | .50349 | .00456 | 5.1023 | .51614 | .50876 | .51472 | .50557 | 2.5957 |
| #2 | .50402 | .50659 | 1.0314 | .52554 | .52690 | .50590 | .00352 | 5.1333 | .51768 | .50906 | .51717 | .50497 | 2.6065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.787** | **.97952** | **19.802** | **.49315** | **.52146** | **5.2013** | **.51753** | **1.0423** | **1.0349** | **.00252** | **1.0213** | **1.0358** | **5.1216** |
| Stddev | .350 | .00222 | .045 | .00039 | .00008 | .0105 | .00075 | .0032 | .0008 | .00268 | .0006 | .0011 | .0243 |
| %RSD | .68823 | .22685 | .22582 | .07975 | .01568 | .20269 | .14495 | .31178 | .07825 | 106.02 | .05861 | .10883 | .47524 |
| #1 | 50.540 | .97795 | 19.833 | .49342 | .52140 | 5.1938 | .51700 | 1.0401 | 1.0355 | .00063 | 1.0218 | 1.0350 | 5.1044 |
| #2 | 51.035 | .98109 | 19.770 | .49287 | .52152 | 5.2087 | .51806 | 1.0446 | 1.0343 | .00442 | 1.0209 | 1.0366 | 5.1389 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.960** | **1.0483** | **.50326** | **-.00534** | **.49200** | **1.0355** | **-.01662** | **.50526** | **.50086** | **.50890** |
| Stddev | .052 | .0035 | .00171 | .00105 | .00054 | .0022 | .01877 | .00010 | .00019 | .00024 |
| %RSD | .47524 | .33114 | .33895 | 19.720 | .11017 | .21432 | 112.89 | .02031 | .03841 | .04755 |
| #1 | 10.923 | 1.0508 | .50206 | -.00608 | .49162 | 1.0371 | -.00335 | .50519 | .50099 | .50907 |
| #2 | 10.997 | 1.0459 | .50447 | -.00459 | .49239 | 1.0339 | -.02989 | .50534 | .50072 | .50873 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8776.2** | **109240.** | **8974.7** |
| Stddev | 7.6 | 61. | 49.4 |
| %RSD | .08660 | .05606 | .55065 |
| #1 | 8781.5 | 109200. | 9009.6 |
| #2 | 8770.8 | 109290. | 8939.7 |

Sample Name: CCB  Acquired: 8/15/2013 22:02:45  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **.00003** | **.00160** | **.00131** | **-.00017** | **.00008** | **.00557** | **.00051** | **.00007** | **.00007** | W **.00097** | **.00019** |
| Stddev | .00011 | .00000 | .00005 | .00005 | .00004 | .00005 | .00226 | .00019 | .00005 | .00009 | .00016 | .00017 |
| %RSD | 57.479 | 16.651 | 2.8915 | 4.1646 | 20.998 | 68.250 | 40.543 | 37.947 | 69.152 | 127.53 | 16.541 | 88.165 |
| #1 | -.00012 | .00002 | .00163 | .00127 | -.00019 | .00004 | .00717 | .00065 | .00003 | .00001 | .00085 | .00030 |
| #2 | -.00028 | .00003 | .00156 | .00135 | -.00014 | .00012 | .00398 | .00037 | .00010 | .00013 | .00108 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | | | .00093 | |
| Low Limit | | | | | | | | | | | -.00093 | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00110** | **.08814** | **.00029** | **.00179** | **.00010** | **.00057** | W **.10379** | **.00033** | **.00109** | **-.00022** | **.00160** | W **.00396** |
| Stddev | .00069 | .00323 | .00032 | .00099 | .00001 | .00034 | .00448 | .00007 | .00060 | .00039 | .00100 | .00101 |
| %RSD | 62.853 | 3.6641 | 110.89 | 55.282 | 6.7679 | 59.287 | 4.3128 | 19.747 | 55.297 | 176.26 | 62.797 | 25.565 |
| #1 | -.00061 | .09042 | .00052 | .00249 | .00010 | .00033 | .10695 | .00028 | .00066 | -.00049 | .00089 | .00325 |
| #2 | -.00159 | .08585 | .00006 | .00109 | .00011 | .00081 | .10062 | .00038 | .00151 | .00005 | .00231 | .00468 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **.00334** | **.00716** | **-.00105** | **.00005** | **.00059** | **.00057** | **.00150** | **-.01434** | **-.00050** | **.00106** | W **.00427** |
| Stddev | .00095 | .00269 | .00575 | .00092 | .00005 | .00204 | .00012 | .00109 | .06969 | .00023 | .00015 | .00013 |
| %RSD | 70.485 | 80.301 | 80.301 | 87.350 | 92.626 | 344.58 | 21.935 | 72.971 | 486.10 | 45.680 | 14.560 | 3.0894 |
| #1 | .00203 | .00145 | .00309 | -.00170 | .00002 | -.00085 | .00048 | .00227 | .03494 | -.00034 | .00095 | .00436 |
| #2 | .00068 | .00524 | .01122 | -.00040 | .00008 | .00203 | .00066 | .00072 | -.06361 | -.00066 | .00117 | .00418 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8853.7** | **111930.** | **8860.9** |
| Stddev | 5.6 | 856. | 5.6 |
| %RSD | .06294 | .76508 | .06305 |
| #1 | 8849.8 | 112530. | 8856.9 |
| #2 | 8857.7 | 111320. | 8864.8 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 22:05:00 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01018** | **.10512** | **.01535** | **.09906** | **.01053** | **.00095** | **.11857** | **.21373** | **.00532** | **.01064** | **.01226** | **.01512** | **.10570** |
| Stddev | .00052 | .00010 | .00126 | .00085 | .00020 | .00005 | .00189 | .00196 | .00005 | .00005 | .00021 | .00054 | .00174 |
| %RSD | 5.0940 | .09628 | 8.2303 | .85670 | 1.8631 | 4.9316 | 1.5924 | .91750 | 1.0228 | .45675 | 1.6848 | 3.5593 | 1.6504 |
| #1 | .00981 | .10504 | .01445 | .09966 | .01039 | .00091 | .11724 | .21512 | .00536 | .01067 | .01211 | .01473 | .10447 |
| #2 | .01054 | .10519 | .01624 | .09846 | .01067 | .00098 | .11991 | .21235 | .00528 | .01060 | .01240 | .01550 | .10694 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2173** | **.01120** | **.20309** | **.01014** | **.02074** | **1.1477** | **.04284** | **2.9801** | **.00942** | **-.00027** | **.00857** | **.01746** | **.51911** |
| Stddev | .0368 | .00148 | .00080 | .00002 | .00008 | .0117 | .00012 | .0011 | .00009 | .00034 | .00030 | .00229 | .00653 |
| %RSD | 1.1442 | 13.191 | .39545 | .24031 | .38842 | 1.0211 | .27044 | .03719 | .97271 | 129.87 | 3.5064 | 13.101 | 1.2585 |
| #1 | 3.1913 | .01015 | .20365 | .01016 | .02080 | 1.1394 | .04292 | 2.9793 | .00935 | -.00051 | .00836 | .01584 | .51449 |
| #2 | 3.2434 | .01224 | .20252 | .01012 | .02069 | 1.1560 | .04276 | 2.9809 | .00948 | -.00002 | .00878 | .01907 | .52373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.1109** | **.10466** | **.01037** | **.01356** | **.01030** | **.01598** | **.06709** | **.00941** | **.02048** | F **.02009** |
| Stddev | .0140 | .00088 | .00004 | .00089 | .00031 | .00022 | .04960 | .00028 | .00048 | .00025 |
| %RSD | 1.2585 | .83932 | .42428 | 6.5307 | 2.9649 | 1.4019 | 73.934 | 3.0257 | 2.3390 | 1.2637 |
| #1 | 1.1010 | .10404 | .01034 | .01419 | .01008 | .01614 | .03201 | .00921 | .02082 | .02027 |
| #2 | 1.1208 | .10528 | .01040 | .01293 | .01052 | .01583 | .10216 | .00961 | .02014 | .01991 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8820.5** | **111220.** | **8865.2** |
| Stddev | 41.3 | 334. | 72.7 |
| %RSD | .46781 | .30026 | .82049 |
| #1 | 8849.7 | 110990. | 8916.6 |
| #2 | 8791.3 | 111460. | 8813.8 |

Sample Name: mb 280-186614/1-b  Acquired: 8/15/2013 22:07:16  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **.00157** | **.00065** | **.00070** | **-.00004** | **.00003** | **.00569** | **.00493** | **.00006** | **-.00001** |
| Stddev | .00118 | .00017 | .00122 | .00023 | .00011 | .00002 | .00223 | .00024 | .00021 | .00002 |
| %RSD | 161.81 | 10.835 | 188.33 | 32.500 | 303.86 | 51.970 | 39.240 | 4.8191 | 365.41 | 214.04 |
| #1 | .00157 | .00169 | .00152 | .00086 | -.00011 | .00004 | .00727 | .00510 | .00021 | .00000 |
| #2 | -.00011 | .00145 | -.00022 | .00054 | .00004 | .00002 | .00411 | .00476 | -.00009 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00066** | **.00277** | **.07448** | **.00140** | **.00304** | **.00010** | **.00017** | W **.08065** | **.00011** |
| Stddev | .00009 | .00001 | .00022 | .02793 | .00081 | .00012 | .00007 | .00002 | .00059 | .00002 |
| %RSD | 14.189 | 1.7148 | 7.8591 | 37.495 | 58.215 | 3.8850 | 65.857 | 12.272 | .73038 | 18.553 |
| #1 | .00072 | .00067 | .00261 | .09423 | .00082 | .00296 | .00005 | .00015 | .08023 | .00010 |
| #2 | .00059 | .00065 | .00292 | .05473 | .00197 | .00312 | .00015 | .00018 | .08106 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | .05054 | |
| Low Limit | | | | | | | | | -.50000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00130** | **-.00135** | **.00184** | **-.00195** | **.00321** | F **.02329** | **.04983** | **-.00079** | **.00004** | W **.00081** |
| Stddev | .00067 | .00027 | .00000 | .00021 | .00279 | .00825 | .01765 | .00022 | .00005 | .00014 |
| %RSD | 51.913 | 20.160 | .06557 | 10.701 | 86.793 | 35.423 | 35.423 | 27.490 | 119.15 | 16.829 |
| #1 | .00082 | -.00154 | .00184 | -.00209 | .00518 | .01745 | .03735 | -.00095 | .00001 | .00091 |
| #2 | .00177 | -.00115 | .00183 | -.00180 | .00124 | .02912 | .06232 | -.00064 | .00008 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | .01000 | | | | .00000 |
| Low Limit | | | | | | -.01000 | | | | -.00500 |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.00065** | **-.03287** | **-.00065** | **.00272** | **.00335** |
| Stddev | .00005 | .00106 | .00198 | .00011 | .00016 | .00174 |
| %RSD | 36.504 | 163.14 | 6.0280 | 16.393 | 5.7801 | 51.921 |
| #1 | .00009 | -.00010 | -.03147 | -.00058 | .00261 | .00212 |
| #2 | .00016 | .00141 | -.03427 | -.00073 | .00284 | .00458 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8910.4** | **112380.** | **8969.5** |
| Stddev | 10.5 | 134. | 43.0 |
| %RSD | .11780 | .11931 | .47996 |
| #1 | 8903.0 | 112290. | 8939.1 |
| #2 | 8917.8 | 112480. | 9000.0 |

Sample Name: lcs 280-186614/2-b  Acquired: 8/15/2013 22:09:33  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05156** | **1.9921** | **1.0881** | **1.0548** | **2.1887** | **.05231** | **2.2691** | **52.605** | F **.11321** | **.51619** |
| Stddev | .00065 | .0003 | .0009 | .0030 | .0094 | .00043 | .0050 | .343 | .00037 | .00092 |
| %RSD | 1.2561 | .01298 | .07882 | .28385 | .42817 | .82404 | .22170 | .65193 | .32696 | .17835 |
| #1 | .05110 | 1.9923 | 1.0887 | 1.0527 | 2.1821 | .05200 | 2.2727 | 52.363 | .11295 | .51554 |
| #2 | .05201 | 1.9919 | 1.0875 | 1.0569 | 2.1954 | .05261 | 2.2656 | 52.848 | .11347 | .51684 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Fail | Chk Pass |
| High Limit | | | | | | | | | .11100 | |
| Low Limit | | | | | | | | | .08800 | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21461** | **.26425** | **1.0735** | **53.165** | **1.0163** | **50.843** | **.50505** | **1.0588** | **54.338** | **.52381** |
| Stddev | .00010 | .00100 | .0061 | .414 | .0076 | .041 | .00089 | .0015 | .030 | .00147 |
| %RSD | .04652 | .37917 | .56868 | .77875 | .75275 | .07965 | .17629 | .14591 | .05515 | .28062 |
| #1 | .21454 | .26496 | 1.0692 | 52.873 | 1.0108 | 50.814 | .50568 | 1.0577 | 54.316 | .52277 |
| #2 | .21468 | .26354 | 1.0779 | 53.458 | 1.0217 | 50.871 | .50442 | 1.0599 | 54.359 | .52485 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.014** | **.52775** | **-.00936** | **.49545** | **2.1268** | **10.330** | **22.107** | **2.0922** | **1.0545** | **.98773** |
| Stddev | .036 | .00158 | .00013 | .00123 | .0049 | .087 | .186 | .0023 | .0069 | .00039 |
| %RSD | .32727 | .29878 | 1.4333 | .24857 | .23044 | .83952 | .83952 | .10878 | .65065 | .03998 |
| #1 | 10.988 | .52664 | -.00927 | .49458 | 2.1234 | 10.269 | 21.976 | 2.0906 | 1.0497 | .98801 |
| #2 | 11.039 | .52887 | -.00946 | .49632 | 2.1303 | 10.392 | 22.238 | 2.0939 | 1.0594 | .98746 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0007** | **2.0487** | **2.2429** | **.53096** | **.50845** | **.52499** |
| Stddev | .0011 | .0032 | .0330 | .00026 | .00055 | .00541 |
| %RSD | .11242 | .15651 | 1.4719 | .04932 | .10896 | 1.0313 |
| #1 | 1.0015 | 2.0465 | 2.2663 | .53077 | .50806 | .52116 |
| #2 | .99993 | 2.0510 | 2.2196 | .53114 | .50884 | .52882 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8558.4** | **107440.** | **8955.1** |
| Stddev | 24.0 | 769. | 1.1 |
| %RSD | .28065 | .71560 | .01233 |
| #1 | 8575.4 | 107990. | 8954.3 |
| #2 | 8541.4 | 106900. | 8955.9 |

Sample Name: 280-45273-c-1-b  Acquired: 8/15/2013 22:11:40  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.06977** | **.02056** | **.01867** | **.00009** | **.00002** | **.04819** | **.02338** | **.00221** | **.00995** |
| Stddev | .00044 | .03306 | .01543 | .01525 | .00175 | .00007 | .03225 | .03452 | .00163 | .00825 |
| %RSD | 293.50 | 47.380 | 75.034 | 81.650 | 1908.7 | 470.52 | 66.915 | 147.66 | 73.955 | 82.979 |
| #1 | .00046 | .04640 | .00965 | .00789 | -.00115 | -.00004 | .02539 | -.00103 | .00105 | .00411 |
| #2 | -.00016 | .09315 | .03147 | .02945 | .00133 | .00007 | .07099 | .04779 | .00336 | .01578 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00665** | **-.00437** | **-.00094** | **.10011** | **.00477** | **.05018** | **.00051** | **.01892** | **.08230** | **.01049** |
| Stddev | .00381 | .00061 | .00011 | .02341 | .00260 | .06412 | .00063 | .01579 | .02173 | .00831 |
| %RSD | 57.298 | 14.061 | 11.216 | 23.379 | 54.543 | 127.76 | 122.58 | 83.484 | 26.399 | 79.266 |
| #1 | .00395 | -.00393 | -.00101 | .08356 | .00293 | .09552 | .00096 | .00775 | .06694 | .00461 |
| #2 | .00934 | -.00480 | -.00087 | .11666 | .00661 | .00485 | .00007 | .03008 | .09767 | .01637 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19253** | **.00854** | **.00265** | **.00336** | **.03522** | **.00568** | **.01215** | **.03750** | **.00064** | **.00922** |
| Stddev | .15866 | .00827 | .00093 | .00692 | .03128 | .00229 | .00491 | .03260 | .00070 | .00225 |
| %RSD | 82.407 | 96.769 | 35.027 | 206.03 | 88.805 | 40.403 | 40.403 | 86.923 | 109.57 | 24.429 |
| #1 | .08034 | .00270 | .00331 | -.00153 | .01310 | .00405 | .00868 | .01445 | .00014 | .01081 |
| #2 | .30472 | .01439 | .00199 | .00825 | .05733 | .00730 | .01562 | .06055 | .00114 | .00763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00362** | **.03923** | **-.02722** | **-.00052** | **.00056** | **.00625** |
| Stddev | .00396 | .03215 | .04374 | .00059 | .00099 | .00039 |
| %RSD | 109.33 | 81.957 | 160.66 | 111.87 | 175.13 | 6.2685 |
| #1 | .00642 | .01650 | -.05815 | -.00011 | .00126 | .00597 |
| #2 | .00082 | .06196 | .00370 | -.00094 | -.00013 | .00652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **15741.** | **180100.** | **16282.** |
| Stddev | 132. | 10536. | 281. |
| %RSD | .83656 | 5.8503 | 1.7276 |
| #1 | 15834. | 172650. | 16083. |
| #2 | 15648. | 187550. | 16481. |

Sample Name: 280-45273-b-2-c  Acquired: 8/15/2013 22:13:54  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00008** | **.00516** | **.00097** | **.10534** | **.06198** | **.00000** | **.00203** | **133.37** | **.00042** | **-.00022** |
| Stddev | .00036 | .00011 | .00102 | .00046 | .00026 | .00002 | .00123 | .26 | .00018 | .00018 |
| %RSD | 451.55 | 2.2159 | 105.40 | .43660 | .42607 | 532.65 | 60.588 | .19402 | 42.806 | 82.272 |
| #1 | .00018 | .00508 | .00169 | .10566 | .06217 | .00002 | .00116 | 133.55 | .00029 | -.00009 |
| #2 | -.00034 | .00524 | .00025 | .10501 | .06179 | -.00001 | .00290 | 133.18 | .00054 | -.00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00054** | **.00205** | **.00315** | **1.8751** | **.02059** | **13.120** | **.00114** | **.00438** | **135.58** | **.00042** |
| Stddev | .00014 | .00019 | .00187 | .0134 | .00039 | .005 | .00002 | .00055 | .42 | .00009 |
| %RSD | 25.822 | 9.4873 | 59.415 | .71549 | 1.8829 | .03828 | 1.4544 | 12.584 | .30918 | 21.921 |
| #1 | .00045 | .00219 | .00447 | 1.8657 | .02087 | 13.117 | .00115 | .00399 | 135.88 | .00036 |
| #2 | .00064 | .00191 | .00183 | 1.8846 | .02032 | 13.124 | .00113 | .00477 | 135.29 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06991** | **-.00231** | **35.749** | **-.00603** | **.00154** | **15.006** | **32.114** | **-.00090** | **.62179** | **.00128** |
| Stddev | .00044 | .00043 | .002 | .00050 | .00256 | .012 | .026 | .00041 | .00237 | .00030 |
| %RSD | .62302 | 18.680 | .00683 | 8.2753 | 165.98 | .08115 | .08115 | 45.093 | .38135 | 23.373 |
| #1 | .06960 | -.00200 | 35.748 | -.00638 | .00336 | 14.998 | 32.095 | -.00061 | .62346 | .00106 |
| #2 | .07021 | -.00261 | 35.751 | -.00567 | -.00027 | 15.015 | 32.132 | -.00119 | .62011 | .00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00160** | **-.00962** | **.00403** | **.01919** | **.00392** |
| Stddev | .00009 | .00030 | .03232 | .00009 | .00000 | .00105 |
| %RSD | 202.24 | 18.874 | 335.87 | 2.3016 | .00824 | 26.827 |
| #1 | -.00002 | .00181 | -.03247 | .00409 | .01919 | .00318 |
| #2 | .00011 | .00138 | .01323 | .00396 | .01919 | .00466 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8440.1** | **105620.** | **8903.6** |
| Stddev | 7.1 | 227. | 10.9 |
| %RSD | .08465 | .21537 | .12281 |
| #1 | 8435.1 | 105780. | 8895.9 |
| #2 | 8445.2 | 105460. | 8911.3 |

Sample Name: 280-45273-b-2-cSD@5 Acquired: 8/15/2013 22:16:13 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00842** | **.00037** | **.02144** | **.01230** | **-.00002** | **.00155** | **26.759** | **.00010** | **.00016** |
| Stddev | .00034 | .00029 | .00229 | .00022 | .00007 | .00005 | .00094 | .090 | .00016 | .00006 |
| %RSD | 109.29 | 3.4782 | 616.70 | 1.0366 | .56179 | 208.65 | 60.442 | .33539 | 158.84 | 35.694 |
| #1 | .00007 | .00822 | .00199 | .02160 | .01225 | .00001 | .00089 | 26.822 | .00021 | .00020 |
| #2 | .00054 | .00863 | -.00125 | .02128 | .01235 | -.00005 | .00221 | 26.695 | -.00001 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00055** | **.01504** | **.43031** | **.00561** | **2.6806** | **.00048** | **.00098** | **27.537** | **.00022** |
| Stddev | .00014 | .00049 | .00245 | .03754 | .00270 | .0032 | .00003 | .00023 | .274 | .00005 |
| %RSD | 40.506 | 88.721 | 16.258 | 8.7243 | 48.147 | .12139 | 7.2452 | 23.628 | .99426 | 23.666 |
| #1 | .00025 | .00089 | .01331 | .45685 | .00370 | 2.6783 | .00051 | .00082 | 27.343 | .00018 |
| #2 | .00045 | .00020 | .01677 | .40376 | .00752 | 2.6829 | .00046 | .00115 | 27.731 | .00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02068** | **-.00058** | **6.9147** | **-.00188** | **.00054** | **2.9298** | **6.2698** | **-.00104** | **.12430** | **.00191** |
| Stddev | .00082 | .00002 | .0191 | .00113 | .00058 | .0141 | .0302 | .00070 | .00023 | .00058 |
| %RSD | 3.9695 | 3.4994 | .27630 | 60.094 | 107.35 | .48217 | .48217 | 67.201 | .18815 | 30.439 |
| #1 | .02126 | -.00057 | 6.9282 | -.00269 | .00096 | 2.9398 | 6.2912 | -.00055 | .12446 | .00232 |
| #2 | .02010 | -.00060 | 6.9011 | -.00108 | .00013 | 2.9198 | 6.2484 | -.00154 | .12413 | .00150 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **-.00030** | **-.04386** | **.00050** | **.00588** | **.00298** |
| Stddev | .00022 | .00016 | .00131 | .00015 | .00036 | .00029 |
| %RSD | 84.048 | 53.621 | 2.9890 | 29.386 | 6.0438 | 9.8618 |
| #1 | .00041 | -.00019 | -.04293 | .00040 | .00614 | .00278 |
| #2 | .00010 | -.00042 | -.04478 | .00061 | .00563 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8723.5** | **109590.** | **8954.2** |
| Stddev | 10.2 | 380. | 111.5 |
| %RSD | .11647 | .34701 | 1.2451 |
| #1 | 8730.7 | 109320. | 8875.4 |
| #2 | 8716.3 | 109850. | 9033.1 |

Sample Name: 280-45273-b-2-d ms  Acquired: 8/15/2013 22:18:31  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05192** | **1.9527** | **1.1025** | **1.1469** | **2.2480** | **.05286** | F **2.2585** | **184.22** | **.11369** | **.50791** |
| Stddev | .00062 | .0030 | .0031 | .0036 | .0073 | .00006 | .0062 | .67 | .00030 | .00114 |
| %RSD | 1.2017 | .15459 | .28268 | .31295 | .32525 | .11372 | .27447 | .36269 | .25965 | .22385 |
| #1 | .05148 | 1.9506 | 1.1003 | 1.1444 | 2.2429 | .05282 | 2.2541 | 183.74 | .11390 | .50710 |
| #2 | .05236 | 1.9549 | 1.1047 | 1.1494 | 2.2532 | .05290 | 2.2629 | 184.69 | .11348 | .50871 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21236** | **.26651** | **1.0670** | **55.732** | **1.0422** | **63.160** | **.50482** | **1.0545** | **189.08** | **.51449** |
| Stddev | .00019 | .00040 | .0111 | .282 | .0023 | .058 | .00097 | .0007 | .15 | .00048 |
| %RSD | .09012 | .14837 | 1.0430 | .50601 | .22190 | .09194 | .19171 | .06719 | .08067 | .09349 |
| #1 | .21223 | .26623 | 1.0591 | 55.533 | 1.0405 | 63.201 | .50551 | 1.0540 | 188.97 | .51415 |
| #2 | .21250 | .26679 | 1.0749 | 55.932 | 1.0438 | 63.119 | .50414 | 1.0550 | 189.18 | .51483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.281** | **.51408** | **35.932** | **.50230** | **2.1435** | **25.420** | **54.398** | W **2.0592** | **1.6783** | **.99963** |
| Stddev | .034 | .00165 | .005 | .00178 | .0034 | .237 | .508 | .0059 | .0053 | .00298 |
| %RSD | .30487 | .32082 | .01384 | .35428 | .15744 | .93420 | .93420 | .28843 | .31758 | .29789 |
| #1 | 11.257 | .51524 | 35.929 | .50104 | 2.1411 | 25.252 | 54.039 | 2.0550 | 1.6745 | 1.0017 |
| #2 | 11.305 | .51291 | 35.936 | .50356 | 2.1459 | 25.588 | 54.757 | 2.0634 | 1.6821 | .99752 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | 2.0000 | | |
| Low Limit | -1.0000 | | | | | | | -.05000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0050** | **1.9531** | **2.2523** | **.53854** | **.52416** | **.51899** |
| Stddev | .0002 | .0009 | .0342 | .00177 | .00212 | .00630 |
| %RSD | .01619 | .04581 | 1.5194 | .32840 | .40456 | 1.2147 |
| #1 | 1.0051 | 1.9525 | 2.2281 | .53729 | .52566 | .51453 |
| #2 | 1.0048 | 1.9537 | 2.2765 | .53979 | .52266 | .52345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8339.6** | **103750.** | **8828.3** |
| Stddev | 33.7 | 54. | 54.2 |
| %RSD | .40415 | .05180 | .61403 |
| #1 | 8363.5 | 103710. | 8866.6 |
| #2 | 8315.8 | 103790. | 8789.9 |

Sample Name: 280-45273-b-2-e msd  Acquired: 8/15/2013 22:20:37  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05189** | **1.9523** | **1.0941** | **1.1447** | **2.2394** | **.05258** | F **2.2362** | **182.82** | **.11327** | **.50568** |
| Stddev | .00025 | .0019 | .0025 | .0012 | .0035 | .00002 | .0000 | 3.04 | .00057 | .00073 |
| %RSD | .49057 | .09593 | .22856 | .10813 | .15680 | .02886 | .00177 | 1.6625 | .50385 | .14364 |
| #1 | .05207 | 1.9510 | 1.0959 | 1.1456 | 2.2419 | .05259 | 2.2362 | 184.97 | .11368 | .50517 |
| #2 | .05171 | 1.9537 | 1.0923 | 1.1439 | 2.2369 | .05257 | 2.2363 | 180.67 | .11287 | .50620 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21066** | **.26544** | **1.0904** | **55.672** | **1.0409** | **62.839** | **.50365** | **1.0489** | **190.01** | **.51107** |
| Stddev | .00005 | .00039 | .0003 | .095 | .0035 | .109 | .00025 | .0004 | .22 | .00014 |
| %RSD | .02372 | .14751 | .03062 | .17144 | .33335 | .17405 | .04987 | .03328 | .11715 | .02722 |
| #1 | .21070 | .26572 | 1.0902 | 55.604 | 1.0433 | 62.916 | .50382 | 1.0491 | 190.17 | .51098 |
| #2 | .21063 | .26517 | 1.0907 | 55.739 | 1.0384 | 62.761 | .50347 | 1.0486 | 189.85 | .51117 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **11.218** | **.50943** | **36.229** | **.50067** | **2.1301** | **25.452** | **54.467** | W **2.0405** | **1.6804** | **.99757** |
| Stddev | .006 | .00171 | .003 | .00040 | .0050 | .030 | .064 | .0043 | .0019 | .00581 |
| %RSD | .05784 | .33652 | .00763 | .07960 | .23227 | .11719 | .11719 | .20845 | .11595 | .58230 |
| #1 | 11.222 | .51064 | 36.231 | .50039 | 2.1336 | 25.473 | 54.512 | 2.0435 | 1.6818 | 1.0017 |
| #2 | 11.213 | .50822 | 36.227 | .50095 | 2.1266 | 25.431 | 54.422 | 2.0375 | 1.6790 | .99346 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | 2.0000 | | |
| Low Limit | -1.0000 | | | | | | | -.05000 | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0064** | **1.9417** | **2.2245** | **.53726** | **.52000** | **.52399** |
| Stddev | .0006 | .0023 | .0073 | .00156 | .00207 | .00321 |
| %RSD | .06307 | .11684 | .32961 | .28971 | .39860 | .61200 |
| #1 | 1.0068 | 1.9401 | 2.2193 | .53836 | .51854 | .52173 |
| #2 | 1.0060 | 1.9433 | 2.2297 | .53615 | .52147 | .52626 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8351.1** | **103520.** | **8901.1** |
| Stddev | 4.4 | 97. | 30.6 |
| %RSD | .05297 | .09357 | .34423 |
| #1 | 8348.0 | 103590. | 8879.5 |
| #2 | 8354.2 | 103450. | 8922.8 |

Sample Name: 280-45273-c-1-b  Acquired: 8/15/2013 22:22:46  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187162 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **.00811** | **.00265** | **.09667** | **.03866** | **.00000** | **.00303** | **145.58** | **.00029** | **-.00025** |
| Stddev | .00025 | .00014 | .00257 | .00072 | .00040 | .0000 | .00172 | .08 | .00013 | .00010 |
| %RSD | 64.381 | 1.7294 | 96.661 | .74526 | 1.0467 | 664.62 | 56.833 | .05287 | 43.428 | 41.075 |
| #1 | .00021 | .00801 | .00447 | .09617 | .03895 | -.00001 | .00424 | 145.53 | .00020 | -.00032 |
| #2 | .00055 | .00821 | .00084 | .09718 | .03838 | .00001 | .00181 | 145.64 | .00038 | -.00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00021** | **.00119** | **.05000** | **1.2746** | **.02197** | **14.209** | **.00887** | **.00448** | **143.97** | **.00075** |
| Stddev | .00009 | .00008 | .00343 | .0671 | .00096 | .019 | .00006 | .00015 | .70 | .00063 |
| %RSD | 40.925 | 7.0741 | 6.8672 | 5.2609 | 4.3601 | .13598 | .67742 | 3.3134 | .48945 | 84.421 |
| #1 | .00027 | .00113 | .05243 | 1.2272 | .02129 | 14.223 | .00891 | .00438 | 143.48 | .00030 |
| #2 | .00015 | .00125 | .04758 | 1.3221 | .02265 | 14.196 | .00882 | .00459 | 144.47 | .00119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05285** | **-.00270** | **34.047** | **-.00461** | **.00386** | **14.526** | **31.087** | **-.00098** | **.67885** | **.00196** |
| Stddev | .00173 | .00001 | .068 | .00263 | .00353 | .072 | .155 | .00046 | .00192 | .00214 |
| %RSD | 3.2822 | .20755 | .20042 | 57.081 | 91.568 | .49805 | .49805 | 46.591 | .28270 | 109.08 |
| #1 | .05408 | -.00270 | 33.999 | -.00275 | .00136 | 14.475 | 30.977 | -.00065 | .67749 | .00045 |
| #2 | .05162 | -.00271 | 34.096 | -.00647 | .00635 | 14.578 | 31.196 | -.00130 | .68021 | .00348 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00184** | **-.03800** | **.00297** | **.04846** | **.00454** |
| Stddev | .00031 | .00033 | .00438 | .00035 | .00045 | .00159 |
| %RSD | 96.493 | 18.041 | 11.516 | 11.853 | .92213 | 35.134 |
| #1 | .00010 | .00208 | -.03490 | .00272 | .04878 | .00567 |
| #2 | .00053 | .00161 | -.04109 | .00322 | .04814 | .00341 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8425.1** | **105630.** | **8860.7** |
| Stddev | 11.7 | 213. | 34.1 |
| %RSD | .13912 | .20174 | .38488 |
| #1 | 8416.8 | 105780. | 8836.6 |
| #2 | 8433.3 | 105470. | 8884.8 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 22:25:02 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **50.901** | **.00270** | **.00302** | **.00065** | **-.00001** | W **1.0548** | **-.00745** | **.00012** | **.00015** | **.00016** | **.00398** |
| Stddev | .00080 | .056 | .00184 | .00043 | .00006 | .00002 | .0040 | .00331 | .00003 | .00002 | .00004 | .00026 |
| %RSD | 82.430 | .10990 | 68.135 | 14.120 | 9.4678 | 401.77 | .37566 | 44.384 | 24.173 | 12.440 | 24.142 | 6.5759 |
| #1 | .00041 | 50.862 | .00400 | .00332 | .00061 | .00001 | 1.0576 | -.00979 | .00014 | .00014 | .00014 | .00380 |
| #2 | .00154 | 50.941 | .00140 | .00272 | .00069 | -.00002 | 1.0520 | -.00511 | .00010 | .00016 | .00019 | .00417 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.664** | **.13871** | **.00218** | **-.00169** | **.00003** | **.00005** | **258.37** | **.00068** | **.00299** | **.00081** | **5.0748** | **-.00266** |
| Stddev | .239 | .08476 | .00098 | .00152 | .00008 | .00004 | .33 | .00042 | .00105 | .00138 | .0125 | .00004 |
| %RSD | .47127 | 61.104 | 44.902 | 90.289 | 279.77 | 86.350 | .12589 | 61.440 | 35.238 | 170.52 | .24564 | 1.5201 |
| #1 | 50.495 | .07878 | .00287 | -.00061 | .00009 | .00002 | 258.14 | .00098 | .00374 | .00179 | 5.0836 | -.00263 |
| #2 | 50.832 | .19864 | .00149 | -.00276 | -.00003 | .00008 | 258.60 | .00039 | .00225 | -.00017 | 5.0659 | -.00269 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00214** | **.01048** | **.02243** | **-.00080** | **.00047** | **4.8351** | **-.00061** | **.00211** | **10.452** | **.00074** | **.00020** | **.03588** |
| Stddev | .00208 | .00612 | .01309 | .00042 | .00006 | .0112 | .00020 | .00190 | .013 | .00055 | .00019 | .00050 |
| %RSD | 97.107 | 58.374 | 58.374 | 52.461 | 11.939 | .23050 | 33.271 | 89.899 | .12482 | 74.886 | 95.096 | 1.3928 |
| #1 | -.00067 | .01481 | .03168 | -.00050 | .00043 | 4.8430 | -.00047 | .00346 | 10.461 | .00035 | .00033 | .03624 |
| #2 | -.00361 | .00615 | .01317 | -.00109 | .00051 | 4.8272 | -.00076 | .00077 | 10.443 | .00113 | .00007 | .03553 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8578.3** | **105690.** | **8799.9** |
| Stddev | 3.9 | 224. | 33.6 |
| %RSD | .04543 | .21168 | .38210 |
| #1 | 8575.6 | 105850. | 8823.7 |
| #2 | 8581.1 | 105530. | 8776.1 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 22:27:24 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50544** | **.51271** | **1.0366** | **.52766** | **.52534** | **.51134** | **.00205** | **5.1639** | **.52132** | **.51431** | **.51492** | **.50863** | **2.6223** |
| Stddev | .00203 | .00102 | .0012 | .00001 | .00121 | .00148 | .00205 | .0098 | .00071 | .00064 | .00092 | .00025 | .0139 |
| %RSD | .40135 | .19991 | .11200 | .00173 | .23104 | .28903 | 100.31 | .18988 | .13615 | .12379 | .17814 | .04987 | .53157 |
| #1 | .50688 | .51198 | 1.0358 | .52766 | .52620 | .51239 | .00350 | 5.1709 | .52183 | .51386 | .51427 | .50845 | 2.6321 |
| #2 | .50401 | .51343 | 1.0374 | .52765 | .52448 | .51030 | .00060 | 5.1570 | .52082 | .51476 | .51557 | .50881 | 2.6124 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **51.353** | **.98952** | **19.709** | **.49606** | **.52094** | **5.3498** | **.51880** | **1.0447** | **1.0422** | **-.00094** | **1.0348** | **1.0359** | **5.1250** |
| Stddev | .046 | .00371 | .019 | .00154 | .00134 | .0201 | .00033 | .0014 | .0026 | .00154 | .0020 | .0059 | .0120 |
| %RSD | .08992 | .37473 | .09793 | .31104 | .25696 | .37496 | .06416 | .13778 | .24432 | 163.64 | .19110 | .56706 | .23431 |
| #1 | 51.386 | .98690 | 19.723 | .49715 | .52000 | 5.3640 | .51904 | 1.0437 | 1.0404 | .00015 | 1.0362 | 1.0318 | 5.1335 |
| #2 | 51.321 | .99214 | 19.695 | .49497 | .52189 | 5.3356 | .51856 | 1.0457 | 1.0440 | -.00203 | 1.0334 | 1.0401 | 5.1165 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.968** | **1.0429** | **.51112** | **-.00456** | **.49730** | **1.0461** | **-.00566** | **.50860** | **.49840** | **.51241** |
| Stddev | .026 | .0011 | .00031 | .00082 | .00101 | .0030 | .04536 | .00033 | .00033 | .00048 |
| %RSD | .23431 | .10779 | .06049 | 18.028 | .20277 | .28329 | 802.01 | .06581 | .06540 | .09292 |
| #1 | 10.986 | 1.0421 | .51134 | -.00515 | .49802 | 1.0440 | -.03773 | .50884 | .49863 | .51207 |
| #2 | 10.949 | 1.0437 | .51090 | -.00398 | .49659 | 1.0482 | .02642 | .50836 | .49817 | .51275 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8782.8** | **109030.** | **8936.2** |
| Stddev | 31.5 | 587. | 36.3 |
| %RSD | .35871 | .53864 | .40578 |
| #1 | 8805.1 | 108620. | 8961.8 |
| #2 | 8760.5 | 109450. | 8910.6 |

Sample Name: CCB  Acquired: 8/15/2013 22:29:31  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **-.00028** | **.00274** | **.00151** | **-.00002** | **.00010** | **.00566** | **-.00108** | **.00006** | **.00004** | **-.00012** | **.00014** |
| Stddev | .00035 | .00003 | .00049 | .00039 | .00001 | .00004 | .00086 | .00107 | .00009 | .00002 | .00015 | .00009 |
| %RSD | 1336.4 | 9.1077 | 17.852 | 26.018 | 43.806 | 44.493 | 15.129 | 98.683 | 153.32 | 45.752 | 118.96 | 64.105 |
| #1 | .00022 | -.00026 | .00309 | .00178 | -.00003 | .00013 | .00627 | -.00184 | .00012 | .00002 | -.00023 | .00021 |
| #2 | -.00028 | -.00030 | .00240 | .00123 | -.00002 | .00007 | .00506 | -.00033 | .00000 | .00005 | -.00002 | .00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00173** | **.08974** | **-.00007** | **.00044** | **.00005** | **.00057** | W **.14456** | **.00009** | **.00043** | **-.00101** | **-.00195** | **.00255** |
| Stddev | .00030 | .02131 | .00002 | .00050 | .00002 | .00013 | .01464 | .00013 | .00090 | .00010 | .00283 | .00038 |
| %RSD | 17.421 | 23.746 | 23.673 | 114.80 | 41.758 | 23.756 | 10.124 | 150.02 | 208.24 | 10.093 | 145.16 | 14.848 |
| #1 | -.00194 | .07468 | -.00008 | .00079 | .00003 | .00047 | .15491 | .00018 | -.00020 | -.00094 | .00005 | .00281 |
| #2 | -.00152 | .10481 | -.00006 | .00008 | .00006 | .00066 | .13421 | -.00001 | .00107 | -.00108 | -.00395 | .00228 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .09160 | | | | | |
| Low Limit | | | | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00184** | **.00639** | **.01367** | **-.00062** | **-.00001** | **-.00121** | **.00020** | **.00166** | **.01022** | **-.00046** | **.00129** | W **.00317** |
| Stddev | .00121 | .00449 | .00962 | .00010 | .00012 | .00147 | .00021 | .00010 | .00057 | .00033 | .00017 | .00270 |
| %RSD | 65.749 | 70.365 | 70.365 | 15.997 | 1765.5 | 120.94 | 105.49 | 6.1386 | 5.5640 | 73.152 | 13.310 | 85.299 |
| #1 | .00098 | .00321 | .00687 | -.00055 | .00008 | -.00225 | .00005 | .00159 | .00982 | -.00069 | .00117 | .00126 |
| #2 | .00269 | .00956 | .02047 | -.00069 | -.00009 | -.00018 | .00034 | .00173 | .01062 | -.00022 | .00141 | .00508 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8834.9** | **110610.** | **8852.6** |
| Stddev | 1.4 | 380. | 73.3 |
| %RSD | .01638 | .34392 | .82759 |
| #1 | 8836.0 | 110880. | 8904.4 |
| #2 | 8833.9 | 110340. | 8800.7 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 22:31:46 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01035** | **.10452** | **.01594** | **.09794** | **.01070** | **.00099** | **.11456** | **.21039** | **.00547** | **.01062** | **.01084** | **.01604** | **.10548** |
| Stddev | .00059 | .00001 | .00049 | .00007 | .00060 | .00007 | .00069 | .00022 | .00005 | .00008 | .00015 | .00002 | .00002 |
| %RSD | 5.7154 | .01080 | 3.0990 | .07158 | 5.6421 | 7.3512 | .60164 | .10529 | .91621 | .75760 | 1.3504 | .13131 | .02268 |
| #1 | .01076 | .10451 | .01629 | .09799 | .01028 | .00094 | .11408 | .21055 | .00550 | .01068 | .01074 | .01602 | .10549 |
| #2 | .00993 | .10453 | .01560 | .09789 | .01113 | .00104 | .11505 | .21024 | .00543 | .01056 | .01094 | .01605 | .10546 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1975** | **.00954** | **.20521** | **.01014** | **.02067** | **1.2006** | **.04248** | **2.9431** | **.00969** | **-.00003** | **.00825** | **.01406** | **.50172** |
| Stddev | .0552 | .00380 | .00444 | .00003 | .00014 | .0178 | .00008 | .0061 | .00018 | .00153 | .00210 | .00002 | .00423 |
| %RSD | 1.7255 | 39.838 | 2.1631 | .33052 | .66135 | 1.4794 | .17966 | .20800 | 1.8173 | 4492.7 | 25.417 | .12678 | .84382 |
| #1 | 3.1585 | .01223 | .20207 | .01012 | .02057 | 1.1880 | .04254 | 2.9474 | .00957 | .00105 | .00676 | .01405 | .49872 |
| #2 | 3.2365 | .00686 | .20835 | .01017 | .02077 | 1.2131 | .04243 | 2.9388 | .00981 | -.00111 | .00973 | .01407 | .50471 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0737** | **.10419** | **.01031** | **.01437** | **.00986** | **.01649** | **.05914** | **.01005** | **.02135** | **.01884** |
| Stddev | .0091 | .00048 | .00001 | .00144 | .00004 | .00119 | .00909 | .00043 | .00001 | .00272 |
| %RSD | .84382 | .46393 | .09185 | 9.9855 | .39737 | 7.2422 | 15.367 | 4.2394 | .02569 | 14.422 |
| #1 | 1.0673 | .10454 | .01032 | .01539 | .00989 | .01734 | .05271 | .00975 | .02135 | .02076 |
| #2 | 1.0801 | .10385 | .01030 | .01336 | .00983 | .01565 | .06556 | .01035 | .02134 | .01692 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8811.9** | **110250.** | **8882.9** |
| Stddev | 29.4 | 313. | 29.2 |
| %RSD | .33368 | .28356 | .32896 |
| #1 | 8791.1 | 110470. | 8903.6 |
| #2 | 8832.7 | 110030. | 8862.3 |

Sample Name: mb 280-187296/1-a  Acquired: 8/15/2013 22:34:05  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187296  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00046** | **.00201** | **-.00109** | **.00104** | **.00013** | **.00004** | **.00442** | **.01142** | **.00009** | **.00013** |
| Stddev | .00004 | .00002 | .00145 | .00034 | .00025 | .00000 | .00013 | .00041 | .00009 | .00030 |
| %RSD | 8.1715 | .74734 | 133.13 | 32.537 | 199.77 | 6.1002 | 2.8508 | 3.5768 | 94.330 | 241.14 |
| #1 | .00043 | .00200 | -.00006 | .00128 | .00031 | .00004 | .00451 | .01113 | .00003 | .00034 |
| #2 | .00049 | .00202 | -.00211 | .00080 | -.00005 | .00004 | .00433 | .01171 | .00016 | -.00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00007** | **.00433** | **-.01539** | **-.00117** | **.00829** | **.00015** | **-.00011** | **.12054** | **.00034** |
| Stddev | .00012 | .00045 | .00019 | .02521 | .00130 | .00058 | .00004 | .00030 | .01287 | .00006 |
| %RSD | 285.69 | 662.86 | 4.3174 | 163.85 | 110.98 | 6.9610 | 27.581 | 284.39 | 10.680 | 17.265 |
| #1 | -.00004 | -.00025 | .00420 | -.03321 | -.00209 | .00788 | .00012 | -.00032 | .12964 | .00038 |
| #2 | .00013 | .00039 | .00447 | .00244 | -.00025 | .00870 | .00018 | .00011 | .11143 | .00030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00227** | **-.00023** | **.00135** | **-.00171** | **.00336** | **.02045** | **.04376** | **-.00044** | **-.00006** | **-.00060** |
| Stddev | .00034 | .00046 | .00263 | .00081 | .00739 | .00678 | .01451 | .00002 | .00004 | .00123 |
| %RSD | 15.110 | 203.16 | 195.25 | 47.167 | 220.21 | 33.153 | 33.153 | 4.2300 | 68.875 | 205.46 |
| #1 | .00203 | .00010 | -.00051 | -.00114 | -.00187 | .02524 | .05402 | -.00045 | -.00009 | .00027 |
| #2 | .00251 | -.00056 | .00321 | -.00228 | .00858 | .01566 | .03350 | -.00042 | -.00003 | -.00147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00059** | **.00008** | **-.01437** | **-.00050** | **.00184** | **.00461** |
| Stddev | .00006 | .00094 | .00127 | .00041 | .00001 | .00065 |
| %RSD | 9.8660 | 1130.3 | 8.8511 | 81.461 | .44851 | 14.111 |
| #1 | .00063 | -.00058 | -.01527 | -.00021 | .00183 | .00415 |
| #2 | .00055 | .00075 | -.01347 | -.00079 | .00184 | .00507 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8875.6** | **111780.** | **8910.4** |
| Stddev | 21.2 | 515. | 1.9 |
| %RSD | .23930 | .46080 | .02084 |
| #1 | 8860.6 | 112150. | 8911.7 |
| #2 | 8890.6 | 111420. | 8909.1 |

Sample Name: lcs 280-187296/2-a  Acquired: 8/15/2013 22:36:21  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187296  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04914** | **1.8998** | **1.0184** | **1.0227** | **2.0759** | **.04971** | **2.1413** | **50.047** | **.10691** | **.48961** |
| Stddev | .00043 | .0002 | .0008 | .0013 | .0044 | .00012 | .0020 | .019 | .00026 | .00027 |
| %RSD | .88378 | .01057 | .08140 | .12703 | .21192 | .23895 | .09539 | .03827 | .24752 | .05469 |
| #1 | .04883 | 1.8996 | 1.0190 | 1.0236 | 2.0791 | .04980 | 2.1399 | 50.034 | .10710 | .48980 |
| #2 | .04945 | 1.8999 | 1.0178 | 1.0218 | 2.0728 | .04963 | 2.1428 | 50.061 | .10672 | .48942 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20209** | **.25022** | **1.0152** | **50.581** | **.96766** | **48.353** | **.48124** | **1.0299** | **52.104** | **.49688** |
| Stddev | .00027 | .00074 | .0049 | .102 | .00135 | .028 | .00035 | .0013 | .149 | .00083 |
| %RSD | .13381 | .29623 | .48107 | .20140 | .13925 | .05883 | .07269 | .12387 | .28647 | .16707 |
| #1 | .20228 | .24969 | 1.0187 | 50.653 | .96861 | 48.373 | .48149 | 1.0290 | 51.998 | .49629 |
| #2 | .20190 | .25074 | 1.0118 | 50.509 | .96671 | 48.333 | .48100 | 1.0308 | 52.209 | .49746 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.396** | **.50024** | **-.01019** | **.48575** | **2.0068** | **10.075** | **21.561** | **2.0386** | **1.0014** | **.94051** |
| Stddev | .004 | .00063 | .00001 | .00190 | .0147 | .002 | .005 | .0024 | .0015 | .00079 |
| %RSD | .03506 | .12530 | .08670 | .39021 | .73307 | .02240 | .02240 | .11767 | .15047 | .08357 |
| #1 | 10.393 | .49979 | -.01019 | .48709 | 2.0172 | 10.077 | 21.565 | 2.0403 | 1.0025 | .94107 |
| #2 | 10.399 | .50068 | -.01020 | .48441 | 1.9964 | 10.074 | 21.558 | 2.0369 | 1.0003 | .93996 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98184** | **1.9513** | **2.1441** | **.50359** | **.48546** | **.51090** |
| Stddev | .00069 | .0075 | .0586 | .00041 | .00156 | .00295 |
| %RSD | .07001 | .38279 | 2.7347 | .08191 | .32066 | .57655 |
| #1 | .98233 | 1.9566 | 2.1027 | .50388 | .48656 | .51299 |
| #2 | .98136 | 1.9460 | 2.1856 | .50329 | .48436 | .50882 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8562.5** | **106200.** | **8862.5** |
| Stddev | 16.3 | 489. | 30.8 |
| %RSD | .19001 | .46071 | .34807 |
| #1 | 8574.0 | 105850. | 8840.7 |
| #2 | 8551.0 | 106540. | 8884.4 |

Sample Name: lcsd 280-187296/3-a  Acquired: 8/15/2013 22:38:27  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187296  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04928** | **1.9091** | **1.0262** | **1.0288** | **2.0808** | **.04994** | **2.1521** | **50.220** | **.10708** | **.49173** |
| Stddev | .00136 | .0009 | .0015 | .0003 | .0048 | .00001 | .0006 | .093 | .00011 | .00013 |
| %RSD | 2.7556 | .04913 | .14767 | .03026 | .23007 | .02354 | .02777 | .18551 | .10716 | .02609 |
| #1 | .05024 | 1.9084 | 1.0252 | 1.0290 | 2.0774 | .04993 | 2.1516 | 50.154 | .10716 | .49182 |
| #2 | .04832 | 1.9097 | 1.0273 | 1.0285 | 2.0842 | .04994 | 2.1525 | 50.286 | .10699 | .49164 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20250** | **.25323** | **1.0259** | **50.897** | **.97317** | **48.635** | **.48413** | **1.0330** | **51.764** | **.49753** |
| Stddev | .00014 | .00029 | .0078 | .121 | .00292 | .056 | .00034 | .0001 | .276 | .00047 |
| %RSD | .06738 | .11501 | .75821 | .23684 | .29964 | .11519 | .07039 | .00872 | .53251 | .09434 |
| #1 | .20260 | .25343 | 1.0204 | 50.811 | .97523 | 48.674 | .48389 | 1.0330 | 51.569 | .49720 |
| #2 | .20241 | .25302 | 1.0314 | 50.982 | .97111 | 48.595 | .48437 | 1.0329 | 51.959 | .49787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.429** | **.50084** | **-.00945** | **.48858** | **2.0235** | **10.098** | **21.610** | **2.0511** | **1.0070** | **.94705** |
| Stddev | .011 | .00151 | .00222 | .00164 | .0050 | .053 | .114 | .0138 | .0008 | .00017 |
| %RSD | .10180 | .30150 | 23.439 | .33608 | .24778 | .52524 | .52524 | .67382 | .08443 | .01747 |
| #1 | 10.421 | .50190 | -.00788 | .48974 | 2.0271 | 10.061 | 21.530 | 2.0609 | 1.0064 | .94694 |
| #2 | 10.436 | .49977 | -.01102 | .48741 | 2.0200 | 10.136 | 21.690 | 2.0413 | 1.0076 | .94717 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98835** | **1.9636** | **2.1424** | **.50748** | **.48752** | **.51206** |
| Stddev | .00174 | .0079 | .0140 | .00166 | .00081 | .00148 |
| %RSD | .17622 | .40417 | .65518 | .32684 | .16709 | .28843 |
| #1 | .98712 | 1.9693 | 2.1524 | .50630 | .48810 | .51102 |
| #2 | .98958 | 1.9580 | 2.1325 | .50865 | .48695 | .51311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8560.5** | **106300.** | **8834.3** |
| Stddev | 1.8 | 71. | 11.5 |
| %RSD | .02096 | .06709 | .13011 |
| #1 | 8559.2 | 106250. | 8842.4 |
| #2 | 8561.8 | 106350. | 8826.1 |

Sample Name: 280-44895-e-1-g  Acquired: 8/15/2013 22:40:34  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187296  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **16.294** | **.00447** | **.02742** | **.30056** | **.00101** | **-.00134** | **31.077** | **.00052** | **.00776** |
| Stddev | .00035 | .056 | .00117 | .00063 | .00042 | .00002 | .00016 | .026 | .00004 | .00013 |
| %RSD | 170.36 | .34501 | 26.247 | 2.2908 | .13808 | 2.2944 | 12.194 | .08496 | 7.1086 | 1.6952 |
| #1 | -.00045 | 16.333 | .00364 | .02786 | .30085 | .00099 | -.00123 | 31.095 | .00055 | .00785 |
| #2 | .00004 | 16.254 | .00530 | .02698 | .30027 | .00102 | -.00146 | 31.058 | .00050 | .00766 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01732** | **.02766** | **13.861** | **5.0002** | **.01937** | **9.4998** | **.32014** | **.00251** | **38.450** | **.01409** |
| Stddev | .00020 | .00025 | .001 | .0190 | .00187 | .0221 | .00107 | .00038 | .164 | .00034 |
| %RSD | 1.1698 | .89534 | .00627 | .38054 | 9.6492 | .23263 | .33418 | 15.158 | .42530 | 2.4185 |
| #1 | .01746 | .02748 | 13.860 | 5.0136 | .01805 | 9.4842 | .31938 | .00224 | 38.565 | .01434 |
| #2 | .01718 | .02783 | 13.861 | 4.9867 | .02069 | 9.5154 | .32089 | .00278 | 38.334 | .01385 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21778** | **.00960** | **7.5943** | **-.00340** | **.00172** | **27.134** | **58.067** | **.00113** | **.28131** | **.00525** |
| Stddev | .00128 | .00016 | .0193 | .00024 | .00135 | .002 | .004 | .00014 | .00046 | .00230 |
| %RSD | .58556 | 1.7072 | .25388 | 7.1005 | 78.818 | .00680 | .00680 | 12.303 | .16400 | 43.713 |
| #1 | .21868 | .00971 | 7.5807 | -.00323 | .00076 | 27.133 | 58.064 | .00122 | .28098 | .00363 |
| #2 | .21688 | .00948 | 7.6080 | -.00357 | .00268 | 27.135 | 58.070 | .00103 | .28164 | .00688 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21543** | **.00189** | W **-.05414** | **.03216** | **.06839** | **.00680** |
| Stddev | .00126 | .00046 | .00640 | .00043 | .00019 | .00144 |
| %RSD | .58611 | 24.238 | 11.830 | 1.3392 | .28072 | 21.116 |
| #1 | .21454 | .00157 | -.05866 | .03247 | .06853 | .00782 |
| #2 | .21632 | .00221 | -.04961 | .03186 | .06826 | .00579 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8976.3** | **110050.** | **9068.8** |
| Stddev | 121.1 | 115. | 5.9 |
| %RSD | 1.3497 | .10453 | .06534 |
| #1 | 8890.6 | 110130. | 9073.0 |
| #2 | 9062.0 | 109970. | 9064.6 |

Sample Name: 280-44895-e-1-gSD@5 Acquired: 8/15/2013 22:42:50 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187296 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **5.5178** | **.00190** | **.01069** | **.09756** | **.00034** | **.00442** | **10.052** | **.00051** | **.00253** |
| Stddev | .00033 | .0571 | .00105 | .00043 | .00009 | .00000 | .00051 | .050 | .00009 | .00013 |
| %RSD | 264.45 | 1.0342 | 55.252 | 3.9755 | .08771 | 1.0853 | 11.469 | .50145 | 18.510 | 4.9813 |
| #1 | -.00011 | 5.5581 | .00264 | .01039 | .09750 | .00035 | .00406 | 10.088 | .00044 | .00262 |
| #2 | .00036 | 5.4774 | .00116 | .01099 | .09762 | .00034 | .00478 | 10.017 | .00057 | .00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00572** | **.00894** | **4.5530** | **1.6524** | **.00353** | **3.0476** | **.10337** | **.00065** | **12.944** | **.00474** |
| Stddev | .00003 | .00035 | .0194 | .0053 | .00532 | .0042 | .00023 | .00011 | .089 | .00018 |
| %RSD | .56310 | 3.9550 | .42677 | .31805 | 150.61 | .13787 | .22706 | 16.890 | .69055 | 3.8402 |
| #1 | .00574 | .00919 | 4.5668 | 1.6562 | -.00023 | 3.0505 | .10321 | .00073 | 13.007 | .00461 |
| #2 | .00569 | .00869 | 4.5393 | 1.6487 | .00729 | 3.0446 | .10354 | .00057 | 12.881 | .00487 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06818** | **.00226** | **2.3133** | **-.00257** | **-.00024** | **9.2748** | **19.848** | **-.00078** | **.09120** | **.00199** |
| Stddev | .00016 | .00075 | .0093 | .00046 | .00294 | .0444 | .095 | .00082 | .00068 | .00117 |
| %RSD | .23720 | 33.084 | .40188 | 17.862 | 1214.2 | .47868 | .47868 | 105.51 | .74244 | 58.989 |
| #1 | .06807 | .00279 | 2.3198 | -.00225 | -.00232 | 9.3062 | 19.915 | -.00020 | .09168 | .00116 |
| #2 | .06830 | .00173 | 2.3067 | -.00289 | .00184 | 9.2434 | 19.781 | -.00136 | .09072 | .00281 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08541** | **-.00022** | **.01733** | **.01020** | **.02464** | **.00541** |
| Stddev | .00205 | .00104 | .03436 | .00044 | .00011 | .00082 |
| %RSD | 2.4000 | 475.62 | 198.27 | 4.3457 | .46379 | 15.131 |
| #1 | .08686 | .00052 | -.00697 | .00989 | .02456 | .00599 |
| #2 | .08396 | -.00096 | .04162 | .01051 | .02472 | .00484 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8935.6** | **111560.** | **9050.4** |
| Stddev | 22.5 | 510. | 19.7 |
| %RSD | .25226 | .45762 | .21713 |
| #1 | 8919.6 | 111190. | 9036.5 |
| #2 | 8951.5 | 111920. | 9064.3 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 22:45:05 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **50.184** | **.00397** | **.00293** | **.00074** | **-.00003** | W **1.0530** | **-.00958** | **.00027** | **.00031** | **.00013** | **.00446** |
| Stddev | .00016 | .145 | .00264 | .00058 | .00000 | .00007 | .0053 | .00083 | .00004 | .00023 | .00007 | .00000 |
| %RSD | 35.672 | .28834 | 66.345 | 19.677 | .16116 | 213.43 | .50661 | 8.7081 | 15.163 | 75.369 | 50.486 | .01661 |
| #1 | .00056 | 50.082 | .00584 | .00334 | .00074 | -.00008 | 1.0492 | -.01017 | .00025 | .00014 | .00018 | .00446 |
| #2 | .00033 | 50.286 | .00211 | .00252 | .00074 | .00002 | 1.0568 | -.00899 | .00030 | .00047 | .00008 | .00446 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.996** | **.14601** | **.00209** | **-.00438** | **.00004** | **.00003** | **256.03** | **.00096** | **.00254** | **-.00054** | **5.0626** | **-.00273** |
| Stddev | .196 | .04119 | .00150 | .00026 | .00011 | .00007 | .66 | .00002 | .00126 | .00010 | .0224 | .00163 |
| %RSD | .39129 | 28.208 | 71.710 | 6.0357 | 266.37 | 213.12 | .25618 | 2.5723 | 49.328 | 18.492 | .44325 | 59.481 |
| #1 | 49.858 | .11689 | .00315 | -.00457 | -.00004 | -.00002 | 255.56 | .00098 | .00343 | -.00061 | 5.0467 | -.00158 |
| #2 | 50.135 | .17514 | .00103 | -.00420 | .00012 | .00008 | 256.49 | .00094 | .00166 | -.00047 | 5.0784 | -.00388 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **-.00459** | **-.00982** | **-.00067** | **.00041** | **4.8005** | **-.00097** | **.00189** | **10.421** | **.00116** | **.00005** | **.03521** |
| Stddev | .00050 | .00669 | .01432 | .00095 | .00002 | .0138 | .00046 | .00039 | .040 | .00022 | .00048 | .00115 |
| %RSD | 254.93 | 145.82 | 145.82 | 142.43 | 4.1455 | .28860 | 47.001 | 20.677 | .38447 | 19.130 | 942.80 | 3.2657 |
| #1 | -.00055 | .00014 | .00031 | .00000 | .00039 | 4.8103 | -.00130 | .00217 | 10.449 | .00100 | -.00029 | .03440 |
| #2 | .00016 | -.00932 | -.01995 | -.00135 | .00042 | 4.7907 | -.00065 | .00162 | 10.393 | .00131 | .00039 | .03602 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8642.8** | **106230.** | **8971.7** |
| Stddev | 17.1 | 614. | 18.7 |
| %RSD | .19815 | .57776 | .20804 |
| #1 | 8630.6 | 105790. | 8984.9 |
| #2 | 8654.9 | 106660. | 8958.5 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 22:47:26 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49637** | **.50468** | **1.0144** | **.52053** | **.51703** | **.50107** | **.00119** | **5.0707** | **.51304** | **.50634** | **.50678** | **.50025** | **2.5729** |
| Stddev | .00022 | .00231 | .0011 | .00227 | .00053 | .00039 | .00522 | .0045 | .00140 | .00111 | .00092 | .00024 | .0081 |
| %RSD | .04410 | .45856 | .11084 | .43624 | .10312 | .07722 | 439.50 | .08855 | .27226 | .21841 | .18081 | .04874 | .31458 |
| #1 | .49621 | .50304 | 1.0152 | .51892 | .51665 | .50134 | -.00250 | 5.0675 | .51205 | .50556 | .50613 | .50008 | 2.5672 |
| #2 | .49652 | .50632 | 1.0136 | .52213 | .51740 | .50079 | .00488 | 5.0739 | .51403 | .50713 | .50742 | .50042 | 2.5787 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.309** | **.97152** | **19.430** | **.48838** | **.51316** | **5.2102** | **.51157** | **1.0338** | **1.0278** | **-.00486** | **1.0225** | **1.0363** | **5.0284** |
| Stddev | .004 | .00038 | .033 | .00003 | .00059 | .0024 | .00123 | .0010 | .0018 | .00096 | .0009 | .0086 | .0371 |
| %RSD | .00867 | .03863 | .17053 | .00585 | .11421 | .04670 | .24029 | .09289 | .17872 | 19.776 | .08765 | .82843 | .73829 |
| #1 | 50.306 | .97125 | 19.407 | .48840 | .51275 | 5.2085 | .51070 | 1.0345 | 1.0265 | -.00554 | 1.0219 | 1.0302 | 5.0546 |
| #2 | 50.312 | .97178 | 19.454 | .48836 | .51358 | 5.2119 | .51244 | 1.0332 | 1.0291 | -.00418 | 1.0232 | 1.0424 | 5.0021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.761** | **1.0330** | **.50067** | **-.00266** | **.49003** | **1.0369** | **-.06414** | **.50114** | **.49092** | **.49968** |
| Stddev | .079 | .0005 | .00049 | .00075 | .00082 | .0059 | .02062 | .00084 | .00015 | .00635 |
| %RSD | .73829 | .04569 | .09754 | 28.117 | .16834 | .56983 | 32.140 | .16771 | .03133 | 1.2707 |
| #1 | 10.817 | 1.0327 | .50102 | -.00319 | .48945 | 1.0327 | -.04957 | .50055 | .49103 | .50417 |
| #2 | 10.705 | 1.0333 | .50032 | -.00213 | .49061 | 1.0410 | -.07872 | .50174 | .49081 | .49519 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8911.6** | **110740.** | **9050.5** |
| Stddev | .1 | 170. | 17.3 |
| %RSD | .00149 | .15359 | .19068 |
| #1 | 8911.7 | 110860. | 9038.3 |
| #2 | 8911.5 | 110620. | 9062.7 |

Sample Name: CCB  Acquired: 8/15/2013 22:49:33  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **.00051** | **.00182** | **.00154** | **.00001** | **.00001** | **.00475** | **.00079** | **.00018** | **.00007** | **.00004** | **-.00019** |
| Stddev | .00021 | .00039 | .00035 | .00005 | .00008 | .00002 | .00106 | .00172 | .00023 | .00013 | .00010 | .00010 |
| %RSD | 557.77 | 75.506 | 19.330 | 2.9326 | 758.22 | 233.71 | 22.236 | 219.36 | 130.88 | 194.59 | 245.98 | 53.618 |
| #1 | -.00011 | .00079 | .00157 | .00151 | -.00005 | -.00001 | .00400 | .00200 | .00001 | .00016 | .00011 | -.00012 |
| #2 | .00019 | .00024 | .00207 | .00158 | .00007 | .00002 | .00549 | -.00043 | .00034 | -.00003 | -.00003 | -.00026 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00093** | **.09160** | **-.00092** | **.00043** | **.00007** | **.00053** | W **.14843** | **.00025** | **-.00013** | **-.00151** | **-.00363** | W **.00334** |
| Stddev | .00112 | .07897 | .00239 | .00126 | .00004 | .00002 | .01509 | .00020 | .00109 | .00019 | .00187 | .00022 |
| %RSD | 120.33 | 86.211 | 258.67 | 291.82 | 64.033 | 4.6867 | 10.168 | 80.627 | 861.27 | 12.764 | 51.570 | 6.6460 |
| #1 | .00014 | .03576 | -.00261 | -.00046 | .00004 | .00051 | .13776 | .00011 | .00065 | -.00137 | -.00231 | .00350 |
| #2 | .00172 | .14744 | .00076 | .00132 | .00010 | .00055 | .15911 | .00040 | -.00090 | -.00165 | -.00495 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00061** | **-.00216** | **-.00463** | **-.00020** | **-.00010** | **.00080** | **-.00007** | **.00148** | **-.01415** | **-.00046** | **.00300** | **.00236** |
| Stddev | .00151 | .00035 | .00075 | .00008 | .00007 | .00012 | .00012 | .00057 | .03921 | .00022 | .00013 | .00037 |
| %RSD | 247.84 | 16.131 | 16.131 | 40.799 | 73.716 | 14.965 | 166.96 | 38.563 | 277.01 | 46.718 | 4.2076 | 15.613 |
| #1 | .00046 | -.00192 | -.00410 | -.00026 | -.00015 | .00088 | .00001 | .00107 | -.04188 | -.00062 | .00309 | .00262 |
| #2 | -.00167 | -.00241 | -.00516 | -.00014 | -.00005 | .00071 | -.00016 | .00188 | .01357 | -.00031 | .00291 | .00210 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8986.9** | **112770.** | **9054.3** |
| Stddev | 2.1 | 126. | 17.1 |
| %RSD | .02315 | .11150 | .18899 |
| #1 | 8985.5 | 112680. | 9042.2 |
| #2 | 8988.4 | 112860. | 9066.4 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 22:51:48 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01066** | **.11243** | **.01672** | **.10425** | **.01060** | **.00096** | **.12370** | **.21091** | **.00538** | **.01088** | **.01037** | **.01536** | **.10517** |
| Stddev | .00018 | .00019 | .00033 | .00020 | .00011 | .00001 | .00178 | .00209 | .00017 | .00023 | .00008 | .00021 | .00096 |
| %RSD | 1.6985 | .17223 | 1.9836 | .19539 | 1.0122 | 1.0636 | 1.4405 | .99100 | 3.2423 | 2.0883 | .79041 | 1.3531 | .91493 |
| #1 | .01079 | .11229 | .01649 | .10440 | .01068 | .00096 | .12496 | .21238 | .00526 | .01104 | .01043 | .01551 | .10449 |
| #2 | .01053 | .11257 | .01696 | .10411 | .01052 | .00097 | .12244 | .20943 | .00551 | .01072 | .01031 | .01522 | .10585 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1410** | **.01147** | **.20699** | **.01015** | **.02014** | **1.1605** | **.04308** | **3.0657** | **.00935** | **-.00317** | F **.00632** | **.01753** | **.50830** |
| Stddev | .0443 | .00229 | .00260 | .00000 | .00022 | .0056 | .00012 | .0155 | .00015 | .00076 | .00045 | .00489 | .00787 |
| %RSD | 1.4099 | 19.934 | 1.2548 | .03007 | 1.0678 | .48578 | .28289 | .50586 | 1.5832 | 24.098 | 7.0952 | 27.912 | 1.5477 |
| #1 | 3.1097 | .00985 | .20882 | .01015 | .02029 | 1.1565 | .04317 | 3.0767 | .00924 | -.00263 | .00601 | .01407 | .50273 |
| #2 | 3.1723 | .01308 | .20515 | .01015 | .01999 | 1.1644 | .04299 | 3.0548 | .00945 | -.00371 | .00664 | .02099 | .51386 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0878** | **.10436** | **.01019** | **.01310** | **.01002** | **.01748** | **.05865** | **.00946** | **.02156** | F **.01951** |
| Stddev | .0168 | .00057 | .00003 | .00055 | .00028 | .00023 | .00146 | .00025 | .00031 | .00045 |
| %RSD | 1.5477 | .55066 | .27628 | 4.2164 | 2.8352 | 1.3278 | 2.4850 | 2.6740 | 1.4449 | 2.3238 |
| #1 | 1.0759 | .10395 | .01017 | .01349 | .00982 | .01765 | .05968 | .00928 | .02134 | .01983 |
| #2 | 1.0997 | .10476 | .01021 | .01271 | .01022 | .01732 | .05762 | .00964 | .02178 | .01919 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9113.4** | **114320.** | **9180.5** |
| Stddev | 13.7 | 565. | 39.7 |
| %RSD | .15048 | .49458 | .43287 |
| #1 | 9123.1 | 114720. | 9208.6 |
| #2 | 9103.7 | 113920. | 9152.4 |

Sample Name: mb 280-187303/1-a  Acquired: 8/15/2013 22:54:04  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187303 SOIL

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00496** | **.00020** | **.00075** | **-.00009** | **.00000** | **.00226** | **.02993** | **.00018** | **.00012** |
| Stddev | .00047 | .00025 | .00073 | .00037 | .00007 | .0001 | .00056 | .00206 | .00013 | .00015 |
| %RSD | 530.52 | 4.9521 | 368.84 | 49.083 | 79.611 | 18216. | 24.934 | 6.8867 | 73.575 | 126.14 |
| #1 | -.00025 | .00479 | -.00032 | .00101 | -.00014 | -.00006 | .00266 | .02847 | .00008 | .00001 |
| #2 | .00043 | .00513 | .00071 | .00049 | -.00004 | .00006 | .00186 | .03139 | .00027 | .00023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.00070** | **.01048** | **.07881** | **-.00201** | **.00388** | **.00018** | **.00014** | **.18025** | **.00009** |
| Stddev | .00038 | .00005 | .00022 | .03096 | .00098 | .00063 | .00004 | .00011 | .00926 | .00002 |
| %RSD | 20.033 | 7.3082 | 2.0616 | 39.290 | 48.574 | 16.349 | 22.918 | 75.373 | 5.1389 | 26.141 |
| #1 | .00214 | .00073 | .01033 | .05691 | -.00132 | .00433 | .00021 | .00022 | .17370 | .00011 |
| #2 | .00161 | .00066 | .01063 | .10070 | -.00270 | .00343 | .00015 | .00007 | .18680 | .00007 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00505** | **-.00101** | **.01076** | **-.00269** | **-.00122** | **.02064** | **.04417** | **.00716** | **.00011** | **.00191** |
| Stddev | .00172 | .00120 | .00172 | .00376 | .00129 | .01046 | .02239 | .00019 | .00000 | .00072 |
| %RSD | 33.957 | 119.49 | 16.026 | 139.77 | 105.36 | 50.697 | 50.697 | 2.5960 | 1.8929 | 37.719 |
| #1 | .00627 | -.00016 | .00954 | -.00535 | -.00213 | .02804 | .06000 | .00703 | .00012 | .00140 |
| #2 | .00384 | -.00186 | .01198 | -.00003 | -.00031 | .01324 | .02833 | .00729 | .00011 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00068** | **-.04646** | **-.00055** | **.00260** | **.00341** |
| Stddev | .00013 | .00003 | .03498 | .00015 | .00008 | .00281 |
| %RSD | 20.474 | 4.8617 | 75.295 | 27.207 | 2.8896 | 82.385 |
| #1 | .00056 | .00071 | -.07119 | -.00065 | .00266 | .00142 |
| #2 | .00075 | .00066 | -.02172 | -.00044 | .00255 | .00539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9178.2** | **115170.** | **9266.2** |
| Stddev | 19.6 | 544. | 108.2 |
| %RSD | .21323 | .47191 | 1.1679 |
| #1 | 9192.0 | 115550. | 9189.7 |
| #2 | 9164.3 | 114790. | 9342.7 |

Sample Name: lcs 280-187303/2-a Acquired: 8/15/2013 22:56:19 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187303 SOIL

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04811** | **1.8765** | **1.0150** | **.99448** | **2.0478** | **.04899** | **2.1318** | **49.356** | **.10605** | **.48830** |
| Stddev | .00054 | .0010 | .0000 | .00266 | .0054 | .00006 | .0043 | .154 | .00002 | .00015 |
| %RSD | 1.1196 | .05447 | .00138 | .26755 | .26238 | .11723 | .20323 | .31221 | .02319 | .02988 |
| #1 | .04773 | 1.8772 | 1.0150 | .99260 | 2.0440 | .04895 | 2.1287 | 49.247 | .10606 | .48820 |
| #2 | .04849 | 1.8758 | 1.0150 | .99636 | 2.0516 | .04903 | 2.1349 | 49.465 | .10603 | .48840 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20140** | **.24851** | **1.0147** | **49.999** | **.95287** | **47.144** | **.47387** | **1.0167** | **51.486** | **.49430** |
| Stddev | .00046 | .00092 | .0026 | .171 | .00472 | .239 | .00158 | .0006 | .123 | .00008 |
| %RSD | .22998 | .37147 | .25838 | .34181 | .49544 | .50620 | .33305 | .06356 | .23878 | .01680 |
| #1 | .20107 | .24916 | 1.0129 | 49.878 | .94953 | 46.975 | .47275 | 1.0172 | 51.399 | .49424 |
| #2 | .20173 | .24786 | 1.0166 | 50.119 | .95620 | 47.313 | .47499 | 1.0163 | 51.573 | .49436 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.330** | **.49883** | **.01096** | **.47464** | **1.9803** | F **.81013** | **1.7337** | **2.0200** | **.99105** | **.91929** |
| Stddev | .000 | .00026 | .00360 | .00204 | .0140 | .01357 | .0290 | .0054 | .00229 | .00052 |
| %RSD | .00136 | .05280 | 32.877 | .43060 | .70560 | 1.6751 | 1.6751 | .26604 | .23125 | .05697 |
| #1 | 10.330 | .49902 | .01351 | .47608 | 1.9901 | .80054 | 1.7132 | 2.0238 | .98943 | .91892 |
| #2 | 10.330 | .49865 | .00841 | .47319 | 1.9704 | .81973 | 1.7542 | 2.0162 | .99267 | .91966 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 11.000 | | | | |
| Low Limit | | | | | | 9.0000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.96801** | **1.9415** | **2.1135** | **.49753** | **.47467** | **.50235** |
| Stddev | .00269 | .0032 | .0050 | .00033 | .00133 | .00142 |
| %RSD | .27798 | .16241 | .23670 | .06656 | .27994 | .28306 |
| #1 | .96611 | 1.9437 | 2.1171 | .49776 | .47373 | .50336 |
| #2 | .96991 | 1.9393 | 2.1100 | .49729 | .47561 | .50135 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8675.9** | **108650.** | **9168.2** |
| Stddev | 20.3 | 285. | 19.8 |
| %RSD | .23449 | .26236 | .21642 |
| #1 | 8661.6 | 108850. | 9182.2 |
| #2 | 8690.3 | 108440. | 9154.1 |

Sample Name: 280-45136-a-2-f  Acquired: 8/15/2013 22:58:25  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187303 SOIL

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00092** | **108.76** | **.05932** | **.03489** | **1.1604** | **.00400** | **-.00981** | **52.221** | **.00534** | **.04945** |
| Stddev | .00005 | .24 | .00035 | .00028 | .0006 | .00007 | .00040 | .040 | .00007 | .00001 |
| %RSD | 5.1174 | .22476 | .58229 | .81482 | .05416 | 1.6380 | 4.0336 | .07574 | 1.3225 | .02901 |
| #1 | -.00088 | 108.59 | .05957 | .03469 | 1.1609 | .00405 | -.00953 | 52.193 | .00529 | .04944 |
| #2 | -.00095 | 108.94 | .05908 | .03509 | 1.1600 | .00395 | -.01009 | 52.249 | .00539 | .04946 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17785** | **.12595** | **169.90** | **34.745** | **.18271** | **40.394** | **3.1841** | **.00645** | **.83224** | **.12589** |
| Stddev | .00053 | .00024 | .11 | .077 | .00124 | .018 | .0027 | .00001 | .01839 | .00015 |
| %RSD | .29533 | .18923 | .06475 | .22022 | .67662 | .04438 | .08319 | .14366 | 2.2093 | .11728 |
| #1 | .17823 | .12578 | 169.98 | 34.691 | .18358 | 40.407 | 3.1859 | .00645 | .81924 | .12578 |
| #2 | .17748 | .12612 | 169.83 | 34.799 | .18183 | 40.381 | 3.1822 | .00646 | .84524 | .12599 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.4603** | **.80696** | **2.4190** | **.00149** | **.00410** | **3.0697** | **6.5691** | **.01700** | **.36859** | **.06296** |
| Stddev | .0161 | .00045 | .0055 | .00199 | .00252 | .0214 | .0458 | .00007 | .00007 | .00181 |
| %RSD | .29461 | .05611 | .22777 | 133.42 | 61.523 | .69711 | .69711 | .38860 | .02005 | 2.8781 |
| #1 | 5.4717 | .80664 | 2.4151 | .00008 | .00589 | 3.0546 | 6.5368 | .01695 | .36854 | .06425 |
| #2 | 5.4489 | .80728 | 2.4229 | .00290 | .00232 | 3.0848 | 6.6015 | .01705 | .36864 | .06168 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.8740** | **.00021** | F **-.34741** | **.31936** | **.86520** | **.01743** |
| Stddev | .0260 | .00093 | .03934 | .00016 | .00102 | .00136 |
| %RSD | .33016 | 435.53 | 11.325 | .04913 | .11805 | 7.7876 |
| #1 | 7.8924 | -.00044 | -.37523 | .31947 | .86592 | .01647 |
| #2 | 7.8557 | .00087 | -.31959 | .31925 | .86448 | .01839 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9582.6** | **117540.** | **10117.** |
| Stddev | 3.4 | 263. | 55. |
| %RSD | .03592 | .22389 | .54721 |
| #1 | 9585.0 | 117350. | 10078. |
| #2 | 9580.2 | 117720. | 10156. |

Sample Name: 280-45136-a-6-o  Acquired: 8/15/2013 23:00:42  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187303 SOIL

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00186** | **152.36** | **.04307** | **.01250** | **.54285** | **.00461** | **-.00669** | **11.896** | **.00169** | **.03816** |
| Stddev | .00041 | .40 | .00302 | .00035 | .00007 | .00002 | .00379 | .008 | .00013 | .00048 |
| %RSD | 22.215 | .25989 | 7.0063 | 2.8084 | .01212 | .37122 | 56.635 | .06896 | 7.5970 | 1.2641 |
| #1 | -.00216 | 152.08 | .04094 | .01275 | .54289 | .00462 | -.00937 | 11.890 | .00160 | .03782 |
| #2 | -.00157 | 152.64 | .04521 | .01225 | .54280 | .00459 | -.00401 | 11.902 | .00178 | .03850 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16563** | **.05762** | **168.49** | **20.177** | **.23041** | **41.606** | **1.8061** | **.00481** | **1.0403** | **.08894** |
| Stddev | .00043 | .00007 | .26 | .076 | .00161 | .010 | .0001 | .00023 | .0077 | .00000 |
| %RSD | .26221 | .12240 | .15243 | .37844 | .69841 | .02303 | .00384 | 4.7861 | .74187 | .00151 |
| #1 | .16532 | .05767 | 168.67 | 20.123 | .23155 | 41.599 | 1.8061 | .00497 | 1.0458 | .08894 |
| #2 | .16594 | .05757 | 168.31 | 20.231 | .22927 | 41.612 | 1.8060 | .00464 | 1.0349 | .08894 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.8754** | **.06018** | **.46026** | **-.00357** | **.00239** | **4.4732** | **9.5727** | **.01480** | **.09330** | **.08754** |
| Stddev | .0028 | .00002 | .00030 | .00060 | .00087 | .0155 | .0332 | .00020 | .00015 | .00194 |
| %RSD | .09633 | .03614 | .06560 | 16.741 | 36.262 | .34687 | .34687 | 1.3803 | .15601 | 2.2140 |
| #1 | 2.8734 | .06017 | .46047 | -.00314 | .00178 | 4.4623 | 9.5492 | .01495 | .09340 | .08617 |
| #2 | 2.8773 | .06020 | .46004 | -.00399 | .00300 | 4.4842 | 9.5962 | .01466 | .09319 | .08891 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.2907** | **.00071** | F **-.28637** | **.30797** | **.39595** | **.01755** |
| Stddev | .0107 | .00005 | .02856 | .00107 | .00116 | .00247 |
| %RSD | .12850 | 7.6216 | 9.9739 | .34782 | .29192 | 14.091 |
| #1 | 8.2982 | .00067 | -.26617 | .30873 | .39514 | .01930 |
| #2 | 8.2831 | .00075 | -.30657 | .30721 | .39677 | .01580 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9515.7** | **115380.** | **9845.1** |
| Stddev | 3.1 | 728. | 76.6 |
| %RSD | .03288 | .63083 | .77780 |
| #1 | 9513.5 | 115900. | 9899.3 |
| #2 | 9517.9 | 114870. | 9791.0 |

Sample Name: 280-45136-a-6-oSD@5 Acquired: 8/15/2013 23:02:53 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187303 SOIL

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00046** | **33.961** | **.01251** | **.00378** | **.12173** | **.00101** | **.00210** | **2.7168** | **.00055** | **.00925** |
| Stddev | .00028 | .018 | .00106 | .00015 | .00005 | .00000 | .00128 | .0095 | .00018 | .00012 |
| %RSD | 60.679 | .05220 | 8.4484 | 3.8416 | .04014 | .08403 | 61.119 | .34974 | 33.676 | 1.2820 |
| #1 | -.00026 | 33.974 | .01326 | .00388 | .12177 | .00101 | .00119 | 2.7101 | .00042 | .00917 |
| #2 | -.00066 | 33.949 | .01176 | .00368 | .12170 | .00101 | .00301 | 2.7235 | .00068 | .00933 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03744** | **.01284** | **38.996** | **4.5220** | **.05103** | **9.1585** | **.40323** | **.00097** | **.28690** | **.02053** |
| Stddev | .00030 | .00072 | .002 | .0163 | .00247 | .0178 | .00063 | .00003 | .00266 | .00005 |
| %RSD | .79707 | 5.5745 | .00438 | .35970 | 4.8469 | .19410 | .15575 | 3.5126 | .92787 | .22313 |
| #1 | .03765 | .01334 | 38.997 | 4.5335 | .05277 | 9.1710 | .40367 | .00095 | .28501 | .02056 |
| #2 | .03723 | .01233 | 38.995 | 4.5105 | .04928 | 9.1459 | .40279 | .00099 | .28878 | .02050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.63294** | **.01248** | **.10132** | **.00001** | **.00182** | **.97983** | **2.0968** | **.00234** | **.02111** | **.01835** |
| Stddev | .00132 | .00126 | .00109 | .00182 | .00175 | .02723 | .0583 | .00009 | .00007 | .00139 |
| %RSD | .20925 | 10.087 | 1.0748 | 23934. | 96.395 | 2.7794 | 2.7794 | 3.8878 | .34455 | 7.5499 |
| #1 | .63388 | .01337 | .10055 | .00130 | .00058 | .99909 | 2.1381 | .00241 | .02105 | .01737 |
| #2 | .63201 | .01159 | .10209 | -.00128 | .00305 | .96058 | 2.0556 | .00228 | .02116 | .01933 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.8183** | **.00048** | W **-.08248** | **.06784** | **.09093** | **.00490** |
| Stddev | .0010 | .00121 | .02270 | .00002 | .00074 | .00109 |
| %RSD | .05646 | 254.05 | 27.515 | .03352 | .81507 | 22.209 |
| #1 | 1.8175 | .00134 | -.09853 | .06782 | .09145 | .00567 |
| #2 | 1.8190 | -.00038 | -.06644 | .06785 | .09040 | .00413 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9120.4** | **112140.** | **9207.8** |
| Stddev | 15.8 | 334. | 98.8 |
| %RSD | .17316 | .29764 | 1.0732 |
| #1 | 9131.6 | 111900. | 9137.9 |
| #2 | 9109.3 | 112380. | 9277.6 |

Sample Name: 280-45136-a-6-p ms  Acquired: 8/15/2013 23:05:06  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187303 SOIL

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04402** | **206.04** | **.96877** | **.87968** | **2.5367** | **.05039** | F **1.9013** | **59.086** | **.09801** | **.47524** |
| Stddev | .00028 | .28 | .00267 | .00051 | .0001 | .00009 | .0051 | .047 | .00034 | .00021 |
| %RSD | .64699 | .13741 | .27556 | .05763 | .00598 | .18234 | .26925 | .08014 | .34250 | .04484 |
| #1 | .04422 | 206.24 | .96688 | .88003 | 2.5366 | .05045 | 1.9049 | 59.119 | .09824 | .47509 |
| #2 | .04382 | 205.84 | .97066 | .87932 | 2.5368 | .05032 | 1.8977 | 59.052 | .09777 | .47539 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37583** | **.30489** | **199.19** | **70.814** | **1.1611** | **92.923** | **2.5733** | **.88353** | **48.872** | **.54431** |
| Stddev | .00009 | .00086 | .52 | .024 | .0020 | .210 | .0140 | .00081 | .342 | .00053 |
| %RSD | .02297 | .28104 | .26135 | .03448 | .17362 | .22553 | .54506 | .09206 | .70059 | .09677 |
| #1 | .37577 | .30550 | 199.56 | 70.831 | 1.1625 | 93.071 | 2.5832 | .88295 | 49.114 | .54394 |
| #2 | .37589 | .30429 | 198.83 | 70.797 | 1.1596 | 92.775 | 2.5634 | .88410 | 48.630 | .54469 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.504** | **.50698** | **.47972** | **.15667** | **1.7869** | **6.9771** | **14.931** | **1.7098** | **1.0253** | **.95646** |
| Stddev | .001 | .00066 | .00049 | .00090 | .0026 | .1224 | .262 | .0079 | .0003 | .00143 |
| %RSD | .01172 | .12928 | .10135 | .57532 | .14279 | 1.7544 | 1.7544 | .45996 | .02691 | .15001 |
| #1 | 12.503 | .50652 | .47938 | .15730 | 1.7851 | 7.0637 | 15.116 | 1.7042 | 1.0251 | .95747 |
| #2 | 12.505 | .50745 | .48007 | .15603 | 1.7887 | 6.8906 | 14.746 | 1.7154 | 1.0254 | .95544 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.857** | **1.6693** | **1.6106** | **.84626** | **.89749** | **.44307** |
| Stddev | .055 | .0045 | .0041 | .00071 | .00109 | .00339 |
| %RSD | .50282 | .27044 | .25443 | .08439 | .12187 | .76594 |
| #1 | 10.896 | 1.6661 | 1.6077 | .84676 | .89826 | .44547 |
| #2 | 10.818 | 1.6725 | 1.6135 | .84575 | .89672 | .44067 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 10.000 | | | | | |
| Low Limit | -.01000 | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9278.7** | **111990.** | **9696.4** |
| Stddev | 10.4 | 313. | 79.1 |
| %RSD | .11245 | .27966 | .81566 |
| #1 | 9286.1 | 111770. | 9640.5 |
| #2 | 9271.3 | 112210. | 9752.3 |

Sample Name: 280-45136-a-6-q msd  Acquired: 8/15/2013 23:07:29  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187303 SOIL

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04454** | **187.52** | **.97233** | **.89482** | **2.4986** | **.04988** | F **1.9332** | **57.767** | **.09905** | **.47379** |
| Stddev | .00039 | .85 | .00052 | .00026 | .0094 | .00021 | .0009 | .257 | .00004 | .00029 |
| %RSD | .88585 | .45147 | .05398 | .02943 | .37732 | .41260 | .04541 | .44569 | .04355 | .06222 |
| #1 | .04482 | 186.92 | .97196 | .89501 | 2.4919 | .04973 | 1.9326 | 57.584 | .09908 | .47358 |
| #2 | .04426 | 188.11 | .97270 | .89464 | 2.5053 | .05003 | 1.9338 | 57.949 | .09902 | .47400 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36315** | **.29718** | **176.84** | **69.401** | **1.1337** | **87.197** | **2.2106** | **.90243** | **49.221** | **.54103** |
| Stddev | .00093 | .00001 | 1.00 | .402 | .0050 | .468 | .0135 | .00223 | .313 | .00146 |
| %RSD | .25524 | .00445 | .56378 | .57876 | .44444 | .53618 | .60910 | .24733 | .63517 | .27058 |
| #1 | .36250 | .29719 | 176.14 | 69.117 | 1.1301 | 87.528 | 2.2010 | .90085 | 49.000 | .54000 |
| #2 | .36381 | .29718 | 177.55 | 69.685 | 1.1372 | 86.867 | 2.2201 | .90401 | 49.442 | .54207 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **12.026** | **.50165** | **.45343** | **.17896** | **1.8058** | **6.5374** | **13.990** | **1.7335** | **1.0199** | **.93348** |
| Stddev | .017 | .00122 | .00242 | .00398 | .0132 | .0731 | .156 | .0025 | .0033 | .00423 |
| %RSD | .13838 | .24323 | .53460 | 2.2228 | .73176 | 1.1185 | 1.1185 | .14178 | .32572 | .45347 |
| #1 | 12.014 | .50079 | .45171 | .18178 | 1.7964 | 6.4857 | 13.879 | 1.7318 | 1.0175 | .93049 |
| #2 | 12.038 | .50251 | .45514 | .17615 | 1.8151 | 6.5891 | 14.101 | 1.7353 | 1.0222 | .93648 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.6893** | **1.6868** | **1.6706** | **.80409** | **.84456** | **.44298** |
| Stddev | .0376 | .0006 | .0301 | .00037 | .00135 | .00528 |
| %RSD | .38803 | .03672 | 1.7988 | .04578 | .15997 | 1.1921 |
| #1 | 9.7158 | 1.6872 | 1.6918 | .80383 | .84551 | .43925 |
| #2 | 9.6627 | 1.6863 | 1.6493 | .80435 | .84360 | .44672 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9137.3** | **111530.** | **9595.2** |
| Stddev | 8.0 | 221. | 38.9 |
| %RSD | .08768 | .19827 | .40583 |
| #1 | 9131.7 | 111370. | 9622.7 |
| #2 | 9143.0 | 111680. | 9567.6 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 23:09:53 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **50.495** | **.00460** | **.00530** | **.00049** | **-.00003** | W **1.0560** | **-.01320** | **.00013** | **.00017** | **.00001** | **.00528** |
| Stddev | .00036 | .114 | .00333 | .00010 | .00020 | .00005 | .0025 | .00132 | .00012 | .00001 | .00004 | .00016 |
| %RSD | 413.33 | .22660 | 72.416 | 1.8268 | 41.509 | 171.46 | .23497 | 10.025 | 93.841 | 5.6598 | 397.70 | 3.0719 |
| #1 | -.00034 | 50.414 | .00225 | .00523 | .00064 | -.00007 | 1.0542 | -.01227 | .00022 | .00016 | .00004 | .00516 |
| #2 | .00017 | 50.576 | .00696 | .00537 | .00035 | .00001 | 1.0577 | -.01414 | .00004 | .00017 | -.00002 | .00539 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.918** | **.22545** | **.00169** | **-.00460** | **.00010** | **.00131** | **258.36** | **.00061** | **.00240** | **.00175** | **5.0323** | **-.00090** |
| Stddev | .235 | .06587 | .00051 | .00072 | .00001 | .00044 | 1.26 | .00032 | .00053 | .00028 | .0029 | .00209 |
| %RSD | .46234 | 29.216 | 30.096 | 15.603 | 14.203 | 33.844 | .48627 | 51.722 | 22.055 | 16.147 | .05658 | 233.18 |
| #1 | 50.752 | .17887 | .00133 | -.00409 | .00011 | .00100 | 257.47 | .00083 | .00278 | .00155 | 5.0343 | .00058 |
| #2 | 51.085 | .27202 | .00205 | -.00511 | .00009 | .00162 | 259.25 | .00039 | .00203 | .00195 | 5.0303 | -.00238 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00256** | **.00634** | **.01357** | **-.00032** | **.00037** | **4.7841** | **.00011** | **.00160** | **10.429** | **.00082** | **.00014** | **.04189** |
| Stddev | .00254 | .00064 | .00136 | .00076 | .00010 | .0097 | .00046 | .00030 | .027 | .00020 | .00008 | .00228 |
| %RSD | 99.402 | 10.060 | 10.060 | 237.73 | 26.768 | .20362 | 421.38 | 18.631 | .26312 | 24.238 | 59.277 | 5.4507 |
| #1 | .00076 | .00589 | .01260 | .00022 | .00030 | 4.7910 | -.00022 | .00139 | 10.449 | .00096 | .00019 | .04028 |
| #2 | .00435 | .00679 | .01453 | -.00085 | .00044 | 4.7772 | .00044 | .00181 | 10.410 | .00068 | .00008 | .04351 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8604.7** | **106130.** | **8907.2** |
| Stddev | 3.0 | 528. | 58.9 |
| %RSD | .03451 | .49726 | .66157 |
| #1 | 8602.6 | 105760. | 8948.9 |
| #2 | 8606.8 | 106510. | 8865.6 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 23:12:14 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49785** | **.50355** | **1.0211** | **.51943** | **.52082** | **.49955** | **.00214** | **5.0831** | **.51213** | **.50469** | **.50763** | **.49938** | **2.5634** |
| Stddev | .00268 | .00197 | .0002 | .00047 | .00192 | .00252 | .00375 | .0177 | .00055 | .00150 | .00082 | .00329 | .0033 |
| %RSD | .53755 | .39093 | .02136 | .09067 | .36828 | .50373 | 175.32 | .34833 | .10751 | .29721 | .16146 | .65971 | .12857 |
| #1 | .49974 | .50216 | 1.0210 | .51976 | .51946 | .49777 | -.00051 | 5.0706 | .51174 | .50363 | .50821 | .50171 | 2.5611 |
| #2 | .49595 | .50494 | 1.0213 | .51909 | .52218 | .50133 | .00479 | 5.0956 | .51252 | .50575 | .50705 | .49705 | 2.5657 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.401** | **.96577** | **19.586** | **.48805** | **.51529** | **5.1389** | **.51258** | **1.0315** | **1.0258** | **-.00522** | **1.0112** | **1.0263** | **4.9931** |
| Stddev | .228 | .00541 | .022 | .00002 | .00016 | .0251 | .00004 | .0030 | .0024 | .00082 | .0023 | .0027 | .0141 |
| %RSD | .45218 | .56017 | .11174 | .00335 | .03055 | .48851 | .00809 | .29335 | .23023 | 15.690 | .22649 | .25919 | .28293 |
| #1 | 50.240 | .96195 | 19.601 | .48806 | .51517 | 5.1212 | .51261 | 1.0294 | 1.0241 | -.00580 | 1.0096 | 1.0281 | 4.9831 |
| #2 | 50.563 | .96960 | 19.570 | .48804 | .51540 | 5.1567 | .51255 | 1.0337 | 1.0274 | -.00464 | 1.0129 | 1.0244 | 5.0030 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.685** | **1.0320** | **.50003** | **-.00511** | **.48751** | **1.0282** | **-.01018** | **.50170** | **.49425** | **.49924** |
| Stddev | .030 | .0016 | .00175 | .00048 | .00003 | .0009 | .04652 | .00068 | .00346 | .00277 |
| %RSD | .28293 | .15149 | .35098 | 9.3016 | .00533 | .08881 | 457.07 | .13636 | .69969 | .55497 |
| #1 | 10.664 | 1.0331 | .49879 | -.00477 | .48749 | 1.0288 | -.04307 | .50219 | .49181 | .49728 |
| #2 | 10.707 | 1.0309 | .50127 | -.00545 | .48752 | 1.0275 | .02271 | .50122 | .49670 | .50119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8820.6** | **109670.** | **8886.5** |
| Stddev | 23.2 | 855. | 58.6 |
| %RSD | .26273 | .77945 | .65990 |
| #1 | 8837.0 | 110270. | 8928.0 |
| #2 | 8804.2 | 109060. | 8845.0 |

Sample Name: CCB Acquired: 8/15/2013 23:14:21 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00026** | **.00033** | **.00239** | **.00207** | **.00013** | **.00004** | **.00550** | **-.00198** | **.00004** | **.00004** | **.00000** | **.00032** |
| Stddev | .00009 | .00027 | .00209 | .00038 | .00039 | .00007 | .00085 | .00146 | .00015 | .00017 | .00000 | .00004 |
| %RSD | 33.439 | 83.008 | 87.453 | 18.242 | 300.38 | 186.46 | 15.425 | 73.680 | 379.18 | 366.87 | 89.068 | 12.391 |
| #1 | .00020 | .00052 | .00387 | .00234 | -.00015 | -.00001 | .00610 | -.00301 | .00015 | -.00007 | .00000 | .00030 |
| #2 | .00033 | .00014 | .00091 | .00180 | .00041 | .00009 | .00490 | -.00095 | -.00007 | .00016 | .00001 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00219** | **.10549** | **-.00150** | **.00300** | **.00005** | **.00069** | **.08928** | **.00004** | **.00056** | **-.00132** | **-.00101** | W **.00323** |
| Stddev | .00365 | .01315 | .00266 | .00236 | .00007 | .00005 | .01309 | .00000 | .00052 | .00104 | .00065 | .00077 |
| %RSD | 166.55 | 12.469 | 176.91 | 78.607 | 136.34 | 7.6942 | 14.663 | 1.2778 | 92.484 | 78.522 | 64.387 | 23.905 |
| #1 | -.00039 | .11479 | .00038 | .00133 | .00010 | .00073 | .09853 | .00004 | .00019 | -.00059 | -.00055 | .00268 |
| #2 | .00477 | .09619 | -.00338 | .00466 | .00000 | .00066 | .08002 | .00004 | .00093 | -.00206 | -.00146 | .00377 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00213** | **.01149** | **.02459** | **-.00107** | **.00000** | **-.00022** | **.00007** | **.00076** | **-.02457** | **-.00037** | **.00110** | W **.00469** |
| Stddev | .00145 | .01538 | .03292 | .00069 | .0000 | .00156 | .00011 | .00078 | .00812 | .00005 | .00010 | .00139 |
| %RSD | 68.337 | 133.89 | 133.89 | 64.659 | 650.27 | 723.92 | 167.30 | 102.55 | 33.055 | 13.932 | 8.9787 | 29.550 |
| #1 | .00110 | .02237 | .04786 | -.00156 | -.00002 | -.00132 | -.00001 | .00021 | -.01883 | -.00041 | .00117 | .00567 |
| #2 | .00315 | .00061 | .00131 | -.00058 | .00001 | .00089 | .00015 | .00132 | -.03031 | -.00034 | .00103 | .00371 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8852.2** | **111130.** | **8908.6** |
| Stddev | 2.2 | 233. | 11.2 |
| %RSD | .02518 | .21002 | .12622 |
| #1 | 8853.8 | 110970. | 8916.5 |
| #2 | 8850.6 | 111300. | 8900.6 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 23:16:36 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01045** | **.10616** | **.01753** | **.10419** | **.01090** | **.00098** | **.12499** | **.20884** | **.00545** | **.01085** | **.01050** | **.01535** | **.10459** |
| Stddev | .00045 | .00015 | .00170 | .00031 | .00019 | .00002 | .00121 | .00244 | .00013 | .00014 | .00012 | .00009 | .00015 |
| %RSD | 4.3481 | .14110 | 9.6911 | .30061 | 1.7632 | 2.1081 | .97090 | 1.1678 | 2.4485 | 1.3160 | 1.1709 | .55569 | .13942 |
| #1 | .01078 | .10627 | .01633 | .10397 | .01076 | .00100 | .12585 | .21056 | .00555 | .01075 | .01058 | .01541 | .10449 |
| #2 | .01013 | .10605 | .01873 | .10441 | .01104 | .00097 | .12413 | .20711 | .00536 | .01096 | .01041 | .01529 | .10469 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1941** | **.00893** | **.21168** | **.01029** | **.02020** | **1.1254** | **.04330** | **3.0725** | **.00819** | **-.00443** | **.00949** | **.01808** | **.50234** |
| Stddev | .0187 | .00041 | .00087 | .00001 | .00012 | .0040 | .00017 | .0012 | .00073 | .00049 | .00004 | .00339 | .00994 |
| %RSD | .58465 | 4.6197 | .41006 | .09957 | .57971 | .35265 | .38751 | .03864 | 8.8736 | 11.041 | .42555 | 18.771 | 1.9794 |
| #1 | 3.1809 | .00922 | .21230 | .01028 | .02028 | 1.1226 | .04342 | 3.0733 | .00870 | -.00409 | .00952 | .01568 | .49531 |
| #2 | 3.2073 | .00864 | .21107 | .01030 | .02011 | 1.1282 | .04318 | 3.0717 | .00768 | -.00478 | .00946 | .02048 | .50937 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0750** | **.10478** | **.01014** | **.01099** | **.01019** | **.01724** | **.07232** | **.00992** | **.02200** | **.01729** |
| Stddev | .0213 | .00003 | .00005 | .00032 | .00028 | .00048 | .00217 | .00001 | .00015 | .00216 |
| %RSD | 1.9794 | .03132 | .46141 | 2.9284 | 2.7804 | 2.7560 | 2.9982 | .11834 | .70393 | 12.510 |
| #1 | 1.0600 | .10481 | .01010 | .01122 | .01039 | .01758 | .07078 | .00991 | .02211 | .01576 |
| #2 | 1.0901 | .10476 | .01017 | .01076 | .00999 | .01691 | .07385 | .00993 | .02189 | .01882 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9011.4** | **112260.** | **8988.8** |
| Stddev | 32.8 | 823. | 20.3 |
| %RSD | .36411 | .73313 | .22578 |
| #1 | 9034.6 | 112840. | 9003.2 |
| #2 | 8988.2 | 111680. | 8974.5 |

Sample Name: mb 280-187297/1-a  Acquired: 8/15/2013 23:18:53  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187297  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.00168** | **.00133** | **.00149** | **.00039** | **.00003** | **.00194** | **.00355** | **.00022** | **-.00007** |
| Stddev | .00038 | .00031 | .00094 | .00021 | .00006 | .00002 | .00174 | .00258 | .00009 | .00012 |
| %RSD | 433.16 | 18.418 | 70.319 | 13.896 | 15.196 | 79.460 | 89.583 | 72.791 | 40.115 | 173.96 |
| #1 | -.00036 | .00146 | .00067 | .00134 | .00035 | .00004 | .00071 | .00172 | .00028 | -.00015 |
| #2 | .00018 | .00190 | .00200 | .00164 | .00044 | .00001 | .00317 | .00538 | .00015 | .00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.00015** | **.00518** | **.06121** | **.00210** | **.00064** | **.00016** | **.00001** | **.07219** | **-.00009** |
| Stddev | .00004 | .00038 | .00249 | .05426 | .00265 | .00115 | .00006 | .00010 | .00194 | .00003 |
| %RSD | 107.82 | 256.08 | 48.025 | 88.634 | 126.12 | 180.78 | 39.734 | 693.40 | 2.6937 | 36.381 |
| #1 | -.00001 | .00042 | .00694 | .09958 | .00023 | -.00018 | .00020 | -.00006 | .07357 | -.00006 |
| #2 | -.00006 | -.00012 | .00342 | .02285 | .00397 | .00145 | .00011 | .00009 | .07082 | -.00011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **-.00042** | **-.00339** | **-.00130** | **.00074** | **.01629** | **.03486** | **-.00048** | **-.00006** | **.00207** |
| Stddev | .00131 | .00119 | .00087 | .00062 | .00024 | .00114 | .00245 | .00024 | .00015 | .00050 |
| %RSD | 93.448 | 281.39 | 25.778 | 47.591 | 32.575 | 7.0256 | 7.0256 | 49.223 | 258.82 | 24.169 |
| #1 | .00048 | -.00126 | -.00277 | -.00173 | .00090 | .01710 | .03659 | -.00065 | .00005 | .00171 |
| #2 | .00233 | .00042 | -.00400 | -.00086 | .00057 | .01548 | .03313 | -.00032 | -.00017 | .00242 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00000** | **-.02968** | **-.00048** | **.00168** | **.00330** |
| Stddev | .00009 | .00049 | .00542 | .00019 | .00003 | .00143 |
| %RSD | 19.918 | 21023. | 18.274 | 39.203 | 1.7415 | 43.337 |
| #1 | .00053 | -.00034 | -.03351 | -.00062 | .00165 | .00229 |
| #2 | .00040 | .00035 | -.02584 | -.00035 | .00170 | .00431 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8861.5** | **112360.** | **8965.6** |
| Stddev | 26.1 | 471. | 33.5 |
| %RSD | .29398 | .41945 | .37314 |
| #1 | 8879.9 | 112030. | 8989.3 |
| #2 | 8843.1 | 112690. | 8942.0 |

Sample Name: lcs 280-187297/2-a  Acquired: 8/15/2013 23:21:07  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187297  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04932** | **1.9169** | **1.0374** | **1.0301** | **2.1279** | **.05059** | **2.1684** | **51.052** | **.10854** | **.49686** |
| Stddev | .00026 | .0017 | .0004 | .0009 | .0019 | .00005 | .0036 | .015 | .00024 | .00022 |
| %RSD | .53318 | .08851 | .03344 | .08731 | .09111 | .09505 | .16620 | .02904 | .22065 | .04358 |
| #1 | .04951 | 1.9157 | 1.0372 | 1.0307 | 2.1293 | .05063 | 2.1709 | 51.063 | .10871 | .49671 |
| #2 | .04913 | 1.9181 | 1.0377 | 1.0295 | 2.1265 | .05056 | 2.1658 | 51.042 | .10837 | .49702 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20506** | **.25417** | **1.0419** | **51.483** | **.98196** | **48.993** | **.48766** | **1.0406** | **52.780** | **.50386** |
| Stddev | .00051 | .00057 | .0029 | .038 | .00520 | .017 | .00043 | .0036 | .048 | .00054 |
| %RSD | .24998 | .22602 | .28165 | .07467 | .52961 | .03498 | .08790 | .35026 | .09125 | .10703 |
| #1 | .20542 | .25458 | 1.0440 | 51.510 | .97828 | 49.005 | .48736 | 1.0432 | 52.746 | .50424 |
| #2 | .20469 | .25377 | 1.0398 | 51.455 | .98564 | 48.981 | .48796 | 1.0380 | 52.814 | .50348 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.508** | **.50790** | **-.01411** | **.49170** | **2.0343** | **10.253** | **21.942** | **2.0630** | **1.0210** | **.95520** |
| Stddev | .027 | .00009 | .00266 | .00256 | .0027 | .102 | .218 | .0009 | .0036 | .00688 |
| %RSD | .25579 | .01835 | 18.868 | .52058 | .13487 | .99305 | .99305 | .04472 | .35158 | .72060 |
| #1 | 10.527 | .50797 | -.01599 | .48989 | 2.0363 | 10.325 | 22.096 | 2.0636 | 1.0185 | .95033 |
| #2 | 10.489 | .50783 | -.01223 | .49351 | 2.0324 | 10.181 | 21.788 | 2.0623 | 1.0236 | .96007 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99160** | **1.9814** | **2.1448** | **.50992** | **.49031** | **.51968** |
| Stddev | .00087 | .0014 | .0486 | .00008 | .00138 | .00703 |
| %RSD | .08797 | .07164 | 2.2681 | .01591 | .28162 | 1.3536 |
| #1 | .99098 | 1.9804 | 2.1792 | .50986 | .48934 | .52465 |
| #2 | .99221 | 1.9824 | 2.1104 | .50998 | .49129 | .51470 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8559.4** | **106240.** | **8852.2** |
| Stddev | 19.9 | 46. | 24.3 |
| %RSD | .23274 | .04375 | .27484 |
| #1 | 8545.3 | 106210. | 8835.0 |
| #2 | 8573.5 | 106270. | 8869.4 |

Sample Name: lcsd 280-187297/3-a  Acquired: 8/15/2013 23:23:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187297  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04946** | **1.9085** | **1.0226** | **1.0245** | **2.0918** | **.05016** | **2.1435** | **50.388** | **.10696** | **.49259** |
| Stddev | .00023 | .0014 | .0031 | .0006 | .0030 | .00006 | .0035 | .118 | .00018 | .00121 |
| %RSD | .45730 | .07442 | .29794 | .05922 | .14208 | .12859 | .16230 | .23479 | .16598 | .24466 |
| #1 | .04962 | 1.9095 | 1.0204 | 1.0241 | 2.0897 | .05021 | 2.1460 | 50.304 | .10683 | .49344 |
| #2 | .04930 | 1.9075 | 1.0247 | 1.0249 | 2.0939 | .05012 | 2.1411 | 50.472 | .10709 | .49174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20388** | **.25298** | **1.0535** | **50.880** | **.96999** | **48.508** | **.48549** | **1.0344** | **51.857** | **.49969** |
| Stddev | .00013 | .00001 | .0001 | .158 | .00164 | .032 | .00163 | .0007 | .090 | .00141 |
| %RSD | .06226 | .00563 | .01457 | .31029 | .16887 | .06558 | .33567 | .06642 | .17427 | .28297 |
| #1 | .20379 | .25299 | 1.0537 | 50.768 | .97115 | 48.531 | .48434 | 1.0349 | 51.921 | .50069 |
| #2 | .20397 | .25297 | 1.0534 | 50.992 | .96883 | 48.486 | .48664 | 1.0339 | 51.793 | .49869 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.389** | **.50271** | **-.01123** | **.48551** | **2.0102** | **10.151** | **21.724** | **2.0448** | **1.0093** | **.95165** |
| Stddev | .000 | .00121 | .00217 | .00013 | .0011 | .039 | .084 | .0096 | .0011 | .00422 |
| %RSD | .00158 | .24163 | 19.320 | .02678 | .05317 | .38650 | .38650 | .47030 | .10842 | .44331 |
| #1 | 10.389 | .50357 | -.00970 | .48542 | 2.0110 | 10.124 | 21.665 | 2.0380 | 1.0085 | .94867 |
| #2 | 10.389 | .50185 | -.01277 | .48561 | 2.0095 | 10.179 | 21.783 | 2.0516 | 1.0100 | .95464 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98994** | **1.9604** | **2.0821** | **.50756** | **.48527** | **.51210** |
| Stddev | .00425 | .0005 | .0490 | .00288 | .00156 | .00251 |
| %RSD | .42886 | .02714 | 2.3529 | .56780 | .32151 | .49018 |
| #1 | .98694 | 1.9601 | 2.0475 | .50552 | .48417 | .51033 |
| #2 | .99294 | 1.9608 | 2.1168 | .50960 | .48637 | .51388 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8587.3** | **106690.** | **8858.7** |
| Stddev | 13.5 | 172. | 12.4 |
| %RSD | .15678 | .16134 | .13998 |
| #1 | 8577.8 | 106810. | 8849.9 |
| #2 | 8596.8 | 106570. | 8867.5 |

Sample Name: 280-44895-e-1-h  Acquired: 8/15/2013 23:25:20  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187297  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00020** | **15.279** | **.00297** | **.02869** | **.31603** | **.00096** | **.00203** | **33.144** | **.00056** | **.00803** |
| Stddev | .00055 | .048 | .00155 | .00012 | .00127 | .00003 | .00554 | .029 | .00009 | .00007 |
| %RSD | 275.76 | .31722 | 52.361 | .40300 | .40271 | 2.9445 | 272.74 | .08733 | 16.715 | .89878 |
| #1 | -.00059 | 15.244 | .00407 | .02877 | .31693 | .00094 | -.00189 | 33.165 | .00049 | .00798 |
| #2 | .00019 | 15.313 | .00187 | .02861 | .31513 | .00098 | .00595 | 33.124 | .00062 | .00808 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01553** | **.02731** | **12.910** | **4.8353** | **.01817** | **9.7648** | **.33669** | **.00238** | **40.696** | **.01366** |
| Stddev | .00008 | .00014 | .016 | .0229 | .00220 | .0113 | .00054 | .00018 | .097 | .00011 |
| %RSD | .51580 | .51412 | .12493 | .47308 | 12.124 | .11580 | .15943 | 7.7047 | .23715 | .79496 |
| #1 | .01547 | .02741 | 12.899 | 4.8191 | .01661 | 9.7728 | .33707 | .00225 | 40.627 | .01374 |
| #2 | .01558 | .02721 | 12.921 | 4.8514 | .01973 | 9.7568 | .33631 | .00251 | 40.764 | .01358 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.21209** | **.01045** | **7.9925** | **-.00499** | **.00400** | **26.214** | **56.098** | **-.00018** | **.30011** | **.00330** |
| Stddev | .00103 | .00095 | .0224 | .00289 | .00016 | .105 | .225 | .00006 | .00085 | .00150 |
| %RSD | .48757 | 9.1249 | .28050 | 58.004 | 4.0884 | .40107 | .40107 | 36.238 | .28327 | 45.374 |
| #1 | .21136 | .00977 | 7.9767 | -.00704 | .00411 | 26.288 | 56.257 | -.00013 | .30071 | .00436 |
| #2 | .21282 | .01112 | 8.0084 | -.00294 | .00388 | 26.140 | 55.939 | -.00022 | .29951 | .00224 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.26124** | **.00145** | **-.03112** | **.03023** | **.06452** | **.00879** |
| Stddev | .00677 | .00035 | .02150 | .00026 | .00020 | .00163 |
| %RSD | 2.5912 | 24.484 | 69.100 | .86341 | .30605 | 18.523 |
| #1 | .25645 | .00120 | -.04632 | .03005 | .06466 | .00994 |
| #2 | .26603 | .00170 | -.01591 | .03042 | .06438 | .00764 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8963.5** | **110420.** | **9089.6** |
| Stddev | 26.6 | 173. | 47.7 |
| %RSD | .29687 | .15696 | .52452 |
| #1 | 8982.3 | 110540. | 9055.9 |
| #2 | 8944.6 | 110290. | 9123.3 |

Sample Name: 280-44895-e-1-hSD@5 Acquired: 8/15/2013 23:27:34 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187297 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **3.6484** | **.00123** | **.00817** | **.07149** | **.00017** | **.00208** | **7.5402** | **.00019** | **.00176** |
| Stddev | .00040 | .0111 | .00040 | .00023 | .00028 | .00000 | .00179 | .0097 | .00006 | .00010 |
| %RSD | 1614.4 | .30429 | 32.572 | 2.7764 | .39184 | .16818 | 86.252 | .12904 | 31.774 | 5.8440 |
| #1 | -.00025 | 3.6563 | .00095 | .00833 | .07129 | .00017 | .00334 | 7.5333 | .00023 | .00169 |
| #2 | .00030 | 3.6406 | .00152 | .00801 | .07169 | .00017 | .00081 | 7.5471 | .00015 | .00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00372** | **.00571** | **2.9742** | **1.1673** | **.00705** | **2.2275** | **.07705** | **.00026** | **9.0037** | **.00355** |
| Stddev | .00001 | .00011 | .0225 | .0461 | .00030 | .0017 | .00013 | .00015 | .0016 | .00031 |
| %RSD | .32757 | 1.8402 | .75754 | 3.9511 | 4.2409 | .07815 | .16345 | 57.336 | .01753 | 8.8714 |
| #1 | .00371 | .00579 | 2.9583 | 1.1999 | .00726 | 2.2287 | .07696 | .00016 | 9.0048 | .00333 |
| #2 | .00373 | .00564 | 2.9902 | 1.1346 | .00684 | 2.2263 | .07714 | .00037 | 9.0026 | .00377 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04825** | **.00160** | **1.7676** | **-.00360** | **.00058** | **6.2608** | **13.398** | **-.00069** | **.06829** | **.00063** |
| Stddev | .00137 | .00060 | .0028 | .00119 | .00126 | .0210 | .045 | .00019 | .00041 | .00179 |
| %RSD | 2.8352 | 37.879 | .15859 | 32.994 | 215.42 | .33456 | .33456 | 27.862 | .59562 | 284.05 |
| #1 | .04729 | .00202 | 1.7656 | -.00276 | -.00030 | 6.2460 | 13.366 | -.00056 | .06800 | -.00063 |
| #2 | .04922 | .00117 | 1.7696 | -.00444 | .00147 | 6.2756 | 13.430 | -.00083 | .06858 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06426** | **-.00018** | **.00549** | **.00621** | **.01727** | **.00452** |
| Stddev | .00027 | .00022 | .03773 | .00034 | .00004 | .00249 |
| %RSD | .42382 | 121.10 | 686.83 | 5.3978 | .22496 | 54.946 |
| #1 | .06406 | -.00003 | .03217 | .00597 | .01725 | .00628 |
| #2 | .06445 | -.00034 | -.02118 | .00645 | .01730 | .00277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8923.8** | **110800.** | **8943.7** |
| Stddev | 26.9 | 169. | 73.9 |
| %RSD | .30092 | .15282 | .82601 |
| #1 | 8904.8 | 110680. | 8891.5 |
| #2 | 8942.8 | 110920. | 8996.0 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 23:29:51 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **50.671** | **.00479** | **.00280** | **.00078** | **-.00004** | W **1.0562** | **-.01058** | **.00006** | **.00007** | **-.00012** | **.00353** |
| Stddev | .00066 | .157 | .00087 | .00053 | .00009 | .00005 | .0003 | .00469 | .00010 | .00013 | .00004 | .00047 |
| %RSD | 78.826 | .30903 | 18.082 | 19.013 | 11.117 | 132.48 | .02539 | 44.344 | 155.58 | 167.26 | 30.261 | 13.368 |
| #1 | .00037 | 50.560 | .00417 | .00318 | .00072 | -.00008 | 1.0560 | -.01389 | -.00001 | .00016 | -.00015 | .00320 |
| #2 | .00130 | 50.782 | .00540 | .00242 | .00085 | .00000 | 1.0564 | -.00726 | .00013 | -.00001 | -.00010 | .00386 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.568** | **.15616** | **.00022** | **-.00510** | **.00005** | **-.00011** | **258.70** | **.00051** | **.00292** | **.00078** | **5.0847** | **-.00213** |
| Stddev | .401 | .07358 | .00127 | .00138 | .00001 | .00001 | 1.03 | .00032 | .00246 | .00064 | .0143 | .00061 |
| %RSD | .79395 | 47.120 | 586.49 | 27.142 | 17.172 | 8.4069 | .39715 | 63.147 | 84.239 | 82.115 | .28195 | 28.651 |
| #1 | 50.284 | .10413 | .00111 | -.00608 | .00005 | -.00012 | 257.98 | .00073 | .00118 | .00123 | 5.0746 | -.00170 |
| #2 | 50.851 | .20819 | -.00068 | -.00412 | .00006 | -.00011 | 259.43 | .00028 | .00465 | .00033 | 5.0949 | -.00257 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00226** | **.01152** | **.02466** | **-.00045** | **.00035** | **4.8402** | **-.00017** | **.00247** | **10.398** | **.00068** | **-.00019** | **.03671** |
| Stddev | .00035 | .00123 | .00263 | .00001 | .00001 | .0036 | .00011 | .00035 | .036 | .00013 | .00027 | .00311 |
| %RSD | 15.285 | 10.647 | 10.647 | 2.8902 | 3.9392 | .07503 | 63.236 | 14.000 | .34391 | 18.968 | 142.98 | 8.4807 |
| #1 | -.00202 | .01066 | .02280 | -.00044 | .00036 | 4.8428 | -.00010 | .00272 | 10.373 | .00077 | .00000 | .03450 |
| #2 | -.00251 | .01239 | .02652 | -.00046 | .00034 | 4.8376 | -.00025 | .00223 | 10.423 | .00059 | -.00038 | .03891 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8663.7** | **107060.** | **9003.5** |
| Stddev | 19.7 | 138. | 5.3 |
| %RSD | .22681 | .12908 | .05877 |
| #1 | 8649.8 | 107160. | 8999.8 |
| #2 | 8677.6 | 106960. | 9007.3 |

Sample Name: CCV-2200393 Acquired: 8/15/2013 23:32:11 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49617** | **.52643** | **1.0117** | **.51868** | **.51589** | **.50229** | **.00375** | **5.0805** | **.51349** | **.50651** | **.50497** | **.50230** | **2.5760** |
| Stddev | .00036 | .00183 | .0006 | .00033 | .00312 | .00174 | .00180 | .0102 | .00044 | .00027 | .00017 | .00123 | .0129 |
| %RSD | .07184 | .34846 | .06235 | .06329 | .60523 | .34642 | 48.073 | .20124 | .08495 | .05237 | .03410 | .24490 | .49887 |
| #1 | .49591 | .52773 | 1.0112 | .51845 | .51368 | .50106 | .00502 | 5.0732 | .51318 | .50670 | .50485 | .50143 | 2.5670 |
| #2 | .49642 | .52514 | 1.0121 | .51892 | .51810 | .50352 | .00247 | 5.0877 | .51380 | .50633 | .50509 | .50317 | 2.5851 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.479** | **.96727** | **19.340** | **.48833** | **.51064** | **5.2181** | **.51052** | **1.0254** | **1.0237** | **-.00274** | **1.0207** | **1.0228** | **5.0193** |
| Stddev | .178 | .00118 | .023 | .00079 | .00005 | .0170 | .00055 | .0018 | .0020 | .00039 | .0067 | .0054 | .0673 |
| %RSD | .35273 | .12224 | .11871 | .16138 | .01028 | .32563 | .10803 | .17977 | .19231 | 14.066 | .66084 | .52455 | 1.3400 |
| #1 | 50.354 | .96644 | 19.356 | .48888 | .51060 | 5.2060 | .51013 | 1.0268 | 1.0223 | -.00302 | 1.0255 | 1.0190 | 4.9718 |
| #2 | 50.605 | .96811 | 19.324 | .48777 | .51068 | 5.2301 | .51091 | 1.0241 | 1.0251 | -.00247 | 1.0160 | 1.0266 | 5.0669 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.741** | **1.0225** | **.50230** | **-.00354** | **.49069** | **1.0320** | **-.00407** | **.50116** | **.48913** | **.50488** |
| Stddev | .144 | .0015 | .00182 | .00050 | .00102 | .0002 | .03315 | .00113 | .00123 | .00284 |
| %RSD | 1.3400 | .14320 | .36278 | 14.240 | .20696 | .01795 | 815.55 | .22571 | .25062 | .56232 |
| #1 | 10.640 | 1.0235 | .50101 | -.00319 | .49141 | 1.0321 | -.02751 | .50196 | .49000 | .50287 |
| #2 | 10.843 | 1.0214 | .50359 | -.00390 | .48997 | 1.0318 | .01938 | .50036 | .48826 | .50689 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8879.3** | **110540.** | **9043.9** |
| Stddev | 12.3 | 299. | 69.5 |
| %RSD | .13825 | .27043 | .76861 |
| #1 | 8888.0 | 110330. | 9093.0 |
| #2 | 8870.6 | 110750. | 8994.7 |

Sample Name: CCB  Acquired: 8/15/2013 23:34:18  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00010** | **.00342** | **.00143** | **.00185** | **-.00005** | **.00004** | **.00282** | **-.00182** | **.00014** | **.00014** | **-.00015** | **.00002** |
| Stddev | .00021 | .00039 | .00061 | .00013 | .00049 | .00007 | .00060 | .00072 | .00011 | .00001 | .00002 | .00011 |
| %RSD | 218.93 | 11.477 | 42.709 | 7.2274 | 976.34 | 167.82 | 21.117 | 39.723 | 81.083 | 8.8963 | 10.785 | 650.61 |
| #1 | .00025 | .00315 | .00100 | .00195 | .00029 | .00009 | .00240 | -.00131 | .00006 | .00015 | -.00016 | -.00006 |
| #2 | -.00005 | .00370 | .00186 | .00176 | -.00039 | -.00001 | .00324 | -.00234 | .00022 | .00013 | -.00014 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.09297** | **.00113** | **.00191** | **.00004** | **.00066** | W **.12389** | **.00006** | **-.00038** | **-.00081** | **-.00253** | W **.00601** |
| Stddev | .00207 | .06273 | .00047 | .00020 | .00002 | .00012 | .01615 | .00012 | .00025 | .00013 | .00072 | .00212 |
| %RSD | 213.89 | 67.473 | 41.996 | 10.340 | 58.128 | 18.121 | 13.034 | 196.66 | 65.599 | 16.373 | 28.609 | 35.265 |
| #1 | -.00050 | .13733 | .00079 | .00205 | .00002 | .00074 | .11247 | -.00002 | -.00056 | -.00072 | -.00304 | .00451 |
| #2 | .00243 | .04862 | .00146 | .00177 | .00005 | .00058 | .13531 | .00014 | -.00020 | -.00091 | -.00202 | .00751 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00187** | **-.00596** | **-.01275** | **-.00071** | **.00002** | **.00151** | **.00015** | **.00096** | **-.00046** | **-.00021** | **.00127** | F **.00504** |
| Stddev | .00110 | .00465 | .00995 | .00044 | .00006 | .00287 | .00020 | .00073 | .01831 | .00023 | .00006 | .00080 |
| %RSD | 58.845 | 78.052 | 78.052 | 62.829 | 243.89 | 189.44 | 135.18 | 75.980 | 3954.0 | 108.85 | 5.0853 | 15.807 |
| #1 | .00109 | -.00924 | -.01978 | -.00039 | .00007 | -.00051 | .00029 | .00147 | .01249 | -.00005 | .00132 | .00560 |
| #2 | .00265 | -.00267 | -.00571 | -.00102 | -.00002 | .00354 | .00001 | .00044 | -.01341 | -.00037 | .00123 | .00448 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | | | | | | .00476 |
| Low Limit | | | | | | | | | | | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8989.1** | **112220.** | **9028.1** |
| Stddev | 2.0 | 448. | 27.9 |
| %RSD | .02210 | .39900 | .30949 |
| #1 | 8987.7 | 112540. | 9008.3 |
| #2 | 8990.5 | 111900. | 9047.8 |

Sample Name: CCVL2200397 Acquired: 8/15/2013 23:36:32 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01060** | **.10629** | **.01827** | **.10353** | **.01038** | **.00101** | **.12477** | **.20757** | **.00539** | **.01071** | **.01038** | **.01569** | **.10112** |
| Stddev | .00031 | .00014 | .00028 | .00044 | .00050 | .00007 | .00313 | .00055 | .00019 | .00039 | .00012 | .00059 | .00282 |
| %RSD | 2.9543 | .13241 | 1.5296 | .42631 | 4.8149 | 7.0582 | 2.5110 | .26411 | 3.4443 | 3.6363 | 1.1464 | 3.7593 | 2.7860 |
| #1 | .01038 | .10639 | .01847 | .10384 | .01074 | .00096 | .12698 | .20718 | .00552 | .01098 | .01047 | .01611 | .09913 |
| #2 | .01082 | .10619 | .01808 | .10322 | .01003 | .00106 | .12255 | .20796 | .00526 | .01043 | .01030 | .01528 | .10311 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2006** | **.00955** | **.20734** | **.01025** | **.01975** | **1.1465** | **.04296** | **3.0453** | **.00865** | **-.00347** | **.00700** | **.01683** | **.50745** |
| Stddev | .0156 | .00149 | .00012 | .00002 | .00006 | .0173 | .00010 | .0102 | .00006 | .00051 | .00078 | .00243 | .00124 |
| %RSD | .48582 | 15.582 | .05879 | .17094 | .32814 | 1.5058 | .22285 | .33559 | .72538 | 14.600 | 11.127 | 14.423 | .24521 |
| #1 | 3.2116 | .01061 | .20743 | .01023 | .01971 | 1.1587 | .04289 | 3.0525 | .00860 | -.00311 | .00755 | .01854 | .50657 |
| #2 | 3.1896 | .00850 | .20726 | .01026 | .01980 | 1.1343 | .04303 | 3.0381 | .00869 | -.00382 | .00645 | .01511 | .50833 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0859** | **.10410** | **.01025** | **.01306** | **.01014** | **.01741** | **.05018** | **.00940** | **.02136** | F **.02031** |
| Stddev | .0027 | .00108 | .00006 | .00033 | .00033 | .00099 | .01803 | .00025 | .00008 | .00028 |
| %RSD | .24521 | 1.0350 | .57417 | 2.5606 | 3.3033 | 5.6861 | 35.923 | 2.6770 | .37249 | 1.4008 |
| #1 | 1.0840 | .10486 | .01021 | .01282 | .00990 | .01671 | .03744 | .00923 | .02142 | .02051 |
| #2 | 1.0878 | .10334 | .01029 | .01329 | .01038 | .01811 | .06293 | .00958 | .02131 | .02010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9168.1** | **114820.** | **9233.4** |
| Stddev | 8.5 | 282. | 83.5 |
| %RSD | .09224 | .24540 | .90436 |
| #1 | 9162.1 | 114620. | 9292.4 |
| #2 | 9174.0 | 115020. | 9174.3 |

Sample Name: mb 280-187265/1-a  Acquired: 8/15/2013 23:38:47  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.00240** | **.00095** | **.00136** | **.00009** | **-.00002** | **.00453** | **.00541** | **.00022** | **.00000** |
| Stddev | .00033 | .00006 | .00299 | .00021 | .00012 | .00004 | .00143 | .00120 | .00012 | .00013 |
| %RSD | 1162.0 | 2.3656 | 314.49 | 15.273 | 122.04 | 220.05 | 31.519 | 22.150 | 55.599 | 4570.8 |
| #1 | -.00021 | .00244 | -.00116 | .00121 | .00018 | .00001 | .00554 | .00625 | .00014 | -.00009 |
| #2 | .00026 | .00236 | .00306 | .00150 | .00001 | -.00004 | .00352 | .00456 | .00031 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **.00016** | **.00283** | **.05608** | **-.00064** | **.00142** | **.00021** | **-.00006** | **.09845** | **.00014** |
| Stddev | .0000 | .00053 | .00135 | .03715 | .00192 | .00004 | .00004 | .00009 | .02019 | .00020 |
| %RSD | 279.43 | 325.62 | 47.784 | 66.241 | 302.44 | 2.7603 | 20.174 | 163.75 | 20.504 | 144.97 |
| #1 | -.00001 | .00054 | .00378 | .02981 | .00072 | .00145 | .00018 | .00001 | .08417 | .00028 |
| #2 | .00000 | -.00021 | .00187 | .08234 | -.00199 | .00140 | .00024 | -.00012 | .11272 | .00000 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00078** | **-.00127** | **.00028** | **-.00215** | **.00145** | **.02378** | **.05088** | **-.00084** | **.00006** | **.00111** |
| Stddev | .00082 | .00009 | .00257 | .00036 | .00022 | .01296 | .02774 | .00023 | .00006 | .00326 |
| %RSD | 104.28 | 6.8420 | 917.10 | 16.627 | 15.065 | 54.517 | 54.517 | 27.633 | 99.918 | 293.73 |
| #1 | .00136 | -.00133 | -.00154 | -.00240 | .00160 | .01461 | .03127 | -.00101 | .00009 | -.00120 |
| #2 | .00021 | -.00121 | .00210 | -.00190 | .00129 | .03294 | .07050 | -.00068 | .00002 | .00342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **-.00013** | **-.00773** | **-.00063** | **.00183** | **.00460** |
| Stddev | .00012 | .00067 | .06659 | .00045 | .00008 | .00039 |
| %RSD | 27.230 | 528.46 | 860.99 | 72.141 | 4.2847 | 8.4773 |
| #1 | .00036 | -.00060 | .03935 | -.00031 | .00189 | .00432 |
| #2 | .00053 | .00035 | -.05482 | -.00094 | .00178 | .00488 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9033.6** | **113720.** | **9173.8** |
| Stddev | 28.0 | 819. | 23.9 |
| %RSD | .30981 | .72031 | .26105 |
| #1 | 9013.8 | 114300. | 9190.7 |
| #2 | 9053.3 | 113140. | 9156.8 |

Sample Name: lcs 280-187265/2-a  Acquired: 8/15/2013 23:41:03  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04834** | **1.8844** | **1.0155** | **1.0155** | **2.0699** | **.04949** | **2.1258** | **49.870** | **.10660** | **.48804** |
| Stddev | .00053 | .0050 | .0040 | .0007 | .0060 | .00011 | .0001 | .078 | .00022 | .00120 |
| %RSD | 1.0890 | .26798 | .39336 | .06514 | .28895 | .23024 | .00676 | .15699 | .20319 | .24599 |
| #1 | .04797 | 1.8808 | 1.0183 | 1.0150 | 2.0657 | .04941 | 2.1257 | 49.814 | .10645 | .48719 |
| #2 | .04871 | 1.8880 | 1.0127 | 1.0160 | 2.0742 | .04957 | 2.1259 | 49.925 | .10675 | .48889 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20102** | **.25026** | **1.0181** | **50.297** | **.95825** | **47.740** | **.47957** | **1.0252** | **51.963** | **.49373** |
| Stddev | .00039 | .00059 | .0110 | .125 | .00207 | .021 | .00019 | .0019 | .284 | .00002 |
| %RSD | .19368 | .23554 | 1.0756 | .24935 | .21562 | .04497 | .04032 | .18734 | .54681 | .00367 |
| #1 | .20074 | .25067 | 1.0103 | 50.209 | .95679 | 47.725 | .47944 | 1.0265 | 51.762 | .49374 |
| #2 | .20129 | .24984 | 1.0258 | 50.386 | .95971 | 47.756 | .47971 | 1.0238 | 52.164 | .49372 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.300** | **.49622** | **-.00560** | **.48240** | **1.9886** | **10.120** | **21.657** | **2.0220** | **1.0013** | **.94231** |
| Stddev | .011 | .00163 | .00252 | .00101 | .0045 | .023 | .049 | .0038 | .0021 | .00071 |
| %RSD | .11089 | .32913 | 44.921 | .21010 | .22796 | .22558 | .22558 | .18742 | .20837 | .07496 |
| #1 | 10.308 | .49737 | -.00738 | .48311 | 1.9918 | 10.104 | 21.623 | 2.0247 | .99984 | .94281 |
| #2 | 10.292 | .49506 | -.00382 | .48168 | 1.9854 | 10.136 | 21.692 | 2.0193 | 1.0028 | .94181 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98004** | **1.9378** | **2.0985** | **.50205** | **.47599** | **.51435** |
| Stddev | .00001 | .0052 | .0136 | .00117 | .00021 | .00041 |
| %RSD | .00090 | .26898 | .64619 | .23396 | .04329 | .07941 |
| #1 | .98005 | 1.9415 | 2.0889 | .50122 | .47584 | .51406 |
| #2 | .98003 | 1.9341 | 2.1081 | .50288 | .47613 | .51464 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8694.6** | **108630.** | **9089.3** |
| Stddev | 7.2 | 92. | 27.5 |
| %RSD | .08227 | .08495 | .30258 |
| #1 | 8699.7 | 108700. | 9069.8 |
| #2 | 8689.6 | 108560. | 9108.7 |

Sample Name: 280-45452-a-1-a  Acquired: 8/15/2013 23:43:10  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00071** | **3.5105** | **.00134** | W **53.196** | **.01160** | **-.00003** | **.00242** | **2.7288** | **-.00001** | **.00172** |
| Stddev | .00048 | .0099 | .00066 | .039 | .00043 | .00001 | .00225 | .0071 | .00010 | .00029 |
| %RSD | 67.952 | .28287 | 49.548 | .07376 | 3.6887 | 19.463 | 92.880 | .26031 | 1744.5 | 16.800 |
| #1 | -.00037 | 3.5035 | .00181 | 53.168 | .01130 | -.00004 | .00083 | 2.7238 | .00006 | .00152 |
| #2 | -.00105 | 3.5176 | .00087 | 53.223 | .01190 | -.00003 | .00402 | 2.7338 | -.00008 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | | | |
| Low Limit | | | | -.01000 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.35144** | **.79910** | **2.8882** | W **152.99** | **.05043** | **.20525** | **.00237** | **.23415** | W **3958.3** | **.04378** |
| Stddev | .00114 | .00022 | .0037 | .67 | .00126 | .00204 | .00006 | .00082 | .5 | .00012 |
| %RSD | .32456 | .02759 | .12749 | .43768 | 2.4987 | .99553 | 2.6407 | .34974 | .01263 | .26667 |
| #1 | .35225 | .79925 | 2.8908 | 152.52 | .05132 | .20669 | .00232 | .23473 | 3957.9 | .04386 |
| #2 | .35063 | .79894 | 2.8856 | 153.47 | .04953 | .20380 | .00241 | .23357 | 3958.6 | .04370 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.3791** | **-.00175** | F **1873.6** | **.02480** | **.00594** | **.34360** | **.73530** | **.00036** | **.01268** | **-.00526** |
| Stddev | .0135 | .00127 | 5.9 | .00199 | .00486 | .02387 | .05108 | .00007 | .00010 | .00065 |
| %RSD | .56646 | 72.490 | .31664 | 8.0179 | 81.704 | 6.9469 | 6.9469 | 18.998 | .79972 | 12.423 |
| #1 | 2.3886 | -.00085 | 1877.8 | .02621 | .00251 | .32672 | .69918 | .00031 | .01261 | -.00480 |
| #2 | 2.3695 | -.00264 | 1869.4 | .02340 | .00938 | .36048 | .77142 | .00041 | .01275 | -.00572 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00320** | **-.00085** | **.23323** | **.00240** | **.00446** | **.02437** |
| Stddev | .00027 | .00046 | .03568 | .00073 | .00064 | .00016 |
| %RSD | 8.4450 | 54.615 | 15.300 | 30.440 | 14.432 | .64727 |
| #1 | .00339 | -.00052 | .20800 | .00188 | .00401 | .02448 |
| #2 | .00301 | -.00117 | .25846 | .00291 | .00492 | .02426 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7666.8** | **91397.** | **8911.4** |
| Stddev | 37.2 | 156. | 89.2 |
| %RSD | .48538 | .17099 | 1.0009 |
| #1 | 7640.5 | 91287. | 8974.5 |
| #2 | 7693.1 | 91508. | 8848.3 |

Sample Name: 280-45452-a-1-aSD@5 Acquired: 8/15/2013 23:46:14 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187265 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00037** | **1.0957** | **.00077** | W **18.303** | **.00383** | **.00002** | **.00461** | **.91508** | **.00011** | **.00069** |
| Stddev | .00034 | .0062 | .00227 | .025 | .00022 | .00002 | .00090 | .00209 | .00015 | .00006 |
| %RSD | 91.865 | .56218 | 292.79 | .13407 | 5.6378 | 89.255 | 19.544 | .22822 | 136.17 | 9.2337 |
| #1 | -.00062 | 1.0914 | .00238 | 18.320 | .00368 | .00001 | .00525 | .91361 | .00021 | .00073 |
| #2 | -.00013 | 1.1001 | -.00083 | 18.285 | .00398 | .00004 | .00397 | .91656 | .00000 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | | | | |
| Low Limit | | | | -.01000 | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11684** | **.26580** | **.96050** | **50.492** | **.01886** | **.07217** | **.00087** | **.07771** | W **1300.9** | **.01480** |
| Stddev | .00011 | .00109 | .00631 | .007 | .00197 | .00093 | .00003 | .00017 | .1 | .00003 |
| %RSD | .09501 | .41167 | .65645 | .01334 | 10.454 | 1.2890 | 3.0817 | .21428 | .00922 | .17598 |
| #1 | .11692 | .26503 | .95604 | 50.488 | .02026 | .07151 | .00089 | .07783 | 1300.8 | .01482 |
| #2 | .11676 | .26658 | .96495 | 50.497 | .01747 | .07283 | .00085 | .07760 | 1301.0 | .01478 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 500.00 | |
| Low Limit | | | | | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75411** | **-.00098** | F **719.23** | **.00709** | **.00194** | **.08984** | **.19225** | **-.00061** | **.00414** | **-.00613** |
| Stddev | .00440 | .00011 | 1.11 | .00325 | .00040 | .00235 | .00504 | .00007 | .00010 | .00029 |
| %RSD | .58405 | 11.496 | .15403 | 45.910 | 20.664 | 2.6204 | 2.6204 | 10.859 | 2.3227 | 4.6771 |
| #1 | .75722 | -.00090 | 720.01 | .00939 | .00165 | .09150 | .19581 | -.00065 | .00420 | -.00593 |
| #2 | .75099 | -.00106 | 718.45 | .00479 | .00222 | .08817 | .18869 | -.00056 | .00407 | -.00634 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00127** | **-.00027** | **.07909** | **.00082** | **.00446** | **.01055** |
| Stddev | .00008 | .00113 | .00083 | .00044 | .00037 | .00007 |
| %RSD | 5.9816 | 412.04 | 1.0521 | 54.248 | 8.2042 | .66570 |
| #1 | .00132 | -.00107 | .07968 | .00113 | .00420 | .01050 |
| #2 | .00122 | .00052 | .07851 | .00050 | .00472 | .01060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8275.1** | **100370.** | **9221.5** |
| Stddev | 23.7 | 23. | 89.5 |
| %RSD | .28642 | .02283 | .97037 |
| #1 | 8291.8 | 100360. | 9158.2 |
| #2 | 8258.3 | 100390. | 9284.8 |

Sample Name: 280-45452-a-1-b ms  Acquired: 8/15/2013 23:49:10  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04030** | **5.0252** | **.81485** | W **54.435** | **1.5429** | **.03584** | F **1.5709** | **38.808** | **.08315** | **.34823** |
| Stddev | .00026 | .0097 | .00013 | .009 | .0033 | .00000 | .0061 | .087 | .00040 | .00132 |
| %RSD | .64226 | .19264 | .01594 | .01683 | .21197 | .00108 | .38699 | .22408 | .47907 | .37907 |
| #1 | .04048 | 5.0320 | .81494 | 54.441 | 1.5452 | .03584 | 1.5666 | 38.870 | .08286 | .34729 |
| #2 | .04011 | 5.0183 | .81476 | 54.428 | 1.5406 | .03584 | 1.5752 | 38.747 | .08343 | .34916 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | .10000 | | | |
| Low Limit | | | | -.01000 | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49081** | **1.0600** | **3.6472** | W **192.79** | **.78177** | **32.619** | **.35358** | **.96832** | W **4022.1** | **.39631** |
| Stddev | .00015 | .0013 | .0293 | .34 | .00024 | .062 | .00069 | .00096 | 7.8 | .00108 |
| %RSD | .03050 | .12024 | .80391 | .17392 | .03096 | .18961 | .19607 | .09918 | .19383 | .27319 |
| #1 | .49091 | 1.0591 | 3.6679 | 192.55 | .78160 | 32.663 | .35407 | .96764 | 4027.6 | .39555 |
| #2 | .49070 | 1.0609 | 3.6265 | 193.03 | .78194 | 32.575 | .35309 | .96900 | 4016.5 | .39708 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.595** | **.33757** | F **1885.3** | **.38986** | **1.6545** | **6.2775** | **13.434** | **1.4010** | **.75298** | **.70195** |
| Stddev | .007 | .00166 | 15.4 | .00151 | .0040 | .0640 | .137 | .0095 | .00162 | .00095 |
| %RSD | .06689 | .49178 | .81704 | .38746 | .23854 | 1.0200 | 1.0200 | .68147 | .21562 | .13549 |
| #1 | 10.600 | .33640 | 1874.4 | .38879 | 1.6517 | 6.2322 | 13.337 | 1.3942 | .75413 | .70262 |
| #2 | 10.590 | .33875 | 1896.2 | .39093 | 1.6572 | 6.3228 | 13.531 | 1.4077 | .75184 | .70128 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72990** | **1.2206** | **1.7306** | **.38462** | **.37702** | **.40215** |
| Stddev | .00129 | .0081 | .0042 | .00095 | .00070 | .00256 |
| %RSD | .17656 | .66254 | .24087 | .24776 | .18546 | .63624 |
| #1 | .73081 | 1.2149 | 1.7335 | .38530 | .37652 | .40034 |
| #2 | .72899 | 1.2264 | 1.7276 | .38395 | .37751 | .40395 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7713.7** | **92861.** | **9123.5** |
| Stddev | 2.2 | 444. | 77.0 |
| %RSD | .02855 | .47846 | .84382 |
| #1 | 7715.2 | 92546. | 9069.1 |
| #2 | 7712.1 | 93175. | 9178.0 |

Sample Name: 280-45452-a-1-c msd  Acquired: 8/15/2013 23:52:04  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03950** | **4.9878** | **.81918** | W **53.616** | **1.5518** | **.03603** | F **1.5842** | **39.069** | **.08367** | **.35100** |
| Stddev | .00054 | .0608 | .00198 | .053 | .0084 | .00028 | .0083 | .205 | .00015 | .00054 |
| %RSD | 1.3673 | 1.2191 | .24151 | .09927 | .54248 | .78242 | .52065 | .52551 | .17637 | .15371 |
| #1 | .03988 | 4.9448 | .82058 | 53.579 | 1.5459 | .03584 | 1.5784 | 38.923 | .08356 | .35138 |
| #2 | .03912 | 5.0308 | .81778 | 53.654 | 1.5578 | .03623 | 1.5900 | 39.214 | .08377 | .35062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 10.000 | | | .10000 | | | |
| Low Limit | | | | -.01000 | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.48646** | **1.0436** | **3.6128** | W **191.07** | **.78036** | **32.772** | **.35592** | **.97816** | W **3950.2** | **.39745** |
| Stddev | .00171 | .0026 | .0282 | 1.54 | .00605 | .042 | .00032 | .00143 | 23.8 | .00021 |
| %RSD | .35189 | .24520 | .77905 | .80658 | .77533 | .12707 | .09019 | .14591 | .60134 | .05175 |
| #1 | .48767 | 1.0418 | 3.5929 | 189.98 | .77608 | 32.742 | .35569 | .97917 | 3933.4 | .39759 |
| #2 | .48525 | 1.0454 | 3.6327 | 192.16 | .78464 | 32.801 | .35615 | .97715 | 3967.0 | .39730 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | 100.00 | | | | | 500.00 | |
| Low Limit | | | | -.50000 | | | | | 11.000 | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.637** | **.33923** | F **1871.0** | **.39583** | **1.6666** | **6.2204** | **13.312** | **1.4148** | **.75982** | **.71306** |
| Stddev | .005 | .00185 | 5.6 | .00093 | .0080 | .1472 | .315 | .0031 | .00503 | .00230 |
| %RSD | .04341 | .54518 | .29920 | .23554 | .47992 | 2.3661 | 2.3661 | .21719 | .66224 | .32273 |
| #1 | 10.641 | .34054 | 1874.9 | .39517 | 1.6610 | 6.1163 | 13.089 | 1.4170 | .75626 | .71144 |
| #2 | 10.634 | .33792 | 1867.0 | .39648 | 1.6723 | 6.3245 | 13.534 | 1.4127 | .76337 | .71469 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.73972** | **1.2342** | **1.7364** | **.38587** | **.37831** | **.40727** |
| Stddev | .00052 | .0013 | .0037 | .00085 | .00123 | .00720 |
| %RSD | .06971 | .10317 | .21010 | .22030 | .32525 | 1.7679 |
| #1 | .73936 | 1.2351 | 1.7389 | .38647 | .37744 | .40218 |
| #2 | .74009 | 1.2333 | 1.7338 | .38527 | .37918 | .41236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **7746.4** | **93323.** | **9127.7** |
| Stddev | 61.2 | 282. | 33.6 |
| %RSD | .78994 | .30231 | .36829 |
| #1 | 7703.2 | 93124. | 9103.9 |
| #2 | 7789.7 | 93523. | 9151.5 |

Sample Name: 280-45503-a-1-a  Acquired: 8/15/2013 23:54:57  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00160** | **.07212** | **.00032** | **.24822** | **.71777** | **.00003** | **.00380** | **26.719** | **.00054** | **.00091** |
| Stddev | .00014 | .00044 | .00023 | .00882 | .00310 | .00000 | .00259 | .115 | .00019 | .00017 |
| %RSD | 8.9067 | .61616 | 72.877 | 3.5531 | .43243 | 1.8143 | 68.194 | .43007 | 35.853 | 18.542 |
| #1 | .00170 | .07181 | .00048 | .25445 | .71557 | .00003 | .00563 | 26.638 | .00040 | .00103 |
| #2 | .00150 | .07244 | .00015 | .24198 | .71996 | .00003 | .00197 | 26.801 | .00068 | .00079 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00195** | **.46651** | **1.0252** | **20.400** | **.01274** | **6.6262** | **.19053** | **.00250** | **237.97** | **.05971** |
| Stddev | .00003 | .00112 | .0097 | .016 | .00110 | .0256 | .00075 | .00008 | .86 | .00008 |
| %RSD | 1.4844 | .23993 | .95019 | .07921 | 8.6003 | .38588 | .39574 | 3.1904 | .36128 | .13574 |
| #1 | .00197 | .46572 | 1.0184 | 20.388 | .01197 | 6.6082 | .18999 | .00244 | 237.36 | .05976 |
| #2 | .00193 | .46730 | 1.0321 | 20.411 | .01352 | 6.6443 | .19106 | .00256 | 238.58 | .05965 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.77909** | **.00944** | **136.06** | **-.00139** | **.00263** | **1.9223** | **4.1137** | **.14053** | **.24755** | **.00154** |
| Stddev | .00207 | .00021 | .10 | .00193 | .00173 | .0033 | .0071 | .00018 | .00074 | .00117 |
| %RSD | .26546 | 2.2699 | .07344 | 138.63 | 65.871 | .17176 | .17176 | .12517 | .29930 | 75.968 |
| #1 | .78056 | .00960 | 135.99 | -.00003 | .00141 | 1.9246 | 4.1187 | .14040 | .24703 | .00071 |
| #2 | .77763 | .00929 | 136.13 | -.00276 | .00386 | 1.9199 | 4.1087 | .14065 | .24807 | .00236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00116** | **.00104** | W **-.07850** | **-.00005** | **.01905** | **.00469** |
| Stddev | .00005 | .00081 | .02932 | .00010 | .00039 | .00122 |
| %RSD | 3.9015 | 78.069 | 37.350 | 198.48 | 2.0247 | 26.025 |
| #1 | .00112 | .00047 | -.05777 | -.00012 | .01878 | .00555 |
| #2 | .00119 | .00162 | -.09924 | .00002 | .01932 | .00382 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8943.0** | **111620.** | **9744.9** |
| Stddev | 44.7 | 353. | 41.0 |
| %RSD | .49943 | .31626 | .42084 |
| #1 | 8974.5 | 111870. | 9715.9 |
| #2 | 8911.4 | 111370. | 9773.9 |

Sample Name: 280-45397-d-1-a  Acquired: 8/15/2013 23:57:19  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00034** | **.04585** | **.00163** | **.27020** | **.05149** | **.00002** | **.00333** | **37.624** | **.00038** | **.00046** |
| Stddev | .00004 | .00017 | .00081 | .00378 | .00044 | .00004 | .00001 | .129 | .00002 | .00006 |
| %RSD | 12.108 | .37150 | 50.017 | 1.3995 | .84732 | 218.98 | .32891 | .34342 | 3.9878 | 13.555 |
| #1 | -.00037 | .04573 | .00221 | .27288 | .05180 | .00005 | .00333 | 37.716 | .00037 | .00041 |
| #2 | -.00031 | .04597 | .00105 | .26753 | .05118 | -.00001 | .00332 | 37.533 | .00039 | .00050 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00065** | **.00421** | **.34037** | **41.208** | **.01483** | **20.804** | **.11069** | **.00203** | **76.728** | **.00339** |
| Stddev | .00011 | .00015 | .00112 | .034 | .00614 | .017 | .00022 | .00007 | .123 | .00018 |
| %RSD | 16.654 | 3.4653 | .32808 | .08202 | 41.397 | .08163 | .19582 | 3.6897 | .16057 | 5.4477 |
| #1 | .00073 | .00410 | .34116 | 41.232 | .01049 | 20.792 | .11054 | .00197 | 76.815 | .00352 |
| #2 | .00057 | .00431 | .33958 | 41.184 | .01918 | 20.816 | .11084 | .00208 | 76.641 | .00326 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.2600** | **-.00112** | **18.331** | **-.00211** | **.00029** | **3.5760** | **7.6527** | **-.00112** | **.24650** | **.00015** |
| Stddev | .0079 | .00079 | .018 | .00098 | .00097 | .0185 | .0395 | .00041 | .00071 | .00078 |
| %RSD | .24339 | 70.814 | .09545 | 46.434 | 334.19 | .51654 | .51654 | 36.411 | .28881 | 511.38 |
| #1 | 3.2544 | -.00056 | 18.319 | -.00142 | -.00040 | 3.5891 | 7.6806 | -.00140 | .24701 | .00070 |
| #2 | 3.2656 | -.00168 | 18.344 | -.00280 | .00097 | 3.5630 | 7.6247 | -.00083 | .24600 | -.00040 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00101** | **.00059** | W **-.05430** | **.00054** | **.01827** | **.00383** |
| Stddev | .00049 | .00012 | .01065 | .00012 | .00038 | .00049 |
| %RSD | 48.748 | 19.846 | 19.612 | 22.676 | 2.0580 | 12.707 |
| #1 | .00136 | .00051 | -.06183 | .00063 | .01800 | .00349 |
| #2 | .00066 | .00067 | -.04677 | .00046 | .01854 | .00418 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8893.1** | **111250.** | **9499.4** |
| Stddev | .7 | 175. | 14.5 |
| %RSD | .00743 | .15753 | .15231 |
| #1 | 8893.5 | 111380. | 9509.6 |
| #2 | 8892.6 | 111130. | 9489.2 |

Sample Name: CCVH-2174668 Acquired: 8/15/2013 23:59:36 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **50.195** | **.00176** | **.08128** | **.00099** | **-.00001** | **1.0474** | **-.01115** | **.00021** | **.00016** | **-.00007** | **.00346** |
| Stddev | .00034 | .120 | .00010 | .00335 | .00006 | .00002 | .0098 | .00146 | .00019 | .00021 | .00002 | .00057 |
| %RSD | 123.22 | .23907 | 5.6647 | 4.1264 | 6.2853 | 239.41 | .93221 | 13.133 | 91.721 | 130.71 | 34.117 | 16.408 |
| #1 | .00004 | 50.110 | .00183 | .08365 | .00095 | -.00003 | 1.0543 | -.01011 | .00034 | .00001 | -.00009 | .00386 |
| #2 | .00052 | 50.280 | .00169 | .07891 | .00104 | .00001 | 1.0405 | -.01218 | .00007 | .00031 | -.00006 | .00306 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.742** | **.52005** | **.00273** | **-.00133** | **.00008** | **.00007** | **256.65** | **.00075** | **.00561** | **.00051** | W **5.2853** | **-.00146** |
| Stddev | .012 | .06249 | .00302 | .00168 | .00003 | .00015 | .47 | .00031 | .00127 | .00061 | .0045 | .00046 |
| %RSD | .02392 | 12.016 | 110.66 | 126.30 | 35.725 | 198.57 | .18284 | 41.664 | 22.736 | 120.03 | .08551 | 31.717 |
| #1 | 49.750 | .56424 | .00486 | -.00014 | .00010 | .00018 | 256.31 | .00053 | .00651 | .00008 | 5.2885 | -.00113 |
| #2 | 49.733 | .47586 | .00059 | -.00252 | .00006 | -.00003 | 256.98 | .00097 | .00470 | .00094 | 5.2821 | -.00179 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Warn | None |
| Value | | | | | | | | | | | 5.0000 | |
| Range | | | | | | | | | | | 5.0000% | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **-.00082** | **-.00176** | **-.00004** | **.00044** | **4.7906** | **-.00009** | **.00097** | **10.287** | **.00028** | **.00087** | **.03575** |
| Stddev | .00077 | .00377 | .00807 | .00018 | .00008 | .0138 | .00010 | .00107 | .063 | .00008 | .00008 | .00105 |
| %RSD | 131.78 | 459.72 | 459.72 | 469.85 | 18.833 | .28806 | 109.62 | 110.32 | .61104 | 27.470 | 9.5182 | 2.9411 |
| #1 | .00113 | -.00349 | -.00747 | .00009 | .00050 | 4.8004 | -.00016 | .00021 | 10.331 | .00023 | .00081 | .03500 |
| #2 | .00004 | .00185 | .00395 | -.00016 | .00038 | 4.7808 | -.00002 | .00173 | 10.242 | .00034 | .00093 | .03649 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8876.5** | **109320.** | **9289.7** |
| Stddev | 17.8 | 297. | 38.4 |
| %RSD | .20006 | .27201 | .41363 |
| #1 | 8863.9 | 109110. | 9262.5 |
| #2 | 8889.0 | 109530. | 9316.9 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 0:01:57 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49095** | **.50442** | **1.0018** | F **.57443** | **.50379** | **.49487** | **.00542** | **4.9838** | **.50882** | **.50425** | **.49705** | **.50031** | **2.5189** |
| Stddev | .00003 | .00038 | .0004 | .00139 | .00020 | .00105 | .00143 | .0045 | .00013 | .00041 | .00032 | .00052 | .0073 |
| %RSD | .00648 | .07536 | .04146 | .24190 | .04030 | .21156 | 26.372 | .09102 | .02652 | .08224 | .06359 | .10434 | .28853 |
| #1 | .49092 | .50415 | 1.0015 | .57541 | .50365 | .49413 | .00441 | 4.9806 | .50891 | .50455 | .49682 | .50068 | 2.5137 |
| #2 | .49097 | .50469 | 1.0021 | .57345 | .50394 | .49561 | .00643 | 4.9870 | .50872 | .50396 | .49727 | .49994 | 2.5240 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .50000 | | | | | | | | | |
| Range | | | | 10.490% | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.733** | **.95302** | **18.982** | **.48729** | **.50172** | F **5.6169** | **.50403** | **1.0108** | **1.0138** | **.16575** | **1.0230** | **1.0131** | **4.9017** |
| Stddev | .048 | .00259 | .007 | .00100 | .00075 | .0202 | .00089 | .0010 | .0018 | .00278 | .0031 | .0003 | .0323 |
| %RSD | .09605 | .27129 | .03465 | .20597 | .14890 | .35971 | .17743 | .09865 | .17397 | 1.6773 | .29914 | .03268 | .65836 |
| #1 | 49.699 | .95119 | 18.987 | .48658 | .50225 | 5.6026 | .50467 | 1.0116 | 1.0150 | .16378 | 1.0208 | 1.0128 | 4.8789 |
| #2 | 49.767 | .95485 | 18.978 | .48800 | .50119 | 5.6311 | .50340 | 1.0101 | 1.0125 | .16771 | 1.0251 | 1.0133 | 4.9245 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 5.0000 | | | | | | | |
| Range | | | | | | 10.490% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.490** | **1.0027** | **.49729** | **-.00318** | **.49215** | **1.0262** | **-.02696** | **.49832** | **.48137** | **.50171** |
| Stddev | .069 | .0009 | .00084 | .00129 | .00054 | .0031 | .04884 | .00035 | .00025 | .00331 |
| %RSD | .65836 | .08782 | .16894 | 40.583 | .11043 | .30562 | 181.15 | .07113 | .05214 | .65985 |
| #1 | 10.441 | 1.0034 | .49669 | -.00410 | .49177 | 1.0240 | -.06149 | .49807 | .48155 | .49937 |
| #2 | 10.538 | 1.0021 | .49788 | -.00227 | .49254 | 1.0285 | .00757 | .49857 | .48119 | .50405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9099.5** | **112590.** | **9394.3** |
| Stddev | 4.4 | 299. | 48.1 |
| %RSD | .04890 | .26581 | .51227 |
| #1 | 9096.4 | 112800. | 9360.3 |
| #2 | 9102.6 | 112370. | 9428.3 |

Sample Name: CCB Acquired: 8/16/2013 0:04:02 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00043** | **.00167** | F **.05198** | **-.00019** | **.00002** | **.00479** | **-.00425** | **.00014** | **-.00006** | **-.00012** | **-.00058** |
| Stddev | .00003 | .00018 | .00040 | .00161 | .00003 | .00000 | .00048 | .00248 | .00008 | .00027 | .00011 | .00020 |
| %RSD | 13.507 | 41.337 | 24.099 | 3.0964 | 17.445 | 18.317 | 10.033 | 58.206 | 60.556 | 448.86 | 98.036 | 35.204 |
| #1 | .00025 | .00056 | .00195 | .05312 | -.00017 | .00001 | .00513 | -.00600 | .00020 | .00013 | -.00004 | -.00073 |
| #2 | .00020 | .00031 | .00138 | .05084 | -.00022 | .00002 | .00445 | -.00250 | .00008 | -.00026 | -.00020 | -.00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00700 | | | | | | | | |
| Low Limit | | | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.22598** | **.00037** | **.00062** | **.00003** | **.00075** | F **.53726** | **.00066** | **.00126** | **-.00002** | **.15180** | W **.00358** |
| Stddev | .00007 | .07570 | .00062 | .00221 | .00008 | .00024 | .01178 | .00009 | .00001 | .00000 | .00370 | .00099 |
| %RSD | 54.448 | 33.499 | 169.26 | 353.68 | 244.02 | 31.479 | 2.1927 | 14.309 | .79666 | 16.719 | 2.4356 | 27.685 |
| #1 | -.00018 | .27951 | -.00007 | -.00094 | -.00002 | .00058 | .54559 | .00059 | .00126 | -.00002 | .15442 | .00288 |
| #2 | -.00008 | .17245 | .00081 | .00218 | .00009 | .00091 | .52893 | .00072 | .00125 | -.00002 | .14919 | .00429 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .18320 | | | | | .00314 |
| Low Limit | | | | | | | -.18320 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00013** | **.01199** | **.02565** | **-.00060** | **.00003** | **-.00121** | **.00010** | **.00005** | **-.00665** | **-.00044** | **.00223** | W **.00410** |
| Stddev | .00064 | .00077 | .00166 | .00008 | .00000 | .00012 | .00039 | .00066 | .00086 | .00036 | .00022 | .00073 |
| %RSD | 482.71 | 6.4544 | 6.4544 | 12.741 | .54807 | 9.6068 | 386.16 | 1223.8 | 12.914 | 80.099 | 9.7076 | 17.686 |
| #1 | -.00032 | .01144 | .02448 | -.00065 | .00003 | -.00130 | -.00017 | -.00041 | -.00604 | -.00070 | .00238 | .00462 |
| #2 | .00058 | .01253 | .02682 | -.00055 | .00003 | -.00113 | .00037 | .00052 | -.00726 | -.00019 | .00208 | .00359 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9165.2** | **114390.** | **9352.7** |
| Stddev | 63.3 | 491. | .6 |
| %RSD | .69051 | .42953 | .00642 |
| #1 | 9120.4 | 114740. | 9352.3 |
| #2 | 9209.9 | 114040. | 9353.1 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 0:06:17 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01065** | **.10641** | **.01610** | F **.14511** | **.01000** | **.00100** | **.12108** | **.20382** | **.00550** | **.01083** | **.01020** | **.01522** | **.10103** |
| Stddev | .00042 | .00018 | .00161 | .00168 | .00080 | .00002 | .00189 | .00087 | .00038 | .00001 | .00011 | .00006 | .00025 |
| %RSD | 3.9290 | .16941 | 10.003 | 1.1578 | 7.9639 | 1.9593 | 1.5618 | .42633 | 6.8650 | .10682 | 1.0758 | .39158 | .25173 |
| #1 | .01036 | .10654 | .01496 | .14630 | .00944 | .00101 | .12242 | .20320 | .00523 | .01084 | .01012 | .01526 | .10121 |
| #2 | .01095 | .10629 | .01723 | .14392 | .01056 | .00098 | .11975 | .20443 | .00576 | .01082 | .01028 | .01517 | .10085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | .10000 | | | | | | | | | |
| Range | | | | 30.000% | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2879** | **.00970** | **.20522** | **.01019** | **.01931** | F **1.5174** | **.04257** | **3.0043** | **.00890** | **.13381** | **.00870** | **.01519** | **.48848** |
| Stddev | .0132 | .00221 | .00094 | .00009 | .00016 | .0123 | .00012 | .0124 | .00013 | .00405 | .00030 | .00107 | .00336 |
| %RSD | .40123 | 22.769 | .45635 | .84008 | .80492 | .81073 | .28104 | .41094 | 1.4207 | 3.0297 | 3.4181 | 7.0597 | .68762 |
| #1 | 3.2972 | .00814 | .20456 | .01025 | .01920 | 1.5087 | .04249 | 3.0131 | .00899 | .13667 | .00849 | .01443 | .48610 |
| #2 | 3.2786 | .01126 | .20589 | .01013 | .01942 | 1.5261 | .04266 | 2.9956 | .00881 | .13094 | .00891 | .01595 | .49085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0453** | **.10224** | **.01020** | **.01424** | **.00994** | **.01830** | **.05166** | **.00949** | **.02078** | **.01911** |
| Stddev | .0072 | .00069 | .00013 | .00017 | .00000 | .00090 | .02646 | .00012 | .00030 | .00117 |
| %RSD | .68762 | .67366 | 1.2525 | 1.2235 | .00174 | 4.9189 | 51.222 | 1.2778 | 1.4628 | 6.1393 |
| #1 | 1.0403 | .10272 | .01011 | .01411 | .00994 | .01894 | .07037 | .00958 | .02100 | .01828 |
| #2 | 1.0504 | .10175 | .01029 | .01436 | .00994 | .01767 | .03295 | .00941 | .02057 | .01994 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9361.3** | **116770.** | **9611.6** |
| Stddev | 4.1 | 93. | 80.8 |
| %RSD | .04422 | .07942 | .84040 |
| #1 | 9364.3 | 116700. | 9668.7 |
| #2 | 9358.4 | 116840. | 9554.4 |

Sample Name: 280-45420-a-1-a  Acquired: 8/16/2013 0:08:33  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00040** | **13.382** | **.00278** | **.05580** | **.45857** | **.00122** | **-.00178** | **24.036** | **.00058** | **.00732** |
| Stddev | .00005 | .139 | .00032 | .00049 | .00076 | .00004 | .00145 | .064 | .00004 | .00032 |
| %RSD | 12.699 | 1.0418 | 11.669 | .88104 | .16551 | 3.5703 | 81.567 | .26603 | 7.0951 | 4.3807 |
| #1 | -.00037 | 13.284 | .00300 | .05614 | .45803 | .00119 | -.00075 | 23.991 | .00055 | .00754 |
| #2 | -.00044 | 13.481 | .00255 | .05545 | .45911 | .00125 | -.00281 | 24.081 | .00061 | .00709 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00852** | **.01697** | **8.0849** | **5.6654** | **.01064** | **6.1861** | **.30153** | **.00040** | **12.788** | **.00824** |
| Stddev | .00001 | .00014 | .0103 | .0140 | .00069 | .0120 | .00030 | .00029 | .013 | .00007 |
| %RSD | .17168 | .82963 | .12683 | .24652 | 6.5338 | .19343 | .09907 | 72.407 | .10032 | .89360 |
| #1 | .00854 | .01707 | 8.0776 | 5.6753 | .01113 | 6.1946 | .30174 | .00020 | 12.779 | .00818 |
| #2 | .00851 | .01687 | 8.0921 | 5.6555 | .01014 | 6.1776 | .30132 | .00061 | 12.797 | .00829 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14217** | **.00989** | **2.5152** | **-.00419** | **-.00071** | **25.180** | **53.886** | **-.00071** | **.44738** | **.00213** |
| Stddev | .00062 | .00105 | .0028 | .00101 | .00010 | .049 | .105 | .00044 | .00098 | .00190 |
| %RSD | .43515 | 10.615 | .11069 | 24.010 | 14.415 | .19449 | .19449 | 62.891 | .21843 | 89.252 |
| #1 | .14260 | .01063 | 2.5171 | -.00348 | -.00078 | 25.146 | 53.812 | -.00039 | .44669 | .00079 |
| #2 | .14173 | .00915 | 2.5132 | -.00490 | -.00063 | 25.215 | 53.960 | -.00102 | .44807 | .00347 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20169** | **.00023** | **-.02273** | **.02309** | **.04238** | **.01056** |
| Stddev | .00037 | .00111 | .00551 | .00063 | .00001 | .00246 |
| %RSD | .18362 | 477.05 | 24.254 | 2.7348 | .02854 | 23.255 |
| #1 | .20143 | .00102 | -.02663 | .02354 | .04239 | .00882 |
| #2 | .20195 | -.00055 | -.01884 | .02265 | .04237 | .01229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9274.1** | **114790.** | **9624.9** |
| Stddev | 2.6 | 588. | 46.0 |
| %RSD | .02848 | .51232 | .47767 |
| #1 | 9276.0 | 114380. | 9657.4 |
| #2 | 9272.2 | 115210. | 9592.4 |

Sample Name: 280-45420-a-2-a  Acquired: 8/16/2013 0:10:48  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **6.1391** | **.00216** | **.04822** | **1.0693** | **.00275** | **-.00120** | **37.505** | **.00094** | **.01966** |
| Stddev | .00029 | .0072 | .00098 | .00141 | .0058 | .00002 | .00114 | .221 | .00001 | .00001 |
| %RSD | 1203.7 | .11748 | 45.528 | 2.9266 | .54230 | .78241 | 95.361 | .59006 | 1.5055 | .03835 |
| #1 | .00018 | 6.1340 | .00286 | .04922 | 1.0652 | .00277 | -.00039 | 37.349 | .00095 | .01965 |
| #2 | -.00023 | 6.1442 | .00147 | .04722 | 1.0734 | .00274 | -.00200 | 37.662 | .00093 | .01966 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00244** | **.02357** | **2.3340** | **5.5567** | **.00766** | **7.2230** | **.87221** | **-.00009** | W **10.522** | **11.047** |
| Stddev | .00009 | .00049 | .0257 | .0099 | .00089 | .0137 | .00204 | .00025 | .072 | .142 |
| %RSD | 3.7129 | 2.0620 | 1.1019 | .17876 | 11.655 | .18958 | .23352 | 270.68 | .67988 | 1.2855 |
| #1 | .00251 | .02323 | 2.3158 | 5.5497 | .00703 | 7.2326 | .87365 | .00009 | 10.471 | 10.946 |
| #2 | .00238 | .02392 | 2.3522 | 5.5637 | .00830 | 7.2133 | .87077 | -.00027 | 10.572 | 11.147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | | | | | 10.500 | |
| Low Limit | | | | | | | | | -.50000 | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01438** | **.25894** | **.01579** | **2.6379** | **-.00378** | **-.00153** | **14.010** | **29.981** | **-.00097** | **.61873** |
| Stddev | .00018 | .00136 | .00020 | .0054 | .00071 | .00100 | .140 | .300 | .00017 | .00388 |
| %RSD | 1.2214 | .52642 | 1.2653 | .20397 | 18.739 | 65.565 | .99937 | .99937 | 17.112 | .62732 |
| #1 | .01450 | .25990 | .01593 | 2.6417 | -.00428 | -.00224 | 13.911 | 29.769 | -.00085 | .61599 |
| #2 | .01425 | .25797 | .01565 | 2.6341 | -.00328 | -.00082 | 14.109 | 30.193 | -.00108 | .62148 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00226** | **.04022** | **-.00020** | W **-.05949** | **.02249** | **.05525** | **.00746** |
| Stddev | .00032 | .00251 | .00153 | .04688 | .00022 | .00075 | .00030 |
| %RSD | 14.091 | 6.2428 | 763.85 | 78.803 | .98088 | 1.3600 | 4.0773 |
| #1 | .00203 | .03845 | -.00128 | -.09264 | .02265 | .05472 | .00725 |
| #2 | .00248 | .04200 | .00088 | -.02634 | .02233 | .05578 | .00768 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 45.000 | | | |
| Low Limit | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9294.9** | **114310.** | **9604.6** |
| Stddev | 6.5 | 17. | 62.5 |
| %RSD | .07002 | .01505 | .65070 |
| #1 | 9290.3 | 114320. | 9560.4 |
| #2 | 9299.5 | 114300. | 9648.8 |

Sample Name: 280-45420-a-3-a  Acquired: 8/16/2013 0:13:02  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **7.0877** | **.00051** | **.04325** | **.14284** | **.00037** | **.00326** | **29.861** | **.00050** | **.00183** |
| Stddev | .00015 | .0107 | .00023 | .00095 | .00047 | .00008 | .00012 | .014 | .00009 | .00003 |
| %RSD | 39.769 | .15136 | 43.971 | 2.1945 | .32970 | 20.501 | 3.6152 | .04839 | 18.049 | 1.6078 |
| #1 | .00050 | 7.0953 | .00068 | .04392 | .14317 | .00032 | .00334 | 29.850 | .00056 | .00181 |
| #2 | .00028 | 7.0801 | .00035 | .04258 | .14250 | .00042 | .00318 | 29.871 | .00044 | .00185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00581** | **.00639** | **5.4528** | **3.3103** | **.01066** | **7.2124** | **.11015** | **.00082** | **13.574** | **.00434** |
| Stddev | .00014 | .00006 | .0213 | .0645 | .00201 | .0256 | .00015 | .00010 | .278 | .00013 |
| %RSD | 2.4799 | .99107 | .39061 | 1.9481 | 18.863 | .35452 | .13726 | 12.838 | 2.0464 | 3.0926 |
| #1 | .00592 | .00644 | 5.4377 | 3.3559 | .00924 | 7.1943 | .11005 | .00074 | 13.770 | .00444 |
| #2 | .00571 | .00635 | 5.4678 | 3.2647 | .01208 | 7.2305 | .11026 | .00089 | 13.377 | .00425 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11667** | **.00218** | **11.392** | **-.00442** | **.00083** | **16.996** | **36.372** | **-.00101** | **.31733** | **.00070** |
| Stddev | .00143 | .00059 | .002 | .00009 | .00087 | .112 | .239 | .00006 | .00011 | .00035 |
| %RSD | 1.2219 | 27.211 | .02143 | 1.9544 | 104.97 | .65736 | .65736 | 5.5793 | .03545 | 50.052 |
| #1 | .11768 | .00260 | 11.394 | -.00436 | .00144 | 17.075 | 36.541 | -.00105 | .31725 | .00045 |
| #2 | .11566 | .00176 | 11.390 | -.00448 | .00021 | 16.917 | 36.203 | -.00097 | .31741 | .00094 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12294** | **.00089** | **.01211** | **.01308** | **.02199** | **.00736** |
| Stddev | .00119 | .00090 | .02691 | .00034 | .00057 | .00095 |
| %RSD | .96389 | 101.32 | 222.34 | 2.6270 | 2.5767 | 12.836 |
| #1 | .12210 | .00153 | .03114 | .01332 | .02159 | .00670 |
| #2 | .12378 | .00025 | -.00693 | .01283 | .02239 | .00803 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9254.3** | **113990.** | **9566.6** |
| Stddev | 9.0 | 525. | 30.1 |
| %RSD | .09776 | .46077 | .31442 |
| #1 | 9260.7 | 114360. | 9587.9 |
| #2 | 9247.9 | 113610. | 9545.4 |

Sample Name: 280-45420-a-4-a  Acquired: 8/16/2013 0:15:16  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **25.851** | **.00835** | **.05173** | **.43949** | **.00152** | **-.00348** | **44.451** | **.00092** | **.01198** |
| Stddev | .00015 | .071 | .00050 | .00024 | .00101 | .00004 | .00015 | .016 | .00004 | .00030 |
| %RSD | 40.673 | .27344 | 6.0436 | .47317 | .22880 | 2.8329 | 4.3250 | .03522 | 4.8762 | 2.5114 |
| #1 | .00049 | 25.901 | .00800 | .05190 | .44020 | .00155 | -.00359 | 44.462 | .00095 | .01219 |
| #2 | .00027 | 25.801 | .00871 | .05156 | .43878 | .00149 | -.00338 | 44.440 | .00089 | .01176 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02362** | **.03727** | **29.992** | **7.9684** | **.02414** | **11.377** | **.60031** | **.00166** | **9.0975** | **.02804** |
| Stddev | .00003 | .00026 | .002 | .0366 | .00162 | .004 | .00091 | .00020 | .0044 | .00005 |
| %RSD | .13717 | .68954 | .00672 | .45924 | 6.7166 | .03612 | .15199 | 11.801 | .04861 | .16560 |
| #1 | .02364 | .03709 | 29.993 | 7.9943 | .02299 | 11.374 | .59966 | .00152 | 9.1007 | .02807 |
| #2 | .02359 | .03745 | 29.990 | 7.9425 | .02528 | 11.380 | .60095 | .00179 | 9.0944 | .02800 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.83415** | **.01982** | **12.885** | **-.00371** | **.00410** | **41.671** | **89.177** | **.00021** | **.33755** | **.00785** |
| Stddev | .00323 | .00003 | .010 | .00108 | .00299 | .079 | .170 | .00026 | .00003 | .00169 |
| %RSD | .38664 | .15370 | .07438 | 29.116 | 72.827 | .19018 | .19018 | 125.44 | .01008 | 21.582 |
| #1 | .83643 | .01979 | 12.891 | -.00295 | .00622 | 41.727 | 89.297 | .00039 | .33757 | .00904 |
| #2 | .83187 | .01984 | 12.878 | -.00448 | .00199 | 41.615 | 89.057 | .00002 | .33752 | .00665 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.22522** | **.00137** | W **-.07902** | **.05555** | **.12208** | **.01306** |
| Stddev | .00248 | .00078 | .03705 | .00038 | .00023 | .00090 |
| %RSD | 1.1028 | 57.321 | 46.890 | .68472 | .18927 | 6.8708 |
| #1 | .22346 | .00192 | -.10521 | .05582 | .12225 | .01370 |
| #2 | .22697 | .00081 | -.05282 | .05528 | .12192 | .01243 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9307.0** | **114760.** | **9735.0** |
| Stddev | 25.4 | 554. | 36.9 |
| %RSD | .27277 | .48258 | .37954 |
| #1 | 9289.0 | 115150. | 9708.9 |
| #2 | 9324.9 | 114370. | 9761.1 |

Sample Name: 280-45486-a-1-a  Acquired: 8/16/2013 0:17:30  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **.00496** | **-.00007** | **.02014** | **.00032** | **.00001** | **.00518** | **.02983** | **.00013** | **-.00006** |
| Stddev | .00059 | .00019 | .00061 | .00074 | .00001 | .00002 | .00202 | .00076 | .00013 | .00013 |
| %RSD | 480.13 | 3.8463 | 918.31 | 3.6868 | 2.7069 | 110.92 | 38.878 | 2.5567 | 96.288 | 201.82 |
| #1 | .00029 | .00483 | .00037 | .02066 | .00031 | .00003 | .00661 | .02929 | .00023 | .00003 |
| #2 | -.00054 | .00510 | -.00050 | .01961 | .00032 | .00000 | .00376 | .03037 | .00004 | -.00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00006** | **.07108** | **.01516** | **.41052** | **.00177** | **.00590** | **.00019** | **.00002** | **424.82** | **.00023** |
| Stddev | .00003 | .00061 | .00293 | .06509 | .00144 | .00062 | .00001 | .00012 | 1.42 | .00006 |
| %RSD | 55.526 | .85665 | 19.326 | 15.855 | 81.508 | 10.521 | 5.0775 | 597.46 | .33533 | 25.204 |
| #1 | -.00003 | .07151 | .01723 | .36449 | .00278 | .00546 | .00019 | .00011 | 423.81 | .00019 |
| #2 | -.00008 | .07065 | .01309 | .45654 | .00075 | .00634 | .00018 | -.00007 | 425.83 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00624** | **-.00103** | **28.076** | **.00020** | **.00135** | **.03965** | **.08485** | **-.00064** | **.00067** | **-.00226** |
| Stddev | .00037 | .00068 | .026 | .00013 | .00141 | .00539 | .01154 | .00070 | .00007 | .00146 |
| %RSD | 5.9699 | 66.037 | .09427 | 67.531 | 104.74 | 13.599 | 13.599 | 109.65 | 10.079 | 64.715 |
| #1 | .00597 | -.00055 | 28.057 | .00029 | .00035 | .04346 | .09301 | -.00014 | .00062 | -.00123 |
| #2 | .00650 | -.00152 | 28.095 | .00010 | .00234 | .03584 | .07669 | -.00114 | .00071 | -.00330 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.00039** | **.01690** | **-.00035** | **.00543** | **.00557** |
| Stddev | .00049 | .00019 | .02827 | .00037 | .00017 | .00133 |
| %RSD | 138.85 | 49.592 | 167.31 | 103.67 | 3.1188 | 23.825 |
| #1 | .00070 | .00026 | -.00309 | -.00009 | .00555 | .00651 |
| #2 | .00001 | .00053 | .03688 | -.00061 | .00531 | .00464 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8830.0** | **108140.** | **9533.2** |
| Stddev | 1.4 | 571. | 23.0 |
| %RSD | .01608 | .52764 | .24103 |
| #1 | 8831.0 | 107740. | 9517.0 |
| #2 | 8829.0 | 108540. | 9549.5 |

Sample Name: 280-45486-a-2-a  Acquired: 8/16/2013 0:19:56  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187265  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00232** | **.00059** | **.01682** | **.00005** | **-.00002** | **.00522** | **.01457** | **.00007** | **-.00008** |
| Stddev | .00007 | .00038 | .00086 | .00047 | .00036 | .00006 | .00002 | .00314 | .00003 | .00017 |
| %RSD | 30.680 | 16.552 | 145.52 | 2.7954 | 798.03 | 266.90 | .43299 | 21.576 | 38.996 | 206.95 |
| #1 | .00019 | .00205 | .00120 | .01715 | -.00021 | .00002 | .00524 | .01679 | .00009 | .00004 |
| #2 | .00030 | .00259 | -.00002 | .01649 | .00030 | -.00006 | .00521 | .01235 | .00005 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.03403** | **.00330** | **.32472** | **.00314** | **.00538** | **.00025** | **.00012** | **214.61** | **.00050** |
| Stddev | .00014 | .00018 | .00231 | .03578 | .00044 | .00266 | .00000 | .00009 | .92 | .00013 |
| %RSD | 211.11 | .52465 | 70.140 | 11.018 | 13.956 | 49.393 | .65717 | 78.116 | .43034 | 25.330 |
| #1 | .00017 | .03416 | .00493 | .29942 | .00283 | .00350 | .00025 | .00019 | 213.96 | .00059 |
| #2 | -.00003 | .03391 | .00166 | .35002 | .00345 | .00726 | .00025 | .00005 | 215.27 | .00041 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00429** | **-.00076** | **54.181** | **-.00140** | **.00174** | **.02317** | **.04959** | **-.00058** | **.00052** | **-.00143** |
| Stddev | .00006 | .00022 | .026 | .00130 | .00053 | .01182 | .02530 | .00022 | .00002 | .00086 |
| %RSD | 1.3406 | 28.480 | .04767 | 92.698 | 30.330 | 51.015 | 51.015 | 37.661 | 4.7894 | 59.868 |
| #1 | .00425 | -.00091 | 54.163 | -.00048 | .00212 | .03153 | .06747 | -.00073 | .00054 | -.00204 |
| #2 | .00433 | -.00060 | 54.199 | -.00231 | .00137 | .01481 | .03170 | -.00042 | .00050 | -.00083 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00077** | **.01291** | **-.00028** | **.00437** | **.00408** |
| Stddev | .00027 | .00015 | .02776 | .00001 | .00012 | .00040 |
| %RSD | 60.042 | 20.183 | 215.00 | 4.0261 | 2.7438 | 9.7841 |
| #1 | .00026 | .00088 | -.00672 | -.00029 | .00446 | .00436 |
| #2 | .00063 | .00066 | .03254 | -.00028 | .00429 | .00379 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8983.6** | **110750.** | **9657.9** |
| Stddev | 35.6 | 83. | 12.4 |
| %RSD | .39635 | .07455 | .12845 |
| #1 | 8958.4 | 110800. | 9666.7 |
| #2 | 9008.8 | 110690. | 9649.1 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 0:22:22 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **49.460** | **.00455** | **.01589** | **.00079** | **-.00004** | **1.0393** | **-.00858** | **.00027** | **.00023** | **-.00018** | **.00278** |
| Stddev | .00062 | .016 | .00060 | .00054 | .00050 | .00002 | .0010 | .00150 | .00001 | .00009 | .00003 | .00061 |
| %RSD | 137.73 | .03162 | 13.191 | 3.4256 | 64.045 | 53.895 | .09489 | 17.427 | 3.2684 | 39.504 | 15.434 | 21.931 |
| #1 | .00089 | 49.471 | .00413 | .01628 | .00114 | -.00002 | 1.0386 | -.00964 | .00028 | .00017 | -.00020 | .00321 |
| #2 | .00001 | 49.449 | .00498 | .01551 | .00043 | -.00005 | 1.0400 | -.00752 | .00026 | .00030 | -.00016 | .00235 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.529** | **.31746** | **.00300** | **-.00205** | **-.00002** | **.00010** | **254.20** | **.00087** | **.00265** | **.00125** | W **5.2797** | **-.00063** |
| Stddev | .233 | .01658 | .00077 | .00042 | .00004 | .00008 | .11 | .00005 | .00146 | .00114 | .0038 | .00191 |
| %RSD | .46947 | 5.2230 | 25.620 | 20.482 | 272.45 | 79.207 | .04454 | 5.2221 | 55.232 | 91.023 | .07270 | 303.74 |
| #1 | 49.365 | .32918 | .00354 | -.00175 | -.00005 | .00004 | 254.12 | .00090 | .00162 | .00045 | 5.2770 | .00072 |
| #2 | 49.694 | .30573 | .00246 | -.00235 | .00001 | .00015 | 254.28 | .00084 | .00368 | .00206 | 5.2824 | -.00198 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Warn | None |
| Value | | | | | | | | | | | 5.0000 | |
| Range | | | | | | | | | | | 5.0000% | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00199** | **.01522** | **.03256** | **-.00120** | **.00042** | **4.8664** | **.00034** | **.00085** | **10.279** | **.00037** | **-.00018** | **.02726** |
| Stddev | .00051 | .00896 | .01918 | .00003 | .00016 | .0057 | .00011 | .00034 | .086 | .00016 | .00007 | .00086 |
| %RSD | 25.503 | 58.905 | 58.905 | 2.7713 | 37.497 | .11727 | 30.985 | 40.449 | .83910 | 43.005 | 40.408 | 3.1650 |
| #1 | -.00234 | .00888 | .01900 | -.00122 | .00054 | 4.8705 | .00027 | .00061 | 10.340 | .00049 | -.00013 | .02665 |
| #2 | -.00163 | .02155 | .04612 | -.00118 | .00031 | 4.8624 | .00042 | .00109 | 10.218 | .00026 | -.00023 | .02787 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9046.7** | **111160.** | **9693.9** |
| Stddev | 11.6 | 318. | 2.3 |
| %RSD | .12842 | .28642 | .02333 |
| #1 | 9038.5 | 110930. | 9692.3 |
| #2 | 9054.9 | 111380. | 9695.5 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 0:24:43 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49682** | **.50679** | **1.0050** | **.52550** | **.50499** | **.49473** | **.00339** | **5.0058** | **.51089** | **.50619** | **.50097** | **.50286** | **2.5103** |
| Stddev | .00019 | .00289 | .0052 | .00225 | .00037 | .00032 | .00169 | .0005 | .00006 | .00038 | .00034 | .00169 | .0010 |
| %RSD | .03833 | .57114 | .52169 | .42780 | .07419 | .06376 | 49.671 | .01077 | .01163 | .07597 | .06857 | .33630 | .03781 |
| #1 | .49696 | .50474 | 1.0013 | .52392 | .50526 | .49495 | .00220 | 5.0062 | .51093 | .50592 | .50072 | .50406 | 2.5097 |
| #2 | .49669 | .50883 | 1.0087 | .52709 | .50473 | .49450 | .00459 | 5.0054 | .51085 | .50647 | .50121 | .50166 | 2.5110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.697** | **.96408** | **19.211** | **.49045** | **.50256** | **5.3553** | **.50618** | **1.0160** | **1.0151** | **.10275** | **1.0238** | **1.0236** | **4.8983** |
| Stddev | .086 | .00242 | .010 | .00113 | .00086 | .0176 | .00038 | .0013 | .0003 | .00512 | .0001 | .0048 | .0394 |
| %RSD | .17292 | .25061 | .05327 | .23040 | .17175 | .32884 | .07577 | .12299 | .02765 | 4.9818 | .00732 | .46903 | .80336 |
| #1 | 49.636 | .96238 | 19.204 | .48965 | .50195 | 5.3677 | .50646 | 1.0169 | 1.0149 | .10637 | 1.0238 | 1.0202 | 4.9261 |
| #2 | 49.758 | .96579 | 19.219 | .49125 | .50317 | 5.3428 | .50591 | 1.0151 | 1.0153 | .09913 | 1.0237 | 1.0270 | 4.8705 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.482** | **1.0056** | **.50143** | **-.00362** | **.49176** | **1.0294** | **-.00709** | **.49453** | **.48337** | **.49942** |
| Stddev | .084 | .0003 | .00004 | .00010 | .00028 | .0031 | .02336 | .00004 | .00064 | .00310 |
| %RSD | .80336 | .03252 | .00786 | 2.7868 | .05787 | .29789 | 329.31 | .00763 | .13304 | .62081 |
| #1 | 10.542 | 1.0054 | .50141 | -.00369 | .49156 | 1.0272 | .00943 | .49456 | .48292 | .49723 |
| #2 | 10.423 | 1.0058 | .50146 | -.00355 | .49196 | 1.0316 | -.02361 | .49450 | .48383 | .50161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9237.6** | **114950.** | **9676.1** |
| Stddev | 9.9 | 463. | 7.6 |
| %RSD | .10751 | .40254 | .07843 |
| #1 | 9244.6 | 115270. | 9681.5 |
| #2 | 9230.5 | 114620. | 9670.7 |

Sample Name: CCB  Acquired: 8/16/2013 0:26:50  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | W **.02030** | **.00181** | F **.01208** | **-.00010** | **.00008** | **.00479** | **-.00246** | **.00005** | **.00006** | **-.00005** | **-.00064** |
| Stddev | .00010 | .00009 | .00018 | .00049 | .00008 | .00002 | .00010 | .00296 | .00011 | .00014 | .00007 | .00018 |
| %RSD | 11.642 | .45036 | 9.7155 | 4.0436 | 84.264 | 21.907 | 2.0399 | 120.49 | 220.33 | 233.79 | 135.80 | 28.669 |
| #1 | .00078 | .02037 | .00168 | .01242 | -.00004 | .00009 | .00472 | -.00455 | -.00003 | .00015 | .00000 | -.00077 |
| #2 | .00092 | .02024 | .00193 | .01173 | -.00015 | .00007 | .00486 | -.00036 | .00013 | -.00004 | -.00010 | -.00051 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .01800 | | .00700 | | | | | | | | |
| Low Limit | | -.01800 | | -.00700 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00181** | **.18180** | **.00043** | **.00080** | **.00006** | **.00074** | F **.30454** | **-.00006** | **.00146** | **-.00203** | **.08356** | F **.00702** |
| Stddev | .00245 | .05007 | .00198 | .00164 | .00001 | .00026 | .00959 | .00014 | .00049 | .00001 | .00183 | .00162 |
| %RSD | 134.82 | 27.541 | 463.45 | 205.87 | 19.977 | 35.778 | 3.1489 | 212.82 | 33.238 | .45707 | 2.1859 | 23.085 |
| #1 | .00354 | .14640 | -.00097 | -.00036 | .00007 | .00092 | .29776 | .00003 | .00181 | -.00203 | .08486 | .00587 |
| #2 | .00008 | .21721 | .00183 | .00196 | .00005 | .00055 | .31132 | -.00016 | .00112 | -.00204 | .08227 | .00816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | .18320 | | | | | .00628 |
| Low Limit | | | | | | | -.18320 | | | | | -.00628 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00088** | **.00878** | **.01879** | **-.00120** | **.00006** | **.00256** | **.00050** | **.00213** | **-.03692** | **-.00021** | **.00139** | **.00224** |
| Stddev | .00006 | .00579 | .01239 | .00016 | .00010 | .00187 | .00002 | .00064 | .01065 | .00019 | .00018 | .00219 |
| %RSD | 7.1133 | 65.934 | 65.934 | 13.165 | 166.89 | 72.957 | 4.4472 | 30.266 | 28.855 | 88.639 | 13.004 | 97.873 |
| #1 | .00084 | .01288 | .02756 | -.00109 | -.00001 | .00124 | .00048 | .00167 | -.04445 | -.00035 | .00152 | .00069 |
| #2 | .00093 | .00469 | .01003 | -.00132 | .00013 | .00388 | .00051 | .00258 | -.02939 | -.00008 | .00126 | .00379 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9260.1** | **115990.** | **9594.2** |
| Stddev | 10.9 | 248. | 40.9 |
| %RSD | .11761 | .21381 | .42677 |
| #1 | 9267.8 | 116160. | 9565.2 |
| #2 | 9252.4 | 115810. | 9623.1 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 0:29:06 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01023** | F **.13866** | **.01544** | **.11094** | **.01017** | **.00105** | **.12110** | **.19948** | **.00541** | **.01081** | **.01006** | **.01501** | **.10276** |
| Stddev | .00027 | .00041 | .00112 | .00021 | .00020 | .00007 | .00010 | .00261 | .00002 | .00009 | .00015 | .00000 | .00059 |
| %RSD | 2.6508 | .29680 | 7.2243 | .18998 | 1.9572 | 6.9157 | .08467 | 1.3085 | .31165 | .79664 | 1.4754 | .02150 | .57468 |
| #1 | .01042 | .13836 | .01623 | .11079 | .01031 | .00099 | .12118 | .19764 | .00543 | .01074 | .00996 | .01500 | .10318 |
| #2 | .01004 | .13895 | .01466 | .11109 | .01003 | .00110 | .12103 | .20133 | .00540 | .01087 | .01017 | .01501 | .10235 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .10000 | | | | | | | | | | | |
| Range | | 30.000% | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1720** | **.00959** | **.20679** | **.01032** | **.01947** | F **1.3363** | **.04259** | **2.9964** | **.00871** | **.06493** | **.01020** | **.01847** | **.48918** |
| Stddev | .0848 | .00275 | .00044 | .00004 | .00012 | .0039 | .00001 | .0015 | .00025 | .00146 | .00118 | .00178 | .01157 |
| %RSD | 2.6727 | 28.648 | .21411 | .34524 | .64149 | .29262 | .01506 | .04997 | 2.8184 | 2.2534 | 11.576 | 9.6530 | 2.3653 |
| #1 | 3.1120 | .00765 | .20711 | .01034 | .01938 | 1.3391 | .04260 | 2.9953 | .00888 | .06596 | .00936 | .01721 | .48099 |
| #2 | 3.2319 | .01154 | .20648 | .01029 | .01956 | 1.3335 | .04259 | 2.9974 | .00853 | .06390 | .01103 | .01973 | .49736 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | 1.0000 | | | | | | | |
| Range | | | | | | 30.000% | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0468** | **.10088** | **.01033** | **.01453** | **.00976** | **.01835** | **.05014** | **.00894** | **.02101** | F **.01973** |
| Stddev | .0248 | .00052 | .00012 | .00082 | .00014 | .00039 | .03401 | .00057 | .00004 | .00045 |
| %RSD | 2.3653 | .51861 | 1.1861 | 5.6555 | 1.4655 | 2.1248 | 67.830 | 6.4243 | .16854 | 2.2562 |
| #1 | 1.0293 | .10051 | .01042 | .01394 | .00966 | .01862 | .02609 | .00853 | .02104 | .02005 |
| #2 | 1.0643 | .10124 | .01024 | .01511 | .00986 | .01807 | .07419 | .00935 | .02099 | .01942 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9422.6** | **117850.** | **9756.1** |
| Stddev | 16.1 | 151. | 79.8 |
| %RSD | .17118 | .12792 | .81805 |
| #1 | 9411.2 | 117950. | 9812.6 |
| #2 | 9434.0 | 117740. | 9699.7 |

Sample Name: mb 280-187263/1-a  Acquired: 8/16/2013 0:31:22  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.00202** | **.00180** | **.00941** | **-.00023** | **-.00002** | **.00442** | **.00244** | **.00008** | **.00009** |
| Stddev | .00029 | .00029 | .00284 | .00018 | .00018 | .00002 | .00009 | .00013 | .00024 | .00007 |
| %RSD | 79.322 | 14.491 | 158.39 | 1.9362 | 77.811 | 92.485 | 2.0123 | 5.3259 | 301.72 | 71.692 |
| #1 | .00016 | .00222 | -.00022 | .00953 | -.00036 | -.00004 | .00435 | .00253 | -.00009 | .00014 |
| #2 | .00056 | .00181 | .00381 | .00928 | -.00010 | -.00001 | .00448 | .00235 | .00024 | .00005 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00000** | **-.00089** | **.00027** | **.16603** | **.00364** | **.00255** | **.00020** | **.00006** | **.30708** | **.00032** |
| Stddev | .0001 | .00035 | .00388 | .01684 | .00090 | .00237 | .00004 | .00011 | .03167 | .00006 |
| %RSD | 1184.8 | 38.820 | 1435.7 | 10.142 | 24.796 | 92.821 | 19.582 | 195.21 | 10.314 | 19.108 |
| #1 | .00003 | -.00114 | .00301 | .17793 | .00300 | .00423 | .00017 | .00014 | .32947 | .00036 |
| #2 | -.00004 | -.00065 | -.00247 | .15412 | .00427 | .00088 | .00023 | -.00002 | .28468 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00201** | **-.00030** | W **.06876** | **-.00017** | **.00071** | **.00627** | **.01343** | **-.00089** | **-.00003** | **.00172** |
| Stddev | .00026 | .00092 | .00139 | .00044 | .00312 | .01644 | .03519 | .00013 | .00013 | .00085 |
| %RSD | 13.156 | 307.42 | 2.0277 | 256.29 | 439.39 | 262.04 | 262.04 | 14.770 | 437.52 | 49.657 |
| #1 | .00183 | -.00095 | .06975 | -.00048 | -.00150 | .01790 | .03831 | -.00079 | -.00012 | .00232 |
| #2 | .00220 | .00035 | .06778 | .00014 | .00292 | -.00535 | -.01145 | -.00098 | .00006 | .00111 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | .05000 | | | | | | | |
| Low Limit | | | -.05000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00061** | **-.01705** | **-.00045** | **.00363** | **.00404** |
| Stddev | .00003 | .00039 | .00231 | .00025 | .00003 | .00069 |
| %RSD | 8.8935 | 63.794 | 13.575 | 56.051 | .90052 | 17.165 |
| #1 | .00039 | .00088 | -.01868 | -.00063 | .00361 | .00453 |
| #2 | .00035 | .00033 | -.01541 | -.00027 | .00366 | .00355 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9279.6** | **116440.** | **9590.2** |
| Stddev | 11.7 | 238. | 21.2 |
| %RSD | .12630 | .20439 | .22130 |
| #1 | 9271.3 | 116270. | 9605.3 |
| #2 | 9287.9 | 116610. | 9575.2 |

Sample Name: lcs 280-187263/2-a  Acquired: 8/16/2013 0:33:38  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04877** | **1.9140** | **1.0208** | **1.0241** | **2.0420** | **.04960** | **2.1340** | **49.720** | **.10717** | **.49510** |
| Stddev | .00024 | .0017 | .0017 | .0020 | .0009 | .00015 | .0064 | .036 | .00040 | .00052 |
| %RSD | .48850 | .08966 | .17094 | .19133 | .04303 | .29901 | .29943 | .07290 | .37586 | .10469 |
| #1 | .04894 | 1.9152 | 1.0196 | 1.0255 | 2.0426 | .04970 | 2.1385 | 49.745 | .10745 | .49546 |
| #2 | .04860 | 1.9128 | 1.0220 | 1.0227 | 2.0414 | .04949 | 2.1295 | 49.694 | .10688 | .49473 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20168** | **.25436** | **1.0039** | **50.370** | **.96716** | **48.026** | **.48858** | **1.0181** | **51.644** | **.49602** |
| Stddev | .00009 | .00086 | .0036 | .054 | .00045 | .145 | .00184 | .0013 | .257 | .00020 |
| %RSD | .04585 | .33894 | .35576 | .10794 | .04663 | .30144 | .37681 | .12624 | .49751 | .04027 |
| #1 | .20161 | .25375 | 1.0064 | 50.331 | .96684 | 47.923 | .48728 | 1.0190 | 51.462 | .49588 |
| #2 | .20174 | .25497 | 1.0013 | 50.408 | .96748 | 48.128 | .48988 | 1.0172 | 51.825 | .49617 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.314** | **.50083** | **.04987** | **.49372** | **2.0102** | **9.9505** | **21.294** | **2.0072** | **1.0135** | **.96847** |
| Stddev | .029 | .00060 | .00039 | .00198 | .0018 | .0694 | .148 | .0010 | .0011 | .00089 |
| %RSD | .27880 | .11988 | .78670 | .40161 | .09072 | .69737 | .69737 | .05034 | .10746 | .09190 |
| #1 | 10.334 | .50040 | .05015 | .49512 | 2.0115 | 9.9014 | 21.189 | 2.0065 | 1.0127 | .96784 |
| #2 | 10.294 | .50125 | .04959 | .49231 | 2.0089 | 9.9996 | 21.399 | 2.0079 | 1.0142 | .96910 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99969** | **1.9644** | **2.1420** | **.50526** | **.47799** | **.51020** |
| Stddev | .00175 | .0059 | .0191 | .00061 | .00079 | .00279 |
| %RSD | .17513 | .29910 | .89328 | .12018 | .16527 | .54672 |
| #1 | .99845 | 1.9602 | 2.1284 | .50483 | .47743 | .50823 |
| #2 | 1.0009 | 1.9685 | 2.1555 | .50569 | .47855 | .51218 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8945.3** | **111010.** | **9500.2** |
| Stddev | 17.1 | 387. | 61.4 |
| %RSD | .19074 | .34902 | .64615 |
| #1 | 8957.3 | 111290. | 9456.8 |
| #2 | 8933.2 | 110740. | 9543.6 |

Sample Name: 280-45456-c-1-a  Acquired: 8/16/2013 0:35:44  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00097** | **.51460** | **.00001** | **.01376** | **.02851** | **.00013** | **.00351** | **13.300** | **.00008** | **.00014** |
| Stddev | .00022 | .00087 | .00043 | .00030 | .00007 | .00011 | .00147 | .035 | .00013 | .00023 |
| %RSD | 22.226 | .16880 | 3297.5 | 2.1951 | .23482 | 88.403 | 41.831 | .26065 | 160.64 | 164.26 |
| #1 | .00112 | .51399 | .00031 | .01398 | .02846 | .00021 | .00247 | 13.276 | -.00001 | .00030 |
| #2 | .00082 | .51522 | -.00029 | .01355 | .02855 | .00005 | .00454 | 13.325 | .00018 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00216** | **.31702** | **.86929** | **.00355** | **1.4748** | **.02296** | **.00211** | **3.4453** | **.00081** |
| Stddev | .00010 | .00027 | .00206 | .02503 | .00017 | .0020 | .00008 | .00013 | .0081 | .00031 |
| %RSD | 20.371 | 12.508 | .64906 | 2.8796 | 4.6762 | .13370 | .35037 | 6.0378 | .23419 | 37.969 |
| #1 | .00043 | .00235 | .31556 | .85159 | .00367 | 1.4761 | .02290 | .00202 | 3.4396 | .00059 |
| #2 | .00058 | .00197 | .31847 | .88699 | .00343 | 1.4734 | .02301 | .00221 | 3.4510 | .00102 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02735** | **-.00105** | **1.1598** | **-.00357** | **.00192** | **4.9545** | **10.603** | **-.00097** | **.10971** | **.00238** |
| Stddev | .00185 | .00058 | .0019 | .00061 | .00559 | .0122 | .026 | .00002 | .00061 | .00106 |
| %RSD | 6.7755 | 55.408 | .16466 | 17.128 | 291.64 | .24674 | .24674 | 2.5305 | .55529 | 44.572 |
| #1 | .02866 | -.00146 | 1.1611 | -.00313 | -.00204 | 4.9459 | 10.584 | -.00098 | .10928 | .00314 |
| #2 | .02604 | -.00064 | 1.1584 | -.00400 | .00587 | 4.9632 | 10.621 | -.00095 | .11014 | .00163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01523** | **.00080** | **-.03538** | **.00063** | **.00348** | **.00521** |
| Stddev | .00023 | .00021 | .00123 | .00040 | .00027 | .00155 |
| %RSD | 1.5365 | 26.987 | 3.4859 | 63.326 | 7.6256 | 29.765 |
| #1 | .01539 | .00064 | -.03625 | .00035 | .00367 | .00412 |
| #2 | .01506 | .00095 | -.03450 | .00091 | .00329 | .00631 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9381.1** | **117260.** | **9638.6** |
| Stddev | 7.5 | 163. | 124.0 |
| %RSD | .08031 | .13866 | 1.2867 |
| #1 | 9386.5 | 117150. | 9726.3 |
| #2 | 9375.8 | 117380. | 9550.9 |

Sample Name: 280-45456-c-1-aSD@5 Acquired: 8/16/2013 0:38:02 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187263 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.18235** | **.00147** | **.00970** | **.00810** | **.00006** | **.00358** | **3.7830** | **.00031** | **.00011** |
| Stddev | .00005 | .00076 | .00144 | .00011 | .00040 | .00005 | .00087 | .0072 | .00003 | .00007 |
| %RSD | 8.3981 | .41628 | 97.822 | 1.1283 | 4.9419 | 92.661 | 24.400 | .19028 | 8.8275 | 65.185 |
| #1 | .00056 | .18289 | .00249 | .00977 | .00838 | .00010 | .00296 | 3.7881 | .00029 | .00016 |
| #2 | .00063 | .18182 | .00045 | .00962 | .00782 | .00002 | .00420 | 3.7779 | .00033 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **.00028** | **.09969** | **.32851** | **.00221** | **.41782** | **.00661** | **.00036** | **1.1069** | **.00013** |
| Stddev | .00001 | .00028 | .00123 | .03235 | .00218 | .00272 | .00001 | .00017 | .0054 | .00020 |
| %RSD | 9.5317 | 99.364 | 1.2316 | 9.8461 | 98.974 | .65132 | .17878 | 48.887 | .48839 | 149.95 |
| #1 | .00014 | .00008 | .09882 | .35138 | .00066 | .41975 | .00660 | .00023 | 1.1031 | .00028 |
| #2 | .00017 | .00047 | .10056 | .30564 | .00375 | .41590 | .00662 | .00048 | 1.1107 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00862** | **-.00114** | **.35574** | **-.00517** | **.00402** | **1.3906** | **2.9759** | **-.00069** | **.03110** | **.00057** |
| Stddev | .00050 | .00038 | .00037 | .00144 | .00296 | .0145 | .0310 | .00012 | .00010 | .00043 |
| %RSD | 5.7843 | 33.023 | .10485 | 27.904 | 73.635 | 1.0407 | 1.0407 | 17.411 | .33662 | 74.878 |
| #1 | .00826 | -.00140 | .35547 | -.00619 | .00193 | 1.3804 | 2.9540 | -.00077 | .03103 | .00027 |
| #2 | .00897 | -.00087 | .35600 | -.00415 | .00611 | 1.4008 | 2.9978 | -.00060 | .03118 | .00087 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00490** | **.00042** | **-.02527** | **-.00020** | **.00361** | **.00542** |
| Stddev | .00008 | .00072 | .03041 | .00034 | .00014 | .00034 |
| %RSD | 1.6313 | 170.21 | 120.31 | 169.78 | 3.9298 | 6.1839 |
| #1 | .00495 | -.00009 | -.00377 | .00004 | .00351 | .00518 |
| #2 | .00484 | .00093 | -.04677 | -.00043 | .00371 | .00565 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9259.2** | **116370.** | **9592.8** |
| Stddev | 8.8 | 239. | 34.1 |
| %RSD | .09481 | .20572 | .35514 |
| #1 | 9253.0 | 116200. | 9568.7 |
| #2 | 9265.4 | 116540. | 9616.9 |

Sample Name: 280-45456-c-1-b ms  Acquired: 8/16/2013 0:40:20  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04029** | **2.3520** | W **2.5352** | **.83499** | **.84757** | **1.7039** | **.04047** | F **1.7671** | **53.178** | **.08771** |
| Stddev | .00056 | .0026 | .0083 | .00076 | .00128 | .0062 | .00013 | .0021 | .097 | .00000 |
| %RSD | 1.3799 | .11232 | .32758 | .09095 | .15151 | .36445 | .31662 | .11703 | .18313 | .00410 |
| #1 | .04068 | 2.3539 | 2.5294 | .83552 | .84666 | 1.6995 | .04038 | 1.7657 | 53.109 | .08771 |
| #2 | .03989 | 2.3501 | 2.5411 | .83445 | .84848 | 1.7083 | .04056 | 1.7686 | 53.247 | .08772 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | | |
| Low Limit | | | 3.2000 | | | | | -.10000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40276** | **.16519** | **.20928** | **1.2196** | **41.833** | **.78898** | **40.417** | **.41718** | **.83428** | **45.743** |
| Stddev | .00072 | .00015 | .00058 | .0000 | .151 | .00269 | .068 | .00128 | .00032 | .258 |
| %RSD | .17822 | .08942 | .27523 | .00189 | .35978 | .34063 | .16811 | .30798 | .03786 | .56496 |
| #1 | .40327 | .16509 | .20969 | 1.2196 | 41.726 | .78708 | 40.465 | .41809 | .83451 | 45.561 |
| #2 | .40225 | .16530 | .20887 | 1.2196 | 41.939 | .79088 | 40.369 | .41628 | .83406 | 45.926 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.40641** | W **8.4773** | **.40803** | **1.1454** | **.40058** | **1.6518** | **13.670** | **29.254** | **1.6505** | **.92596** |
| Stddev | .00017 | .0046 | .00139 | .0027 | .00095 | .0042 | .041 | .087 | .0029 | .00298 |
| %RSD | .04194 | .05466 | .34131 | .23583 | .23710 | .25361 | .29868 | .29868 | .17839 | .32143 |
| #1 | .40629 | 8.4740 | .40901 | 1.1473 | .40125 | 1.6547 | 13.641 | 29.192 | 1.6526 | .92386 |
| #2 | .40653 | 8.4806 | .40704 | 1.1435 | .39991 | 1.6488 | 13.699 | 29.315 | 1.6484 | .92807 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.0000 | | | | | | | | |
| Low Limit | | -1.0000 | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.77698** | **.82594** | **1.6122** | **1.7839** | **.41124** | **.39255** | **.41775** |
| Stddev | .00005 | .00252 | .0087 | .0330 | .00017 | .00072 | .00453 |
| %RSD | .00632 | .30554 | .53736 | 1.8472 | .04171 | .18303 | 1.0845 |
| #1 | .77694 | .82773 | 1.6183 | 1.7606 | .41136 | .39306 | .41454 |
| #2 | .77701 | .82416 | 1.6061 | 1.8072 | .41112 | .39204 | .42095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9013.9** | **112200.** | **9495.7** |
| Stddev | 10.8 | 170. | 16.6 |
| %RSD | .11930 | .15190 | .17440 |
| #1 | 9006.3 | 112080. | 9507.4 |
| #2 | 9021.5 | 112320. | 9484.0 |

Sample Name: 280-45456-c-1-c msd  Acquired: 8/16/2013 0:42:25  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03959** | **2.3329** | W **2.5163** | **.82317** | **.83068** | **1.6761** | **.04001** | F **1.7277** | **52.413** | **.08562** |
| Stddev | .00075 | .0037 | .0185 | .00065 | .00021 | .0010 | .00008 | .0036 | .129 | .00005 |
| %RSD | 1.8830 | .15630 | .73651 | .07932 | .02563 | .05986 | .19398 | .20913 | .24581 | .05591 |
| #1 | .03906 | 2.3303 | 2.5032 | .82271 | .83053 | 1.6754 | .03995 | 1.7303 | 52.322 | .08559 |
| #2 | .04012 | 2.3355 | 2.5294 | .82364 | .83083 | 1.6768 | .04006 | 1.7252 | 52.504 | .08565 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | | |
| Low Limit | | | 3.2000 | | | | | -.10000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39581** | **.16193** | **.20548** | **1.2049** | **41.184** | **.77676** | **39.509** | **.40795** | **.81515** | **44.720** |
| Stddev | .00023 | .00011 | .00029 | .0035 | .178 | .00076 | .049 | .00034 | .00094 | .148 |
| %RSD | .05701 | .06526 | .14110 | .28680 | .43228 | .09838 | .12410 | .08316 | .11500 | .33104 |
| #1 | .39565 | .16186 | .20527 | 1.2025 | 41.058 | .77622 | 39.474 | .40771 | .81582 | 44.616 |
| #2 | .39597 | .16201 | .20568 | 1.2074 | 41.309 | .77731 | 39.543 | .40819 | .81449 | 44.825 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39958** | W **8.3168** | **.39972** | **1.1243** | **.39196** | **1.6230** | **13.436** | **28.753** | **1.6105** | **.91264** |
| Stddev | .00047 | .0108 | .00013 | .0007 | .00048 | .0007 | .059 | .127 | .0014 | .00187 |
| %RSD | .11699 | .13002 | .03155 | .05861 | .12337 | .04411 | .44260 | .44260 | .08831 | .20443 |
| #1 | .39991 | 8.3092 | .39963 | 1.1238 | .39230 | 1.6235 | 13.394 | 28.663 | 1.6095 | .91132 |
| #2 | .39924 | 8.3244 | .39981 | 1.1247 | .39162 | 1.6225 | 13.478 | 28.843 | 1.6115 | .91396 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.0000 | | | | | | | | |
| Low Limit | | -1.0000 | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.75947** | **.80729** | **1.5813** | **1.6915** | **.40302** | **.38149** | **.40903** |
| Stddev | .00141 | .00013 | .0019 | .0408 | .00153 | .00050 | .00254 |
| %RSD | .18558 | .01553 | .11996 | 2.4111 | .37912 | .13069 | .62052 |
| #1 | .75847 | .80738 | 1.5800 | 1.6626 | .40410 | .38114 | .40723 |
| #2 | .76047 | .80720 | 1.5826 | 1.7203 | .40194 | .38184 | .41082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8986.8** | **112300.** | **9562.9** |
| Stddev | 12.8 | 1. | 64.9 |
| %RSD | .14296 | .00052 | .67816 |
| #1 | 8995.9 | 112300. | 9608.7 |
| #2 | 8977.7 | 112300. | 9517.0 |

Sample Name: 280-45456-c-2-a  Acquired: 8/16/2013 0:44:30  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00013** | **.46730** | **.00044** | **.01171** | **.03010** | **.00004** | **.00283** | **13.432** | **.00041** | **.00030** |
| Stddev | .00017 | .00175 | .00015 | .00001 | .00047 | .00004 | .00002 | .040 | .00010 | .00018 |
| %RSD | 130.56 | .37428 | 33.314 | .06872 | 1.5468 | 107.24 | .72985 | .30002 | 23.225 | 60.591 |
| #1 | -.00026 | .46853 | .00054 | .01172 | .02978 | .00007 | .00281 | 13.403 | .00048 | .00043 |
| #2 | -.00001 | .46606 | .00033 | .01171 | .03043 | .00001 | .00284 | 13.460 | .00034 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00099** | **.60935** | **.99119** | **.00225** | **2.3018** | **.03039** | **.00146** | **3.9724** | **.00090** |
| Stddev | .00004 | .00042 | .00897 | .03258 | .00140 | .0021 | .00011 | .00024 | .0073 | .00027 |
| %RSD | 12.215 | 42.559 | 1.4721 | 3.2871 | 62.086 | .09307 | .36155 | 16.613 | .18389 | 29.857 |
| #1 | .00033 | .00129 | .60300 | .96815 | .00324 | 2.3033 | .03031 | .00129 | 3.9776 | .00071 |
| #2 | .00028 | .00069 | .61569 | 1.0142 | .00126 | 2.3003 | .03047 | .00164 | 3.9672 | .00109 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03251** | **-.00092** | **2.5561** | **-.00313** | **.00031** | **4.3168** | **9.2379** | **-.00084** | **.11608** | **.00090** |
| Stddev | .00118 | .00046 | .0001 | .00132 | .00151 | .0386 | .0826 | .00096 | .00004 | .00052 |
| %RSD | 3.6252 | 49.247 | .00431 | 42.131 | 490.51 | .89461 | .89461 | 113.93 | .03446 | 58.300 |
| #1 | .03335 | -.00125 | 2.5561 | -.00407 | .00137 | 4.2895 | 9.1795 | -.00152 | .11605 | .00127 |
| #2 | .03168 | -.00060 | 2.5562 | -.00220 | -.00076 | 4.3441 | 9.2963 | -.00016 | .11611 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01240** | **.00122** | **-.03448** | **.00081** | **.00424** | **.00324** |
| Stddev | .00028 | .00012 | .01313 | .00040 | .00021 | .00007 |
| %RSD | 2.2917 | 9.8050 | 38.072 | 49.463 | 5.0184 | 2.2181 |
| #1 | .01220 | .00113 | -.04376 | .00053 | .00439 | .00329 |
| #2 | .01260 | .00130 | -.02520 | .00110 | .00409 | .00319 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9338.5** | **116480.** | **9618.0** |
| Stddev | 8.3 | 684. | 2.4 |
| %RSD | .08896 | .58695 | .02540 |
| #1 | 9344.4 | 116960. | 9616.3 |
| #2 | 9332.6 | 115990. | 9619.7 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 0:46:46 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **49.943** | **.00365** | **.00770** | **.00050** | **.00000** | W **1.0574** | **-.00703** | **.00029** | **.00025** | **-.00004** | **.00370** |
| Stddev | .00117 | .055 | .00163 | .00098 | .00004 | .00009 | .0073 | .00109 | .00005 | .00011 | .00020 | .00064 |
| %RSD | 315.33 | .11091 | 44.618 | 12.797 | 7.8484 | 3013.7 | .68655 | 15.461 | 17.429 | 44.988 | 464.10 | 17.331 |
| #1 | -.00046 | 49.904 | .00250 | .00839 | .00053 | -.00006 | 1.0626 | -.00780 | .00032 | .00033 | -.00019 | .00325 |
| #2 | .00120 | 49.982 | .00480 | .00700 | .00047 | .00007 | 1.0523 | -.00626 | .00025 | .00017 | .00010 | .00415 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.947** | **.18415** | **.00232** | **-.00225** | **-.00001** | **.00026** | **256.98** | **.00072** | **.00122** | **.00056** | **5.1681** | **.00045** |
| Stddev | .153 | .03645 | .00217 | .00132 | .00002 | .00002 | .29 | .00039 | .00089 | .00146 | .0508 | .00022 |
| %RSD | .30595 | 19.794 | 93.602 | 58.703 | 145.04 | 7.8480 | .11097 | 54.112 | 72.900 | 258.45 | .98299 | 48.434 |
| #1 | 49.839 | .20992 | .00385 | -.00319 | -.00003 | .00027 | 256.78 | .00100 | .00185 | .00159 | 5.2040 | .00060 |
| #2 | 50.055 | .15837 | .00078 | -.00132 | .00000 | .00024 | 257.19 | .00045 | .00059 | -.00047 | 5.1322 | .00029 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00350** | **.01072** | **.02293** | **-.00057** | **.00043** | **4.8383** | **-.00028** | **.00224** | **10.418** | **.00087** | **.01355** | **.03360** |
| Stddev | .00209 | .00648 | .01387 | .00020 | .00014 | .0061 | .00008 | .00069 | .030 | .00015 | .00000 | .00547 |
| %RSD | 59.685 | 60.471 | 60.471 | 34.638 | 33.725 | .12534 | 30.285 | 30.859 | .28557 | 17.102 | .02186 | 16.269 |
| #1 | -.00202 | .01530 | .03274 | -.00043 | .00033 | 4.8426 | -.00034 | .00175 | 10.439 | .00098 | .01355 | .02973 |
| #2 | -.00498 | .00613 | .01313 | -.00071 | .00053 | 4.8340 | -.00022 | .00273 | 10.397 | .00077 | .01355 | .03746 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8867.0** | **109150.** | **9382.9** |
| Stddev | 11.0 | 25. | 35.7 |
| %RSD | .12370 | .02267 | .38075 |
| #1 | 8874.7 | 109160. | 9357.6 |
| #2 | 8859.2 | 109130. | 9408.1 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 0:49:06 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49846** | **.50483** | **1.0199** | **.52625** | **.51551** | **.50119** | **.00096** | **5.0535** | **.51571** | **.50824** | **.50736** | **.50277** | **2.5602** |
| Stddev | .00038 | .00073 | .0011 | .00158 | .00011 | .00079 | .00126 | .0000 | .00039 | .00019 | .00049 | .00051 | .0148 |
| %RSD | .07638 | .14513 | .10708 | .29948 | .02217 | .15772 | 130.98 | .00063 | .07500 | .03650 | .09571 | .10204 | .57702 |
| #1 | .49873 | .50431 | 1.0191 | .52514 | .51543 | .50175 | .00007 | 5.0535 | .51543 | .50811 | .50701 | .50313 | 2.5706 |
| #2 | .49819 | .50534 | 1.0207 | .52736 | .51559 | .50064 | .00186 | 5.0535 | .51598 | .50837 | .50770 | .50241 | 2.5497 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.290** | **.97150** | **19.355** | **.48967** | **.51243** | **5.2946** | **.51173** | **1.0332** | **1.0276** | **.03768** | **1.0313** | **1.0392** | **4.9909** |
| Stddev | .093 | .00120 | .004 | .00015 | .00082 | .0017 | .00078 | .0031 | .0002 | .00276 | .0041 | .0042 | .0297 |
| %RSD | .18532 | .12358 | .02010 | .03143 | .15994 | .03171 | .15290 | .30050 | .01610 | 7.3372 | .39468 | .40723 | .59448 |
| #1 | 50.356 | .97065 | 19.352 | .48978 | .51185 | 5.2958 | .51118 | 1.0310 | 1.0274 | .03572 | 1.0341 | 1.0422 | 5.0119 |
| #2 | 50.224 | .97235 | 19.358 | .48956 | .51301 | 5.2934 | .51229 | 1.0354 | 1.0277 | .03963 | 1.0284 | 1.0362 | 4.9700 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.681** | **1.0278** | **.50358** | **-.00358** | **.49070** | **1.0353** | **-.01901** | **.49809** | **.48569** | **.50601** |
| Stddev | .063 | .0027 | .00060 | .00147 | .00045 | .0005 | .03656 | .00032 | .00154 | .00173 |
| %RSD | .59448 | .26801 | .11899 | 41.058 | .09087 | .04549 | 192.39 | .06326 | .31794 | .34172 |
| #1 | 10.726 | 1.0297 | .50316 | -.00254 | .49101 | 1.0356 | -.04486 | .49787 | .48460 | .50724 |
| #2 | 10.636 | 1.0258 | .50400 | -.00462 | .49038 | 1.0350 | .00685 | .49831 | .48678 | .50479 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9108.6** | **113670.** | **9465.4** |
| Stddev | 4.2 | 495. | 54.9 |
| %RSD | .04579 | .43530 | .57958 |
| #1 | 9111.5 | 114020. | 9426.6 |
| #2 | 9105.6 | 113320. | 9504.2 |

Sample Name: CCB  Acquired: 8/16/2013 0:51:13  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **-.00019** | **.00319** | W **.00565** | **-.00014** | **.00003** | **.00395** | **-.00197** | **.00017** | **.00016** | **-.00012** | **-.00004** |
| Stddev | .00008 | .00009 | .00136 | .00034 | .00004 | .00001 | .00036 | .00118 | .00017 | .00012 | .00005 | .00069 |
| %RSD | 32.592 | 46.617 | 42.735 | 5.9539 | 32.583 | 20.622 | 9.1964 | 59.816 | 96.009 | 74.151 | 41.861 | 1829.5 |
| #1 | .00019 | -.00025 | .00415 | .00589 | -.00010 | .00002 | .00369 | -.00280 | .00029 | .00024 | -.00016 | -.00053 |
| #2 | .00031 | -.00013 | .00222 | .00542 | -.00017 | .00003 | .00421 | -.00114 | .00006 | .00007 | -.00009 | .00045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | .00437 | | | | | | | | |
| Low Limit | | | | -.00437 | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00035** | **.15011** | **.00151** | **.00242** | **.00006** | **.00072** | F **.21352** | **.00014** | **.00168** | **-.00052** | **.03337** | W **.00606** |
| Stddev | .00236 | .02903 | .00114 | .00092 | .00003 | .00012 | .01747 | .00003 | .00128 | .00008 | .00215 | .00063 |
| %RSD | 668.98 | 19.338 | 75.963 | 37.854 | 51.012 | 16.658 | 8.1811 | 18.789 | 76.206 | 14.668 | 6.4557 | 10.459 |
| #1 | .00203 | .17064 | .00232 | .00178 | .00004 | .00063 | .22588 | .00016 | .00078 | -.00058 | .03489 | .00561 |
| #2 | -.00132 | .12958 | .00070 | .00307 | .00008 | .00080 | .20117 | .00012 | .00259 | -.00047 | .03184 | .00650 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .18320 | | | | | .00314 |
| Low Limit | | | | | | | -.18320 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00250** | **.01333** | **.02852** | **-.00080** | **-.00005** | **-.00113** | **.00035** | **.00147** | **-.00118** | **-.00063** | **.00133** | W **.00274** |
| Stddev | .00375 | .02067 | .04424 | .00010 | .00021 | .00168 | .00006 | .00048 | .00469 | .00035 | .00035 | .00181 |
| %RSD | 150.01 | 155.12 | 155.12 | 12.123 | 454.98 | 147.95 | 16.359 | 32.830 | 397.02 | 55.074 | 26.576 | 66.213 |
| #1 | -.00015 | .02794 | .05980 | -.00087 | .00010 | .00005 | .00031 | .00113 | -.00450 | -.00088 | .00158 | .00402 |
| #2 | .00515 | -.00129 | -.00276 | -.00074 | -.00020 | -.00232 | .00039 | .00181 | .00214 | -.00039 | .00108 | .00146 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9116.6** | **114880.** | **9399.0** |
| Stddev | 45.4 | 188. | 6.5 |
| %RSD | .49761 | .16332 | .06947 |
| #1 | 9148.7 | 114750. | 9394.3 |
| #2 | 9084.5 | 115010. | 9403.6 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 0:53:29 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01051** | **.10660** | **.01545** | **.10682** | **.01039** | **.00109** | **.12443** | **.20498** | **.00553** | **.01077** | **.01036** | **.01572** | **.10322** |
| Stddev | .00044 | .00023 | .00207 | .00027 | .00016 | .00004 | .00026 | .00060 | .00014 | .00006 | .00003 | .00009 | .00116 |
| %RSD | 4.2163 | .21438 | 13.416 | .25124 | 1.5466 | 3.3201 | .20535 | .29210 | 2.5399 | .55445 | .30293 | .58376 | 1.1271 |
| #1 | .01020 | .10644 | .01692 | .10663 | .01027 | .00112 | .12425 | .20456 | .00563 | .01081 | .01034 | .01579 | .10240 |
| #2 | .01083 | .10676 | .01399 | .10701 | .01050 | .00106 | .12461 | .20541 | .00543 | .01072 | .01038 | .01566 | .10405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.2265** | **.01104** | **.20742** | **.01019** | **.02010** | **1.2444** | **.04298** | **3.0429** | **.00992** | **.02512** | F **.00572** | **.01612** | **.51019** |
| Stddev | .0861 | .00177 | .00020 | .00001 | .00007 | .0056 | .00002 | .0093 | .00002 | .00025 | .00111 | .00097 | .00597 |
| %RSD | 2.6676 | 16.036 | .09512 | .14413 | .36660 | .45214 | .04472 | .30708 | .23577 | .98655 | 19.471 | 6.0075 | 1.1707 |
| #1 | 3.1656 | .00979 | .20728 | .01018 | .02005 | 1.2484 | .04297 | 3.0495 | .00991 | .02494 | .00494 | .01681 | .50597 |
| #2 | 3.2874 | .01229 | .20756 | .01020 | .02015 | 1.2405 | .04300 | 3.0363 | .00994 | .02529 | .00651 | .01544 | .51441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0918** | **.10305** | **.01033** | **.01367** | **.01013** | **.01752** | F **.02109** | **.00943** | **.02138** | **.01857** |
| Stddev | .0128 | .00061 | .00004 | .00146 | .00009 | .00045 | .02337 | .00032 | .00046 | .00292 |
| %RSD | 1.1707 | .59438 | .37005 | 10.699 | .92916 | 2.5710 | 110.82 | 3.4225 | 2.1652 | 15.748 |
| #1 | 1.0828 | .10261 | .01030 | .01263 | .01019 | .01783 | .00456 | .00920 | .02171 | .02064 |
| #2 | 1.1008 | .10348 | .01035 | .01470 | .01006 | .01720 | .03761 | .00966 | .02105 | .01650 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9283.5** | **116180.** | **9519.1** |
| Stddev | 16.2 | 39. | 118.6 |
| %RSD | .17446 | .03363 | 1.2457 |
| #1 | 9272.1 | 116150. | 9602.9 |
| #2 | 9295.0 | 116210. | 9435.3 |

Sample Name: 280-45456-c-3-a  Acquired: 8/16/2013 0:55:45  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.64359** | **.00071** | **.01128** | **.04305** | **.00004** | **.00501** | **17.094** | **.00033** | **.00065** |
| Stddev | .00017 | .00145 | .00044 | .00006 | .00038 | .00004 | .00136 | .027 | .00030 | .00003 |
| %RSD | 53.472 | .22473 | 62.080 | .52204 | .89397 | 96.084 | 27.246 | .15794 | 89.788 | 3.8655 |
| #1 | .00019 | .64256 | .00040 | .01124 | .04332 | .00007 | .00404 | 17.075 | .00055 | .00067 |
| #2 | .00043 | .64461 | .00102 | .01132 | .04278 | .00001 | .00597 | 17.113 | .00012 | .00063 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00049** | **.00222** | **.93111** | **1.2364** | **.00213** | **3.0588** | **.09071** | **.00060** | **5.2176** | **.00109** |
| Stddev | .00002 | .00010 | .00157 | .0010 | .00229 | .0065 | .00036 | .00028 | .0098 | .00021 |
| %RSD | 4.0263 | 4.5434 | .16850 | .08153 | 107.53 | .21279 | .39963 | 46.159 | .18827 | 19.044 |
| #1 | .00050 | .00229 | .93000 | 1.2371 | .00375 | 3.0634 | .09096 | .00041 | 5.2106 | .00124 |
| #2 | .00047 | .00215 | .93222 | 1.2357 | .00051 | 3.0542 | .09045 | .00080 | 5.2245 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05875** | **.00026** | **3.4954** | **-.00396** | **.00115** | **5.1808** | **11.087** | **-.00115** | **.15590** | **.00041** |
| Stddev | .00215 | .00015 | .0048 | .00002 | .00236 | .0337 | .072 | .00018 | .00024 | .00319 |
| %RSD | 3.6514 | 59.810 | .13621 | .45655 | 205.07 | .65095 | .65095 | 15.767 | .15125 | 788.65 |
| #1 | .06027 | .00015 | 3.4987 | -.00395 | -.00052 | 5.1570 | 11.036 | -.00102 | .15573 | -.00185 |
| #2 | .05724 | .00036 | 3.4920 | -.00397 | .00282 | 5.2046 | 11.138 | -.00128 | .15606 | .00266 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01567** | **-.00022** | **.01894** | **.00134** | **.00663** | **.00380** |
| Stddev | .00053 | .00013 | .01781 | .00012 | .00030 | .00060 |
| %RSD | 3.3657 | 58.397 | 94.061 | 9.1418 | 4.5193 | 15.751 |
| #1 | .01530 | -.00013 | .03153 | .00143 | .00642 | .00337 |
| #2 | .01604 | -.00031 | .00634 | .00126 | .00684 | .00422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9235.7** | **115540.** | **9602.0** |
| Stddev | 1.3 | 369. | 31.6 |
| %RSD | .01446 | .31968 | .32900 |
| #1 | 9234.8 | 115280. | 9624.4 |
| #2 | 9236.7 | 115800. | 9579.7 |

Sample Name: 280-45456-c-4-a  Acquired: 8/16/2013 0:58:02  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.17870** | **-.00123** | **.05697** | **.09053** | **.00002** | **.00234** | **53.585** | **.00065** | **.00061** |
| Stddev | .00013 | .00036 | .00007 | .00048 | .00015 | .00003 | .00014 | .196 | .00008 | .00024 |
| %RSD | 238.80 | .20410 | 5.4221 | .83913 | .16798 | 128.07 | 6.1163 | .36614 | 11.905 | 39.525 |
| #1 | -.00004 | .17895 | -.00127 | .05663 | .09043 | .00000 | .00224 | 53.446 | .00059 | .00044 |
| #2 | .00015 | .17844 | -.00118 | .05730 | .09064 | .00004 | .00244 | 53.724 | .00070 | .00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00157** | **.35432** | **2.5564** | **.00274** | **19.398** | **.56999** | **.00100** | **167.58** | **.00108** |
| Stddev | .00002 | .00001 | .00445 | .0095 | .00128 | .007 | .00046 | .00001 | .72 | .00032 |
| %RSD | 7.2426 | .75747 | 1.2564 | .37082 | 46.788 | .03514 | .08071 | 1.2095 | .43030 | 29.847 |
| #1 | .00028 | .00158 | .35118 | 2.5631 | .00184 | 19.403 | .56967 | .00099 | 167.07 | .00085 |
| #2 | .00031 | .00157 | .35747 | 2.5497 | .00365 | 19.394 | .57032 | .00101 | 168.09 | .00130 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06447** | **-.00143** | **27.528** | **-.00389** | **.00328** | **5.6981** | **12.194** | **-.00129** | **1.2342** | **-.00044** |
| Stddev | .00069 | .00036 | .013 | .00182 | .00093 | .0756 | .162 | .00022 | .0021 | .00199 |
| %RSD | 1.0732 | 25.159 | .04659 | 46.880 | 28.347 | 1.3272 | 1.3272 | 16.805 | .16805 | 452.81 |
| #1 | .06496 | -.00168 | 27.518 | -.00518 | .00393 | 5.6447 | 12.080 | -.00144 | 1.2327 | -.00185 |
| #2 | .06398 | -.00117 | 27.537 | -.00260 | .00262 | 5.7516 | 12.308 | -.00114 | 1.2357 | .00097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00449** | **.00161** | **-.00750** | **.00115** | **.00431** | **.00540** |
| Stddev | .00056 | .00119 | .00174 | .00019 | .00001 | .00099 |
| %RSD | 12.535 | 74.068 | 23.174 | 16.491 | .33672 | 18.330 |
| #1 | .00489 | .00245 | -.00627 | .00128 | .00430 | .00470 |
| #2 | .00409 | .00077 | -.00873 | .00101 | .00432 | .00610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8911.7** | **110810.** | **9484.9** |
| Stddev | 7.5 | 472. | 25.2 |
| %RSD | .08400 | .42591 | .26604 |
| #1 | 8917.0 | 111150. | 9467.1 |
| #2 | 8906.4 | 110480. | 9502.7 |

Sample Name: 280-45456-c-5-a  Acquired: 8/16/2013 1:00:19  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.19909** | **.00224** | **.02610** | **.10228** | **.00001** | **.00152** | **77.334** | **.00048** | **.00056** |
| Stddev | .00056 | .00167 | .00124 | .00010 | .00041 | .00003 | .00097 | .237 | .00004 | .00007 |
| %RSD | 1111.3 | .84098 | 55.068 | .36446 | .39932 | 213.77 | 64.079 | .30676 | 8.7877 | 11.619 |
| #1 | .00044 | .19790 | .00137 | .02616 | .10199 | -.00001 | .00083 | 77.166 | .00045 | .00061 |
| #2 | -.00034 | .20027 | .00312 | .02603 | .10257 | .00003 | .00220 | 77.502 | .00051 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00089** | **.45299** | **3.9387** | **.00271** | **15.667** | **.28013** | **.00037** | **37.505** | **.00125** |
| Stddev | .00005 | .00051 | .00110 | .0171 | .00310 | .017 | .00028 | .00010 | .288 | .00050 |
| %RSD | 15.281 | 57.938 | .24382 | .43355 | 114.44 | .10953 | .10076 | 26.145 | .76872 | 40.203 |
| #1 | .00035 | .00125 | .45221 | 3.9267 | .00490 | 15.680 | .28033 | .00030 | 37.301 | .00090 |
| #2 | .00028 | .00052 | .45377 | 3.9508 | .00052 | 15.655 | .27993 | .00044 | 37.708 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07751** | **-.00151** | **17.506** | **-.00168** | **.00162** | **5.3337** | **11.414** | **-.00072** | **1.1260** | **-.00076** |
| Stddev | .00028 | .00069 | .035 | .00034 | .00125 | .0335 | .072 | .00004 | .0049 | .00224 |
| %RSD | .36314 | 45.338 | .20160 | 20.126 | 77.107 | .62782 | .62782 | 6.1061 | .43715 | 292.76 |
| #1 | .07731 | -.00103 | 17.531 | -.00192 | .00074 | 5.3100 | 11.363 | -.00076 | 1.1226 | .00082 |
| #2 | .07771 | -.00200 | 17.481 | -.00144 | .00250 | 5.3573 | 11.465 | -.00069 | 1.1295 | -.00235 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00575** | **.00070** | **-.01848** | **.00111** | **.00378** | **.00454** |
| Stddev | .00059 | .00176 | .01832 | .00044 | .00013 | .00107 |
| %RSD | 10.264 | 253.15 | 99.143 | 39.647 | 3.4072 | 23.502 |
| #1 | .00533 | .00194 | -.03143 | .00142 | .00387 | .00379 |
| #2 | .00617 | -.00055 | -.00552 | .00080 | .00369 | .00530 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8934.8** | **112950.** | **9572.4** |
| Stddev | 9.5 | 187. | 47.9 |
| %RSD | .10670 | .16523 | .50014 |
| #1 | 8941.5 | 113090. | 9538.6 |
| #2 | 8928.0 | 112820. | 9606.3 |

Sample Name: 280-45456-c-6-a  Acquired: 8/16/2013 1:02:36  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.35129** | **.00060** | **.01476** | **.04996** | **.00004** | **.00290** | **29.165** | **.00033** | **.00023** |
| Stddev | .00065 | .00035 | .00061 | .00001 | .00036 | .00008 | .00022 | .029 | .00003 | .00013 |
| %RSD | 749.43 | .09907 | 102.31 | .08081 | .71363 | 213.29 | 7.5154 | .10050 | 9.1909 | 54.907 |
| #1 | -.00055 | .35154 | .00103 | .01475 | .05021 | .00009 | .00305 | 29.144 | .00030 | .00014 |
| #2 | .00038 | .35104 | .00016 | .01477 | .04971 | -.00002 | .00274 | 29.185 | .00035 | .00033 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.00370** | **.50835** | **1.5969** | **.00379** | **6.9261** | **.03950** | **.00119** | **22.938** | **.00082** |
| Stddev | .00009 | .00021 | .00121 | .0672 | .00299 | .0089 | .00005 | .00015 | .104 | .00020 |
| %RSD | 28.727 | 5.6731 | .23794 | 4.2069 | 78.864 | .12923 | .12202 | 12.329 | .45212 | 23.813 |
| #1 | .00036 | .00385 | .50920 | 1.5494 | .00591 | 6.9198 | .03947 | .00129 | 23.011 | .00096 |
| #2 | .00024 | .00355 | .50749 | 1.6444 | .00168 | 6.9324 | .03953 | .00109 | 22.865 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02612** | **-.00015** | **8.8287** | **-.00352** | **.00049** | **4.8660** | **10.413** | **-.00129** | **.37442** | **.00051** |
| Stddev | .00056 | .00033 | .0361 | .00180 | .00090 | .0214 | .046 | .00036 | .00078 | .00085 |
| %RSD | 2.1248 | 221.42 | .40870 | 50.995 | 182.00 | .44066 | .44066 | 27.837 | .20825 | 168.39 |
| #1 | .02573 | -.00038 | 8.8032 | -.00479 | .00113 | 4.8811 | 10.446 | -.00104 | .37387 | .00111 |
| #2 | .02652 | .00008 | 8.8542 | -.00225 | -.00014 | 4.8508 | 10.381 | -.00155 | .37497 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00853** | **.00047** | **-.02198** | **.00087** | **.00422** | **.00440** |
| Stddev | .00035 | .00014 | .01637 | .00025 | .00023 | .00002 |
| %RSD | 4.1400 | 28.696 | 74.463 | 28.139 | 5.5455 | .54175 |
| #1 | .00828 | .00038 | -.01041 | .00070 | .00438 | .00438 |
| #2 | .00878 | .00057 | -.03356 | .00104 | .00405 | .00441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9206.3** | **115420.** | **9658.7** |
| Stddev | 9.2 | 177. | 4.9 |
| %RSD | .09941 | .15363 | .05028 |
| #1 | 9199.8 | 115550. | 9655.2 |
| #2 | 9212.8 | 115300. | 9662.1 |

Sample Name: 280-45456-c-7-a  Acquired: 8/16/2013 1:04:53  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.22933** | **.00255** | **.01327** | **.04591** | **-.00003** | **.00342** | **27.581** | **.00025** | **.00026** |
| Stddev | .00023 | .00094 | .00133 | .00014 | .00030 | .00002 | .00003 | .031 | .00008 | .00001 |
| %RSD | 134.68 | .41181 | 52.288 | 1.0209 | .65608 | 69.221 | .98967 | .11105 | 30.344 | 3.5892 |
| #1 | .00001 | .22866 | .00349 | .01317 | .04613 | -.00004 | .00340 | 27.602 | .00020 | .00025 |
| #2 | .00033 | .23000 | .00161 | .01336 | .04570 | -.00001 | .00344 | 27.559 | .00031 | .00027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.00104** | **.44037** | **1.5212** | **.00639** | **6.1365** | **.04559** | **.00129** | **20.343** | **.00070** |
| Stddev | .00004 | .00014 | .00219 | .0068 | .00150 | .0026 | .00013 | .00012 | .221 | .00017 |
| %RSD | 11.026 | 13.645 | .49834 | .44423 | 23.528 | .04222 | .27844 | 9.0685 | 1.0843 | 24.023 |
| #1 | .00034 | .00114 | .44192 | 1.5260 | .00745 | 6.1384 | .04550 | .00138 | 20.499 | .00058 |
| #2 | .00040 | .00094 | .43882 | 1.5164 | .00533 | 6.1347 | .04568 | .00121 | 20.187 | .00082 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02941** | **-.00067** | **7.3836** | **-.00174** | **.00377** | **5.0670** | **10.843** | **-.00173** | **.33395** | **-.00135** |
| Stddev | .00034 | .00074 | .0033 | .00115 | .00006 | .0306 | .065 | .00053 | .00066 | .00163 |
| %RSD | 1.1430 | 109.78 | .04516 | 66.409 | 1.6101 | .60384 | .60384 | 30.594 | .19864 | 120.73 |
| #1 | .02917 | -.00119 | 7.3860 | -.00092 | .00381 | 5.0886 | 10.890 | -.00210 | .33442 | -.00250 |
| #2 | .02964 | -.00015 | 7.3813 | -.00256 | .00373 | 5.0454 | 10.797 | -.00135 | .33348 | -.00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00557** | **.00117** | **.00906** | **.00046** | **.00313** | **.00370** |
| Stddev | .00011 | .00159 | .02370 | .00007 | .00001 | .00052 |
| %RSD | 2.0434 | 136.20 | 261.57 | 15.209 | .23408 | 13.962 |
| #1 | .00565 | .00004 | .02582 | .00041 | .00314 | .00406 |
| #2 | .00549 | .00230 | -.00770 | .00051 | .00313 | .00333 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9175.1** | **115900.** | **9623.7** |
| Stddev | 10.3 | 381. | 17.5 |
| %RSD | .11244 | .32888 | .18139 |
| #1 | 9167.8 | 116170. | 9611.4 |
| #2 | 9182.4 | 115630. | 9636.1 |

Sample Name: 280-45456-c-8-a  Acquired: 8/16/2013 1:07:10  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.37332** | **.00159** | **.01100** | **.04242** | **.00003** | **.00304** | **22.587** | **.00019** | **.00050** |
| Stddev | .00020 | .00061 | .00043 | .00021 | .00008 | .00000 | .00147 | .053 | .00017 | .00002 |
| %RSD | 113.49 | .16233 | 27.259 | 1.8751 | .18868 | 12.862 | 48.234 | .23652 | 92.284 | 3.2440 |
| #1 | .00032 | .37289 | .00129 | .01086 | .04248 | .00003 | .00200 | 22.549 | .00031 | .00049 |
| #2 | .00003 | .37375 | .00190 | .01115 | .04236 | .00004 | .00408 | 22.624 | .00007 | .00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00106** | **.69473** | **1.3589** | **.00050** | **4.4142** | **.10825** | **.00065** | **9.2740** | W **10.138** |
| Stddev | .00002 | .00012 | .00512 | .0402 | .00070 | .0066 | .00014 | .00028 | .0339 | .067 |
| %RSD | 4.1142 | 11.468 | .73741 | 2.9612 | 139.50 | .14941 | .13116 | 43.193 | .36546 | .66362 |
| #1 | .00046 | .00115 | .69111 | 1.3873 | .00001 | 4.4095 | .10815 | .00045 | 9.2501 | 10.090 |
| #2 | .00044 | .00098 | .69835 | 1.3304 | .00099 | 4.4188 | .10835 | .00084 | 9.2980 | 10.185 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00093** | **.04634** | **-.00103** | **4.2643** | **-.00153** | **.00290** | **5.0623** | **10.833** | **-.00127** | **.24710** |
| Stddev | .00008 | .00033 | .00007 | .0167 | .00039 | .00235 | .0231 | .050 | .00016 | .00018 |
| %RSD | 8.3841 | .71055 | 6.8948 | .39034 | 25.160 | 81.033 | .45693 | .45693 | 12.391 | .07299 |
| #1 | .00099 | .04611 | -.00098 | 4.2525 | -.00181 | .00124 | 5.0460 | 10.798 | -.00116 | .24697 |
| #2 | .00088 | .04657 | -.00108 | 4.2761 | -.00126 | .00456 | 5.0787 | 10.868 | -.00139 | .24722 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00798** | **.00132** | **-.03822** | **.00105** | **.00303** | **.00454** |
| Stddev | .00139 | .00006 | .00010 | .03618 | .00050 | .00017 | .00257 |
| %RSD | 863.37 | .70106 | 7.3209 | 94.674 | 48.061 | 5.6492 | 56.723 |
| #1 | .00114 | .00794 | .00125 | -.06380 | .00069 | .00291 | .00636 |
| #2 | -.00082 | .00802 | .00139 | -.01263 | .00140 | .00316 | .00272 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9266.5** | **115820.** | **9843.0** |
| Stddev | 24.5 | 175. | 26.8 |
| %RSD | .26424 | .15139 | .27186 |
| #1 | 9283.8 | 115950. | 9861.9 |
| #2 | 9249.1 | 115700. | 9824.1 |

Sample Name: 280-45456-c-9-a  Acquired: 8/16/2013 1:09:25  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **.59122** | **.00122** | **.00826** | **.03671** | **.00003** | **.00209** | **16.907** | **.00026** | **.00036** |
| Stddev | .00010 | .00005 | .00176 | .00004 | .00007 | .00003 | .00232 | .000 | .00010 | .00012 |
| %RSD | 332.52 | .00886 | 144.06 | .54456 | .18881 | 127.24 | 110.99 | .00160 | 37.379 | 32.827 |
| #1 | .00010 | .59126 | -.00002 | .00823 | .03666 | .00000 | .00372 | 16.906 | .00019 | .00045 |
| #2 | -.00004 | .59118 | .00247 | .00829 | .03676 | .00005 | .00045 | 16.907 | .00033 | .00028 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00060** | **.00146** | **.75116** | **1.1526** | **.00267** | **2.9062** | **.03772** | **.00073** | **4.9532** | **.00076** |
| Stddev | .00009 | .00035 | .00328 | .0199 | .00317 | .0013 | .00003 | .00008 | .0047 | .00017 |
| %RSD | 15.748 | 23.881 | .43648 | 1.7224 | 118.65 | .04396 | .08883 | 11.047 | .09458 | 21.784 |
| #1 | .00053 | .00171 | .75348 | 1.1386 | .00491 | 2.9053 | .03769 | .00078 | 4.9565 | .00088 |
| #2 | .00067 | .00122 | .74884 | 1.1666 | .00043 | 2.9071 | .03774 | .00067 | 4.9499 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03714** | **-.00044** | **3.2789** | **-.00227** | **.00009** | **5.3296** | **11.405** | **-.00122** | **.14736** | **.00039** |
| Stddev | .00066 | .00063 | .0012 | .00074 | .00188 | .0052 | .011 | .00055 | .00017 | .00151 |
| %RSD | 1.7779 | 144.85 | .03692 | 32.414 | 2022.8 | .09817 | .09817 | 45.357 | .11491 | 382.95 |
| #1 | .03667 | .00001 | 3.2781 | -.00279 | -.00124 | 5.3259 | 11.397 | -.00161 | .14724 | .00146 |
| #2 | .03760 | -.00088 | 3.2798 | -.00175 | .00142 | 5.3333 | 11.413 | -.00083 | .14748 | -.00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01640** | **.00143** | **-.01389** | **.00091** | **.00489** | **.00377** |
| Stddev | .00001 | .00048 | .00831 | .00065 | .00008 | .00179 |
| %RSD | .03916 | 33.481 | 59.857 | 71.183 | 1.5586 | 47.419 |
| #1 | .01640 | .00109 | -.00801 | .00045 | .00483 | .00503 |
| #2 | .01641 | .00177 | -.01976 | .00137 | .00494 | .00250 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9310.0** | **116600.** | **9766.2** |
| Stddev | 20.5 | 236. | 6.7 |
| %RSD | .22042 | .20233 | .06892 |
| #1 | 9324.5 | 116770. | 9770.9 |
| #2 | 9295.5 | 116430. | 9761.4 |

Sample Name: 280-45456-c-10-a  Acquired: 8/16/2013 1:11:41  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187263  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.27134** | **.00084** | **.00745** | **.03033** | **.00007** | **.00258** | **15.082** | **.00033** | **.00024** |
| Stddev | .00004 | .00027 | .00012 | .00033 | .00011 | .00002 | .00031 | .031 | .00022 | .00010 |
| %RSD | 120.02 | .10054 | 14.804 | 4.3798 | .36350 | 27.177 | 12.145 | .20245 | 67.759 | 42.217 |
| #1 | -.00001 | .27114 | .00075 | .00721 | .03041 | .00006 | .00280 | 15.061 | .00048 | .00017 |
| #2 | -.00006 | .27153 | .00093 | .00768 | .03025 | .00008 | .00236 | 15.104 | .00017 | .00031 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.00113** | **.37606** | **.95174** | **.00314** | **2.3972** | **.02195** | **.00070** | **4.1661** | **.00039** |
| Stddev | .00002 | .00003 | .00139 | .01227 | .00367 | .0086 | .00012 | .00019 | .0262 | .00038 |
| %RSD | 8.0341 | 2.3053 | .36871 | 1.2892 | 116.70 | .35697 | .54878 | 27.810 | .62995 | 96.953 |
| #1 | .00026 | .00111 | .37508 | .94307 | .00573 | 2.4033 | .02187 | .00056 | 4.1475 | .00066 |
| #2 | .00030 | .00115 | .37704 | .96042 | .00055 | 2.3912 | .02204 | .00084 | 4.1846 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02485** | **-.00205** | **2.4359** | **-.00412** | **.00224** | **4.8235** | **10.322** | **-.00079** | **.12346** | **.00118** |
| Stddev | .00016 | .00113 | .0013 | .00123 | .00431 | .0069 | .015 | .00001 | .00025 | .00175 |
| %RSD | .62699 | 55.346 | .05161 | 29.764 | 192.28 | .14367 | .14367 | 1.1674 | .20139 | 148.21 |
| #1 | .02496 | -.00125 | 2.4350 | -.00325 | -.00081 | 4.8284 | 10.333 | -.00079 | .12328 | -.00006 |
| #2 | .02474 | -.00285 | 2.4367 | -.00499 | .00529 | 4.8186 | 10.312 | -.00078 | .12363 | .00241 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00704** | **.00042** | **-.01074** | **.00050** | **.00258** | **.00448** |
| Stddev | .00011 | .00040 | .00678 | .00006 | .00008 | .00135 |
| %RSD | 1.5925 | 93.913 | 63.190 | 12.880 | 2.9841 | 30.196 |
| #1 | .00711 | .00014 | -.01553 | .00046 | .00252 | .00352 |
| #2 | .00696 | .00070 | -.00594 | .00055 | .00263 | .00543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9310.8** | **116900.** | **9564.9** |
| Stddev | 28.0 | 80. | 23.2 |
| %RSD | .30048 | .06817 | .24239 |
| #1 | 9330.6 | 116950. | 9548.5 |
| #2 | 9291.0 | 116840. | 9581.3 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 1:13:57 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00092** | **49.975** | **.00166** | **.00364** | **.00035** | **.00000** | W **1.0501** | **-.00622** | **.00019** | **.00007** | **.00001** | **.00360** |
| Stddev | .00036 | .223 | .00009 | .00053 | .00025 | .00000 | .0101 | .00484 | .00014 | .00016 | .00008 | .00043 |
| %RSD | 38.484 | .44686 | 5.7103 | 14.645 | 69.815 | 441.84 | .96646 | 77.748 | 73.302 | 215.19 | 944.40 | 11.801 |
| #1 | .00117 | 49.817 | .00159 | .00401 | .00018 | .00000 | 1.0429 | -.00280 | .00009 | .00018 | -.00005 | .00390 |
| #2 | .00067 | 50.133 | .00173 | .00326 | .00053 | .00000 | 1.0573 | -.00964 | .00028 | -.00004 | .00007 | .00330 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.848** | **.13489** | **.00169** | **-.00189** | **.00003** | **-.00011** | **256.36** | **.00064** | **.00330** | **.00061** | **5.1386** | **-.00217** |
| Stddev | .196 | .02070 | .00027 | .00309 | .00001 | .00031 | 1.11 | .00005 | .00151 | .00046 | .0237 | .00029 |
| %RSD | .39288 | 15.348 | 16.132 | 163.63 | 33.816 | 274.62 | .43345 | 7.6922 | 45.888 | 76.354 | .46075 | 13.180 |
| #1 | 49.709 | .14953 | .00149 | .00030 | .00002 | -.00034 | 255.57 | .00060 | .00436 | .00028 | 5.1218 | -.00197 |
| #2 | 49.986 | .12025 | .00188 | -.00407 | .00003 | .00011 | 257.14 | .00067 | .00223 | .00093 | 5.1553 | -.00237 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00203** | **-.00635** | **-.01360** | **-.00070** | **.00028** | **4.8108** | **-.00010** | **.00087** | **10.291** | **.00091** | **.00058** | **.03744** |
| Stddev | .00504 | .00006 | .00013 | .00046 | .00010 | .0191 | .00030 | .00133 | .090 | .00045 | .00026 | .00272 |
| %RSD | 248.16 | .92357 | .92357 | 65.670 | 35.123 | .39678 | 296.17 | 153.46 | .87691 | 48.968 | 45.331 | 7.2593 |
| #1 | -.00559 | -.00631 | -.01351 | -.00038 | .00035 | 4.7973 | -.00031 | -.00007 | 10.227 | .00060 | .00076 | .03936 |
| #2 | .00153 | -.00640 | -.01369 | -.00103 | .00021 | 4.8243 | .00011 | .00180 | 10.355 | .00123 | .00039 | .03551 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8948.4** | **110590.** | **9473.7** |
| Stddev | 28.9 | 139. | 4.3 |
| %RSD | .32320 | .12603 | .04530 |
| #1 | 8928.0 | 110690. | 9476.7 |
| #2 | 8968.9 | 110490. | 9470.7 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 1:16:17 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49710** | **.50452** | **1.0138** | **.52205** | **.51447** | **.50041** | **.00421** | **5.0500** | **.51478** | **.50830** | **.50480** | **.50317** | **2.5567** |
| Stddev | .00088 | .00134 | .0017 | .00083 | .00131 | .00106 | .00153 | .0072 | .00116 | .00114 | .00002 | .00017 | .0120 |
| %RSD | .17756 | .26559 | .17038 | .15880 | .25551 | .21268 | 36.323 | .14159 | .22467 | .22428 | .00388 | .03343 | .46887 |
| #1 | .49773 | .50358 | 1.0150 | .52146 | .51354 | .49966 | .00530 | 5.0450 | .51396 | .50749 | .50482 | .50305 | 2.5483 |
| #2 | .49648 | .50547 | 1.0125 | .52264 | .51540 | .50117 | .00313 | 5.0551 | .51560 | .50911 | .50479 | .50329 | 2.5652 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.307** | **.97206** | **19.175** | **.48873** | **.50961** | **5.2458** | **.51015** | **1.0272** | **1.0227** | **.01883** | **1.0264** | **1.0241** | **4.9795** |
| Stddev | .178 | .00455 | .019 | .00020 | .00039 | .0174 | .00022 | .0011 | .0000 | .00298 | .0007 | .0039 | .0723 |
| %RSD | .35410 | .46842 | .10023 | .04088 | .07568 | .33065 | .04279 | .10876 | .00278 | 15.850 | .07162 | .38055 | 1.4518 |
| #1 | 50.181 | .96884 | 19.188 | .48888 | .50988 | 5.2335 | .50999 | 1.0264 | 1.0228 | .01672 | 1.0259 | 1.0213 | 4.9283 |
| #2 | 50.433 | .97528 | 19.161 | .48859 | .50934 | 5.2580 | .51030 | 1.0280 | 1.0227 | .02094 | 1.0269 | 1.0268 | 5.0306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.656** | **1.0176** | **.50509** | **-.00543** | **.49180** | **1.0332** | **-.01966** | **.49842** | **.48397** | **.50639** |
| Stddev | .155 | .0008 | .00101 | .00137 | .00089 | .0022 | .01645 | .00006 | .00271 | .00179 |
| %RSD | 1.4518 | .08327 | .19987 | 25.154 | .18133 | .21420 | 83.705 | .01167 | .55929 | .35330 |
| #1 | 10.547 | 1.0182 | .50437 | -.00640 | .49243 | 1.0317 | -.00802 | .49838 | .48588 | .50512 |
| #2 | 10.765 | 1.0170 | .50580 | -.00447 | .49117 | 1.0348 | -.03129 | .49846 | .48206 | .50765 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9174.5** | **114200.** | **9569.4** |
| Stddev | 10.0 | 221. | 36.8 |
| %RSD | .10894 | .19328 | .38429 |
| #1 | 9167.4 | 114050. | 9595.4 |
| #2 | 9181.6 | 114360. | 9543.4 |

Sample Name: CCB  Acquired: 8/16/2013 1:18:23  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00058** | **.00186** | **.00259** | **.00291** | **-.00019** | **.00004** | **.00488** | **-.00268** | **.00012** | **.00013** | **-.00004** | **-.00006** |
| Stddev | .00009 | .00000 | .00126 | .00002 | .00012 | .00004 | .00125 | .00348 | .00021 | .00006 | .00007 | .00004 |
| %RSD | 15.808 | .19853 | 48.488 | .60516 | 64.311 | 95.396 | 25.685 | 129.72 | 173.39 | 45.839 | 178.22 | 59.375 |
| #1 | -.00051 | .00186 | .00170 | .00292 | -.00027 | .00006 | .00576 | -.00514 | -.00003 | .00018 | -.00008 | -.00003 |
| #2 | -.00064 | .00186 | .00348 | .00289 | -.00010 | .00001 | .00399 | -.00022 | .00027 | .00009 | .00001 | -.00008 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.11494** | **-.00113** | **.00208** | **.00007** | **.00068** | W **.18035** | **.00008** | **.00130** | **-.00194** | **.01759** | W **.00409** |
| Stddev | .00105 | .00376 | .00435 | .00097 | .00005 | .00021 | .00522 | .00024 | .00161 | .00037 | .00095 | .00211 |
| %RSD | 8326.6 | 3.2703 | 386.25 | 46.499 | 72.698 | 30.222 | 2.8920 | 304.48 | 123.12 | 18.781 | 5.4089 | 51.633 |
| #1 | -.00076 | .11759 | .00195 | .00140 | .00003 | .00053 | .18404 | .00024 | .00017 | -.00169 | .01691 | .00260 |
| #2 | .00073 | .11228 | -.00421 | .00277 | .00011 | .00082 | .17666 | -.00009 | .00244 | -.00220 | .01826 | .00558 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00166** | **.00669** | **.01431** | **-.00053** | **.00000** | **-.00101** | **.00051** | **.00041** | **.02525** | **-.00066** | **.00111** | W **.00453** |
| Stddev | .00123 | .00284 | .00608 | .00070 | .00008 | .00102 | .00030 | .00102 | .02011 | .00010 | .00002 | .00041 |
| %RSD | 73.946 | 42.482 | 42.482 | 130.70 | 2886.5 | 101.16 | 59.002 | 248.25 | 79.650 | 14.970 | 1.3806 | 8.9496 |
| #1 | .00079 | .00869 | .01860 | -.00103 | -.00005 | -.00029 | .00029 | .00113 | .01103 | -.00059 | .00109 | .00424 |
| #2 | .00253 | .00468 | .01001 | -.00004 | .00006 | -.00173 | .00072 | -.00031 | .03947 | -.00074 | .00112 | .00481 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9169.6** | **115540.** | **9465.2** |
| Stddev | 24.8 | 130. | 7.6 |
| %RSD | .27003 | .11283 | .08018 |
| #1 | 9187.1 | 115450. | 9459.8 |
| #2 | 9152.1 | 115630. | 9470.6 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 1:20:36 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01052** | **.10878** | **.01529** | **.10549** | **.01048** | **.00108** | **.12449** | **.20675** | **.00537** | **.01088** | **.01037** | **.01526** | **.10208** |
| Stddev | .00019 | .00017 | .00078 | .00052 | .00016 | .00004 | .00423 | .00210 | .00010 | .00007 | .00004 | .00051 | .00067 |
| %RSD | 1.8063 | .15520 | 5.1224 | .49532 | 1.5363 | 3.5688 | 3.3976 | 1.0140 | 1.7982 | .63878 | .35427 | 3.3254 | .65899 |
| #1 | .01066 | .10890 | .01474 | .10586 | .01060 | .00105 | .12748 | .20527 | .00530 | .01093 | .01034 | .01490 | .10160 |
| #2 | .01039 | .10866 | .01584 | .10512 | .01037 | .00111 | .12150 | .20823 | .00543 | .01083 | .01040 | .01562 | .10255 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1935** | **.00996** | **.20727** | **.01025** | **.01996** | **1.2244** | **.04365** | **3.0518** | **.00894** | **.01458** | F **.00614** | **.01727** | **.50511** |
| Stddev | .0223 | .00171 | .00117 | .00000 | .00028 | .0088 | .00018 | .0083 | .00024 | .00286 | .00099 | .00242 | .00340 |
| %RSD | .69701 | 17.197 | .56585 | .00629 | 1.3860 | .72126 | .41554 | .27311 | 2.7108 | 19.617 | 16.176 | 14.004 | .67367 |
| #1 | 3.1777 | .00875 | .20810 | .01025 | .02015 | 1.2182 | .04378 | 3.0577 | .00911 | .01256 | .00684 | .01556 | .50271 |
| #2 | 3.2092 | .01117 | .20644 | .01025 | .01976 | 1.2307 | .04352 | 3.0459 | .00877 | .01660 | .00544 | .01898 | .50752 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0809** | **.10330** | **.01034** | **.01412** | **.00991** | **.01706** | F **.03215** | **.00935** | **.02095** | F **.01974** |
| Stddev | .0073 | .00009 | .00006 | .00090 | .00051 | .00012 | .00812 | .00032 | .00005 | .00004 |
| %RSD | .67367 | .09171 | .55915 | 6.3619 | 5.1116 | .71133 | 25.273 | 3.4449 | .21838 | .21313 |
| #1 | 1.0758 | .10336 | .01038 | .01475 | .01027 | .01715 | .03789 | .00912 | .02092 | .01971 |
| #2 | 1.0861 | .10323 | .01029 | .01348 | .00956 | .01698 | .02640 | .00958 | .02098 | .01977 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | .06000 | | | .01500 |
| Range | | | | | | | -30.000% | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9335.5** | **116770.** | **9591.5** |
| Stddev | 12.8 | 405. | 69.9 |
| %RSD | .13744 | .34718 | .72908 |
| #1 | 9344.5 | 117060. | 9641.0 |
| #2 | 9326.4 | 116480. | 9542.1 |

Sample Name: mb 280-187275/1-a  Acquired: 8/16/2013 1:22:52  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **.00234** | **.00148** | **.00212** | **-.00044** | **.00001** | **.00435** | **.00183** | **.00025** | **-.00003** |
| Stddev | .00025 | .00000 | .00040 | .00022 | .00022 | .00003 | .00081 | .00218 | .00022 | .00026 |
| %RSD | 2001.3 | .06876 | 26.907 | 10.264 | 50.143 | 654.04 | 18.657 | 119.07 | 87.116 | 903.28 |
| #1 | -.00019 | .00233 | .00176 | .00197 | -.00028 | .00003 | .00378 | .00029 | .00010 | .00015 |
| #2 | .00017 | .00234 | .00120 | .00228 | -.00060 | -.00002 | .00492 | .00337 | .00041 | -.00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00010** | **-.00033** | **.00203** | **.04655** | **-.00336** | **.00477** | **.00010** | **-.00009** | **.16354** | **.00025** |
| Stddev | .00005 | .00017 | .00093 | .01055 | .00064 | .00094 | .00003 | .00008 | .00238 | .00027 |
| %RSD | 48.751 | 52.688 | 46.004 | 22.672 | 19.090 | 19.712 | 32.941 | 89.910 | 1.4552 | 105.90 |
| #1 | -.00007 | -.00020 | .00137 | .05401 | -.00382 | .00544 | .00012 | -.00003 | .16186 | .00006 |
| #2 | -.00014 | -.00045 | .00269 | .03909 | -.00291 | .00411 | .00007 | -.00014 | .16523 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00072** | **-.00064** | **.01732** | **-.00129** | **.00141** | **.00059** | **.00126** | **-.00115** | **.00003** | **.00130** |
| Stddev | .00177 | .00020 | .00127 | .00235 | .00185 | .00840 | .01797 | .00010 | .00009 | .00083 |
| %RSD | 247.31 | 30.548 | 7.3104 | 183.01 | 131.45 | 1426.0 | 1426.0 | 9.0527 | 370.20 | 63.874 |
| #1 | .00197 | -.00050 | .01642 | .00038 | .00272 | -.00535 | -.01144 | -.00123 | -.00004 | .00071 |
| #2 | -.00054 | -.00078 | .01821 | -.00295 | .00010 | .00653 | .01396 | -.00108 | .00009 | .00189 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00063** | **.00064** | **-.01270** | **-.00059** | **.00485** | **.00210** |
| Stddev | .00023 | .00027 | .01445 | .00045 | .00003 | .00014 |
| %RSD | 36.137 | 43.000 | 113.84 | 76.113 | .58469 | 6.6893 |
| #1 | .00047 | .00083 | -.00248 | -.00090 | .00483 | .00220 |
| #2 | .00080 | .00044 | -.02292 | -.00027 | .00487 | .00200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9256.1** | **116260.** | **9480.6** |
| Stddev | 4.9 | 422. | 3.4 |
| %RSD | .05300 | .36296 | .03589 |
| #1 | 9259.6 | 115970. | 9478.2 |
| #2 | 9252.7 | 116560. | 9483.1 |

Sample Name: lcs 280-187275/2-a  Acquired: 8/16/2013 1:25:07  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04925** | **1.9186** | **1.0374** | **1.0389** | **2.0848** | **.05033** | **2.1750** | **50.278** | **.10874** | **.49850** |
| Stddev | .00009 | .0024 | .0040 | .0002 | .0026 | .00004 | .0063 | .001 | .00010 | .00024 |
| %RSD | .18764 | .12544 | .38126 | .01608 | .12619 | .08789 | .28935 | .00218 | .08776 | .04796 |
| #1 | .04932 | 1.9169 | 1.0346 | 1.0391 | 2.0830 | .05036 | 2.1794 | 50.279 | .10881 | .49833 |
| #2 | .04919 | 1.9203 | 1.0402 | 1.0388 | 2.0867 | .05030 | 2.1705 | 50.277 | .10867 | .49866 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20353** | **.25654** | **1.0268** | **50.932** | **.97405** | **48.384** | **.48931** | **1.0335** | **52.797** | **.50163** |
| Stddev | .00047 | .00029 | .0028 | .062 | .00153 | .061 | .00004 | .0003 | .270 | .00056 |
| %RSD | .23129 | .11368 | .27125 | .12209 | .15727 | .12697 | .00791 | .03307 | .51100 | .11141 |
| #1 | .20387 | .25675 | 1.0288 | 50.888 | .97514 | 48.427 | .48929 | 1.0338 | 52.607 | .50202 |
| #2 | .20320 | .25634 | 1.0249 | 50.975 | .97297 | 48.340 | .48934 | 1.0333 | 52.988 | .50123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.500** | **.50462** | **.00313** | **.50109** | **2.0445** | **10.090** | **21.593** | **2.0384** | **1.0182** | **.96423** |
| Stddev | .006 | .00118 | .00334 | .00275 | .0085 | .011 | .024 | .0069 | .0013 | .00257 |
| %RSD | .06108 | .23357 | 106.92 | .54819 | .41465 | .11303 | .11303 | .34008 | .13025 | .26687 |
| #1 | 10.495 | .50379 | .00076 | .50303 | 2.0505 | 10.098 | 21.611 | 2.0434 | 1.0173 | .96242 |
| #2 | 10.504 | .50545 | .00549 | .49915 | 2.0385 | 10.082 | 21.576 | 2.0335 | 1.0192 | .96605 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0035** | **1.9853** | **2.1907** | **.51036** | **.48067** | **.51710** |
| Stddev | .0006 | .0063 | .0138 | .00106 | .00057 | .00219 |
| %RSD | .06515 | .31967 | .62770 | .20683 | .11925 | .42375 |
| #1 | 1.0040 | 1.9898 | 2.1810 | .51111 | .48108 | .51865 |
| #2 | 1.0031 | 1.9808 | 2.2004 | .50962 | .48027 | .51555 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8924.6** | **111020.** | **9472.3** |
| Stddev | 8.0 | 252. | 30.4 |
| %RSD | .08931 | .22726 | .32067 |
| #1 | 8919.0 | 110840. | 9493.8 |
| #2 | 8930.3 | 111200. | 9450.8 |

Sample Name: 280-45432-e-1-c  Acquired: 8/16/2013 1:27:14  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.01203** | **.00037** | **.00501** | **.01332** | **.00004** | **.00356** | **5.7294** | **.00019** | **.00009** |
| Stddev | .00056 | .00002 | .00175 | .00000 | .00006 | .00003 | .00114 | .0107 | .00006 | .00011 |
| %RSD | 149.96 | .15197 | 469.21 | .03105 | .43266 | 76.661 | 31.948 | .18598 | 30.898 | 132.42 |
| #1 | .00077 | .01205 | .00161 | .00501 | .01336 | .00002 | .00276 | 5.7219 | .00024 | .00017 |
| #2 | -.00002 | .01202 | -.00086 | .00501 | .01328 | .00007 | .00436 | 5.7370 | .00015 | .00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00077** | **.02946** | **.70597** | **.00109** | **1.3644** | **.00185** | **.00195** | **1.9893** | **.00081** |
| Stddev | .00009 | .00004 | .00052 | .01549 | .00121 | .0012 | .00010 | .00019 | .0062 | .00038 |
| %RSD | 165.30 | 5.8214 | 1.7815 | 2.1942 | 111.16 | .08696 | 5.2845 | 9.9720 | .30999 | 46.641 |
| #1 | .00012 | .00073 | .02909 | .69502 | .00023 | 1.3652 | .00178 | .00181 | 1.9937 | .00054 |
| #2 | -.00001 | .00080 | .02983 | .71692 | .00194 | 1.3636 | .00192 | .00209 | 1.9850 | .00107 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00843** | **-.00110** | **1.2229** | **-.00298** | **.00111** | **2.7488** | **5.8824** | **-.00083** | **.03272** | **.00120** |
| Stddev | .00127 | .00034 | .0015 | .00034 | .00312 | .0064 | .0137 | .00077 | .00018 | .00017 |
| %RSD | 15.059 | 30.686 | .12159 | 11.346 | 281.39 | .23299 | .23299 | 92.668 | .56133 | 14.350 |
| #1 | .00753 | -.00086 | 1.2219 | -.00322 | -.00110 | 2.7442 | 5.8727 | -.00138 | .03259 | .00108 |
| #2 | .00933 | -.00134 | 1.2240 | -.00274 | .00332 | 2.7533 | 5.8921 | -.00029 | .03285 | .00132 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00081** | **.03966** | **-.00053** | **.00329** | **.00511** |
| Stddev | .00020 | .00038 | .03753 | .00031 | .00004 | .00069 |
| %RSD | 38.028 | 46.998 | 94.608 | 58.880 | 1.3292 | 13.567 |
| #1 | .00065 | .00054 | .01313 | -.00031 | .00332 | .00560 |
| #2 | .00038 | .00108 | .06620 | -.00075 | .00326 | .00462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9412.1** | **118750.** | **9684.5** |
| Stddev | 5.8 | 37. | 101.2 |
| %RSD | .06122 | .03076 | 1.0445 |
| #1 | 9416.1 | 118720. | 9613.0 |
| #2 | 9408.0 | 118780. | 9756.1 |

Sample Name: 280-45432-e-2-c  Acquired: 8/16/2013 1:29:32  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.01158** | **-.00182** | **.00381** | **.01387** | **.00006** | **.00283** | **4.7118** | **.00006** | **.00025** |
| Stddev | .00079 | .00013 | .00166 | .00095 | .00024 | .00001 | .00099 | .0041 | .00013 | .00011 |
| %RSD | 221.53 | 1.1200 | 91.280 | 25.070 | 1.7288 | 10.340 | 34.997 | .08704 | 233.04 | 45.418 |
| #1 | -.00020 | .01148 | -.00065 | .00313 | .01370 | .00006 | .00354 | 4.7089 | .00015 | .00017 |
| #2 | .00091 | .01167 | -.00300 | .00448 | .01404 | .00007 | .00213 | 4.7147 | -.00004 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00009** | **.00040** | **.01069** | **.40110** | **.00017** | **1.8285** | **.00089** | **.00043** | **1.0022** | **.00010** |
| Stddev | .00011 | .00002 | .00147 | .00887 | .00196 | .0018 | .00002 | .00013 | .0174 | .00038 |
| %RSD | 121.76 | 5.4741 | 13.708 | 2.2116 | 1142.9 | .09657 | 2.4178 | 29.708 | 1.7345 | 372.57 |
| #1 | .00017 | .00041 | .00965 | .40737 | -.00121 | 1.8298 | .00088 | .00034 | .98990 | -.00017 |
| #2 | .00001 | .00038 | .01172 | .39483 | .00155 | 1.8273 | .00091 | .00052 | 1.0145 | .00037 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00239** | **-.00161** | **2.1899** | **-.00380** | **.00026** | **1.3953** | **2.9859** | **-.00142** | **.03087** | **.00102** |
| Stddev | .00007 | .00058 | .0023 | .00116 | .00085 | .0044 | .0094 | .00012 | .00017 | .00097 |
| %RSD | 3.0510 | 35.675 | .10527 | 30.392 | 330.35 | .31440 | .31440 | 8.5029 | .54600 | 95.155 |
| #1 | .00234 | -.00121 | 2.1883 | -.00299 | .00086 | 1.3984 | 2.9926 | -.00150 | .03075 | .00033 |
| #2 | .00244 | -.00202 | 2.1916 | -.00462 | -.00034 | 1.3922 | 2.9793 | -.00133 | .03099 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **.00056** | **-.01444** | **-.00039** | **.00323** | **.00311** |
| Stddev | .00004 | .00066 | .05115 | .00020 | .00010 | .00024 |
| %RSD | 5.0994 | 117.83 | 354.35 | 51.969 | 3.0217 | 7.5636 |
| #1 | .00067 | .00102 | .02174 | -.00025 | .00316 | .00328 |
| #2 | .00072 | .00009 | -.05061 | -.00053 | .00330 | .00294 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9374.6** | **118150.** | **9766.9** |
| Stddev | 52.1 | 144. | 5.5 |
| %RSD | .55540 | .12192 | .05615 |
| #1 | 9337.8 | 118040. | 9770.7 |
| #2 | 9411.4 | 118250. | 9763.0 |

Sample Name: 280-45432-e-3-c  Acquired: 8/16/2013 1:31:51  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.01011** | **.00173** | **.00358** | **.01248** | **-.00005** | **.00359** | **5.5746** | **.00016** | **.00014** |
| Stddev | .00027 | .00001 | .00086 | .00060 | .00025 | .00006 | .00024 | .0034 | .00010 | .00001 |
| %RSD | 54.934 | .06588 | 49.556 | 16.620 | 1.9702 | 112.37 | 6.7183 | .06010 | 60.512 | 5.5558 |
| #1 | .00030 | .01011 | .00233 | .00316 | .01231 | -.00001 | .00342 | 5.5723 | .00009 | .00014 |
| #2 | .00067 | .01012 | .00112 | .00400 | .01266 | -.00010 | .00376 | 5.5770 | .00023 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00006** | **.00058** | **.02070** | **.63461** | **.00171** | **1.2246** | **.00144** | **.00079** | **1.9652** | **.00039** |
| Stddev | .00007 | .00024 | .00035 | .00236 | .00045 | .0013 | .00003 | .00007 | .0140 | .00023 |
| %RSD | 127.62 | 40.894 | 1.6831 | .37230 | 26.291 | .10509 | 1.9324 | 9.1406 | .71457 | 58.298 |
| #1 | .00011 | .00041 | .02045 | .63628 | .00203 | 1.2237 | .00146 | .00084 | 1.9553 | .00023 |
| #2 | .00001 | .00075 | .02094 | .63294 | .00139 | 1.2255 | .00142 | .00074 | 1.9751 | .00055 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00762** | **-.00157** | **1.0040** | **-.00302** | **.00401** | **2.8010** | **5.9940** | **-.00104** | **.03068** | **.00005** |
| Stddev | .00157 | .00045 | .0017 | .00077 | .00038 | .0104 | .0223 | .00028 | .00014 | .00017 |
| %RSD | 20.552 | 28.951 | .16547 | 25.419 | 9.3539 | .37185 | .37185 | 26.916 | .47247 | 364.46 |
| #1 | .00651 | -.00125 | 1.0028 | -.00357 | .00428 | 2.7936 | 5.9783 | -.00084 | .03078 | -.00007 |
| #2 | .00872 | -.00189 | 1.0052 | -.00248 | .00375 | 2.8083 | 6.0098 | -.00124 | .03058 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **.00081** | **-.02855** | **-.00120** | **.00284** | **.00338** |
| Stddev | .00010 | .00014 | .00032 | .00026 | .00006 | .00006 |
| %RSD | 22.354 | 16.965 | 1.1284 | 21.965 | 2.1562 | 1.8149 |
| #1 | .00040 | .00071 | -.02832 | -.00101 | .00289 | .00334 |
| #2 | .00054 | .00091 | -.02877 | -.00138 | .00280 | .00342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9406.0** | **118760.** | **9738.7** |
| Stddev | 12.0 | 309. | 45.5 |
| %RSD | .12750 | .25982 | .46755 |
| #1 | 9397.5 | 118980. | 9706.5 |
| #2 | 9414.5 | 118540. | 9770.9 |

Sample Name: 280-45432-e-4-c  Acquired: 8/16/2013 1:34:10  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00037** | **.06997** | **-.00017** | **.00891** | **.03596** | **.00001** | **.00131** | **20.215** | **.00043** | **.00001** |
| Stddev | .00036 | .00012 | .00051 | .00022 | .00042 | .00002 | .00475 | .036 | .00003 | .00025 |
| %RSD | 98.025 | .17788 | 293.04 | 2.4306 | 1.1613 | 149.21 | 362.94 | .17927 | 6.7057 | 1713.7 |
| #1 | .00063 | .07006 | .00019 | .00876 | .03625 | .00000 | -.00205 | 20.241 | .00045 | .00019 |
| #2 | .00011 | .06988 | -.00053 | .00906 | .03566 | .00002 | .00467 | 20.190 | .00041 | -.00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.00139** | **.10098** | **1.5391** | **.00607** | **6.0876** | **.01115** | **.00706** | **7.8836** | **.00012** |
| Stddev | .00025 | .00010 | .00110 | .0033 | .00039 | .0036 | .00008 | .00003 | .0115 | .00003 |
| %RSD | 107.55 | 7.5245 | 1.0881 | .21294 | 6.4772 | .05957 | .73647 | .43161 | .14579 | 24.619 |
| #1 | .00041 | .00132 | .10175 | 1.5367 | .00634 | 6.0902 | .01121 | .00708 | 7.8917 | .00014 |
| #2 | .00006 | .00146 | .10020 | 1.5414 | .00579 | 6.0850 | .01110 | .00704 | 7.8755 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01097** | **.00079** | **4.3848** | **-.00094** | **-.00330** | **4.5720** | **9.7841** | **-.00119** | **.40187** | **.00121** |
| Stddev | .00056 | .00010 | .0027 | .00004 | .00061 | .0118 | .0252 | .00001 | .00082 | .00068 |
| %RSD | 5.0876 | 12.638 | .06246 | 3.9432 | 18.475 | .25751 | .25751 | .89147 | .20478 | 56.382 |
| #1 | .01136 | .00086 | 4.3868 | -.00097 | -.00373 | 4.5803 | 9.8019 | -.00119 | .40245 | .00169 |
| #2 | .01057 | .00072 | 4.3829 | -.00092 | -.00287 | 4.5637 | 9.7663 | -.00118 | .40129 | .00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00290** | **.00107** | **.11883** | **-.00006** | **.01046** | **.00499** |
| Stddev | .00033 | .00008 | .02133 | .00020 | .00000 | .00230 |
| %RSD | 11.478 | 7.5513 | 17.951 | 343.47 | .02084 | 45.993 |
| #1 | .00267 | .00102 | .10375 | .00008 | .01046 | .00337 |
| #2 | .00314 | .00113 | .13391 | -.00020 | .01046 | .00661 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9294.1** | **117110.** | **9689.9** |
| Stddev | 9.1 | 255. | 28.2 |
| %RSD | .09754 | .21798 | .29071 |
| #1 | 9300.5 | 117290. | 9709.8 |
| #2 | 9287.7 | 116930. | 9669.9 |

Sample Name: 280-45432-e-5-c  Acquired: 8/16/2013 1:36:28  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00058** | **.06582** | **.00008** | **.00926** | **.03985** | **.00004** | **.00536** | **21.686** | **.00038** | **.00016** |
| Stddev | .00039 | .00043 | .00123 | .00015 | .00000 | .00007 | .00099 | .124 | .00015 | .00007 |
| %RSD | 66.287 | .65052 | 1476.5 | 1.6122 | .00440 | 171.27 | 18.539 | .57234 | 38.729 | 46.560 |
| #1 | .00086 | .06552 | .00096 | .00936 | .03985 | .00009 | .00466 | 21.598 | .00048 | .00011 |
| #2 | .00031 | .06612 | -.00079 | .00915 | .03985 | -.00001 | .00607 | 21.774 | .00027 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00232** | **.11617** | **2.5252** | **.00603** | **6.5941** | **.01016** | **.00798** | **8.7424** | **.00233** |
| Stddev | .00003 | .00027 | .00113 | .0199 | .00244 | .0113 | .00014 | .00035 | .0522 | .00006 |
| %RSD | 10.451 | 11.511 | .97459 | .78783 | 40.425 | .17147 | 1.4139 | 4.4241 | .59697 | 2.3789 |
| #1 | .00030 | .00213 | .11537 | 2.5392 | .00775 | 6.6021 | .01006 | .00823 | 8.7055 | .00237 |
| #2 | .00035 | .00251 | .11697 | 2.5111 | .00430 | 6.5861 | .01026 | .00773 | 8.7793 | .00230 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02958** | **.00203** | **4.7760** | **-.00314** | **.00120** | **4.8890** | **10.462** | **-.00037** | **.44281** | **-.00035** |
| Stddev | .00003 | .00008 | .0127 | .00299 | .00028 | .0097 | .021 | .00036 | .00272 | .00141 |
| %RSD | .09973 | 3.9270 | .26494 | 95.009 | 23.531 | .19753 | .19753 | 98.477 | .61505 | 406.96 |
| #1 | .02960 | .00209 | 4.7671 | -.00526 | .00140 | 4.8822 | 10.448 | -.00011 | .44089 | .00065 |
| #2 | .02956 | .00198 | 4.7850 | -.00103 | .00100 | 4.8958 | 10.477 | -.00063 | .44474 | -.00134 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00303** | **.00096** | **.13187** | **.00068** | **.01431** | **.00430** |
| Stddev | .00005 | .00009 | .00273 | .00002 | .00002 | .00067 |
| %RSD | 1.5914 | 8.9691 | 2.0710 | 3.2127 | .16817 | 15.655 |
| #1 | .00307 | .00090 | .12994 | .00066 | .01433 | .00382 |
| #2 | .00300 | .00103 | .13380 | .00069 | .01429 | .00477 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9277.0** | **116980.** | **9694.6** |
| Stddev | 6.2 | 140. | 38.3 |
| %RSD | .06686 | .11962 | .39554 |
| #1 | 9281.4 | 117080. | 9667.5 |
| #2 | 9272.6 | 116880. | 9721.8 |

Sample Name: 280-45432-e-6-c  Acquired: 8/16/2013 1:38:45  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00771** | **.00109** | **.00549** | **.03301** | **.00000** | **.00584** | **6.1874** | **.00021** | **.00005** |
| Stddev | .00055 | .00026 | .00116 | .00013 | .00017 | .0000 | .00290 | .0147 | .00018 | .00010 |
| %RSD | 165.61 | 3.4092 | 106.51 | 2.3751 | .50701 | 2766.5 | 49.640 | .23712 | 85.540 | 220.18 |
| #1 | .00073 | .00752 | .00027 | .00558 | .03289 | .00001 | .00379 | 6.1978 | .00008 | .00012 |
| #2 | -.00006 | .00789 | .00192 | .00540 | .03313 | -.00001 | .00788 | 6.1770 | .00033 | -.00003 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00011** | **.00112** | **.07502** | **.99582** | **.00432** | **2.4351** | **.01051** | **.00060** | **6.3026** | **.00086** |
| Stddev | .00001 | .00018 | .00031 | .00233 | .00034 | .0065 | .00003 | .00017 | .0015 | .00003 |
| %RSD | 8.8575 | 15.991 | .40806 | .23374 | 7.8282 | .26479 | .28083 | 27.439 | .02318 | 3.4103 |
| #1 | .00012 | .00099 | .07524 | .99418 | .00408 | 2.4397 | .01053 | .00049 | 6.3037 | .00084 |
| #2 | .00010 | .00125 | .07480 | .99747 | .00456 | 2.4306 | .01049 | .00072 | 6.3016 | .00089 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00728** | **-.00117** | **.72853** | **-.00374** | **.00228** | **3.3089** | **7.0810** | **-.00080** | **.05449** | **.00050** |
| Stddev | .00075 | .00016 | .00479 | .00085 | .00336 | .0390 | .0835 | .00088 | .00005 | .00045 |
| %RSD | 10.330 | 13.701 | .65720 | 22.775 | 147.35 | 1.1788 | 1.1788 | 110.66 | .09633 | 90.106 |
| #1 | .00674 | -.00129 | .72515 | -.00314 | -.00010 | 3.3364 | 7.1400 | -.00142 | .05453 | .00082 |
| #2 | .00781 | -.00106 | .73192 | -.00434 | .00466 | 3.2813 | 7.0219 | -.00017 | .05446 | .00018 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00048** | **.00147** | **-.02304** | **-.00034** | **.00425** | **.00479** |
| Stddev | .00020 | .00007 | .00044 | .00043 | .00011 | .00097 |
| %RSD | 41.687 | 5.0778 | 1.8988 | 124.16 | 2.5097 | 20.258 |
| #1 | .00034 | .00153 | -.02273 | -.00064 | .00432 | .00548 |
| #2 | .00062 | .00142 | -.02334 | -.00004 | .00417 | .00411 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9364.3** | **118060.** | **9650.6** |
| Stddev | 11.2 | 355. | 59.3 |
| %RSD | .12012 | .30028 | .61460 |
| #1 | 9372.2 | 118310. | 9608.6 |
| #2 | 9356.3 | 117810. | 9692.5 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 1:41:04 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00077** | **50.095** | **.00115** | **.00284** | **.00054** | **-.00002** | W **1.0608** | **-.01076** | **.00037** | **.00022** | **-.00019** | **.00370** |
| Stddev | .00049 | .232 | .00111 | .00046 | .00043 | .00004 | .0033 | .00071 | .00006 | .00005 | .00005 | .00067 |
| %RSD | 64.236 | .46328 | 96.105 | 16.149 | 78.402 | 249.50 | .31311 | 6.6101 | 16.112 | 24.723 | 28.251 | 17.996 |
| #1 | .00112 | 49.931 | .00037 | .00251 | .00084 | -.00004 | 1.0584 | -.01126 | .00041 | .00025 | -.00023 | .00418 |
| #2 | .00042 | 50.259 | .00193 | .00316 | .00024 | .00001 | 1.0631 | -.01026 | .00032 | .00018 | -.00015 | .00323 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.963** | **.08205** | **.00177** | **-.00125** | **.00007** | **-.00013** | **257.43** | **.00097** | **.00211** | **.00108** | **5.1581** | **-.00121** |
| Stddev | .263 | .03454 | .00116 | .00224 | .00008 | .00002 | .88 | .00007 | .00023 | .00087 | .0087 | .00055 |
| %RSD | .52694 | 42.091 | 65.320 | 178.96 | 119.77 | 13.267 | .34327 | 6.7871 | 10.810 | 80.384 | .16861 | 45.268 |
| #1 | 49.777 | .10647 | .00259 | -.00284 | .00001 | -.00012 | 256.81 | .00093 | .00195 | .00047 | 5.1519 | -.00160 |
| #2 | 50.149 | .05763 | .00095 | .00033 | .00013 | -.00014 | 258.06 | .00102 | .00227 | .00169 | 5.1642 | -.00083 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00113** | **.00666** | **.01425** | **-.00042** | **.00042** | **4.8349** | **-.00008** | **.00142** | **10.346** | **.00022** | **-.00004** | **.03485** |
| Stddev | .00063 | .00437 | .00936 | .00045 | .00008 | .0006 | .00015 | .00027 | .018 | .00018 | .00033 | .00003 |
| %RSD | 55.555 | 65.663 | 65.663 | 106.72 | 20.212 | .01163 | 200.59 | 19.033 | .17560 | 84.320 | 847.42 | .08139 |
| #1 | -.00069 | .00975 | .02087 | -.00074 | .00036 | 4.8345 | -.00019 | .00123 | 10.359 | .00035 | -.00028 | .03483 |
| #2 | -.00157 | .00357 | .00763 | -.00010 | .00048 | 4.8353 | .00003 | .00161 | 10.334 | .00009 | .00020 | .03487 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8912.8** | **110390.** | **9527.1** |
| Stddev | 18.7 | 377. | 3.0 |
| %RSD | .20995 | .34131 | .03115 |
| #1 | 8926.0 | 110660. | 9529.2 |
| #2 | 8899.5 | 110130. | 9525.0 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 1:43:25 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49456** | **.50271** | **1.0103** | **.51682** | **.51327** | **.50104** | **.00337** | **5.0473** | **.51174** | **.50582** | **.50117** | **.50025** | **2.5681** |
| Stddev | .00034 | .00093 | .0038 | .00005 | .00054 | .00035 | .00003 | .0034 | .00024 | .00012 | .00002 | .00074 | .0173 |
| %RSD | .06776 | .18520 | .37393 | .01016 | .10471 | .06911 | .97336 | .06764 | .04628 | .02287 | .00405 | .14707 | .67464 |
| #1 | .49433 | .50206 | 1.0130 | .51678 | .51365 | .50080 | .00335 | 5.0497 | .51190 | .50574 | .50119 | .50077 | 2.5559 |
| #2 | .49480 | .50337 | 1.0077 | .51686 | .51289 | .50129 | .00340 | 5.0449 | .51157 | .50590 | .50116 | .49973 | 2.5804 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.079** | **.96772** | **19.022** | **.48475** | **.50641** | **5.2346** | **.50660** | **1.0191** | **1.0180** | **.01178** | **1.0275** | **1.0200** | **4.9800** |
| Stddev | .013 | .00135 | .033 | .00028 | .00121 | .0062 | .00005 | .0001 | .0046 | .00169 | .0053 | .0038 | .0311 |
| %RSD | .02593 | .13979 | .17310 | .05712 | .23894 | .11889 | .00995 | .01312 | .45196 | 14.311 | .51077 | .36838 | .62395 |
| #1 | 50.069 | .96868 | 19.045 | .48455 | .50727 | 5.2302 | .50656 | 1.0190 | 1.0212 | .01297 | 1.0313 | 1.0226 | 4.9580 |
| #2 | 50.088 | .96677 | 18.999 | .48495 | .50555 | 5.2390 | .50664 | 1.0192 | 1.0147 | .01059 | 1.0238 | 1.0173 | 5.0019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.657** | **1.0101** | **.50299** | **-.00350** | **.48795** | **1.0294** | **-.05536** | **.49552** | **.47747** | **.50349** |
| Stddev | .067 | .0041 | .00017 | .00014 | .00001 | .0047 | .00078 | .00061 | .00172 | .00442 |
| %RSD | .62395 | .40215 | .03357 | 4.1180 | .00138 | .45806 | 1.4143 | .12228 | .36072 | .87814 |
| #1 | 10.610 | 1.0130 | .50287 | -.00360 | .48794 | 1.0327 | -.05481 | .49595 | .47869 | .50036 |
| #2 | 10.704 | 1.0072 | .50311 | -.00340 | .48795 | 1.0261 | -.05592 | .49509 | .47625 | .50662 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9214.8** | **114980.** | **9583.9** |
| Stddev | 8.7 | 110. | 4.4 |
| %RSD | .09454 | .09559 | .04620 |
| #1 | 9221.0 | 114900. | 9580.7 |
| #2 | 9208.7 | 115050. | 9587.0 |

Sample Name: CCB  Acquired: 8/16/2013 1:45:31  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00082** | W **.01903** | **.00169** | **.00176** | **.00003** | **-.00002** | **.00532** | **.00020** | **.00024** | **.00003** | **-.00002** | **-.00047** |
| Stddev | .00029 | .00004 | .00370 | .00020 | .00010 | .00002 | .00005 | .00133 | .00015 | .00009 | .00007 | .00026 |
| %RSD | 34.970 | .22387 | 218.76 | 11.304 | 355.06 | 62.795 | .91517 | 672.35 | 62.946 | 296.93 | 289.25 | 55.588 |
| #1 | .00062 | .01900 | -.00093 | .00190 | .00009 | -.00001 | .00528 | .00114 | .00014 | .00010 | -.00007 | -.00029 |
| #2 | .00102 | .01907 | .00431 | .00162 | -.00004 | -.00003 | .00535 | -.00074 | .00035 | -.00003 | .00003 | -.00066 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | .01800 | | | | | | | | | | |
| Low Limit | | -.01800 | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00200** | **.08727** | **-.00211** | **.00249** | **.00005** | **.00077** | W **.16504** | **.00014** | **.00024** | **-.00154** | **.01191** | W **.00435** |
| Stddev | .00108 | .01696 | .00034 | .00095 | .00003 | .00029 | .00551 | .00019 | .00082 | .00036 | .00066 | .00329 |
| %RSD | 54.065 | 19.431 | 15.968 | 38.246 | 57.487 | 37.743 | 3.3399 | 135.25 | 340.80 | 23.108 | 5.5136 | 75.805 |
| #1 | -.00124 | .07528 | -.00187 | .00316 | .00003 | .00057 | .16114 | .00001 | -.00034 | -.00179 | .01237 | .00202 |
| #2 | -.00277 | .09926 | -.00234 | .00181 | .00007 | .00098 | .16894 | .00027 | .00082 | -.00129 | .01145 | .00667 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00211** | **.00388** | **.00831** | **-.00040** | **-.00005** | **.00113** | **.00013** | **.00056** | **-.03022** | **-.00083** | **.00119** | W **.00332** |
| Stddev | .00195 | .00148 | .00317 | .00059 | .00013 | .00074 | .00007 | .00004 | .01480 | .00033 | .00031 | .00161 |
| %RSD | 92.556 | 38.150 | 38.150 | 147.01 | 285.34 | 65.047 | 55.746 | 7.8227 | 48.964 | 39.826 | 25.877 | 48.359 |
| #1 | .00349 | .00284 | .00607 | .00002 | .00005 | .00061 | .00018 | .00059 | -.01975 | -.00060 | .00097 | .00446 |
| #2 | .00073 | .00493 | .01055 | -.00082 | -.00014 | .00166 | .00008 | .00053 | -.04068 | -.00107 | .00141 | .00219 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9338.4** | **117140.** | **9484.2** |
| Stddev | 54.3 | 160. | 39.5 |
| %RSD | .58111 | .13650 | .41662 |
| #1 | 9376.8 | 117030. | 9512.1 |
| #2 | 9300.1 | 117250. | 9456.3 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 1:47:45 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01079** | **.10684** | **.01750** | **.10504** | **.01019** | **.00100** | **.12481** | **.20703** | **.00559** | **.01092** | **.01041** | **.01575** | **.10561** |
| Stddev | .00029 | .00053 | .00001 | .00011 | .00017 | .00007 | .00191 | .00075 | .00003 | .00018 | .00006 | .00008 | .00183 |
| %RSD | 2.7181 | .49746 | .05521 | .10017 | 1.7004 | 6.6701 | 1.5319 | .36200 | .46020 | 1.6391 | .53595 | .52498 | 1.7360 |
| #1 | .01058 | .10646 | .01751 | .10497 | .01007 | .00095 | .12617 | .20756 | .00560 | .01079 | .01037 | .01581 | .10691 |
| #2 | .01099 | .10722 | .01749 | .10512 | .01031 | .00105 | .12346 | .20650 | .00557 | .01104 | .01045 | .01569 | .10432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1752** | **.01266** | **.20352** | **.01027** | **.02013** | **1.2089** | **.04334** | **3.0697** | **.00858** | **.00731** | **.00867** | **.01898** | **.48517** |
| Stddev | .0380 | .00123 | .00110 | .00000 | .00005 | .0227 | .00013 | .0099 | .00015 | .00260 | .00231 | .00471 | .00658 |
| %RSD | 1.1980 | 9.6870 | .54201 | .02088 | .24994 | 1.8774 | .29218 | .32143 | 1.7800 | 35.566 | 26.689 | 24.844 | 1.3559 |
| #1 | 3.1483 | .01179 | .20274 | .01027 | .02016 | 1.2249 | .04325 | 3.0627 | .00847 | .00915 | .00703 | .01564 | .48982 |
| #2 | 3.2021 | .01352 | .20430 | .01027 | .02009 | 1.1928 | .04343 | 3.0767 | .00869 | .00547 | .01031 | .02231 | .48052 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0383** | **.10357** | **.01041** | **.01320** | **.01002** | **.01770** | **.04569** | **.00950** | **.02068** | F **.02079** |
| Stddev | .0141 | .00009 | .00008 | .00269 | .00026 | .00084 | .01167 | .00021 | .00013 | .00071 |
| %RSD | 1.3559 | .08628 | .76167 | 20.387 | 2.5624 | 4.7467 | 25.542 | 2.1892 | .62418 | 3.3944 |
| #1 | 1.0482 | .10363 | .01047 | .01511 | .00984 | .01711 | .03744 | .00965 | .02059 | .02129 |
| #2 | 1.0283 | .10350 | .01036 | .01130 | .01020 | .01830 | .05394 | .00935 | .02077 | .02029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9463.0** | **119420.** | **9869.9** |
| Stddev | 9.1 | 445. | 46.5 |
| %RSD | .09598 | .37291 | .47145 |
| #1 | 9469.4 | 119100. | 9902.8 |
| #2 | 9456.6 | 119730. | 9837.0 |

Sample Name: 280-45432-e-7-c  Acquired: 8/16/2013 1:50:00  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00057** | **.00809** | **.00080** | **.00430** | **.04063** | **.00007** | **.00261** | **6.9742** | **.00028** | **.00023** |
| Stddev | .00036 | .00015 | .00234 | .00027 | .00023 | .00006 | .00232 | .0035 | .00014 | .00002 |
| %RSD | 64.014 | 1.8580 | 294.16 | 6.3282 | .55801 | 85.841 | 88.950 | .04987 | 49.663 | 7.4933 |
| #1 | .00031 | .00820 | -.00086 | .00449 | .04079 | .00011 | .00425 | 6.9767 | .00018 | .00022 |
| #2 | .00082 | .00799 | .00245 | .00410 | .04047 | .00003 | .00097 | 6.9717 | .00038 | .00025 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00007** | **.00026** | **.11486** | **.78872** | **.00233** | **2.8939** | **.01099** | **.00049** | **7.2598** | **.00040** |
| Stddev | .00008 | .00048 | .00073 | .01894 | .00072 | .0003 | .00001 | .00001 | .0193 | .00034 |
| %RSD | 128.69 | 188.13 | .63286 | 2.4017 | 30.914 | .01108 | .12287 | 2.8702 | .26601 | 84.498 |
| #1 | .00001 | .00060 | .11537 | .77533 | .00284 | 2.8936 | .01099 | .00048 | 7.2461 | .00064 |
| #2 | .00013 | -.00008 | .11434 | .80212 | .00182 | 2.8941 | .01098 | .00049 | 7.2734 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00536** | **-.00125** | **.80014** | **-.00290** | **.00128** | **4.0183** | **8.5991** | **-.00113** | **.04490** | **.00125** |
| Stddev | .00100 | .00056 | .00667 | .00343 | .00001 | .0256 | .0547 | .00007 | .00036 | .00023 |
| %RSD | 18.587 | 44.538 | .83393 | 118.51 | 1.0733 | .63662 | .63662 | 6.5896 | .79545 | 18.376 |
| #1 | .00606 | -.00164 | .79542 | -.00533 | .00128 | 4.0364 | 8.6379 | -.00118 | .04515 | .00109 |
| #2 | .00465 | -.00085 | .80486 | -.00047 | .00127 | 4.0002 | 8.5604 | -.00108 | .04465 | .00141 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00118** | **-.02646** | **-.00079** | **.00348** | **.00358** |
| Stddev | .00010 | .00017 | .02198 | .00041 | .00004 | .00122 |
| %RSD | 18.845 | 14.460 | 83.091 | 51.892 | 1.1222 | 34.205 |
| #1 | .00048 | .00130 | -.01091 | -.00109 | .00346 | .00444 |
| #2 | .00063 | .00106 | -.04200 | -.00050 | .00351 | .00271 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9407.3** | **117750.** | **9805.7** |
| Stddev | 43.5 | 213. | 32.0 |
| %RSD | .46226 | .18089 | .32591 |
| #1 | 9376.5 | 117600. | 9828.3 |
| #2 | 9438.0 | 117900. | 9783.1 |

Sample Name: 280-45432-e-8-c  Acquired: 8/16/2013 1:52:16  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.04220** | **-.00023** | **.00670** | **.04695** | **.00001** | **.00126** | **21.184** | **.00012** | **.00003** |
| Stddev | .00002 | .00001 | .00239 | .00006 | .00006 | .00004 | .00209 | .073 | .00017 | .00012 |
| %RSD | 6.1584 | .03318 | 1055.7 | .94493 | .11862 | 624.81 | 166.61 | .34581 | 133.84 | 344.61 |
| #1 | .00035 | .04219 | -.00192 | .00674 | .04699 | .00004 | .00273 | 21.132 | .00024 | -.00005 |
| #2 | .00032 | .04221 | .00146 | .00665 | .04691 | -.00002 | -.00022 | 21.236 | .00001 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00081** | **.06333** | **1.9513** | **.00723** | **4.1870** | **.00168** | **.00941** | **15.604** | **.00044** |
| Stddev | .00022 | .00068 | .00130 | .0302 | .00302 | .0062 | .00002 | .00014 | .102 | .00006 |
| %RSD | 471.39 | 84.582 | 2.0480 | 1.5504 | 41.757 | .14846 | 1.2372 | 1.5285 | .65634 | 14.606 |
| #1 | .00020 | .00129 | .06425 | 1.9727 | .00937 | 4.1914 | .00167 | .00931 | 15.676 | .00048 |
| #2 | -.00011 | .00032 | .06241 | 1.9299 | .00510 | 4.1826 | .00170 | .00952 | 15.531 | .00039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00721** | **-.00038** | **2.6417** | **-.00470** | **.00040** | **5.2843** | **11.309** | **-.00106** | **.55968** | **-.00008** |
| Stddev | .00014 | .00012 | .0000 | .00247 | .00282 | .0261 | .056 | .00075 | .00015 | .00175 |
| %RSD | 1.9014 | 30.580 | .00065 | 52.511 | 700.37 | .49429 | .49429 | 71.006 | .02645 | 2244.6 |
| #1 | .00730 | -.00047 | 2.6417 | -.00296 | -.00159 | 5.2659 | 11.269 | -.00053 | .55957 | .00116 |
| #2 | .00711 | -.00030 | 2.6417 | -.00645 | .00240 | 5.3028 | 11.348 | -.00159 | .55978 | -.00131 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00214** | **.00021** | **.18536** | **-.00024** | **.00567** | **.00585** |
| Stddev | .00006 | .00080 | .00078 | .00029 | .00020 | .00040 |
| %RSD | 2.8853 | 377.93 | .41811 | 121.10 | 3.4661 | 6.8193 |
| #1 | .00219 | -.00035 | .18482 | -.00003 | .00580 | .00557 |
| #2 | .00210 | .00077 | .18591 | -.00045 | .00553 | .00613 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9368.8** | **117430.** | **9887.0** |
| Stddev | 24.6 | 408. | 40.0 |
| %RSD | .26218 | .34706 | .40440 |
| #1 | 9386.2 | 117140. | 9915.2 |
| #2 | 9351.4 | 117710. | 9858.7 |

Sample Name: 280-45432-e-9-c  Acquired: 8/16/2013 1:54:33  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00034** | **.07891** | **-.00086** | **.00894** | **.03898** | **-.00002** | **.00190** | **22.098** | **.00033** | **.00017** |
| Stddev | .00001 | .00047 | .00254 | .00006 | .00006 | .00004 | .00128 | .146 | .00011 | .00007 |
| %RSD | 2.3798 | .59329 | 295.71 | .63760 | .16340 | 179.58 | 67.636 | .65921 | 34.199 | 42.190 |
| #1 | .00035 | .07924 | .00094 | .00890 | .03893 | .00001 | .00099 | 21.995 | .00040 | .00022 |
| #2 | .00034 | .07858 | -.00265 | .00898 | .03902 | -.00005 | .00281 | 22.201 | .00025 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00174** | **.11691** | **1.6554** | **.00452** | **6.6107** | **.01292** | **.00773** | **8.6324** | **.00209** |
| Stddev | .00008 | .00026 | .00051 | .0135 | .00111 | .0020 | .00003 | .00011 | .0677 | .00015 |
| %RSD | 41.854 | 14.849 | .43296 | .81769 | 24.661 | .03072 | .21605 | 1.4575 | .78466 | 7.1778 |
| #1 | .00013 | .00192 | .11656 | 1.6458 | .00373 | 6.6093 | .01290 | .00765 | 8.5845 | .00219 |
| #2 | .00024 | .00155 | .11727 | 1.6649 | .00531 | 6.6121 | .01294 | .00781 | 8.6803 | .00198 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01169** | **.00068** | **4.7722** | **-.00347** | **.00002** | **4.9673** | **10.630** | **-.00167** | **.43905** | **.00089** |
| Stddev | .00096 | .00114 | .0233 | .00289 | .00280 | .0201 | .043 | .00039 | .00311 | .00005 |
| %RSD | 8.2376 | 167.60 | .48824 | 83.330 | 16140. | .40475 | .40475 | 23.421 | .70882 | 6.0015 |
| #1 | .01101 | -.00013 | 4.7887 | -.00142 | -.00196 | 4.9815 | 10.660 | -.00194 | .43685 | .00092 |
| #2 | .01237 | .00149 | 4.7557 | -.00551 | .00199 | 4.9530 | 10.600 | -.00139 | .44125 | .00085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00338** | **.00068** | **.10815** | **-.00011** | **.01231** | **.00585** |
| Stddev | .00001 | .00063 | .01850 | .00019 | .00037 | .00181 |
| %RSD | .21417 | 92.885 | 17.108 | 177.01 | 3.0410 | 30.958 |
| #1 | .00338 | .00112 | .12123 | -.00024 | .01257 | .00713 |
| #2 | .00339 | .00023 | .09506 | .00003 | .01204 | .00457 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9410.3** | **117510.** | **9771.6** |
| Stddev | 2.4 | 70. | 34.7 |
| %RSD | .02590 | .05994 | .35488 |
| #1 | 9408.6 | 117460. | 9796.1 |
| #2 | 9412.0 | 117560. | 9747.1 |

Sample Name: 280-45432-e-9-cSD@5 Acquired: 8/16/2013 1:56:49 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187275 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.02985** | **.00148** | **.00392** | **.01073** | **.00000** | **.00312** | **6.2618** | **.00030** | **.00001** |
| Stddev | .00031 | .00002 | .00039 | .00055 | .00009 | .0001 | .00174 | .0453 | .00011 | .00002 |
| %RSD | 142.81 | .05213 | 26.490 | 14.135 | .81357 | 2342.3 | 55.696 | .72320 | 36.940 | 256.25 |
| #1 | .00000 | .02983 | .00176 | .00432 | .01067 | .00004 | .00189 | 6.2298 | .00038 | .00003 |
| #2 | .00044 | .02986 | .00121 | .00353 | .01080 | -.00005 | .00435 | 6.2938 | .00022 | -.00001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **.00048** | **.03757** | **.57630** | **.00112** | **1.8769** | **.00380** | **.00209** | **2.5477** | **.00054** |
| Stddev | .00003 | .00026 | .00176 | .01687 | .00250 | .0080 | .00005 | .00007 | .0178 | .00027 |
| %RSD | 317.46 | 53.473 | 4.6964 | 2.9265 | 224.25 | .42528 | 1.2862 | 3.2518 | .69750 | 51.116 |
| #1 | -.00001 | .00066 | .03881 | .56438 | .00289 | 1.8713 | .00377 | .00214 | 2.5351 | .00034 |
| #2 | .00003 | .00030 | .03632 | .58823 | -.00065 | 1.8826 | .00384 | .00205 | 2.5603 | .00073 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00450** | **-.00064** | **1.2962** | **-.00234** | **.00008** | **1.3663** | **2.9239** | **-.00051** | **.12480** | **.00059** |
| Stddev | .00035 | .00005 | .0068 | .00112 | .00114 | .0189 | .0404 | .00009 | .00067 | .00133 |
| %RSD | 7.8724 | 8.0492 | .52223 | 47.809 | 1373.8 | 1.3818 | 1.3818 | 18.290 | .53444 | 226.46 |
| #1 | .00425 | -.00060 | 1.3010 | -.00155 | .00089 | 1.3530 | 2.8954 | -.00045 | .12433 | -.00035 |
| #2 | .00476 | -.00068 | 1.2914 | -.00313 | -.00072 | 1.3797 | 2.9525 | -.00058 | .12527 | .00153 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00110** | **.00079** | **.02900** | **-.00024** | **.00587** | **.00425** |
| Stddev | .00026 | .00018 | .00584 | .00014 | .00064 | .00191 |
| %RSD | 23.127 | 22.719 | 20.141 | 56.036 | 10.881 | 44.877 |
| #1 | .00092 | .00067 | .02487 | -.00015 | .00632 | .00560 |
| #2 | .00128 | .00092 | .03314 | -.00034 | .00542 | .00290 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9316.3** | **117150.** | **9728.4** |
| Stddev | 15.4 | 438. | 30.4 |
| %RSD | .16557 | .37389 | .31228 |
| #1 | 9305.4 | 117460. | 9707.0 |
| #2 | 9327.2 | 116840. | 9749.9 |

Sample Name: 280-45432-e-9-d ms  Acquired: 8/16/2013 1:59:11  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04227** | **1.7456** | **.89078** | **.89694** | **1.7998** | **.04291** | F **1.8599** | **64.623** | **.09332** | **.42561** |
| Stddev | .00050 | .0012 | .00226 | .00072 | .0032 | .00005 | .0063 | .136 | .00038 | .00085 |
| %RSD | 1.1737 | .06799 | .25378 | .07997 | .18012 | .12243 | .33951 | .21112 | .40556 | .19945 |
| #1 | .04192 | 1.7447 | .88918 | .89745 | 1.8021 | .04287 | 1.8643 | 64.720 | .09359 | .42621 |
| #2 | .04262 | 1.7464 | .89237 | .89644 | 1.7975 | .04295 | 1.8554 | 64.527 | .09305 | .42501 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17294** | **.21956** | **.98488** | **44.963** | **.83450** | **47.598** | **.43006** | **.88428** | **53.746** | **.42897** |
| Stddev | .00019 | .00025 | .00079 | .127 | .00366 | .022 | .00058 | .00121 | .186 | .00020 |
| %RSD | .10964 | .11369 | .07978 | .28229 | .43894 | .04718 | .13574 | .13679 | .34629 | .04646 |
| #1 | .17281 | .21938 | .98543 | 45.053 | .83709 | 47.614 | .42965 | .88514 | 53.614 | .42883 |
| #2 | .17308 | .21973 | .98432 | 44.873 | .83191 | 47.582 | .43047 | .88343 | 53.878 | .42911 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **9.0140** | **.43333** | **4.8732** | **.43208** | **1.7575** | **13.645** | **29.200** | **1.7323** | **1.3084** | **.82282** |
| Stddev | .0039 | .00064 | .0007 | .00058 | .0036 | .071 | .153 | .0015 | .0023 | .00456 |
| %RSD | .04325 | .14818 | .01482 | .13371 | .20610 | .52384 | .52384 | .08905 | .17456 | .55418 |
| #1 | 9.0168 | .43379 | 4.8737 | .43249 | 1.7601 | 13.695 | 29.308 | 1.7334 | 1.3100 | .82604 |
| #2 | 9.0113 | .43288 | 4.8727 | .43167 | 1.7549 | 13.594 | 29.092 | 1.7312 | 1.3067 | .81959 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.86199** | **1.7002** | **1.9635** | **.43508** | **.41983** | **.44424** |
| Stddev | .00021 | .0022 | .0442 | .00169 | .00067 | .00179 |
| %RSD | .02454 | .12674 | 2.2496 | .38891 | .15859 | .40366 |
| #1 | .86184 | 1.7018 | 1.9323 | .43627 | .41935 | .44297 |
| #2 | .86214 | 1.6987 | 1.9948 | .43388 | .42030 | .44551 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9092.0** | **112830.** | **9768.5** |
| Stddev | 3.6 | 33. | 35.3 |
| %RSD | .03942 | .02923 | .36168 |
| #1 | 9094.5 | 112860. | 9743.5 |
| #2 | 9089.4 | 112810. | 9793.5 |

Sample Name: 280-45432-e-9-e msd  Acquired: 8/16/2013 2:01:18  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187275  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04257** | **1.7344** | **.87511** | **.88810** | **1.7768** | **.04248** | F **1.8371** | **63.589** | **.09202** | **.42136** |
| Stddev | .00023 | .0013 | .00241 | .00213 | .0003 | .00007 | .0005 | .176 | .00030 | .00040 |
| %RSD | .53474 | .07307 | .27586 | .24017 | .01412 | .16288 | .02621 | .27751 | .32504 | .09526 |
| #1 | .04274 | 1.7335 | .87682 | .88961 | 1.7766 | .04243 | 1.8368 | 63.465 | .09181 | .42165 |
| #2 | .04241 | 1.7353 | .87340 | .88659 | 1.7770 | .04253 | 1.8374 | 63.714 | .09223 | .42108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.17108** | **.21974** | **.99989** | **44.450** | **.82463** | **47.025** | **.42692** | **.87404** | **52.654** | **.42392** |
| Stddev | .00015 | .00038 | .00216 | .228 | .00384 | .153 | .00035 | .00143 | .593 | .00046 |
| %RSD | .08920 | .17159 | .21560 | .51309 | .46619 | .32635 | .08083 | .16304 | 1.1267 | .10848 |
| #1 | .17119 | .21947 | .99837 | 44.289 | .82191 | 47.133 | .42716 | .87505 | 53.073 | .42359 |
| #2 | .17097 | .22001 | 1.0014 | 44.611 | .82735 | 46.916 | .42667 | .87303 | 52.234 | .42424 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.8899** | **.42730** | **4.7491** | **.42819** | **1.7368** | **13.415** | **28.708** | **1.7177** | **1.2891** | **.81411** |
| Stddev | .0047 | .00126 | .0027 | .00357 | .0004 | .067 | .144 | .0029 | .0029 | .00236 |
| %RSD | .05269 | .29561 | .05670 | .83277 | .02288 | .50294 | .50294 | .16579 | .22130 | .29046 |
| #1 | 8.8932 | .42819 | 4.7510 | .43071 | 1.7365 | 13.367 | 28.606 | 1.7197 | 1.2871 | .81244 |
| #2 | 8.8866 | .42640 | 4.7472 | .42566 | 1.7370 | 13.463 | 28.810 | 1.7157 | 1.2911 | .81578 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.85651** | **1.6858** | **1.9642** | **.43256** | **.41427** | **.43978** |
| Stddev | .00070 | .0023 | .0116 | .00090 | .00029 | .00423 |
| %RSD | .08197 | .13616 | .58877 | .20692 | .06998 | .96118 |
| #1 | .85700 | 1.6842 | 1.9724 | .43192 | .41448 | .43679 |
| #2 | .85601 | 1.6874 | 1.9560 | .43319 | .41407 | .44277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9062.7** | **112660.** | **9718.2** |
| Stddev | 1.9 | 601. | 99.0 |
| %RSD | .02056 | .53323 | 1.0183 |
| #1 | 9061.4 | 112230. | 9788.2 |
| #2 | 9064.0 | 113080. | 9648.3 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 2:03:25 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **49.679** | **.00205** | **.00487** | **.00066** | **.00002** | **1.0442** | **-.00527** | **.00017** | **.00016** | **-.00007** | **.00299** | **49.210** |
| Stddev | .00153 | .290 | .00181 | .00037 | .00019 | .00004 | .0040 | .00266 | .00026 | .00038 | .00016 | .00061 | .026 |
| %RSD | 502.26 | .58383 | 88.445 | 7.6344 | 28.849 | 252.68 | .38312 | 50.506 | 152.79 | 232.87 | 246.87 | 20.518 | .05210 |
| #1 | -.00078 | 49.474 | .00333 | .00513 | .00079 | -.00001 | 1.0413 | -.00339 | -.00001 | -.00011 | .00005 | .00343 | 49.228 |
| #2 | .00138 | 49.884 | .00077 | .00461 | .00052 | .00004 | 1.0470 | -.00716 | .00036 | .00044 | -.00018 | .00256 | 49.192 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14176** | **.00013** | **.00022** | **.00003** | **.00134** | **254.55** | **.00104** | **.00331** | **.00119** | **5.1489** | **.00123** | **-.00091** | **.01562** |
| Stddev | .06254 | .00030 | .00046 | .00000 | .00054 | 1.66 | .00009 | .00141 | .00044 | .0130 | .00002 | .00231 | .00050 |
| %RSD | 44.117 | 235.62 | 204.85 | 14.893 | 39.996 | .65040 | 8.4769 | 42.512 | 36.671 | .25184 | 1.3641 | 253.05 | 3.2045 |
| #1 | .09754 | -.00009 | -.00010 | .00002 | .00096 | 253.38 | .00098 | .00231 | .00150 | 5.1580 | .00121 | .00072 | .01527 |
| #2 | .18599 | .00034 | .00055 | .00003 | .00172 | 255.72 | .00110 | .00430 | .00088 | 5.1397 | .00124 | -.00255 | .01597 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03343** | **-.00092** | **.00040** | **4.8514** | **.00026** | **.00283** | **10.203** | **.00076** | **.01242** | **.02743** |
| Stddev | .00107 | .00062 | .00004 | .0135 | .00012 | .00106 | .002 | .00023 | .00011 | .00008 |
| %RSD | 3.2045 | 67.389 | 9.1049 | .27897 | 47.640 | 37.547 | .01960 | 30.059 | .84644 | .27429 |
| #1 | .03267 | -.00136 | .00037 | 4.8419 | .00017 | .00208 | 10.202 | .00092 | .01249 | .02738 |
| #2 | .03418 | -.00048 | .00042 | 4.8610 | .00035 | .00358 | 10.205 | .00060 | .01235 | .02749 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9018.5** | **110820.** | **9599.6** |
| Stddev | 11.4 | 422. | 18.1 |
| %RSD | .12680 | .38068 | .18883 |
| #1 | 9026.6 | 110530. | 9612.4 |
| #2 | 9010.4 | 111120. | 9586.7 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 2:05:48 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49479** | **.50867** | **1.0037** | **.51634** | **.50507** | **.49469** | **.00198** | **4.9958** | **.51193** | **.50739** | **.49966** | **.50261** | **2.5288** |
| Stddev | .00048 | .00018 | .0003 | .00219 | .00023 | .00084 | .00129 | .0010 | .00067 | .00154 | .00032 | .00114 | .0156 |
| %RSD | .09788 | .03446 | .03188 | .42356 | .04477 | .16902 | 65.182 | .01893 | .13020 | .30380 | .06453 | .22611 | .61545 |
| #1 | .49445 | .50855 | 1.0034 | .51479 | .50523 | .49528 | .00107 | 4.9951 | .51146 | .50630 | .49943 | .50181 | 2.5398 |
| #2 | .49514 | .50880 | 1.0039 | .51788 | .50491 | .49410 | .00290 | 4.9965 | .51240 | .50848 | .49989 | .50341 | 2.5178 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.745** | **.96418** | **19.119** | **.49050** | **.50220** | **5.2088** | **.50526** | **1.0171** | **1.0157** | **.00441** | **1.0333** | **1.0190** | **4.9065** |
| Stddev | .045 | .00366 | .004 | .00085 | .00007 | .0242 | .00096 | .0023 | .0010 | .00258 | .0046 | .0053 | .0310 |
| %RSD | .09113 | .37983 | .01841 | .17266 | .01427 | .46505 | .18949 | .22533 | .09474 | 58.345 | .44453 | .51794 | .63157 |
| #1 | 49.777 | .96677 | 19.116 | .48990 | .50225 | 5.2259 | .50458 | 1.0154 | 1.0164 | .00259 | 1.0366 | 1.0227 | 4.9284 |
| #2 | 49.713 | .96160 | 19.121 | .49110 | .50215 | 5.1917 | .50593 | 1.0187 | 1.0150 | .00624 | 1.0301 | 1.0153 | 4.8846 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.500** | **1.0064** | **.50229** | **-.00408** | **.49457** | **1.0356** | **.00998** | **.49779** | **.48053** | **.50624** |
| Stddev | .066 | .0030 | .00007 | .00158 | .00115 | .0032 | .01775 | .00005 | .00194 | .00345 |
| %RSD | .63157 | .29799 | .01487 | 38.692 | .23254 | .30671 | 177.85 | .01027 | .40402 | .68197 |
| #1 | 10.547 | 1.0085 | .50224 | -.00297 | .49376 | 1.0379 | -.00257 | .49782 | .48190 | .50380 |
| #2 | 10.453 | 1.0043 | .50234 | -.00520 | .49538 | 1.0334 | .02253 | .49775 | .47916 | .50869 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9242.1** | **113900.** | **9553.6** |
| Stddev | 7.0 | 128. | 42.0 |
| %RSD | .07619 | .11236 | .43964 |
| #1 | 9247.1 | 113810. | 9523.9 |
| #2 | 9237.1 | 113990. | 9583.3 |

Sample Name: CCB  Acquired: 8/16/2013 2:07:56  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00040** | **.00243** | **.00226** | **.00017** | **.00002** | **.00657** | **-.00098** | **.00022** | **.00010** | **-.00007** | **-.00077** |
| Stddev | .00069 | .00064 | .00050 | .00002 | .00010 | .00002 | .00020 | .00242 | .00027 | .00012 | .00002 | .00019 |
| %RSD | 137.53 | 159.25 | 20.626 | .92897 | 55.556 | 143.68 | 3.0528 | 245.46 | 126.06 | 116.91 | 34.089 | 24.277 |
| #1 | .00099 | .00085 | .00279 | .00227 | .00010 | .00003 | .00643 | .00072 | .00041 | .00018 | -.00005 | -.00091 |
| #2 | .00001 | -.00005 | .00208 | .00224 | .00024 | .00000 | .00672 | -.00269 | .00002 | .00002 | -.00008 | -.00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **.09225** | **.00022** | **.00123** | **.00006** | **.00073** | W **.15118** | **.00016** | **.00074** | **-.00082** | **.00424** | W **.00436** |
| Stddev | .00137 | .00628 | .00080 | .00099 | .00005 | .00013 | .00829 | .00009 | .00047 | .00011 | .00092 | .00368 |
| %RSD | 381.32 | 6.8020 | 358.57 | 80.596 | 77.403 | 17.780 | 5.4853 | 54.426 | 63.284 | 13.911 | 21.696 | 84.271 |
| #1 | .00133 | .09669 | -.00034 | .00053 | .00003 | .00064 | .15705 | .00022 | .00041 | -.00090 | .00489 | .00176 |
| #2 | -.00061 | .08782 | .00079 | .00193 | .00009 | .00082 | .14532 | .00010 | .00108 | -.00074 | .00359 | .00697 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00056** | **.00183** | **.00392** | **-.00078** | **.00017** | **.00237** | **.00052** | **.00062** | **-.03732** | **-.00048** | **.00125** | F **.00503** |
| Stddev | .00026 | .01111 | .02377 | .00102 | .00006 | .00103 | .00007 | .00033 | .03136 | .00021 | .00003 | .00122 |
| %RSD | 47.117 | 605.90 | 605.90 | 131.58 | 36.807 | 43.402 | 13.659 | 53.195 | 84.042 | 43.725 | 2.4851 | 24.216 |
| #1 | .00075 | .00969 | .02073 | -.00150 | .00022 | .00310 | .00047 | .00039 | -.01514 | -.00033 | .00123 | .00417 |
| #2 | .00037 | -.00602 | -.01288 | -.00005 | .00013 | .00164 | .00057 | .00085 | -.05950 | -.00062 | .00127 | .00589 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | | | | | | .00476 |
| Low Limit | | | | | | | | | | | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9281.0** | **116360.** | **9564.1** |
| Stddev | 13.0 | 193. | 5.5 |
| %RSD | .13965 | .16548 | .05735 |
| #1 | 9290.1 | 116220. | 9560.2 |
| #2 | 9271.8 | 116500. | 9567.9 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 2:10:13 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01085** | **.10709** | **.01803** | **.10287** | **.01004** | **.00105** | **.12144** | **.20114** | **.00559** | **.01089** | **.01025** | **.01485** | **.09954** |
| Stddev | .00000 | .00002 | .00217 | .00015 | .00042 | .00000 | .00101 | .00358 | .00007 | .00010 | .00000 | .00039 | .00275 |
| %RSD | .00750 | .02206 | 12.029 | .14122 | 4.1703 | .24064 | .83173 | 1.7798 | 1.2827 | .92336 | .01737 | 2.6041 | 2.7600 |
| #1 | .01085 | .10707 | .01649 | .10298 | .00975 | .00105 | .12072 | .20367 | .00554 | .01096 | .01025 | .01457 | .10148 |
| #2 | .01085 | .10711 | .01956 | .10277 | .01034 | .00105 | .12215 | .19861 | .00564 | .01082 | .01025 | .01512 | .09760 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1492** | **.01250** | **.20508** | **.01033** | **.01960** | **1.1774** | **.04257** | **3.0067** | **.00856** | **.00448** | **.00734** | **.01646** | **.50268** |
| Stddev | .0269 | .00326 | .00123 | .00004 | .00004 | .0080 | .00034 | .0142 | .00061 | .00169 | .00024 | .00278 | .00972 |
| %RSD | .85328 | 26.104 | .60148 | .42884 | .20883 | .67512 | .80999 | .47134 | 7.1405 | 37.782 | 3.3284 | 16.879 | 1.9335 |
| #1 | 3.1302 | .01019 | .20596 | .01036 | .01957 | 1.1831 | .04233 | 2.9967 | .00812 | .00568 | .00751 | .01450 | .49581 |
| #2 | 3.1682 | .01480 | .20421 | .01030 | .01963 | 1.1718 | .04282 | 3.0167 | .00899 | .00329 | .00717 | .01842 | .50956 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0757** | **.10119** | **.01029** | **.01526** | **.01040** | **.01696** | F **.02588** | **.00915** | **.02103** | **.01752** |
| Stddev | .0208 | .00024 | .00004 | .00043 | .00010 | .00049 | .01189 | .00046 | .00013 | .00003 |
| %RSD | 1.9335 | .24203 | .43040 | 2.8485 | .96347 | 2.8997 | 45.949 | 5.0280 | .64135 | .17090 |
| #1 | 1.0610 | .10102 | .01026 | .01557 | .01047 | .01730 | .01747 | .00947 | .02113 | .01754 |
| #2 | 1.0905 | .10137 | .01032 | .01495 | .01033 | .01661 | .03428 | .00882 | .02094 | .01750 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9475.2** | **118150.** | **9748.9** |
| Stddev | 9.5 | 4. | 81.7 |
| %RSD | .10051 | .00344 | .83799 |
| #1 | 9468.4 | 118150. | 9806.6 |
| #2 | 9481.9 | 118150. | 9691.1 |

Sample Name: mb 280-187266/1-a  Acquired: 8/16/2013 2:12:31  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.00251** | **.00033** | **.00177** | **.00004** | **-.00005** | **.00455** | **.00108** | **.00026** | **.00014** |
| Stddev | .00027 | .00002 | .00045 | .00105 | .00002 | .00005 | .00087 | .00124 | .00007 | .00003 |
| %RSD | 121.90 | .84772 | 138.68 | 59.288 | 44.761 | 104.82 | 19.182 | 114.89 | 28.195 | 20.116 |
| #1 | .00003 | .00252 | .00001 | .00251 | .00006 | -.00001 | .00393 | .00020 | .00031 | .00012 |
| #2 | .00041 | .00249 | .00065 | .00103 | .00003 | -.00008 | .00517 | .00196 | .00021 | .00015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00001** | **-.00084** | **.00861** | **.08827** | **.00381** | **.00361** | **.00011** | **-.00003** | **.13255** | **.00035** |
| Stddev | .00010 | .00070 | .00184 | .04308 | .00142 | .00118 | .00001 | .00003 | .01086 | .00035 |
| %RSD | 758.34 | 83.514 | 21.409 | 48.805 | 37.343 | 32.654 | 10.915 | 108.13 | 8.1930 | 99.530 |
| #1 | -.00006 | -.00034 | .00730 | .11873 | .00280 | .00278 | .00012 | -.00005 | .12487 | .00060 |
| #2 | .00009 | -.00133 | .00991 | .05780 | .00482 | .00445 | .00010 | -.00001 | .14023 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00140** | **-.00124** | **.00804** | **-.00012** | **.00033** | **-.00065** | **-.00139** | **-.00069** | **-.00001** | **.00219** |
| Stddev | .00012 | .00016 | .00167 | .00059 | .00019 | .01783 | .03815 | .00003 | .00004 | .00129 |
| %RSD | 8.7594 | 12.640 | 20.716 | 515.03 | 57.777 | 2742.3 | 2742.3 | 4.1313 | 432.29 | 58.757 |
| #1 | .00132 | -.00113 | .00686 | .00030 | .00047 | .01195 | .02558 | -.00071 | -.00004 | .00128 |
| #2 | .00149 | -.00135 | .00922 | -.00054 | .00020 | -.01325 | -.02836 | -.00067 | .00002 | .00310 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00018** | **.00098** | **-.02761** | **-.00053** | **.00296** | **.00524** |
| Stddev | .00011 | .00022 | .02950 | .00002 | .00028 | .00040 |
| %RSD | 63.724 | 22.846 | 106.87 | 3.8098 | 9.6021 | 7.6952 |
| #1 | .00026 | .00114 | -.04847 | -.00051 | .00276 | .00552 |
| #2 | .00010 | .00083 | -.00674 | -.00054 | .00316 | .00495 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9494.1** | **118670.** | **9803.2** |
| Stddev | 38.9 | 66. | 44.7 |
| %RSD | .40969 | .05597 | .45568 |
| #1 | 9466.6 | 118720. | 9771.7 |
| #2 | 9521.6 | 118630. | 9834.8 |

Sample Name: lcs 280-187266/2-a  Acquired: 8/16/2013 2:14:48  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04840** | **1.9098** | **1.0201** | **1.0180** | **2.0170** | **.04931** | **2.1221** | **49.314** | **.10696** | **.49366** |
| Stddev | .00028 | .0034 | .0034 | .0011 | .0028 | .00026 | .0042 | .081 | .00001 | .00058 |
| %RSD | .57515 | .17784 | .33559 | .10448 | .13738 | .53252 | .19809 | .16429 | .01119 | .11835 |
| #1 | .04860 | 1.9074 | 1.0225 | 1.0172 | 2.0150 | .04912 | 2.1251 | 49.257 | .10695 | .49324 |
| #2 | .04821 | 1.9122 | 1.0177 | 1.0187 | 2.0189 | .04949 | 2.1191 | 49.372 | .10697 | .49407 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19872** | **.25301** | **1.0115** | **50.023** | **.96135** | **47.464** | **.48484** | **1.0056** | **51.988** | **.49163** |
| Stddev | .00018 | .00165 | .0036 | .125 | .00337 | .073 | .00036 | .0016 | .196 | .00010 |
| %RSD | .08922 | .65114 | .35294 | .24983 | .35020 | .15426 | .07420 | .15921 | .37769 | .02027 |
| #1 | .19884 | .25185 | 1.0141 | 49.935 | .95897 | 47.413 | .48458 | 1.0068 | 51.849 | .49156 |
| #2 | .19859 | .25418 | 1.0090 | 50.112 | .96373 | 47.516 | .48509 | 1.0045 | 52.126 | .49170 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.253** | **.49520** | **-.00446** | **.49588** | **2.0142** | **9.8327** | **21.042** | **1.9823** | **1.0079** | **.95742** |
| Stddev | .006 | .00122 | .00056 | .00131 | .0076 | .0231 | .049 | .0002 | .0006 | .00329 |
| %RSD | .05420 | .24691 | 12.480 | .26484 | .37943 | .23491 | .23491 | .01135 | .05647 | .34349 |
| #1 | 10.249 | .49433 | -.00406 | .49495 | 2.0088 | 9.8490 | 21.077 | 1.9825 | 1.0075 | .95509 |
| #2 | 10.257 | .49606 | -.00485 | .49681 | 2.0196 | 9.8163 | 21.007 | 1.9822 | 1.0083 | .95974 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99690** | **1.9630** | **2.0976** | **.50087** | **.46928** | **.51126** |
| Stddev | .00077 | .0011 | .0321 | .00015 | .00208 | .00305 |
| %RSD | .07761 | .05815 | 1.5284 | .03061 | .44262 | .59634 |
| #1 | .99636 | 1.9638 | 2.0749 | .50076 | .47075 | .50911 |
| #2 | .99745 | 1.9622 | 2.1202 | .50098 | .46781 | .51342 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9099.0** | **112940.** | **9727.7** |
| Stddev | 23.9 | 385. | 57.6 |
| %RSD | .26295 | .34057 | .59213 |
| #1 | 9115.9 | 112670. | 9768.4 |
| #2 | 9082.1 | 113220. | 9687.0 |

Sample Name: 280-45456-c-1-d  Acquired: 8/16/2013 2:16:55  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.69757** | **.00062** | **.00824** | **.02994** | **.00014** | **.00301** | **13.685** | **.00004** | **.00020** |
| Stddev | .00026 | .00045 | .00076 | .00006 | .00066 | .00011 | .00053 | .046 | .00035 | .00006 |
| %RSD | 78.735 | .06501 | 122.89 | .66956 | 2.2169 | 82.566 | 17.517 | .33305 | 868.92 | 31.629 |
| #1 | .00015 | .69789 | .00008 | .00820 | .02947 | .00022 | .00264 | 13.652 | -.00021 | .00025 |
| #2 | .00051 | .69725 | .00115 | .00828 | .03041 | .00006 | .00338 | 13.717 | .00029 | .00016 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00083** | **.00215** | **.48236** | **.88255** | **.00617** | **1.5398** | **.02560** | **.00241** | **3.4430** | **.00097** |
| Stddev | .00014 | .00020 | .00120 | .04172 | .00165 | .0023 | .00008 | .00011 | .0105 | .00016 |
| %RSD | 17.231 | 9.0969 | .24959 | 4.7276 | 26.775 | .15223 | .33026 | 4.4908 | .30517 | 16.875 |
| #1 | .00073 | .00228 | .48151 | .85304 | .00500 | 1.5414 | .02566 | .00249 | 3.4356 | .00109 |
| #2 | .00093 | .00201 | .48321 | .91205 | .00733 | 1.5381 | .02554 | .00233 | 3.4504 | .00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03068** | **-.00050** | **1.1757** | **-.00235** | **.00028** | **5.2813** | **11.302** | **-.00050** | **.11364** | **.00151** |
| Stddev | .00081 | .00055 | .0078 | .00077 | .00140 | .0192 | .041 | .00030 | .00043 | .00152 |
| %RSD | 2.6337 | 109.84 | .66429 | 32.616 | 493.67 | .36281 | .36281 | 58.993 | .38079 | 100.37 |
| #1 | .03011 | -.00011 | 1.1701 | -.00289 | .00127 | 5.2948 | 11.331 | -.00029 | .11333 | .00259 |
| #2 | .03125 | -.00089 | 1.1812 | -.00181 | -.00070 | 5.2677 | 11.273 | -.00072 | .11394 | .00044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02415** | **.00059** | **-.02145** | **.00083** | **.00710** | **.00638** |
| Stddev | .00005 | .00105 | .00960 | .00007 | .00024 | .00026 |
| %RSD | .22124 | 177.83 | 44.740 | 8.5768 | 3.4457 | 4.0538 |
| #1 | .02418 | -.00015 | -.01467 | .00078 | .00727 | .00619 |
| #2 | .02411 | .00133 | -.02824 | .00088 | .00693 | .00656 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9558.7** | **119650.** | **9931.0** |
| Stddev | 10.4 | 171. | 23.1 |
| %RSD | .10931 | .14258 | .23235 |
| #1 | 9551.3 | 119530. | 9914.7 |
| #2 | 9566.1 | 119780. | 9947.3 |

Sample Name: 280-45456-c-1-dSD@5 Acquired: 8/16/2013 2:19:14 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187266 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00030** | **.22769** | **.00000** | **.00408** | **.00836** | **.00004** | **.00220** | **3.8820** | **.00007** | **.00006** |
| Stddev | .00078 | .00010 | .00172 | .00010 | .00042 | .00004 | .00017 | .0262 | .00004 | .00000 |
| %RSD | 260.34 | .04315 | 951690. | 2.4727 | 5.0584 | 97.952 | 7.8192 | .67429 | 53.864 | 8.2610 |
| #1 | -.00025 | .22776 | -.00122 | .00401 | .00807 | .00006 | .00207 | 3.8635 | .00005 | .00005 |
| #2 | .00085 | .22762 | .00122 | .00415 | .00866 | .00001 | .00232 | 3.9005 | .00010 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00015** | **-.00041** | **.14259** | **.26116** | **.00131** | **.43400** | **.00733** | **.00057** | **1.0469** | **.00025** |
| Stddev | .00005 | .00051 | .00467 | .02946 | .00249 | .00139 | .00004 | .00031 | .0110 | .00014 |
| %RSD | 31.026 | 122.89 | 3.2785 | 11.281 | 190.26 | .31944 | .58362 | 55.442 | 1.0524 | 55.689 |
| #1 | .00019 | -.00077 | .13929 | .28199 | -.00045 | .43498 | .00736 | .00034 | 1.0391 | .00015 |
| #2 | .00012 | -.00005 | .14590 | .24032 | .00306 | .43302 | .00730 | .00079 | 1.0547 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00882** | **-.00096** | **.32176** | **-.00269** | **.00367** | **1.5112** | **3.2340** | **-.00087** | **.03207** | **.00172** |
| Stddev | .00128 | .00009 | .00311 | .00314 | .00270 | .0272 | .0582 | .00008 | .00020 | .00050 |
| %RSD | 14.534 | 9.5777 | .96713 | 116.84 | 73.505 | 1.8007 | 1.8007 | 9.4301 | .63700 | 28.847 |
| #1 | .00972 | -.00103 | .32396 | -.00491 | .00176 | 1.4920 | 3.1928 | -.00081 | .03192 | .00207 |
| #2 | .00791 | -.00090 | .31956 | -.00047 | .00558 | 1.5304 | 3.2752 | -.00093 | .03221 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00773** | **.00005** | **-.03141** | **-.00035** | **.00813** | **.00433** |
| Stddev | .00083 | .00068 | .01124 | .00069 | .00002 | .00070 |
| %RSD | 10.801 | 1510.3 | 35.792 | 196.58 | .25965 | 16.140 |
| #1 | .00714 | .00053 | -.03936 | .00014 | .00815 | .00384 |
| #2 | .00832 | -.00044 | -.02346 | -.00084 | .00812 | .00483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9450.0** | **118070.** | **9807.6** |
| Stddev | 17.1 | 150. | 72.4 |
| %RSD | .18107 | .12721 | .73825 |
| #1 | 9437.9 | 117970. | 9858.8 |
| #2 | 9462.1 | 118180. | 9756.4 |

Sample Name: 280-45456-c-1-e ms  Acquired: 8/16/2013 2:21:34  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03675** | **2.2769** | W **2.3967** | **.75307** | **.76591** | **1.5094** | **.03641** | F **1.5970** | **47.685** | **.07952** |
| Stddev | .00025 | .0008 | .0002 | .00109 | .00080 | .0014 | .00010 | .0014 | .022 | .00003 |
| %RSD | .69166 | .03653 | .01011 | .14524 | .10458 | .09515 | .27259 | .08426 | .04644 | .03773 |
| #1 | .03657 | 2.2763 | 2.3965 | .75229 | .76648 | 1.5104 | .03634 | 1.5961 | 47.701 | .07954 |
| #2 | .03693 | 2.2775 | 2.3968 | .75384 | .76534 | 1.5083 | .03648 | 1.5980 | 47.669 | .07950 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | | |
| Low Limit | | | 3.2000 | | | | | -.10000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36532** | **.14712** | **.18985** | **1.1526** | **37.608** | **.71202** | **36.354** | **.37996** | **.73894** | **41.069** |
| Stddev | .00049 | .00000 | .00045 | .0036 | .117 | .00334 | .028 | .00075 | .00028 | .082 |
| %RSD | .13486 | .00293 | .23693 | .30990 | .31110 | .46970 | .07745 | .19780 | .03780 | .20055 |
| #1 | .36567 | .14711 | .18953 | 1.1501 | 37.525 | .71439 | 36.335 | .37943 | .73874 | 41.127 |
| #2 | .36498 | .14712 | .19016 | 1.1552 | 37.690 | .70966 | 36.374 | .38049 | .73913 | 41.011 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.36486** | W **7.6153** | **.36906** | **1.0413** | **.37250** | **1.5158** | **12.474** | **26.693** | **1.4704** | **.83744** |
| Stddev | .00073 | .0028 | .00175 | .0010 | .00152 | .0060 | .018 | .038 | .0039 | .00053 |
| %RSD | .19891 | .03718 | .47311 | .09356 | .40715 | .39680 | .14264 | .14264 | .26787 | .06362 |
| #1 | .36434 | 7.6173 | .36782 | 1.0419 | .37357 | 1.5115 | 12.461 | 26.666 | 1.4676 | .83782 |
| #2 | .36537 | 7.6133 | .37029 | 1.0406 | .37143 | 1.5200 | 12.486 | 26.720 | 1.4732 | .83707 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.0000 | | | | | | | | |
| Low Limit | | -1.0000 | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.71105** | **.75721** | **1.4956** | **1.5438** | **.36875** | **.34874** | **.37755** |
| Stddev | .00021 | .00084 | .0029 | .0166 | .00029 | .00151 | .00135 |
| %RSD | .02933 | .11124 | .19682 | 1.0767 | .07864 | .43281 | .35684 |
| #1 | .71120 | .75662 | 1.4977 | 1.5556 | .36854 | .34981 | .37850 |
| #2 | .71091 | .75781 | 1.4935 | 1.5321 | .36895 | .34767 | .37659 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9278.7** | **114880.** | **9925.8** |
| Stddev | 37.1 | 191. | 28.3 |
| %RSD | .39970 | .16651 | .28547 |
| #1 | 9304.9 | 115020. | 9945.9 |
| #2 | 9252.4 | 114750. | 9905.8 |

Sample Name: 280-45456-c-1-f msd  Acquired: 8/16/2013 2:23:40  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03811** | **2.3237** | W **2.4415** | **.77570** | **.78724** | **1.5464** | **.03736** | F **1.6368** | **48.746** | **.08157** |
| Stddev | .00032 | .0031 | .0026 | .00089 | .00019 | .0015 | .00012 | .0022 | .089 | .00020 |
| %RSD | .83793 | .13293 | .10582 | .11468 | .02395 | .09815 | .33268 | .13491 | .18279 | .24939 |
| #1 | .03834 | 2.3259 | 2.4433 | .77633 | .78737 | 1.5453 | .03727 | 1.6383 | 48.683 | .08172 |
| #2 | .03789 | 2.3215 | 2.4397 | .77507 | .78711 | 1.5475 | .03745 | 1.6352 | 48.809 | .08143 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass |
| High Limit | | | 500.00 | | | | | .10000 | | |
| Low Limit | | | 3.2000 | | | | | -.10000 | | |

| Elem | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 228.616 {447} | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37592** | **.15132** | **.19547** | **1.1807** | **38.692** | **.73293** | **37.263** | **.39011** | **.75996** | **42.347** |
| Stddev | .00036 | .00022 | .00013 | .0031 | .101 | .00258 | .002 | .00025 | .00121 | .082 |
| %RSD | .09513 | .14215 | .06820 | .26041 | .26118 | .35137 | .00439 | .06412 | .15936 | .19346 |
| #1 | .37618 | .15117 | .19538 | 1.1829 | 38.620 | .73111 | 37.264 | .38994 | .76081 | 42.289 |
| #2 | .37567 | .15147 | .19556 | 1.1785 | 38.763 | .73475 | 37.262 | .39029 | .75910 | 42.405 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.37488** | W **7.8323** | **.37814** | **1.0433** | **.37998** | **1.5490** | **12.662** | **27.097** | **1.5070** | **.85986** |
| Stddev | .00005 | .0060 | .00085 | .0028 | .00185 | .0045 | .002 | .004 | .0003 | .00218 |
| %RSD | .01291 | .07658 | .22366 | .27092 | .48724 | .28756 | .01470 | .01470 | .01637 | .25323 |
| #1 | .37484 | 7.8365 | .37874 | 1.0413 | .38128 | 1.5459 | 12.661 | 27.094 | 1.5068 | .85832 |
| #2 | .37491 | 7.8280 | .37754 | 1.0453 | .37867 | 1.5522 | 12.663 | 27.100 | 1.5072 | .86140 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 2.0000 | | | | | | | | |
| Low Limit | | -1.0000 | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72850** | **.78062** | **1.5237** | **1.5839** | **.38188** | **.35912** | **.38890** |
| Stddev | .00092 | .00068 | .0010 | .0378 | .00201 | .00018 | .00240 |
| %RSD | .12693 | .08727 | .06324 | 2.3887 | .52708 | .04889 | .61796 |
| #1 | .72915 | .78110 | 1.5230 | 1.5571 | .38045 | .35900 | .38720 |
| #2 | .72784 | .78014 | 1.5243 | 1.6106 | .38330 | .35925 | .39060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9222.6** | **114310.** | **9861.9** |
| Stddev | 2.0 | 207. | 6.7 |
| %RSD | .02163 | .18100 | .06777 |
| #1 | 9224.0 | 114450. | 9857.1 |
| #2 | 9221.2 | 114160. | 9866.6 |

Sample Name: 280-45456-c-2-b  Acquired: 8/16/2013 2:25:47  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00004** | **.50485** | **.00188** | **.00764** | **.02955** | **.00008** | **.00545** | **13.245** | **.00027** | **.00041** |
| Stddev | .00042 | .00063 | .00349 | .00014 | .00009 | .00010 | .00231 | .047 | .00026 | .00002 |
| %RSD | 1016.0 | .12532 | 186.23 | 1.8019 | .30120 | 122.84 | 42.281 | .35309 | 96.172 | 3.8900 |
| #1 | -.00034 | .50530 | -.00059 | .00774 | .02949 | .00001 | .00708 | 13.211 | .00045 | .00040 |
| #2 | .00026 | .50441 | .00435 | .00754 | .02962 | .00015 | .00382 | 13.278 | .00009 | .00043 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00051** | **.00060** | **.62565** | **.95320** | **.00556** | **2.2924** | **.03048** | **.00174** | **3.8519** | **.00084** |
| Stddev | .00012 | .00010 | .00614 | .02874 | .00073 | .0043 | .00004 | .00026 | .0147 | .00002 |
| %RSD | 24.065 | 16.956 | .98066 | 3.0149 | 13.158 | .18980 | .14380 | 14.880 | .38200 | 2.1005 |
| #1 | .00060 | .00053 | .62131 | .97352 | .00504 | 2.2893 | .03051 | .00156 | 3.8623 | .00083 |
| #2 | .00043 | .00067 | .62999 | .93287 | .00607 | 2.2954 | .03045 | .00193 | 3.8414 | .00085 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03147** | **-.00082** | **2.5910** | **-.00408** | **.00319** | **4.2852** | **9.1703** | **-.00172** | **.11577** | **.00290** |
| Stddev | .00034 | .00001 | .0090 | .00064 | .00168 | .0349 | .0747 | .00049 | .00077 | .00106 |
| %RSD | 1.0906 | 1.7853 | .34599 | 15.750 | 52.804 | .81487 | .81487 | 28.278 | .66345 | 36.664 |
| #1 | .03172 | -.00083 | 2.5973 | -.00362 | .00438 | 4.2605 | 9.1175 | -.00138 | .11523 | .00215 |
| #2 | .03123 | -.00081 | 2.5846 | -.00453 | .00200 | 4.3099 | 9.2232 | -.00206 | .11632 | .00365 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01349** | **.00199** | **-.04692** | **.00062** | **.00348** | **.00450** |
| Stddev | .00007 | .00010 | .00113 | .00024 | .00007 | .00029 |
| %RSD | .49483 | 4.8710 | 2.4148 | 39.429 | 1.9863 | 6.3791 |
| #1 | .01354 | .00192 | -.04612 | .00044 | .00353 | .00470 |
| #2 | .01345 | .00205 | -.04772 | .00079 | .00343 | .00430 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9579.6** | **119000.** | **9961.9** |
| Stddev | 2.1 | 444. | 107.6 |
| %RSD | .02150 | .37296 | 1.0797 |
| #1 | 9578.1 | 118680. | 10038. |
| #2 | 9581.0 | 119310. | 9885.8 |

Sample Name: 280-45456-c-3-b  Acquired: 8/16/2013 2:28:04  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00036** | **1.0061** | **-.00163** | **.00841** | **.04037** | **.00013** | **.00548** | **15.561** | **.00037** | **.00067** |
| Stddev | .00024 | .0003 | .00042 | .00046 | .00000 | .00001 | .00253 | .011 | .00002 | .00002 |
| %RSD | 67.709 | .03354 | 25.586 | 5.5183 | .01024 | 5.2969 | 46.183 | .06873 | 4.7166 | 3.3578 |
| #1 | .00019 | 1.0064 | -.00193 | .00874 | .04037 | .00014 | .00727 | 15.554 | .00038 | .00065 |
| #2 | .00053 | 1.0059 | -.00134 | .00808 | .04036 | .00013 | .00369 | 15.569 | .00035 | .00068 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **.00125** | **1.2400** | **1.2440** | **.00299** | **2.8778** | **.08714** | **.00091** | **4.7517** | **.00122** |
| Stddev | .00007 | .00035 | .0056 | .0112 | .00081 | .0041 | .00001 | .00007 | .0012 | .00002 |
| %RSD | 7.6420 | 27.697 | .44990 | .90394 | 26.946 | .14129 | .00712 | 7.1624 | .02569 | 1.4829 |
| #1 | .00100 | .00149 | 1.2440 | 1.2519 | .00356 | 2.8807 | .08714 | .00086 | 4.7525 | .00121 |
| #2 | .00089 | .00100 | 1.2361 | 1.2360 | .00242 | 2.8749 | .08713 | .00095 | 4.7508 | .00123 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05828** | **-.00088** | **3.2901** | **-.00433** | **.00207** | **5.4536** | **11.671** | **-.00100** | **.14406** | **.00063** |
| Stddev | .00187 | .00090 | .0058 | .00236 | .00301 | .0161 | .035 | .00024 | .00010 | .00116 |
| %RSD | 3.2012 | 102.05 | .17575 | 54.524 | 145.26 | .29557 | .29557 | 23.508 | .07085 | 183.20 |
| #1 | .05696 | -.00024 | 3.2860 | -.00600 | .00419 | 5.4650 | 11.695 | -.00084 | .14413 | -.00019 |
| #2 | .05960 | -.00151 | 3.2942 | -.00266 | -.00006 | 5.4422 | 11.646 | -.00117 | .14399 | .00145 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02472** | **.00161** | **-.00459** | **.00194** | **.00618** | **.00606** |
| Stddev | .00032 | .00078 | .03464 | .00017 | .00025 | .00255 |
| %RSD | 1.2953 | 48.379 | 754.46 | 8.5085 | 3.9763 | 42.050 |
| #1 | .02494 | .00106 | .01990 | .00206 | .00635 | .00786 |
| #2 | .02449 | .00217 | -.02908 | .00182 | .00600 | .00426 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9562.8** | **118660.** | **10009.** |
| Stddev | .7 | 176. | 43. |
| %RSD | .00752 | .14814 | .42595 |
| #1 | 9562.2 | 118790. | 9978.5 |
| #2 | 9563.3 | 118540. | 10039. |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 2:30:21 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **49.594** | **.00286** | **.00349** | **.00052** | **.00002** | **1.0304** | **-.00484** | **.00019** | **.00034** | **.00000** | **.00211** | **49.366** |
| Stddev | .00001 | .308 | .00151 | .00084 | .00003 | .00003 | .0011 | .00195 | .00007 | .00002 | .0001 | .00012 | .231 |
| %RSD | 1.0116 | .62095 | 52.749 | 24.135 | 5.8046 | 193.17 | .10927 | 40.250 | 39.824 | 6.7967 | 2052.7 | 5.6025 | .46824 |
| #1 | .00069 | 49.376 | .00179 | .00289 | .00050 | .00004 | 1.0312 | -.00622 | .00013 | .00036 | .00006 | .00203 | 49.203 |
| #2 | .00068 | 49.811 | .00393 | .00408 | .00054 | -.00001 | 1.0296 | -.00347 | .00024 | .00033 | -.00007 | .00219 | 49.530 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11538** | **.00121** | **-.00115** | **.00012** | **.00002** | **254.95** | **.00096** | **.00237** | **-.00053** | **5.1370** | **-.00092** | **-.00205** | **-.00075** |
| Stddev | .03952 | .00098 | .00300 | .00006 | .00008 | 1.52 | .00005 | .00048 | .00048 | .0102 | .00090 | .00061 | .00818 |
| %RSD | 34.254 | 80.587 | 260.93 | 52.277 | 522.96 | .59689 | 4.8470 | 20.409 | 90.215 | .19928 | 98.385 | 29.905 | 1097.2 |
| #1 | .08743 | .00191 | .00097 | .00007 | -.00004 | 253.88 | .00100 | .00203 | -.00087 | 5.1297 | -.00156 | -.00162 | -.00653 |
| #2 | .14332 | .00052 | -.00327 | .00016 | .00008 | 256.03 | .00093 | .00271 | -.00019 | 5.1442 | -.00028 | -.00249 | .00504 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00160** | **-.00151** | **.00050** | **4.8826** | **.00084** | **.00072** | **10.265** | **.00054** | **.00008** | **.02640** |
| Stddev | .01751 | .00036 | .00014 | .0002 | .00014 | .00032 | .018 | .00050 | .00069 | .00106 |
| %RSD | 1097.2 | 24.189 | 28.575 | .00347 | 16.562 | 44.933 | .17197 | 92.645 | 808.09 | 4.0289 |
| #1 | -.01398 | -.00177 | .00040 | 4.8825 | .00074 | .00095 | 10.277 | .00019 | -.00040 | .02565 |
| #2 | .01079 | -.00125 | .00060 | 4.8827 | .00094 | .00049 | 10.252 | .00090 | .00057 | .02715 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9053.3** | **110550.** | **9678.9** |
| Stddev | 24.2 | 355. | 85.9 |
| %RSD | .26679 | .32130 | .88746 |
| #1 | 9036.2 | 110810. | 9739.7 |
| #2 | 9070.3 | 110300. | 9618.2 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 2:32:44 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49627** | **.51039** | **1.0065** | **.51557** | **.50048** | **.49471** | **.00313** | **4.9844** | **.51226** | **.50886** | **.49965** | **.50633** | **2.4991** |
| Stddev | .00096 | .00075 | .0074 | .00081 | .00129 | .00147 | .00015 | .0020 | .00042 | .00008 | .00092 | .00035 | .0026 |
| %RSD | .19330 | .14776 | .73456 | .15777 | .25803 | .29672 | 4.8427 | .04037 | .08266 | .01522 | .18344 | .06916 | .10315 |
| #1 | .49695 | .50986 | 1.0117 | .51614 | .49956 | .49368 | .00324 | 4.9830 | .51256 | .50892 | .50030 | .50608 | 2.4973 |
| #2 | .49560 | .51092 | 1.0012 | .51499 | .50139 | .49575 | .00303 | 4.9858 | .51196 | .50881 | .49900 | .50658 | 2.5009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.606** | **.96408** | **19.085** | **.49290** | **.50046** | **5.1601** | **.50526** | **1.0154** | **1.0158** | **.00198** | **1.0377** | **1.0241** | **4.9048** |
| Stddev | .145 | .00351 | .023 | .00077 | .00084 | .0180 | .00008 | .0037 | .0016 | .00251 | .0102 | .0014 | .0361 |
| %RSD | .29282 | .36415 | .11900 | .15657 | .16820 | .34807 | .01643 | .36493 | .16140 | 126.74 | .98688 | .13918 | .73660 |
| #1 | 49.503 | .96159 | 19.069 | .49235 | .50106 | 5.1474 | .50532 | 1.0180 | 1.0170 | .00376 | 1.0450 | 1.0231 | 4.9303 |
| #2 | 49.708 | .96656 | 19.101 | .49344 | .49987 | 5.1728 | .50520 | 1.0128 | 1.0147 | .00021 | 1.0305 | 1.0251 | 4.8792 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.496** | **.99980** | **.50431** | **-.00440** | **.49729** | **1.0380** | **-.01194** | **.49727** | **.48302** | **.50606** |
| Stddev | .077 | .00540 | .00137 | .00081 | .00018 | .0051 | .02772 | .00082 | .00015 | .00035 |
| %RSD | .73660 | .54037 | .27138 | 18.397 | .03586 | .48887 | 232.10 | .16538 | .03157 | .06933 |
| #1 | 10.551 | 1.0036 | .50334 | -.00383 | .49742 | 1.0416 | .00766 | .49785 | .48312 | .50581 |
| #2 | 10.442 | .99598 | .50527 | -.00497 | .49717 | 1.0344 | -.03154 | .49669 | .48291 | .50631 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9337.4** | **115400.** | **9949.5** |
| Stddev | 14.7 | 205. | 40.5 |
| %RSD | .15782 | .17744 | .40727 |
| #1 | 9347.8 | 115550. | 9920.8 |
| #2 | 9326.9 | 115260. | 9978.1 |

Sample Name: CCB  Acquired: 8/16/2013 2:34:53  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00129** | **.00101** | **.00193** | **-.00027** | **.00008** | **.00440** | **-.00128** | **.00014** | **-.00001** | **-.00006** | **-.00105** |
| Stddev | .00011 | .00044 | .00012 | .00016 | .00040 | .00000 | .00052 | .00120 | .00012 | .00026 | .00003 | .00029 |
| %RSD | 66.669 | 34.076 | 12.387 | 8.1634 | 145.82 | 5.8713 | 11.720 | 94.135 | 85.926 | 3268.3 | 46.617 | 27.546 |
| #1 | .00023 | .00160 | .00110 | .00182 | -.00056 | .00008 | .00404 | -.00043 | .00022 | -.00019 | -.00004 | -.00084 |
| #2 | .00008 | .00098 | .00092 | .00204 | .00001 | .00007 | .00477 | -.00212 | .00005 | .00018 | -.00008 | -.00125 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00223** | **.10471** | **.00201** | **.00293** | **.00006** | **.00084** | W **.15547** | **.00037** | **.00098** | **-.00094** | **.00363** | W **.00325** |
| Stddev | .00134 | .00738 | .00224 | .00068 | .00002 | .00028 | .02401 | .00028 | .00024 | .00082 | .00068 | .00168 |
| %RSD | 60.335 | 7.0444 | 111.39 | 23.275 | 26.262 | 33.290 | 15.441 | 75.926 | 24.535 | 87.756 | 18.684 | 51.596 |
| #1 | .00318 | .10992 | .00359 | .00342 | .00005 | .00064 | .13850 | .00057 | .00115 | -.00152 | .00411 | .00207 |
| #2 | .00128 | .09949 | .00043 | .00245 | .00008 | .00103 | .17245 | .00017 | .00081 | -.00035 | .00315 | .00444 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00147** | **-.00229** | **-.00490** | **-.00069** | **.00014** | **.00139** | **.00049** | **.00131** | **-.03550** | **-.00051** | **.00107** | W **.00470** |
| Stddev | .00140 | .00215 | .00460 | .00029 | .00003 | .00049 | .00021 | .00028 | .05765 | .00022 | .00021 | .00053 |
| %RSD | 95.421 | 93.967 | 93.967 | 42.745 | 19.970 | 35.340 | 42.778 | 21.041 | 162.41 | 43.201 | 20.027 | 11.364 |
| #1 | .00246 | -.00381 | -.00815 | -.00090 | .00016 | .00105 | .00063 | .00112 | .00527 | -.00036 | .00122 | .00432 |
| #2 | .00048 | -.00077 | -.00164 | -.00048 | .00012 | .00174 | .00034 | .00151 | -.07626 | -.00067 | .00092 | .00508 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9356.9** | **117060.** | **9738.4** |
| Stddev | 14.9 | 132. | 10.9 |
| %RSD | .15948 | .11295 | .11171 |
| #1 | 9346.4 | 116960. | 9730.7 |
| #2 | 9367.5 | 117150. | 9746.1 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 2:37:10 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01049** | **.11066** | **.01576** | **.10305** | **.00980** | **.00107** | **.12280** | **.20502** | **.00554** | **.01088** | **.01020** | **.01526** | **.10265** |
| Stddev | .00026 | .00050 | .00171 | .00046 | .00031 | .00004 | .00042 | .00363 | .00008 | .00002 | .00001 | .00073 | .00222 |
| %RSD | 2.4742 | .44862 | 10.824 | .44643 | 3.1949 | 3.3157 | .33944 | 1.7692 | 1.4572 | .20993 | .05322 | 4.7725 | 2.1585 |
| #1 | .01067 | .11101 | .01696 | .10338 | .00958 | .00104 | .12309 | .20246 | .00548 | .01086 | .01019 | .01474 | .10109 |
| #2 | .01031 | .11031 | .01455 | .10273 | .01002 | .00109 | .12250 | .20759 | .00559 | .01089 | .01020 | .01577 | .10422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1208** | **.00977** | **.20526** | **.01032** | **.01978** | **1.1750** | **.04265** | **3.0125** | **.00823** | **.00234** | **.00953** | **.01641** | **.48249** |
| Stddev | .0002 | .00057 | .00163 | .00000 | .00007 | .0099 | .00030 | .0036 | .00022 | .00105 | .00105 | .00273 | .02735 |
| %RSD | .00557 | 5.8597 | .79348 | .04392 | .37042 | .84132 | .71215 | .12065 | 2.7293 | 44.955 | 10.979 | 16.659 | 5.6693 |
| #1 | 3.1209 | .00936 | .20642 | .01032 | .01984 | 1.1680 | .04286 | 3.0151 | .00807 | .00309 | .00879 | .01835 | .46315 |
| #2 | 3.1206 | .01017 | .20411 | .01033 | .01973 | 1.1820 | .04243 | 3.0099 | .00839 | .00160 | .01027 | .01448 | .50183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0325** | **.10183** | **.01046** | **.01358** | **.01035** | **.01846** | **.04620** | **.00948** | **.02075** | F **.02116** |
| Stddev | .0585 | .00025 | .00007 | .00037 | .00034 | .00128 | .02198 | .00021 | .00016 | .00082 |
| %RSD | 5.6693 | .24474 | .65633 | 2.7536 | 3.2987 | 6.9574 | 47.567 | 2.2233 | .78627 | 3.8743 |
| #1 | .99113 | .10165 | .01041 | .01385 | .01059 | .01936 | .06174 | .00963 | .02087 | .02058 |
| #2 | 1.0739 | .10201 | .01051 | .01332 | .01011 | .01755 | .03066 | .00933 | .02064 | .02174 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9514.2** | **119380.** | **9851.4** |
| Stddev | 24.5 | 56. | 38.1 |
| %RSD | .25763 | .04698 | .38702 |
| #1 | 9531.6 | 119420. | 9878.4 |
| #2 | 9496.9 | 119340. | 9824.4 |

Sample Name: 280-45456-c-4-b  Acquired: 8/16/2013 2:39:28  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00022** | **.28325** | **.00127** | **.05298** | **.08643** | **.00003** | **.00382** | **51.295** | **.00044** | **.00064** |
| Stddev | .00000 | .00104 | .00114 | .00045 | .00019 | .00008 | .00167 | .108 | .00024 | .00005 |
| %RSD | 1.2161 | .36616 | 89.775 | .85309 | .21918 | 275.37 | 43.768 | .21131 | 55.863 | 8.0829 |
| #1 | .00022 | .28398 | .00208 | .05330 | .08656 | .00009 | .00264 | 51.372 | .00026 | .00060 |
| #2 | .00022 | .28252 | .00046 | .05266 | .08629 | -.00003 | .00500 | 51.219 | .00061 | .00067 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **.00111** | **.44803** | **2.4980** | **.00415** | **18.631** | **.55482** | **.00139** | **161.03** | **.00121** |
| Stddev | .00003 | .00039 | .00027 | .0088 | .00021 | .012 | .00040 | .00030 | .02 | .00000 |
| %RSD | 7.9841 | 35.439 | .05983 | .35233 | 4.9493 | .06538 | .07264 | 21.778 | .01452 | .34578 |
| #1 | .00043 | .00083 | .44822 | 2.4917 | .00401 | 18.623 | .55453 | .00161 | 161.01 | .00121 |
| #2 | .00039 | .00139 | .44784 | 2.5042 | .00430 | 18.640 | .55510 | .00118 | 161.04 | .00120 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07093** | **-.00201** | **26.965** | **-.00303** | **-.00008** | **5.6193** | **12.025** | **-.00121** | **1.1955** | **.00059** |
| Stddev | .00177 | .00031 | .013 | .00320 | .00074 | .0223 | .048 | .00044 | .0018 | .00073 |
| %RSD | 2.5019 | 15.243 | .04988 | 105.42 | 899.58 | .39750 | .39750 | 36.386 | .14740 | 123.78 |
| #1 | .06968 | -.00223 | 26.974 | -.00529 | -.00061 | 5.6351 | 12.059 | -.00090 | 1.1968 | .00007 |
| #2 | .07219 | -.00180 | 26.955 | -.00077 | .00044 | 5.6035 | 11.991 | -.00153 | 1.1943 | .00110 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00652** | **.00126** | **-.04986** | **.00110** | **.00468** | **.00534** |
| Stddev | .00034 | .00072 | .02369 | .00030 | .00051 | .00108 |
| %RSD | 5.2111 | 57.044 | 47.524 | 27.721 | 10.913 | 20.218 |
| #1 | .00676 | .00075 | -.03310 | .00088 | .00432 | .00457 |
| #2 | .00628 | .00177 | -.06661 | .00132 | .00504 | .00610 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9098.2** | **113240.** | **9805.2** |
| Stddev | 17.4 | 45. | 70.5 |
| %RSD | .19138 | .03941 | .71944 |
| #1 | 9085.9 | 113270. | 9755.3 |
| #2 | 9110.6 | 113200. | 9855.0 |

Sample Name: 280-45456-c-5-b  Acquired: 8/16/2013 2:41:45  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | **.19332** | **.00178** | **.01929** | **.08035** | **.00003** | **.00367** | **61.208** | **.00026** | **.00058** |
| Stddev | .00086 | .00068 | .00241 | .00056 | .00012 | .00001 | .00199 | .078 | .00008 | .00009 |
| %RSD | 202.35 | .35186 | 135.25 | 2.9062 | .14592 | 24.290 | 54.076 | .12744 | 30.179 | 15.794 |
| #1 | -.00018 | .19284 | .00349 | .01969 | .08026 | .00003 | .00227 | 61.153 | .00021 | .00052 |
| #2 | .00103 | .19380 | .00008 | .01889 | .08043 | .00004 | .00508 | 61.263 | .00032 | .00065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00025** | **.00131** | **.38463** | **3.1131** | **.00279** | **12.552** | **.22743** | **.00050** | **29.874** | **.00099** |
| Stddev | .00008 | .00016 | .00006 | .0461 | .00054 | .034 | .00011 | .00007 | .176 | .00010 |
| %RSD | 32.381 | 12.375 | .01557 | 1.4799 | 19.167 | .27260 | .04992 | 14.511 | .58765 | 10.480 |
| #1 | .00019 | .00120 | .38459 | 3.0805 | .00241 | 12.576 | .22751 | .00055 | 29.998 | .00091 |
| #2 | .00031 | .00142 | .38468 | 3.1457 | .00317 | 12.528 | .22735 | .00045 | 29.750 | .00106 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06358** | **-.00096** | **14.350** | **-.00324** | **-.00009** | **4.2322** | **9.0570** | **-.00098** | **.90221** | **.00158** |
| Stddev | .00043 | .00140 | .013 | .00131 | .00163 | .0178 | .0380 | .00031 | .00180 | .00355 |
| %RSD | .67047 | 144.87 | .09175 | 40.328 | 1902.2 | .41997 | .41997 | 31.896 | .19968 | 223.92 |
| #1 | .06328 | .00002 | 14.360 | -.00416 | -.00124 | 4.2448 | 9.0839 | -.00076 | .90093 | -.00092 |
| #2 | .06388 | -.00195 | 14.341 | -.00231 | .00107 | 4.2197 | 9.0301 | -.00120 | .90348 | .00409 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00459** | **.00117** | **-.03442** | **.00058** | **.00353** | **.00466** |
| Stddev | .00001 | .00043 | .00845 | .00082 | .00003 | .00017 |
| %RSD | .32016 | 36.498 | 24.552 | 142.18 | .96371 | 3.6404 |
| #1 | .00460 | .00087 | -.02844 | .00000 | .00351 | .00454 |
| #2 | .00458 | .00147 | -.04039 | .00116 | .00355 | .00478 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9257.5** | **116040.** | **9974.7** |
| Stddev | 42.7 | 159. | 51.2 |
| %RSD | .46112 | .13666 | .51294 |
| #1 | 9287.6 | 116150. | 10011. |
| #2 | 9227.3 | 115930. | 9938.5 |

Sample Name: 280-45456-c-6-b  Acquired: 8/16/2013 2:44:03  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.39716** | **.00140** | **.01157** | **.04729** | **.00001** | **.00380** | **27.894** | **.00020** | **.00008** |
| Stddev | .00057 | .00037 | .00161 | .00038 | .00048 | .00007 | .00048 | .003 | .00005 | .00012 |
| %RSD | 108.70 | .09256 | 115.19 | 3.2518 | 1.0180 | 1067.8 | 12.645 | .00979 | 26.511 | 144.72 |
| #1 | .00093 | .39742 | .00254 | .01184 | .04695 | -.00004 | .00346 | 27.892 | .00016 | .00000 |
| #2 | .00012 | .39690 | .00026 | .01131 | .04763 | .00006 | .00414 | 27.896 | .00024 | .00017 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00084** | **.54076** | **1.5090** | **.00134** | **6.6864** | **.03884** | **.00117** | **22.554** | **.00062** |
| Stddev | .00013 | .00003 | .00156 | .0799 | .00078 | .0003 | .00011 | .00018 | .032 | .00002 |
| %RSD | 26.592 | 3.2708 | .28893 | 5.2961 | 57.749 | .00441 | .28302 | 15.092 | .14208 | 2.6129 |
| #1 | .00040 | .00082 | .54187 | 1.4525 | .00189 | 6.6862 | .03892 | .00105 | 22.577 | .00061 |
| #2 | .00059 | .00085 | .53966 | 1.5655 | .00080 | 6.6866 | .03876 | .00130 | 22.532 | .00064 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02599** | **-.00108** | **8.7521** | **-.00316** | **-.00153** | **4.7462** | **10.157** | **-.00084** | **.36305** | **.00082** |
| Stddev | .00086 | .00017 | .0008 | .00121 | .00235 | .0145 | .031 | .00014 | .00039 | .00096 |
| %RSD | 3.3189 | 15.990 | .00974 | 38.202 | 153.74 | .30583 | .30583 | 16.928 | .10844 | 116.67 |
| #1 | .02660 | -.00121 | 8.7515 | -.00401 | .00013 | 4.7359 | 10.135 | -.00094 | .36277 | .00150 |
| #2 | .02538 | -.00096 | 8.7527 | -.00230 | -.00319 | 4.7565 | 10.179 | -.00074 | .36333 | .00014 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00838** | **.00074** | **-.03259** | **.00049** | **.00313** | **.00609** |
| Stddev | .00019 | .00004 | .02237 | .00038 | .00021 | .00091 |
| %RSD | 2.2259 | 4.7980 | 68.654 | 77.652 | 6.6183 | 14.931 |
| #1 | .00825 | .00077 | -.04840 | .00022 | .00328 | .00673 |
| #2 | .00851 | .00072 | -.01677 | .00076 | .00299 | .00544 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9436.0** | **117340.** | **9987.0** |
| Stddev | 4.2 | 219. | 43.7 |
| %RSD | .04427 | .18690 | .43787 |
| #1 | 9433.1 | 117190. | 10018. |
| #2 | 9439.0 | 117500. | 9956.0 |

Sample Name: 280-45456-c-7-b  Acquired: 8/16/2013 2:46:22  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00029** | **.31858** | **-.00002** | **.00905** | **.03517** | **.00000** | **.00493** | **20.260** | **.00024** | **.00021** |
| Stddev | .00032 | .00068 | .00021 | .00022 | .00070 | .00000 | .00091 | .168 | .00004 | .00012 |
| %RSD | 113.45 | .21201 | 1015.0 | 2.3884 | 1.9904 | 43.922 | 18.559 | .82789 | 14.706 | 58.648 |
| #1 | .00006 | .31810 | .00013 | .00889 | .03468 | .00000 | .00428 | 20.141 | .00022 | .00012 |
| #2 | .00052 | .31905 | -.00017 | .00920 | .03567 | .00000 | .00557 | 20.378 | .00027 | .00029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00043** | **.00029** | **.45509** | **1.1983** | **.00349** | **4.5933** | **.03522** | **.00107** | **15.348** | **.00051** |
| Stddev | .00009 | .00004 | .00073 | .0171 | .00191 | .0118 | .00001 | .00008 | .035 | .00003 |
| %RSD | 20.489 | 14.582 | .16067 | 1.4309 | 54.824 | .25644 | .01457 | 7.1192 | .22771 | 5.1638 |
| #1 | .00037 | .00032 | .45561 | 1.2104 | .00485 | 4.5850 | .03522 | .00112 | 15.373 | .00053 |
| #2 | .00049 | .00026 | .45457 | 1.1862 | .00214 | 4.6017 | .03522 | .00101 | 15.324 | .00049 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02344** | **-.00094** | **5.7587** | **-.00445** | **-.00040** | **3.9706** | **8.4971** | **-.00115** | **.24863** | **.00204** |
| Stddev | .00003 | .00008 | .0141 | .00082 | .00363 | .0138 | .0296 | .00029 | .00169 | .00049 |
| %RSD | .10736 | 8.8079 | .24489 | 18.342 | 909.17 | .34781 | .34781 | 25.360 | .68008 | 23.889 |
| #1 | .02345 | -.00100 | 5.7488 | -.00388 | .00217 | 3.9609 | 8.4762 | -.00094 | .24744 | .00170 |
| #2 | .02342 | -.00088 | 5.7687 | -.00503 | -.00297 | 3.9804 | 8.5180 | -.00136 | .24983 | .00239 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00709** | **.00108** | **-.00619** | **.00045** | **.00387** | **.00339** |
| Stddev | .00036 | .00008 | .00676 | .00018 | .00010 | .00117 |
| %RSD | 5.1171 | 7.8687 | 109.13 | 38.871 | 2.5451 | 34.417 |
| #1 | .00735 | .00114 | -.01097 | .00033 | .00380 | .00256 |
| #2 | .00683 | .00102 | -.00141 | .00058 | .00394 | .00421 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9534.3** | **119200.** | **10109.** |
| Stddev | 38.0 | 801. | 96. |
| %RSD | .39831 | .67155 | .94679 |
| #1 | 9507.4 | 119770. | 10177. |
| #2 | 9561.2 | 118640. | 10041. |

Sample Name: 280-45456-c-8-b  Acquired: 8/16/2013 2:48:40  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **.58411** | **.00166** | **.00826** | **.03881** | **.00012** | **.00416** | **20.524** | **.00030** | **.00023** |
| Stddev | .00030 | .00013 | .00176 | .00047 | .00026 | .00001 | .00092 | .032 | .00007 | .00016 |
| %RSD | 58.065 | .02146 | 106.28 | 5.6970 | .67100 | 5.6680 | 22.049 | .15831 | 22.205 | 68.766 |
| #1 | .00074 | .58403 | .00290 | .00793 | .03900 | .00012 | .00481 | 20.547 | .00026 | .00012 |
| #2 | .00031 | .58420 | .00041 | .00860 | .03863 | .00011 | .00352 | 20.501 | .00035 | .00035 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **.00097** | **.86583** | **1.2401** | **.00524** | **4.0807** | **.10193** | **.00065** | **8.4521** | **.00091** |
| Stddev | .00007 | .00090 | .00174 | .0274 | .00034 | .0074 | .00033 | .00022 | .0123 | .00010 |
| %RSD | 8.6818 | 93.018 | .20063 | 2.2128 | 6.4046 | .18228 | .32062 | 33.330 | .14552 | 11.255 |
| #1 | .00091 | .00161 | .86706 | 1.2595 | .00547 | 4.0755 | .10170 | .00080 | 8.4608 | .00084 |
| #2 | .00080 | .00033 | .86460 | 1.2207 | .00500 | 4.0860 | .10216 | .00049 | 8.4434 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04731** | **-.00096** | **4.0400** | **-.00310** | **.00270** | **5.0507** | **10.808** | **-.00143** | **.22749** | **.00083** |
| Stddev | .00133 | .00068 | .0057 | .00215 | .00068 | .0250 | .054 | .00022 | .00019 | .00004 |
| %RSD | 2.8010 | 70.173 | .14149 | 69.320 | 25.127 | .49555 | .49555 | 15.226 | .08308 | 4.8110 |
| #1 | .04638 | -.00144 | 4.0359 | -.00158 | .00318 | 5.0330 | 10.771 | -.00127 | .22762 | .00080 |
| #2 | .04825 | -.00049 | 4.0440 | -.00462 | .00222 | 5.0684 | 10.846 | -.00158 | .22736 | .00086 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01257** | **.00112** | **-.03577** | **.00111** | **.00389** | **.00453** |
| Stddev | .00030 | .00009 | .03757 | .00005 | .00002 | .00144 |
| %RSD | 2.3897 | 8.4115 | 105.02 | 4.8376 | .59849 | 31.861 |
| #1 | .01235 | .00119 | -.06234 | .00107 | .00391 | .00555 |
| #2 | .01278 | .00106 | -.00921 | .00115 | .00388 | .00351 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9594.0** | **119360.** | **10211.** |
| Stddev | 21.8 | 676. | 84. |
| %RSD | .22745 | .56597 | .82424 |
| #1 | 9578.5 | 119840. | 10151. |
| #2 | 9609.4 | 118880. | 10270. |

Sample Name: 280-45456-c-9-b  Acquired: 8/16/2013 2:50:57  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.64539** | **-.00110** | **.00666** | **.03577** | **.00007** | **.00450** | **16.361** | **.00037** | **.00029** |
| Stddev | .00016 | .00081 | .00194 | .00016 | .00021 | .00001 | .00019 | .034 | .00004 | .00012 |
| %RSD | 58.127 | .12483 | 176.07 | 2.3352 | .59816 | 10.898 | 4.1362 | .20939 | 11.251 | 40.181 |
| #1 | .00039 | .64482 | -.00248 | .00677 | .03592 | .00007 | .00463 | 16.337 | .00034 | .00038 |
| #2 | .00016 | .64596 | .00027 | .00655 | .03562 | .00008 | .00437 | 16.386 | .00039 | .00021 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00070** | **.00143** | **.77797** | **1.1295** | **.00333** | **2.8435** | **.03758** | **.00071** | **4.7769** | **.00098** |
| Stddev | .00013 | .00026 | .00133 | .0213 | .00040 | .0074 | .00006 | .00015 | .0047 | .00004 |
| %RSD | 18.348 | 18.537 | .17083 | 1.8834 | 12.088 | .25875 | .14763 | 21.211 | .09877 | 4.3306 |
| #1 | .00061 | .00124 | .77703 | 1.1446 | .00304 | 2.8487 | .03762 | .00061 | 4.7802 | .00101 |
| #2 | .00079 | .00161 | .77891 | 1.1145 | .00361 | 2.8383 | .03754 | .00082 | 4.7735 | .00095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03609** | **-.00039** | **3.2693** | **-.00396** | **.00231** | **5.2470** | **11.228** | **-.00082** | **.14412** | **.00247** |
| Stddev | .00003 | .00003 | .0018 | .00020 | .00168 | .0161 | .034 | .00011 | .00023 | .00004 |
| %RSD | .09278 | 8.3147 | .05578 | 5.0787 | 72.647 | .30658 | .30658 | 13.515 | .15883 | 1.4387 |
| #1 | .03607 | -.00037 | 3.2706 | -.00410 | .00350 | 5.2356 | 11.204 | -.00090 | .14396 | .00249 |
| #2 | .03611 | -.00041 | 3.2680 | -.00381 | .00112 | 5.2583 | 11.253 | -.00075 | .14428 | .00244 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01792** | **.00093** | **-.02911** | **.00125** | **.00441** | **.00441** |
| Stddev | .00066 | .00006 | .01435 | .00009 | .00024 | .00038 |
| %RSD | 3.6761 | 6.4348 | 49.313 | 7.5661 | 5.4074 | 8.6136 |
| #1 | .01839 | .00097 | -.01896 | .00119 | .00424 | .00414 |
| #2 | .01746 | .00089 | -.03926 | .00132 | .00458 | .00468 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9539.7** | **118720.** | **10031.** |
| Stddev | 3.5 | 379. | 12. |
| %RSD | .03687 | .31940 | .11601 |
| #1 | 9537.2 | 118450. | 10039. |
| #2 | 9542.2 | 118990. | 10022. |

Sample Name: 280-45456-c-10-b  Acquired: 8/16/2013 2:53:12  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187266  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00068** | **.29989** | **.00160** | **.00497** | **.02759** | **.00009** | **.00297** | **13.938** | **.00034** | **.00016** |
| Stddev | .00002 | .00203 | .00268 | .00020 | .00004 | .00003 | .00229 | .008 | .00002 | .00032 |
| %RSD | 2.6414 | .67704 | 167.79 | 4.0946 | .16270 | 40.130 | 76.935 | .05632 | 5.5032 | 198.23 |
| #1 | .00069 | .29845 | .00350 | .00482 | .02762 | .00006 | .00459 | 13.933 | .00033 | -.00006 |
| #2 | .00067 | .30132 | -.00030 | .00511 | .02756 | .00011 | .00136 | 13.944 | .00035 | .00038 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00032** | **.00058** | **.39317** | **.85947** | **.00146** | **2.2494** | **.02117** | **.00038** | **3.8172** | **.00071** |
| Stddev | .00002 | .00011 | .00211 | .01523 | .00096 | .0022 | .00000 | .00002 | .0016 | .00032 |
| %RSD | 5.3231 | 18.826 | .53679 | 1.7726 | 66.046 | .09607 | .01271 | 5.0724 | .04275 | 45.636 |
| #1 | .00031 | .00065 | .39168 | .84869 | .00078 | 2.2510 | .02117 | .00037 | 3.8183 | .00093 |
| #2 | .00033 | .00050 | .39466 | .87024 | .00214 | 2.2479 | .02117 | .00039 | 3.8160 | .00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02430** | **-.00072** | **2.3001** | **-.00487** | **-.00068** | **4.4728** | **9.5717** | **-.00150** | **.11574** | **.00062** |
| Stddev | .00208 | .00006 | .0120 | .00290 | .00078 | .0317 | .0678 | .00022 | .00031 | .00212 |
| %RSD | 8.5562 | 8.3688 | .51999 | 59.572 | 113.36 | .70863 | .70863 | 14.846 | .26939 | 341.30 |
| #1 | .02577 | -.00076 | 2.2916 | -.00692 | -.00123 | 4.4952 | 9.6197 | -.00165 | .11596 | .00212 |
| #2 | .02283 | -.00067 | 2.3085 | -.00282 | -.00014 | 4.4504 | 9.5238 | -.00134 | .11552 | -.00088 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00832** | **.00124** | **-.02783** | **.00008** | **.00423** | **.00556** |
| Stddev | .00006 | .00109 | .01192 | .00003 | .00033 | .00156 |
| %RSD | .66946 | 88.206 | 42.840 | 34.316 | 7.9088 | 28.124 |
| #1 | .00836 | .00047 | -.03627 | .00006 | .00446 | .00446 |
| #2 | .00828 | .00201 | -.01940 | .00010 | .00399 | .00667 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9527.0** | **118320.** | **9885.8** |
| Stddev | 28.1 | 450. | 15.7 |
| %RSD | .29511 | .37999 | .15920 |
| #1 | 9546.9 | 118010. | 9874.6 |
| #2 | 9507.1 | 118640. | 9896.9 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 2:55:30 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00052** | **49.310** | **.00181** | **.00198** | **.00075** | **-.00002** | **1.0403** | **-.00648** | **.00026** | **.00032** | **-.00009** | **.00224** | **49.363** |
| Stddev | .00091 | .002 | .00004 | .00046 | .00017 | .00003 | .0028 | .00044 | .00010 | .00004 | .00020 | .00014 | .375 |
| %RSD | 173.71 | .00349 | 2.3631 | 23.073 | 22.937 | 162.43 | .26860 | 6.7925 | 38.023 | 13.000 | 221.40 | 6.1498 | .75982 |
| #1 | .00117 | 49.309 | .00184 | .00231 | .00088 | -.00004 | 1.0383 | -.00679 | .00033 | .00035 | .00005 | .00233 | 49.628 |
| #2 | -.00012 | 49.312 | .00178 | .00166 | .00063 | .00000 | 1.0422 | -.00616 | .00019 | .00029 | -.00023 | .00214 | 49.098 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09502** | **.00329** | **-.00009** | **.00004** | **.00010** | **253.61** | **.00116** | **.00335** | **.00057** | **5.1700** | **.00273** | **.00061** | **.00992** |
| Stddev | .02810 | .00137 | .00012 | .00009 | .00003 | .73 | .00015 | .00012 | .00000 | .0128 | .00010 | .00056 | .00326 |
| %RSD | 29.569 | 41.619 | 127.81 | 230.77 | 28.970 | .28769 | 13.246 | 3.5153 | .58278 | .24796 | 3.4938 | 92.129 | 32.898 |
| #1 | .07515 | .00232 | -.00018 | -.00002 | .00013 | 253.10 | .00127 | .00327 | .00057 | 5.1609 | .00280 | .00100 | .00761 |
| #2 | .11489 | .00425 | -.00001 | .00010 | .00008 | 254.13 | .00105 | .00343 | .00057 | 5.1790 | .00266 | .00021 | .01223 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02123** | **-.00040** | **.00048** | **4.8800** | **.00049** | **.00202** | **10.257** | **.00025** | **.00053** | **.02440** |
| Stddev | .00698 | .00018 | .00001 | .0291 | .00006 | .00062 | .020 | .00010 | .00014 | .00146 |
| %RSD | 32.898 | 45.120 | 1.1882 | .59708 | 11.979 | 30.570 | .19390 | 40.253 | 26.624 | 5.9684 |
| #1 | .01629 | -.00027 | .00048 | 4.9006 | .00045 | .00246 | 10.243 | .00032 | .00063 | .02543 |
| #2 | .02617 | -.00052 | .00049 | 4.8593 | .00053 | .00158 | 10.271 | .00018 | .00043 | .02337 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9128.3** | **111820.** | **9765.0** |
| Stddev | 29.8 | 639. | 145.1 |
| %RSD | .32647 | .57149 | 1.4860 |
| #1 | 9107.2 | 112270. | 9662.4 |
| #2 | 9149.4 | 111370. | 9867.7 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 2:57:52 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49787** | **.53786** | **1.0083** | **.51669** | **.50326** | **.49468** | **.00389** | **4.9714** | **.51343** | **.50827** | **.50057** | **.50584** | **2.5187** |
| Stddev | .00127 | .00138 | .0025 | .00032 | .00087 | .00156 | .00135 | .0139 | .00018 | .00071 | .00038 | .00030 | .0261 |
| %RSD | .25595 | .25702 | .24674 | .06149 | .17203 | .31579 | 34.627 | .27983 | .03598 | .14014 | .07528 | .05919 | 1.0348 |
| #1 | .49877 | .53688 | 1.0066 | .51647 | .50265 | .49357 | .00293 | 4.9616 | .51330 | .50877 | .50084 | .50563 | 2.5003 |
| #2 | .49697 | .53884 | 1.0101 | .51692 | .50387 | .49578 | .00484 | 4.9813 | .51356 | .50776 | .50030 | .50605 | 2.5371 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.592** | **.96962** | **19.088** | **.49214** | **.50238** | **5.1747** | **.50630** | **1.0171** | **1.0163** | **.00349** | **1.0362** | **1.0257** | **4.8725** |
| Stddev | .131 | .00012 | .066 | .00011 | .00064 | .0271 | .00063 | .0026 | .0004 | .00095 | .0007 | .0045 | .0473 |
| %RSD | .26396 | .01241 | .34442 | .02162 | .12766 | .52280 | .12388 | .25760 | .03809 | 27.083 | .06542 | .44125 | .97166 |
| #1 | 49.500 | .96970 | 19.135 | .49207 | .50193 | 5.1556 | .50674 | 1.0153 | 1.0160 | .00416 | 1.0357 | 1.0225 | 4.8391 |
| #2 | 49.685 | .96953 | 19.042 | .49222 | .50284 | 5.1939 | .50586 | 1.0190 | 1.0166 | .00283 | 1.0367 | 1.0289 | 4.9060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.427** | **1.0025** | **.50415** | **-.00305** | **.49566** | **1.0358** | **-.00099** | **.49692** | **.47915** | **.50654** |
| Stddev | .101 | .0013 | .00064 | .00077 | .00128 | .0004 | .00917 | .00117 | .00264 | .00159 |
| %RSD | .97166 | .13076 | .12615 | 25.295 | .25834 | .03415 | 924.35 | .23640 | .55099 | .31382 |
| #1 | 10.356 | 1.0015 | .50370 | -.00359 | .49656 | 1.0356 | .00549 | .49775 | .48102 | .50542 |
| #2 | 10.499 | 1.0034 | .50459 | -.00250 | .49475 | 1.0361 | -.00748 | .49609 | .47728 | .50766 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9374.4** | **116010.** | **9943.4** |
| Stddev | 32.6 | 247. | 7.4 |
| %RSD | .34822 | .21277 | .07403 |
| #1 | 9351.3 | 115830. | 9948.6 |
| #2 | 9397.5 | 116180. | 9938.2 |

Sample Name: CCB  Acquired: 8/16/2013 2:59:59  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **.00177** | **.00005** | **.00159** | **-.00026** | **-.00004** | **.00404** | **-.00251** | **.00033** | **.00018** | **-.00001** | **-.00064** |
| Stddev | .00008 | .00005 | .00241 | .00016 | .00074 | .00002 | .00094 | .00212 | .00014 | .00031 | .00008 | .00018 |
| %RSD | 14.745 | 2.5844 | 5179.1 | 10.188 | 291.34 | 58.724 | 23.184 | 84.544 | 41.684 | 174.97 | 565.97 | 27.889 |
| #1 | .00061 | .00180 | -.00166 | .00148 | .00027 | -.00006 | .00470 | -.00101 | .00023 | -.00004 | .00004 | -.00077 |
| #2 | .00049 | .00174 | .00175 | .00170 | -.00078 | -.00002 | .00337 | -.00401 | .00043 | .00040 | -.00007 | -.00051 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00060** | **.09643** | **-.00108** | **.00103** | **.00005** | **.00069** | W **.14442** | **.00007** | **.00124** | **-.00173** | **.00148** | F **.00631** |
| Stddev | .00005 | .00677 | .00176 | .00036 | .00004 | .00024 | .01110 | .00001 | .00075 | .00079 | .00012 | .00179 |
| %RSD | 8.4229 | 7.0239 | 162.19 | 35.067 | 74.346 | 35.091 | 7.6854 | 12.704 | 60.947 | 45.339 | 7.8093 | 28.375 |
| #1 | -.00056 | .09164 | .00016 | .00077 | .00002 | .00052 | .15227 | .00007 | .00177 | -.00118 | .00157 | .00505 |
| #2 | -.00064 | .10121 | -.00233 | .00128 | .00007 | .00086 | .13658 | .00008 | .00070 | -.00229 | .00140 | .00758 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | .09160 | | | | | .00628 |
| Low Limit | | | | | | | -.09160 | | | | | -.00628 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00229** | **.01338** | **.02864** | **-.00129** | **.00000** | **-.00100** | **.00042** | **.00038** | **-.02139** | **-.00053** | **.00112** | W **.00300** |
| Stddev | .00194 | .00550 | .01176 | .00021 | .0001 | .00088 | .00026 | .00014 | .01924 | .00033 | .00047 | .00095 |
| %RSD | 84.557 | 41.072 | 41.072 | 16.593 | 1669.0 | 87.660 | 62.202 | 36.116 | 89.966 | 62.941 | 41.950 | 31.689 |
| #1 | .00092 | .00950 | .02032 | -.00145 | .00005 | -.00038 | .00023 | .00029 | -.03499 | -.00029 | .00145 | .00233 |
| #2 | .00366 | .01727 | .03696 | -.00114 | -.00005 | -.00162 | .00060 | .00048 | -.00778 | -.00076 | .00079 | .00367 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9358.6** | **117500.** | **9714.4** |
| Stddev | 10.8 | 1. | 48.0 |
| %RSD | .11534 | .00118 | .49424 |
| #1 | 9351.0 | 117500. | 9748.3 |
| #2 | 9366.2 | 117500. | 9680.4 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 3:02:16 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01084** | **.10753** | **.01646** | **.10331** | **.01015** | **.00101** | **.12213** | **.20081** | **.00541** | **.01081** | **.01024** | **.01495** | **.10324** |
| Stddev | .00068 | .00056 | .00079 | .00022 | .00005 | .00000 | .00184 | .00307 | .00009 | .00013 | .00022 | .00014 | .00252 |
| %RSD | 6.2906 | .51694 | 4.7720 | .20832 | .44414 | .01538 | 1.5052 | 1.5310 | 1.6088 | 1.1867 | 2.1054 | .90941 | 2.4443 |
| #1 | .01132 | .10714 | .01701 | .10316 | .01012 | .00101 | .12083 | .19863 | .00548 | .01072 | .01009 | .01505 | .10145 |
| #2 | .01036 | .10793 | .01590 | .10346 | .01018 | .00101 | .12343 | .20298 | .00535 | .01090 | .01039 | .01485 | .10502 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0888** | **.01187** | **.20327** | **.01038** | **.01971** | **1.1691** | **.04266** | **3.0286** | **.00832** | **.00309** | **.00862** | **.01599** | **.47651** |
| Stddev | .0144 | .00189 | .00128 | .00003 | .00029 | .0105 | .00014 | .0166 | .00004 | .00181 | .00002 | .00265 | .00315 |
| %RSD | .46591 | 15.892 | .63123 | .28141 | 1.4955 | .89513 | .32238 | .54782 | .49347 | 58.590 | .23128 | 16.598 | .66029 |
| #1 | 3.0786 | .01053 | .20418 | .01036 | .01950 | 1.1617 | .04275 | 3.0169 | .00835 | .00181 | .00861 | .01411 | .47873 |
| #2 | 3.0989 | .01320 | .20237 | .01040 | .01992 | 1.1765 | .04256 | 3.0403 | .00829 | .00436 | .00864 | .01786 | .47428 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0197** | **.10192** | **.01039** | **.01553** | **.01039** | **.01902** | F **.03294** | **.00923** | **.02105** | F **.01999** |
| Stddev | .0067 | .00051 | .00006 | .00146 | .00006 | .00038 | .02248 | .00042 | .00019 | .00060 |
| %RSD | .66029 | .49844 | .60682 | 9.4069 | .56839 | 1.9954 | 68.257 | 4.5795 | .92448 | 3.0160 |
| #1 | 1.0245 | .10157 | .01035 | .01450 | .01035 | .01875 | .04883 | .00953 | .02091 | .01956 |
| #2 | 1.0150 | .10228 | .01044 | .01656 | .01044 | .01928 | .01704 | .00893 | .02118 | .02042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | .06000 | | | .01500 |
| Range | | | | | | | -30.000% | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9523.8** | **119930.** | **9948.3** |
| Stddev | 6.2 | 27. | 111.0 |
| %RSD | .06539 | .02224 | 1.1157 |
| #1 | 9519.4 | 119950. | 10027. |
| #2 | 9528.2 | 119910. | 9869.8 |

Sample Name: mb 280-187264/1-a  Acquired: 8/16/2013 3:04:33  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00016** | **.00200** | **.00039** | **.00161** | **.00013** | **.00004** | **.00537** | **.00381** | **.00023** | **.00011** |
| Stddev | .00046 | .00007 | .00070 | .00003 | .00009 | .00005 | .00077 | .00303 | .00000 | .00013 |
| %RSD | 287.34 | 3.3815 | 179.95 | 1.7983 | 66.208 | 141.62 | 14.397 | 79.628 | .11564 | 118.13 |
| #1 | .00048 | .00195 | .00089 | .00159 | .00007 | .00000 | .00482 | .00596 | .00023 | .00002 |
| #2 | -.00016 | .00204 | -.00011 | .00163 | .00020 | .00007 | .00592 | .00167 | .00023 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00001** | **-.00048** | **.00423** | **.11943** | **.00207** | **.00123** | **.00012** | **.00013** | **.13210** | **.00003** |
| Stddev | .00014 | .00030 | .00161 | .01001 | .00019 | .00148 | .00007 | .00001 | .00311 | .00019 |
| %RSD | 1225.8 | 61.703 | 38.142 | 8.3802 | 9.3408 | 120.12 | 62.688 | 6.8638 | 2.3547 | 562.31 |
| #1 | .00009 | -.00070 | .00309 | .11235 | .00220 | .00019 | .00017 | .00012 | .12990 | .00017 |
| #2 | -.00011 | -.00027 | .00537 | .12651 | .00193 | .00228 | .00007 | .00014 | .13430 | -.00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00272** | **-.00110** | **.00285** | **-.00250** | **.00273** | **-.00221** | **-.00473** | **-.00076** | **.00005** | **.00118** |
| Stddev | .00058 | .00022 | .00121 | .00024 | .00345 | .01091 | .02335 | .00006 | .00006 | .00122 |
| %RSD | 21.246 | 19.795 | 42.364 | 9.6296 | 126.28 | 493.93 | 493.93 | 7.5665 | 121.42 | 103.38 |
| #1 | .00312 | -.00095 | .00371 | -.00267 | .00029 | .00551 | .01178 | -.00072 | .00001 | .00204 |
| #2 | .00231 | -.00126 | .00200 | -.00233 | .00517 | -.00992 | -.02124 | -.00080 | .00010 | .00032 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **-.00015** | **.00143** | **-.00054** | **.00177** | **.00498** |
| Stddev | .00004 | .00040 | .03016 | .00060 | .00001 | .00048 |
| %RSD | 10.304 | 271.03 | 2114.2 | 112.03 | .49933 | 9.5761 |
| #1 | .00040 | -.00043 | .02275 | -.00096 | .00177 | .00464 |
| #2 | .00035 | .00014 | -.01990 | -.00011 | .00176 | .00532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9431.1** | **118190.** | **9793.3** |
| Stddev | 19.0 | 554. | 12.4 |
| %RSD | .20125 | .46874 | .12665 |
| #1 | 9444.5 | 118580. | 9784.6 |
| #2 | 9417.6 | 117800. | 9802.1 |

Sample Name: lcs 280-187264/2-a  Acquired: 8/16/2013 3:06:50  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04809** | **1.8912** | **1.0034** | **.99785** | **2.0002** | **.04894** | **2.0932** | **48.741** | **.10530** | **.48852** |
| Stddev | .00041 | .0017 | .0049 | .00034 | .0075 | .00007 | .0032 | .036 | .00006 | .00025 |
| %RSD | .85906 | .08884 | .48756 | .03403 | .37347 | .14733 | .15353 | .07300 | .05935 | .05047 |
| #1 | .04780 | 1.8900 | .99996 | .99809 | 2.0055 | .04889 | 2.0955 | 48.766 | .10526 | .48869 |
| #2 | .04838 | 1.8923 | 1.0069 | .99761 | 1.9949 | .04899 | 2.0909 | 48.716 | .10534 | .48835 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19692** | **.25047** | **.98749** | **49.459** | **.95475** | **46.571** | **.48084** | **.99172** | **51.258** | **.48581** |
| Stddev | .00066 | .00013 | .00137 | .105 | .00087 | .037 | .00091 | .00235 | .075 | .00005 |
| %RSD | .33577 | .05078 | .13895 | .21260 | .09072 | .08024 | .18941 | .23646 | .14667 | .00966 |
| #1 | .19739 | .25056 | .98846 | 49.385 | .95536 | 46.545 | .48020 | .99338 | 51.205 | .48584 |
| #2 | .19646 | .25038 | .98652 | 49.533 | .95413 | 46.598 | .48148 | .99006 | 51.312 | .48577 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.087** | **.49081** | **-.00698** | **.49324** | **1.9934** | **9.6899** | **20.736** | **1.9592** | **1.0025** | **.95008** |
| Stddev | .018 | .00077 | .00322 | .00273 | .0017 | .0400 | .086 | .0006 | .0011 | .00056 |
| %RSD | .18241 | .15683 | 46.189 | .55363 | .08491 | .41262 | .41262 | .02920 | .10885 | .05924 |
| #1 | 10.100 | .49135 | -.00925 | .49131 | 1.9922 | 9.6616 | 20.676 | 1.9596 | 1.0032 | .95048 |
| #2 | 10.074 | .49026 | -.00470 | .49517 | 1.9946 | 9.7182 | 20.797 | 1.9588 | 1.0017 | .94968 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98499** | **1.9489** | **2.1087** | **.49576** | **.46352** | **.50869** |
| Stddev | .00041 | .0062 | .0531 | .00041 | .00084 | .00273 |
| %RSD | .04211 | .31797 | 2.5193 | .08242 | .18203 | .53687 |
| #1 | .98469 | 1.9445 | 2.0711 | .49605 | .46412 | .50676 |
| #2 | .98528 | 1.9532 | 2.1462 | .49547 | .46293 | .51062 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9111.6** | **112860.** | **9807.6** |
| Stddev | 14.7 | 493. | 41.9 |
| %RSD | .16131 | .43658 | .42730 |
| #1 | 9101.2 | 112510. | 9837.3 |
| #2 | 9122.0 | 113210. | 9778.0 |

Sample Name: 280-45454-e-1-a  Acquired: 8/16/2013 3:08:58  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00028** | **.10722** | **.00005** | **.02798** | **.14825** | **.00002** | **.00156** | **136.59** | **.00103** | **.00129** |
| Stddev | .00048 | .00042 | .00136 | .00018 | .00004 | .00002 | .00163 | .38 | .00006 | .00006 |
| %RSD | 168.58 | .39465 | 2872.1 | .63831 | .02390 | 117.61 | 105.01 | .27956 | 6.1787 | 4.6602 |
| #1 | -.00005 | .10752 | -.00092 | .02785 | .14827 | .00003 | .00271 | 136.32 | .00107 | .00125 |
| #2 | .00062 | .10692 | .00101 | .02810 | .14822 | .00000 | .00040 | 136.86 | .00098 | .00133 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00050** | **.13579** | **5.0582** | **.05920** | **85.482** | **.49002** | **.00168** | **172.79** | **.00118** |
| Stddev | .00000 | .00000 | .00125 | .0245 | .00266 | 1.055 | .00084 | .00009 | .03 | .00002 |
| %RSD | .26893 | .18655 | .91924 | .48363 | 4.4877 | 1.2338 | .17177 | 5.2575 | .01930 | 1.8455 |
| #1 | .00020 | .00050 | .13667 | 5.0409 | .06108 | 86.228 | .48943 | .00162 | 172.77 | .00119 |
| #2 | .00020 | .00050 | .13491 | 5.0755 | .05732 | 84.737 | .49062 | .00174 | 172.81 | .00116 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00776** | **-.00059** | F **243.61** | **-.00276** | **.00398** | **5.1217** | **10.961** | **-.00092** | **3.4103** | **.00150** |
| Stddev | .00068 | .00043 | .01 | .00030 | .00102 | .0084 | .018 | .00011 | .0342 | .00161 |
| %RSD | 8.7513 | 73.066 | .00503 | 10.932 | 25.692 | .16326 | .16326 | 11.936 | 1.0012 | 107.49 |
| #1 | .00824 | -.00028 | 243.62 | -.00255 | .00326 | 5.1158 | 10.948 | -.00100 | 3.3862 | .00263 |
| #2 | .00728 | -.00089 | 243.60 | -.00298 | .00470 | 5.1276 | 10.973 | -.00085 | 3.4345 | .00036 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00284** | **.00159** | **-.01971** | **.00066** | **.00344** | **.00520** |
| Stddev | .00006 | .00002 | .00501 | .00042 | .00067 | .00053 |
| %RSD | 2.2472 | 1.0345 | 25.431 | 62.578 | 19.397 | 10.166 |
| #1 | .00279 | .00160 | -.01616 | .00037 | .00391 | .00557 |
| #2 | .00288 | .00157 | -.02325 | .00096 | .00296 | .00483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8864.1** | **110450.** | **9767.1** |
| Stddev | 18.5 | 88. | 2.9 |
| %RSD | .20901 | .07948 | .02969 |
| #1 | 8877.2 | 110510. | 9769.2 |
| #2 | 8851.0 | 110390. | 9765.1 |

Sample Name: 280-45454-e-2-d  Acquired: 8/16/2013 3:11:26  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **22.690** | **.01001** | **.03424** | **.34782** | **.00117** | **-.00133** | **50.577** | **.00113** | **.00874** |
| Stddev | .00004 | .065 | .00271 | .00054 | .00111 | .00002 | .00161 | .104 | .00001 | .00019 |
| %RSD | 192.55 | .28735 | 27.070 | 1.5780 | .31853 | 1.6949 | 120.75 | .20475 | 1.3193 | 2.1954 |
| #1 | -.00001 | 22.737 | .00809 | .03462 | .34860 | .00116 | -.00019 | 50.650 | .00114 | .00887 |
| #2 | .00005 | 22.644 | .01192 | .03386 | .34704 | .00118 | -.00247 | 50.503 | .00112 | .00860 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02344** | **.03034** | **24.772** | **7.0811** | **.02423** | **11.649** | **.44743** | **.00266** | **9.7763** | W **10.735** |
| Stddev | .00013 | .00028 | .041 | .0325 | .00290 | .052 | .00116 | .00014 | .0300 | .194 |
| %RSD | .54466 | .90819 | .16492 | .45888 | 11.971 | .44820 | .25985 | 5.1604 | .30709 | 1.8057 |
| #1 | .02353 | .03054 | 24.800 | 7.1041 | .02218 | 11.613 | .44661 | .00256 | 9.7975 | 10.872 |
| #2 | .02335 | .03015 | 24.743 | 7.0581 | .02628 | 11.686 | .44825 | .00275 | 9.7550 | 10.598 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02693** | **.71529** | **.01394** | **16.107** | **-.00632** | **.00608** | **38.403** | **82.182** | **-.00005** | **.34324** |
| Stddev | .00025 | .00419 | .00092 | .040 | .00029 | .00326 | .072 | .155 | .00013 | .00026 |
| %RSD | .91815 | .58583 | 6.6131 | .24736 | 4.5534 | 53.603 | .18842 | .18842 | 262.78 | .07691 |
| #1 | .02711 | .71825 | .01459 | 16.079 | -.00611 | .00838 | 38.454 | 82.291 | .00004 | .34343 |
| #2 | .02676 | .71233 | .01329 | 16.135 | -.00652 | .00377 | 38.352 | 82.072 | -.00014 | .34306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00738** | **.21175** | **.00051** | W **-.06875** | **.05587** | **.10148** | **.00850** |
| Stddev | .00328 | .00368 | .00126 | .02640 | .00055 | .00002 | .00002 |
| %RSD | 44.425 | 1.7391 | 249.43 | 38.405 | .97916 | .02066 | .19499 |
| #1 | .00506 | .21435 | .00140 | -.05008 | .05548 | .10146 | .00852 |
| #2 | .00970 | .20914 | -.00039 | -.08742 | .05625 | .10149 | .00849 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | 45.000 | | | |
| Low Limit | | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9441.5** | **115510.** | **9981.2** |
| Stddev | 58.2 | 484. | 75.1 |
| %RSD | .61592 | .41882 | .75268 |
| #1 | 9400.3 | 115850. | 9928.0 |
| #2 | 9482.6 | 115170. | 10034. |

Sample Name: 280-45454-e-2-dSD@5 Acquired: 8/16/2013 3:13:40 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187264 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .00001 | 6.3756 | .00156 | .01066 | .09327 | .00043 | .00323 | 13.399 | .00059 | .00232 |
| Stddev | .00067 | .0233 | .00106 | .00006 | .00057 | .00008 | .00062 | .093 | .00010 | .00013 |
| %RSD | 4493.5 | .36497 | 67.779 | .56734 | .60791 | 18.503 | 19.129 | .69335 | 17.048 | 5.8226 |
| #1 | -.00046 | 6.3921 | .00081 | .01070 | .09367 | .00038 | .00279 | 13.465 | .00052 | .00241 |
| #2 | .00049 | 6.3592 | .00231 | .01061 | .09287 | .00049 | .00366 | 13.334 | .00066 | .00222 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .00657 | .00712 | 6.6234 | 2.0202 | .00793 | 3.0689 | .11813 | .00069 | 2.7198 | .00721 |
| Stddev | .00003 | .00018 | .0644 | .0419 | .00023 | .0044 | .00010 | .00024 | .0342 | .00002 |
| %RSD | .49102 | 2.5898 | .97164 | 2.0740 | 2.9083 | .14452 | .08317 | 34.232 | 1.2580 | .32907 |
| #1 | .00659 | .00699 | 6.6689 | 1.9906 | .00809 | 3.0721 | .11806 | .00085 | 2.7440 | .00720 |
| #2 | .00655 | .00725 | 6.5779 | 2.0499 | .00777 | 3.0658 | .11820 | .00052 | 2.6956 | .00723 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .18611 | .00265 | 4.1579 | -.00472 | -.00020 | 11.010 | 23.561 | -.00008 | .09207 | .00277 |
| Stddev | .00006 | .00016 | .0117 | .00035 | .00257 | .132 | .282 | .00060 | .00065 | .00072 |
| %RSD | .03242 | 5.9472 | .28011 | 7.3457 | 1280.0 | 1.1984 | 1.1984 | 725.43 | .70539 | 26.100 |
| #1 | .18606 | .00276 | 4.1661 | -.00448 | .00162 | 11.103 | 23.761 | .00034 | .09253 | .00328 |
| #2 | .18615 | .00253 | 4.1496 | -.00497 | -.00202 | 10.917 | 23.361 | -.00051 | .09161 | .00226 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .07173 | .00004 | -.02879 | .01527 | .02996 | .00736 |
| Stddev | .00118 | .00047 | .02412 | .00038 | .00045 | .00092 |
| %RSD | 1.6434 | 1300.6 | 83.782 | 2.4625 | 1.5054 | 12.519 |
| #1 | .07256 | -.00030 | -.04585 | .01553 | .02964 | .00671 |
| #2 | .07089 | .00037 | -.01174 | .01500 | .03028 | .00802 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | 9459.7 | 117140. | 9943.5 |
| Stddev | 7.4 | 138. | 32.9 |
| %RSD | .07869 | .11812 | .33119 |
| #1 | 9465.0 | 117040. | 9920.2 |
| #2 | 9454.4 | 117240. | 9966.8 |

Sample Name: 280-45454-e-2-e ms  Acquired: 8/16/2013 3:15:57  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03487** | **35.474** | **.69911** | **.72691** | **1.6779** | **.03375** | F **1.4586** | **72.506** | **.07352** | **.33813** |
| Stddev | .00034 | .023 | .00327 | .00530 | .0024 | .00001 | .0117 | .158 | .00030 | .00021 |
| %RSD | .97607 | .06620 | .46759 | .72962 | .14001 | .03079 | .80433 | .21750 | .40371 | .06284 |
| #1 | .03463 | 35.458 | .70142 | .73066 | 1.6796 | .03375 | 1.4669 | 72.617 | .07373 | .33828 |
| #2 | .03511 | 35.491 | .69680 | .72316 | 1.6763 | .03376 | 1.4503 | 72.394 | .07331 | .33798 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16713** | **.19746** | **21.580** | **43.318** | **.68242** | **42.412** | **.68086** | **.66929** | **43.315** | **.35331** |
| Stddev | .00110 | .00098 | .058 | .084 | .00462 | .040 | .00012 | .00053 | .009 | .00185 |
| %RSD | .65707 | .49434 | .26976 | .19275 | .67708 | .09493 | .01820 | .07979 | .02145 | .52454 |
| #1 | .16791 | .19677 | 21.539 | 43.377 | .68569 | 42.441 | .68077 | .66891 | 43.308 | .35462 |
| #2 | .16636 | .19815 | 21.621 | 43.259 | .67916 | 42.384 | .68095 | .66966 | 43.322 | .35200 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.3814** | **.34580** | **12.955** | **.29242** | **1.3712** | **40.603** | **86.889** | **1.3109** | **.95590** | **.64625** |
| Stddev | .0028 | .00287 | .001 | .00115 | .0119 | .202 | .432 | .0121 | .00241 | .00131 |
| %RSD | .03816 | .82987 | .00663 | .39245 | .86743 | .49698 | .49698 | .92230 | .25198 | .20195 |
| #1 | 7.3834 | .34783 | 12.954 | .29161 | 1.3796 | 40.745 | 87.195 | 1.3195 | .95760 | .64717 |
| #2 | 7.3794 | .34377 | 12.956 | .29323 | 1.3628 | 40.460 | 86.584 | 1.3024 | .95419 | .64532 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.88138** | **1.3340** | **1.3845** | **.42257** | **.40026** | **.33019** |
| Stddev | .00208 | .0072 | .0369 | .00011 | .00191 | .00129 |
| %RSD | .23615 | .53801 | 2.6642 | .02486 | .47723 | .39120 |
| #1 | .87991 | 1.3390 | 1.4106 | .42250 | .40161 | .32928 |
| #2 | .88285 | 1.3289 | 1.3584 | .42265 | .39891 | .33111 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9307.7** | **114380.** | **9887.2** |
| Stddev | 1.9 | 116. | 65.5 |
| %RSD | .02028 | .10114 | .66283 |
| #1 | 9306.3 | 114300. | 9840.9 |
| #2 | 9309.0 | 114460. | 9933.6 |

Sample Name: 280-45454-e-2-f msd  Acquired: 8/16/2013 3:18:04  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03775** | **39.584** | **.78728** | **.80960** | **1.8872** | **.03839** | F **1.6214** | **81.631** | **.08205** | **.38039** |
| Stddev | .00046 | .234 | .00003 | .00139 | .0010 | .00022 | .0067 | .363 | .00009 | .00022 |
| %RSD | 1.2223 | .59176 | .00409 | .17185 | .05192 | .57517 | .41473 | .44419 | .10525 | .05857 |
| #1 | .03743 | 39.418 | .78725 | .80862 | 1.8865 | .03824 | 1.6167 | 81.374 | .08211 | .38055 |
| #2 | .03808 | 39.750 | .78730 | .81059 | 1.8879 | .03855 | 1.6262 | 81.887 | .08199 | .38023 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18746** | **.22192** | **24.261** | **48.607** | **.76637** | **47.646** | **.76448** | **.75545** | **48.495** | **.39562** |
| Stddev | .00031 | .00050 | .073 | .125 | .00162 | .011 | .00069 | .00073 | .287 | .00002 |
| %RSD | .16609 | .22393 | .30139 | .25634 | .21174 | .02312 | .08987 | .09728 | .59086 | .00631 |
| #1 | .18724 | .22228 | 24.210 | 48.519 | .76752 | 47.654 | .76497 | .75493 | 48.292 | .39560 |
| #2 | .18768 | .22157 | 24.313 | 48.695 | .76522 | 47.638 | .76399 | .75597 | 48.698 | .39564 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.2927** | **.38587** | **14.452** | **.32461** | **1.5381** | **45.402** | **97.160** | **1.4714** | **1.0770** | **.72825** |
| Stddev | .0242 | .00070 | .050 | .00066 | .0031 | .030 | .064 | .0013 | .0024 | .00302 |
| %RSD | .29195 | .18096 | .34337 | .20448 | .20007 | .06583 | .06583 | .08699 | .21889 | .41410 |
| #1 | 8.2756 | .38538 | 14.417 | .32414 | 1.5360 | 45.423 | 97.206 | 1.4705 | 1.0754 | .73038 |
| #2 | 8.3098 | .38637 | 14.487 | .32508 | 1.5403 | 45.381 | 97.115 | 1.4723 | 1.0787 | .72612 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98382** | **1.4837** | **1.6033** | **.47507** | **.44744** | **.37252** |
| Stddev | .00211 | .0019 | .0225 | .00026 | .00147 | .00125 |
| %RSD | .21403 | .13056 | 1.4012 | .05523 | .32780 | .33562 |
| #1 | .98234 | 1.4823 | 1.5875 | .47488 | .44848 | .37340 |
| #2 | .98531 | 1.4850 | 1.6192 | .47526 | .44640 | .37163 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9256.5** | **113300.** | **9988.0** |
| Stddev | 14.1 | 221. | 83.9 |
| %RSD | .15238 | .19462 | .83995 |
| #1 | 9246.5 | 113140. | 10047. |
| #2 | 9266.5 | 113460. | 9928.7 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 3:20:10 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00067** | **49.358** | **.00263** | **.00465** | **.00079** | **-.00004** | **1.0430** | **-.00281** | **.00029** | **.00020** | **.00000** | **.00204** | **49.477** |
| Stddev | .00037 | .148 | .00259 | .00025 | .00017 | .00011 | .0014 | .00467 | .00002 | .00001 | .0001 | .00010 | .119 |
| %RSD | 55.289 | .29906 | 98.410 | 5.3010 | 21.186 | 261.84 | .13286 | 166.55 | 8.5410 | 3.0528 | 2536.5 | 4.7506 | .24122 |
| #1 | .00094 | 49.254 | .00447 | .00447 | .00090 | -.00012 | 1.0420 | .00050 | .00030 | .00019 | .00006 | .00211 | 49.393 |
| #2 | .00041 | 49.463 | .00080 | .00482 | .00067 | .00004 | 1.0440 | -.00611 | .00027 | .00020 | -.00006 | .00197 | 49.561 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.16218** | **.00165** | **.00116** | **.00003** | **.00110** | **254.31** | **.00093** | **.00326** | **-.00003** | **5.1783** | **.00144** | **.00156** | **.02796** |
| Stddev | .02123 | .00203 | .00240 | .00002 | .00042 | 1.40 | .00019 | .00152 | .00103 | .0104 | .00068 | .00141 | .00555 |
| %RSD | 13.089 | 123.32 | 207.33 | 47.475 | 38.195 | .55041 | 20.545 | 46.718 | 3488.3 | .20051 | 47.111 | 90.377 | 19.855 |
| #1 | .14717 | .00308 | .00285 | .00002 | .00081 | 253.32 | .00106 | .00433 | .00070 | 5.1710 | .00192 | .00255 | .03188 |
| #2 | .17719 | .00021 | -.00054 | .00005 | .00140 | 255.30 | .00079 | .00218 | -.00076 | 5.1857 | .00096 | .00056 | .02403 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05983** | **-.00067** | **.00046** | **4.8945** | **.00052** | **.00298** | **10.228** | **.00019** | **.00093** | **.02400** |
| Stddev | .01188 | .00006 | .00010 | .0062 | .00006 | .00044 | .004 | .00061 | .00017 | .00159 |
| %RSD | 19.855 | 8.9175 | 22.718 | .12667 | 12.131 | 14.784 | .03504 | 326.73 | 18.264 | 6.6312 |
| #1 | .06823 | -.00071 | .00053 | 4.8901 | .00057 | .00266 | 10.226 | .00062 | .00105 | .02287 |
| #2 | .05143 | -.00063 | .00038 | 4.8989 | .00048 | .00329 | 10.231 | -.00024 | .00081 | .02512 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9031.2** | **110930.** | **9669.5** |
| Stddev | 18.2 | 767. | 42.8 |
| %RSD | .20178 | .69166 | .44279 |
| #1 | 9018.3 | 110390. | 9639.2 |
| #2 | 9044.1 | 111470. | 9699.8 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 3:22:31 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49867** | **.51594** | **1.0126** | **.51909** | **.50589** | **.49634** | **.00550** | **5.0089** | **.51470** | **.51184** | **.50285** | **.50729** | **2.5201** |
| Stddev | .00048 | .00042 | .0025 | .00132 | .00127 | .00042 | .00030 | .0027 | .00087 | .00047 | .00034 | .00021 | .0078 |
| %RSD | .09616 | .08063 | .25117 | .25501 | .25007 | .08531 | 5.5141 | .05289 | .16844 | .09145 | .06719 | .04149 | .31072 |
| #1 | .49900 | .51564 | 1.0108 | .51816 | .50678 | .49664 | .00528 | 5.0107 | .51409 | .51150 | .50309 | .50714 | 2.5256 |
| #2 | .49833 | .51623 | 1.0144 | .52003 | .50499 | .49604 | .00571 | 5.0070 | .51531 | .51217 | .50261 | .50744 | 2.5146 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.867** | **.97017** | **19.237** | **.49563** | **.50419** | **5.1910** | **.50899** | **1.0182** | **1.0226** | **.00607** | **1.0452** | **1.0338** | **4.9006** |
| Stddev | .020 | .00242 | .008 | .00085 | .00006 | .0160 | .00053 | .0014 | .0001 | .00011 | .0034 | .0056 | .0030 |
| %RSD | .03963 | .24949 | .04069 | .17070 | .01129 | .30882 | .10454 | .13619 | .00809 | 1.7785 | .32892 | .54225 | .06088 |
| #1 | 49.881 | .97188 | 19.243 | .49503 | .50415 | 5.2023 | .50937 | 1.0192 | 1.0226 | .00615 | 1.0428 | 1.0298 | 4.8985 |
| #2 | 49.853 | .96846 | 19.232 | .49622 | .50423 | 5.1797 | .50861 | 1.0172 | 1.0227 | .00600 | 1.0477 | 1.0378 | 4.9027 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.487** | **1.0137** | **.50569** | **-.00202** | **.49964** | **1.0470** | **-.03301** | **.49967** | **.48354** | **.50404** |
| Stddev | .006 | .0013 | .00023 | .00115 | .00120 | .0017 | .01917 | .00071 | .00110 | .00266 |
| %RSD | .06088 | .12495 | .04506 | 56.832 | .23960 | .16383 | 58.068 | .14257 | .22848 | .52715 |
| #1 | 10.483 | 1.0146 | .50553 | -.00282 | .49879 | 1.0458 | -.01945 | .50018 | .48432 | .50591 |
| #2 | 10.492 | 1.0128 | .50585 | -.00121 | .50049 | 1.0482 | -.04656 | .49917 | .48276 | .50216 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9256.5** | **114490.** | **9781.4** |
| Stddev | 23.0 | 12. | 11.5 |
| %RSD | .24827 | .01013 | .11716 |
| #1 | 9240.3 | 114500. | 9789.6 |
| #2 | 9272.8 | 114490. | 9773.3 |

Sample Name: CCB  Acquired: 8/16/2013 3:24:38  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00080** | **.00082** | **.00206** | **-.00017** | **.00007** | **.00358** | **.00161** | **.00012** | **.00010** | **-.00011** | **-.00086** |
| Stddev | .00076 | .00051 | .00076 | .00024 | .00048 | .00002 | .00147 | .00171 | .00004 | .00005 | .00000 | .00012 |
| %RSD | 3249.2 | 63.365 | 92.615 | 11.608 | 283.17 | 34.060 | 41.213 | 106.25 | 35.212 | 47.821 | 3.2952 | 13.340 |
| #1 | -.00051 | .00116 | .00028 | .00223 | .00017 | .00005 | .00462 | .00040 | .00015 | .00007 | -.00011 | -.00094 |
| #2 | .00056 | .00044 | .00136 | .00189 | -.00051 | .00009 | .00253 | .00281 | .00009 | .00014 | -.00012 | -.00078 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00202** | **.10360** | **-.00102** | **.00323** | **.00006** | **.00066** | W **.13944** | **.00031** | **.00048** | **-.00088** | **.00615** | **.00272** |
| Stddev | .00124 | .02667 | .00255 | .00190 | .00005 | .00004 | .01801 | .00024 | .00083 | .00108 | .00280 | .00411 |
| %RSD | 61.228 | 25.747 | 250.35 | 58.874 | 86.485 | 6.6656 | 12.919 | 76.813 | 172.13 | 123.33 | 45.483 | 151.29 |
| #1 | .00290 | .08474 | -.00282 | .00457 | .00002 | .00069 | .15218 | .00014 | -.00010 | -.00011 | .00812 | -.00019 |
| #2 | .00115 | .12246 | .00079 | .00188 | .00010 | .00062 | .12670 | .00049 | .00107 | -.00164 | .00417 | .00562 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .09160 | | | | | |
| Low Limit | | | | | | | -.09160 | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00366** | **.01515** | **.03242** | **-.00088** | **.00008** | **-.00005** | W **.00076** | **.00012** | **.01663** | **-.00025** | **.00199** | W **.00397** |
| Stddev | .00243 | .00485 | .01037 | .00049 | .00001 | .00027 | .00020 | .00028 | .00966 | .00014 | .00005 | .00171 |
| %RSD | 66.376 | 31.990 | 31.990 | 55.380 | 15.497 | 538.00 | 25.885 | 225.09 | 58.103 | 55.539 | 2.6904 | 43.154 |
| #1 | .00538 | .01172 | .02509 | -.00123 | .00007 | -.00024 | .00062 | .00032 | .02346 | -.00015 | .00203 | .00276 |
| #2 | .00194 | .01858 | .03976 | -.00054 | .00009 | .00014 | .00090 | -.00007 | .00980 | -.00035 | .00196 | .00518 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .00060 | | | | | .00238 |
| Low Limit | | | | | | | -.00060 | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9272.4** | **116050.** | **9605.5** |
| Stddev | 31.5 | 672. | 16.7 |
| %RSD | .33944 | .57871 | .17375 |
| #1 | 9250.1 | 116530. | 9593.7 |
| #2 | 9294.7 | 115580. | 9617.3 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 3:26:55 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01044** | **.11269** | **.01487** | **.10323** | **.01028** | **.00105** | **.12243** | **.20920** | **.00543** | **.01097** | **.01022** | **.01513** | **.10187** |
| Stddev | .00045 | .00080 | .00086 | .00105 | .00018 | .00003 | .00386 | .00144 | .00015 | .00016 | .00000 | .00065 | .00117 |
| %RSD | 4.2858 | .70986 | 5.7790 | 1.0131 | 1.7936 | 3.2668 | 3.1533 | .69020 | 2.8111 | 1.4201 | .00603 | 4.3195 | 1.1500 |
| #1 | .01013 | .11212 | .01427 | .10397 | .01041 | .00103 | .11970 | .21022 | .00554 | .01086 | .01022 | .01466 | .10104 |
| #2 | .01076 | .11326 | .01548 | .10249 | .01015 | .00107 | .12516 | .20818 | .00532 | .01108 | .01022 | .01559 | .10269 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1515** | F **.01529** | **.20604** | **.01038** | **.01961** | **1.1699** | **.04255** | **3.0019** | **.00913** | **.00142** | F **.00633** | **.01811** | **.48716** |
| Stddev | .0333 | .00048 | .00177 | .00005 | .00003 | .0177 | .00019 | .0045 | .00066 | .00029 | .00238 | .00290 | .00286 |
| %RSD | 1.0554 | 3.1357 | .85946 | .48921 | .15093 | 1.5174 | .43823 | .15103 | 7.2692 | 20.587 | 37.667 | 15.982 | .58726 |
| #1 | 3.1750 | .01496 | .20730 | .01042 | .01963 | 1.1825 | .04241 | 2.9987 | .00960 | .00162 | .00801 | .01607 | .48514 |
| #2 | 3.1280 | .01563 | .20479 | .01035 | .01959 | 1.1574 | .04268 | 3.0051 | .00866 | .00121 | .00464 | .02016 | .48919 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | .01000 | | | | | | | | | .01000 | | |
| Range | | 30.000% | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0425** | **.10223** | **.01037** | **.01405** | **.01032** | **.01786** | F **.08401** | **.00958** | **.02225** | **.01836** |
| Stddev | .0061 | .00065 | .00011 | .00067 | .00008 | .00053 | .01928 | .00067 | .00020 | .00053 |
| %RSD | .58726 | .63127 | 1.0971 | 4.7934 | .73657 | 2.9541 | 22.953 | 6.9654 | .88954 | 2.8603 |
| #1 | 1.0382 | .10178 | .01029 | .01357 | .01027 | .01823 | .07037 | .00910 | .02211 | .01874 |
| #2 | 1.0469 | .10269 | .01045 | .01453 | .01038 | .01748 | .09764 | .01005 | .02239 | .01799 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | 30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9446.8** | **117330.** | **9663.7** |
| Stddev | 7.5 | 254. | 28.3 |
| %RSD | .07915 | .21654 | .29234 |
| #1 | 9441.5 | 117510. | 9643.7 |
| #2 | 9452.1 | 117150. | 9683.7 |

Sample Name: 280-45454-e-3-a  Acquired: 8/16/2013 3:29:12  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **7.2731** | **.00069** | **.01690** | **.13785** | **.00028** | **.00065** | **31.325** | **.00038** | **.00186** |
| Stddev | .00025 | .0029 | .00255 | .00012 | .00068 | .00000 | .00284 | .064 | .00014 | .00006 |
| %RSD | 46.193 | .03935 | 367.29 | .70949 | .49228 | 1.0622 | 435.14 | .20562 | 37.751 | 3.4872 |
| #1 | .00037 | 7.2710 | -.00111 | .01681 | .13737 | .00029 | -.00135 | 31.279 | .00028 | .00190 |
| #2 | .00073 | 7.2751 | .00250 | .01698 | .13833 | .00028 | .00266 | 31.370 | .00048 | .00181 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00515** | **.00669** | **5.7302** | **2.8952** | **.00843** | **7.3494** | **.11161** | **.00081** | **13.638** | **.00378** |
| Stddev | .00010 | .00031 | .0210 | .0465 | .00226 | .0033 | .00022 | .00015 | .099 | .00016 |
| %RSD | 1.8814 | 4.6238 | .36564 | 1.6076 | 26.797 | .04439 | .19453 | 18.686 | .72340 | 4.2949 |
| #1 | .00508 | .00691 | 5.7154 | 2.8623 | .01002 | 7.3471 | .11145 | .00070 | 13.708 | .00389 |
| #2 | .00522 | .00647 | 5.7450 | 2.9281 | .00683 | 7.3517 | .11176 | .00091 | 13.568 | .00366 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11754** | **.00125** | **12.748** | **-.00350** | **.00384** | **17.199** | **36.806** | **-.00089** | **.28993** | **.00293** |
| Stddev | .00092 | .00068 | .001 | .00123 | .00179 | .067 | .143 | .00001 | .00000 | .00090 |
| %RSD | .78253 | 54.121 | .00432 | 35.264 | 46.735 | .38923 | .38923 | 1.4280 | .00092 | 30.870 |
| #1 | .11689 | .00173 | 12.748 | -.00262 | .00257 | 17.152 | 36.705 | -.00090 | .28993 | .00357 |
| #2 | .11819 | .00077 | 12.747 | -.00437 | .00511 | 17.247 | 36.908 | -.00088 | .28993 | .00229 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12699** | **.00044** | W **-.05077** | **.01117** | **.02030** | **.00758** |
| Stddev | .00237 | .00064 | .02641 | .00039 | .00040 | .00019 |
| %RSD | 1.8633 | 147.37 | 52.028 | 3.4692 | 1.9673 | 2.4484 |
| #1 | .12867 | .00089 | -.06945 | .01144 | .02058 | .00744 |
| #2 | .12532 | -.00002 | -.03209 | .01089 | .02002 | .00771 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9359.4** | **115060.** | **9773.3** |
| Stddev | 34.3 | 60. | 12.9 |
| %RSD | .36670 | .05191 | .13243 |
| #1 | 9335.1 | 115100. | 9782.4 |
| #2 | 9383.7 | 115020. | 9764.1 |

Sample Name: 280-45454-e-4-a  Acquired: 8/16/2013 3:31:27  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00015** | **4.4990** | **.00230** | **.01193** | **.09587** | **.00024** | **.00370** | **23.251** | **.00024** | **.00135** |
| Stddev | .00017 | .0032 | .00129 | .00010 | .00015 | .00003 | .00011 | .041 | .00010 | .00002 |
| %RSD | 113.14 | .07133 | 55.993 | .80354 | .15405 | 12.384 | 2.9399 | .17561 | 43.153 | 1.5739 |
| #1 | -.00003 | 4.5013 | .00322 | .01187 | .09597 | .00022 | .00363 | 23.280 | .00017 | .00134 |
| #2 | -.00027 | 4.4968 | .00139 | .01200 | .09576 | .00026 | .00378 | 23.222 | .00032 | .00137 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00335** | **.00423** | **3.8371** | **1.9343** | **.00830** | **5.4239** | **.07679** | **.00050** | **9.4403** | W **10.273** |
| Stddev | .00003 | .00011 | .0017 | .0510 | .00349 | .0037 | .00011 | .00011 | .0045 | .143 |
| %RSD | .81981 | 2.7159 | .04429 | 2.6356 | 42.044 | .06859 | .14609 | 21.616 | .04746 | 1.3875 |
| #1 | .00333 | .00431 | 3.8383 | 1.9703 | .01077 | 5.4265 | .07686 | .00058 | 9.4371 | 10.374 |
| #2 | .00337 | .00414 | 3.8359 | 1.8982 | .00583 | 5.4212 | .07671 | .00042 | 9.4435 | 10.173 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00300** | **.08191** | **.00175** | **9.7073** | **-.00571** | **.00220** | **11.141** | **23.843** | **-.00085** | **.21533** |
| Stddev | .00019 | .00158 | .00080 | .0057 | .00062 | .00125 | .007 | .015 | .00018 | .00021 |
| %RSD | 6.4804 | 1.9248 | 45.653 | .05834 | 10.790 | 56.589 | .06453 | .06453 | 21.611 | .09893 |
| #1 | .00286 | .08302 | .00232 | 9.7033 | -.00527 | .00132 | 11.147 | 23.854 | -.00072 | .21548 |
| #2 | .00313 | .08079 | .00119 | 9.7113 | -.00614 | .00308 | 11.136 | 23.832 | -.00097 | .21518 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00202** | **.07154** | **.00077** | **-.04467** | **.00758** | **.01397** | **.00548** |
| Stddev | .00073 | .00309 | .00042 | .00421 | .00010 | .00017 | .00092 |
| %RSD | 36.234 | 4.3155 | 54.617 | 9.4343 | 1.3148 | 1.1828 | 16.808 |
| #1 | .00150 | .06935 | .00047 | -.04765 | .00751 | .01409 | .00613 |
| #2 | .00253 | .07372 | .00107 | -.04169 | .00765 | .01385 | .00483 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9423.1** | **116080.** | **9850.1** |
| Stddev | 12.6 | 135. | 72.8 |
| %RSD | .13389 | .11666 | .73882 |
| #1 | 9432.0 | 116170. | 9901.6 |
| #2 | 9414.2 | 115980. | 9798.6 |

Sample Name: 280-45454-e-5-a  Acquired: 8/16/2013 3:33:43  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **25.350** | **.00580** | **.03101** | **.54842** | **.00163** | **-.00280** | **78.054** | **.00138** | **.01405** |
| Stddev | .00025 | .046 | .00089 | .00018 | .00158 | .00005 | .00216 | .116 | .00013 | .00014 |
| %RSD | 364.23 | .18052 | 15.279 | .59508 | .28896 | 3.0496 | 77.238 | .14873 | 9.3284 | 1.0310 |
| #1 | .00011 | 25.318 | .00643 | .03115 | .54730 | .00166 | -.00127 | 77.972 | .00147 | .01415 |
| #2 | -.00025 | 25.382 | .00517 | .03088 | .54954 | .00159 | -.00433 | 78.136 | .00129 | .01395 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01959** | **.04958** | **23.154** | **10.607** | **.03074** | **33.683** | **.73299** | **.00137** | **151.43** | **.02061** |
| Stddev | .00018 | .00055 | .105 | .022 | .00106 | .015 | .00015 | .00016 | .09 | .00019 |
| %RSD | .92662 | 1.1168 | .45242 | .20477 | 3.4381 | .04430 | .02084 | 11.986 | .06205 | .92935 |
| #1 | .01972 | .04919 | 23.080 | 10.623 | .03000 | 33.694 | .73288 | .00125 | 151.50 | .02047 |
| #2 | .01946 | .04997 | 23.228 | 10.592 | .03149 | 33.673 | .73310 | .00149 | 151.37 | .02075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38898** | **.02127** | **109.84** | **-.00451** | **.00231** | **38.264** | **81.886** | **-.00002** | **1.5354** | **.01190** |
| Stddev | .00100 | .00060 | .08 | .00049 | .00292 | .158 | .338 | .00021 | .0010 | .00017 |
| %RSD | .25686 | 2.8007 | .07364 | 10.894 | 126.47 | .41331 | .41331 | 1023.8 | .06580 | 1.3989 |
| #1 | .38969 | .02169 | 109.90 | -.00486 | .00437 | 38.153 | 81.647 | -.00017 | 1.5361 | .01178 |
| #2 | .38827 | .02085 | 109.78 | -.00417 | .00024 | 38.376 | 82.125 | .00013 | 1.5347 | .01202 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19357** | **.00070** | W **-.08854** | **.04771** | **.11919** | **.01004** |
| Stddev | .00056 | .00009 | .00174 | .00018 | .00108 | .00215 |
| %RSD | .28771 | 12.668 | 1.9596 | .37039 | .90974 | 21.442 |
| #1 | .19317 | .00076 | -.08731 | .04783 | .11842 | .01156 |
| #2 | .19396 | .00063 | -.08977 | .04758 | .11995 | .00852 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9157.9** | **111830.** | **9751.7** |
| Stddev | 23.7 | 401. | 42.4 |
| %RSD | .25919 | .35897 | .43507 |
| #1 | 9174.7 | 112110. | 9721.7 |
| #2 | 9141.1 | 111540. | 9781.7 |

Sample Name: 280-45454-e-6-a  Acquired: 8/16/2013 3:35:58  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00009** | **.38257** | **-.00024** | **.02666** | **.10675** | **.00000** | **.00286** | **64.858** | **.00056** | **.00020** |
| Stddev | .00059 | .00025 | .00027 | .00035 | .00003 | .0000 | .00204 | .219 | .00001 | .00003 |
| %RSD | 658.12 | .06463 | 114.57 | 1.3216 | .02621 | 539.48 | 71.260 | .33801 | 1.7664 | 13.170 |
| #1 | -.00050 | .38240 | -.00043 | .02691 | .10673 | -.00002 | .00430 | 64.703 | .00057 | .00022 |
| #2 | .00033 | .38275 | -.00004 | .02641 | .10677 | .00001 | .00142 | 65.013 | .00055 | .00019 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00033** | **.00105** | **.29707** | **4.2901** | **.05188** | **40.590** | **.03753** | **.00090** | **229.05** | **.00102** |
| Stddev | .00006 | .00044 | .00207 | .0362 | .00094 | .107 | .00012 | .00003 | .21 | .00036 |
| %RSD | 19.200 | 41.940 | .69561 | .84340 | 1.8114 | .26461 | .32871 | 3.1184 | .09079 | 35.216 |
| #1 | .00028 | .00137 | .29853 | 4.2645 | .05255 | 40.665 | .03762 | .00092 | 228.90 | .00127 |
| #2 | .00037 | .00074 | .29561 | 4.3157 | .05122 | 40.514 | .03744 | .00088 | 229.20 | .00076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01004** | **-.00066** | **117.70** | **-.00241** | **.00278** | **4.7575** | **10.181** | **-.00127** | **1.9768** | **.00111** |
| Stddev | .00134 | .00047 | .05 | .00119 | .00118 | .0097 | .021 | .00015 | .0014 | .00077 |
| %RSD | 13.339 | 70.508 | .04022 | 49.395 | 42.365 | .20352 | .20352 | 11.689 | .06896 | 69.294 |
| #1 | .00909 | -.00099 | 117.67 | -.00325 | .00195 | 4.7506 | 10.166 | -.00138 | 1.9758 | .00057 |
| #2 | .01098 | -.00033 | 117.74 | -.00157 | .00362 | 4.7643 | 10.196 | -.00117 | 1.9778 | .00166 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00985** | **.00148** | **-.02374** | **.00074** | **.00360** | **.00674** |
| Stddev | .00099 | .00019 | .01373 | .00013 | .00019 | .00127 |
| %RSD | 10.046 | 12.525 | 57.851 | 17.290 | 5.3260 | 18.848 |
| #1 | .01055 | .00161 | -.01403 | .00083 | .00346 | .00584 |
| #2 | .00915 | .00135 | -.03345 | .00065 | .00373 | .00764 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8783.8** | **108950.** | **9615.8** |
| Stddev | 4.4 | 746. | 87.5 |
| %RSD | .04969 | .68436 | .91009 |
| #1 | 8780.7 | 108420. | 9677.7 |
| #2 | 8786.9 | 109480. | 9554.0 |

Sample Name: 280-45454-e-7-a  Acquired: 8/16/2013 3:38:19  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.01011** | **.00209** | **.02677** | **-.00001** | **.00004** | **-.00028** | **.02977** | **.00005** | **.00004** |
| Stddev | .00057 | .00010 | .00024 | .00004 | .00028 | .00004 | .00101 | .00083 | .00003 | .00008 |
| %RSD | 145.46 | .98345 | 11.481 | .15591 | 2861.0 | 87.796 | 357.06 | 2.7747 | 59.231 | 203.39 |
| #1 | .00080 | .01004 | .00226 | .02679 | -.00021 | .00002 | -.00100 | .02919 | .00003 | -.00002 |
| #2 | -.00001 | .01018 | .00192 | .02674 | .00019 | .00007 | .00043 | .03036 | .00007 | .00010 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00335** | **-.00061** | **.00792** | **.15503** | **.00138** | **.00483** | **.00042** | **.00006** | **.23463** | **.00092** |
| Stddev | .00002 | .00025 | .00007 | .03373 | .00195 | .00201 | .00002 | .00017 | .01876 | .00007 |
| %RSD | .49873 | 40.839 | .86842 | 21.755 | 141.95 | 41.709 | 4.4062 | 302.12 | 7.9972 | 7.4760 |
| #1 | .00337 | -.00079 | .00787 | .13118 | -.00001 | .00625 | .00040 | -.00006 | .24790 | .00087 |
| #2 | .00334 | -.00044 | .00797 | .17888 | .00276 | .00340 | .00043 | .00018 | .22136 | .00096 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00213** | **-.00089** | **.02077** | **-.00348** | **.00238** | **.02376** | **.05084** | **-.00048** | **.00035** | **.00118** |
| Stddev | .00041 | .00119 | .00248 | .00035 | .00185 | .00445 | .00953 | .00090 | .00011 | .00154 |
| %RSD | 19.382 | 133.54 | 11.936 | 9.9964 | 77.868 | 18.749 | 18.749 | 187.87 | 30.098 | 130.22 |
| #1 | .00184 | -.00174 | .02252 | -.00324 | .00107 | .02061 | .04410 | .00016 | .00043 | .00226 |
| #2 | .00242 | -.00005 | .01901 | -.00373 | .00369 | .02691 | .05758 | -.00112 | .00028 | .00009 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00095** | **-.00031** | **-.00335** | **-.00059** | **.00229** | **.00489** |
| Stddev | .00011 | .00046 | .02283 | .00014 | .00023 | .00072 |
| %RSD | 11.937 | 146.34 | 681.58 | 23.388 | 10.159 | 14.670 |
| #1 | .00087 | -.00063 | -.01949 | -.00068 | .00213 | .00539 |
| #2 | .00103 | .00001 | .01279 | -.00049 | .00246 | .00438 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9271.1** | **116160.** | **9554.4** |
| Stddev | 18.5 | 1075. | 109.1 |
| %RSD | .19959 | .92498 | 1.1415 |
| #1 | 9258.0 | 115400. | 9631.5 |
| #2 | 9284.2 | 116920. | 9477.2 |

Sample Name: 280-45454-e-8-a  Acquired: 8/16/2013 3:40:36  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00004** | **3.3456** | **.00096** | **.01482** | **.10596** | **.00015** | **.00243** | **32.785** | **.00041** | **.00096** |
| Stddev | .00008 | .0195 | .00074 | .00008 | .00049 | .00006 | .00091 | .102 | .00016 | .00002 |
| %RSD | 202.96 | .58371 | 77.426 | .52935 | .45914 | 38.600 | 37.634 | .31173 | 38.228 | 1.8457 |
| #1 | .00010 | 3.3318 | .00148 | .01487 | .10562 | .00019 | .00307 | 32.713 | .00052 | .00095 |
| #2 | -.00002 | 3.3594 | .00043 | .01476 | .10631 | .00011 | .00178 | 32.858 | .00030 | .00098 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00277** | **.00331** | **2.5065** | **2.2432** | **.00677** | **7.4953** | **.05058** | **.00057** | **15.740** | **.00226** |
| Stddev | .00003 | .00020 | .0069 | .0460 | .00320 | .0044 | .00001 | .00001 | .059 | .00048 |
| %RSD | 1.1639 | 6.1688 | .27402 | 2.0501 | 47.307 | .05866 | .02895 | 1.2300 | .37654 | 21.214 |
| #1 | .00279 | .00317 | 2.5017 | 2.2757 | .00903 | 7.4922 | .05057 | .00057 | 15.699 | .00260 |
| #2 | .00274 | .00346 | 2.5114 | 2.2107 | .00450 | 7.4984 | .05059 | .00058 | 15.782 | .00192 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05099** | **.00066** | **13.986** | **-.00276** | **.00148** | **10.585** | **22.651** | **-.00104** | **.32740** | **-.00034** |
| Stddev | .00006 | .00131 | .003 | .00012 | .00005 | .051 | .109 | .00044 | .00171 | .00211 |
| %RSD | .12056 | 198.73 | .01898 | 4.2968 | 3.0886 | .48266 | .48266 | 42.043 | .52236 | 618.87 |
| #1 | .05103 | -.00027 | 13.988 | -.00268 | .00151 | 10.548 | 22.574 | -.00073 | .32619 | .00115 |
| #2 | .05094 | .00158 | 13.984 | -.00284 | .00144 | 10.621 | 22.728 | -.00135 | .32861 | -.00183 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05952** | **.00128** | **-.00290** | **.00559** | **.01145** | **.00634** |
| Stddev | .00063 | .00026 | .01701 | .00072 | .00040 | .00159 |
| %RSD | 1.0522 | 20.357 | 586.44 | 12.967 | 3.4794 | 25.100 |
| #1 | .05908 | .00109 | -.01493 | .00507 | .01117 | .00522 |
| #2 | .05997 | .00146 | .00913 | .00610 | .01173 | .00747 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9295.2** | **114770.** | **9660.3** |
| Stddev | 1.8 | 618. | 32.9 |
| %RSD | .01884 | .53855 | .34096 |
| #1 | 9296.5 | 115210. | 9683.6 |
| #2 | 9294.0 | 114340. | 9637.0 |

Sample Name: 280-45454-e-9-a  Acquired: 8/16/2013 3:42:54  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187264  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00014** | **11.455** | **.00237** | **.01822** | **.18432** | **.00054** | **.00111** | **21.423** | **.00040** | **.00327** |
| Stddev | .00031 | .031 | .00049 | .00010 | .00013 | .00005 | .00051 | .065 | .00020 | .00024 |
| %RSD | 216.34 | .26676 | 20.597 | .56160 | .06908 | 9.9767 | 45.346 | .30330 | 50.457 | 7.3687 |
| #1 | .00008 | 11.433 | .00272 | .01830 | .18423 | .00058 | .00147 | 21.377 | .00026 | .00344 |
| #2 | -.00036 | 11.476 | .00203 | .01815 | .18441 | .00051 | .00076 | 21.469 | .00055 | .00310 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00786** | **.01472** | **7.6425** | **5.9679** | **.01394** | **7.9277** | **.09092** | **.00069** | **27.478** | **.00642** |
| Stddev | .00004 | .00007 | .0288 | .0148 | .00102 | .0271 | .00016 | .00006 | .236 | .00030 |
| %RSD | .46498 | .45856 | .37645 | .24834 | 7.3162 | .34182 | .17951 | 8.3792 | .85845 | 4.6690 |
| #1 | .00788 | .01477 | 7.6222 | 5.9574 | .01322 | 7.9085 | .09081 | .00074 | 27.311 | .00664 |
| #2 | .00783 | .01467 | 7.6629 | 5.9784 | .01466 | 7.9469 | .09104 | .00065 | 27.645 | .00621 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11365** | **.00530** | **18.462** | **-.00430** | **.00216** | **20.640** | **44.169** | **-.00064** | **.41955** | **.00465** |
| Stddev | .00135 | .00003 | .030 | .00089 | .00375 | .063 | .135 | .00015 | .00128 | .00238 |
| %RSD | 1.1861 | .63899 | .16410 | 20.641 | 173.69 | .30582 | .30582 | 24.108 | .30457 | 51.268 |
| #1 | .11460 | .00532 | 18.484 | -.00367 | -.00049 | 20.595 | 44.074 | -.00053 | .41864 | .00296 |
| #2 | .11270 | .00527 | 18.441 | -.00493 | .00481 | 20.685 | 44.265 | -.00075 | .42045 | .00634 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14391** | **-.00015** | **-.03134** | **.01931** | **.03963** | **.00859** |
| Stddev | .00057 | .00001 | .05905 | .00014 | .00034 | .00005 |
| %RSD | .39723 | 5.1704 | 188.41 | .71750 | .84590 | .58623 |
| #1 | .14350 | -.00015 | .01041 | .01940 | .03939 | .00855 |
| #2 | .14431 | -.00014 | -.07309 | .01921 | .03987 | .00862 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9452.7** | **116650.** | **9976.7** |
| Stddev | 2.3 | 236. | 4.0 |
| %RSD | .02422 | .20272 | .04054 |
| #1 | 9454.3 | 116820. | 9979.6 |
| #2 | 9451.1 | 116480. | 9973.8 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 3:45:11 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00087** | **49.269** | **.00068** | **.00193** | **.00068** | **-.00004** | W **1.0514** | **-.00210** | **.00033** | **.00013** | **-.00017** | **.00303** |
| Stddev | .00064 | .157 | .00112 | .00035 | .00023 | .00008 | .0024 | .00068 | .00005 | .00005 | .00006 | .00023 |
| %RSD | 73.843 | .31887 | 165.59 | 18.078 | 34.596 | 199.98 | .22889 | 32.288 | 15.156 | 41.874 | 33.287 | 7.6510 |
| #1 | .00041 | 49.157 | .00147 | .00217 | .00084 | -.00009 | 1.0531 | -.00162 | .00030 | .00009 | -.00013 | .00319 |
| #2 | .00132 | 49.380 | -.00012 | .00168 | .00051 | .00002 | 1.0497 | -.00258 | .00037 | .00017 | -.00021 | .00286 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Warn | None | None | None | None | None |
| Value | | | | | | | 1.0000 | | | | | |
| Range | | | | | | | 5.0000% | | | | | |

| Elem | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.682** | **.19959** | **.00268** | **-.00114** | **.00005** | **-.00003** | **254.43** | **.00086** | **.00210** | **.00067** | **5.1592** | **-.00343** |
| Stddev | .423 | .01202 | .00210 | .00023 | .00006 | .00000 | .53 | .00002 | .00099 | .00144 | .0043 | .00040 |
| %RSD | .85222 | 6.0199 | 78.214 | 20.101 | 137.04 | 3.1159 | .20843 | 2.2712 | 47.044 | 214.86 | .08386 | 11.628 |
| #1 | 49.383 | .19109 | .00416 | -.00131 | .00000 | -.00003 | 254.06 | .00085 | .00280 | .00169 | 5.1622 | -.00315 |
| #2 | 49.982 | .20809 | .00120 | -.00098 | .00009 | -.00003 | 254.81 | .00088 | .00140 | -.00035 | 5.1561 | -.00372 |
| Check ? | Chk Pass | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00101** | **.01461** | **.03127** | **-.00071** | **.00041** | **4.8978** | **.00014** | **.00103** | **10.308** | **.00080** | **.00050** | **.02226** |
| Stddev | .00118 | .01093 | .02339 | .00007 | .00011 | .0013 | .00022 | .00017 | .026 | .00023 | .00019 | .00091 |
| %RSD | 117.20 | 74.782 | 74.782 | 9.7443 | 26.795 | .02721 | 161.77 | 16.546 | .25015 | 29.162 | 38.509 | 4.0957 |
| #1 | -.00017 | .02234 | .04781 | -.00066 | .00048 | 4.8969 | -.00002 | .00091 | 10.290 | .00064 | .00064 | .02161 |
| #2 | -.00184 | .00689 | .01474 | -.00076 | .00033 | 4.8988 | .00030 | .00115 | 10.326 | .00097 | .00036 | .02290 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8976.0** | **110840.** | **9599.9** |
| Stddev | 13.2 | 91. | 44.6 |
| %RSD | .14652 | .08218 | .46484 |
| #1 | 8966.7 | 110770. | 9631.4 |
| #2 | 8985.3 | 110900. | 9568.3 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 3:47:34 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.50010** | **.53243** | **1.0141** | **.51615** | **.50524** | **.49216** | **.00114** | **4.9717** | **.51205** | **.50698** | **.50274** | **.50499** | **2.5258** |
| Stddev | .00124 | .00171 | .0016 | .00061 | .00031 | .00052 | .00202 | .0064 | .00062 | .00075 | .00010 | .00117 | .0009 |
| %RSD | .24761 | .32100 | .16080 | .11861 | .06040 | .10540 | 178.07 | .12875 | .12186 | .14887 | .02077 | .23222 | .03614 |
| #1 | .49922 | .53122 | 1.0153 | .51658 | .50502 | .49253 | -.00029 | 4.9762 | .51161 | .50644 | .50282 | .50416 | 2.5264 |
| #2 | .50097 | .53364 | 1.0130 | .51572 | .50546 | .49180 | .00257 | 4.9672 | .51249 | .50751 | .50267 | .50582 | 2.5251 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.655** | **.96449** | **19.265** | **.49183** | **.50483** | **5.1694** | **.50727** | **1.0215** | **1.0205** | **.00656** | **1.0345** | **1.0300** | **4.9063** |
| Stddev | .007 | .00060 | .013 | .00060 | .00003 | .0063 | .00014 | .0012 | .0011 | .00198 | .0022 | .0005 | .0433 |
| %RSD | .01345 | .06200 | .06877 | .12106 | .00577 | .12257 | .02708 | .11247 | .10876 | 30.184 | .21217 | .04681 | .88323 |
| #1 | 49.659 | .96407 | 19.255 | .49225 | .50485 | 5.1649 | .50717 | 1.0223 | 1.0197 | .00796 | 1.0360 | 1.0303 | 4.8756 |
| #2 | 49.650 | .96491 | 19.274 | .49141 | .50481 | 5.1739 | .50737 | 1.0207 | 1.0213 | .00516 | 1.0329 | 1.0296 | 4.9369 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.499** | **1.0140** | **.50172** | **-.00400** | **.49296** | **1.0384** | **-.00544** | **.49580** | **.48309** | **.50140** |
| Stddev | .093 | .0030 | .00006 | .00041 | .00027 | .0063 | .01124 | .00087 | .00041 | .00370 |
| %RSD | .88323 | .29578 | .01220 | 10.167 | .05499 | .61175 | 206.69 | .17587 | .08408 | .73813 |
| #1 | 10.434 | 1.0119 | .50176 | -.00372 | .49316 | 1.0339 | -.01338 | .49518 | .48338 | .49878 |
| #2 | 10.565 | 1.0161 | .50168 | -.00429 | .49277 | 1.0429 | .00251 | .49642 | .48280 | .50402 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9180.7** | **114080.** | **9610.6** |
| Stddev | 15.1 | 271. | 14.9 |
| %RSD | .16462 | .23758 | .15459 |
| #1 | 9191.4 | 114270. | 9600.1 |
| #2 | 9170.0 | 113890. | 9621.2 |

Sample Name: CCB  Acquired: 8/16/2013 3:49:42  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00007** | **.00007** | **.00255** | **.00114** | **-.00011** | **.00002** | **.00455** | **-.00155** | **.00019** | **-.00001** | **-.00014** | **-.00048** |
| Stddev | .00046 | .00015 | .00102 | .00026 | .00013 | .00004 | .00225 | .00374 | .00001 | .00010 | .00006 | .00000 |
| %RSD | 635.27 | 230.99 | 39.951 | 23.161 | 126.93 | 225.18 | 49.399 | 241.32 | 2.7613 | 1955.4 | 42.522 | .23136 |
| #1 | .00025 | -.00004 | .00327 | .00132 | -.00020 | -.00001 | .00614 | -.00419 | .00018 | -.00008 | -.00019 | -.00048 |
| #2 | -.00040 | .00017 | .00183 | .00095 | -.00001 | .00005 | .00296 | .00109 | .00019 | .00007 | -.00010 | -.00048 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00334** | **.11787** | **.00155** | **.00365** | **.00007** | **.00064** | W **.14624** | **.00089** | **.00040** | **-.00149** | **.00192** | W **.00476** |
| Stddev | .00117 | .03484 | .00194 | .00403 | .00002 | .00011 | .00256 | .00010 | .00044 | .00016 | .00116 | .00464 |
| %RSD | 34.968 | 29.555 | 125.79 | 110.23 | 31.179 | 17.708 | 1.7502 | 11.447 | 109.54 | 10.701 | 60.167 | 97.548 |
| #1 | .00417 | .14250 | .00292 | .00650 | .00005 | .00056 | .14805 | .00082 | .00009 | -.00138 | .00274 | .00148 |
| #2 | .00251 | .09323 | .00017 | .00081 | .00008 | .00072 | .14443 | .00096 | .00071 | -.00161 | .00110 | .00804 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00153** | **.01507** | **.03224** | **-.00016** | **.00010** | **-.00003** | **.00044** | **.00039** | **-.00210** | **-.00063** | **.00123** | W **.00339** |
| Stddev | .00154 | .01384 | .02962 | .00025 | .00007 | .00012 | .00004 | .00081 | .02486 | .00010 | .00001 | .00030 |
| %RSD | 100.84 | 91.874 | 91.874 | 159.60 | 70.433 | 452.07 | 9.4986 | 208.84 | 1181.6 | 16.118 | .98307 | 8.9132 |
| #1 | .00044 | .00528 | .01130 | -.00034 | .00005 | -.00011 | .00047 | -.00018 | -.01968 | -.00070 | .00122 | .00360 |
| #2 | .00261 | .02485 | .05318 | .00002 | .00015 | .00006 | .00041 | .00096 | .01547 | -.00056 | .00124 | .00318 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9199.1** | **115720.** | **9495.0** |
| Stddev | 1.5 | 289. | 10.6 |
| %RSD | .01606 | .24979 | .11200 |
| #1 | 9200.1 | 115930. | 9487.5 |
| #2 | 9198.1 | 115520. | 9502.5 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 3:51:58 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01073** | **.10740** | **.01553** | **.10314** | **.01035** | **.00103** | **.12496** | **.20423** | **.00553** | **.01112** | **.01026** | **.01521** | **.10303** | **3.1762** |
| Stddev | .00054 | .00010 | .00097 | .00104 | .00004 | .00002 | .00035 | .00106 | .00004 | .00004 | .00014 | .00002 | .00184 | .0352 |
| %RSD | 5.0224 | .08870 | 6.2184 | 1.0078 | .43206 | 2.3367 | .27935 | .51894 | .78122 | .32116 | 1.3183 | .12262 | 1.7888 | 1.1070 |
| #1 | .01034 | .10747 | .01621 | .10388 | .01032 | .00101 | .12521 | .20348 | .00556 | .01115 | .01036 | .01522 | .10173 | 3.2011 |
| #2 | .01111 | .10734 | .01485 | .10241 | .01038 | .00105 | .12472 | .20498 | .00550 | .01110 | .01017 | .01519 | .10434 | 3.1514 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01153** | **.20595** | **.01033** | **.01988** | **1.1719** | **.04293** | **3.0482** | **.00896** | **.00281** | **.00738** | **.01647** | **.49880** | **1.0674** | **.10257** |
| Stddev | .00168 | .00154 | .00007 | .00001 | .0086 | .00040 | .0088 | .00031 | .00002 | .00154 | .00040 | .00762 | .0163 | .00147 |
| %RSD | 14.548 | .74942 | .71968 | .04235 | .73110 | .92656 | .28980 | 3.4733 | .60752 | 20.934 | 2.4074 | 1.5284 | 1.5284 | 1.4290 |
| #1 | .01034 | .20486 | .01028 | .01989 | 1.1779 | .04321 | 3.0545 | .00918 | .00282 | .00628 | .01619 | .50419 | 1.0790 | .10361 |
| #2 | .01271 | .20704 | .01038 | .01988 | 1.1658 | .04265 | 3.0420 | .00874 | .00280 | .00847 | .01675 | .49341 | 1.0559 | .10154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01035** | **.01535** | **.01036** | **.01838** | **.05191** | **.00934** | **.02139** | **.01789** |
| Stddev | .00002 | .00007 | .00035 | .00074 | .01812 | .00040 | .00045 | .00036 |
| %RSD | .15321 | .45272 | 3.4201 | 4.0403 | 34.910 | 4.3123 | 2.1020 | 2.0187 |
| #1 | .01036 | .01530 | .01011 | .01785 | .03910 | .00906 | .02171 | .01815 |
| #2 | .01034 | .01540 | .01061 | .01890 | .06472 | .00963 | .02108 | .01763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9448.0** | **118470.** | **9749.3** |
| Stddev | 10.1 | 160. | 40.5 |
| %RSD | .10686 | .13522 | .41588 |
| #1 | 9455.2 | 118360. | 9778.0 |
| #2 | 9440.9 | 118580. | 9720.6 |

Sample Name: mb 280-187267/1-a  Acquired: 8/16/2013 3:54:15  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00023** | **.00227** | **.00180** | **.00105** | **-.00001** | **.00003** | **.00536** | **.00625** | **-.00002** | **.00008** |
| Stddev | .00044 | .00015 | .00056 | .00021 | .00018 | .00000 | .00034 | .00022 | .00001 | .00014 |
| %RSD | 188.61 | 6.4260 | 31.087 | 20.062 | 1974.3 | 10.220 | 6.4202 | 3.5992 | 60.942 | 172.10 |
| #1 | -.00008 | .00237 | .00140 | .00120 | -.00013 | .00003 | .00560 | .00609 | -.00003 | .00019 |
| #2 | .00055 | .00217 | .00219 | .00090 | .00011 | .00003 | .00512 | .00641 | -.00001 | -.00002 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00002** | **-.00071** | **.00901** | **.08609** | **.00203** | **.00527** | **.00023** | **.00011** | **.13126** | **.00003** |
| Stddev | .00007 | .00040 | .00186 | .00128 | .00261 | .00066 | .00004 | .00021 | .00019 | .00013 |
| %RSD | 281.93 | 55.664 | 20.598 | 1.4824 | 128.45 | 12.470 | 15.589 | 188.40 | .14302 | 398.76 |
| #1 | -.00007 | -.00043 | .00770 | .08699 | .00388 | .00574 | .00025 | .00026 | .13113 | -.00006 |
| #2 | .00002 | -.00099 | .01032 | .08519 | .00019 | .00481 | .00020 | -.00004 | .13139 | .00012 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00319** | **-.00057** | **.00350** | **-.00201** | **.00075** | **.00311** | **.00665** | **-.00149** | **.00011** | **.00245** |
| Stddev | .00031 | .00037 | .00186 | .00160 | .00196 | .00091 | .00194 | .00040 | .00007 | .00055 |
| %RSD | 9.8086 | 64.718 | 53.014 | 79.570 | 261.57 | 29.155 | 29.155 | 27.111 | 66.638 | 22.590 |
| #1 | .00296 | -.00031 | .00481 | -.00314 | .00214 | .00247 | .00528 | -.00177 | .00006 | .00284 |
| #2 | .00341 | -.00083 | .00219 | -.00088 | -.00064 | .00375 | .00803 | -.00120 | .00016 | .00205 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **.00060** | **-.04186** | **-.00088** | **.00196** | **.00346** |
| Stddev | .00032 | .00034 | .00765 | .00007 | .00042 | .00047 |
| %RSD | 62.494 | 56.825 | 18.277 | 7.8211 | 21.504 | 13.694 |
| #1 | .00028 | .00036 | -.04727 | -.00093 | .00167 | .00313 |
| #2 | .00073 | .00084 | -.03645 | -.00083 | .00226 | .00380 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9403.2** | **118510.** | **9751.6** |
| Stddev | 15.6 | 76. | 5.6 |
| %RSD | .16617 | .06389 | .05744 |
| #1 | 9392.1 | 118560. | 9747.6 |
| #2 | 9414.2 | 118450. | 9755.5 |

Sample Name: lcs 280-187267/2-a  Acquired: 8/16/2013 3:56:31  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04910** | **1.9091** | **1.0225** | **1.0223** | **2.0348** | **.04953** | **2.1452** | **49.433** | **.10745** | **.49370** |
| Stddev | .00152 | .0005 | .0016 | .0014 | .0011 | .00015 | .0002 | .033 | .00011 | .00088 |
| %RSD | 3.0868 | .02636 | .15693 | .13606 | .05396 | .30700 | .00757 | .06736 | .10288 | .17795 |
| #1 | .05017 | 1.9094 | 1.0214 | 1.0213 | 2.0356 | .04964 | 2.1450 | 49.456 | .10753 | .49308 |
| #2 | .04803 | 1.9087 | 1.0236 | 1.0233 | 2.0340 | .04942 | 2.1453 | 49.409 | .10738 | .49432 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20037** | **.25428** | **1.0056** | **50.147** | **.96473** | **47.522** | **.48483** | **1.0113** | **51.790** | **.49579** |
| Stddev | .00011 | .00002 | .0047 | .076 | .00100 | .042 | .00063 | .0010 | .182 | .00169 |
| %RSD | .05254 | .00894 | .47009 | .15087 | .10382 | .08799 | .12958 | .10064 | .35078 | .34136 |
| #1 | .20044 | .25426 | 1.0022 | 50.093 | .96544 | 47.551 | .48438 | 1.0120 | 51.661 | .49699 |
| #2 | .20029 | .25429 | 1.0089 | 50.200 | .96403 | 47.492 | .48527 | 1.0106 | 51.918 | .49460 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.325** | **.49728** | **-.00657** | **.50125** | **2.0320** | **9.8980** | **21.182** | **2.0099** | **1.0095** | **.95775** |
| Stddev | .004 | .00040 | .00020 | .00106 | .0062 | .0237 | .051 | .0003 | .0003 | .00063 |
| %RSD | .03756 | .08069 | 3.0077 | .21145 | .30423 | .23923 | .23923 | .01264 | .02605 | .06620 |
| #1 | 10.323 | .49757 | -.00643 | .50200 | 2.0277 | 9.8813 | 21.146 | 2.0097 | 1.0093 | .95730 |
| #2 | 10.328 | .49700 | -.00671 | .50050 | 2.0364 | 9.9148 | 21.218 | 2.0101 | 1.0097 | .95820 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.99392** | **1.9752** | **2.1166** | **.50332** | **.47309** | **.51611** |
| Stddev | .00209 | .0023 | .0422 | .00019 | .00022 | .00023 |
| %RSD | .21009 | .11749 | 1.9926 | .03699 | .04627 | .04496 |
| #1 | .99244 | 1.9736 | 2.0867 | .50319 | .47293 | .51595 |
| #2 | .99539 | 1.9769 | 2.1464 | .50345 | .47324 | .51627 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9069.4** | **113020.** | **9725.1** |
| Stddev | 6.6 | 133. | 55.5 |
| %RSD | .07323 | .11729 | .57027 |
| #1 | 9064.7 | 113120. | 9685.9 |
| #2 | 9074.1 | 112930. | 9764.4 |

Sample Name: 280-45454-e-1-d  Acquired: 8/16/2013 3:58:37  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.10433** | **-.00132** | **.02697** | **.15447** | **.00006** | **.00173** | **140.93** | **.00079** | **.00149** |
| Stddev | .00032 | .00046 | .00009 | .00031 | .00044 | .00007 | .00290 | .49 | .00010 | .00018 |
| %RSD | 104.46 | .44107 | 6.7839 | 1.1615 | .28730 | 114.77 | 167.15 | .34484 | 12.968 | 11.765 |
| #1 | .00008 | .10400 | -.00139 | .02675 | .15478 | .00011 | .00378 | 140.58 | .00072 | .00137 |
| #2 | .00054 | .10465 | -.00126 | .02719 | .15415 | .00001 | -.00032 | 141.27 | .00086 | .00161 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00031** | **.00076** | **.13796** | **5.2166** | **.06100** | **88.796** | **.50024** | **.00208** | **178.40** | **.00145** |
| Stddev | .00003 | .00020 | .00018 | .0112 | .00062 | 1.764 | .00082 | .00047 | .46 | .00005 |
| %RSD | 8.3311 | 26.728 | .13295 | .21518 | 1.0194 | 1.9868 | .16317 | 22.532 | .25986 | 3.7228 |
| #1 | .00033 | .00090 | .13809 | 5.2087 | .06144 | 90.044 | .50082 | .00175 | 178.07 | .00141 |
| #2 | .00029 | .00062 | .13783 | 5.2245 | .06056 | 87.549 | .49966 | .00242 | 178.73 | .00149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01021** | **-.00085** | F **250.06** | **-.00294** | **.00352** | **5.3069** | **11.357** | **-.00082** | **3.4936** | **.00230** |
| Stddev | .00161 | .00064 | .76 | .00046 | .00110 | .0006 | .001 | .00021 | .0537 | .00094 |
| %RSD | 15.775 | 75.197 | .30216 | 15.501 | 31.175 | .01121 | .01121 | 26.052 | 1.5379 | 40.593 |
| #1 | .00907 | -.00131 | 250.60 | -.00262 | .00275 | 5.3073 | 11.358 | -.00067 | 3.4556 | .00164 |
| #2 | .01134 | -.00040 | 249.53 | -.00326 | .00430 | 5.3065 | 11.356 | -.00098 | 3.5316 | .00297 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 200.00 | | | | | | | |
| Low Limit | | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00300** | **.00182** | **-.04530** | **.00049** | **.00271** | **.00489** |
| Stddev | .00016 | .00050 | .03680 | .00003 | .00036 | .00036 |
| %RSD | 5.2519 | 27.229 | 81.222 | 7.1502 | 13.297 | 7.3642 |
| #1 | .00312 | .00147 | -.01928 | .00046 | .00245 | .00463 |
| #2 | .00289 | .00217 | -.07132 | .00051 | .00296 | .00514 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8835.0** | **110430.** | **9639.4** |
| Stddev | 20.0 | 191. | 21.9 |
| %RSD | .22650 | .17276 | .22771 |
| #1 | 8849.2 | 110290. | 9654.9 |
| #2 | 8820.8 | 110560. | 9623.9 |

Sample Name: 280-45454-e-1-dSD@5 Acquired: 8/16/2013 4:01:07 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187267 200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00024** | **.06079** | **.00016** | **.01052** | **.05121** | **.00008** | **.00439** | **47.005** | **.00063** | **.00060** |
| Stddev | .00081 | .00005 | .00126 | .00042 | .00023 | .00003 | .00365 | .024 | .00003 | .00005 |
| %RSD | 339.88 | .07759 | 794.07 | 3.9994 | .45183 | 40.454 | 83.192 | .05003 | 5.3549 | 8.5856 |
| #1 | -.00033 | .06083 | .00105 | .01022 | .05105 | .00010 | .00181 | 46.988 | .00061 | .00064 |
| #2 | .00081 | .06076 | -.00073 | .01081 | .05138 | .00006 | .00697 | 47.021 | .00065 | .00056 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00020** | **.00004** | **.06018** | **1.7448** | **.02009** | **29.426** | **.16596** | **.00017** | **59.281** | **.00060** |
| Stddev | .00007 | .00019 | .00054 | .0765 | .00032 | .081 | .00013 | .00006 | .159 | .00010 |
| %RSD | 32.618 | 535.92 | .89047 | 4.3826 | 1.6152 | .27505 | .07737 | 32.728 | .26747 | 17.374 |
| #1 | .00016 | -.00010 | .06056 | 1.7989 | .02031 | 29.369 | .16587 | .00021 | 59.169 | .00067 |
| #2 | .00025 | .00017 | .05980 | 1.6907 | .01986 | 29.483 | .16605 | .00013 | 59.393 | .00053 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00402** | **-.00049** | **78.194** | **-.00285** | **.00224** | **1.7307** | **3.7037** | **-.00146** | **1.1633** | **.00120** |
| Stddev | .00073 | .00026 | .058 | .00008 | .00251 | .0242 | .0519 | .00017 | .0011 | .00142 |
| %RSD | 18.163 | 53.363 | .07413 | 2.6325 | 112.22 | 1.4008 | 1.4008 | 11.552 | .09583 | 117.90 |
| #1 | .00350 | -.00068 | 78.235 | -.00291 | .00046 | 1.7136 | 3.6671 | -.00157 | 1.1625 | .00220 |
| #2 | .00453 | -.00031 | 78.153 | -.00280 | .00402 | 1.7479 | 3.7404 | -.00134 | 1.1640 | .00020 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.00136** | **-.02764** | **.00032** | **.00385** | **.00379** |
| Stddev | .00016 | .00031 | .02589 | .00005 | .00009 | .00009 |
| %RSD | 10.509 | 22.848 | 93.642 | 14.158 | 2.4605 | 2.2725 |
| #1 | .00137 | .00114 | -.04595 | .00036 | .00378 | .00385 |
| #2 | .00159 | .00158 | -.00934 | .00029 | .00392 | .00373 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9020.8** | **111950.** | **9486.4** |
| Stddev | 18.5 | 612. | 22.3 |
| %RSD | .20469 | .54654 | .23535 |
| #1 | 9007.7 | 112380. | 9502.1 |
| #2 | 9033.8 | 111520. | 9470.6 |

Sample Name: 280-45454-e-1-e ms  Acquired: 8/16/2013 4:03:25  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03732** | **1.6359** | **.79510** | **.79382** | **1.6799** | **.03647** | F **1.6238** | **174.43** | **.08236** | **.36585** |
| Stddev | .00083 | .0019 | .00022 | .00009 | .0033 | .00000 | .0029 | .57 | .00012 | .00002 |
| %RSD | 2.2167 | .11765 | .02766 | .01147 | .19585 | .01355 | .17758 | .32588 | .14097 | .00638 |
| #1 | .03790 | 1.6372 | .79526 | .79388 | 1.6776 | .03647 | 1.6258 | 174.03 | .08228 | .36587 |
| #2 | .03673 | 1.6345 | .79495 | .79375 | 1.6823 | .03647 | 1.6217 | 174.83 | .08244 | .36584 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14905** | **.18930** | **.90405** | **43.430** | **.78906** | **124.53** | **.85040** | **.76299** | **213.81** | **.36536** |
| Stddev | .00041 | .00038 | .00837 | .179 | .00087 | 2.16 | .00051 | .00120 | .62 | .00007 |
| %RSD | .27243 | .20245 | .92554 | .41150 | .11060 | 1.7329 | .06056 | .15776 | .28782 | .01922 |
| #1 | .14934 | .18903 | .89813 | 43.303 | .78844 | 126.05 | .85004 | .76384 | 213.37 | .36541 |
| #2 | .14877 | .18957 | .90997 | 43.556 | .78968 | 123.00 | .85077 | .76214 | 214.24 | .36532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.0903** | **.36285** | F **248.04** | **.38182** | **1.5683** | **12.963** | **27.742** | **1.4849** | **4.2504** | **.71384** |
| Stddev | .0053 | .00221 | .50 | .00000 | .0043 | .009 | .020 | .0027 | .0815 | .00139 |
| %RSD | .06594 | .60935 | .20248 | .00055 | .27406 | .07190 | .07190 | .18525 | 1.9178 | .19508 |
| #1 | 8.0865 | .36441 | 247.68 | .38182 | 1.5652 | 12.970 | 27.756 | 1.4868 | 4.1927 | .71482 |
| #2 | 8.0941 | .36128 | 248.39 | .38182 | 1.5713 | 12.957 | 27.728 | 1.4829 | 4.3080 | .71285 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.74501** | **1.4054** | **1.5600** | **.37745** | **.35224** | **.38367** |
| Stddev | .00040 | .0030 | .0086 | .00073 | .00130 | .00214 |
| %RSD | .05303 | .21556 | .54910 | .19333 | .36870 | .55899 |
| #1 | .74529 | 1.4076 | 1.5661 | .37797 | .35316 | .38519 |
| #2 | .74473 | 1.4033 | 1.5540 | .37694 | .35132 | .38215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8659.4** | **107820.** | **9601.6** |
| Stddev | 20.1 | 496. | 12.7 |
| %RSD | .23191 | .46028 | .13240 |
| #1 | 8645.2 | 107460. | 9592.6 |
| #2 | 8673.6 | 108170. | 9610.6 |

Sample Name: 280-45454-e-1-f msd  Acquired: 8/16/2013 4:05:47  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03910** | **1.6947** | **.82484** | **.82800** | **1.7542** | **.03811** | F **1.6954** | **179.62** | **.08600** | **.38271** |
| Stddev | .00057 | .0067 | .00192 | .00149 | .0086 | .00021 | .0063 | 1.58 | .00014 | .00025 |
| %RSD | 1.4664 | .39302 | .23235 | .18005 | .49336 | .55503 | .37285 | .87899 | .16152 | .06592 |
| #1 | .03951 | 1.6900 | .82349 | .82695 | 1.7481 | .03796 | 1.6909 | 178.50 | .08590 | .38289 |
| #2 | .03870 | 1.6995 | .82620 | .82906 | 1.7603 | .03826 | 1.6999 | 180.73 | .08610 | .38253 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15590** | **.19866** | **.94944** | **45.234** | **.81901** | **126.43** | **.88167** | **.79640** | **220.37** | **.38174** |
| Stddev | .00001 | .00135 | .00130 | .255 | .00412 | .59 | .00212 | .00087 | 1.07 | .00058 |
| %RSD | .00409 | .67809 | .13695 | .56363 | .50306 | .46403 | .24044 | .10962 | .48478 | .15242 |
| #1 | .15589 | .19961 | .94852 | 45.054 | .81610 | 126.85 | .88317 | .79579 | 219.61 | .38133 |
| #2 | .15590 | .19771 | .95036 | 45.414 | .82193 | 126.02 | .88017 | .79702 | 221.12 | .38215 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.4300** | **.37894** | F **255.80** | **.40018** | **1.6330** | **13.397** | **28.669** | **1.5427** | **4.2941** | **.74442** |
| Stddev | .0168 | .00152 | .26 | .00010 | .0029 | .006 | .013 | .0077 | .0184 | .00296 |
| %RSD | .19887 | .40083 | .09986 | .02613 | .17542 | .04601 | .04601 | .49962 | .42747 | .39744 |
| #1 | 8.4181 | .37786 | 255.62 | .40025 | 1.6351 | 13.392 | 28.660 | 1.5373 | 4.2812 | .74652 |
| #2 | 8.4418 | .38001 | 255.98 | .40010 | 1.6310 | 13.401 | 28.679 | 1.5482 | 4.3071 | .74233 |
| Check ? | Chk Warn | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | 200.00 | | | | | | | |
| Low Limit | -1.0000 | | -.20000 | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.78079** | **1.4668** | **1.6418** | **.39661** | **.36674** | **.39970** |
| Stddev | .00062 | .0059 | .0011 | .00130 | .00177 | .00075 |
| %RSD | .07958 | .40184 | .06507 | .32866 | .48268 | .18658 |
| #1 | .78123 | 1.4626 | 1.6426 | .39753 | .36800 | .40022 |
| #2 | .78035 | 1.4709 | 1.6411 | .39569 | .36549 | .39917 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8646.9** | **108110.** | **9627.6** |
| Stddev | 22.2 | 325. | 41.6 |
| %RSD | .25647 | .30032 | .43164 |
| #1 | 8662.5 | 107880. | 9598.2 |
| #2 | 8631.2 | 108340. | 9657.0 |

Sample Name: 280-45454-e-2-b  Acquired: 8/16/2013 4:08:13  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00074** | **22.031** | **.00837** | **.03156** | **.32459** | **.00125** | **-.00132** | **47.061** | **.00124** | **.00834** |
| Stddev | .00031 | .004 | .00074 | .00065 | .00023 | .00006 | .00072 | .127 | .00012 | .00008 |
| %RSD | 41.149 | .01878 | 8.8124 | 2.0635 | .07133 | 4.6210 | 54.529 | .26918 | 9.3666 | .93158 |
| #1 | .00096 | 22.028 | .00785 | .03202 | .32476 | .00129 | -.00183 | 46.971 | .00132 | .00839 |
| #2 | .00053 | 22.033 | .00889 | .03109 | .32443 | .00121 | -.00081 | 47.151 | .00115 | .00828 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Na8183 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 818.326 { 41} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02282** | **.02808** | **23.513** | **6.8627** | **.02309** | **10.887** | **.41592** | **.00318** | **9.1339** | W **10.288** |
| Stddev | .00003 | .00007 | .006 | .0837 | .00016 | .011 | .00057 | .00050 | .0112 | .171 |
| %RSD | .14777 | .25309 | .02504 | 1.2189 | .71157 | .09839 | .13600 | 15.758 | .12218 | 1.6580 |
| #1 | .02285 | .02813 | 23.509 | 6.9218 | .02321 | 10.894 | .41552 | .00283 | 9.1417 | 10.409 |
| #2 | .02280 | .02803 | 23.517 | 6.8035 | .02297 | 10.879 | .41632 | .00353 | 9.1260 | 10.168 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | 500.00 |
| Low Limit | | | | | | | | | | 11.000 |

| Elem | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 231.604 {446} | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02497** | **.66862** | **.01224** | **15.136** | **-.00495** | **.00184** | **36.907** | **78.980** | **.00053** | **.31910** |
| Stddev | .00018 | .00407 | .00021 | .029 | .00131 | .00130 | .013 | .027 | .00061 | .00038 |
| %RSD | .72276 | .60857 | 1.7526 | .18863 | 26.509 | 70.280 | .03414 | .03414 | 115.78 | .11754 |
| #1 | .02510 | .67150 | .01239 | 15.156 | -.00402 | .00093 | 36.898 | 78.961 | .00096 | .31883 |
| #2 | .02484 | .66575 | .01208 | 15.115 | -.00588 | .00276 | 36.915 | 78.999 | .00010 | .31936 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|
| Line | 283.730 {119} | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00513** | **.19760** | **.00109** | **-.03645** | **.05505** | **.09389** | **.00805** |
| Stddev | .00030 | .00035 | .00033 | .02611 | .00023 | .00043 | .00047 |
| %RSD | 5.7597 | .17572 | 30.177 | 71.635 | .41609 | .45471 | 5.8021 |
| #1 | .00492 | .19735 | .00133 | -.01798 | .05522 | .09420 | .00838 |
| #2 | .00534 | .19784 | .00086 | -.05491 | .05489 | .09359 | .00772 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | |
| Low Limit | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9442.0** | **116390.** | **10035.** |
| Stddev | 22.4 | 26. | 49. |
| %RSD | .23772 | .02252 | .49043 |
| #1 | 9457.9 | 116410. | 10069. |
| #2 | 9426.2 | 116370. | 9999.8 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 4:10:26 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00069** | **49.632** | **.00404** | **.00347** | **.00038** | **.00000** | **1.0400** | **.00135** | **.00029** | **.00017** | **-.00016** | **.00285** | **49.374** |
| Stddev | .00025 | .098 | .00112 | .00023 | .00019 | .0000 | .0034 | .00175 | .00003 | .00019 | .00008 | .00027 | .320 |
| %RSD | 35.757 | .19811 | 27.707 | 6.5562 | 48.413 | 1135.4 | .32687 | 129.99 | 9.3765 | 111.95 | 49.973 | 9.5049 | .64823 |
| #1 | .00086 | 49.562 | .00325 | .00330 | .00025 | -.00002 | 1.0424 | .00259 | .00031 | .00030 | -.00022 | .00304 | 49.600 |
| #2 | .00051 | 49.702 | .00483 | .00363 | .00052 | .00001 | 1.0376 | .00011 | .00027 | .00004 | -.00010 | .00266 | 49.147 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.14258** | **.00152** | **-.00206** | **.00008** | **.00045** | **255.51** | **.00102** | **.00290** | **-.00009** | **5.1728** | **-.00056** | **-.00011** | **.01060** |
| Stddev | .06341 | .00054 | .00098 | .00001 | .00011 | .39 | .00012 | .00175 | .00086 | .0175 | .00096 | .00253 | .01339 |
| %RSD | 44.476 | 35.660 | 47.447 | 7.5949 | 25.054 | .15208 | 11.880 | 60.404 | 970.91 | .33749 | 172.92 | 2200.9 | 126.34 |
| #1 | .18742 | .00114 | -.00137 | .00008 | .00037 | 255.24 | .00110 | .00413 | .00052 | 5.1852 | .00012 | -.00190 | .02006 |
| #2 | .09774 | .00191 | -.00275 | .00008 | .00053 | 255.79 | .00093 | .00166 | -.00069 | 5.1605 | -.00124 | .00167 | .00113 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02268** | **-.00099** | **.00069** | **4.8639** | **.00046** | **.00143** | **10.206** | **.00025** | **.00028** | **.02803** |
| Stddev | .02865 | .00010 | .00006 | .0114 | .00020 | .00096 | .037 | .00020 | .00005 | .00107 |
| %RSD | 126.34 | 9.7676 | 9.0381 | .23507 | 43.848 | 67.217 | .36253 | 83.221 | 18.682 | 3.8007 |
| #1 | .04294 | -.00106 | .00065 | 4.8720 | .00061 | .00210 | 10.232 | .00010 | .00031 | .02728 |
| #2 | .00242 | -.00092 | .00074 | 4.8558 | .00032 | .00075 | 10.179 | .00039 | .00024 | .02878 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9021.3** | **111580.** | **9537.8** |
| Stddev | 19.6 | 196. | 12.2 |
| %RSD | .21770 | .17566 | .12745 |
| #1 | 9007.4 | 111440. | 9529.2 |
| #2 | 9035.1 | 111720. | 9546.4 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 4:12:47 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49289** | **.51804** | **1.0091** | **.51641** | **.50412** | **.49431** | **.00424** | **4.9924** | **.51211** | **.50752** | **.49962** | **.50275** | **2.5180** |
| Stddev | .00002 | .00072 | .0024 | .00056 | .00273 | .00383 | .00076 | .0386 | .00095 | .00059 | .00029 | .00249 | .0241 |
| %RSD | .00472 | .13832 | .23810 | .10775 | .54074 | .77479 | 17.818 | .77286 | .18497 | .11708 | .05864 | .49521 | .95625 |
| #1 | .49288 | .51855 | 1.0108 | .51602 | .50219 | .49160 | .00477 | 4.9651 | .51144 | .50709 | .49983 | .50099 | 2.5009 |
| #2 | .49291 | .51754 | 1.0074 | .51681 | .50605 | .49702 | .00370 | 5.0196 | .51278 | .50794 | .49941 | .50451 | 2.5350 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.598** | **.96209** | **18.950** | **.48902** | **.50189** | **5.2313** | **.50609** | **1.0134** | **1.0171** | **.02770** | **1.0389** | **1.0250** | **4.8947** |
| Stddev | .309 | .00643 | .010 | .00003 | .00012 | .0141 | .00134 | .0009 | .0001 | .00127 | .0030 | .0004 | .0744 |
| %RSD | .62224 | .66851 | .05215 | .00667 | .02474 | .26980 | .26462 | .09105 | .00722 | 4.5704 | .28810 | .04329 | 1.5196 |
| #1 | 49.380 | .95755 | 18.957 | .48900 | .50180 | 5.2214 | .50514 | 1.0127 | 1.0172 | .02860 | 1.0410 | 1.0253 | 4.8421 |
| #2 | 49.816 | .96664 | 18.943 | .48904 | .50197 | 5.2413 | .50703 | 1.0140 | 1.0171 | .02681 | 1.0368 | 1.0246 | 4.9473 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.475** | **1.0039** | **.50284** | **-.00266** | **.49352** | **1.0343** | **-.01950** | **.49584** | **.47696** | **.50370** |
| Stddev | .159 | .0031 | .00242 | .00203 | .00034 | .0008 | .00625 | .00083 | .00177 | .00451 |
| %RSD | 1.5196 | .31008 | .48184 | 76.181 | .06924 | .07970 | 32.020 | .16698 | .37107 | .89448 |
| #1 | 10.362 | 1.0061 | .50112 | -.00410 | .49376 | 1.0337 | -.01509 | .49642 | .47571 | .50051 |
| #2 | 10.587 | 1.0017 | .50455 | -.00123 | .49328 | 1.0348 | -.02392 | .49525 | .47821 | .50688 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9259.0** | **115390.** | **9743.5** |
| Stddev | 20.4 | 6. | 46.8 |
| %RSD | .22001 | .00478 | .48056 |
| #1 | 9273.4 | 115390. | 9776.6 |
| #2 | 9244.6 | 115390. | 9710.4 |

Sample Name: CCB  Acquired: 8/16/2013 4:14:55  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **.00093** | **.00083** | **.00154** | **-.00026** | **.00004** | **.00311** | **-.00183** | **.00024** | **.00002** | **-.00003** | **-.00094** |
| Stddev | .00004 | .00023 | .00018 | .00031 | .00028 | .00004 | .00030 | .00065 | .00017 | .00011 | .00005 | .00028 |
| %RSD | 78.745 | 24.420 | 22.001 | 20.464 | 109.30 | 107.45 | 9.5942 | 35.413 | 69.939 | 564.41 | 183.37 | 30.175 |
| #1 | .00002 | .00077 | .00096 | .00132 | -.00006 | .00007 | .00332 | -.00137 | .00012 | -.00006 | .00001 | -.00074 |
| #2 | .00007 | .00109 | .00070 | .00176 | -.00045 | .00001 | .00290 | -.00229 | .00036 | .00009 | -.00007 | -.00114 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.11059** | **.00118** | **.00411** | **.00010** | **.00058** | W **.17447** | **.00033** | **.00092** | **-.00107** | **.01612** | W **.00501** |
| Stddev | .00072 | .02953 | .00180 | .00082 | .00001 | .00017 | .02150 | .00021 | .00058 | .00055 | .00055 | .00273 |
| %RSD | 433.97 | 26.706 | 152.12 | 19.912 | 12.812 | 29.059 | 12.323 | 62.371 | 63.719 | 50.945 | 3.4048 | 54.568 |
| #1 | .00068 | .08971 | -.00009 | .00353 | .00011 | .00046 | .18967 | .00018 | .00133 | -.00069 | .01651 | .00308 |
| #2 | -.00035 | .13147 | .00245 | .00469 | .00009 | .00070 | .15926 | .00047 | .00050 | -.00146 | .01573 | .00694 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00186** | **.00088** | **.00189** | **-.00031** | **.00022** | **.00133** | **.00052** | **.00122** | **-.01367** | **-.00074** | **.00143** | W **.00396** |
| Stddev | .00180 | .01655 | .03541 | .00018 | .00005 | .00040 | .00016 | .00033 | .00663 | .00003 | .00056 | .00113 |
| %RSD | 97.057 | 1876.1 | 1876.1 | 59.651 | 22.027 | 30.215 | 30.321 | 27.231 | 48.509 | 4.2055 | 38.932 | 28.585 |
| #1 | .00058 | .01258 | .02693 | -.00018 | .00018 | .00105 | .00041 | .00098 | -.00898 | -.00076 | .00104 | .00477 |
| #2 | .00313 | -.01082 | -.02315 | -.00044 | .00025 | .00161 | .00063 | .00145 | -.01836 | -.00072 | .00183 | .00316 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9295.2** | **116570.** | **9676.1** |
| Stddev | 7.3 | 582. | 57.8 |
| %RSD | .07843 | .49906 | .59727 |
| #1 | 9290.0 | 116980. | 9635.2 |
| #2 | 9300.3 | 116160. | 9717.0 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 4:17:12 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01062** | **.10888** | **.01447** | **.10356** | **.01023** | **.00102** | **.12142** | **.20733** | **.00547** | **.01076** | **.01024** | **.01535** | **.10047** |
| Stddev | .00043 | .00008 | .00034 | .00086 | .00058 | .00001 | .00158 | .00248 | .00007 | .00005 | .00009 | .00015 | .00125 |
| %RSD | 4.0583 | .07507 | 2.3183 | .83105 | 5.6861 | .94913 | 1.3050 | 1.1980 | 1.2337 | .51009 | .87320 | 1.0091 | 1.2424 |
| #1 | .01031 | .10882 | .01423 | .10295 | .01064 | .00102 | .12030 | .20909 | .00542 | .01072 | .01017 | .01524 | .10136 |
| #2 | .01092 | .10894 | .01471 | .10417 | .00982 | .00103 | .12254 | .20558 | .00551 | .01080 | .01030 | .01546 | .09959 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1783** | **.01174** | **.20757** | **.01026** | **.01975** | **1.2007** | **.04266** | **3.0111** | **.00888** | **.01669** | **.00703** | **.01736** | **.49282** |
| Stddev | .0226 | .00322 | .00081 | .00002 | .00018 | .0098 | .00005 | .0001 | .00047 | .00248 | .00233 | .00180 | .00247 |
| %RSD | .71123 | 27.440 | .39119 | .19916 | .93114 | .81177 | .11574 | .00283 | 5.2436 | 14.880 | 33.139 | 10.391 | .50119 |
| #1 | 3.1943 | .01402 | .20814 | .01028 | .01962 | 1.2076 | .04262 | 3.0111 | .00921 | .01845 | .00867 | .01608 | .49457 |
| #2 | 3.1624 | .00947 | .20699 | .01025 | .01988 | 1.1938 | .04269 | 3.0110 | .00856 | .01493 | .00538 | .01863 | .49108 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0546** | **.10201** | **.01030** | **.01483** | **.01007** | **.01789** | **.04989** | **.00933** | **.02222** | F **.02124** |
| Stddev | .0053 | .00036 | .00006 | .00007 | .00015 | .00004 | .00357 | .00046 | .00022 | .00179 |
| %RSD | .50119 | .35256 | .61613 | .44103 | 1.5027 | .20607 | 7.1471 | 4.9109 | .98913 | 8.4479 |
| #1 | 1.0584 | .10226 | .01034 | .01479 | .00996 | .01792 | .05241 | .00901 | .02207 | .02251 |
| #2 | 1.0509 | .10176 | .01025 | .01488 | .01017 | .01787 | .04737 | .00965 | .02238 | .01997 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | | | | .01500 |
| Range | | | | | | | | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9427.4** | **118470.** | **9725.7** |
| Stddev | 3.8 | 236. | 21.2 |
| %RSD | .03994 | .19929 | .21836 |
| #1 | 9424.7 | 118300. | 9710.7 |
| #2 | 9430.0 | 118640. | 9740.7 |

Sample Name: 280-45454-e-3-b Acquired: 8/16/2013 4:19:29 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187267 200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00038** | **7.0317** | **.00217** | **.01525** | **.13442** | **.00031** | **.00336** | **30.766** | **.00054** | **.00181** |
| Stddev | .00013 | .0211 | .00330 | .00027 | .00026 | .00005 | .00077 | .004 | .00025 | .00009 |
| %RSD | 34.123 | .29985 | 151.75 | 1.7401 | .19306 | 17.029 | 22.781 | .01170 | 46.309 | 4.7089 |
| #1 | .00029 | 7.0466 | .00450 | .01506 | .13460 | .00035 | .00390 | 30.768 | .00037 | .00175 |
| #2 | .00047 | 7.0168 | -.00016 | .01543 | .13423 | .00027 | .00282 | 30.763 | .00072 | .00187 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00516** | **.00604** | **5.6844** | **2.7775** | **.00906** | **7.1858** | **.10867** | **.00076** | **13.571** | **.00417** |
| Stddev | .00007 | .00010 | .0224 | .0060 | .00031 | .0026 | .00005 | .00004 | .105 | .00003 |
| %RSD | 1.4203 | 1.7160 | .39465 | .21614 | 3.3927 | .03580 | .04346 | 5.6928 | .77275 | .60658 |
| #1 | .00521 | .00612 | 5.7002 | 2.7732 | .00884 | 7.1876 | .10871 | .00079 | 13.497 | .00415 |
| #2 | .00511 | .00597 | 5.6685 | 2.7817 | .00928 | 7.1840 | .10864 | .00073 | 13.645 | .00419 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11448** | **.00241** | **12.604** | **-.00303** | **.00061** | **16.317** | **34.919** | **-.00057** | **.28361** | **.00330** |
| Stddev | .00156 | .00056 | .012 | .00224 | .00016 | .064 | .136 | .00091 | .00083 | .00098 |
| %RSD | 1.3656 | 23.406 | .09777 | 73.929 | 26.187 | .39035 | .39035 | 159.90 | .29177 | 29.597 |
| #1 | .11337 | .00201 | 12.613 | -.00462 | .00072 | 16.272 | 34.822 | .00007 | .28420 | .00261 |
| #2 | .11558 | .00280 | 12.596 | -.00145 | .00050 | 16.362 | 35.015 | -.00122 | .28303 | .00399 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10655** | **.00117** | **-.04493** | **.01127** | **.01902** | **.00752** |
| Stddev | .00028 | .00096 | .01391 | .00021 | .00002 | .00179 |
| %RSD | .25877 | 82.036 | 30.958 | 1.8971 | .12108 | 23.792 |
| #1 | .10674 | .00185 | -.03510 | .01112 | .01904 | .00878 |
| #2 | .10635 | .00049 | -.05477 | .01142 | .01901 | .00625 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9358.8** | **115680.** | **9883.5** |
| Stddev | 7.9 | 423. | 22.4 |
| %RSD | .08390 | .36608 | .22701 |
| #1 | 9364.3 | 115380. | 9899.4 |
| #2 | 9353.2 | 115980. | 9867.7 |

Sample Name: 280-45454-e-4-b  Acquired: 8/16/2013 4:21:46  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **5.6952** | **.00012** | **.01299** | **.11379** | **.00021** | **.00338** | **27.308** | **.00045** | **.00148** |
| Stddev | .00012 | .0183 | .00063 | .00013 | .00058 | .00003 | .00098 | .054 | .00020 | .00018 |
| %RSD | 378.62 | .32073 | 531.81 | 1.0044 | .51199 | 16.006 | 29.065 | .19805 | 44.833 | 11.806 |
| #1 | .00012 | 5.6822 | -.00033 | .01290 | .11338 | .00024 | .00407 | 27.270 | .00059 | .00161 |
| #2 | -.00005 | 5.7081 | .00056 | .01308 | .11420 | .00019 | .00268 | 27.346 | .00031 | .00136 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00421** | **.00473** | **4.6306** | **2.3512** | **.00646** | **6.3571** | **.09006** | **.00069** | **12.348** | **.00294** |
| Stddev | .00005 | .00034 | .0014 | .0716 | .00268 | .0050 | .00003 | .00009 | .064 | .00020 |
| %RSD | 1.1867 | 7.1656 | .03075 | 3.0463 | 41.547 | .07793 | .03151 | 13.518 | .51992 | 6.9597 |
| #1 | .00425 | .00449 | 4.6316 | 2.3006 | .00835 | 6.3606 | .09008 | .00075 | 12.302 | .00280 |
| #2 | .00418 | .00497 | 4.6296 | 2.4019 | .00456 | 6.3536 | .09004 | .00062 | 12.393 | .00309 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.09685** | **.00161** | **11.407** | **-.00317** | **-.00078** | **13.621** | **29.149** | **-.00043** | **.25226** | **.00212** |
| Stddev | .00061 | .00002 | .011 | .00055 | .00095 | .011 | .023 | .00011 | .00080 | .00002 |
| %RSD | .62959 | 1.2196 | .09832 | 17.203 | 121.93 | .07883 | .07883 | 26.543 | .31658 | .93167 |
| #1 | .09642 | .00163 | 11.399 | -.00279 | -.00011 | 13.613 | 29.132 | -.00035 | .25169 | .00214 |
| #2 | .09728 | .00160 | 11.415 | -.00356 | -.00144 | 13.628 | 29.165 | -.00051 | .25282 | .00211 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.08528** | **.00068** | **-.03929** | **.00943** | **.01659** | **.00659** |
| Stddev | .00107 | .00095 | .05599 | .00041 | .00006 | .00007 |
| %RSD | 1.2495 | 139.63 | 142.50 | 4.3366 | .38946 | 1.0267 |
| #1 | .08452 | .00001 | -.07888 | .00972 | .01663 | .00654 |
| #2 | .08603 | .00135 | .00030 | .00914 | .01654 | .00664 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9376.3** | **116140.** | **9812.2** |
| Stddev | 7.0 | 645. | 4.9 |
| %RSD | .07426 | .55577 | .05026 |
| #1 | 9371.4 | 116600. | 9815.7 |
| #2 | 9381.2 | 115690. | 9808.7 |

Sample Name: 280-45454-e-5-b  Acquired: 8/16/2013 4:24:03  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **26.464** | **.00732** | **.03000** | **.55980** | **.00169** | **-.00082** | **79.609** | **.00123** | **.01425** |
| Stddev | .00000 | .018 | .00326 | .00077 | .00021 | .00003 | .00130 | .002 | .00008 | .00039 |
| %RSD | .44734 | .06833 | 44.607 | 2.5603 | .03728 | 1.4839 | 158.99 | .00235 | 6.5974 | 2.7638 |
| #1 | -.00069 | 26.477 | .00501 | .03055 | .55994 | .00167 | .00010 | 79.607 | .00117 | .01452 |
| #2 | -.00069 | 26.452 | .00963 | .02946 | .55965 | .00171 | -.00174 | 79.610 | .00128 | .01397 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02041** | **.04915** | **23.559** | **10.875** | **.02907** | **34.277** | **.74089** | **.00144** | **155.17** | **.02074** |
| Stddev | .00014 | .00083 | .031 | .004 | .00227 | .038 | .00042 | .00006 | .16 | .00013 |
| %RSD | .70374 | 1.6981 | .13014 | .03573 | 7.8236 | .11113 | .05605 | 4.4687 | .10399 | .64064 |
| #1 | .02051 | .04974 | 23.580 | 10.878 | .03068 | 34.304 | .74118 | .00139 | 155.06 | .02084 |
| #2 | .02031 | .04856 | 23.537 | 10.873 | .02746 | 34.250 | .74059 | .00148 | 155.29 | .02065 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.39305** | **.02196** | **111.69** | **-.00305** | **.00278** | **37.513** | **80.278** | **.00054** | **1.5612** | **.00906** |
| Stddev | .00132 | .00007 | .05 | .00144 | .00211 | .016 | .035 | .00070 | .0017 | .00209 |
| %RSD | .33656 | .30671 | .04428 | 47.337 | 75.967 | .04358 | .04358 | 130.35 | .10893 | 23.096 |
| #1 | .39398 | .02200 | 111.72 | -.00407 | .00427 | 37.525 | 80.303 | .00103 | 1.5600 | .00758 |
| #2 | .39211 | .02191 | 111.65 | -.00203 | .00129 | 37.501 | 80.253 | .00004 | 1.5624 | .01054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18407** | **.00119** | W **-.07825** | **.05033** | **.11762** | **.00974** |
| Stddev | .00059 | .00120 | .02055 | .00018 | .00029 | .00155 |
| %RSD | .32196 | 100.87 | 26.266 | .36508 | .24495 | 15.928 |
| #1 | .18366 | .00034 | -.09278 | .05020 | .11742 | .01084 |
| #2 | .18449 | .00204 | -.06372 | .05046 | .11783 | .00864 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9127.0** | **111340.** | **9695.7** |
| Stddev | 17.2 | 107. | 2.8 |
| %RSD | .18879 | .09640 | .02918 |
| #1 | 9139.2 | 111410. | 9697.7 |
| #2 | 9114.9 | 111260. | 9693.7 |

Sample Name: 280-45454-e-6-b  Acquired: 8/16/2013 4:26:19  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00003** | **.29701** | **.00118** | **.02230** | **.09141** | **.00007** | **.00354** | **55.339** | **.00044** | **.00016** |
| Stddev | .00034 | .00029 | .00172 | .00013 | .00007 | .00002 | .00193 | .030 | .00002 | .00015 |
| %RSD | 1180.8 | .09716 | 146.03 | .58697 | .07351 | 32.092 | 54.650 | .05345 | 3.5237 | 91.098 |
| #1 | -.00027 | .29722 | -.00004 | .02221 | .09146 | .00005 | .00490 | 55.318 | .00043 | .00027 |
| #2 | .00021 | .29681 | .00239 | .02239 | .09137 | .00009 | .00217 | 55.360 | .00045 | .00006 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00041** | **.00046** | **.25185** | **3.6499** | **.04226** | **34.809** | **.03194** | **.00089** | **196.16** | **.00103** |
| Stddev | .00005 | .00001 | .00042 | .0443 | .00118 | .060 | .00013 | .00005 | .55 | .00031 |
| %RSD | 12.670 | 2.9111 | .16530 | 1.2142 | 2.7867 | .17307 | .41269 | 6.0102 | .28164 | 30.022 |
| #1 | .00044 | .00045 | .25155 | 3.6186 | .04143 | 34.767 | .03184 | .00085 | 195.77 | .00125 |
| #2 | .00037 | .00047 | .25214 | 3.6813 | .04309 | 34.852 | .03203 | .00092 | 196.55 | .00081 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00911** | **-.00077** | **102.32** | **-.00384** | **-.00205** | **3.9531** | **8.4596** | **-.00144** | **1.6787** | **.00111** |
| Stddev | .00096 | .00074 | .01 | .00070 | .00046 | .0241 | .0515 | .00086 | .0009 | .00085 |
| %RSD | 10.578 | 96.459 | .01373 | 18.207 | 22.373 | .60854 | .60854 | 59.327 | .05443 | 77.121 |
| #1 | .00842 | -.00024 | 102.33 | -.00335 | -.00173 | 3.9701 | 8.4960 | -.00084 | 1.6780 | .00050 |
| #2 | .00979 | -.00129 | 102.31 | -.00434 | -.00238 | 3.9361 | 8.4232 | -.00205 | 1.6793 | .00171 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00643** | **.00067** | W **-.06503** | **.00062** | **.00287** | **.00517** |
| Stddev | .00029 | .00148 | .00154 | .00005 | .00000 | .00185 |
| %RSD | 4.4863 | 221.59 | 2.3718 | 7.5036 | .02332 | 35.782 |
| #1 | .00623 | -.00038 | -.06394 | .00059 | .00288 | .00648 |
| #2 | .00663 | .00171 | -.06612 | .00066 | .00287 | .00386 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8914.1** | **109930.** | **9592.8** |
| Stddev | 39.0 | 724. | 24.0 |
| %RSD | .43771 | .65848 | .25025 |
| #1 | 8941.7 | 110440. | 9609.7 |
| #2 | 8886.5 | 109410. | 9575.8 |

Sample Name: 280-45454-e-7-b  Acquired: 8/16/2013 4:28:36  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00039** | **.00871** | **.00042** | **.02833** | **.00023** | **.00006** | **.00311** | **.03425** | **.00023** | **.00029** |
| Stddev | .00019 | .00015 | .00080 | .00025 | .00035 | .00003 | .00289 | .00149 | .00018 | .00035 |
| %RSD | 48.400 | 1.7736 | 190.75 | .88333 | 154.82 | 42.974 | 92.920 | 4.3364 | 76.249 | 119.79 |
| #1 | .00025 | .00860 | -.00015 | .02850 | -.00002 | .00004 | .00107 | .03530 | .00011 | .00004 |
| #2 | .00052 | .00881 | .00098 | .02815 | .00048 | .00008 | .00516 | .03320 | .00036 | .00054 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00336** | **-.00052** | **.00350** | **.09573** | **.00039** | **.00427** | **.00026** | **-.00005** | **.24505** | **.00154** |
| Stddev | .00005 | .00002 | .00197 | .03811 | .00186 | .00081 | .00001 | .00010 | .01172 | .00001 |
| %RSD | 1.5444 | 4.2490 | 56.123 | 39.813 | 479.64 | 19.075 | 4.6386 | 210.22 | 4.7846 | .37737 |
| #1 | .00332 | -.00050 | .00211 | .06878 | -.00093 | .00485 | .00027 | -.00012 | .25334 | .00155 |
| #2 | .00340 | -.00053 | .00489 | .12268 | .00170 | .00370 | .00025 | .00002 | .23676 | .00154 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00085** | **-.00109** | **.02544** | **-.00362** | **-.00020** | **.02291** | **.04903** | **-.00086** | **.00037** | **.00044** |
| Stddev | .00127 | .00045 | .00043 | .00065 | .00201 | .00429 | .00918 | .00034 | .00011 | .00168 |
| %RSD | 149.37 | 41.574 | 1.7034 | 17.929 | 1013.3 | 18.722 | 18.722 | 39.209 | 28.955 | 380.50 |
| #1 | .00175 | -.00141 | .02514 | -.00316 | -.00162 | .02595 | .05552 | -.00062 | .00045 | .00163 |
| #2 | -.00005 | -.00077 | .02575 | -.00408 | .00122 | .01988 | .04254 | -.00110 | .00030 | -.00075 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00073** | **-.00016** | **-.04910** | **-.00062** | **.00316** | **.00516** |
| Stddev | .00033 | .00009 | .04091 | .00030 | .00033 | .00174 |
| %RSD | 45.056 | 55.971 | 83.329 | 48.880 | 10.326 | 33.767 |
| #1 | .00097 | -.00010 | -.07803 | -.00083 | .00339 | .00393 |
| #2 | .00050 | -.00022 | -.02017 | -.00040 | .00293 | .00639 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9351.8** | **117720.** | **9692.4** |
| Stddev | 19.4 | 112. | 47.9 |
| %RSD | .20731 | .09539 | .49471 |
| #1 | 9365.5 | 117800. | 9726.3 |
| #2 | 9338.1 | 117640. | 9658.5 |

Sample Name: 280-45454-e-8-b  Acquired: 8/16/2013 4:30:52  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00042** | W **3.1323** | **.00223** | **.01290** | **.09899** | **.00012** | **.00219** | **30.701** | **.00032** | **.00089** |
| Stddev | .00022 | .0043 | .00147 | .00034 | .00038 | .00011 | .00010 | .137 | .00013 | .00012 |
| %RSD | 53.149 | .13720 | 65.843 | 2.6738 | .38852 | 87.597 | 4.4790 | .44678 | 41.868 | 13.687 |
| #1 | .00026 | 3.1293 | .00327 | .01266 | .09872 | .00005 | .00226 | 30.604 | .00041 | .00080 |
| #2 | .00058 | 3.1354 | .00119 | .01314 | .09927 | .00020 | .00212 | 30.798 | .00022 | .00097 |
| Check ? | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 500.00 | | | | | | | | |
| Low Limit | | 3.2000 | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00258** | **.00273** | **2.3848** | **2.0758** | **.00723** | **7.0145** | **.04754** | **.00071** | **14.458** | **.00203** |
| Stddev | .00005 | .00003 | .0169 | .0415 | .00022 | .0027 | .00012 | .00008 | .248 | .00015 |
| %RSD | 1.8525 | .99524 | .70927 | 1.9997 | 2.9852 | .03788 | .25532 | 11.626 | 1.7129 | 7.1610 |
| #1 | .00262 | .00271 | 2.3728 | 2.1051 | .00707 | 7.0126 | .04745 | .00077 | 14.633 | .00213 |
| #2 | .00255 | .00274 | 2.3967 | 2.0464 | .00738 | 7.0164 | .04762 | .00065 | 14.282 | .00193 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04875** | **-.00024** | **13.202** | **-.00402** | **-.00123** | **9.8091** | **20.991** | **-.00113** | **.30612** | **-.00020** |
| Stddev | .00044 | .00105 | .038 | .00064 | .00137 | .0392 | .084 | .00039 | .00129 | .00085 |
| %RSD | .90369 | 432.90 | .28577 | 15.969 | 111.42 | .40008 | .40008 | 34.078 | .42146 | 419.05 |
| #1 | .04906 | .00050 | 13.175 | -.00357 | -.00220 | 9.7813 | 20.932 | -.00140 | .30521 | -.00080 |
| #2 | .04844 | -.00098 | 13.228 | -.00447 | -.00026 | 9.8368 | 21.051 | -.00086 | .30703 | .00040 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.05209** | **.00142** | **-.01141** | **.00554** | **.00987** | **.00525** |
| Stddev | .00058 | .00004 | .00364 | .00037 | .00041 | .00002 |
| %RSD | 1.1178 | 2.8212 | 31.930 | 6.6953 | 4.1850 | .32850 |
| #1 | .05168 | .00139 | -.00883 | .00527 | .01016 | .00524 |
| #2 | .05250 | .00145 | -.01398 | .00580 | .00958 | .00526 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9327.6** | **115910.** | **9700.8** |
| Stddev | 30.6 | 22. | 14.7 |
| %RSD | .32791 | .01912 | .15107 |
| #1 | 9306.0 | 115900. | 9711.2 |
| #2 | 9349.2 | 115930. | 9690.5 |

Sample Name: 280-45454-e-9-b  Acquired: 8/16/2013 4:33:09  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187267  200.7

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00005** | **15.110** | **.00244** | **.02259** | **.22566** | **.00068** | **.00136** | **34.889** | **.00064** | **.00384** |
| Stddev | .00047 | .040 | .00035 | .00007 | .00034 | .00007 | .00291 | .014 | .00007 | .00004 |
| %RSD | 923.94 | .26564 | 14.251 | .32109 | .15118 | 9.7540 | 213.55 | .04027 | 10.525 | .92203 |
| #1 | -.00028 | 15.081 | .00269 | .02264 | .22542 | .00073 | -.00070 | 34.879 | .00068 | .00381 |
| #2 | .00039 | 15.138 | .00219 | .02254 | .22591 | .00063 | .00342 | 34.899 | .00059 | .00386 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01042** | **.01946** | **9.6900** | **7.3522** | **.01271** | **9.7932** | **.11112** | **.00113** | **33.666** | **.00815** |
| Stddev | .00003 | .00049 | .0102 | .0697 | .00026 | .0427 | .00029 | .00003 | .133 | .00026 |
| %RSD | .28020 | 2.5272 | .10545 | .94799 | 2.0756 | .43609 | .26187 | 2.3941 | .39365 | 3.1646 |
| #1 | .01044 | .01981 | 9.6972 | 7.4015 | .01252 | 9.7630 | .11092 | .00115 | 33.760 | .00797 |
| #2 | .01040 | .01911 | 9.6828 | 7.3030 | .01290 | 9.8234 | .11133 | .00111 | 33.572 | .00833 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13968** | **.00696** | **22.196** | **-.00520** | **.00323** | **27.050** | **57.887** | **-.00099** | **.51366** | **.00442** |
| Stddev | .00029 | .00018 | .032 | .00096 | .00013 | .089 | .191 | .00025 | .00052 | .00132 |
| %RSD | .21107 | 2.6236 | .14622 | 18.412 | 4.0636 | .33009 | .33009 | 25.387 | .10140 | 29.805 |
| #1 | .13989 | .00709 | 22.219 | -.00588 | .00314 | 27.113 | 58.022 | -.00081 | .51403 | .00349 |
| #2 | .13947 | .00683 | 22.174 | -.00453 | .00332 | 26.987 | 57.752 | -.00117 | .51329 | .00535 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18958** | **.00122** | **-.03210** | **.02600** | **.05644** | **.00978** |
| Stddev | .00029 | .00015 | .01824 | .00019 | .00062 | .00093 |
| %RSD | .15509 | 12.456 | 56.827 | .71724 | 1.1060 | 9.5159 |
| #1 | .18938 | .00111 | -.01920 | .02614 | .05600 | .00912 |
| #2 | .18979 | .00133 | -.04500 | .02587 | .05688 | .01044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9318.8** | **114530.** | **9843.0** |
| Stddev | 28.3 | 139. | 41.7 |
| %RSD | .30319 | .12124 | .42330 |
| #1 | 9338.8 | 114630. | 9813.5 |
| #2 | 9298.8 | 114430. | 9872.5 |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 4:35:25 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00047** | **49.445** | **.00666** | **.00177** | **.00060** | **-.00001** | **1.0340** | **-.00769** | **.00028** | **.00018** | **-.00015** | **.00234** | **49.253** |
| Stddev | .00026 | .043 | .00097 | .00022 | .00033 | .00010 | .0014 | .00184 | .00015 | .00005 | .00006 | .00009 | .198 |
| %RSD | 55.191 | .08630 | 14.519 | 12.429 | 54.636 | 663.98 | .13940 | 23.876 | 54.280 | 25.641 | 37.188 | 3.8450 | .40134 |
| #1 | .00066 | 49.415 | .00598 | .00193 | .00083 | -.00008 | 1.0350 | -.00899 | .00017 | .00015 | -.00019 | .00240 | 49.392 |
| #2 | .00029 | 49.476 | .00735 | .00162 | .00037 | .00005 | 1.0330 | -.00639 | .00038 | .00021 | -.00011 | .00227 | 49.113 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15541** | **.00001** | **-.00234** | **.00003** | **-.00012** | **254.40** | **.00084** | **.00311** | **.00036** | **5.1446** | **-.00008** | **.00083** | **.01384** |
| Stddev | .05538 | .00149 | .00239 | .00014 | .00041 | .11 | .00009 | .00046 | .00011 | .0132 | .00079 | .00106 | .01975 |
| %RSD | 35.637 | 14138. | 102.09 | 474.21 | 331.34 | .04139 | 10.967 | 14.695 | 31.450 | .25662 | 960.41 | 128.58 | 142.68 |
| #1 | .11625 | -.00105 | -.00065 | -.00007 | .00016 | 254.47 | .00078 | .00278 | .00028 | 5.1352 | -.00064 | .00158 | -.00012 |
| #2 | .19457 | .00107 | -.00403 | .00013 | -.00041 | 254.32 | .00091 | .00343 | .00044 | 5.1539 | .00048 | .00008 | .02781 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.02962** | **-.00088** | **.00046** | **4.9096** | **.00053** | **.00130** | **10.299** | **.00061** | **.00063** | **.02065** |
| Stddev | .04227 | .00048 | .00008 | .0107 | .00037 | .00035 | .012 | .00032 | .00032 | .00391 |
| %RSD | 142.68 | 54.963 | 17.780 | .21799 | 69.859 | 26.508 | .11190 | 51.906 | 51.572 | 18.925 |
| #1 | -.00026 | -.00054 | .00040 | 4.9021 | .00027 | .00106 | 10.308 | .00083 | .00086 | .02341 |
| #2 | .05951 | -.00122 | .00052 | 4.9172 | .00078 | .00155 | 10.291 | .00039 | .00040 | .01789 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8973.1** | **109910.** | **9493.9** |
| Stddev | 11.3 | 359. | 16.4 |
| %RSD | .12605 | .32690 | .17271 |
| #1 | 8965.1 | 110160. | 9482.3 |
| #2 | 8981.1 | 109650. | 9505.5 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 4:37:47 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49768** | F **.56161** | **1.0039** | **.51444** | **.50314** | **.49331** | **.00346** | **4.9714** | **.51230** | **.50791** | **.49914** | **.50474** | **2.4976** |
| Stddev | .00215 | .00112 | .0035 | .00129 | .00026 | .00036 | .00130 | .0029 | .00095 | .00039 | .00050 | .00155 | .0043 |
| %RSD | .43174 | .19905 | .34698 | .25084 | .05217 | .07343 | 37.640 | .05939 | .18477 | .07625 | .10057 | .30630 | .17229 |
| #1 | .49617 | .56082 | 1.0014 | .51353 | .50296 | .49305 | .00438 | 4.9694 | .51297 | .50819 | .49950 | .50365 | 2.4946 |
| #2 | .49920 | .56240 | 1.0063 | .51536 | .50333 | .49357 | .00254 | 4.9735 | .51163 | .50764 | .49879 | .50584 | 2.5007 |
| Check ? | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | .50000 | | | | | | | | | | | |
| Range | | 10.490% | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.680** | **.96328** | **19.163** | **.49394** | **.49999** | **5.1936** | **.50517** | **1.0121** | **1.0134** | **.01333** | **1.0311** | **1.0189** | **4.8859** |
| Stddev | .078 | .00277 | .047 | .00060 | .00047 | .0023 | .00002 | .0008 | .0024 | .00636 | .0045 | .0031 | .0398 |
| %RSD | .15608 | .28803 | .24469 | .12205 | .09310 | .04477 | .00430 | .07633 | .23443 | 47.713 | .43463 | .30243 | .81423 |
| #1 | 49.625 | .96131 | 19.130 | .49351 | .49966 | 5.1953 | .50515 | 1.0116 | 1.0117 | .01782 | 1.0279 | 1.0167 | 4.8578 |
| #2 | 49.735 | .96524 | 19.196 | .49436 | .50032 | 5.1920 | .50518 | 1.0127 | 1.0151 | .00883 | 1.0342 | 1.0211 | 4.9140 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.456** | **1.0004** | **.50318** | **-.00131** | **.49578** | **1.0333** | **-.03164** | **.49789** | **.48180** | **.50226** |
| Stddev | .085 | .0030 | .00045 | .00110 | .00154 | .0012 | .00636 | .00027 | .00101 | .00197 |
| %RSD | .81423 | .29912 | .08974 | 83.879 | .30997 | .11270 | 20.113 | .05487 | .21052 | .39191 |
| #1 | 10.396 | .99831 | .50286 | -.00209 | .49469 | 1.0325 | -.02714 | .49809 | .48252 | .50087 |
| #2 | 10.516 | 1.0025 | .50350 | -.00053 | .49687 | 1.0341 | -.03614 | .49770 | .48109 | .50365 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9177.8** | **113260.** | **9615.3** |
| Stddev | 24.3 | 288. | 29.7 |
| %RSD | .26496 | .25456 | .30883 |
| #1 | 9195.0 | 113060. | 9594.3 |
| #2 | 9160.6 | 113470. | 9636.3 |

Sample Name: CCB  Acquired: 8/16/2013 4:39:53  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00017** | **.00487** | **.00027** | **.00093** | **-.00012** | **.00005** | **.00309** | **-.00068** | **.00032** | **-.00003** | **-.00010** | **-.00067** |
| Stddev | .00035 | .00001 | .00294 | .00033 | .00005 | .00003 | .00338 | .00055 | .00004 | .00018 | .00006 | .00051 |
| %RSD | 207.20 | .17509 | 1100.0 | 36.081 | 43.205 | 54.740 | 109.47 | 80.511 | 10.988 | 523.68 | 60.659 | 76.399 |
| #1 | -.00008 | .00487 | -.00181 | .00116 | -.00015 | .00007 | .00548 | -.00106 | .00034 | -.00016 | -.00006 | -.00031 |
| #2 | .00042 | .00486 | .00235 | .00069 | -.00008 | .00003 | .00070 | -.00029 | .00029 | .00009 | -.00014 | -.00104 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00125** | **.07297** | **-.00038** | **.00192** | **.00008** | **.00076** | W **.16333** | **.00009** | **.00052** | **-.00181** | **.00693** | W **.00416** |
| Stddev | .00029 | .02235 | .00310 | .00065 | .00004 | .00033 | .01287 | .00031 | .00042 | .00012 | .00152 | .00306 |
| %RSD | 22.896 | 30.628 | 807.16 | 34.102 | 51.101 | 43.727 | 7.8812 | 357.44 | 81.369 | 6.7434 | 21.942 | 73.561 |
| #1 | .00105 | .08878 | .00181 | .00145 | .00011 | .00052 | .17243 | .00031 | .00022 | -.00172 | .00586 | .00200 |
| #2 | .00145 | .05717 | -.00258 | .00238 | .00005 | .00099 | .15423 | -.00013 | .00081 | -.00190 | .00801 | .00632 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00074** | **.00291** | **.00623** | **-.00047** | **.00010** | **.00180** | **.00047** | **.00096** | **-.03888** | **-.00065** | **.00142** | F **.00485** |
| Stddev | .00168 | .01646 | .03522 | .00012 | .00012 | .00233 | .00003 | .00040 | .01450 | .00006 | .00002 | .00001 |
| %RSD | 226.24 | 565.20 | 565.20 | 24.703 | 118.95 | 129.57 | 6.6267 | 41.224 | 37.298 | 9.1456 | 1.6930 | .10521 |
| #1 | -.00045 | -.00873 | -.01867 | -.00055 | .00018 | .00015 | .00045 | .00125 | -.02862 | -.00070 | .00140 | .00484 |
| #2 | .00193 | .01455 | .03114 | -.00039 | .00002 | .00345 | .00050 | .00068 | -.04913 | -.00061 | .00144 | .00485 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | | | | | | .00476 |
| Low Limit | | | | | | | | | | | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9197.7** | **114810.** | **9413.3** |
| Stddev | 9.6 | 311. | 6.8 |
| %RSD | .10483 | .27123 | .07194 |
| #1 | 9190.9 | 115030. | 9418.1 |
| #2 | 9204.5 | 114590. | 9408.5 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 4:42:08 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01048** | **.10796** | **.01790** | **.10225** | **.01031** | **.00099** | **.12144** | **.20612** | **.00537** | **.01076** | **.01029** | **.01515** | **.10555** | **3.2255** |
| Stddev | .00029 | .00036 | .00126 | .00051 | .00003 | .00001 | .00101 | .00033 | .00006 | .00000 | .00008 | .00026 | .00127 | .0394 |
| %RSD | 2.7832 | .32959 | 7.0427 | .49712 | .33519 | .94191 | .83430 | .16065 | 1.0395 | .01176 | .75881 | 1.6956 | 1.2033 | 1.2228 |
| #1 | .01069 | .10821 | .01879 | .10189 | .01034 | .00100 | .12072 | .20588 | .00541 | .01076 | .01034 | .01497 | .10465 | 3.1976 |
| #2 | .01028 | .10771 | .01701 | .10261 | .01029 | .00098 | .12216 | .20635 | .00533 | .01076 | .01023 | .01533 | .10645 | 3.2534 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01055** | **.20481** | **.01038** | **.01938** | **1.1956** | **.04263** | **3.0042** | **.00899** | **.00543** | **.00712** | **.01697** | **.49881** | **1.0674** | **.10137** |
| Stddev | .00261 | .00182 | .00000 | .00012 | .0142 | .00008 | .0006 | .00017 | .00062 | .00026 | .00210 | .00872 | .0187 | .00028 |
| %RSD | 24.768 | .88695 | .00338 | .63475 | 1.1842 | .19367 | .02050 | 1.8594 | 11.469 | 3.7071 | 12.367 | 1.7487 | 1.7487 | .27134 |
| #1 | .01240 | .20353 | .01039 | .01947 | 1.2056 | .04257 | 3.0046 | .00911 | .00587 | .00693 | .01548 | .49264 | 1.0542 | .10156 |
| #2 | .00871 | .20610 | .01038 | .01929 | 1.1856 | .04269 | 3.0037 | .00887 | .00499 | .00730 | .01845 | .50498 | 1.0806 | .10118 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01043** | **.01454** | **.01054** | **.01717** | **.06391** | **.00913** | **.02131** | **.01850** |
| Stddev | .00001 | .00180 | .00053 | .00085 | .00699 | .00053 | .00002 | .00032 |
| %RSD | .08193 | 12.386 | 5.0252 | 4.9730 | 10.935 | 5.7630 | .11023 | 1.7531 |
| #1 | .01044 | .01581 | .01091 | .01777 | .06885 | .00876 | .02133 | .01873 |
| #2 | .01043 | .01326 | .01016 | .01657 | .05896 | .00950 | .02130 | .01827 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9398.5** | **117340.** | **9637.8** |
| Stddev | 17.0 | 341. | 78.5 |
| %RSD | .18114 | .29064 | .81451 |
| #1 | 9410.5 | 117100. | 9582.2 |
| #2 | 9386.4 | 117580. | 9693.3 |

Sample Name: mb 280-187269/1-a  Acquired: 8/16/2013 4:44:25  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00076** | **.00764** | **-.00217** | **.00083** | **-.00032** | **.00000** | **.00507** | **.06566** | **.00029** | **.00009** |
| Stddev | .00020 | .00020 | .00110 | .00002 | .00001 | .00002 | .00033 | .00117 | .00016 | .00006 |
| %RSD | 25.726 | 2.6636 | 50.474 | 2.3665 | 2.4245 | 464.48 | 6.5294 | 1.7895 | 55.948 | 70.245 |
| #1 | .00090 | .00778 | -.00140 | .00082 | -.00033 | .00002 | .00531 | .06649 | .00017 | .00004 |
| #2 | .00062 | .00750 | -.00295 | .00085 | -.00032 | -.00001 | .00484 | .06483 | .00040 | .00013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00027** | **-.00012** | **.01147** | **.08722** | **-.00161** | **.01082** | **.00034** | **.00008** | **.15906** | **.00049** |
| Stddev | .00002 | .00053 | .00006 | .02587 | .00120 | .00065 | .00003 | .00010 | .02130 | .00015 |
| %RSD | 6.1410 | 456.65 | .55595 | 29.659 | 74.409 | 6.0489 | 8.2825 | 128.11 | 13.391 | 30.346 |
| #1 | .00026 | .00026 | .01151 | .10552 | -.00076 | .01035 | .00036 | .00001 | .17412 | .00039 |
| #2 | .00028 | -.00049 | .01142 | .06893 | -.00246 | .01128 | .00032 | .00014 | .14400 | .00060 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00532** | **-.00086** | **.01950** | **-.00150** | **.00230** | **.03575** | **.07651** | **.00678** | **.00018** | **.00240** |
| Stddev | .00041 | .00086 | .00060 | .00039 | .00013 | .00329 | .00705 | .00050 | .00001 | .00029 |
| %RSD | 7.6961 | 100.47 | 3.0589 | 25.839 | 5.6606 | 9.2086 | 9.2086 | 7.3164 | 5.8378 | 12.192 |
| #1 | .00561 | -.00025 | .01992 | -.00123 | .00221 | .03342 | .07153 | .00713 | .00019 | .00219 |
| #2 | .00503 | -.00146 | .01908 | -.00177 | .00240 | .03808 | .08149 | .00643 | .00017 | .00261 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00064** | **.00029** | **-.01966** | **-.00062** | **.00294** | **.00584** |
| Stddev | .00020 | .00150 | .01153 | .00014 | .00008 | .00101 |
| %RSD | 31.099 | 515.47 | 58.644 | 22.468 | 2.8893 | 17.215 |
| #1 | .00050 | -.00077 | -.01151 | -.00052 | .00300 | .00655 |
| #2 | .00078 | .00135 | -.02781 | -.00072 | .00288 | .00513 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9441.0** | **118200.** | **9806.9** |
| Stddev | 5.5 | 526. | 5.6 |
| %RSD | .05830 | .44526 | .05681 |
| #1 | 9444.9 | 117830. | 9810.8 |
| #2 | 9437.1 | 118570. | 9802.9 |

Sample Name: lcs 280-187269/2-a Acquired: 8/16/2013 4:46:39 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187269 SOIL 6010B

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 167.079 {502} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04788** | **1.8992** | **1.0077** | **.98579** | **2.0102** | **.04876** | **2.0973** | **49.013** | **.10568** | **.49290** |
| Stddev | .00068 | .0012 | .0004 | .00079 | .0046 | .00029 | .0053 | .139 | .00000 | .00059 |
| %RSD | 1.4151 | .06162 | .03717 | .07985 | .22864 | .59142 | .25405 | .28409 | .00142 | .11910 |
| #1 | .04836 | 1.8984 | 1.0080 | .98635 | 2.0069 | .04855 | 2.0936 | 48.914 | .10567 | .49248 |
| #2 | .04740 | 1.9000 | 1.0074 | .98524 | 2.0134 | .04896 | 2.1011 | 49.111 | .10568 | .49331 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 259.940 {130} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19885** | **.25038** | **.99917** | **49.840** | **.95905** | **46.754** | **.48202** | **.99496** | **51.487** | **.49059** |
| Stddev | .00034 | .00028 | .00150 | .127 | .00078 | .286 | .00283 | .00246 | .130 | .00021 |
| %RSD | .17024 | .11359 | .15055 | .25407 | .08122 | .61226 | .58667 | .24742 | .25279 | .04307 |
| #1 | .19909 | .25018 | 1.0002 | 49.751 | .95960 | 46.956 | .48402 | .99670 | 51.395 | .49074 |
| #2 | .19861 | .25058 | .99811 | 49.930 | .95849 | 46.551 | .48002 | .99322 | 51.579 | .49044 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.159** | **.49450** | **.03103** | **.48692** | **1.9766** | F **.74533** | **1.5950** | **1.9714** | **1.0047** | **.94539** |
| Stddev | .015 | .00142 | .00478 | .00002 | .0022 | .00127 | .0027 | .0012 | .0029 | .00797 |
| %RSD | .14407 | .28798 | 15.410 | .00447 | .11340 | .17045 | .17045 | .06314 | .29383 | .84278 |
| #1 | 10.170 | .49551 | .03441 | .48691 | 1.9782 | .74444 | 1.5931 | 1.9723 | 1.0026 | .95102 |
| #2 | 10.149 | .49349 | .02765 | .48694 | 1.9750 | .74623 | 1.5969 | 1.9706 | 1.0068 | .93975 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Fail | None | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | 7.0000 | | | | |
| Low Limit | | | | | | 1.0000 | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.98884** | **1.9501** | **2.1098** | **.49615** | **.46604** | **.50300** |
| Stddev | .00291 | .0010 | .0052 | .00104 | .00122 | .00227 |
| %RSD | .29464 | .05104 | .24569 | .20943 | .26159 | .45162 |
| #1 | .99090 | 1.9494 | 2.1134 | .49688 | .46690 | .50139 |
| #2 | .98678 | 1.9508 | 2.1061 | .49541 | .46518 | .50460 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | |
| Low Limit | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8949.9** | **111170.** | **9612.6** |
| Stddev | .5 | 944. | 24.3 |
| %RSD | .00520 | .84899 | .25241 |
| #1 | 8949.6 | 110510. | 9629.7 |
| #2 | 8950.2 | 111840. | 9595.4 |

Sample Name: 280-45438-a-1-a  Acquired: 8/16/2013 4:48:48  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00017** | **137.70** | **.05621** | **.08041** | **4.1485** | **.00584** | **.00134** | **86.230** | **.04475** | **.07769** |
| Stddev | .00054 | .15 | .00466 | .00029 | .0071 | .00005 | .00199 | .118 | .00029 | .00008 |
| %RSD | 313.11 | .10655 | 8.2815 | .35643 | .17145 | .82159 | 147.73 | .13632 | .65602 | .10118 |
| #1 | -.00055 | 137.81 | .05950 | .08061 | 4.1536 | .00580 | .00275 | 86.313 | .04454 | .07775 |
| #2 | .00021 | 137.60 | .05292 | .08021 | 4.1435 | .00587 | -.00006 | 86.147 | .04496 | .07763 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.25544** | **1.9663** | **252.28** | **19.327** | **.08772** | **39.876** | **4.2758** | **.09570** | **2.7273** | **.36386** |
| Stddev | .00026 | .0009 | .75 | .039 | .00190 | .031 | .0529 | .00070 | .0164 | .00041 |
| %RSD | .10253 | .04571 | .29614 | .20185 | 2.1703 | .07769 | 1.2370 | .73003 | .60169 | .11165 |
| #1 | .25525 | 1.9670 | 252.80 | 19.355 | .08638 | 39.898 | 4.3132 | .09520 | 2.7389 | .36357 |
| #2 | .25562 | 1.9657 | 251.75 | 19.299 | .08907 | 39.854 | 4.2384 | .09619 | 2.7157 | .36414 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.1630** | **4.1310** | **4.9138** | **.00958** | **.00461** | **2.9838** | **6.3853** | **.07317** | **3.5479** | **.05999** |
| Stddev | .0049 | .0023 | .0084 | .00338 | .00017 | .0224 | .0480 | .00053 | .0159 | .00039 |
| %RSD | .05941 | .05650 | .17033 | 35.273 | 3.6080 | .75120 | .75120 | .73032 | .44958 | .64314 |
| #1 | 8.1665 | 4.1294 | 4.9079 | .01196 | .00449 | 2.9996 | 6.4192 | .07355 | 3.5367 | .06026 |
| #2 | 8.1596 | 4.1327 | 4.9197 | .00719 | .00473 | 2.9679 | 6.3514 | .07279 | 3.5592 | .05971 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0708** | **-.00121** | F **-.40768** | **.41266** | W **14.427** | **.20250** |
| Stddev | .0017 | .00031 | .05001 | .00138 | .024 | .00083 |
| %RSD | .05654 | 25.970 | 12.268 | .33489 | .16563 | .40890 |
| #1 | 3.0696 | -.00144 | -.37231 | .41364 | 14.443 | .20191 |
| #2 | 3.0720 | -.00099 | -.44304 | .41168 | 14.410 | .20308 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 50.000 | | 10.000 | |
| Low Limit | | | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10435.** | **127050.** | **11360.** |
| Stddev | 29. | 342. | 20. |
| %RSD | .27346 | .26901 | .17947 |
| #1 | 10455. | 127290. | 11346. |
| #2 | 10415. | 126810. | 11375. |

Sample Name: 280-45438-a-1-aSD@5 Acquired: 8/16/2013 4:51:15 Type: Unk
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 187269 SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00011** | **32.756** | **.01315** | **.02140** | **.98359** | **.00140** | **.00273** | **20.729** | **.01056** | **.01940** |
| Stddev | .00033 | .092 | .00165 | .00004 | .00365 | .00014 | .00227 | .057 | .00001 | .00031 |
| %RSD | 296.60 | .28062 | 12.517 | .16644 | .37069 | 9.8243 | 83.151 | .27732 | .11222 | 1.5972 |
| #1 | -.00035 | 32.691 | .01432 | .02137 | .98101 | .00130 | .00112 | 20.688 | .01057 | .01962 |
| #2 | .00012 | 32.821 | .01199 | .02143 | .98617 | .00149 | .00434 | 20.769 | .01055 | .01919 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.06221** | **.45377** | **61.905** | **4.5825** | **.01875** | **9.5111** | **1.0474** | **.02277** | **.72795** | **.09052** |
| Stddev | .00034 | .00217 | .355 | .0559 | .00086 | .0079 | .0010 | .00013 | .01599 | .00010 |
| %RSD | .55458 | .47800 | .57375 | 1.2202 | 4.5982 | .08263 | .09500 | .55313 | 2.1961 | .11158 |
| #1 | .06196 | .45530 | 61.654 | 4.5430 | .01936 | 9.5166 | 1.0481 | .02268 | .73926 | .09060 |
| #2 | .06245 | .45223 | 62.156 | 4.6221 | .01814 | 9.5055 | 1.0466 | .02286 | .71665 | .09045 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9318** | **1.0295** | **1.1450** | **-.00181** | **.00006** | **.73002** | **1.5622** | **.01730** | **.86877** | **.01366** |
| Stddev | .0004 | .0013 | .0021 | .00143 | .00318 | .00006 | .0001 | .00034 | .00390 | .00086 |
| %RSD | .01804 | .12512 | .18217 | 79.046 | 5566.2 | .00865 | .00865 | 1.9504 | .44900 | 6.3323 |
| #1 | 1.9320 | 1.0286 | 1.1464 | -.00282 | -.00219 | .73007 | 1.5623 | .01706 | .86602 | .01427 |
| #2 | 1.9315 | 1.0304 | 1.1435 | -.00080 | .00231 | .72998 | 1.5622 | .01753 | .87153 | .01304 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.72317** | **-.00085** | W **-.08483** | **.09694** | **3.5565** | **.05173** |
| Stddev | .00271 | .00044 | .06648 | .00048 | .0171 | .00043 |
| %RSD | .37498 | 52.482 | 78.365 | .49550 | .48066 | .82967 |
| #1 | .72508 | -.00116 | -.13184 | .09728 | 3.5685 | .05143 |
| #2 | .72125 | -.00053 | -.03782 | .09660 | 3.5444 | .05204 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9533.0** | **117060.** | **9965.1** |
| Stddev | 1.7 | 477. | 12.2 |
| %RSD | .01822 | .40745 | .12267 |
| #1 | 9534.2 | 116720. | 9973.7 |
| #2 | 9531.8 | 117390. | 9956.4 |

Sample Name: 280-45438-a-1-b ms  Acquired: 8/16/2013 4:53:29  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04104** | **185.14** | **1.0025** | **.89369** | **4.8179** | **.04763** | F **1.7237** | **107.46** | **.12436** | **.46228** |
| Stddev | .00027 | .87 | .0017 | .00072 | .1673 | .00029 | .0102 | .55 | .00009 | .00011 |
| %RSD | .66851 | .47188 | .16985 | .08039 | 3.4714 | .61170 | .58953 | .50916 | .07520 | .02385 |
| #1 | .04085 | 184.52 | 1.0013 | .89420 | 4.6996 | .04743 | 1.7309 | 107.07 | .12443 | .46236 |
| #2 | .04124 | 185.76 | 1.0037 | .89319 | 4.9361 | .04784 | 1.7165 | 107.84 | .12430 | .46220 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.44090** | **2.8164** | **246.38** | **65.339** | **.91110** | **78.549** | **4.2066** | **.79069** | **45.698** | **.76569** |
| Stddev | .00017 | .0076 | .98 | .433 | .00169 | .179 | .0021 | .00004 | .078 | .00166 |
| %RSD | .03759 | .27145 | .39901 | .66289 | .18498 | .22777 | .04986 | .00531 | .17060 | .21669 |
| #1 | .44101 | 2.8110 | 245.69 | 65.033 | .90990 | 78.676 | 4.2081 | .79072 | 45.643 | .76686 |
| #2 | .44078 | 2.8218 | 247.08 | 65.645 | .91229 | 78.423 | 4.2051 | .79066 | 45.753 | .76452 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **14.913** | **4.9039** | **4.7648** | **.20477** | **1.6035** | **5.3697** | **11.491** | **1.5818** | **2.9684** | **.85698** |
| Stddev | .004 | .0010 | .0065 | .00088 | .0052 | .0507 | .108 | .0015 | .0365 | .00131 |
| %RSD | .02704 | .02080 | .13700 | .42990 | .32129 | .94411 | .94411 | .09488 | 1.2291 | .15249 |
| #1 | 14.915 | 4.9032 | 4.7694 | .20539 | 1.6071 | 5.3339 | 11.415 | 1.5829 | 2.9942 | .85791 |
| #2 | 14.910 | 4.9046 | 4.7602 | .20415 | 1.5998 | 5.4056 | 11.568 | 1.5807 | 2.9426 | .85606 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.8284** | **1.4782** | **1.2333** | **.81689** | W **12.449** | **.62238** |
| Stddev | .0132 | .0008 | .0293 | .00152 | .020 | .00307 |
| %RSD | .22557 | .05565 | 2.3764 | .18608 | .16356 | .49256 |
| #1 | 5.8191 | 1.4776 | 1.2541 | .81582 | 12.464 | .62021 |
| #2 | 5.8377 | 1.4787 | 1.2126 | .81797 | 12.435 | .62455 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 10.000 | |
| Low Limit | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10554.** | **128480.** | **11822.** |
| Stddev | 2. | 160. | 218. |
| %RSD | .01911 | .12452 | 1.8471 |
| #1 | 10555. | 128360. | 11977. |
| #2 | 10552. | 128590. | 11668. |

Sample Name: 280-45438-a-1-c msd  Acquired: 8/16/2013 4:56:03  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.04061** | **205.07** | **.91454** | **.91301** | **5.3618** | **.04838** | F **1.7408** | **114.98** | **.12921** | **.47367** |
| Stddev | .00066 | .34 | .00133 | .00058 | .1287 | .00033 | .0032 | .25 | .00007 | .00023 |
| %RSD | 1.6171 | .16602 | .14522 | .06400 | 2.4007 | .67865 | .18601 | .21809 | .05050 | .04928 |
| #1 | .04107 | 204.83 | .91360 | .91343 | 5.2707 | .04814 | 1.7385 | 114.80 | .12925 | .47384 |
| #2 | .04015 | 205.31 | .91548 | .91260 | 5.4528 | .04861 | 1.7430 | 115.16 | .12916 | .47351 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | .10000 | | | |
| Low Limit | | | | | | | -.10000 | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.38414** | **2.9755** | **275.13** | **68.518** | **.92886** | **85.119** | **5.0085** | **.79460** | **46.675** | **.86714** |
| Stddev | .00051 | .0036 | .73 | .201 | .00352 | .725 | .0325 | .00133 | .284 | .00143 |
| %RSD | .13308 | .11975 | .26508 | .29332 | .37888 | .85170 | .64963 | .16796 | .60936 | .16536 |
| #1 | .38378 | 2.9780 | 274.61 | 68.376 | .92637 | 84.606 | 4.9855 | .79365 | 46.876 | .86613 |
| #2 | .38450 | 2.9729 | 275.64 | 68.660 | .93135 | 85.631 | 5.0315 | .79554 | 46.474 | .86816 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **15.977** | **6.2892** | **7.0698** | **.19023** | **1.6178** | **5.5739** | **11.928** | **1.6177** | **3.2766** | **.86443** |
| Stddev | .000 | .0024 | .0059 | .00014 | .0051 | .0642 | .137 | .0045 | .0372 | .00217 |
| %RSD | .00072 | .03836 | .08389 | .07516 | .31385 | 1.1520 | 1.1520 | .27570 | 1.1353 | .25070 |
| #1 | 15.977 | 6.2909 | 7.0740 | .19033 | 1.6214 | 5.5285 | 11.831 | 1.6209 | 3.2503 | .86290 |
| #2 | 15.977 | 6.2875 | 7.0656 | .19013 | 1.6142 | 5.6193 | 12.025 | 1.6146 | 3.3029 | .86597 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.8268** | **1.4745** | **1.2241** | **.86881** | W **16.043** | **.64433** |
| Stddev | .0232 | .0034 | .0309 | .00184 | .083 | .00041 |
| %RSD | .34026 | .23261 | 2.5259 | .21126 | .51533 | .06423 |
| #1 | 6.8104 | 1.4769 | 1.2023 | .86752 | 15.984 | .64404 |
| #2 | 6.8432 | 1.4721 | 1.2460 | .87011 | 16.101 | .64462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | | | 10.000 | |
| Low Limit | | | | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10573.** | **128400.** | **11839.** |
| Stddev | 12. | 818. | 1. |
| %RSD | .11090 | .63708 | .00790 |
| #1 | 10564. | 128980. | 11839. |
| #2 | 10581. | 127820. | 11840. |

Sample Name: 280-45438-a-2-a  Acquired: 8/16/2013 4:58:38  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00585** | **352.36** | **.15449** | **.20951** | **4.2394** | **.00307** | **.03098** | **85.263** | **.08433** | **.08871** |
| Stddev | .00019 | 1.08 | .00336 | .00139 | .0027 | .00002 | .00031 | .211 | .00069 | .00070 |
| %RSD | 3.2648 | .30779 | 2.1758 | .66529 | .06260 | .69732 | 1.0117 | .24796 | .81974 | .79051 |
| #1 | .00572 | 351.59 | .15687 | .21050 | 4.2376 | .00306 | .03120 | 85.114 | .08482 | .08921 |
| #2 | .00599 | 353.12 | .15211 | .20852 | 4.2413 | .00309 | .03076 | 85.413 | .08384 | .08822 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.52670** | W **12.081** | W **920.07** | **10.956** | **.05840** | **33.427** | **6.8587** | **.06925** | **1.9115** | **4.1724** |
| Stddev | .00163 | .179 | .34 | .019 | .00001 | .044 | .0066 | .00093 | .0071 | .0115 |
| %RSD | .31019 | 1.4842 | .03745 | .17613 | .01902 | .13136 | .09556 | 1.3390 | .37355 | .27523 |
| #1 | .52786 | 12.207 | 920.32 | 10.942 | .05839 | 33.396 | 6.8541 | .06991 | 1.9166 | 4.1806 |
| #2 | .52555 | 11.954 | 919.83 | 10.970 | .05841 | 33.458 | 6.8634 | .06860 | 1.9065 | 4.1643 |
| Check ? | Chk Pass | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | 10.000 | 500.00 | | | | | | | |
| Low Limit | | -.01000 | 40.000 | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **7.0824** | W **16.033** | **17.640** | **.03241** | **-.00154** | **2.7759** | **5.9404** | **.29303** | **2.2611** | **.00208** |
| Stddev | .0197 | .025 | .025 | .00092 | .00059 | .0109 | .0232 | .00420 | .0014 | .00109 |
| %RSD | .27843 | .15373 | .14114 | 2.8433 | 38.491 | .39118 | .39118 | 1.4330 | .06228 | 52.258 |
| #1 | 7.0963 | 16.050 | 17.658 | .03306 | -.00112 | 2.7682 | 5.9239 | .29600 | 2.2601 | .00131 |
| #2 | 7.0684 | 16.015 | 17.622 | .03176 | -.00196 | 2.7836 | 5.9568 | .29006 | 2.2621 | .00285 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | -.00300 | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.5684** | W **-.01051** | F **-.18994** | **.31055** | W **41.314** | **.14276** |
| Stddev | .0058 | .00028 | .03393 | .00099 | .093 | .00206 |
| %RSD | .36790 | 2.6751 | 17.863 | .31826 | .22453 | 1.4447 |
| #1 | 1.5643 | -.01031 | -.21394 | .30985 | 41.380 | .14422 |
| #2 | 1.5724 | -.01071 | -.16595 | .31125 | 41.249 | .14130 |
| Check ? | Chk Pass | Chk Warn | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | 5.0000 | 50.000 | | 10.000 | |
| Low Limit | | -.01000 | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9676.0** | **116140.** | **10793.** |
| Stddev | 10.5 | 208. | 96. |
| %RSD | .10871 | .17906 | .88660 |
| #1 | 9668.6 | 116290. | 10861. |
| #2 | 9683.4 | 115990. | 10725. |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 5:01:39 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **49.367** | **.00374** | **.00397** | **.00090** | **.00002** | **1.0321** | **-.00122** | **.00034** | **.00035** | **-.00008** | **.00201** | **49.145** |
| Stddev | .00007 | .189 | .00275 | .00028 | .00020 | .00001 | .0003 | .00116 | .00021 | .00012 | .00016 | .00028 | .213 |
| %RSD | 360.42 | .38275 | 73.483 | 7.0704 | 21.718 | 38.110 | .03171 | 95.234 | 62.704 | 33.486 | 213.23 | 14.023 | .43412 |
| #1 | -.00003 | 49.500 | .00180 | .00417 | .00104 | .00001 | 1.0318 | -.00040 | .00049 | .00043 | -.00019 | .00221 | 48.994 |
| #2 | .00007 | 49.233 | .00568 | .00377 | .00076 | .00003 | 1.0323 | -.00204 | .00019 | .00027 | .00004 | .00181 | 49.295 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15527** | **.00224** | **.00629** | **.00029** | **.00036** | **254.53** | **.00108** | **.00414** | **-.00047** | **5.1490** | **-.00103** | **-.00360** | **.01789** |
| Stddev | .03734 | .00023 | .00074 | .00002 | .00050 | .64 | .00010 | .00148 | .00014 | .0125 | .00007 | .00089 | .00312 |
| %RSD | 24.049 | 10.141 | 11.790 | 7.1076 | 136.67 | .25332 | 9.5336 | 35.668 | 30.880 | .24339 | 6.4701 | 24.576 | 17.447 |
| #1 | .12886 | .00208 | .00682 | .00031 | .00001 | 254.08 | .00101 | .00310 | -.00036 | 5.1401 | -.00108 | -.00423 | .01568 |
| #2 | .18167 | .00240 | .00577 | .00028 | .00072 | 254.99 | .00115 | .00519 | -.00057 | 5.1579 | -.00099 | -.00298 | .02010 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.03829** | **-.00050** | **.00050** | **4.8742** | **.00080** | **.00217** | **10.213** | **.00030** | **.00202** | **.02248** |
| Stddev | .00668 | .00031 | .00005 | .0168 | .00006 | .00046 | .009 | .00011 | .00013 | .00251 |
| %RSD | 17.447 | 61.537 | 10.364 | .34555 | 7.8368 | 21.044 | .08672 | 37.884 | 6.5118 | 11.143 |
| #1 | .03356 | -.00028 | .00046 | 4.8861 | .00075 | .00184 | 10.220 | .00038 | .00192 | .02071 |
| #2 | .04301 | -.00072 | .00053 | 4.8623 | .00084 | .00249 | 10.207 | .00022 | .00211 | .02426 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9042.8** | **111170.** | **9694.9** |
| Stddev | 7.4 | 641. | 93.4 |
| %RSD | .08191 | .57623 | .96320 |
| #1 | 9048.0 | 110720. | 9628.9 |
| #2 | 9037.5 | 111630. | 9760.9 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 5:04:01 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49078** | **.51272** | **.99976** | **.51053** | **.49977** | **.49189** | **.00412** | **4.9754** | **.50850** | **.50615** | **.49597** | **.49914** | **2.5097** |
| Stddev | .00160 | .00095 | .00275 | .00164 | .00012 | .00054 | .00097 | .0179 | .00095 | .00038 | .00001 | .00020 | .0030 |
| %RSD | .32670 | .18511 | .27460 | .32086 | .02392 | .10958 | 23.497 | .35874 | .18760 | .07495 | .00214 | .04100 | .11953 |
| #1 | .48965 | .51339 | 1.0017 | .50937 | .49969 | .49151 | .00481 | 4.9880 | .50782 | .50642 | .49598 | .49929 | 2.5076 |
| #2 | .49192 | .51205 | .99782 | .51168 | .49986 | .49227 | .00344 | 4.9628 | .50917 | .50588 | .49596 | .49900 | 2.5119 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.497** | **.95531** | **18.949** | **.48929** | **.49722** | **5.1085** | **.50300** | **1.0063** | **1.0105** | **.00369** | **1.0226** | **1.0127** | **4.8588** |
| Stddev | .089 | .00131 | .059 | .00136 | .00063 | .0185 | .00001 | .0040 | .0008 | .00029 | .0022 | .0035 | .0138 |
| %RSD | .17941 | .13727 | .30890 | .27737 | .12717 | .36174 | .00171 | .39733 | .07679 | 7.9699 | .21255 | .34822 | .28463 |
| #1 | 49.560 | .95624 | 18.907 | .48833 | .49767 | 5.1215 | .50299 | 1.0034 | 1.0100 | .00390 | 1.0242 | 1.0151 | 4.8686 |
| #2 | 49.434 | .95439 | 18.990 | .49025 | .49678 | 5.0954 | .50300 | 1.0091 | 1.0111 | .00348 | 1.0211 | 1.0102 | 4.8490 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.398** | **.99181** | **.50200** | **-.00267** | **.49352** | **1.0263** | **-.04417** | **.49453** | **.47786** | **.50059** |
| Stddev | .030 | .00048 | .00024 | .00167 | .00016 | .0024 | .01445 | .00135 | .00151 | .00062 |
| %RSD | .28463 | .04833 | .04858 | 62.423 | .03146 | .23107 | 32.716 | .27334 | .31642 | .12370 |
| #1 | 10.419 | .99215 | .50217 | -.00149 | .49341 | 1.0280 | -.03395 | .49357 | .47679 | .50102 |
| #2 | 10.377 | .99147 | .50183 | -.00385 | .49363 | 1.0246 | -.05439 | .49548 | .47893 | .50015 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9268.0** | **114920.** | **9640.4** |
| Stddev | 9.3 | 523. | 95.8 |
| %RSD | .10015 | .45528 | .99371 |
| #1 | 9261.5 | 115290. | 9572.7 |
| #2 | 9274.6 | 114550. | 9708.1 |

Sample Name: CCB  Acquired: 8/16/2013 5:06:07  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00044** | **.00432** | **.00153** | **.00239** | **-.00013** | **.00009** | **.00256** | **.00247** | **.00018** | **-.00002** | **-.00007** | **-.00086** |
| Stddev | .00035 | .00018 | .00037 | .00033 | .00028 | .00003 | .00060 | .00060 | .00008 | .00011 | .00009 | .00021 |
| %RSD | 78.644 | 4.2798 | 24.379 | 13.823 | 222.00 | 38.981 | 23.486 | 24.390 | 45.099 | 462.61 | 126.21 | 24.630 |
| #1 | .00020 | .00419 | .00180 | .00262 | .00007 | .00011 | .00213 | .00289 | .00012 | -.00010 | -.00014 | -.00101 |
| #2 | .00069 | .00445 | .00127 | .00215 | -.00033 | .00006 | .00298 | .00204 | .00024 | .00006 | -.00001 | -.00071 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01016** | **.11325** | **.00119** | **.00182** | **.00021** | **.00067** | W **.09831** | **.00029** | **.00122** | **-.00008** | **.00556** | W **.00405** |
| Stddev | .00194 | .06000 | .00383 | .00024 | .00002 | .00050 | .00471 | .00003 | .00017 | .00039 | .00177 | .00104 |
| %RSD | 19.061 | 52.981 | 321.24 | 13.233 | 9.9882 | 73.622 | 4.7881 | 9.2720 | 14.084 | 493.34 | 31.838 | 25.721 |
| #1 | .01153 | .15568 | -.00152 | .00199 | .00020 | .00032 | .10164 | .00027 | .00134 | .00019 | .00682 | .00331 |
| #2 | .00879 | .07082 | .00390 | .00165 | .00023 | .00102 | .09498 | .00031 | .00110 | -.00035 | .00431 | .00478 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | .09160 | | | | | .00314 |
| Low Limit | | | | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00433** | **.01505** | **.03221** | **-.00061** | **.00020** | **.00064** | **.00041** | **.00076** | **-.01628** | **-.00048** | **.00176** | W **.00412** |
| Stddev | .00156 | .00403 | .00863 | .00040 | .00008 | .00004 | .00029 | .00001 | .00253 | .00018 | .00015 | .00021 |
| %RSD | 35.982 | 26.793 | 26.793 | 65.356 | 38.878 | 6.5403 | 68.921 | 1.2403 | 15.568 | 37.468 | 8.5859 | 5.2069 |
| #1 | .00323 | .01220 | .02611 | -.00033 | .00025 | .00061 | .00062 | .00077 | -.01807 | -.00036 | .00165 | .00396 |
| #2 | .00544 | .01790 | .03831 | -.00089 | .00014 | .00067 | .00021 | .00075 | -.01449 | -.00061 | .00187 | .00427 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9287.8** | **115880.** | **9485.4** |
| Stddev | 17.0 | 55. | .5 |
| %RSD | .18253 | .04716 | .00573 |
| #1 | 9299.8 | 115840. | 9485.8 |
| #2 | 9275.8 | 115910. | 9485.0 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 5:08:23 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01011** | **.10908** | **.01527** | **.10108** | **.00986** | **.00097** | **.11893** | **.20687** | **.00524** | **.01046** | **.01002** | **.01508** | **.10899** | **3.1023** |
| Stddev | .00025 | .00088 | .00085 | .00099 | .00003 | .00002 | .00360 | .00206 | .00007 | .00004 | .00013 | .00032 | .00061 | .0581 |
| %RSD | 2.4729 | .80818 | 5.5582 | .97574 | .29149 | 2.0850 | 3.0261 | .99726 | 1.3461 | .34066 | 1.3469 | 2.1393 | .55586 | 1.8728 |
| #1 | .01028 | .10970 | .01467 | .10177 | .00988 | .00099 | .12147 | .20541 | .00529 | .01043 | .01012 | .01531 | .10942 | 3.0613 |
| #2 | .00993 | .10846 | .01588 | .10038 | .00984 | .00096 | .11638 | .20833 | .00519 | .01048 | .00993 | .01486 | .10856 | 3.1434 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01112** | **.20501** | **.01015** | **.01936** | **1.1141** | **.04172** | **2.9399** | **.00865** | **.00413** | **.00806** | **.01468** | **.47620** | **1.0191** | **.09927** |
| Stddev | .00221 | .00010 | .00001 | .00014 | .0203 | .00010 | .0153 | .00053 | .00100 | .00148 | .00335 | .00205 | .0044 | .00017 |
| %RSD | 19.845 | .04732 | .11480 | .71805 | 1.8256 | .22809 | .52007 | 6.1179 | 24.194 | 18.358 | 22.781 | .43123 | .43123 | .16878 |
| #1 | .00956 | .20507 | .01016 | .01926 | 1.0998 | .04165 | 2.9507 | .00828 | .00484 | .00701 | .01705 | .47765 | 1.0222 | .09939 |
| #2 | .01268 | .20494 | .01014 | .01946 | 1.1285 | .04179 | 2.9291 | .00903 | .00343 | .00910 | .01232 | .47474 | 1.0160 | .09915 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | | |

| Elem | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01023** | **.01406** | **.01015** | **.01722** | **.06536** | **.00921** | **.02177** | **.01949** |
| Stddev | .00006 | .00075 | .00025 | .00005 | .00786 | .00034 | .00009 | .00159 |
| %RSD | .57772 | 5.3680 | 2.4594 | .28505 | 12.028 | 3.7044 | .41373 | 8.1679 |
| #1 | .01018 | .01460 | .01033 | .01719 | .05980 | .00945 | .02170 | .01836 |
| #2 | .01027 | .01353 | .00998 | .01726 | .07092 | .00897 | .02183 | .02061 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9456.2** | **117180.** | **9659.1** |
| Stddev | 52.7 | 649. | 20.5 |
| %RSD | .55694 | .55395 | .21271 |
| #1 | 9493.4 | 117640. | 9644.6 |
| #2 | 9419.0 | 116720. | 9673.7 |

Sample Name: 280-45438-a-3-a  Acquired: 8/16/2013 5:10:40  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00012** | **155.42** | **.07618** | **.05966** | **2.9700** | **.00406** | **.00780** | **85.874** | **.17904** | **.06785** |
| Stddev | .00008 | .04 | .00040 | .00041 | .0052 | .00009 | .00248 | .185 | .00060 | .00016 |
| %RSD | 64.112 | .02723 | .52436 | .67989 | .17544 | 2.3376 | 31.820 | .21504 | .33681 | .23151 |
| #1 | -.00006 | 155.45 | .07647 | .05995 | 2.9737 | .00399 | .00955 | 86.005 | .17862 | .06796 |
| #2 | -.00017 | 155.39 | .07590 | .05937 | 2.9663 | .00412 | .00604 | 85.744 | .17947 | .06774 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.15929** | **2.6853** | **288.81** | **12.123** | **.09076** | **35.420** | **6.3764** | **.02505** | **2.8490** | **.33046** |
| Stddev | .00044 | .0067 | .76 | .006 | .00216 | .018 | .0059 | .00007 | .0131 | .00006 |
| %RSD | .27629 | .25130 | .26185 | .04992 | 2.3810 | .05101 | .09272 | .29542 | .45849 | .01745 |
| #1 | .15960 | 2.6900 | 289.35 | 12.119 | .09229 | 35.408 | 6.3806 | .02510 | 2.8582 | .33050 |
| #2 | .15898 | 2.6805 | 288.28 | 12.127 | .08923 | 35.433 | 6.3722 | .02499 | 2.8397 | .33042 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.051** | W **22.541** | **4.0038** | **.04498** | **.00215** | **2.3419** | **5.0117** | **.09572** | **2.8038** | **.03159** |
| Stddev | .006 | .012 | .0094 | .00218 | .00069 | .0058 | .0124 | .00047 | .0036 | .00200 |
| %RSD | .06178 | .05312 | .23430 | 4.8558 | 32.325 | .24749 | .24749 | .48903 | .12655 | 6.3458 |
| #1 | 10.055 | 22.549 | 4.0104 | .04652 | .00264 | 2.3460 | 5.0205 | .09539 | 2.8063 | .03017 |
| #2 | 10.046 | 22.533 | 3.9971 | .04344 | .00166 | 2.3378 | 5.0029 | .09605 | 2.8013 | .03301 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | -.00300 | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9805** | **-.00422** | F **-.30196** | **.40702** | **7.3830** | **.23359** |
| Stddev | .0022 | .00004 | .05239 | .00031 | .0053 | .00055 |
| %RSD | .11139 | 1.0077 | 17.350 | .07667 | .07117 | .23360 |
| #1 | 1.9820 | -.00425 | -.26491 | .40725 | 7.3793 | .23397 |
| #2 | 1.9789 | -.00419 | -.33901 | .40680 | 7.3867 | .23320 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10075.** | **122150.** | **10870.** |
| Stddev | 9. | 149. | 7. |
| %RSD | .09269 | .12178 | .06790 |
| #1 | 10068. | 122260. | 10875. |
| #2 | 10082. | 122050. | 10865. |

Sample Name: 280-45438-a-4-a  Acquired: 8/16/2013 5:13:00  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00198** | **86.879** | **.06027** | **.09921** | **2.5175** | **.00359** | **.00878** | **32.145** | **.14759** | **.06251** |
| Stddev | .00005 | .342 | .00288 | .00002 | .0171 | .00003 | .00090 | .222 | .00029 | .00005 |
| %RSD | 2.3640 | .39374 | 4.7860 | .02121 | .67771 | .72261 | 10.297 | .69027 | .19414 | .08646 |
| #1 | .00202 | 86.637 | .05823 | .09922 | 2.5054 | .00357 | .00814 | 31.988 | .14779 | .06255 |
| #2 | .00195 | 87.121 | .06231 | .09919 | 2.5295 | .00360 | .00942 | 32.302 | .14738 | .06247 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.27846** | **5.0909** | **210.34** | **12.458** | **.04871** | **37.985** | **2.8513** | **.05063** | **.96645** | **1.3694** |
| Stddev | .00038 | .0059 | 1.61 | .133 | .00118 | .090 | .0374 | .00032 | .00602 | .0018 |
| %RSD | .13686 | .11494 | .76646 | 1.0690 | 2.4189 | .23626 | 1.3112 | .63972 | .62246 | .13162 |
| #1 | .27873 | 5.0950 | 209.20 | 12.364 | .04954 | 38.049 | 2.8777 | .05086 | .96220 | 1.3706 |
| #2 | .27819 | 5.0868 | 211.48 | 12.552 | .04788 | 37.922 | 2.8249 | .05040 | .97071 | 1.3681 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.6203** | **6.2154** | **6.9417** | **.02636** | **.00198** | **2.4359** | **5.2129** | **.24154** | **.78199** | **.04594** |
| Stddev | .0107 | .0065 | .0058 | .00071 | .00038 | .0144 | .0309 | .00176 | .00451 | .00439 |
| %RSD | .23261 | .10505 | .08413 | 2.6989 | 19.079 | .59307 | .59307 | .72832 | .57622 | 9.5592 |
| #1 | 4.6279 | 6.2200 | 6.9458 | .02686 | .00224 | 2.4257 | 5.1911 | .24279 | .77880 | .04905 |
| #2 | 4.6127 | 6.2107 | 6.9376 | .02586 | .00171 | 2.4462 | 5.2348 | .24030 | .78518 | .04284 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7158** | **-.00090** | F **-.23684** | **.18077** | W **25.580** | **.10839** |
| Stddev | .0080 | .00037 | .04587 | .00041 | .068 | .00225 |
| %RSD | .46386 | 40.817 | 19.366 | .22573 | .26702 | 2.0763 |
| #1 | 1.7214 | -.00064 | -.26928 | .18106 | 25.628 | .10680 |
| #2 | 1.7101 | -.00116 | -.20441 | .18049 | 25.531 | .10999 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 50.000 | | 10.000 | |
| Low Limit | | | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10055.** | **123170.** | **10739.** |
| Stddev | 4. | 350. | 1. |
| %RSD | .04314 | .28384 | .01300 |
| #1 | 10052. | 122930. | 10740. |
| #2 | 10058. | 123420. | 10738. |

Sample Name: 280-45438-a-5-a  Acquired: 8/16/2013 5:15:20  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00003** | **144.34** | **.09319** | **.05673** | **4.1140** | **.00396** | **.00376** | **78.824** | **.05754** | **.07800** |
| Stddev | .00036 | .94 | .00138 | .00005 | .0240 | .00005 | .00121 | .494 | .00023 | .00034 |
| %RSD | 1277.1 | .65426 | 1.4806 | .09343 | .58457 | 1.3024 | 32.095 | .62654 | .40461 | .43388 |
| #1 | .00029 | 143.68 | .09221 | .05669 | 4.0970 | .00400 | .00290 | 78.475 | .05738 | .07776 |
| #2 | -.00023 | 145.01 | .09417 | .05677 | 4.1310 | .00392 | .00461 | 79.174 | .05771 | .07824 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20300** | **1.9969** | **269.32** | **14.831** | **.08069** | **32.051** | **4.8622** | **.03543** | **3.8387** | **.39110** |
| Stddev | .00065 | .0016 | 1.85 | .058 | .00163 | .066 | .0467 | .00035 | .0250 | .00048 |
| %RSD | .31913 | .07943 | .68842 | .39302 | 2.0258 | .20669 | .96081 | .98678 | .65018 | .12184 |
| #1 | .20255 | 1.9980 | 268.01 | 14.790 | .07953 | 32.098 | 4.8952 | .03519 | 3.8211 | .39143 |
| #2 | .20346 | 1.9958 | 270.63 | 14.872 | .08185 | 32.005 | 4.8292 | .03568 | 3.8564 | .39076 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **8.9354** | W **10.900** | **3.8067** | **.04377** | **.00093** | **2.2577** | **4.8315** | **.31431** | W **5.0963** | **.03952** |
| Stddev | .0039 | .007 | .0097 | .00056 | .00222 | .0474 | .1015 | .00010 | .0431 | .00071 |
| %RSD | .04322 | .06817 | .25588 | 1.2789 | 239.21 | 2.1002 | 2.1002 | .03329 | .84488 | 1.7857 |
| #1 | 8.9327 | 10.905 | 3.7998 | .04416 | .00250 | 2.2242 | 4.7598 | .31424 | 5.1267 | .04002 |
| #2 | 8.9381 | 10.894 | 3.8136 | .04337 | -.00064 | 2.2913 | 4.9033 | .31438 | 5.0658 | .03902 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass |
| High Limit | 2.0000 | 10.000 | | | | | | | 5.0000 | |
| Low Limit | -1.0000 | -.00300 | | | | | | | -.01000 | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.0565** | **-.00233** | F **-.30464** | **.42154** | W **11.469** | **.20599** |
| Stddev | .0012 | .00100 | .03178 | .00181 | .059 | .00483 |
| %RSD | .05862 | 42.740 | 10.430 | .42829 | .51006 | 2.3445 |
| #1 | 2.0573 | -.00163 | -.32711 | .42282 | 11.511 | .20258 |
| #2 | 2.0556 | -.00303 | -.28218 | .42027 | 11.428 | .20941 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 50.000 | | 10.000 | |
| Low Limit | | | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10095.** | **122140.** | **10854.** |
| Stddev | 7. | 601. | 38. |
| %RSD | .06937 | .49213 | .34652 |
| #1 | 10100. | 121720. | 10828. |
| #2 | 10090. | 122570. | 10881. |

Sample Name: 280-45438-a-6-a  Acquired: 8/16/2013 5:17:45  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00094** | **68.518** | **.05554** | **.06163** | **1.7725** | **.00642** | **.00038** | **48.852** | **.02385** | **.03433** |
| Stddev | .00027 | .052 | .00133 | .00014 | .0031 | .00005 | .00096 | .010 | .00012 | .00009 |
| %RSD | 29.180 | .07564 | 2.4029 | .22536 | .17251 | .84835 | 255.96 | .01992 | .48535 | .26006 |
| #1 | .00074 | 68.555 | .05648 | .06173 | 1.7704 | .00646 | -.00030 | 48.845 | .02393 | .03427 |
| #2 | .00113 | 68.482 | .05459 | .06154 | 1.7747 | .00638 | .00106 | 48.859 | .02377 | .03439 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.13970** | **.44641** | **128.67** | **16.841** | **.06149** | **16.747** | **3.7938** | **.03972** | **1.4361** | **.09057** |
| Stddev | .00031 | .00090 | .20 | .038 | .00023 | .026 | .0030 | .00037 | .0080 | .00054 |
| %RSD | .22446 | .20137 | .15719 | .22380 | .37893 | .15474 | .07901 | .92380 | .55870 | .59167 |
| #1 | .13948 | .44577 | 128.81 | 16.815 | .06132 | 16.729 | 3.7960 | .03946 | 1.4418 | .09019 |
| #2 | .13992 | .44704 | 128.53 | 16.868 | .06165 | 16.766 | 3.7917 | .03998 | 1.4304 | .09095 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.4457** | **2.1595** | **2.4937** | **.00156** | **.00311** | **2.4918** | **5.3324** | **.05719** | **.58366** | **.08729** |
| Stddev | .0030 | .0016 | .0044 | .00025 | .00155 | .0002 | .0004 | .00004 | .00033 | .00108 |
| %RSD | .06720 | .07317 | .17684 | 15.960 | 49.850 | .00711 | .00711 | .07263 | .05620 | 1.2396 |
| #1 | 4.4436 | 2.1584 | 2.4968 | .00139 | .00421 | 2.4919 | 5.3327 | .05716 | .58390 | .08806 |
| #2 | 4.4478 | 2.1606 | 2.4906 | .00174 | .00201 | 2.4917 | 5.3321 | .05722 | .58343 | .08653 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7179** | **-.00163** | F **-.49955** | **.16849** | **2.8091** | **.08698** |
| Stddev | .0004 | .00018 | .05684 | .00059 | .0027 | .00035 |
| %RSD | .02419 | 10.756 | 11.379 | .34738 | .09587 | .40162 |
| #1 | 1.7176 | -.00175 | -.45936 | .16890 | 2.8110 | .08673 |
| #2 | 1.7182 | -.00150 | -.53974 | .16807 | 2.8071 | .08722 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10588.** | **129980.** | **11196.** |
| Stddev | 25. | 14. | 72. |
| %RSD | .23854 | .01073 | .64347 |
| #1 | 10606. | 129970. | 11145. |
| #2 | 10571. | 129990. | 11247. |

Sample Name: 280-45438-a-7-a  Acquired: 8/16/2013 5:20:00  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00577** | **75.890** | **.06521** | **.08098** | **2.4156** | **.00514** | **.00451** | **58.257** | **.03478** | **.04723** |
| Stddev | .00009 | .185 | .00061 | .00045 | .0045 | .00006 | .00212 | .241 | .00004 | .00020 |
| %RSD | 1.5965 | .24350 | .93892 | .56123 | .18492 | 1.0807 | 46.975 | .41410 | .12454 | .41931 |
| #1 | .00570 | 75.759 | .06564 | .08066 | 2.4124 | .00518 | .00601 | 58.086 | .03475 | .04709 |
| #2 | .00583 | 76.021 | .06477 | .08130 | 2.4187 | .00510 | .00301 | 58.427 | .03482 | .04737 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20377** | **1.1611** | **195.73** | **17.578** | **.06610** | **22.237** | **5.3153** | **.05223** | **1.5078** | **.20397** |
| Stddev | .00021 | .0021 | .64 | .034 | .00068 | .063 | .0082 | .00047 | .0065 | .00065 |
| %RSD | .10277 | .18004 | .32785 | .19129 | 1.0342 | .28470 | .15457 | .90530 | .43228 | .31982 |
| #1 | .20392 | 1.1596 | 195.28 | 17.554 | .06659 | 22.192 | 5.3211 | .05190 | 1.5124 | .20351 |
| #2 | .20362 | 1.1626 | 196.19 | 17.602 | .06562 | 22.281 | 5.3095 | .05257 | 1.5032 | .20443 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.7075** | **3.6851** | **4.8269** | **.01043** | **-.00008** | **3.0635** | **6.5558** | **.07976** | **.91107** | **.11975** |
| Stddev | .0029 | .0071 | .0135 | .00220 | .00112 | .0210 | .0449 | .00054 | .00107 | .00152 |
| %RSD | .06081 | .19150 | .27925 | 21.121 | 1328.6 | .68451 | .68451 | .67932 | .11721 | 1.2717 |
| #1 | 4.7095 | 3.6801 | 4.8364 | .01198 | -.00087 | 3.0487 | 6.5241 | .07938 | .91031 | .12083 |
| #2 | 4.7054 | 3.6901 | 4.8173 | .00887 | .00070 | 3.0783 | 6.5876 | .08015 | .91182 | .11868 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6208** | **-.00169** | F **-.44070** | **.23836** | W **10.117** | **.11408** |
| Stddev | .0021 | .00030 | .02149 | .00005 | .003 | .00003 |
| %RSD | .08088 | 17.710 | 4.8758 | .02285 | .02875 | .02732 |
| #1 | 2.6193 | -.00190 | -.42551 | .23840 | 10.119 | .11406 |
| #2 | 2.6223 | -.00148 | -.45590 | .23832 | 10.115 | .11411 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Warn | Chk Pass |
| High Limit | | | 50.000 | | 10.000 | |
| Low Limit | | | -.10000 | | -.00500 | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10283.** | **125440.** | **10928.** |
| Stddev | 30. | 570. | 90. |
| %RSD | .28942 | .45441 | .82562 |
| #1 | 10304. | 125850. | 10992. |
| #2 | 10262. | 125040. | 10864. |

Sample Name: 280-45438-a-8-a  Acquired: 8/16/2013 5:22:21  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00122** | **64.309** | **.05504** | **.05814** | W **10.637** | **.00581** | **.00163** | **42.510** | **.01261** | **.03611** |
| Stddev | .00020 | .200 | .00046 | .00036 | .035 | .00002 | .00177 | .230 | .00004 | .00015 |
| %RSD | 16.087 | .31153 | .83170 | .61113 | .33230 | .30669 | 108.45 | .54217 | .28403 | .40533 |
| #1 | .00136 | 64.167 | .05471 | .05789 | 10.612 | .00579 | .00038 | 42.347 | .01258 | .03621 |
| #2 | .00109 | 64.450 | .05536 | .05839 | 10.662 | .00582 | .00288 | 42.673 | .01263 | .03601 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | 10.000 | | | | | |
| Low Limit | | | | | -.01000 | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.29121** | **.38326** | **139.06** | **17.853** | **.06873** | **17.861** | **5.6073** | **.16262** | **1.2793** | **.10234** |
| Stddev | .00045 | .00035 | .84 | .000 | .00131 | .037 | .0015 | .00021 | .0017 | .00003 |
| %RSD | .15420 | .09261 | .60500 | .00272 | 1.9035 | .20746 | .02751 | .13190 | .12968 | .02491 |
| #1 | .29152 | .38351 | 138.46 | 17.852 | .06966 | 17.835 | 5.6084 | .16247 | 1.2805 | .10232 |
| #2 | .29089 | .38301 | 139.65 | 17.853 | .06781 | 17.887 | 5.6063 | .16278 | 1.2782 | .10236 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **6.6622** | **2.2025** | **5.1020** | **-.00236** | **.00236** | **1.9679** | **4.2113** | **.06114** | **.65211** | **.07377** |
| Stddev | .0038 | .0019 | .0062 | .00069 | .00144 | .0293 | .0628 | .00028 | .00274 | .00188 |
| %RSD | .05644 | .08613 | .12086 | 29.213 | 60.960 | 1.4906 | 1.4906 | .45945 | .41995 | 2.5465 |
| #1 | 6.6596 | 2.2039 | 5.1064 | -.00285 | .00338 | 1.9472 | 4.1669 | .06134 | .65017 | .07509 |
| #2 | 6.6649 | 2.2012 | 5.0977 | -.00187 | .00135 | 1.9886 | 4.2557 | .06094 | .65404 | .07244 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3441** | **.00013** | F **-.43699** | **.19952** | **6.4166** | **.07181** |
| Stddev | .0007 | .00044 | .04113 | .00111 | .0020 | .00063 |
| %RSD | .02903 | 348.80 | 9.4133 | .55623 | .03060 | .87780 |
| #1 | 2.3436 | .00043 | -.46607 | .20030 | 6.4180 | .07136 |
| #2 | 2.3446 | -.00018 | -.40790 | .19873 | 6.4152 | .07225 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10485.** | **128200.** | **11151.** |
| Stddev | 23. | 343. | 11. |
| %RSD | .21868 | .26763 | .10088 |
| #1 | 10501. | 128440. | 11143. |
| #2 | 10469. | 127960. | 11159. |

Sample Name: 280-45438-a-9-a  Acquired: 8/16/2013 5:24:43  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00135** | **108.18** | **.07160** | **.05550** | **2.9038** | **.00455** | **.00084** | **70.922** | **.02004** | **.06028** |
| Stddev | .00035 | .06 | .00204 | .00090 | .0052 | .00003 | .00049 | .084 | .00002 | .00002 |
| %RSD | 25.723 | .05365 | 2.8541 | 1.6291 | .17965 | .65357 | 58.484 | .11834 | .08144 | .03961 |
| #1 | .00111 | 108.14 | .07304 | .05614 | 2.9001 | .00452 | .00118 | 70.862 | .02003 | .06026 |
| #2 | .00160 | 108.22 | .07015 | .05486 | 2.9075 | .00457 | .00049 | 70.981 | .02005 | .06029 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.12389** | **.48733** | **177.33** | **19.154** | **.08545** | **21.685** | **4.1137** | **.01233** | **1.6356** | **.08795** |
| Stddev | .00008 | .00175 | .87 | .001 | .00029 | .013 | .0168 | .00002 | .0000 | .00016 |
| %RSD | .06699 | .35809 | .49114 | .00536 | .34096 | .05787 | .40787 | .13360 | .00193 | .17635 |
| #1 | .12383 | .48857 | 176.71 | 19.154 | .08524 | 21.676 | 4.1255 | .01234 | 1.6357 | .08806 |
| #2 | .12395 | .48610 | 177.95 | 19.155 | .08565 | 21.693 | 4.1018 | .01232 | 1.6356 | .08784 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **10.245** | **1.7650** | **2.8297** | **.00201** | **.00184** | **2.3131** | **4.9501** | **.05264** | **2.4846** | **.05234** |
| Stddev | .000 | .0004 | .0018 | .00422 | .00029 | .0101 | .0216 | .00059 | .0003 | .00284 |
| %RSD | .00263 | .02186 | .06328 | 210.58 | 15.790 | .43736 | .43736 | 1.1247 | .01280 | 5.4167 |
| #1 | 10.245 | 1.7652 | 2.8284 | .00499 | .00205 | 2.3060 | 4.9348 | .05306 | 2.4849 | .05435 |
| #2 | 10.245 | 1.7647 | 2.8310 | -.00098 | .00163 | 2.3203 | 4.9654 | .05222 | 2.4844 | .05034 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.3575** | **-.00758** | W **-.07077** | **1.7343** | **2.5075** | **.13125** |
| Stddev | .0018 | .00005 | .00130 | .0029 | .0020 | .00061 |
| %RSD | .07465 | .68049 | 1.8324 | .16776 | .07927 | .46786 |
| #1 | 2.3587 | -.00755 | -.07169 | 1.7364 | 2.5061 | .13169 |
| #2 | 2.3562 | -.00762 | -.06985 | 1.7323 | 2.5089 | .13082 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 45.000 | | | |
| Low Limit | | | -.05000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10306.** | **125070.** | **11029.** |
| Stddev | 13. | 73. | 5. |
| %RSD | .12546 | .05856 | .04511 |
| #1 | 10315. | 125010. | 11033. |
| #2 | 10296. | 125120. | 11026. |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 5:26:59 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00050** | **49.496** | **.00196** | **.00255** | **.00104** | **.00003** | **1.0401** | **-.00676** | **.00018** | **.00011** | **-.00013** | **.00249** | **49.539** |
| Stddev | .00036 | .142 | .00303 | .00071 | .00016 | .00008 | .0016 | .00004 | .00012 | .00006 | .00008 | .00037 | .255 |
| %RSD | 71.427 | .28740 | 154.94 | 27.785 | 15.786 | 307.10 | .15448 | .52791 | 67.531 | 54.616 | 62.138 | 14.811 | .51536 |
| #1 | .00025 | 49.395 | .00410 | .00205 | .00115 | .00009 | 1.0412 | -.00679 | .00026 | .00007 | -.00007 | .00222 | 49.359 |
| #2 | .00075 | 49.597 | -.00019 | .00306 | .00092 | -.00003 | 1.0389 | -.00674 | .00009 | .00015 | -.00019 | .00275 | 49.720 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.11495** | **.00122** | **-.00029** | **.00017** | **-.00006** | **254.90** | **.00090** | **.00297** | **.00033** | **5.1268** | **-.00050** | **-.00281** | **.00304** |
| Stddev | .00702 | .00359 | .00073 | .00005 | .00011 | .13 | .00013 | .00135 | .00043 | .0045 | .00286 | .00115 | .00032 |
| %RSD | 6.1081 | 293.98 | 252.24 | 31.353 | 183.74 | .05182 | 14.017 | 45.645 | 129.92 | .08833 | 575.78 | 40.815 | 10.660 |
| #1 | .10998 | .00376 | -.00080 | .00020 | .00002 | 254.99 | .00099 | .00392 | .00003 | 5.1300 | .00153 | -.00200 | .00327 |
| #2 | .11991 | -.00132 | .00023 | .00013 | -.00013 | 254.81 | .00081 | .00201 | .00063 | 5.1236 | -.00252 | -.00362 | .00282 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00652** | **-.00080** | **.00061** | **4.8717** | **.00053** | **.00030** | **10.267** | **.00065** | **.00055** | **.02385** |
| Stddev | .00069 | .00001 | .00000 | .0021 | .00070 | .00069 | .016 | .00003 | .00043 | .00430 |
| %RSD | 10.660 | 1.5430 | .67163 | .04205 | 131.72 | 228.36 | .15364 | 4.9669 | 78.723 | 18.022 |
| #1 | .00701 | -.00080 | .00061 | 4.8731 | .00004 | -.00019 | 10.278 | .00063 | .00024 | .02081 |
| #2 | .00602 | -.00081 | .00061 | 4.8702 | .00103 | .00079 | 10.256 | .00067 | .00085 | .02689 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **8971.4** | **110340.** | **9404.7** |
| Stddev | 18.4 | 433. | 2.9 |
| %RSD | .20510 | .39202 | .03128 |
| #1 | 8958.4 | 110040. | 9402.6 |
| #2 | 8984.4 | 110650. | 9406.7 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 5:29:19 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49977** | **.51320** | **1.0066** | **.51442** | **.50300** | **.49500** | **.00433** | **5.0057** | **.51396** | **.51128** | **.50222** | **.50784** | **2.5247** |
| Stddev | .00158 | .00015 | .0024 | .00084 | .00118 | .00051 | .00012 | .0070 | .00005 | .00019 | .00056 | .00129 | .0204 |
| %RSD | .31595 | .03005 | .23598 | .16366 | .23473 | .10202 | 2.8859 | .13952 | .00898 | .03755 | .11188 | .25331 | .80714 |
| #1 | .49866 | .51309 | 1.0082 | .51383 | .50383 | .49464 | .00424 | 5.0106 | .51393 | .51142 | .50183 | .50693 | 2.5103 |
| #2 | .50089 | .51331 | 1.0049 | .51502 | .50216 | .49536 | .00442 | 5.0007 | .51400 | .51115 | .50262 | .50875 | 2.5391 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.871** | **.95976** | **19.244** | **.49620** | **.50311** | **5.1272** | **.50884** | **1.0178** | **1.0198** | **.00044** | **1.0380** | **1.0243** | **4.9150** |
| Stddev | .082 | .00133 | .027 | .00008 | .00001 | .0065 | .00086 | .0018 | .0007 | .00090 | .0040 | .0043 | .0441 |
| %RSD | .16453 | .13812 | .14218 | .01571 | .00211 | .12576 | .16909 | .17363 | .06679 | 202.91 | .38492 | .41807 | .89680 |
| #1 | 49.813 | .95882 | 19.263 | .49615 | .50311 | 5.1318 | .50823 | 1.0166 | 1.0203 | .00108 | 1.0352 | 1.0212 | 4.8838 |
| #2 | 49.929 | .96070 | 19.225 | .49626 | .50312 | 5.1227 | .50945 | 1.0191 | 1.0193 | -.00019 | 1.0409 | 1.0273 | 4.9462 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.518** | **1.0097** | **.50432** | **-.00327** | **.49967** | **1.0419** | **-.01921** | **.49986** | **.48168** | **.50549** |
| Stddev | .094 | .0075 | .00032 | .00052 | .00050 | .0047 | .00073 | .00130 | .00238 | .00692 |
| %RSD | .89680 | .73783 | .06261 | 15.826 | .10060 | .45321 | 3.8033 | .25962 | .49399 | 1.3691 |
| #1 | 10.451 | 1.0045 | .50409 | -.00290 | .49931 | 1.0386 | -.01869 | .50078 | .48337 | .50060 |
| #2 | 10.585 | 1.0150 | .50454 | -.00363 | .50002 | 1.0452 | -.01973 | .49894 | .48000 | .51039 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9202.6** | **113960.** | **9529.2** |
| Stddev | 32.9 | 469. | 16.9 |
| %RSD | .35729 | .41188 | .17695 |
| #1 | 9225.9 | 113630. | 9517.2 |
| #2 | 9179.4 | 114290. | 9541.1 |

Sample Name: CCB  Acquired: 8/16/2013 5:31:26  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00045** | **.00110** | **.00134** | **.00116** | **-.00004** | **.00001** | **.00509** | **-.00206** | **.00022** | **.00001** | **-.00005** | **-.00032** |
| Stddev | .00051 | .00007 | .00153 | .00052 | .00022 | .00013 | .00087 | .00155 | .00005 | .00005 | .00000 | .00056 |
| %RSD | 113.86 | 6.3010 | 114.12 | 44.660 | 573.83 | 889.39 | 17.174 | 74.939 | 23.647 | 502.11 | 6.0966 | 174.29 |
| #1 | .00009 | .00105 | .00026 | .00080 | .00012 | .00010 | .00448 | -.00097 | .00026 | .00005 | -.00005 | .00008 |
| #2 | .00081 | .00115 | .00242 | .00153 | -.00019 | -.00008 | .00571 | -.00316 | .00019 | -.00003 | -.00005 | -.00072 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00148** | **.08187** | **.00260** | **-.00014** | **.00013** | **.00052** | **.08971** | **.00040** | **.00048** | **-.00083** | **.00157** | W **.00496** |
| Stddev | .00052 | .00457 | .00167 | .00104 | .00006 | .00026 | .00747 | .00011 | .00090 | .00061 | .00047 | .00051 |
| %RSD | 35.341 | 5.5824 | 64.184 | 739.15 | 45.076 | 49.241 | 8.3230 | 26.810 | 185.79 | 72.583 | 30.194 | 10.249 |
| #1 | .00185 | .08510 | .00378 | .00059 | .00009 | .00034 | .08443 | .00032 | .00112 | -.00041 | .00191 | .00460 |
| #2 | .00111 | .07864 | .00142 | -.00088 | .00017 | .00070 | .09499 | .00047 | -.00015 | -.00126 | .00124 | .00532 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00314 |
| Low Limit | | | | | | | | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00177** | **.00653** | **.01398** | **-.00065** | **.00013** | **.00170** | **.00045** | **.00031** | F **-.05723** | **-.00049** | **.00113** | F **.00628** |
| Stddev | .00186 | .00027 | .00059 | .00057 | .00001 | .00115 | .00009 | .00091 | .01193 | .00002 | .00013 | .00157 |
| %RSD | 104.92 | 4.1898 | 4.1898 | 87.751 | 6.1463 | 67.504 | 19.813 | 298.33 | 20.839 | 4.0433 | 11.930 | 24.950 |
| #1 | .00046 | .00634 | .01357 | -.00105 | .00013 | .00089 | .00039 | -.00034 | -.04880 | -.00048 | .00103 | .00739 |
| #2 | .00308 | .00673 | .01440 | -.00025 | .00014 | .00251 | .00051 | .00095 | -.06567 | -.00051 | .00122 | .00517 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| High Limit | | | | | | | | | .05000 | | | .00476 |
| Low Limit | | | | | | | | | -.05000 | | | -.00476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9285.6** | **115660.** | **9491.8** |
| Stddev | 3.1 | 28. | 69.5 |
| %RSD | .03300 | .02419 | .73199 |
| #1 | 9287.7 | 115640. | 9540.9 |
| #2 | 9283.4 | 115680. | 9442.6 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 5:33:42 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01037** | **.10576** | **.01541** | **.10041** | **.01053** | **.00105** | **.11858** | **.20128** | **.00531** | **.01070** | **.01014** | **.01493** | **.10195** |
| Stddev | .00013 | .00050 | .00165 | .00039 | .00024 | .00001 | .00021 | .00621 | .00006 | .00022 | .00012 | .00036 | .00139 |
| %RSD | 1.2615 | .46995 | 10.710 | .38680 | 2.3122 | 1.1242 | .17745 | 3.0861 | 1.2166 | 2.0827 | 1.2075 | 2.4281 | 1.3661 |
| #1 | .01028 | .10611 | .01658 | .10068 | .01036 | .00105 | .11872 | .19689 | .00536 | .01086 | .01006 | .01519 | .10294 |
| #2 | .01046 | .10541 | .01424 | .10013 | .01070 | .00104 | .11843 | .20567 | .00526 | .01054 | .01023 | .01468 | .10097 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.1128** | **.01008** | **.20184** | **.01015** | **.01929** | **1.0996** | **.04155** | **2.9498** | **.00819** | **-.00153** | F **.00637** | **.01803** | **.48675** |
| Stddev | .0479 | .00082 | .00079 | .00002 | .00028 | .0066 | .00053 | .0185 | .00005 | .00312 | .00033 | .00063 | .01087 |
| %RSD | 1.5382 | 8.1412 | .38905 | .22192 | 1.4637 | .60292 | 1.2767 | .62853 | .63377 | 203.73 | 5.2026 | 3.4827 | 2.2334 |
| #1 | 3.0789 | .01066 | .20240 | .01013 | .01949 | 1.1043 | .04192 | 2.9629 | .00823 | -.00374 | .00613 | .01759 | .47907 |
| #2 | 3.1466 | .00950 | .20129 | .01017 | .01909 | 1.0949 | .04117 | 2.9367 | .00815 | .00067 | .00660 | .01848 | .49444 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0417** | **.09852** | **.01015** | **.01485** | **.01004** | **.01728** | F **.01399** | **.00948** | **.02056** | F **.01955** |
| Stddev | .0233 | .00084 | .00006 | .00033 | .00002 | .00152 | .02988 | .00013 | .00002 | .00307 |
| %RSD | 2.2334 | .85634 | .58538 | 2.1977 | .24721 | 8.7915 | 213.54 | 1.3994 | .07317 | 15.727 |
| #1 | 1.0252 | .09912 | .01019 | .01508 | .01003 | .01835 | -.00714 | .00938 | .02057 | .02173 |
| #2 | 1.0581 | .09793 | .01011 | .01462 | .01006 | .01620 | .03512 | .00957 | .02055 | .01738 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Fail |
| Value | | | | | | | .06000 | | | .01500 |
| Range | | | | | | | -30.000% | | | 30.000% |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9433.0** | **117480.** | **9648.5** |
| Stddev | 3.0 | 779. | 18.0 |
| %RSD | .03191 | .66299 | .18653 |
| #1 | 9430.8 | 118030. | 9661.2 |
| #2 | 9435.1 | 116930. | 9635.7 |

Sample Name: 280-45438-a-10-a  Acquired: 8/16/2013 5:35:58  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00377** | **66.617** | **.05480** | **.14270** | **1.8904** | **.00375** | **.00429** | **39.992** | **.17116** | **.04945** |
| Stddev | .00058 | .219 | .00137 | .00196 | .0024 | .00003 | .00109 | .080 | .00005 | .00018 |
| %RSD | 15.402 | .32872 | 2.4976 | 1.3716 | .12413 | .92227 | 25.322 | .20108 | .02731 | .36606 |
| #1 | .00336 | 66.462 | .05384 | .14408 | 1.8921 | .00378 | .00506 | 39.935 | .17112 | .04958 |
| #2 | .00418 | 66.772 | .05577 | .14131 | 1.8888 | .00373 | .00352 | 40.049 | .17119 | .04932 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.28434** | **2.2628** | **210.84** | **15.901** | **.05812** | **19.063** | **2.6890** | **.23353** | **2.2323** | **.28236** |
| Stddev | .00057 | .0008 | .04 | .038 | .00298 | .067 | .0264 | .00086 | .0039 | .00125 |
| %RSD | .19996 | .03486 | .01684 | .23996 | 5.1239 | .34940 | .98192 | .37031 | .17262 | .44370 |
| #1 | .28393 | 2.2622 | 210.86 | 15.874 | .05601 | 19.016 | 2.6704 | .23414 | 2.2351 | .28324 |
| #2 | .28474 | 2.2634 | 210.81 | 15.928 | .06022 | 19.110 | 2.7077 | .23292 | 2.2296 | .28147 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.9149** | W **13.182** | **7.0153** | **.01736** | **.00400** | **2.3636** | **5.0581** | **.16987** | **.66133** | **.05020** |
| Stddev | .0057 | .008 | .0441 | .00049 | .00176 | .0015 | .0032 | .00038 | .00137 | .00143 |
| %RSD | .09671 | .05982 | .62910 | 2.7971 | 43.995 | .06429 | .06429 | .22233 | .20729 | 2.8501 |
| #1 | 5.9109 | 13.188 | 7.0465 | .01702 | .00276 | 2.3625 | 5.0558 | .17013 | .66036 | .05121 |
| #2 | 5.9190 | 13.177 | 6.9841 | .01771 | .00525 | 2.3647 | 5.0604 | .16960 | .66230 | .04919 |
| Check ? | Chk Warn | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | 10.000 | | | | | | | | |
| Low Limit | -1.0000 | -.00300 | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.1765** | **-.00160** | F **-.31310** | **.20256** | **7.9524** | **.04402** |
| Stddev | .0043 | .00049 | .01664 | .00038 | .0191 | .00138 |
| %RSD | .19743 | 30.245 | 5.3133 | .18762 | .24066 | 3.1338 |
| #1 | 2.1734 | -.00126 | -.32486 | .20229 | 7.9388 | .04304 |
| #2 | 2.1795 | -.00195 | -.30134 | .20283 | 7.9659 | .04500 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10007.** | **123520.** | **10730.** |
| Stddev | 21. | 614. | 37. |
| %RSD | .21354 | .49732 | .34772 |
| #1 | 10022. | 123960. | 10756. |
| #2 | 9991.7 | 123090. | 10703. |

Sample Name: 280-45438-a-11-a  Acquired: 8/16/2013 5:38:19  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01197** | **36.199** | **.03557** | **.05770** | **1.1036** | **.00228** | **.00809** | **37.541** | **.03724** | **.03161** |
| Stddev | .00020 | .082 | .00125 | .00042 | .0032 | .00005 | .00036 | .005 | .00012 | .00017 |
| %RSD | 1.6542 | .22677 | 3.5014 | .72940 | .28983 | 2.2630 | 4.4076 | .01364 | .31773 | .55059 |
| #1 | .01211 | 36.257 | .03469 | .05799 | 1.1058 | .00224 | .00835 | 37.538 | .03716 | .03174 |
| #2 | .01183 | 36.141 | .03645 | .05740 | 1.1013 | .00231 | .00784 | 37.545 | .03733 | .03149 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.20311** | **.54006** | **112.65** | **10.814** | **.03736** | **12.986** | **2.1733** | **.03389** | **1.5708** | **.12027** |
| Stddev | .00073 | .00085 | .22 | .050 | .00395 | .023 | .0131 | .00011 | .0066 | .00037 |
| %RSD | .35892 | .15770 | .19711 | .46313 | 10.563 | .17517 | .60064 | .33242 | .41893 | .30427 |
| #1 | .20362 | .53945 | 112.81 | 10.779 | .03457 | 12.970 | 2.1641 | .03397 | 1.5754 | .12053 |
| #2 | .20259 | .54066 | 112.49 | 10.849 | .04015 | 13.003 | 2.1826 | .03381 | 1.5661 | .12001 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.3264** | **4.6252** | **7.7600** | **.00475** | **.00163** | **2.0945** | **4.4822** | **.07040** | **.43645** | **.05799** |
| Stddev | .0056 | .0005 | .0185 | .00321 | .00073 | .0084 | .0181 | .00033 | .00007 | .00126 |
| %RSD | .12967 | .01153 | .23830 | 67.645 | 44.930 | .40295 | .40295 | .47548 | .01581 | 2.1674 |
| #1 | 4.3224 | 4.6256 | 7.7731 | .00248 | .00214 | 2.1004 | 4.4949 | .07063 | .43650 | .05710 |
| #2 | 4.3303 | 4.6248 | 7.7469 | .00702 | .00111 | 2.0885 | 4.4694 | .07016 | .43640 | .05888 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.9288** | **.00103** | F **-.28366** | **.16022** | **2.2776** | **.03867** |
| Stddev | .0072 | .00094 | .01192 | .00041 | .0017 | .00030 |
| %RSD | .37552 | 91.405 | 4.2023 | .25567 | .07426 | .77579 |
| #1 | 1.9236 | .00169 | -.27523 | .16051 | 2.2764 | .03888 |
| #2 | 1.9339 | .00036 | -.29209 | .15993 | 2.2788 | .03845 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9968.5** | **123110.** | **10524.** |
| Stddev | 21.5 | 139. | 56. |
| %RSD | .21521 | .11308 | .53583 |
| #1 | 9983.7 | 123010. | 10484. |
| #2 | 9953.3 | 123210. | 10563. |

Sample Name: 280-45438-a-12-a  Acquired: 8/16/2013 5:40:37  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00412** | **64.340** | **.07871** | **.06392** | **1.2706** | **.00394** | **.00533** | **34.879** | **.51128** | **.03832** |
| Stddev | .00007 | .288 | .00287 | .00085 | .0047 | .00005 | .00085 | .140 | .00032 | .00035 |
| %RSD | 1.8084 | .44686 | 3.6470 | 1.3282 | .37025 | 1.3005 | 15.962 | .40096 | .06239 | .90997 |
| #1 | .00417 | 64.137 | .08074 | .06452 | 1.2673 | .00390 | .00593 | 34.780 | .51151 | .03857 |
| #2 | .00406 | 64.544 | .07668 | .06332 | 1.2739 | .00397 | .00473 | 34.978 | .51106 | .03807 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.23676** | **.91935** | **147.65** | **17.140** | **.07635** | **21.125** | **2.8763** | **.06933** | **1.2021** | **.14098** |
| Stddev | .00146 | .00125 | .76 | .064 | .00389 | .092 | .0136 | .00054 | .0220 | .00120 |
| %RSD | .61655 | .13546 | .51407 | .37347 | 5.0933 | .43367 | .47429 | .78481 | 1.8337 | .85258 |
| #1 | .23779 | .92023 | 147.11 | 17.094 | .07360 | 21.189 | 2.8859 | .06971 | 1.1865 | .14183 |
| #2 | .23573 | .91847 | 148.18 | 17.185 | .07910 | 21.060 | 2.8666 | .06895 | 1.2176 | .14013 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.1918** | **6.8943** | **3.9150** | **.01032** | **.00458** | **2.2155** | **4.7411** | **.07638** | **.41151** | **.07341** |
| Stddev | .0289 | .0020 | .0257 | .00301 | .00048 | .0273 | .0584 | .00046 | .00197 | .00004 |
| %RSD | .68832 | .02954 | .65601 | 29.184 | 10.421 | 1.2323 | 1.2323 | .60456 | .47821 | .04982 |
| #1 | 4.2122 | 6.8957 | 3.9331 | .00819 | .00424 | 2.1962 | 4.6998 | .07671 | .41012 | .07344 |
| #2 | 4.1714 | 6.8928 | 3.8968 | .01245 | .00492 | 2.2348 | 4.7824 | .07606 | .41290 | .07338 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.6350** | **-.00021** | F **-.33923** | **.24395** | **4.1379** | **.04889** |
| Stddev | .0034 | .00084 | .07393 | .00097 | .0098 | .00010 |
| %RSD | .12703 | 394.28 | 21.794 | .39927 | .23683 | .20787 |
| #1 | 2.6373 | .00038 | -.28695 | .24464 | 4.1449 | .04896 |
| #2 | 2.6326 | -.00081 | -.39150 | .24326 | 4.1310 | .04882 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10090.** | **123890.** | **10671.** |
| Stddev | 25. | 443. | 50. |
| %RSD | .24954 | .35732 | .47118 |
| #1 | 10072. | 123570. | 10706. |
| #2 | 10107. | 124200. | 10635. |

Sample Name: 280-45438-a-13-a  Acquired: 8/16/2013 5:42:52  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00326** | **86.090** | **.05977** | **.92949** | **3.2964** | **.00642** | **.00415** | **138.20** | **.01869** | **.02576** |
| Stddev | .00002 | .644 | .00299 | .00294 | .0244 | .00012 | .00103 | .98 | .00006 | .00010 |
| %RSD | .71863 | .74805 | 4.9950 | .31600 | .74007 | 1.8385 | 24.848 | .71018 | .31752 | .38469 |
| #1 | .00328 | 85.634 | .05766 | .92741 | 3.2791 | .00633 | .00488 | 137.50 | .01865 | .02569 |
| #2 | .00324 | 86.545 | .06188 | .93157 | 3.3136 | .00650 | .00342 | 138.89 | .01873 | .02583 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07367** | **.48724** | **97.601** | **9.6018** | **.04857** | **20.847** | **2.8043** | **.00702** | **33.315** | **.04965** |
| Stddev | .00039 | .00036 | .820 | .0827 | .00215 | .029 | .0107 | .00013 | .350 | .00006 |
| %RSD | .53544 | .07353 | .83969 | .86130 | 4.4229 | .13865 | .38098 | 1.7989 | 1.0519 | .12524 |
| #1 | .07339 | .48698 | 97.021 | 9.5433 | .04705 | 20.827 | 2.8118 | .00693 | 33.067 | .04961 |
| #2 | .07395 | .48749 | 98.180 | 9.6603 | .05009 | 20.868 | 2.7967 | .00711 | 33.563 | .04969 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **5.1943** | **2.1111** | **4.7749** | **.01152** | **.00123** | **2.4894** | **5.3273** | **.13710** | **2.8820** | **.04821** |
| Stddev | .0157 | .0029 | .0183 | .00204 | .00252 | .0366 | .0783 | .00036 | .0068 | .00072 |
| %RSD | .30306 | .13516 | .38396 | 17.752 | 204.85 | 1.4692 | 1.4692 | .26530 | .23543 | 1.4914 |
| #1 | 5.2054 | 2.1132 | 4.7620 | .01296 | -.00055 | 2.4636 | 5.2720 | .13736 | 2.8868 | .04770 |
| #2 | 5.1831 | 2.1091 | 4.7879 | .01007 | .00302 | 2.5153 | 5.3827 | .13684 | 2.8772 | .04872 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7854** | **-.00049** | F **-.32642** | **.21957** | **4.4491** | **.14324** |
| Stddev | .0010 | .00065 | .02632 | .00001 | .0064 | .00018 |
| %RSD | .03649 | 132.03 | 8.0625 | .00589 | .14426 | .12374 |
| #1 | 2.7847 | -.00003 | -.30781 | .21956 | 4.4445 | .14336 |
| #2 | 2.7861 | -.00095 | -.34503 | .21958 | 4.4536 | .14311 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10001.** | **121340.** | **10738.** |
| Stddev | 29. | 99. | 107. |
| %RSD | .28631 | .08145 | .99228 |
| #1 | 10021. | 121270. | 10814. |
| #2 | 9980.8 | 121410. | 10663. |

Sample Name: 280-45438-a-14-a  Acquired: 8/16/2013 5:45:10  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00148** | **82.442** | **.04351** | **.01830** | **1.4422** | **.00380** | **.00063** | **30.213** | **.00676** | **.04649** |
| Stddev | .00008 | .402 | .00130 | .00068 | .0073 | .00001 | .00006 | .088 | .00008 | .00011 |
| %RSD | 5.1720 | .48771 | 2.9852 | 3.7373 | .50765 | .33078 | 9.8619 | .29289 | 1.1328 | .24401 |
| #1 | -.00154 | 82.158 | .04259 | .01879 | 1.4370 | .00381 | .00058 | 30.150 | .00670 | .04641 |
| #2 | -.00143 | 82.726 | .04443 | .01782 | 1.4474 | .00379 | .00067 | 30.275 | .00681 | .04657 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.10301** | **.20066** | **123.44** | **17.029** | **.06179** | **19.175** | **2.6965** | **.01152** | **1.0905** | **.07398** |
| Stddev | .00033 | .00085 | .34 | .066 | .00259 | .042 | .0428 | .00014 | .0132 | .00028 |
| %RSD | .31774 | .42575 | .27563 | .38779 | 4.1978 | .22140 | 1.5875 | 1.2107 | 1.2097 | .38430 |
| #1 | .10278 | .20006 | 123.20 | 16.982 | .05996 | 19.145 | 2.7267 | .01142 | 1.0812 | .07378 |
| #2 | .10324 | .20127 | 123.68 | 17.076 | .06363 | 19.205 | 2.6662 | .01162 | 1.0998 | .07418 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **3.6431** | **.35418** | **.51381** | **-.00144** | **.00042** | **2.5278** | **5.4094** | **.01341** | **.93383** | **.09778** |
| Stddev | .0009 | .00074 | .00217 | .00191 | .00164 | .0460 | .0984 | .00040 | .00392 | .00124 |
| %RSD | .02576 | .20758 | .42324 | 132.73 | 385.63 | 1.8199 | 1.8199 | 2.9685 | .41938 | 1.2705 |
| #1 | 3.6425 | .35366 | .51227 | -.00009 | .00158 | 2.4952 | 5.3398 | .01369 | .93106 | .09690 |
| #2 | 3.6438 | .35470 | .51535 | -.00278 | -.00073 | 2.5603 | 5.4790 | .01312 | .93660 | .09866 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.7008** | **-.00183** | F **-.41774** | **.22547** | **.59056** | **.10813** |
| Stddev | .0031 | .00062 | .00930 | .00070 | .00142 | .00086 |
| %RSD | .18419 | 33.962 | 2.2251 | .31104 | .23971 | .79959 |
| #1 | 1.6985 | -.00139 | -.42431 | .22497 | .59156 | .10751 |
| #2 | 1.7030 | -.00227 | -.41116 | .22596 | .58956 | .10874 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10056.** | **122950.** | **10564.** |
| Stddev | 10. | 25. | 66. |
| %RSD | .10311 | .02035 | .62356 |
| #1 | 10063. | 122960. | 10518. |
| #2 | 10048. | 122930. | 10611. |

Sample Name: 280-45447-a-2-a  Acquired: 8/16/2013 5:47:28  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00069** | **130.70** | **.02582** | **.01866** | **2.6368** | **.00821** | **-.00054** | **60.990** | **.00271** | **.08229** |
| Stddev | .00012 | .18 | .00149 | .00003 | .0025 | .00002 | .00079 | .136 | .00013 | .00028 |
| %RSD | 16.615 | .13542 | 5.7526 | .16040 | .09398 | .23764 | 146.28 | .22292 | 4.6473 | .33828 |
| #1 | -.00061 | 130.58 | .02477 | .01864 | 2.6385 | .00823 | .00002 | 60.894 | .00262 | .08210 |
| #2 | -.00078 | 130.83 | .02687 | .01868 | 2.6350 | .00820 | -.00109 | 61.086 | .00280 | .08249 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 818.326 { 41} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.18321** | **.27287** | **181.64** | **20.400** | **.11954** | **31.131** | **2.5953** | **.00960** | **17.166** | **.13266** |
| Stddev | .00004 | .00015 | .27 | .019 | .00126 | .075 | .0173 | .00012 | .016 | .00015 |
| %RSD | .02199 | .05635 | .15131 | .09485 | 1.0579 | .24059 | .66532 | 1.2138 | .09575 | .11525 |
| #1 | .18318 | .27298 | 181.45 | 20.386 | .11865 | 31.184 | 2.6075 | .00952 | 17.154 | .13256 |
| #2 | .18324 | .27276 | 181.83 | 20.413 | .12044 | 31.078 | 2.5831 | .00969 | 17.178 | .13277 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **2.6081** | **.11188** | **4.6001** | **-.00156** | **.00347** | **3.0106** | **6.4426** | **.01010** | **.81743** | **.04782** |
| Stddev | .0014 | .00081 | .0035 | .00112 | .00527 | .0017 | .0036 | .00050 | .00310 | .00257 |
| %RSD | .05530 | .72356 | .07583 | 71.400 | 151.55 | .05616 | .05616 | 4.9801 | .37870 | 5.3708 |
| #1 | 2.6071 | .11131 | 4.6026 | -.00235 | -.00025 | 3.0118 | 6.4452 | .00974 | .81524 | .04963 |
| #2 | 2.6092 | .11245 | 4.5976 | -.00077 | .00720 | 3.0094 | 6.4401 | .01045 | .81962 | .04600 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.76097** | **-.00146** | F **-.31572** | **.27424** | **.54440** | **.04843** |
| Stddev | .00021 | .00058 | .02323 | .00034 | .00173 | .00009 |
| %RSD | .02762 | 39.965 | 7.3564 | .12385 | .31721 | .17659 |
| #1 | .76112 | -.00105 | -.33214 | .27448 | .54318 | .04837 |
| #2 | .76083 | -.00187 | -.29929 | .27400 | .54562 | .04849 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10016.** | **121310.** | **10647.** |
| Stddev | 4. | 473. | 5. |
| %RSD | .04049 | .39008 | .04430 |
| #1 | 10013. | 120980. | 10651. |
| #2 | 10018. | 121650. | 10644. |

Sample Name: 280-45497-a-5-a  Acquired: 8/16/2013 5:49:43  Type: Unk
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment: 187269  SOIL 6010B

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 328.068 {103} | 309.271 {109} | 189.042 {478} | 208.959 {461} | 455.403 { 74} | 313.042 {108} | 223.061 {451} | 317.933 {106} | 228.802 {447} | 228.616 {447} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.00214** | **74.819** | **.03270** | **.06788** | **1.2640** | **.00412** | **-.00142** | **66.723** | **.00339** | **.03605** |
| Stddev | .00045 | .191 | .00181 | .00008 | .0037 | .00003 | .00085 | .190 | .00002 | .00031 |
| %RSD | 20.778 | .25575 | 5.5462 | .11333 | .29334 | .70945 | 60.366 | .28482 | .52493 | .86541 |
| #1 | -.00183 | 74.684 | .03398 | .06782 | 1.2614 | .00414 | -.00202 | 66.589 | .00341 | .03583 |
| #2 | -.00246 | 74.954 | .03141 | .06793 | 1.2666 | .00410 | -.00081 | 66.857 | .00338 | .03627 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | Cr2055 | Cu3247 | Fe2714 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 205.552 {464} | 324.754 {104} | 271.441 {124} | 766.490 { 44} | 670.784 { 50} | 279.079 {121}2 | 257.610 {131} | 202.030 {467} | 589.592 { 57} | 231.604 {446} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.07435** | **.09685** | **110.70** | **12.237** | **.05943** | **19.749** | **2.1811** | **.00284** | **2.6452** | **.05390** |
| Stddev | .00014 | .00041 | .05 | .018 | .00306 | .076 | .0515 | .00010 | .0054 | .00000 |
| %RSD | .18323 | .42182 | .04072 | .14983 | 5.1530 | .38687 | 2.3619 | 3.4919 | .20339 | .00021 |
| #1 | .07426 | .09714 | 110.73 | 12.224 | .05727 | 19.803 | 2.2175 | .00291 | 2.6490 | .05390 |
| #2 | .07445 | .09657 | 110.67 | 12.250 | .06160 | 19.694 | 2.1446 | .00277 | 2.6414 | .05390 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | |
| Low Limit | | | | | | | | | | |

| Elem | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 |
|---|---|---|---|---|---|---|---|---|---|---|
| Line | 178.284 {489} | 220.353 {453} | 182.034 {485} | 206.833 {463} | 196.090 {472} | 288.158 {117} | 288.158 {117}2 | 189.989 {477} | 407.771 { 83} | 283.730 {119} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | W **4.7220** | **.27173** | **1.8456** | **-.00329** | **.00051** | **2.6005** | **5.5651** | **.03018** | **1.0395** | **.08218** |
| Stddev | .0098 | .00111 | .0077 | .00020 | .00342 | .0163 | .0350 | .00052 | .0022 | .00156 |
| %RSD | .20736 | .40878 | .41933 | 5.9582 | 669.94 | .62807 | .62807 | 1.7263 | .21237 | 1.9008 |
| #1 | 4.7151 | .27095 | 1.8401 | -.00315 | -.00191 | 2.5890 | 5.5404 | .02982 | 1.0379 | .08329 |
| #2 | 4.7289 | .27252 | 1.8511 | -.00343 | .00293 | 2.6121 | 5.5898 | .03055 | 1.0410 | .08108 |
| Check ? | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | 2.0000 | | | | | | | | | |
| Low Limit | -1.0000 | | | | | | | | | |

| Elem | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|
| Line | 334.904 {101} | 190.856 {477} | 370.152 { 91} | 292.402 {115} | 206.200 {163} | 339.198 { 99} |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.7573** | **-.00060** | F **-.39575** | **.21569** | **.73246** | **.11190** |
| Stddev | .0092 | .00069 | .00729 | .00114 | .00169 | .00079 |
| %RSD | .33556 | 115.30 | 1.8411 | .52772 | .23031 | .70909 |
| #1 | 2.7638 | -.00011 | -.40090 | .21489 | .73365 | .11246 |
| #2 | 2.7507 | -.00108 | -.39060 | .21650 | .73127 | .11134 |
| Check ? | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | 50.000 | | | |
| Low Limit | | | -.10000 | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Line | 224.306 {450} | 360.073 { 94} | 377.433 { 89} |
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **10330.** | **125000.** | **10675.** |
| Stddev | . | 596. | 44. |
| %RSD | .00125 | .47703 | .41185 |
| #1 | 10330. | 124580. | 10644. |
| #2 | 10330. | 125420. | 10706. |

Sample Name: CCVH-2174668 Acquired: 8/16/2013 5:51:58 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al3092 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2714 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00055** | **49.725** | **.00301** | **.00227** | **.00067** | **-.00004** | **1.0441** | **-.00764** | **.00019** | **.00031** | **-.00007** | **.00265** | **49.693** |
| Stddev | .00063 | .067 | .00104 | .00001 | .00004 | .00011 | .0005 | .00121 | .00020 | .00016 | .00018 | .00044 | .062 |
| %RSD | 115.01 | .13406 | 34.401 | .34903 | 5.9078 | 260.65 | .04658 | 15.839 | 101.32 | 52.822 | 266.23 | 16.657 | .12477 |
| #1 | .00010 | 49.773 | .00228 | .00226 | .00070 | -.00012 | 1.0444 | -.00678 | .00033 | .00020 | .00006 | .00234 | 49.737 |
| #2 | .00099 | 49.678 | .00375 | .00227 | .00064 | .00004 | 1.0437 | -.00850 | .00005 | .00043 | -.00020 | .00296 | 49.650 |
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | None | None | None | None | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na8183 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.19199** | **.00305** | **-.00018** | **.00012** | **-.00015** | **256.73** | **.00092** | **.00289** | **.00021** | **5.1780** | **-.00203** | **-.00261** | **-.00494** |
| Stddev | .03747 | .00300 | .00084 | .00000 | .00023 | .63 | .00003 | .00062 | .00002 | .0003 | .00024 | .00084 | .00772 |
| %RSD | 19.518 | 98.344 | 472.42 | 3.4201 | 153.82 | .24408 | 2.7194 | 21.646 | 10.793 | .00544 | 11.954 | 32.017 | 156.17 |
| #1 | .16549 | .00093 | .00041 | .00012 | .00001 | 257.17 | .00090 | .00244 | .00019 | 5.1782 | -.00220 | -.00321 | .00052 |
| #2 | .21849 | .00518 | -.00077 | .00012 | -.00031 | 256.28 | .00094 | .00333 | .00022 | 5.1778 | -.00185 | -.00202 | -.01041 |
| Check ? | None | None | None | None | None | Chk Pass | None | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.01058** | **-.00064** | **.00051** | **4.8887** | **.00062** | **.00148** | **10.236** | **.00069** | **.00038** | **.02810** |
| Stddev | .01653 | .00041 | .00003 | .0175 | .00009 | .00088 | .006 | .00022 | .00024 | .00154 |
| %RSD | 156.17 | 63.421 | 6.5110 | .35770 | 14.249 | 59.501 | .06146 | 31.749 | 63.109 | 5.4707 |
| #1 | .00110 | -.00093 | .00049 | 4.8763 | .00056 | .00211 | 10.231 | .00085 | .00055 | .02702 |
| #2 | -.02227 | -.00035 | .00054 | 4.9011 | .00068 | .00086 | 10.240 | .00054 | .00021 | .02919 |
| Check ? | None | None | None | Chk Pass | None | None | Chk Pass | None | None | None |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9052.8** | **110570.** | **9546.6** |
| Stddev | 17.9 | 602. | 4.2 |
| %RSD | .19824 | .54420 | .04415 |
| #1 | 9040.1 | 110990. | 9543.6 |
| #2 | 9065.4 | 110140. | 9549.5 |

Sample Name: CCV-2200393 Acquired: 8/16/2013 5:54:17 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.49451** | **.50853** | **1.0072** | **.51267** | **.50449** | **.49373** | **.00538** | **5.0007** | **.51114** | **.50763** | **.49898** | **.50392** | **2.5310** |
| Stddev | .00074 | .00079 | .0073 | .00031 | .00023 | .00052 | .00011 | .0131 | .00063 | .00022 | .00023 | .00157 | .0186 |
| %RSD | .14906 | .15515 | .72608 | .05990 | .04599 | .10458 | 2.0436 | .26281 | .12328 | .04338 | .04676 | .31247 | .73401 |
| #1 | .49399 | .50908 | 1.0020 | .51246 | .50433 | .49336 | .00530 | 5.0099 | .51069 | .50779 | .49882 | .50281 | 2.5179 |
| #2 | .49503 | .50797 | 1.0124 | .51289 | .50466 | .49409 | .00545 | 4.9914 | .51158 | .50748 | .49915 | .50504 | 2.5441 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **49.792** | **.95491** | **19.066** | **.49090** | **.50100** | **5.1139** | **.50580** | **1.0108** | **1.0167** | **-.00117** | **1.0313** | **1.0199** | **4.9022** |
| Stddev | .030 | .00232 | .035 | .00113 | .00089 | .0120 | .00073 | .0026 | .0011 | .00147 | .0034 | .0038 | .0390 |
| %RSD | .05998 | .24259 | .18423 | .23064 | .17845 | .23435 | .14461 | .25662 | .10669 | 125.33 | .33281 | .36999 | .79624 |
| #1 | 49.771 | .95328 | 19.041 | .49009 | .50037 | 5.1224 | .50529 | 1.0127 | 1.0159 | -.00013 | 1.0289 | 1.0172 | 4.8746 |
| #2 | 49.813 | .95655 | 19.091 | .49170 | .50163 | 5.1055 | .50632 | 1.0090 | 1.0175 | -.00221 | 1.0337 | 1.0225 | 4.9298 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.491** | **1.0043** | **.50406** | **-.00356** | **.49456** | **1.0342** | **.00896** | **.49564** | **.47790** | **.50514** |
| Stddev | .084 | .0063 | .00068 | .00177 | .00078 | .0043 | .00865 | .00057 | .00112 | .00449 |
| %RSD | .79624 | .62859 | .13545 | 49.682 | .15793 | .41465 | 96.533 | .11593 | .23512 | .88850 |
| #1 | 10.432 | .99985 | .50358 | -.00231 | .49401 | 1.0311 | .01507 | .49523 | .47710 | .50197 |
| #2 | 10.550 | 1.0088 | .50455 | -.00481 | .49511 | 1.0372 | .00284 | .49605 | .47869 | .50832 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | |
| Range | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9213.5** | **115040.** | **9669.5** |
| Stddev | 2.3 | 289. | 16.8 |
| %RSD | .02495 | .25112 | .17384 |
| #1 | 9211.8 | 115240. | 9657.7 |
| #2 | 9215.1 | 114830. | 9681.4 |

Sample Name: CCB  Acquired: 8/16/2013 5:56:22  Type: QC
Method: 6500_025(v8)  Mode: CONC  Corr. Factor: 1.000000
User: kharre  Custom ID1:  Custom ID2:  Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00002** | **.00207** | **.00243** | **.00142** | **-.00028** | **.00004** | **.00678** | **-.00019** | **.00022** | **.00005** | **-.00009** | **-.00050** |
| Stddev | .00036 | .00017 | .00159 | .00025 | .00003 | .00008 | .00014 | .00041 | .00005 | .00014 | .00014 | .00028 |
| %RSD | 2319.5 | 7.9755 | 65.443 | 17.374 | 9.0964 | 235.56 | 2.0292 | 212.23 | 20.443 | 277.73 | 167.14 | 55.898 |
| #1 | -.00024 | .00196 | .00131 | .00160 | -.00029 | .00009 | .00668 | -.00049 | .00019 | -.00005 | .00002 | -.00030 |
| #2 | .00027 | .00219 | .00355 | .00125 | -.00026 | -.00002 | .00688 | .00010 | .00025 | .00015 | -.00019 | -.00070 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | | |

| Elem | Fe2599 | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00188** | **.11924** | W **.00296** | **.00096** | **.00009** | **.00075** | W **.10379** | **.00028** | **-.00083** | **-.00102** | **-.00002** | W **.00385** |
| Stddev | .00124 | .00865 | .00225 | .00352 | .00014 | .00016 | .01651 | .00001 | .00077 | .00046 | .00189 | .00098 |
| %RSD | 66.111 | 7.2570 | 75.971 | 366.53 | 163.10 | 20.977 | 15.910 | 2.6235 | 93.043 | 45.348 | 10349. | 25.552 |
| #1 | .00100 | .11312 | .00455 | .00345 | .00019 | .00064 | .09211 | .00028 | -.00138 | -.00135 | .00132 | .00315 |
| #2 | .00276 | .12536 | .00137 | -.00153 | -.00001 | .00086 | .11546 | .00027 | -.00028 | -.00069 | -.00136 | .00454 |
| Check ? | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Warn | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | .00261 | | | | .09160 | | | | | .00314 |
| Low Limit | | | -.00261 | | | | -.09160 | | | | | -.00314 |

| Elem | Se1960 | Si2881 | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.00113** | **.01478** | **.03163** | **-.00085** | **.00007** | **.00240** | **.00045** | **.00103** | **-.01776** | **-.00081** | **.00149** | W **.00387** |
| Stddev | .00180 | .01324 | .02834 | .00045 | .00015 | .00122 | .00004 | .00010 | .00546 | .00063 | .00016 | .00213 |
| %RSD | 160.37 | 89.607 | 89.607 | 52.242 | 205.19 | 50.897 | 9.8072 | 10.054 | 30.727 | 77.433 | 10.973 | 55.044 |
| #1 | -.00015 | .02414 | .05167 | -.00117 | .00018 | .00327 | .00049 | .00110 | -.02161 | -.00037 | .00137 | .00538 |
| #2 | .00240 | .00541 | .01159 | -.00054 | -.00003 | .00154 | .00042 | .00095 | -.01390 | -.00126 | .00160 | .00237 |
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Warn |
| High Limit | | | | | | | | | | | | .00238 |
| Low Limit | | | | | | | | | | | | -.00238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9265.8** | **115970.** | **9483.1** |
| Stddev | 28.3 | 819. | 90.9 |
| %RSD | .30512 | .70654 | .95844 |
| #1 | 9285.8 | 115390. | 9547.3 |
| #2 | 9245.8 | 116540. | 9418.8 |

Sample Name: CCVL2200397 Acquired: 8/16/2013 5:58:38 Type: QC
Method: 6500_025(v8) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Ag3280 | Al1670 | As1890 | B_2089 | Ba4554 | Be3130 | Bi2230 | Ca3179 | Cd2288 | Co2286 | Cr2055 | Cu3247 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.01040** | **.10650** | **.01716** | **.10066** | **.01006** | **.00098** | **.12006** | **.20125** | **.00542** | **.01048** | **.01009** | **.01440** | **.10229** |
| Stddev | .00025 | .00025 | .00139 | .00026 | .00006 | .00001 | .00012 | .00333 | .00013 | .00001 | .00002 | .00028 | .00018 |
| %RSD | 2.4013 | .23410 | 8.0755 | .25894 | .64025 | .88190 | .09745 | 1.6533 | 2.3242 | .09936 | .21323 | 1.9409 | .17931 |
| #1 | .01022 | .10667 | .01618 | .10085 | .01002 | .00098 | .12014 | .19890 | .00534 | .01047 | .01010 | .01460 | .10242 |
| #2 | .01057 | .10632 | .01814 | .10048 | .01011 | .00097 | .11998 | .20360 | .00551 | .01048 | .01007 | .01420 | .10216 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | | |
| Range | | | | | | | | | | | | | |

| Elem | K_7664 | Li6707 | Mg2790 | Mn2576 | Mo2020 | Na5895 | Ni2316 | P_1782 | Pb2203 | S_1820 | Sb2068 | Se1960 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.0574** | **.01037** | **.20084** | **.01010** | **.01937** | **1.0987** | **.04208** | **2.9590** | **.00830** | **-.00003** | F **.00631** | **.01621** | **.48207** |
| Stddev | .0301 | .00132 | .00032 | .00007 | .00006 | .0313 | .00021 | .0048 | .00065 | .00084 | .00066 | .00113 | .00149 |
| %RSD | .98552 | 12.734 | .15982 | .72004 | .30905 | 2.8460 | .49840 | .16137 | 7.8486 | 2658.7 | 10.448 | 6.9580 | .30940 |
| #1 | 3.0787 | .00944 | .20106 | .01004 | .01933 | 1.0766 | .04193 | 2.9556 | .00876 | .00056 | .00677 | .01701 | .48102 |
| #2 | 3.0361 | .01131 | .20061 | .01015 | .01942 | 1.1209 | .04223 | 2.9623 | .00783 | -.00062 | .00584 | .01542 | .48313 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Fail | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | .01000 | | |
| Range | | | | | | | | | | | -30.000% | | |

| Elem | SiO2 | Sn1899 | Sr4077 | Th2837 | Ti3349 | Tl1908 | U_3701 | V_2924 | Zn2062 | Zr3391 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.0316** | **.10013** | **.01023** | **.01410** | **.01001** | **.01723** | F **.03498** | **.00937** | **.02089** | **.01865** |
| Stddev | .0032 | .00011 | .00016 | .00014 | .00004 | .00047 | .00038 | .00007 | .00040 | .00023 |
| %RSD | .30940 | .10680 | 1.5713 | 1.0195 | .44284 | 2.7471 | 1.0971 | .78242 | 1.9387 | 1.2249 |
| #1 | 1.0294 | .10020 | .01034 | .01420 | .00998 | .01756 | .03471 | .00932 | .02060 | .01881 |
| #2 | 1.0339 | .10005 | .01011 | .01400 | .01005 | .01689 | .03525 | .00942 | .02117 | .01848 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | .06000 | | | |
| Range | | | | | | | -30.000% | | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3774 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **9441.4** | **117280.** | **9558.4** |
| Stddev | 7.6 | 1151. | 4.3 |
| %RSD | .08012 | .98123 | .04455 |
| #1 | 9446.7 | 118100. | 9555.4 |
| #2 | 9436.0 | 116470. | 9561.4 |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Batch Number: 186959  Batch Start Date: 08/14/13 13:00  Batch Analyst: Mihalcin, Jason A

Batch Method: 3050B  Batch End Date: 08/14/13 18:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | CalcMsg | InitialAmount | FinalAmount | ICP SPK 2A 00062 | ICP SPK 3A 00065 | |
|---|---|---|---|---|---|---|---|---|---|
| MB 280-186959/1 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.16 g | 100 mL | | | |
| LCS 280-186959/2 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.06 g | 100 mL | 1 mL | 1 mL | |
| 280-45026-A-1 | B255SCS0704AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.10 g | 100 mL | | | |
| 280-45026-A-2 | B255SCS0704AC | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.18 g | 100 mL | | | |
| 280-45026-A-3 | B255SCS0708AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.05 g | 100 mL | | | |
| 280-45026-A-4 | B255SCS0712AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.12 g | 100 mL | | | |
| 280-45026-A-5 | B255SCS0804AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.19 g | 100 mL | | | |
| 280-45026-A-6 | B255SCS0808AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.01 g | 100 mL | | | |
| 280-45026-A-7 | B255SCS0812AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.14 g | 100 mL | | | |
| 280-45026-A-8 | B255SCS0904AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.08 g | 100 mL | | | |
| 280-45026-A-9 | B255SCS0908AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.01 g | 100 mL | | | |
| 280-45026-A-10 | B255SCS0912AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.10 g | 100 mL | | | |
| 280-45026-A-14 | B255SCS1104AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.19 g | 100 mL | | | |
| 280-45026-A-15 | B255SCS1108AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.08 g | 100 mL | | | |
| 280-45026-A-16 | B255SCS1112AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.01 g | 100 mL | | | |
| 280-45026-A-17 | B255SCS1116AA | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.16 g | 100 mL | | | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Batch Number: 186959  Batch Start Date: 08/14/13 13:00  Batch Analyst: Mihalcin, Jason A

Batch Method: 3050B  Batch End Date: 08/14/13 18:00

| Batch Notes | |
|---|---|
| Acid used for pH adjustment | 0000042514-08/13 |
| Balance ID | 24750836 |
| Filter Paper Lot Number | 400053 |
| Hydrogen peroxide lot number | 0000011847-7/8 |
| Lot # of hydrochloric acid | 0000040272-08/13 |
| Lot # of Nitric Acid | 0000042514-08/13 |
| Hood ID or number | 09 |
| Hot Block ID number | 01 |
| Oven, Bath or Block Temperature 1 | 95 Degrees C |
| Oven, Bath or Block Temperature 2 | 95 Degrees C |
| Pipette ID | MET-007 |
| Temperature | 95 Degrees C |
| ID number of the thermometer | mp1 |
| Digestion Tube/Cup Lot # | MF06LKK01 |
| Uncorrected Temperature | 95 Celsius |
| Uncorrected Temperature 2 | 95 Degrees C |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG No.:

Project: Griffiss AFB DP013 Bldg 255

| Client Sample ID | Lab Sample ID |
|---|---|
| B255SCS0704AA | 280-45026-1 |
| B255SCS0704AC | 280-45026-2 |
| B255SCS0708AA | 280-45026-3 |
| B255SCS0712AA | 280-45026-4 |
| B255SCS0804AA | 280-45026-5 |
| B255SCS0808AA | 280-45026-6 |
| B255SCS0812AA | 280-45026-7 |
| B255SCS0904AA | 280-45026-8 |
| B255SCS0908AA | 280-45026-9 |
| B255SCS0912AA | 280-45026-10 |
| B255SCS1004AA | 280-45026-11 |
| B255SCS1008AA | 280-45026-12 |
| B255SCS1012AA | 280-45026-13 |
| B255SCS1104AA | 280-45026-14 |
| B255SCS1108AA | 280-45026-15 |
| B255SCS1112AA | 280-45026-16 |
| B255SCS1116AA | 280-45026-17 |

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-45026-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 11/01/2009 00:00

| Analyte | Wavelength/ Mass | LOQ (%) | |
|---|---|---|---|
| Percent Moisture | | 0.1 | |
| Percent Solids | | 0.1 | |

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 08/13/2013 11:03 End Date: 08/13/2013 11:03

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | % Sol | Moist | | | | | | | | | | | | | | | | | | |
| 280-45026-1 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-1 DU | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-2 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-3 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-4 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-5 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-7 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-8 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-9 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-10 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-11 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-12 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-13 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-14 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-15 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-16 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |
| 280-45026-17 | 1 | T | 11:03 | X | X | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-45026-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 08/15/2013 11:22 End Date: 08/15/2013 11:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | % Sol | Moist | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| 280-45026-6 | 1 | T | 11:22 | X | X | | | | | | | | | | | | | | | | | | | |
| 280-45026-6 DU | 1 | T | 11:22 | X | X | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

# Wet Chemistry Data Review Checklist For Gravimetric Methods

**Test Name/Method #:** Moisture **Analysis Date:** 8/13/13

**SOP #:** DV-WC-0023 **Analyst:** Ian McKitrick **Instrument:** Balance

| Lot / Sample Numbers | | Matrix | Prep Batch | Batch | Method | Special Inst |
|---|---|---|---|---|---|---|
| 400-78399 | #1→10 | Solid | — | 186925 | — | — |
| 45141 | #1→3 | | | 〃 | | |
| 45360 | #1→6 | | | 186931 | | |
| 45204 | #1→12 | | | 〃 | | |
| 45385 | #1→5 | | | 〃 | | |
| 45342 | #1→11 | | | 186962 | | |
| 45299 | #1, 2 | ↓ | | 186965 | | |

| A. Balance, Oven, and DI Water QC Checks | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| 1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed? | ✓ | | | — |
| 2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed? | ✓ | | | — |
| 3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"? | | | ✓ | — |
| **B. Method Requirements** | | | | |
| 1. If sample is visibly oily, was this noted on the benchsheet? | | ✓ | | — |
| 2. Was final residue weight within minimum/maximum requirements? | ✓ | | | — |
| 3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour? | ✓ | | | — |
| **C. Sample Results** | | | | |
| 1. TDS/Conductivity ratio or historical data checked? | | | ✓ | — |
| 2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%? | | ✓ | | — |
| 3. Were sample analyses done within holding time? | ✓ | | | — |
| 4. Were special client requirements met? | ✓ | | | — |
| 5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units? | ✓ | | | — |
| 6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked? | ✓ | | | — |
| 7. STD/True Value information is updated and included? | | | ✓ | — |
| 8. Are raw data copies prepared, scanned, and uploaded? | | | ✓ | — |
| **D. Preparation/Matrix QC** | | | | |
| 1. Method blank < RL or all reported samples > 10 X RL? | | | ✓ | — |
| 2. Method blank < ½ RL or NCM provided? | | | ✓ | — |
| 3. LCS/LCSD run for batch and within QC limits? | | | ✓ | — |
| 4. DUP run for batch and RPD < 20% for samples >5 X RL? | ✓ | | | — |

**Analyst:** Ian McKitrick **Date:** 8/14/13

**Comments:**

**2nd Level Reviewer :** [signature] **Date:** 8/14/13

**Comments:**

*Revision 2.0*
*5/18/10*
*QA\Edit\FORMS\Data Review\Gravimetric Review Checklist*

**Test Name/ Method #:** Moisture **SOP #** DV-WC-0023

**Instrument:** Balence **Analyst:** Ian McKittrick **Analysis Date:** 8/13/13

| Lot / Sample Numbers | Matrix | Batch | Method | Special Inst |
|---|---|---|---|---|
| 45300 #1 | solid | 186966 | — | — |
| 45026 #1→17 | ↓ | 186980 | | |
| 45020 #1→26 | ↓ | 186989 | | |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture Analysis Date: 8/15/13

SOP #: DV-WC-0023 Analyst: Ian McKittrick Instrument: Balance

| Lot / Sample Numbers | Matrix | Prep Batch | Batch | Method | Special Inst |
|---|---|---|---|---|---|
| 45447 #1→6 | Solid | — | 187307 | — | — |
| 45457 #1→4 | | | " | | |
| 45470 #2→14 | | | " | | |
| 45459 #1→11 | | | " | | |
| 45398 #1→9 | | | 187333 | | |
| 45489 #1 | | | 187336 | | |
| | | | | | |

| A. Balance, Oven, and DI Water QC Checks | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| 1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed? | ✓ | | | ✓ |
| 2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed? | ✓ | | | ✓ |
| 3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"? | | | ✓ | ✓ |
| **B. Method Requirements** | | | | |
| 1. If sample is visibly oily, was this noted on the benchsheet? | | ✓ | | ✓ |
| 2. Was final residue weight within minimum/maximum requirements? | ✓ | | | ✓ |
| 3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour? | ✓ | | | ✓ |
| **C. Sample Results** | | | | |
| 1. TDS/Conductivity ratio or historical data checked? | | | ✓ | ✓ |
| 2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%? | | ✓ | | ✓ |
| 3. Were sample analyses done within holding time? | ✓ | | | ✓ |
| 4. Were special client requirements met? | ✓ | | | ✓ |
| 5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units? | ✓ | | | ✓ |
| 6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked? | ✓ | | | ✓ |
| 7. STD/True Value information is updated and included? | | | ✓ | ✓ |
| 8. Are raw data copies prepared, scanned, and uploaded? | | | ✓ | ✓ |
| **D. Preparation/Matrix QC** | | | | |
| 1. Method blank < RL or all reported samples > 10 X RL? | | | ✓ | ✓ |
| 2. Method blank < ½ RL or NCM provided? | | | ✓ | ✓ |
| 3. LCS/LCSD run for batch and within QC limits? | | | ✓ | ✓ |
| 4. DUP run for batch and RPD < 20% for samples >5 X RL? | ✓ | | | ✓ |

Analyst: Ian McKittrick Date: 8/16/13

Comments: For Batch 187357, scanning contained ID didn't remove samples from backlog, fixed sample ID by removing last 0(letter); exp "44224-A-1S-A" fixed as "44224-A-1S"

2nd Level Reviewer : Date: 8/16/13

Comments:

**Test Name/ Method #:** Moisture **SOP #** DV-WC-0023

**Instrument:** Balence **Analyst:** Jan McKittrick **Analysis Date:** 8/15/13

| Lot / Sample Numbers | Matrix | Batch | Method | Special Inst |
|---|---|---|---|---|
| 44424 #15, 28, 30, 36, 38 | solid | 187357 | — | — |
| 44417 #28 | ↓ | " | | |
| 44357 #40 | | " | | |
| 45497 #1 | | 187361 | | |
| 45393 #1-20 | | " | | |
| 45026 #6 | | " | | |

NS 8/16/13

# GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Batch Number: 186980  Batch Start Date: 08/13/13 11:03  Batch Analyst: McKittrick, Ian B

Batch Method: Moisture  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | DISH# | DishWeight | SampleMassWet | SampleMassDry | | |
|---|---|---|---|---|---|---|---|---|---|
| 280-45026-A-1 | B255SCS0704AA | Moisture | T | 1 | 1.32 g | 17.68 g | 15.17 g | | |
| 280-45026-A-1 DU | B255SCS0704AA | Moisture | T | 2 | 1.32 g | 17.64 g | 15.21 g | | |
| 280-45026-A-2 | B255SCS0704AC | Moisture | T | 3 | 1.32 g | 17.15 g | 14.78 g | | |
| 280-45026-A-3 | B255SCS0708AA | Moisture | T | 4 | 1.32 g | 17.25 g | 15.01 g | | |
| 280-45026-A-4 | B255SCS0712AA | Moisture | T | 5 | 1.34 g | 17.44 g | 15.50 g | | |
| 280-45026-A-5 | B255SCS0804AA | Moisture | T | 6 | 1.33 g | 17.48 g | 14.36 g | | |
| 280-45026-A-7 | B255SCS0812AA | Moisture | T | 7 | 1.35 g | 17.78 g | 15.96 g | | |
| 280-45026-A-8 | B255SCS0904AA | Moisture | T | 8 | 1.33 g | 17.28 g | 14.71 g | | |
| 280-45026-B-9 | B255SCS0908AA | Moisture | T | 9 | 1.33 g | 17.19 g | 14.87 g | | |
| 280-45026-A-10 | B255SCS0912AA | Moisture | T | 10 | 1.31 g | 17.06 g | 15.86 g | | |
| 280-45026-A-11 | B255SCS1004AA | Moisture | T | 11 | 1.34 g | 17.31 g | 14.85 g | | |
| 280-45026-A-12 | B255SCS1008AA | Moisture | T | 12 | 1.32 g | 17.25 g | 15.28 g | | |
| 280-45026-A-13 | B255SCS1012AA | Moisture | T | 13 | 1.30 g | 17.28 g | 15.14 g | | |
| 280-45026-A-14 | B255SCS1104AA | Moisture | T | 14 | 1.31 g | 17.12 g | 15.86 g | | |
| 280-45026-A-15 | B255SCS1108AA | Moisture | T | 15 | 1.31 g | 17.60 g | 15.19 g | | |
| 280-45026-A-16 | B255SCS1112AA | Moisture | T | 16 | 1.32 g | 17.43 g | 15.52 g | | |
| 280-45026-A-17 | B255SCS1116AA | Moisture | T | 17 | 1.34 g | 17.16 g | 15.35 g | | |

| Batch Notes | |
|---|---|
| Balance ID | H31422 No Unit |
| Date samples were placed in the oven | 8/13/13 |
| Oven Temp when samples are put in oven | 105 Degrees C |
| Time samples were place in the oven | 1125 |
| Date samples were removed from oven | 8/14/13 |
| Oven Temp when samples removed from oven | 105 Degrees C |
| Time Samples were removed from oven | 0815 |
| Oven ID | Moisture Oven |
| ID number of the thermometer | F |
| Uncorrected In Temperature | 105 Celsius |
| Uncorrected Out Temperature | 105 Celsius |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Batch Number: 186980  Batch Start Date: 08/13/13 11:03  Batch Analyst: McKittrick, Ian B

Batch Method: Moisture  Batch End Date:

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver  Job No.: 280-45026-1

SDG No.:

Batch Number: 187361  Batch Start Date: 08/15/13 11:21  Batch Analyst: McKittrick, Ian B

Batch Method: Moisture  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | DISH# | DishWeight | SampleMassWet | SampleMassDry | | |
|---|---|---|---|---|---|---|---|---|---|
| 280-45026-A-6 | B255SCS0808AA | Moisture | T | 23 | 1.32 g | 17.27 g | 15.61 g | | |
| 280-45026-A-6 DU | B255SCS0808AA | Moisture | T | 24 | 1.30 g | 17.30 g | 15.71 g | | |

| Batch Notes | |
|---|---|
| Balance ID | H31422 No Unit |
| Date samples were placed in the oven | 8/15/13 |
| Oven Temp when samples are put in oven | 105 Degrees C |
| Time samples were place in the oven | 1200 |
| Date samples were removed from oven | 8/16/13 |
| Oven Temp when samples removed from oven | 105 Degrees C |
| Time Samples were removed from oven | 0810 |
| Oven ID | Moisture Oven |
| ID number of the thermometer | F |
| Uncorrected In Temperature | 105 Celsius |
| Uncorrected Out Temperature | 105 Celsius |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

280-45026 Chain of Custody

# CHAIN OF CUSTODY RECORD

**COC#: _1_ SDG#: _ 294 Cooler ID#: _A_**

| | | |
|---|---|---|
| Ship to:<br>Elaine Walker<br>Test America Laboratories, Inc.<br>4955 Yarrow Street<br>Arvada, Colorado Tel: 303-736-0156 | Project Name: Griffiss AFB DP013 Building 255<br>Sampler Name: Joshua Wenzel | Send Results to:<br>Daniel Baldyga<br>FPM Remediations, Inc<br>584 Phoenix Drive<br>Rome, NY 13441<br>Phone: (315) 336-7721 Ext. 207 |
| Carrier: Test America courier. | Sampler Signature: | |

**Analyses requested**

| Field Sample ID | LocID | Date 2013 | Time | MATRIX | SMCODE | SACODE | SBD/SED | # of Containers | Metals: note 4 4 oz glass jar | SVOCs note 1, 8oz glass jar | Metals note 4 250 mL poly ($HNO_3$). | SVOCs note 1 1 L amber bottle | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B255SCS0704AA | B255SCS-7 | 7/29 | 1550 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0704AC | B255SCS-7 | 7/29 | 1550 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0708AA | B255SCS-7 | 7/29 | 1554 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0712AA | B255SCS-7 | 7/29 | 1600 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0804AA | B255SCS-8 | 7/29 | 1530 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0808AA | B255SCS-8 | 7/29 | 1535 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0812AA | B255SCS-8 | 7/29 | 1540 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS0904AA | B255SCS-9 | 7/29 | 1450 | SO | G | N | 0/0 | 2 | 1 | 1 | | | |
| B255SCS0908AA | B255SCS-9 | 7/29 | 1500 | SO | G | N | 0/0 | 2 | 1 | 1 | | | |
| B255SCS0912AA | B255SCS-9 | 7/29 | 1505 | SO | G | N | 0/0 | 2 | 1 | 1 | | | |
| B255SCS1004AA | B255SCS-10 | 7/29 | 1510 | SO | G | N | 0/0 | 1 | | 1 | | | |
| B255SCS1008AA | B255SCS-10 | 7/29 | 1515 | SO | G | N | 0/0 | 1 | | 1 | | | |
| B255SCS1012AA | B255SCS-10 | 7/29 | 1520 | SO | G | N | 0/0 | 1 | | 1 | | | |
| B255SCS1104AA | B255SCS-11 | 7/29 | 1345 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS1108AA | B255SCS-11 | 7/29 | 1347 | SO | G | N | 0/0 | 1 | 1 | | | | |

8-1-13 930

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B255SCS1112AA | B255SCS-11 | 7/29 | 1359 | SO | G | N | 0/0 | 1 | 1 | | | | |
| B255SCS1116AA | B255SCS-11 | 7/29 | 1430 | SO | G | N | 0/0 | 1 | 1 | | | | |

| |
|---|
| Sample Condition Upon Receipt at Laboratory: Cooler Temperature: |
| Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0 |
| Note 1: Total SVOCs: method SW8270D |
| Note 2: Total Pesticides: SW8081B |
| Note 3: Total VOCs: SW8260B |
| Note 4: Total Metals: SW6010C |

| | | | | | |
|---|---|---|---|---|---|
| #1 Released by: (Sig) | Date: | #2 Released by: (Sig) | Date: 7/30/13 | #3 Released by: (Sig) | Date: |
| Company Name: | Time: | Company Name: FPM | Time: 1330 | Company Name: | Time: |
| #1 Received by: (Sig) Daniel Baldyga | Date: | #2 Received by: (Sig) | Date: 8-1-13 | #3 Received by: (Sig) | Date: |
| Company Name: FPM | Time: | Company Name: TTD | Time: 930 | Company Name: | Time: |

**MATRIX**
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

**SMCODE**
B = Bailer
G = Grab.
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

**SACODE**
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

# Login Sample Receipt Checklist

Client: FPM Remediations Inc

Job Number: 280-45026-1

**Login Number: 45026**

**List Source: TestAmerica Denver**

**List Number: 1**

**Creator: Knauf, James R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Appendix F
# ProUCL Results

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **UCL Statistics for Uncensored Full Data Sets** | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | |
| 4 | Date/Time of Computation | 1/14/2014 3:58:40 PM | | | | | | | | | |
| 5 | From File | input B255 ProUCL.xls | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | **chromium** | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | **General Statistics** | | | | | | | | | | |
| 14 | Total Number of Observations | | | 22 | | | Number of Distinct Observations | | | 14 | |
| 15 | | | | | | | Number of Missing Observations | | | 0 | |
| 16 | Minimum | | | 3.9 | | | Mean | | | 12.36 | |
| 17 | Maximum | | | 27 | | | Median | | | 12 | |
| 18 | SD | | | 5.348 | | | Std. Error of Mean | | | 1.14 | |
| 19 | Coefficient of Variation | | | 0.433 | | | Skewness | | | 1.167 | |
| 20 | | | | | | | | | | | |
| 21 | **Normal GOF Test** | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | | | 0.887 | | | **Shapiro Wilk GOF Test** | | | | |
| 23 | 5% Shapiro Wilk Critical Value | | | 0.911 | | | Data Not Normal at 5% Significance Level | | | | |
| 24 | Lilliefors Test Statistic | | | 0.18 | | | **Lilliefors GOF Test** | | | | |
| 25 | 5% Lilliefors Critical Value | | | 0.189 | | | Data appear Normal at 5% Significance Level | | | | |
| 26 | **Data appear Approximate Normal at 5% Significance Level** | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | **Assuming Normal Distribution** | | | | | | | | | | |
| 29 | **95% Normal UCL** | | | | | | **95% UCLs (Adjusted for Skewness)** | | | | |
| 30 | 95% Student's-t UCL | | | 14.32 | | | 95% Adjusted-CLT UCL (Chen-1995) | | | 14.54 | |
| 31 | | | | | | | 95% Modified-t UCL (Johnson-1978) | | | 14.37 | |
| 32 | | | | | | | | | | | |
| 33 | **Gamma GOF Test** | | | | | | | | | | |
| 34 | A-D Test Statistic | | | 0.682 | | | **Anderson-Darling Gamma GOF Test** | | | | |
| 35 | 5% A-D Critical Value | | | 0.746 | | | Detected data appear Gamma Distributed at 5% Significance Level | | | | |
| 36 | K-S Test Statistic | | | 0.175 | | | **Kolmogrov-Smirnoff Gamma GOF Test** | | | | |
| 37 | 5% K-S Critical Value | | | 0.186 | | | Detected data appear Gamma Distributed at 5% Significance Level | | | | |
| 38 | **Detected data appear Gamma Distributed at 5% Significance Level** | | | | | | | | | | |
| 39 | | | | | | | | | | | |
| 40 | **Gamma Statistics** | | | | | | | | | | |
| 41 | k hat (MLE) | | | 5.682 | | | k star (bias corrected MLE) | | | 4.938 | |
| 42 | Theta hat (MLE) | | | 2.175 | | | Theta star (bias corrected MLE) | | | 2.503 | |
| 43 | nu hat (MLE) | | | 250 | | | nu star (bias corrected) | | | 217.3 | |
| 44 | MLE Mean (bias corrected) | | | 12.36 | | | MLE Sd (bias corrected) | | | 5.562 | |
| 45 | | | | | | | Approximate Chi Square Value (0.05) | | | 184.2 | |
| 46 | Adjusted Level of Significance | | | 0.0386 | | | Adjusted Chi Square Value | | | 181.9 | |
| 47 | | | | | | | | | | | |
| 48 | **Assuming Gamma Distribution** | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | | | 14.58 | | | 95% Adjusted Gamma UCL (use when n<50) | | | 14.76 | |
| 50 | | | | | | | | | | | |
| 51 | **Lognormal GOF Test** | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | | | 0.918 | | | **Shapiro Wilk Lognormal GOF Test** | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | 5% Shapiro Wilk Critical Value | | | | | 0.911 | Data appear Lognormal at 5% Significance Level | | | | | |
| 54 | Lilliefors Test Statistic | | | | | 0.204 | **Lilliefors Lognormal GOF Test** | | | | | |
| 55 | 5% Lilliefors Critical Value | | | | | 0.189 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | **Data appear Approximate Lognormal at 5% Significance Level** | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | **Lognormal Statistics** | | | | | | | | | | | |
| 59 | Minimum of Logged Data | | | | | 1.361 | Mean of logged Data | | | | | 2.424 |
| 60 | Maximum of Logged Data | | | | | 3.296 | SD of logged Data | | | | | 0.452 |
| 61 | | | | | | | | | | | | |
| 62 | **Assuming Lognormal Distribution** | | | | | | | | | | | |
| 63 | 95% H-UCL | | | | | 15.16 | 90% Chebyshev (MVUE) UCL | | | | | 16.15 |
| 64 | 95% Chebyshev (MVUE) UCL | | | | | 17.83 | 97.5% Chebyshev (MVUE) UCL | | | | | 20.16 |
| 65 | 99% Chebyshev (MVUE) UCL | | | | | 24.74 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | **Nonparametric Distribution Free UCL Statistics** | | | | | | | | | | | |
| 68 | **Data appear to follow a Discernible Distribution at 5% Significance Level** | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | **Nonparametric Distribution Free UCLs** | | | | | | | | | | | |
| 71 | 95% CLT UCL | | | | | 14.23 | 95% Jackknife UCL | | | | | 14.32 |
| 72 | 95% Standard Bootstrap UCL | | | | | 14.23 | 95% Bootstrap-t UCL | | | | | 14.9 |
| 73 | 95% Hall's Bootstrap UCL | | | | | 15.55 | 95% Percentile Bootstrap UCL | | | | | 14.32 |
| 74 | 95% BCA Bootstrap UCL | | | | | 14.41 | | | | | | |
| 75 | 90% Chebyshev(Mean, Sd) UCL | | | | | 15.78 | 95% Chebyshev(Mean, Sd) UCL | | | | | 17.33 |
| 76 | 97.5% Chebyshev(Mean, Sd) UCL | | | | | 19.48 | 99% Chebyshev(Mean, Sd) UCL | | | | | 23.7 |
| 77 | | | | | | | | | | | | |
| 78 | **Suggested UCL to Use** | | | | | | | | | | | |
| 79 | 95% Student's-t UCL | | | | | 14.32 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) | | | | | | | | | | | |
| 83 | and Singh and Singh (2003). However, simulations results will not cover all Real World data sets. | | | | | | | | | | | |
| 84 | For additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |